





# Intent to Respond

**REF: RFP #16-059, Design/Build of Expandable Speculation Shell Building**

If your company intends to respond to this solicitation, please complete and promptly return this form to assure that you can be included on the mailing list to receive all addenda regarding this project.

It is not necessary to return any other portion of the bid documents if you are not bidding.

Failure to return the Intent to Respond shall not be sufficient cause to rule a submittal as non-responsive; nor does the return of the form obligate an interested party to submit a response. Georgetown County's efforts to directly provide interested parties with addenda or additional information are provided as a courtesy only, and do not alleviate the respondent from their obligation to verify they have received and considered all addenda. All addenda are published and available on the county website at [www.gtcounty.org](http://www.gtcounty.org) select Quick Links, "Bid Opportunities" and "Current Bids."

Our firm **does** intend on responding to this solicitation.

Our firm **does not** intend on responding to this solicitation.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone: \_\_\_\_\_

FAX: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Reason if **not** responding: \_\_\_\_\_

**Please return this completed form to Nancy Silver, Senior Buyer**

- by e-mail to [purch@gtcounty.org](mailto:purch@gtcounty.org)
- or by FAX to (843)545-3500.

[End of Intent to Respond]

**Time Line: Invitation for Bid #16-059**

Item	Date	Time	Location*
<b>Advertised Date of Issue:</b>	Friday, August 5, 2016	n/a	n/a
<b>Pre-Bid Conference &amp; Site Inspection:</b>	Voluntary-On Own	n/a	n/a
<b>Inquiry Cut-Off Time:</b>	Wednesday, August 24, 2016	3:00PM ET	Suite 239
<b>Bids Must be Received on/or Before:</b>	Wednesday, August 31, 2016	3:00PM ET	Suite 239
<b>Public Bid Opening &amp; Tabulation:</b>	Wednesday, August 31, 2016	3:00PM ET	Suite 239
<b>Interviews:</b>	Friday, September 9, 2016	TBD	TBD
<b>County Council Review:</b>	Tuesday, September 27, 2016	5:30PM ET	Council Chambers
<b>Target Notice to Proceed (NTP):</b>	Monday, October 17, 2016	n/a	n/a

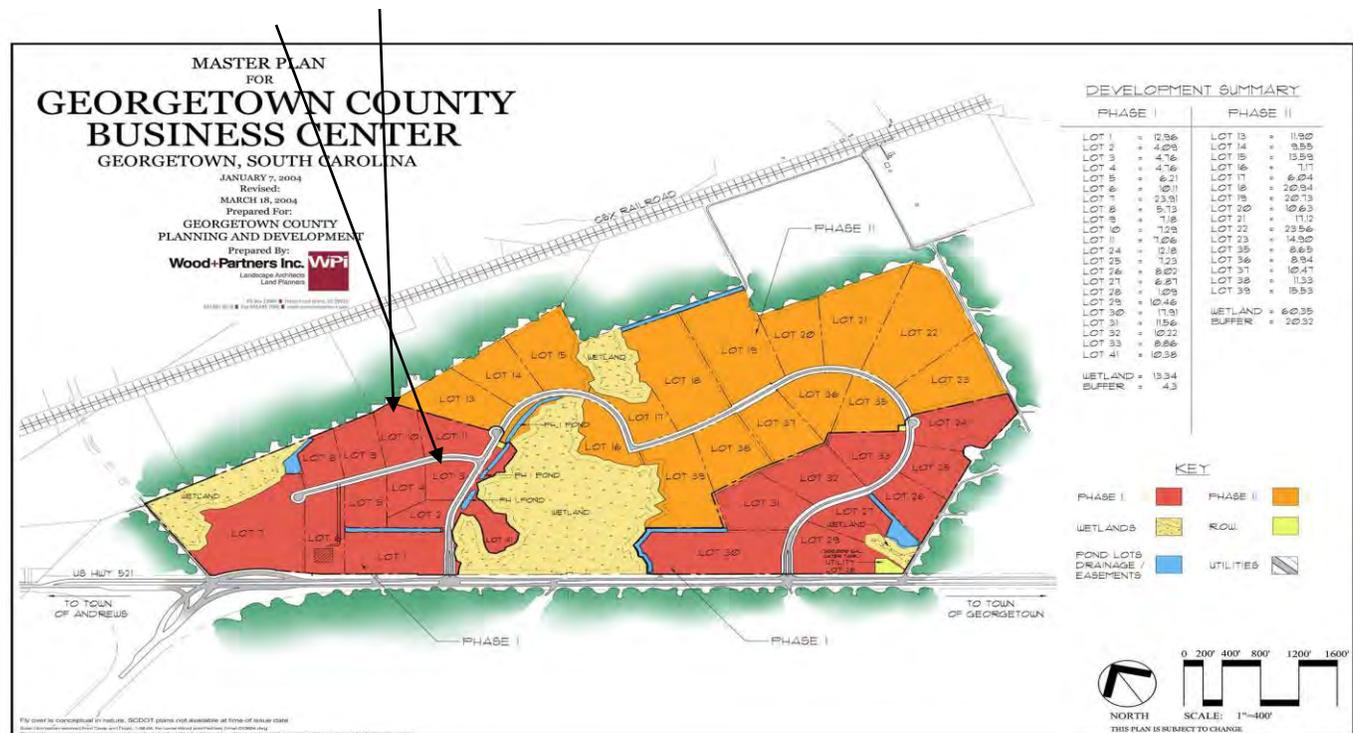
\*All locations in the Old County Courthouse, 129 Screven Street, Georgetown, SC unless otherwise stated.

**Request for Proposal (RFP)  
Bid #16-059  
Design/Build of Expandable Speculation Shell Building**

**INTRODUCTION**

The Georgetown County, South Carolina Economic Development Commission is soliciting sealed, public Request for Proposals (RFP) for the Design and Building of an Expandable Speculation Shell Building on an already cleared and graded lot #3, TMS 02-0416-035-06-02, and the clearing and grading only of lot #10, TMS 02-0416-035-06-00. A 60,000 square/foot shell building is to be placed on the previously cleared and graded lot #3 in the Georgetown County Business Park (shown below), 259 Technology Drive, located approximately 1½ miles east of the Town of Andrews on the northern side of Highway 521. Plans shall include floor plans, site plans, all elevations, and provisions for how mechanical services are to be brought into the building. Since there is no knowledge of the type of company who may wish to occupy this structure, final interior design will not be made at this time. Lot #10 will need to be cleared and brought up to grade in preparation for future building expansions but no speculation shell building will be constructed on that lot at this time.

**PHASE 1, LOT 3 & LOT 10**



## **CRITERIA FOR SELECTION**

- 1) Evaluation: All proposals received from contractors will be reviewed and evaluated by a committee who will recommend for selection the proposal that most closely meets the requirements of the RFP and satisfies the County of Georgetown.
- 2) Evaluation Consideration: The following areas of consideration will be used in making the selection:
  - a) Understanding of the Problem: This refers to the contractor's understanding of Georgetown County's needs that generated the RFP, the agency's objectives in asking for the services, and the nature and scope of the work to be performed.
  - b) Contractor Qualifications: This refers to the ability of the contractor to meet the terms of the RFP.
  - c) Professional Personnel: This refers to the competence of professional personnel who would be assigned to the project by the contractor. Qualifications of professional personnel will be measured by experience and education, with particular attention to experience related to services requested in the RFP. The qualifications of the project manager will be emphasized.
  - d) Timeline: Each contractor will be evaluated on the timeline they identify to complete the project.
  - e) Cost: While not the only or sole deciding factor in the selection process, this area will be carefully considered and include such measures as cost control measures instituted by the contractor.

## **REQUIREMENTS AND SPECIFICATIONS:**

- 1) All wind loads will be submitted by the building manufacture, and must meet or exceed local code requirements.
- 2) Photographic examples of prior work completed must be included in proposal to be considered for award.
- 3) Drawings must include the following aspects:
  - a) Architectural Design (drawings)
  - b) Floor-Plan
  - c) Site Plan, also to indicate how expansion will be handled.
  - d) All Elevations, including one color rendition of the front building elevation.
  - e) Foundation Plans
  - f) Indicate how mechanical services (electrical, HVAC, foundation, and plumbing) are to be brought into the building.
- 4) Minimum Technical Requirements:
  - a) Building Code: International Building Code for commercial structure ( 2012 Version)
  - b) Minimum Floor Space: 60,000 square feet, with provisions for expansion to 100,000 square feet.
  - c) Minimum Clear Height: 24 feet (to bottom of eaves)
  - d) Number of Stories: 1
  - e) Framing: Pre-engineered Steel
  - f) Walls: Pre-stressed or Stand-up Concrete, Brick or Block
  - g) Roof Standing seam
  - h) Minimum Bays: 40 feet x 30 feet
  - i) Floor: 1,000 square feet of concrete slab placed inside building accessible from the front doors
  - j) Site work: Site and expansion pad grading-lot 10.
  - k) Access: 12' access drive and 5 parking spaces leading to front door 6" base course and 2" Type 1 asphalt with no curb and gutter.
  - l) Doorways:
    - one (1) glass double man door
    - one (1) hollow metal single man door at rear

- one (1) metal roll-up loading dock door at rear minimum size 9' x 10'
  - one (1) 12' x 14' on-grade roll-up door
  - two (2) OPTIONAL additional roll-up loading dock door at rear minimum size 9' x 10'
- m) Loading Dock: should not be sloped, but level with ground elevation so trailer loads do not shift when backing to approach. Additional roll-up doors above will also necessitate widening of dock and paved approach to accommodate additional doors.
- n) Landscaping: Grassing of disturbed areas
- o) Electrical Service: The required electrical service should only be what the contractor will require for construction.
- p) Provision should include a small exhaust fan and intake louver to lessen humidity buildup inside the structure.
- q) Other Utilities: None at all
- r) Exterior walls are to be insulated and the contractor must denote the R-factor for all insulation to be used.
- s) Glasswork will be insulated with specifications provided.
- t) Warranty: 5 year minimum
- u) Painting: None required
- v) Glasswork: 40' wide and 10' high glass on each side of front corner of building (the front door will be placed within the glass on front of building)
- w) Building elevation is at the discretion of the submitter.
- x) Visibility of the roof and /or use of parapet walls is a design function and is at the discretion of the submitter.
- y) Prior foundation exploration engineering studies and analysis have been completed. See copy of report attached. Any additional geo-technical work that may be needed will be at the expense of the contractor awarded the bid.
- z) A Certificate of Occupancy (C/O) is not required for owner acceptance.
- aa) The contractor will be responsible for disposal of any and all removed, unused and surplus materials and any fees and transportation costs associated with the disposal.
- bb) It shall be the responsibility of the contractor to comply with County Ordinances by securing the necessary permits. Building contractors working within Georgetown County must secure a Contractor's License from the Building Department. This is outside the Georgetown City Limits and so does not require a City Business License.

5) **BID SECURITY:**

- a) The successful offeror must provide a Performance Bond from a surety company qualified to do business under the laws of the State of South Carolina in the amount of 100 percent (100%) of the contract amount, within fifteen (15) days after receipt of written notice of formal award of the Contract. Pricing for such Performance Bond should be indicated separately on the Vendor Bid Submission Form.
- b) Each bid must be accompanied by a Bid Bond, or by a certified check payable to Georgetown County, SC, for an amount equal to five per-cent (5%) of the total base bid as a guarantee that if the bid is accepted, the required Contract will be executed within fifteen (15) days after receipt of written notice of formal award of Contract. Bids not including such a bid bond will not be considered. Bid Bonds will be returned to unsuccessful vendors after award of Bid.
- c) The successful offeror must provide a Payment and Material Bond from a surety company qualified to do business under the laws of the State of South Carolina in the amount of 100 percent (100%) of the contract amount, within fifteen (15) days after receipt of written notice of formal award of Contract.
- d) Offerors may use underwriter's standardized forms or offerors may request blank bond forms from the County.

- 6) **PROPERTY:** Lot # 3 is approximately 9.46 acres. Lot #10 is approximately 7.35 acres. Both properties are part of the overall Georgetown County Business Park located on Highway 521, approximately 1 ½ miles east of the Town of Andrews, SC.
- 7) **SCHEDULE:** Bid proposals must be submitted to Georgetown County following the timeline on the top of page three (3). One copy of the Bid proposal shall be submitted. Selection of the Design/Build Team is expected by the end of September 2016, and execution of a contract is expected by October 2016. Georgetown County expects the building to be complete and ready for sale by October 2017.
- 8) **SCOPE OF WORK:**
- a) Perform the professional design of the Shell Building project, prepare Technical Specifications and Construction Drawings to include an aesthetically pleasing exterior, and obtain all pertinent Permits.
  - b) Design/Construct the Shell Building on lot 3 in accordance with the approved Technical Specifications, Construction Drawings, and Building Permits.
  - c) Agree, at Georgetown County's option, to provide up to 4 preliminary up-fit plans and associated cost information for prospective buyers and tenants within 72 hours of receiving a request from Georgetown County.
  - d) Clear the area of trees and stumps on lot 10 and perform the necessary grading to prepare the site to be pad ready for possible future building placement.
- 9) **CONTENTS OF PROPOSAL SUBMITTAL:**
- a) The Design/Build Team's general credentials outlining experience with similar projects. Standard Forms SF 254 & 255 shall be included for each architectural and engineering firm on the team. AIA Form A305 shall be included for each general contracting firm on the team
  - b) The credentials and experience of the individual proposed team members who would be directly involved in the project.
  - c) A summary of the team's project organizational chart
  - d) A statement relative to the team's capability to perform the project from a financial and manpower viewpoint.
  - e) A list of three (3) references for every firm proposed as part of the team.
  - f) A list of three (3) design/build projects similar in size and complexity to the proposed building.
  - g) A color site plan drawing and a color front elevation drawing of the team's preliminary Shell Building conceptual design on lot #3. Include a separate diagram incorporating the grading of lot #10 to reflect future placement.
  - h) Schedule of work.
  - i) A statement on any marketing assistance provided by the contractor for the Shell Building.
- 10) **EVALUATION OF BID PROPOSALS**
- Proposals will be evaluated by Georgetown County using the following evaluation system:
- a) Demonstrated experience of the Design/Build team with similar projects.
  - b) Qualifications of the proposed project team members.
  - c) Price and completion date estimates.
- 11) Georgetown County reserves the right to accept or reject any or all proposals, to waive any or all informalities or irregularities, and to determine the team which in Georgetown County's judgment best serves Georgetown County's purposes. Georgetown County also reserves the right to negotiate the terms of the contract with the selected team.
- 12) **FINANCING:** Georgetown County plans to finance this Shell Building using its own funds.

