



41 Perimeter Center East, Suite 250
Dunwoody, Georgia 30346
P (678) 382-6700 F (678) 382-6701
dunwoodyga.gov

Request for Proposal

RFP 15-08

North Peachtree Road Culvert Replacement

Michael G. Davis Mayor

Denis Shortal City Council Post 1
Jim Riticher City Council Post 2
Doug R. Thompson City Council Post 3

Terry Nall City Council Post 4
Lynn Deutsch City Council Post 5
John Heneghan City Council Post 6

Request for Proposal (RFP) 15-08 North Peachtree Road Culvert Replacement

Sealed Proposals for Purchasing RFP 15-08 North Peachtree Road Culvert Replacement Lump Sum Contract will be received by the City of Dunwoody, hereinafter called "City." Service providers whose proposals meet the criteria established in the Request for Proposals, at the sole discretion of the City, may be considered for Contract award. The City may, by direct negotiation, finalize terms with the service provider who is selected for award based on proposals. The City reserves the right to reject any or all responses for any reason. Clarification of information may be requested by the City.

The City, at its sole discretion, may short-list firms that are deemed to best meet the City's requirements, taking into consideration all criteria listed in the RFP. Negotiations will be conducted and may take place in person or via telephone with the most qualified firm as identified by the City or, if short-listing occurs, with all of the short-listed proposers. Proposers that participate in the negotiations may be given an opportunity to submit their best and final offers. The City of Dunwoody requires pricing to remain firm for the duration of the contract. Failure to hold firm pricing for the duration of the contract will be sufficient cause for the City to declare a proposal non-responsive.

A proposal must be submitted in a sealed envelope which shall be clearly marked RFP 15-08 and your company name. One (1) printed and signed unbound original, three (3) bound hard copies, including a printed copy of the Lump Sum Cost Proposal, (1) electronic copy in PDF of the proposal and a Lump Sum Cost Proposal. **The proposal shall be submitted no later than 2:00pm on July 14, 2015.** (Proposals will not be submitted by facsimile or e-mail). At which time noted, all proposals received will be publicly opened and read. Any proposal received after the time and date specified for the opening of the proposals will not be considered, but will be returned unopened.

A Pre-Proposal Conference will be held at 10:00am on June 23, 2015 at the project location adjacent to 5263 North Peachtree Road, Dunwoody, GA 30338. The conference will include a review of the proposal documents, and a question and answer period. Proposers are expected to be familiar with the proposal documents and to provide the City with any questions regarding the proposal documents at the Pre-Proposal conference or by the deadline for questions to be submitted.

Questions regarding proposals should be directed to John Gates, Purchasing Manager at purchasing@dunwoodyga.gov no later than 2:00pm on June 26, 2015. Proposals are legal and binding when submitted.

Proposal must be addressed as follows:

Purchasing Department
City of Dunwoody
41 Perimeter Center East, Suite 250
Dunwoody, GA 30346

No Proposal may be withdrawn for a period of ninety (90) days after the time and date scheduled (or subsequently rescheduled) for proposal opening.

The City's staff will review all proposals submitted. After reviewing the proposals, staff may, at its discretion, request formal presentations from one or more of the proposers (at proposer's expense at the City's site) whose proposals appear to best meet the City's requirements.

All companies submitting a bid will be notified in writing of award.

The selected contractor must be able to start work within 10 calendar days after the "Notice to Proceed" is issued. The time of completion for the project is as follows: 60 calendar days from October 15, 2015 for substantial completion and to include opening North Peachtree Road back to 2 lanes of traffic. 30 calendar days for the remainder of the required grassing, slope restoration, etc. and final acceptance by the City.

The proposer awarded the Contract must provide proof of liability insurance in the amount of one million dollars (\$1,000,000.00), along with any other required insurance coverage and evidence of business or occupational license, as outlined in the Proposal Documents.

The City reserves the right to waive any informalities or irregularities of proposals, to request clarification or information submitted in any proposal, to request additional information from any proposer, or to reject any or all proposals, and to re-advertise for proposals. The City also reserves the right to extend the date or time scheduled for the opening of proposals.

Award, if made, will be to the responsible and responsive proposer submitting the proposal which is deemed by the City, in the sole discretion, to be the most advantageous to the City, price and other factors being considered.

To ensure the proper and fair evaluation of proposals, the City highly discourages any communication initiated by a proposer or its agent to an employee of the City evaluating or considering the proposal during the period of time following the issuance of the RFP, the opening of proposals and prior to the time a decision has been made with respect to the Contract award. An appropriate Purchasing employee of the City may initiate communication with a proposer in order to obtain information or clarification needed to develop a proper and accurate evaluation of the proposal. Any communication initiated by proposer during evaluation should be submitted in writing and delivered to the City of Dunwoody, Purchasing Office, 41 Perimeter Center East, Suite 250, Dunwoody, Georgia 30346, or by e-mail to purchasing@dunwoodyga.gov or facsimile to (678) 533-0712. Unauthorized communication by the proposer may disqualify the proposer from consideration.

Please note that Section 12 of the Instructions to Proposers describes irregularities in proposals that may cause them to be rejected by the City. Included in these irregularities are those such as conditions, limitations, or unauthorized alternative proposals which may require the City to reject a proposal. Please seek the City's written advice BEFORE you submit a proposal containing any of the irregularities described in Section 12 of the Instructions to Proposers.