13) **ATTACHMENTS:**

- a) Master Plans for Georgetown County Business Center-pg. 31
- b) Shell Building Site Location-Lot #3-pg. 32
- c) Clearing & Grading Site Location-Lot #10-pg. 33
- d) Geotechnical Soil Boring Analysis-pg. 34-60

14) **SITE INSPECTION:**

- a) Each bidder is responsible to become familiar with and take into consideration, site conditions which may affect the work and to check all dimensions at the site. Further, each bidder shall acquaint themselves thoroughly as to the character and nature of the work to be done. Each bidder furthermore shall make a careful examination of the site of the work and inform themselves fully as to the difficulties to be encountered in performance of the work, the facilities for delivering, storing and placing materials and equipment and other conditions relating to construction and labor.
- b) The bidder shall examine the premises and the site and compare them with any applicable drawings and specifications. He/she shall familiarize themselves with the existing conditions such as obstructive area levels and any problems related to erecting the required systems.
- c) No plea of ignorance of conditions that exist or may hereafter exist on the site of the work, or difficulties that may be encountered in the execution of the work, as a result of failure to make necessary investigations and examinations, will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill in every detail all the requirements of the contract documents and to complete the work for the consideration set forth therein, or as a basis for any claim whatsoever.

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**Instructions for Bidders**  
**Bid #16-059**  
**Design/Build of Expandable Speculation Shell Building**

1. **Submission of Questions**

Questions must be submitted in writing via electronic mail, facsimile or postal mail to the Issuing Officer no later than the “Deadline for Questions” cutoff identified in the Bid Timeline on page three (3) in order to generate an official answer. All written questions will receive an official written response from the Georgetown County Purchasing Office (GCPO) and will become addenda to the solicitation.

GCPO reserves the right to reject or deny any requests made by the provider.

Impromptu, unwritten questions are permitted and verbal answers may be provided, but are only intended as general direction and will not represent the official GCPO position. The only official position of GCPO is that which is stated in writing and issued in the solicitation as addenda thereto.

No other means of communication, whether oral or written, shall be construed as a formal or official response/statement and may not be relied upon. SEND QUESTIONS TO:

Nancy Silver, Senior Buyer  
Post Office Box 421270, Georgetown, SC 29442-4200  
Fax: (843) 545-3500  
Email: [nsilver@gtcounty.org](mailto:nsilver@gtcounty.org)

2. Written sealed public bids for a Term Contract to provide the **Design/Build of Expandable Speculation Shell Building** shall be received in the Purchasing Office, Second Floor, Suite 239, 129 Screven Street, Georgetown, SC until the cut-off time shown in the bid timeline on page three (3) of this document. Bids will then be publicly and promptly opened at the designated time by the Purchasing Officer. Bids that are not in the Purchasing Officer’s possession prior to the stated opening date and time will be considered **NON RESPONSIVE** and returned unopened. An official authorized to bind the offer must sign all proposals submitted.

3. **IMPORTANT OFFEROR NOTES:**

1. Bid Number & Title must be shown on the **OUTSIDE** of the delivery package.
2. Federal Express does **NOT** guarantee delivery to Georgetown, SC before 4:30 PM Eastern Time on Next Day Service.
3. UPS WILL guarantee delivery to Georgetown, SC before 10:30 AM Eastern Time on Next Day “Early AM” Service.

4. **Incident Weather/Closure of County Courthouse**

If the County Courthouse is closed for business at the time scheduled for bid opening, for whatever reason, sealed bids will be accepted and opened on the next scheduled business day, at the originally scheduled time.

5. This solicitation does not commit Georgetown County to award a contract, to pay any cost incurred in the preparation of the bid, or to procure or contract for goods or services. It is the responsibility of each bidder to see that the Georgetown County Purchasing Office receives bids on, or before, the date and time specified for the bid opening. No bid will be accepted thereafter. The County assumes no

responsibility for delivery of bids that are mailed. Georgetown County reserves the right to reject any or all bids and to waive any informalities and technicalities in the bid process.

6. One (1) unbound, reproducible ORIGINAL of your proposal must be submitted in a sealed envelope and clearly marked on the outermost container as follows:

**OFFEROR'S NAME**  
**BID ITEM NAME**  
**BID NUMBER**

7. No Bidder may submit more than one bid. Multiple bids for different manufacturers but represented by the same firm will not be accepted. Bids offered directly from manufacturers shall indicate if a local dealer/representative will be involved.

8. Definitions:

- a) The terms "Proposer", "Offeror", "Vendor" or "Bidder" refer to those parties who are submitting sealed responses for the work set forth in this document to the OWNER, as distinct from a sub-bidder who provides a bid to the Bidder. The term "Contractor" refers to the successful Bidder.
- b) The term "Design/Build of Expandable Speculation Shell Building" or "Design/Build" refers to the **complete set of services** as specified in this document, in every aspect.
- c) The terms "Owner" and "County" refer to the County of Georgetown, South Carolina.
- d) Where the words "shall" or "must" are used, it signifies an absolute minimum function or capacity that, if not satisfied, may result in disqualification.
- e) Where the words "should", "may", or "is desirable" are used, it signifies desirable, but not mandatory functions or capacities. Bidders who are able to provide these functions or capacities may be evaluated more favorably than those who cannot.

9. Correction or Withdrawal of Bids; Cancellation of Awards

An offeror must submit in writing a request to either correct or withdraw a bid to the Procurement Officer. Each written request must document the fact that the offeror's mistake is clearly an error that will cause him substantial loss.

- a) Correction of awards : An offeror shall not be permitted to correct a bid mistake after bid opening that would cause such offeror to have the low bid unless the mistake in the judgment of the Procurement Officer is clearly evident from examining the bid document; for example, extension of unit prices or errors in addition.
- b) Cancellation of awards prior to performance: When it is determined after an award has been issued but before performance has begun that Georgetown County's requirements for the goods or services have changed or have not been met, the award or contract may be canceled and either reawarded or a new solicitation issued.

10. Faxed or E-mailed bids will not be accepted by Georgetown County.

11. If you need any reasonable accommodation for any type of disability in order to participate in this procurement, please contact the purchasing office as soon as possible.

12. Title VI of the Civil Rights Act of 1964: Georgetown County hereby gives public notice that it is the policy of the agency to assure full compliance with Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, Executive Order 12898 on Environmental Justice, and related statutes and regulations in all programs and activities. Title VI requires that no person in the United States of America shall, on the grounds of race, color, or national origin, be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which Georgetown County receives federal financial assistance. Any person who believes they have been aggrieved by an unlawful discriminatory practice under Title VI has a right to file a formal complaint with Georgetown County. Any such complaint must be in writing and filed with Georgetown County's Title VI Coordinator within one hundred and eighty (180) days following the date of the alleged discriminatory occurrence. For more information, or to obtain a Title VI Discriminatory Complaint Form, please see our website at <http://www.gtcountry.org/about/faqs.html>.
13. Any deviations from the specifications or modification of this bid and any extra or incidental work or reductions in work shall be set forth in writing and signed by both parties prior to making such change. Any increase or decrease in the bid price resulting from such change shall be included in writing.
14. Exceptions: The bidder shall list on a separate sheet of paper any variations from, or exceptions to, the conditions and specifications of this bid. This sheet shall be labeled "Exception(s) to Bid Conditions and Specifications," and shall be attached to the bid. When Proposers find instances where they must take exception with certain requirements or specifications of the bid, all exceptions shall be clearly identified. Written explanations shall include the scope of the exceptions, the ramifications of the exceptions for the County of Georgetown, and a description of the advantage to be gained or disadvantages to be incurred by the County as a result of these exceptions. If none, write "NONE".
15. Georgetown County reserves the right to reject any or all bids, and to waive as an informality any irregularities contained in any bid as may be deemed in the best interest of the County. Georgetown County further reserves the right to reject any bid submitted, at its sole option, that the vendor may not be able to meet the service requirements of the bid.
16. Publicity releases: contractor agrees not to refer to award of any resulting contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the user.
17. Material Safety Data Sheets: The County of Georgetown will not receive any materials, products, or chemicals which may be hazardous to an employee's health unless accompanied by a Material Data Sheet when received.
18. Ownership of Copyright: All right, title and interest in all copyrightable materials which vendor shall create in the performance of its obligations hereunder shall be the property of the procurer. Vendor agrees to assign and hereby does assign any and all interest it has in and to such material to procurer. Vendor agrees, upon the request of procurer to execute all papers and perform all other such acts necessary to assist procurer to obtain and register copyrights on such materials. Where applicable, works of authorship created by the vendor in the performance of its obligations hereunder, shall be considered "works for hire" as defined in the U.S. Copyright Act.
19. Ownership of Documents: Any reports, studies, photographs, negatives or other documents prepared by vendor in the performance of its obligations shall be the exclusive property of the procurer and all such material shall be remitted to the procurer by the vendor upon completion, termination or cancellation of this order. Vendor shall not use, willingly allow or cause to have such material used for any purpose

other than performance of its obligations under this order without the prior written consent of the procurer.

20. **Affirmative Action:** The contractor will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without regard or discrimination by reason of age, race, color, religion, sex, national origin or physical handicap. The following are incorporated herein by reference: 41 C.F.R. 60-1.4, 60-250.4 and 60-741.4.
21. Inclusion and participation of disadvantaged, small, and local business entities is strongly encouraged, but minimum participation standards are not in effect for this project.
22. All Construction Contracts Over \$2,000:
  - a) Davis-Bacon Requirements. These contracts need to include a provision for compliance with the Davis-Bacon Act (40 USC 276a to a—7) and the Department of Labor implementing regulations (29 CFR Part 5). Under this Act, Contractors are required to include the contract provisions in Section 5.5 (a) of 29 CFR Part 5, and to pay wages to laborers and mechanics at a rate not less than the minimum wages specified in the wage determination made by the Secretary of Labor. In addition, Contractors shall be required to pay wages not less than the minimum wages specified in the wage determination made by the Secretary of Labor. In addition, Contractors shall be required to pay wages not less often than once a week. **Current Wage Determination for Georgetown County in South Carolina is available on-line at: <http://www.wdol.gov/dba.aspx#14>**
  - b) Contract Work Hours and Safety Standard Act Requirements. The contracts must include a provision for compliance with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 USC 327-330) as supplemented by the Department of Labor regulations (29 CFR Part 5). Under Section 103 of the Act, each Contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible provided that the worker is compensated at a rate not less than one times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. Section 107 of the Act is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to health and safety as determined under construction, safety and health standards promulgated by the Secretary of Labor. These requirements do not apply to the purchases of supplies, materials, or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
  - c) Copeland “Anti-Kickback” Act Requirements. All construction contracts over \$2,000.00 must include a provision for compliance with the Copeland “Anti-Kickback” Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3). This act provides that each Contractor shall be prohibited from inducing, by any means, persons employed in the construction, completion, or repaid of public work to give up any part of their compensation.
23. Bidders must clearly mark as "confidential" each part of their bid which they consider to be proprietary information that could be exempt from disclosure under section 30-4-40, Code of Laws of South Carolina 1976, as amended (Freedom of Information Act). If any part is designated as confidential, there must be attached to that part an explanation of how this information fits within one or more categories listed in section 30-4-40. The County reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against the County or its agents for its determination in this regard.

24. CERTIFICATION REGARDING DRUG-FREE WORKPLACE:

The contractor certifies that the vendor(s) will provide a “drug-free workplace” as that term is defined in Section 44-107-30 of the Code of Laws of South Carolina, 1976, as amended, by the complying with the requirements set forth in title 44, Chapter 107.

25. Certification of Non-Segregated Facilities

The federally-assisted construction contractor certifies that he does not maintain or provide, for his employees, any segregated facilities at any of his establishments and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally-assisted construction contractor certifies that he will not maintain or provide, for his employees, segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this Contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The federally assisted construction contractor agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that he will retain such certifications in his files.

26. Nothing herein is intended to exclude any responsible vendor, his product or service or in any way restrain or restrict competition. On the contrary, all responsible vendors are encouraged to bid and their bids are solicited.

27. Acknowledgement of Addenda

Each contractor is responsible to verify the number of total addenda issued prior to bid. **Failure to acknowledge all addenda may disqualify the bidder.** All addenda are posted by the County at the website located at [www.georgetowncountysc.org](http://www.georgetowncountysc.org), select “Purchasing” and “Current Bids”. It is each proposer’s responsibility to verify that all addenda have been received and acknowledged.

28. This Invitation for Bid covers the estimated requirements to provide **Design/Build of Expandable Speculation Shell Building** for the Georgetown County Economic Development Department. The purpose is to establish a Term Contract with firm pricing and delivery under which the department may proceed.

29. TERMS OF AGREEMENT / RENEWAL

The initial term of any resulting contract shall be for a period of one (1) calendar year, effective from date of contract award. The County reserves the right to negotiate with the successful bidder, after contract award, for an additional discount should available funds permit the purchase of additional units within the fiscal year. The County reserves the right, at its sole option, to renew the contract for four (4) additional consecutive terms, contingent upon satisfactory performance in the prior period, not to exceed a maximum term of five (5) years total.

30. PRICE ESCALATION/DE-ESCALATION:

Prices are to remain firm for the first contract period. In subsequent terms, the contractor may request, in writing at least sixty (60) days in advance of the contract ending date, an increase/decrease. Should the County elect to exercise the option to renew the contract for additional year(s), the contract prices for the additional years shall not exceed the percentage increase/decrease of the "Services" category of the CPI-W SECTION OF THE COMSUMER PRICE INDEX of the United States Bureau of Labor Statistics for the latest twelve month for which statistics are available. Should the price change be granted and the County elects to renew the contract, the purchase order will reflect the changes.

31. Bids must be made on Proposal or Bid Form furnished or will be rejected. Proposals shall be typewritten or written in ink on the form prepared by the County. The person signing the bid shall initial all corrections or erasures.

32. Insurance

The successful bidder shall procure, maintain, and provide proof of, insurance coverage for injuries to persons and/or property damage as may arise from or in conjunction with, the work performed on behalf of the County by the bidder, his agents, representatives, employees or subcontractors. Proof of coverage as contained herein shall be submitted fifteen (15) days prior to the commencement of work and such coverage shall be maintained by the bidder for the duration of the contract period; for occurrence policies.

a. General Liability

Coverage shall be as broad as: Comprehensive General Liability endorsed to include Broad Form, Commercial General Liability form including Products/Completed Operations.

1. Minimum Limits

General Liability:

- \$1,000,000 General Aggregate Limit
- \$1,000,000 Products & Completed Operations
- \$1,000,000 Personal and Advertising Injury
- \$1,000,000 Each Occurrence Limit
- \$50,000 Fire Damage Limit
- \$5,000 Medical Expense Limit

b. Automobile Liability

Coverage sufficient to cover all vehicles owned, used, or hired by the bidder, his agents, representatives, employees or subcontractors.

1. Minimum Limits

Automobile Liability:

- \$1,000,000 Combined Single Limit
- \$1,000,000 Each Occurrence Limit
- \$5,000 Medical Expense Limit

c. Workers' Compensation

Limits as required by the Workers' Compensation Act of SC. Employers Liability, \$1,000,000.

d. Owners' & Contractors' Protective Liability

Policy will be in name of County. Minimum limits required are \$1,000,000.

e. Professional Liability

Minimum limits are \$1,000,000 per occurrence.

f. Coverage Provisions

1. All deductibles or self-insured retention shall appear on the certificate(s).
2. The County of Georgetown, its officers/ officials, employees, agents and volunteers shall be added as "additional insured" as their interests may appear. This provision does not apply to Professional Liability or Workers' Compensation/Employers' Liability.
3. The offeror's insurance shall be primary over any applicable insurance or self-insurance maintained by the County.
4. Shall provide 30 days written notice to the County before any cancellation, suspension, or void of coverage in whole or part, where such provision is reasonable.
5. All coverage for subcontractors of the bidder shall be subject to all of the requirements stated herein.
6. All deductibles or self-insured retention shall appear on the certificate(s) and shall be subject to approval by the County. At the option of the County, either; the insurer shall reduce or eliminate such deductible or self-insured retention; or the bidder shall be required to procure a bond guaranteeing payment of losses and related claims expenses.
7. Failure to comply with any reporting provisions of the policy(s) shall not affect coverage provided the County, its officers/officials, agents, employees and volunteers.
8. The insurer shall agree to waive all rights of subrogation against the County, its' officers/officials, agents, employees or volunteers for any act, omission or condition of premises which the parties may be held liable by reason of negligence.
9. The bidder shall furnish the County certificates of insurance including endorsements affecting coverage. The certificates are to be signed by a person authorized by the insurance company(s) to bind coverage on its' behalf, if executed by a broker, notarized copy of authorization to bind, or certify coverage must be attached.
10. All insurance shall be placed with insurers maintaining an A.M. Best rating of no less than an A:VII. If A.M. Best rating is less than A:VII, approval must be received from County's Risk Officer.

33. Builders' Risk Insurance

Contractor shall provide and maintain, during the progress of the work and until execution of the Certificate of Contract Completion, a Builder's Risk Insurance policy to cover all work in the course of construction including false work, temporary buildings, scaffolding, and materials used in the construction process (including materials designated for the project but stored off site or in transit). The coverage shall equal the total completed value of the work and shall provide recovery at replacement cost.

- a) Such insurance shall be on a special cause of loss form, providing coverage on an open perils basis insuring against the direct physical loss of or damage to covered property, including but not limited to theft, vandalism, malicious mischief, earthquake, tornado, lightning, explosion, breakage of glass, collapse, water damage, and testing/startup.
- b) Coverage shall include coverage for "soft costs" (costs other than replacement of building materials) including, but not limited to, the reasonable extra costs of the architect/engineer and reasonable Contractor extension or acceleration costs. This coverage shall also include the reasonable extra costs of expediting temporary and permanent repairs to, or permanent replacement of, damaged property. This shall include overtime wages and the extra cost of

express or other means for rapidly transporting materials and supplies necessary to the repair or replacement.

- c) The policy shall specifically permit and allow for partial occupancy by the owner prior to execution of the final Certification of Contract Completion, and coverage shall remain in effect until all punch list items are completed.
- d) The Builder's Risk deductible may not exceed \$5,000. The Contractor or subcontractor experiencing any loss claimed under the Builder's Risk policy shall be responsible for that loss up to the amount of the deductible.
- e) If Contractor is involved solely in the installation of material and equipment and not in new building construction, the Contractor shall provide an Installation Floater policy in lieu of a Builder's Risk policy. The policy must comply with the provisions of this paragraph.

#### 34. Workman's Compensation Coverage

Georgetown County, SC will require each contractor and service provider to maintain on file with the purchasing officer, a current Certificate of Insurance showing limits as required by the Workers' Compensation Act of SC: Employers Liability, \$1,000,000.

The law also recognizes "statutory employees." These are employees who work for a subcontractor who may be working for a business or another contractor. Employers should inquire whether or not a subcontractor working for them has workers' compensation insurance, regardless of the number of employees employed by the subcontractor. If the subcontractor does not, the subcontractor's injured employees would be covered under the employer's workers' compensation insurance. If the subcontractor does not carry workers' compensation insurance, then the owner or the principal contractor would be liable just as if the subcontractor's employee was one of their employees.

For answers to additional questions, visit the SC Worker's Compensation Commission website, at:

<http://www.wcc.sc.gov/Pages/FrequentlyAskedQuestions.aspx#emp1>

#### 35. Hold Harmless Clause

The Contractor shall, during the term of the contract including any warranty period, indemnify, defend, and hold harmless the County, its officials, employees, agents, and representatives thereof from all suits, actions, or claims of any kind, including attorney's fees, brought on account of any personal injuries, damages, or violations of rights, sustained by any person or property in consequence of any neglect in safeguarding contract work or on account of any act or omission by the contractor or his employees, or from any claims or amounts arising from violation of any law, bylaw, ordinance, regulation or decree. The vendor agrees that this clause shall include claims involving infringement of patent or copyright.

#### 36. Condition of Items

All items shall be new, in first class condition, including containers suitable for shipment and storage, unless otherwise indicated herein. Verbal agreements to the contrary will not be recognized.

#### 37. Disposal Costs

The contractor will be responsible for disposal of any and all removed, unused and surplus materials and any fees and transportation costs associated with the disposal.

#### 38. Workmanship and Inspection

All work under this contract shall be performed in a skillful and workmanlike manner. The County may, in writing, require the Contractor to remove any employee from work that the County deems incompetent or careless.

Further, the County may, from time to time, make inspections of the work performed under this contract. Any inspection by the County does not relieve the Contractor from any responsibility regarding defects or other failures to meet the contract requirements.

### 39. Invoicing and Payment

The firm shall submit invoices on a frequency to be determined, as agreed upon by the County, for each payment requested. Such invoice shall also include a detailed breakdown of all charges. All such invoices will be paid within thirty (30) days unless any items thereon are questioned, in which event payment will be withheld pending verification of the amount claimed and the validity of the claim. The firm shall provide complete cooperation during any such investigation. All invoices shall be forwarded to the following address:

County of Georgetown  
Accounts Payable  
P.O. Box 421270  
Georgetown, SC 29442-4200

Individual contractors shall provide their social security numbers, and proprietorships, partnerships, and corporations shall provide their federal employer identification number on the pricing form.

### 40. Progress Payments

Contractor's Application for Payment shall be submitted to the Owner on such other form as may be mutually agreed upon. The period covered by each Application for Payment shall be not less than one calendar month. The Owner shall make progress payments to the Contractor on undisputed amounts certified by the Architect or the Owner's Representative within twenty-one (21) days from receipt of the Application for Payment by the Owner in accordance with Title 29, Chapter 6 of the Code of Laws of South Carolina, 1976, as amended.

### 41. South Carolina Sales Tax

The County of Georgetown, SC is not exempt and pays the appropriate SC sales tax on all applicable purchases. Effective May 01, 2015, the sales tax rate increased from 6% to 7% which includes a VAT for Georgetown County.

### 42. Assignment of Contract

This contract may not be assigned in whole or part without the written consent of the Purchasing Officer.

### 43. Termination

Subject to the provisions below, the contract may be terminated by the County upon thirty (30) days advance written notice to the other party; but if any work or service hereunder is in progress, but not completed as of the date of termination, then this contract may be extended upon written approval of the County until said work or services are completed and accepted.

#### a. Termination for Convenience

In the event that this contract is terminated or canceled upon request and for the convenience of the County, without the required thirty (30) days advance written notice, then the County shall negotiate reasonable termination costs, if applicable.

b. Termination for Cause

Termination by the County for cause, default or negligence on the part of the contractor shall be excluded from the foregoing provision; termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived in the event of Termination for Cause.

c. Non-Appropriation:

It is understood and agreed by the parties that in the event funds are not appropriated in the current fiscal year or any subsequent fiscal years, this contract will become null and void and the County will only be required to pay for services completed to the satisfaction of the County.

44. Default

In case of default by the contractor, for any reason whatsoever, the County may procure the goods or services from another source and hold the contractor responsible for any resulting excess cost and may seek other remedies under law

45. Severability

In the event that any provision shall be adjudged or decreed to be invalid, such ruling shall not invalidate the entire Agreement but shall pertain only to the provision in question and the remaining provisions shall continue to be valid, binding and in full force and effect.

46. Applicable Laws

This Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina, U.S.A.

47. Claims and Disputes:

All claims, disputes and other matters in question between parties arising out of, or relating to, this Agreement, or the breach thereof, shall be decided in the Circuit Court of the Fifteenth Judicial circuit in Georgetown County, South Carolina. By executing this Agreement, all parties specifically consent to venue and jurisdiction in Georgetown County, South Carolina and waive any right to contest jurisdiction and venue in said Court.

48. Rights of County

The County reserves the right to reject all or any part of any bid, waive informalities and award the contract to the lowest responsive and responsible bidder to best serve the interest of the County.

49. Award of Bid

In determining the lowest responsive and responsible bidder, in addition to price, there may be considered the following:

- (a) The ability, capacity and skill of the bidder to perform the contract.
- (b) Whether the bidder can perform the contract within the time specified, without delay of interference.
- (c) The character, integrity, reputation, judgment, experience and efficiency of the bidder.
- (d) The quality of performance on previous contracts.
- (e) The previous and existing compliance by the bidder with laws and ordinances relating to the contract.
- (f) The sufficiency of the financial resources to perform the contract to provide the service.
- (g) The quality, availability and adaptability of the supplies or contractual services to the particular use required.

- (h) The ability of the bidder to provide future maintenance and service.
- (i) The discount terms and conditions of the bid.
- (j) Delivery time.

50. Notice of Award

A *Notice of Intent to Award* will be mailed to all respondents.

51. Protest

Bidders may refer to Sections 2-67, 2-73, and 2-74 of Ordinance #2008-09, also known as the Georgetown County, South Carolina Purchasing Policy to determine their remedies concerning this competitive process. The failure to be awarded a bid shall not be valid grounds for protest.

52. Debarment

By submitting a bid, the offeror certifies to the best of its knowledge and belief, that it and its principals, sub-contractors and assigns are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal, State or local department or agency. A copy of the County's debarment procedure in accordance with Section 2-68 of Ordinance #2008-09, also known as the Georgetown County, South Carolina Purchasing Policy is available upon request.

53. Firm Pricing for County Acceptance

Bid price must be firm for County acceptance for 90 days from bid opening date. "Discount from list," bids are not acceptable unless specifically requested.

54. Quotations to be F.O.B.: Destination

Quote F.O.B.: Destination for this competitive sealed bid. As an alternate, show exact cost for delivery.

55. Unit Prices and Extension

Bid unit price on quantity specified -- extend and show total. In case of errors in extension, unit prices shall govern. Bids subject to unlimited price increases will not be considered.

56. Use of Brand Names (If Appropriate)

Unless otherwise stated in an Invitation for Bid, the name of a certain brand, make or manufacturer does not restrict bidders to the specific brand, make or manufacturer named; it conveys the general style, type, character, and quality of the article desired, and any article which the County in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted. Any catalog, brand name or manufacturer's reference used in bid invitation is descriptive - NOT restrictive - it is to indicate type and quality desired. Bids on brands of like nature and quality will be considered. If bidding on other than reference or specifications, bid must show manufacturer, brand or trade name, catalog number, etc. of article offered. If other than brand(s) specified is offered, illustrations and complete description must be submitted with bid. Samples may be required. If bidder makes no other bid and takes no exception to specifications or reference data, he will be required to furnish brand names, numbers, etc., as specified. Bidders must certify that item(s) bid upon meet and/or exceed specifications.

57. Delivery After Receipt of Order (ARO)

Bid must show the number of days required to place material in using agency's receiving room under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promised may cause bid to be disregarded. Consistent

failure to meet delivery promises without valid reason may cause removal from bid list. Delivery shall be made during normal working hours only, 9 to 5, unless prior approval has been obtained from the County.

58. Permits

The successful Offeror must be responsible for obtaining all necessary city, county, and state permits/licenses and must comply with all local codes and ordinances. Copies of such permits/licenses shall be made available to the County upon request. Building contractors working within Georgetown County must also secure a Contractor's License from the Building Department. Work within the Georgetown City Limits may require a City Business License. For additional information, please review the "Forms and Fees" section of the Building and Planning web page at the link below:

<http://www.georgetowncountysc.org/building/default.html>

59. Environmental Management:

Vendor/Supplier/Contractor will be responsible for complying with all federal, state and local environmental regulations relating to transportation, handling, storage, spillage and any other aspect of providing the services specified herein, as applicable.

60. Bid Tabulation Results

Vendors wishing to view the bid tabulation results may visit the Georgetown County, SC web-site at: <http://www.georgetowncountysc.org>. Select "Bid Opportunities", under the *Quick Links* section, then "Bids Under Review" and double click the link under the individual bid listing.

61. The Bidder hereby certifies that he or she has carefully examined all of the Documents for the project, has carefully and thoroughly reviewed this Request for Bid/Quotation, has inspected the location of the project (if applicable), and understands the nature and scope of the work to be done; and that this Bid is based upon the terms, specifications, requirements, and conditions of the Request for Bid/ Documents. The Bidder further agrees that the performance time specified is a reasonable time, having carefully considered the nature and scope of the project as aforesaid.

62. Any attempt by the vendor to influence the opinion of County Staff or County Council by discussion, promotion, advertising, misrepresentation of the submittal or purchasing process or any procedure to promote their offer will constitute a violation of the vendor submittal conditions and will cause the vendor's submittal to be declared null and void.

63. Apparent omission of a detailed description concerning any point, shall be regarded as meaning the best commercial practice is to prevail and that only material and workmanship of the finest quality are to be used.

64. Response Clarification

Georgetown County reserves the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.

65. Georgetown County, SC has a Local Vendor Preference Option by ordinance:

**Sec 2-50. Local Preference Option**

1. A vendor shall be deemed a Local Georgetown County vendor for the purposes of this Section if such vendor is an individual, partnership, association or corporation that is authorized to transact business within the State, maintains an office in Georgetown County, and maintains a representative inventory or commodities within the County on which the bid is submitted, and has paid all taxes duly assessed.

2. This option allows the lowest local Bidder whose bid is within five-percent (5%) of the lowest non-local Bidder to match the bid submitted by the non-local Bidder and thereby be awarded the contract. This preference shall apply only when (a) the total dollar purchase is \$10,000 or more; (b) the vendor has a physical business address located and operating within the limits of Georgetown County and has been doing business in the County for a period of twelve (12) months or more; and (c) the vendor provides proof of payment of all applicable Georgetown County taxes and fees if so requested.
3. Should the lowest responsible and responsive Georgetown County bidder not exercise its right to match the bid as granted herein, the next lowest qualified Georgetown County bidder shall have that right and so on. The right to exercise the right to match the bid shall be exercised within 24 hours of notification of the right to match the non-Georgetown County bidder's bid.
4. In order to qualify for the local preference authorized by this Section, the vendor seeking same shall be required to submit with its bid a statement containing relevant information which demonstrates compliance with the provisions of this Section. This statement shall be on a form provided by the County purchasing department and shall be signed under penalty of perjury. Failure to provide such affidavit at the time the bidder submits its bid shall constitute a waiver of any claim for preference.
5. For all contracts for architecture, professional engineering, or other professional services governed by § 2-56, Architect-Engineer and Land Surveying Services – Public Announcement and Selection Process, the county shall include the local business status of a firm among the factors considered when selecting which firms are “most highly qualified.” In determining which firm is the “most qualified” for purposes of negotiating a satisfactory contract, preference shall be given to a local business where all other relevant factors are equal.
6. Local preference shall not apply to the following categories of contracts: (a) Goods or services provided under a cooperative purchasing agreement or similar “piggyback” contract; (b) Contracts for professional services except as provided for in section five (§5) above; (c) Purchases or contracts which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions of receipt of the funds prohibit the preference; (d) Purchases or contracts made pursuant to a noncompetitive award process, unless otherwise provided by this section; or (e) Any bid announcement which specifically provides that the general local preference policies set forth in this section are suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the county council or county administrator, or where such suspension is, in the opinion of the county attorney, required by law.

See the RESIDENCE CERTIFICATION FOR LOCAL PREFERENCE form attached for details.

#### 66. Vendor Checklist

The items indicated below must be returned as a part of the Bid Submission package:

- Bid Bond of 5%
- Non-Collusion Oath
- Resident Certification for Local Preference
- Substitute for Form W-9
- Mandatory Bid Submittal Form
- Mandatory Exceptions Page

The successful proposer will be required to provide a Certificate of Insurance naming Georgetown County, SC as an additional insured. This must be on file prior to any final award.

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## RESIDENCE CERTIFICATION FOR LOCAL PREFERENCE

### MANDATORY VENDOR SUBMITTAL FORM

WHEREAS, Georgetown County Council desires to further its support of local businesses when awarding contracts for the provision of supplies and construction services to the County through its established procurement procedures.

THEREFOR pursuant to Georgetown County, SC Ordinance #2010-45 as adopted, §2-50 Local Preference Option, the Georgetown County Purchasing Officer requests each offeror provide Residence Certification. The Local Preference Option provides some restrictions on the awarding of governmental contracts; provisions of which are stated below:

#### **Sec 2-50. Local Preference Option**

1. A vendor must be deemed a Local Georgetown County vendor for the purposes of this Section if such vendor is an individual, partnership, association or corporation that is authorized to transact business within the State, maintains an office in Georgetown County, and maintains a representative inventory or commodities within the County on which the bid is submitted, and has paid all taxes duly assessed.
2. This option allows the lowest local Bidder whose bid is the lesser of \$10,000 or within five-percent (5%) of the lowest non-local Bidder to match the bid submitted by the non-local Bidder and thereby be awarded the contract. This preference must apply only when (a) the total dollar purchase is \$10,000 or more; (b) the vendor has a physical business address located and operating within the limits of Georgetown County and has been doing business in the County for a period of twelve (12) months or more; and (c) the vendor provides proof of payment of all applicable Georgetown County taxes and fees if so requested.
3. Should the lowest responsible and responsive Georgetown County bidder not exercise its right to match the bid as granted herein, the next lowest qualified Georgetown County bidder must have that right and so on. The right to exercise the right to match the bid must be exercised within 24 hours of notification of the right to match the non-Georgetown County bidder's bid.
4. In order to qualify for the local preference authorized by this Section, the vendor seeking same must be required to submit with its bid a statement containing relevant information which demonstrates compliance with the provisions of this Section. This statement must be on a form provided by the County purchasing department and must be signed under penalty of perjury. Failure to provide such affidavit at the time the bidder submits its bid must constitute a waiver of any claim for preference.

5. For all contracts for architecture, professional engineering, or other professional services governed by § 2-56, Architect-Engineer and Land Surveying Services – Public Announcement and Selection Process, the county must include the local business status of a firm among the factors considered when selecting which firms are “most highly qualified.” In determining which firm is the “most qualified” for purposes of negotiating a satisfactory contract, preference must be given to a local business where all other relevant factors are equal.
6. Local preference must not apply to the following categories of contracts:
  - (a) Goods or services provided under a cooperative purchasing agreement or similar “piggyback” contract;
  - (b) Contracts for professional services except as provided for in section five (§5) above;
  - (c) Purchases or contracts which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions of receipt of the funds prohibit the preference;
  - (d) Purchases or contracts made pursuant to a noncompetitive award process, unless otherwise provided by this section; or
  - (e) Any bid announcement which specifically provides that the general local preference policies set forth in this section are suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the county council or county administrator, or where such suspension is, in the opinion of the county attorney, required by law.

I certify that [Company Name] \_\_\_\_\_ is a

**Resident Bidder** of Georgetown County as defined in Ordinance #2010-45, and our principal place of business is \_\_\_\_\_ [City and State].

I certify that [Company Name] \_\_\_\_\_ is a

**Non-Resident Bidder** of Georgetown County as defined in Ordinance #2010-45, and our principal place of business is \_\_\_\_\_ [City and State].

(X) \_\_\_\_\_

Signature of Company Officer



**NON-COLLUSION OATH** )

**COUNTY OF:** \_\_\_\_\_ )

**STATE OF:** \_\_\_\_\_ )

Before me, the Undersigned, a Notary Public, for and in the County and State aforesaid, personally appeared \_\_\_\_\_ and made oath that the Offeror Herein, his agents, servants, and/or employees, to the best of his knowledge and belief have not in any way colluded with anyone for and on behalf of the Offeror, or themselves, to obtain information that would give the Offeror an unfair advantage over others, not have they colluded with anyone for and on behalf of the Offeror, or themselves, to gain any favoritism in the award of the contract herein.

SWORN TO BEFORE ME THIS

\_\_\_\_\_ DAY OF \_\_\_\_\_, 2016

\_\_\_\_\_  
Authorized Signature of Offeror

NOTARY PUBLIC FOR THE

STATE OF: \_\_\_\_\_

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

Print Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

(Note: Notary seal required for out-of-state offeror)



**MANDATORY BID SUBMITTAL FORM**  
**Bid #16-059**  
**Design/Build of Expandable Speculation Shell Building**

The undersigned, on behalf of the vendor, certifies that: (1) this bid is made without previous understanding, agreement or connection with any person, firm or corporation making a bid on the same project; (2) is in all respects fair and without collusion or fraud; (3) the person whose signature appears below is legally empowered to bind the firm in whose name the bid is entered (4) they have read the complete Request for Bid and understands all provisions: (5) if accepted by the County, this bid is guaranteed as written and amended and will be implemented as stated; and (6) mistakes in writing of the submitted bid will be their responsibility.

1. Name of Company submitting bid \_\_\_\_\_

2. **Total Cost for Building Proposed** (on lot #3 as specified): \$ \_\_\_\_\_

3. **Total Cost for Clearing/Grading** (on lot #10 as specified): \$ \_\_\_\_\_

4. **OPTION 1**, Additional two (2) 9' x 10' Roll-Up Dock Doors with the inclusion of an expanded loading dock, as specified: 2 x \$ \_\_\_\_\_ Each = \$ \_\_\_\_\_

Additional Owner Options for Consideration may be listed with costs on a separate page.

5. Bid cost must remain valid ninety (90) days from bid opening date.

6. Mobilization Date, or number of days after Notice to Proceed: \_\_\_\_\_

7. Contact Address: \_\_\_\_\_  
\_\_\_\_\_

8. Contact Person \_\_\_\_\_

9. Telephone Number \_\_\_\_\_ Fax Number \_\_\_\_\_

10. E-Mail address \_\_\_\_\_

11. Remittance Address: \_\_\_\_\_  
\_\_\_\_\_

12. Accounting Contact \_\_\_\_\_

13. Telephone Number \_\_\_\_\_ Fax Number \_\_\_\_\_

14. E-Mail address \_\_\_\_\_

15. FEIN or Social Security Number: \_\_\_\_\_

16. Customer References: Submit no less than three (3) firms at which the bidder provides services similar in scope and nature to the Work required by this RFP:

Entity Name:	
Contact:	
Title:	
Street:	
City, State & Zip:	
Primary Telephone:	
Primary FAX:	
E-Mail Address:	
Brief Explanation of Relationship:	

Entity Name:	
Contact:	
Title:	
Street:	
City, State & Zip:	
Primary Telephone:	
Primary FAX:	
E-Mail Address:	
Brief Explanation of Relationship:	

Entity Name:	
Contact:	
Title:	
Street:	

City, State & Zip:	
Primary Telephone:	
Primary FAX:	
E-Mail Address:	
Brief Explanation of Relationship:	

17. Suspension and Debarment

Federal guidelines require grant recipients to obtain sufficient assurance that vendors are not suspended or debarred from participating in federal programs when contracts exceed \$25,000. By signing below you verify that no party to this agreement is excluded from receiving Federal contracts, certain subcontracts, and certain Federal financial and nonfinancial assistance and benefits, pursuant to the provisions of 31 U.S.C. 6101, note, E.O. 12549, E.O. 12689, 48 CFR 9.404, and each agency's codification of the Common Rule for Nonprocurement suspension and debarment. [See <https://www.epls.gov/> for additional information.]

18. If the bid is accepted, the required Contract must be executed within fifteen (15) days after receipt of written notice of formal award of Contract.

19. Acceptance of Invitation for Bid Content: The contents of the successful IFB/RPS are included as if fully reproduced herein. Therefore, the selected contractor must be prepared to be bound by his/her proposal as submitted.

20. RENEWAL OF CONTRACT

The continuation of the terms, conditions, and provisions of any resulting contract beyond the fiscal year is subject to approval and ratification by the Georgetown County Council and appropriation by them of the necessary money to fund said contract for each succeeding year.

21. CERTIFICATION REGARDING DRUG-FREE WORKPLACE:

The undersigned certifies that the vendor listed below will provide a “drug-free workplace” as that term is defined in Section 44-107-30 of the Code of Laws of South Carolina, 1976, as amended, by the complying with the requirements set forth in title 44, Chapter 107.

Yes       No

22. Any attempt by the vendor to influence the opinion of County Staff or County Council by discussion, promotion, advertising, misrepresentation of the submittal or purchasing process or any procedure to promote their offer will constitute a violation of the vendor submittal conditions and will cause the vendor’s submittal to be declared null and void.

23. The lowest or any proposal will not necessarily be accepted and the County reserves the right to award any portion thereof. I/We, the undersigned, hereby confirm that all the above noted documents for Bid/Request for Proposal No. 16-059 were received.

24. ILLEGAL IMMIGRATION: Non-Construction (NOV. 2008): (An overview is available at [www.procurement.sc.gov](http://www.procurement.sc.gov)) By signing your offer, you certify that you will comply with the applicable requirements of Title 8, Chapter 14 of the South Carolina Code of Laws and agree to provide to the State upon request any documentation required to establish either: (a) that Title 8, Chapter 14 is inapplicable to you and your subcontractors or sub-subcontractors; or (b) that you and your subcontractors or sub-subcontractors are in compliance with Title 8, Chapter 14. Pursuant to Section 8-14-60, "A person who knowingly makes or files any false, fictitious, or fraudulent document, statement, or report pursuant to this chapter is guilty of a felony, and, upon conviction, must be fined within the discretion of the court or imprisoned for not more than five years, or both." You agree to include in any contracts with your subcontractors language requiring your subcontractors to (a) comply with the applicable requirements of Title 8, Chapter 14, and (b) include in their contracts with the sub-subcontractors language requiring the sub-subcontractors to comply with the applicable requirements of Title 8, Chapter 14. [07-7B097-1]

25. INFORMATION ONLY:

Our company accepts VISA government procurement cards.  
If yes, list any upcharge for P-Card Payment? \_\_\_\_\_

Our company does not accept VISA government procurement cards.

26. Printed Name of person binding bid \_\_\_\_\_

27. Signature (X) \_\_\_\_\_

28. Date \_\_\_\_\_

**NOTE: THE ENTIRE RFP PACKET NEED NOT BE RETURNED. Thank you.**

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# EXCEPTIONS PAGE

## MANDATORY BID SUBMISSION FORM

List any areas where you cannot or will not comply with the specifications or terms contained within the bid documentation.

# MASTER PLAN FOR GEORGETOWN COUNTY BUSINESS CENTER GEORGETOWN, SOUTH CAROLINA

JANUARY 7, 2004  
Revised:  
MARCH 18, 2004  
Prepared For:

GEORGETOWN COUNTY  
PLANNING AND DEVELOPMENT

Prepared By:  
**Wood+Partners Inc. WPI**  
Landscape Architects  
Urban Planners

9500 Parkside • Suite 100 • Columbia, SC 29206  
803.733.8118 • Fax 803.733.7208 • www.woodpartners.com

**DEVELOPMENT SUMMARY**

PHASE I	PHASE II
LOT 1 = 12.96	LOT 13 = 19.20
LOT 2 = 4.03	LOT 14 = 9.55
LOT 3 = 4.76	LOT 15 = 15.55
LOT 4 = 4.76	LOT 16 = 11.77
LOT 5 = 6.21	LOT 17 = 6.04
LOT 6 = 10.11	LOT 18 = 20.94
LOT 7 = 23.91	LOT 19 = 20.73
LOT 8 = 5.13	LOT 20 = 10.63
LOT 9 = 1.18	LOT 21 = 11.12
LOT 10 = 7.23	LOT 22 = 23.56
LOT 11 = 7.06	LOT 23 = 14.50
LOT 12 = 12.18	LOT 24 = 8.65
LOT 13 = 7.23	LOT 25 = 8.54
LOT 14 = 2.02	LOT 26 = 10.47
LOT 15 = 6.87	LOT 27 = 11.33
LOT 16 = 1.09	LOT 28 = 15.33
LOT 17 = 10.46	WETLAND = 60.35
LOT 18 = 11.91	BUFFER = 20.32
LOT 19 = 11.56	
LOT 20 = 10.22	
LOT 21 = 8.66	
LOT 22 = 10.38	
WETLAND = 13.34	
BUFFER = 4.3	

**KEY**

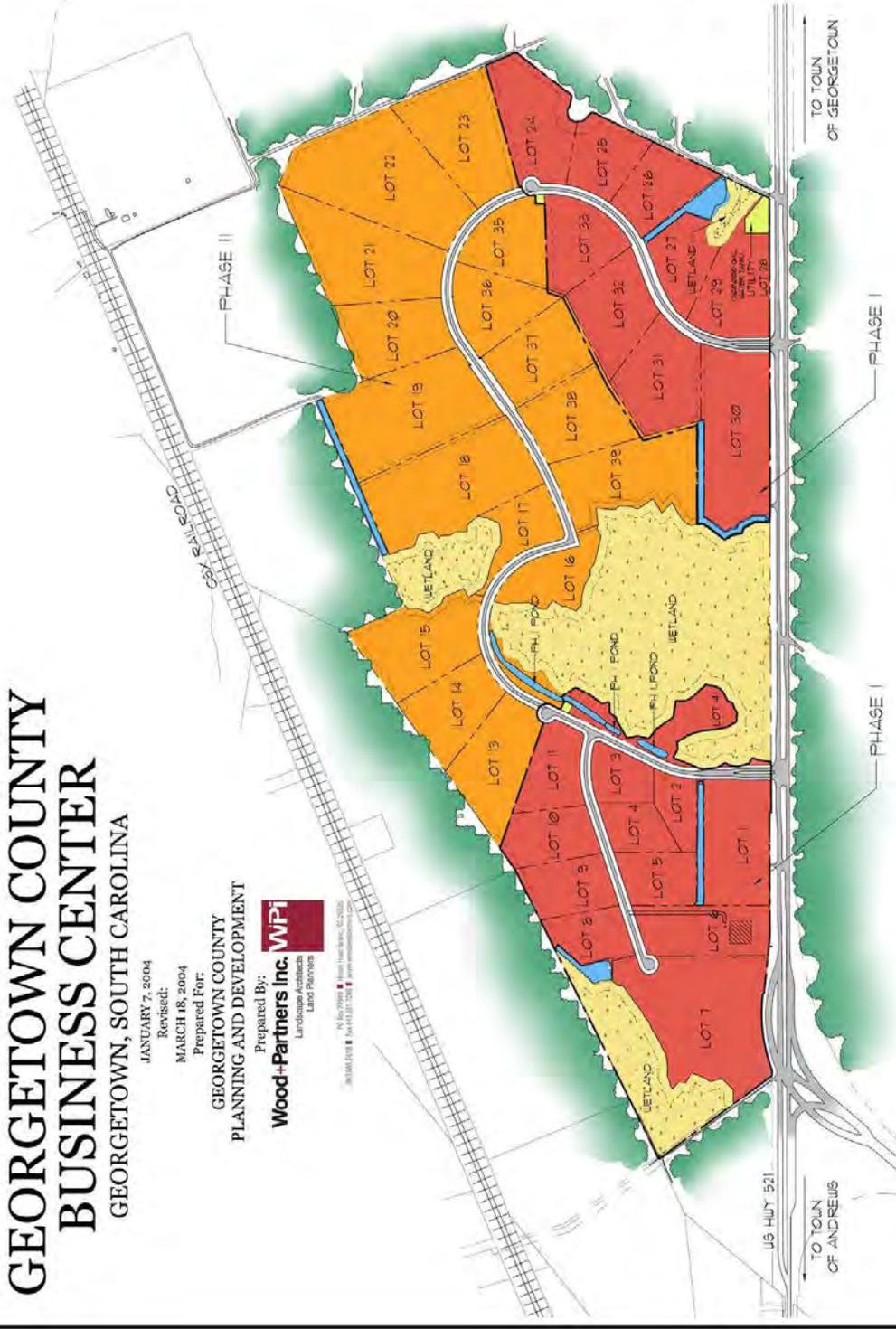
- PHASE I (Red)
- PHASE II (Orange)
- WETLANDS (Yellow)
- FOND LOTS DRAINAGE / UTILITY EASEMENTS (Blue)
- UTILITIES (Grey)

0 200' 400' 800' 1200' 1600'

**NORTH**

SCALE: 1"=400'

THIS PLAN IS SUBJECT TO CHANGE



File over is conceptual in nature. SCDDOT plans not available at time of issue date. Some information obtained from Google Earth, 1/16/04. No other Wood+Partners Inc. project data. This drawing is for informational purposes only and does not constitute a contract. All rights reserved. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Wood+Partners Inc.

# Lot 3 - Building Site



Lot 3 - Building Site			
Parcel: 02-0416-035-06-02 Acres: 9.46			
Name:	GEORGETOWN COUNTY	Land Value	\$30,100.00
Site:	259 TECHNOLOGY DR	Improvement Val	\$0.00
Sale:	\$\$10 on 10-2011 Vacant= Qual=9	Accessory Value	\$0.00
Mail:	P O BOX 421270	Total Value	\$30,100.00
	GEORGETOWN, SC 29442		



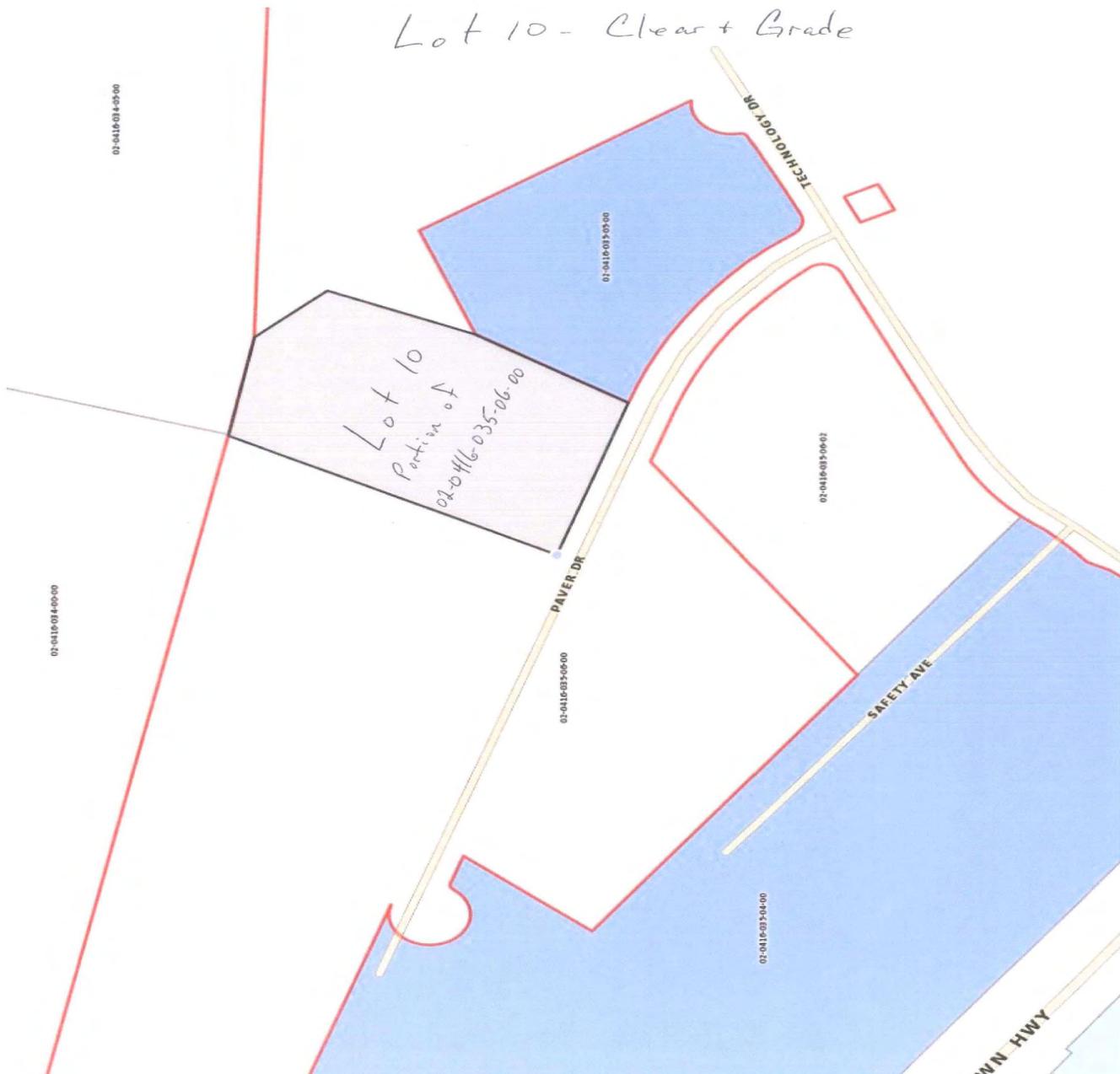
The Georgetown County Assessor's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER GEORGETOWN COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY---

Date printed: 07/07/16 : 08:49:51

Lot 10 - Clear + Grade



Lot 10 - Clear + Grade



# FOUNDATION EXPLORATION ENGINEERING STUDIES AND ANALYSES FOR

PROPOSED CONCEPTUAL BUILDING  
LOTS 10 AND 11  
GEORGETOWN COUNTY BUSINESS PARK  
GEORGETOWN, SOUTH CAROLINA

SCI PROJECT 07070A  
APRIL 23, 2007



**SOIL CONSULTANTS, INC.**  
ENGINEERS AND GEOLOGISTS  
*SINCE 1951*



April 23, 2007

Earth Tech  
2456 Remount Road  
North Charleston, South Carolina 29406

SCI Project 07070A

Attention: Mr. Fred Cooper

Dear Mr. Cooper:

The following preliminary analysis is given for the subsurface exploration performed at the site of the Proposed Conceptual Building, Lots 10 and 11, Georgetown County Business Park, Georgetown County, South Carolina. This report provides a general discussion of the exploration procedures used, subsurface conditions encountered, seismic analysis, and preliminary site preparation and foundation recommendations. It should be noted that this subsurface exploration is preliminary and was conducted to assess general subsurface conditions at the site, and that no specific site layout for the proposed structure was available at the time of our investigation.

**SITE DESCRIPTION**

The site consists of two adjacent lots, designated Lots 10 and 11, bordered by undeveloped wooded areas to the north and west, and paved roads to the south and east. At the time of our site reconnaissance, we noted that the site was undeveloped, and moderately to densely wooded with dense underbrush. The ground surface in some areas of the site was wet and boggy, while other areas were firm and stable. Portions of the site had existing ditches and standing water. The topography of the site was predominantly flat with the elevation approximately the same as the existing roads and adjacent properties.



## **SCOPE OF PROJECT**

It is our understanding that the proposed project includes the construction of a new conceptual building with a concrete slab on grade. It is also our understanding that the proposed building will be one story and encompass approximately 40,000 square feet, with the potential to be expanded to 100,000 square feet. However, no specific plans are currently available regarding proposed site development layout or proposed structures and associated amenities. For the purposes of this preliminary analysis and report, we have assumed the proposed structure to be a lightly-loaded structure with maximum column loads on the order of 30 to 50 kips and maximum wall loads on the order of 2 to 4 kips per linear foot. In addition, it is assumed that no more than two feet of fill material will be placed on the project building site during construction.

## **FIELD EXPLORATION**

From March 19 through 21, 2007, we performed six split-spoon sample soil borings with Standard Penetration Tests in locations and to depths determined by our firm. Boring locations were staked in the field by our firm using a tape to measure distances and estimating right angles with reference to existing site features. Adverse Terrain Vehicle (ATV)-mounted drilling equipment was used to perform the borings, the approximate locations of which are shown on an attached sketch.

Field exploratory procedures (split-spoon samples with Standard Penetration Tests) are explained on enclosed Plate Nos. 1 and 2, and the classification of the soils encountered under the Unified Soil Classification System is explained on Plate No. 3. Soil samples from this exploration will be retained for a period of three months from the date of this report. Unless other arrangements are made they will be disposed of following this period. The soil boring logs attached to this report graphically illustrate the relative strength of the soils encountered and provide an approximate soil stratigraphy.

## SUBSURFACE CONDITIONS

Subsurface conditions encountered in the borings were generally similar across the site and are discussed below. All references to depth are approximate and are made with respect to the existing ground surface at the time that the borings were drilled.

Below a surficial layer of topsoil and roots approximately 6 inches thick, the borings generally encountered soft to hard inorganic clays to depths ranging from 9½ to 33 feet. Standard Penetration Test Resistance (N) values obtained in the clays ranged from 3 to 35 blows per foot (bpf). Interbedded layers of very loose to dense fine to medium sands with N values ranging from 4 to 33 bpf were encountered in the borings at varying depths. Below the clays, very loose to very dense fine to medium sands and silty sands with N values ranging from 1 to 100 bpf extended to the termination depths of the borings at approximately 50 feet.

Shovel samples were taken adjacent to the individual boring locations to a depth of about two feet for the purpose of estimating the extent of root content in the surface soils. These samples showed varying root content to depths ranging from approximately 4 to 9 inches below the existing ground surface. Although this data is an indication of the depths of root content at the site, it should be noted that the depth of roots and organic material can be expected to vary across the site and will likely be more significant within more heavily wooded portions or low lying areas of the site. The actual depth to which roots of significant size and quantity would be encountered will best be determined by visual inspection during site clearing, grubbing and stripping operations.

The ground water table was measured and found to vary from approximately 1 to 2 feet below the existing ground surface. The ground water table measurements were made a minimum of 24 hours after completion of the individual borings. It must be noted that fluctuations in the level of the ground water table may occur due to variations in ground elevation, rainfall, drainage, types of soil encountered, temperature and other factors not evident at the time measurements were made. Since the probability of such variations is anticipated, design drawings and specifications should accommodate such possibilities and construction

planning should be based on such assumptions of variation. If excavation is required below the ground water table during construction, dewatering should be anticipated.

## **SEISMIC CONSIDERATIONS**

The South Carolina coastal area is a well documented area of high seismicity. The destructive Charleston, SC, earthquake of August 31, 1886, is estimated to have a moment magnitude of approximately 7.25 to 7.5. Earthquakes of much lesser magnitude occur on a relatively frequent basis. Due to the unconsolidated nature of the near surface soils in the coastal region, damage due to even a relatively modest intensity earthquake is anticipated to be relatively great. Concerns related to earthquake occurrence include liquefaction of the relatively clean, submerged loose sands due to shaking as well as subsequent ground movements associated with shearing or consolidation of the liquefied soils.

### ***Liquefaction***

Liquefaction is a deformation condition caused by repeated disturbance of a saturated cohesionless soil (sand). Essentially, under cyclic loading, such as that resulting from a seismic event, the soil tends to lose its shear strength and attain a semi-fluid like state. A study of earthquakes in the last century showed a range of liquefaction-induced damage, including failure of slopes, foundation failures and even flotation of buried structures. In addition, densification of relatively low-density soils can result in significant amounts of settlement under constructed facilities and subsequent structural damage.

A liquefaction analysis was performed on representative samples of looser sands encountered below the water table. Seed's simplified procedure, which relates liquefaction potential to the standard penetration test resistance blow counts (based on the actual performance of soil deposits during earthquakes), was used to define potentially liquefiable zones of sand. The results of this analysis showed that, using a design earthquake with a magnitude of 7.3 and a maximum ground acceleration of approximately 0.39g, potentially liquefiable layers of sands

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exist at this site to depths of approximately 17 feet below the existing ground surface. A further analysis indicates that estimated settlement as a result of liquefaction in these looser sands could range from approximately 2 to 3 inches. If the risks of liquefaction-induced settlement are not acceptable, they could be mitigated by performing ground modification (e.g. vibro-compaction or vibro-replacement) or alternatively by supporting the proposed structure on deep foundations.

Based on these conditions, with reference to Table 1615.1.1 of the International Building Code (IBC), this site would best be categorized as **Site Class "F"**. It is noted; borings for this project were performed to a maximum depth of 51½ feet and the IBC normally requires soil information to a depth of 100 feet be used in site classification. In Section 1615.1.1, however, it states that appropriate soil properties can be estimated by a registered design professional if site-specific data is not available. Data available in our files from previous projects near this site was used for this purpose.

In accordance with Sections 1615.1.2, 1615.1.3, and 1615.1.4 of the IBC, design parameters were calculated for an earthquake having a 2% probability of exceedence in a 50-year period. The results of these calculations, expressed as a percent of the gravitational force (g) are as follows:

Five-Percent Damped Design Spectral Response Acceleration Parameters

Short Periods (0.2 sec)  $S_{DS} = 98.7 \%g$

1-Second Periods  $S_{D1} = 45.8 \%g$

It should be noted; for sites classified as "F", the IBC requires that a site-specific dynamic site response analysis be performed in order to determine spectral response. However, in Note "b" of Tables 1615.1.2.(1) and (2) of the IBC, it states that for structures with periods of vibration less than or equal to 0.5 seconds, which we assume this structure to be, values for  $F_a$  and  $F_v$  can be determined from the tables using the site class determined without regard to liquefaction. Therefore, the General Procedure of Section 1615.1.4 of the IBC using **Site Class "D"** was used to determine the spectral response data. If the structure has a fundamental period

in excess of 0.5 seconds, or if a site specific analysis is desired, please contact us. The determination for Site Class D was based on the N-values from the soil boring data and the procedures outlined in the IBC. We have provided a Design Response Curve for your use based on this site classification.

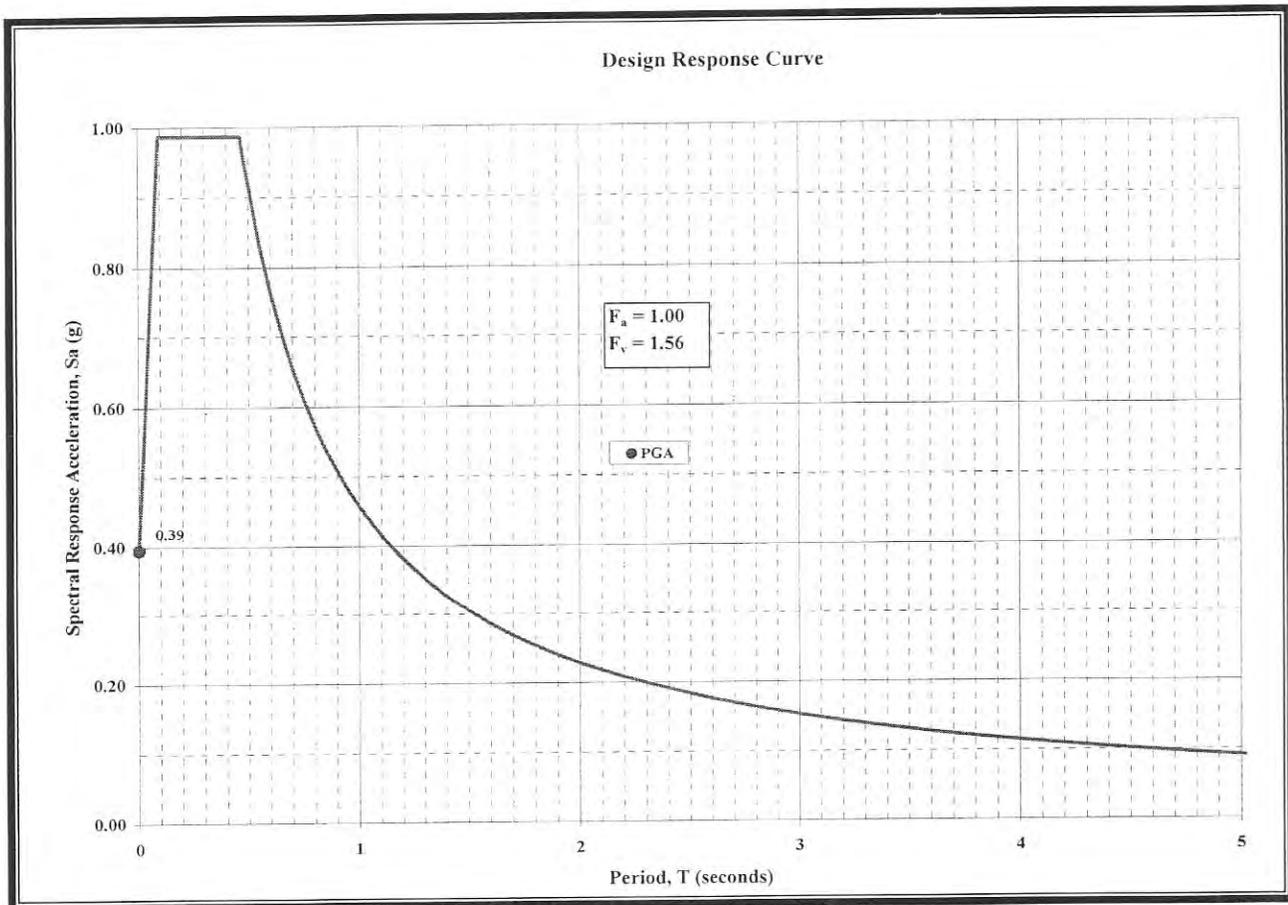


Figure 1 – Design Response Spectrum for Proposed Conceptual Building, Lots 10 and 11, Georgetown County Business Park, Georgetown, SC

## **RECOMMENDATIONS**

As mentioned earlier in this report, this is a preliminary subsurface exploration of the site. Therefore, the following comments and recommendations should be construed as preliminary in nature. Additional investigation of the site and engineering analysis should be performed prior to development of the site to assess subsurface site conditions in specific locations where structures are proposed.

A study of the subsurface conditions encountered shows sands and clays of reasonable density exist in the borings to depths of at least 10 feet below the existing ground surface at the time of the exploration. Therefore, if the risks of liquefaction-induced settlement are acceptable, the use of conventional shallow foundations would be suitable for support of proposed lightly-loaded structures, and the concrete floor slab could be placed at grade.

### ***Grading and Drainage***

As previously indicated, the ground water table was measured at relatively shallow depths below the existing ground surface in the borings. While excavating below the ground water table dewatering should be anticipated. Safety precautions must be taken to maintain the side slopes and bottoms of deeper excavations. In addition, runoff of rainwater could have a significant effect on construction. Based on this condition, design and implementation of a permanent grading and drainage plan is essential. In the initial stages of site development, effective drainage must be established and modified as necessary during construction.

Temporary and permanent site drainage should be established to facilitate drainage away from the building and parking areas. This will prevent soils beneath floor slabs, foundation elements, and pavements from becoming saturated and minimize fluctuations in moisture contents. Positive site drainage is one of the most important factors influencing the long term performance of structural foundation elements and pavements.

### ***Site Preparation***

Based on observations at the site, the site is currently undeveloped and wooded, with dense underbrush. Proposed construction areas should be cleared and stripped of topsoil, trees, stumps, and other organic debris. Topsoil and organic material encountered within the project limits should be removed from the site or stored on site away from controlled fill if re-use for non-structural fill is desired. Stripping and undercutting should extend at least three (3) feet beyond the proposed building/structure footprint.

After the organic material has been stripped and prior to placement of fill material, the remaining surface soils beneath proposed structure and parking/driveway areas should be thoroughly and uniformly compacted in place. Any soft or unstable soils encountered during in-place compaction should be removed. Thoroughly compacted backfill and fill as described below should then be placed to the desired subgrade elevations.

### ***Backfill and Controlled Fill***

Backfill and controlled fill material should be non-plastic and granular in nature with a maximum of 15% passing the Wash 200 Sieve. Backfill and controlled fill should be free of organics and debris. It should be placed in thin successive layers 8" to 10" loose measurement and each layer should be compacted to at least 95% of its maximum laboratory dry density, within  $\pm 2\%$  of its optimum moisture content, in accordance with ASTM D1557 (Modified Proctor). In-place field density tests should be performed as this material is being placed and compacted in order to insure that required density is being achieved. Since these testing services are within the scope of our activities, we urge that our firm be retained to assist you during the earthwork phase of this project.

### ***Foundation Considerations***

Based on the assumed structural loads and anticipated fill height, and if the risks of liquefaction-induced settlement are acceptable, we recommend that shallow foundation systems

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be used to support the proposed structure. After the subgrade has been prepared as outlined, shallow foundations designed for a maximum allowable unit soil pressure of 1,500 pounds per square foot could be constructed. Based on the assumed design data and this maximum soil pressure, total settlement of lightly-loaded structures would not be expected to exceed 1 inch, approximately 50% of which would be differential in nature. This estimated settlement is based on the static structural loading and is different than the estimated settlement from seismic events previously discussed. However, widespread loads at the surface, such as from significant fill placement, will induce deeper soil stresses, potentially causing the underlying soft clay strata in some areas of the site to undergo long-term consolidation settlement.

If heavily-loaded structures are proposed for development of the site, we would need to re-evaluate our recommendations, and deep foundations may be required to support the proposed structures, depending on foundation loads. Based on our experience, the most economical deep foundation system for the proposed development would likely be driven pile foundations. A further study of the subsurface conditions encountered shows that soils on which piles could depend for support were not found above the medium dense to very dense sands, encountered at depths ranging from 12 to 33 feet below the existing ground surface across the site. Pile bearing would be assumed to begin in these sands and develop, primarily through skin friction, with penetration into the underlying dense to very dense sands. Various pile sizes and types are readily available, and the capacities of the pile foundations are a function of the size and type of pile and embedment (depth driven) into the sands. Based on the depth to the sands at this site, round treated timber, prestressed-precast concrete, or steel "H" piles could be used, and pile lengths would be on the order of 40 to 50 feet, depending on required design capacities. Pile lengths could be longer if higher design capacities are required for the project.

This preliminary subsurface exploration and general engineering studies were performed with accepted geotechnical engineering practice for planning purposes in association with development of the Proposed Conceptual Building, Lots 10 and 11, Georgetown County Business Park, Georgetown, South Carolina. It should be reiterated that because of the limited

field exploration, comments given in this report must be construed as being general in nature and pertinent only to the immediate vicinity of the borings performed. Once further subsurface investigation of the site has been performed, more complete engineering studies and analyses can be performed. Verification of the subsurface conditions for the purpose of determining the difficulty of excavation, dewatering, etc. is the responsibility of others specializing in those areas. Recommendations and comments given in this report are based on the results of the recent soil borings made, combined with interpolation of the subsurface conditions between borings, and the provided and assumed design data. In the event that any changes occur in the design concept, or if conditions are encountered during construction that appear to be different from those represented, the conclusions and recommendations contained in this report shall not be considered valid until the changes are reviewed and the conclusions verified in writing.

Reviewed by:

  
\_\_\_\_\_  
Ronald R. Austin, P.E.  
Date: 4/23/07

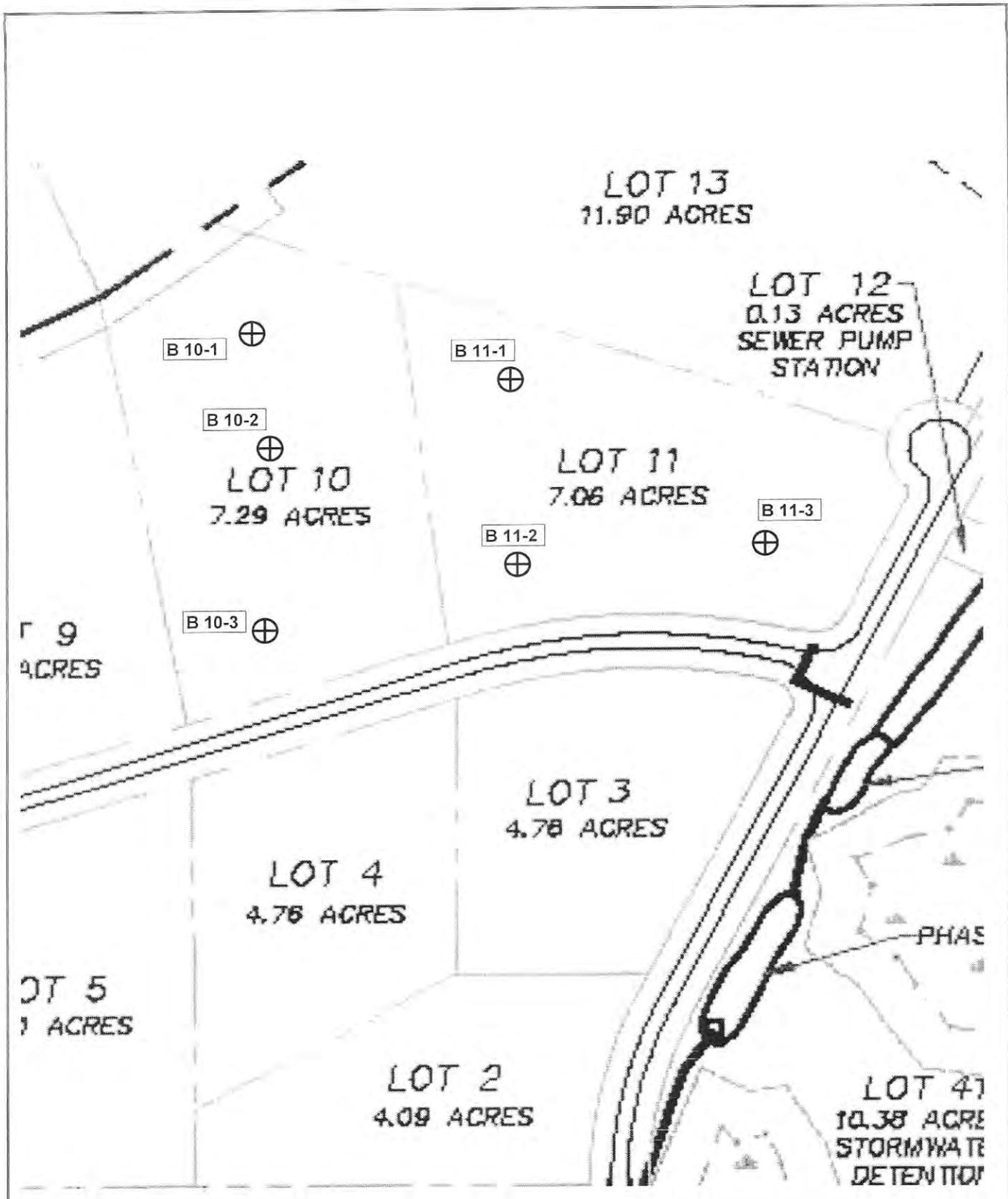
Studies and analyses by:

  
\_\_\_\_\_  
Wilson Johnson, III, P.E.  
Date: 4/23/07

wj3

Enclosures





**LEGEND**

⊕ Soil Test Boring Location (B)

Reference: Site plan based on plat drawing provided by client.

**BORING LOCATION PLAN**

Proposed Conceptual Building, Lots 10 and 11  
Georgetown County Business Park  
Georgetown, South Carolina

**SOIL CONSULTANTS, INC.**  
ENGINEERS AND GEOLOGISTS  
SINCE 1951

SCALE: Not to Scale

PROJECT NO.: 07070A

DRAWN BY: WJ3

DATE: April 9, 2007

CHECKED BY: RRA

FIGURE NO.: 1

# LOG OF BORING 10-1



**Project:** PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK

**Location:** GEORGETOWN, SOUTH CAROLINA

**SCI No.:** 07070

**Datum:** Ground Surface

**Elevation:** Assumed 0.0

**Date:** 03/20/2007

**GWT (ft):** 1.4

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	1		MEDIUM DENSE BROWN FINE TO MEDIUM SAND WITH SILT AND ROOT (SP-SM)	2-4-7		11		
	2		VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	4-9-16		25		
	3	5	VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	7-14-16		30		
	4		VERY STIFF RED, ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	5-11-12		23		
	5	10	VERY STIFF RED, ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	6-9-10		19		
	6		MEDIUM DENSE RED, ORANGE, AND TAN CLAYEY FINE TO MEDIUM SAND (SC)	4-7-7		14		
	7	15	MEDIUM DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	3-5-6		11		
	8		MEDIUM DENSE LIGHT TAN CLAYEY FINE TO MEDIUM SAND (SC)	3-4-7		11		
	9	20	LOOSE LIGHT TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	4-3-6		9		
	10	25	VERY LOOSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	1-1-3		4		
		30						

**Remarks:** SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 4 INCHES.

Testing and Sampling in accordance with ASTM D 1586

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Since 1951

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1 of 2



# LOG OF BORING 10-1

**Project: PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/20/2007

GWT (ft): 1.4

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11		STIFF GRAY INORGANIC CLAY WITH SAND (CH)	10-6-8		14		
	12	35	VERY DENSE TAN FINE TO COARSE SAND WITH SILT (SP-SM)	15-26-30			56	
	13	40	MEDIUM DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	3-10-20		30		
	14	45	DENSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	4-12-24		36		
	15	50	VERY DENSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	6-21-30			51	
			<i>BORING 10-1 TERMINATED AT A DEPTH OF 51.5 FEET</i>					
		55						
		60						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 4 INCHES.

Testing and Sampling  
in accordance with  
ASTM D 1586

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2 of 2

PRIMARY1 07070 (CONCEPTUAL BLDG, G'TOWN BUSINESS PARK, G'TOWN, SC) GPJ PRIMARY.GDT 4/23/07

**LOG OF BORING 10-2**

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/19/2007

GWT (ft): 1.3

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	1		MEDIUM DENSE BROWNISH-TAN FINE TO MEDIUM SAND WITH SILT AND ROOT (SP-SM)	3-5-6		11		
	2		HARD ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	8-13-22			35	
	3	5	VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	5-13-15			28	
	4		VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	5-10-15			25	
	5	10	DENSE REDDISH-TAN CLAYEY FINE TO MEDIUM SAND (SC)	16-18-15			33	
	6		LOOSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	4-3-3		6		
	7	15	LOOSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	3-3-4		7		
	8		SOFT GRAY INORGANIC CLAY WITH SAND (CH)	1-2-2		4		
	9	20	SOFT GRAY INORGANIC CLAY WITH SAND (CH)	1-1-3		4		
	10	25	DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	16-22-19			41	
		30						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 9 INCHES.

Testing and Sampling in accordance with ASTM D 1586

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PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC), GPJ PRIMARY.GDT 4/20/07



Construction Materials  
Non Destructive  
Geotechnical  
Environmental

# LOG OF BORING 10-2

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/19/2007

GWT (ft): 1.3

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11		DENSE LIGHT TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	11-13-19				
	12	35	MEDIUM DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	11-12-10				
	13	40	VERY LOOSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	1/18"--				
	14	45	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	10-18-32				
	15	50	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	11-36-41				
			BORING 10-2 TERMINATED AT A DEPTH OF 51.5 FEET					
		55						
		60						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 9 INCHES.

Testing and Sampling  
in accordance with  
ASTM D 1586

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Since 1951

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2 of 2

PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC) GPJ PRIMARY.GDT 4/20/07

# LOG OF BORING 10-3



**Project: PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

**Location: GEORGETOWN, SOUTH CAROLINA**

**SCI No.: 07070**

**Datum: Ground Surface**

**Elevation: Assumed 0.0**

**Date: 03/19/2007**

**GWT (ft): 1.5**

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
1	1	0	LOOSE BROWN CLAYEY FINE TO MEDIUM SAND WITH ROOT (SC)	1-3-4	7			
2	2	5	STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	2-4-7	11			
3	3	5	STIFF ORANGE AND TAN SANDY INORGANIC CLAY (CL)	4-7-7	14			
4	4	10	MEDIUM ORANGE AND GRAY INORGANIC CLAY WITH SAND (CH)	1-3-4	7			
5	5	10	SOFT GRAY INORGANIC CLAY WITH SAND (CH)	1-2-1	3			
6	6	15	MEDIUM GRAY INORGANIC CLAY WITH SAND (CH)	7-2-4	6			
7	7	15	MEDIUM GRAY INORGANIC CLAY WITH SAND (CH)	1-1-4	5			
8	8	20	MEDIUM DENSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	1-3-11	14			
9	9	20	MEDIUM DENSE GRAY FINE TO MEDIUM SAND WITH SILT AND DECAYED WOOD (SP-SM)	7-11-14	25			
10	10	25	MEDIUM DENSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	9-14-12	26			

**Remarks:** SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 7 INCHES.

Testing and Sampling in accordance with ASTM D 1586

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PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC) GPJ PRIMARY.GDT 4/23/07



# LOG OF BORING 10-3

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/19/2007

GWT (ft): 1.5

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11		MEDIUM DENSE GRAYISH-TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	8-9-9		18		
	12	35	DENSE GREENISH-GRAY SILTY FINE TO MEDIUM SAND (SM)	8-18-25			43	
	13	40	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	8-20-30				50
	14	45	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	16-28-32				60
	15	50	VERY DENSE GREENISH-GRAY SILTY FINE TO MEDIUM SAND (SM)	17-23-31				54
			<i>BORING 10-3 TERMINATED AT A DEPTH OF 51.5 FEET</i>					
		55						
		60						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 7 INCHES.

Testing and Sampling in accordance with ASTM D 1586

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PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC) GPJ PRIMARY.GDT 4/23/07



# LOG OF BORING 11-1

**Project: PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

**Location: GEORGETOWN, SOUTH CAROLINA**

**SCI No.: 07070**

**Datum:** Ground Surface

**Elevation:** Assumed 0.0

**Date:** 03/20/2007

**GWT (ft):** 1.9

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	1		MEDIUM RED, ORANGE, AND TAN INORGANIC CLAY WITH SAND AND ROOT (CH)	3-3-5	8			
	2		VERY STIFF RED AND TAN INORGANIC CLAY WITH SAND (CH)	4-8-8	16			
	3	5	STIFF REDDISH-TAN INORGANIC CLAY WITH SAND (CH)	4-8-7	15			
	4		STIFF RED, ORANGE, AND TAN INORGANIC CLAY WITH SAND (CH)	5-7-8	15			
	5	10	VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	5-7-9	16			
	6		VERY DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	16-37-43				80
	7	15	VERY DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	14-33-31				64
	8		VERY DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	19-35-41				76
	9	20	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	14-31-34				65
	10	25	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	30-30-32				62
		30						

**Remarks:** SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 8 INCHES.

Testing and Sampling  
in accordance with  
ASTM D 1586

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PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC) GP1 PRIMARY.GDT 4/23/07



# LOG OF BORING 11-1

**Project: PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/20/2007

GWT (ft): 1.9

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11	14-22	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	29			51	
	12	26-33	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	29			62	
	13	2-4	MEDIUM DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	12	16			
	14	14-27	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	20			47	
	15	14-21	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	27			48	
			<i>BORING 11-1 TERMINATED AT A DEPTH OF 51.5 FEET</i>					
		55						
		60						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 8 INCHES.

Testing and Sampling  
in accordance with  
ASTM D 1586

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PRIMARY1 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC),GPJ PRIMARY,GDT 4/23/07



Construction Materials  
Non Destructive  
Geotechnical  
Environmental

# LOG OF BORING 11-2

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/21/2007

GWT (ft): 1.2

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	1	0-1	SOFT BROWN AND TAN INORGANIC CLAY WITH SAND AND ROOT (CH)	1-2-2	4			
	2	1-5	VERY STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	4-9-10		19		
	3	5-8	MEDIUM DENSE ORANGE AND TAN CLAYEY FINE TO MEDIUM SAND (SC)	8-11-10			21	
	4	8-11	STIFF ORANGE AND TAN INORGANIC CLAY WITH SAND (CH)	3-4-6		10		
	5	11-14	STIFF TAN INORGANIC CLAY WITH SAND (CH)	1-4-5			9	
	6	14-17	MEDIUM GRAY INORGANIC CLAY WITH SAND (CH)	1-2-4				6
	7	17-20	VERY DENSE GRAY AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	10-23-41				64
	8	20-23	VERY DENSE GRAY AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	17-22-31				53
	9	23-26	DENSE LIGHT-TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	14-20-23				43
	10	26-30	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	23-34-47				81

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 8 INCHES.

Testing and Sampling in accordance with ASTM D 1586

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PRIMARY: 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC).GPJ PRIMARY.GDT 4/23/07



# LOG OF BORING 11-2

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface      Elevation: Assumed 0.0      Date: 03/21/2007      GWT (ft): 1.2

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11	14-17	DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	14-17-24			41	
	12	14-30	VERY DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	14-30-30			60	
	13	9-20	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	9-20-30			50	
	14	20-34	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	20-34-31			65	
	15	12-26	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND WITH SHELL (SM)	12-26-31			57	
			<i>BORING 11-2 TERMINATED AT A DEPTH OF 51.5 FEET</i>					
		55						
		60						

Remarks: SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 8 INCHES.

Testing and Sampling  
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ASTM D 1586

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PRIMARY: 07070 (CONCEPTUAL BLDG, GTOWN BUSINESS PARK, GTOWN, SC), GPJ PRIMARY, GDT 4/23/07



# LOG OF BORING 11-3

**Project:** PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK

**Location:** GEORGETOWN, SOUTH CAROLINA

**SCI No.:** 07070

**Datum:** Ground Surface

**Elevation:** Assumed 0.0

**Date:** 03/21/2007

**GWT (ft):** 1.5

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
1	1	1-4	MEDIUM RED, ORANGE, AND TAN INORGANIC CLAY WITH SAND AND ROOT (CH)	1-1-4	5			
2	2	3-6-10	VERY STIFF RED, ORANGE, AND TAN INORGANIC CLAY WITH SAND (CH)	3-6-10	16			
3	3	6-11-14	VERY STIFF TAN INORGANIC CLAY WITH SAND (CH)	6-11-14	25			
4	4	3-6-8	STIFF TAN SANDY INORGANIC CLAY (CL)	3-6-8	14			
5	5	6-14-19	DENSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	6-14-19	33			
6	6	1-2-4	LOOSE ORANGE FINE TO MEDIUM SAND WITH SILT (SP-SM)	1-2-4	6			
7	7	2/18"--	VERY LOOSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	2/18"--	1			
8	8	1-6-23	MEDIUM DENSE GRAY FINE TO MEDIUM SAND WITH SILT (SP-SM)	1-6-23	29			
9	9	2-10-16	MEDIUM DENSE ORANGE AND TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	2-10-16	26			
10	10	20-42-31	VERY DENSE TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	20-42-31	73			

**Remarks:**

SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 7 INCHES.  
USED ROLLER ROCK BIT FROM 35' TO 50'.

Testing and Sampling  
in accordance with  
ASTM D 1586

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# LOG OF BORING 11-3

Project: **PROPOSED CONCEPTUAL BUILDING, GEORGETOWN COUNTY BUSINESS PARK**

Location: GEORGETOWN, SOUTH CAROLINA

SCI No.: **07070**

Datum: Ground Surface

Elevation: Assumed 0.0

Date: 03/21/2007

GWT (ft): 1.5

Strata	Sample	Depth (feet)	Visual Description (Unified Soil Classification System)	Blows/6"	"N" Values			
					0	25	50	75
	11		VERY DENSE TAN FINE TO MEDIUM SAND WITH SILT (SP-SM)	30-50-			50	
	12	35	VERY DENSE GREENISH-GRAY FINE TO MEDIUM SAND WITH SILT, CEMENTED NODULES, AND SHELL (SP-SM) <i>HARD LAYER ENCOUNTERED FROM 35'6" TO 36'0"</i>	55/6" - --				100
	13	40	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	13-26-33			59	
	14	45	DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	18-21-25			46	
	15	50	VERY DENSE GRAY SILTY FINE TO MEDIUM SAND (SM)	16-23-29			52	
			<i>BORING 11-3 TERMINATED AT A DEPTH OF 51.5 FEET</i>					
		55						
		60						

Remarks:

SHOVEL SAMPLE TAKEN ADJACENT TO BORING INDICATED VARYING ROOT CONTENT TO A DEPTH OF 7 INCHES. USED ROLLER ROCK BIT FROM 35' TO 50'.

Testing and Sampling in accordance with ASTM D 1586

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PRIMARY: 07070 CONCEPTUAL BLDG, G'TOWN BUSINESS PARK, G'TOWN, SC; G'PJ PRIMARY GDT 4/20/07

## Field Exploratory Procedures

### Soil Boring

Any soil boring is simply the process of advancing a hole in the ground by some means and obtaining samples of soil at stated intervals or at changes of stratum. In the usual procedure involving the Standard Penetration Test (SPT), the hole is advanced by augering or by use of rotary drills with various types of bits cutting the soil. The hole is cleaned with flight augers or with water being pumped to remove the cuttings.

When a sample is desired, a split-spoon sampler of 2 in. outside diameter and 1<sup>3</sup>/<sub>8</sub> in. inside diameter is lowered to the bottom of the hole, seated a distance of 6 in., and driven an additional foot into the soil with a standard weight (140 pounds) dropping a standard distance (30 inches). The number of blows required to drive the spoon the final foot is called the "N" value. As specified by the American Society for Testing and Materials, ASTM Designation D1586-98, the number of blows of the standard weight required to seat the sampler as well as the number of blows required to drive the sampler the final foot (in two 6" increments) is recorded on the boring log. Tables showing an approximate correlation between soil strength and "N" value are shown on Plate 2.

Usually, the zone most heavily stressed by the average foundation is within the top 10-20 feet of soil. Therefore, in all borings, we perform the SPT at ground surface and at 2½-foot intervals to a depth of 20 feet, and at 5-foot intervals thereafter to the depth of the boring. After each SPT has been made, the split-spoon sampler is brought to the surface and a visual description of the soil found in the sampler is recorded on the boring log. Each sample is then placed in a container to be returned to the laboratory for verification of the field classification. A minimum of 24 hours after completion of each boring, the depth of the ground water table (GWT) below the ground surface is measured. In the case of cohesionless soil, the position of the GWT is most critical, since a high water table decreases bearing capacity and increases settlement potential.

After the soil has been returned to the laboratory, its visual description is verified and the soil is graded in accordance with the Unified Soil Classification System (USCS). A brief description of the USCS and the different classes of soil are discussed on Plate 3.

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	Proposed Conceptual Building, Lots 10 and 11 Georgetown County Business Park Georgetown, South Carolina		
<b>PLATE 1</b>	DATE	PROJECT NO.	INITIALS
	April 10, 2007	07070A	WJ3

## Standard Penetration Tests and Soil Characteristics

The "standard" penetration resistance can be used as an indication of the density of granular soils (sands and gravels) and the apparent strength of cohesive soils (silts and clays).

### RELATIVE DENSITY OF GRANULAR SOILS

<i>Number of SPT Blows or "N" Value</i>	<i>Relative Density</i>
0 - 4	Very Loose
5 - 10	Loose
11 - 30	Medium (firm)
31 - 50	Dense
Over 50	Very Dense

### CONSISTENCY OF COHESIVE SOILS

<i>Number of SPT Blows or "N" Value</i>	<i>Consistency</i>
0 - 2	Very Soft
3 - 4	Soft
5 - 8	Medium (firm)
9 - 15	Stiff
16 - 30	Very Stiff
Over 30	Hard

While individual test boring records are considered representative of subsurface conditions at the respective boring locations on the dates the borings were performed, it is not warranted that they are representative of subsurface conditions at other locations and times.

THE ABOVE TABLES ARE BASED ON INFORMATION PRESENTED IN SOIL MECHANICS IN ENGINEERING PRACTICE BY DR. KARL TERZAGHI AND DR. RALPH B. PECK.

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<b>PLATE 2</b>	DATE	PROJECT NO.	INITIALS
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## Unified Soil Classification System

The Unified Soil Classification System (USCS) is the most widely used method for classifying soils according to their properties and characteristics. Essentially, there are two broad categories:

- **Coarse-grained soils** – soils that are gravelly and sandy in nature with less than 50% of the soil particles capable of passing through a standard No. 200 sieve (mesh openings measuring approximately 0.075 mm). The individual group symbols start with prefixes of either *G* (gravel or gravelly soil) or *S* (sand or sandy soil).
- **Fine-grained soils** – soils with more than 50% passing through a No. 200 sieve. The groups start with prefixes of *M* (inorganic silt), *C* (inorganic clay), *O* (organic silts and clays), and *Pt* (peat, muck and other highly organic soils).

Other symbols used are *W* (well-graded), *P* (poorly-graded), *L* (low plasticity) and *H* (high plasticity). Some common individual groups are as follows:

<b>Group Symbols</b>	<b>Soil Types</b>
GW	Well-graded gravels or gravel sand mixtures, little or no fines
GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
GM	Silty gravel, gravel-sand-silt mixtures
GC	Clayey gravels, gravel-sand-clay mixtures
SW	Well graded or gravelly sands, little or no fines
SP	Poorly graded sands or gravelly sands, little or no fines
SM	Silty sands, sand-silt mixtures
SC	Clayey sands, sand-clay mixtures
ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, clayey silts with slight plasticity
CL	Inorganic clays of low to medium plasticity, gravelly clays, silty clays, lean clays
OL	Organic silts and organic silt-clays of low plasticity
MH	Inorganic silts, micaceous or diatomaceous fine, sandy or silty soils, elastic silts
CH	Inorganic clays of medium to high plasticity, fat clays
OH	Organic clays of medium to high plasticity, organic silts
Pt	Peat and other highly organic soils

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<b>PLATE 3</b>	DATE	PROJECT NO.	INITIALS
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