PART ONE – SCOPE OF WORK

- 1.1 The purpose of this Request for Proposal (RFP) is to select a qualified contractor for the replacement and installation of a concrete box culvert and associated roadway repairs per the terms of this contract and per the plans entitled “North Peachtree Road Culvert Replacement Project” prepared by Dewberry Engineers dated May 18, 2015.
- 1.2 The work consists of clearing, grubbing, grading, erosion control, excavation, detour signage, installation of pre-cast concrete box culvert, minor curb replacement, asphalt placement, milling and slope restoration, grassing, etc.
- 1.3 The construction will be based on the project specific engineering plans, mentioned above, and applicable DeKalb County and Georgia Department of Transportation construction specifications.
- 1.4 The contractor is responsible for calling for utility locations prior to the start of the project. It shall be the contractor’s responsibility to coordinate his work with any utility owner who may be in conflict with his work. Any utilities, public property, or private property damaged due to the contractor’s negligence during construction shall be replaced at the contractor’s expense. Georgia Power and AT&T will be encouraged to attend the pre-proposal meeting to facilitate early coordination.
- 1.5 The contractor will provide traffic control in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). The contractor will be responsible for coordinating with adjacent property owners to maintain access. Please see attached plans for additional details.
- 1.6 All work will be performed and completed to the complete satisfaction and acceptance of the City. Contractor shall guarantee all work for a period of one (1) year from the date of acceptance or first beneficial use, whichever is first, against defective materials, design, workmanship and improper adjustment. Contractor will abide by any and all applicable professional standards, local codes, manufacturers’ recommendations, and safe work practices and will secure any or all applicable permits or licenses to complete the described work.
- 1.7 The contractor will be responsible for restoring lawns and landscaped areas to pre-construction conditions. This includes reconnecting or repairing any damaged irrigation systems, installing new turf, and replacing any bed materials that have been removed. Turf replacement shall be with materials of like kind (i.e. Bermuda sod with Bermuda sod, fescue seed with fescue seed). Where visible, irrigation valves have been shown on the utility plans for convenience. The contractor is responsible for verifying the presence of irrigation systems and for coordinating relocation with the property owner.
- 1.8 Construction testing is to be paid for by the City. Coordination of testing is the responsibility of the Contractor. The Contractor shall schedule inspections at least 24 hours in advance.
- 1.9 The City has coordinated with the Kingsley neighborhood association regarding the closure of North Peachtree Road and for the culvert replacement and the necessary detouring of traffic during the 60 day substantial construction period as described below. At the request of the homeowners, the lake will not be drained until October 12, 2015, which will start the 60 day substantial construction period and road closure. The lake elevation will be lowered approximately 4’ from the normal full pool. To install subgrade of culvert, pumping will be required and contractors should bid accordingly.
- 1.10 The contractor shall start no later than 5 days after October 12, 2015. The time of completion is as follows: 60 calendar days from October 12, 2015 for substantial completion. In this contract, substantial completion means closure of the road, open cutting, removal of the existing culvert, installation of the new culvert with associated wing walls, backfilling, replacement of sub-base and pavement, and opening North Peachtree Road back up to 2 lanes of traffic. Failure to substantially complete the work within 60 days shall result in liquidated damages of \$2000 per day. 30 additional calendar days will be allowed to complete the remainder of the work such as grassing, slope restoration, etc. Liquidated damages of \$2,000 per day also apply to the 90 calendar day total completion requirement.

- 1.11 It is the intent of the City to have the contractor coordinate directly with applicable utility companies for all temporary utility relocations should it be necessary to achieve required clearances of overhead utility lines. All costs associated with temporary relocations of utilities such as pole relocations, temporary line relocations, etc., shall be paid by the contractor and included in the lump sum price cost proposal. It is the contractor's responsibility to assess the height of the overhead lines and determine if temporary utility relocations are necessary based on the type of equipment required to install the 9' X 4' precast reinforced concrete culvert.
- 1.12 Payment and Performance Bonds will be required on projects with costs over \$200,000.
- 1.13 Results of Geotechnical Exploration and Report are attached.

PART TWO – GENERAL CONDITIONS

- 2.4 The Contractor shall perform all of its obligations and functions under the Contract in accordance with the Contract specifications, industry standards and any manufacturers' specifications. The Contractor shall adjust and coordinate its activities to the needs and requirements of the City and perform its activities so as not to disturb, endanger, unreasonably interfere with or delay the operations or activities of the City.
- 2.5 During the performance of this Contract, the Contractor shall keep current and, if requested by the City, provide copies of any and all licenses, registrations or permits required by applicable governing agencies. The Contractor shall keep a copy of any and all licenses, registrations and permits on the job site while performing the Contract work.
- 2.6 The Contractor shall provide 48-hour advance notification to any property owner or tenant whose driveway access will be impacted. Such notification shall provide contact information of the construction foreman and City representative and shall provide any special instructions to be followed and provide contact information.
- 2.7 The contractor will be responsible for protecting the sidewalk from weather, traffic and vandalism during concrete curing. Any defects or defacement resulting from failure to protect the concrete will be repaired at the contractor's expense.
- 2.8 Upon the completion of the project, any excess items which might be left over from the construction related work shall be removed and disposed of properly by the contractor. The cost for such removal and disposal of such items will be included in other unit price bid. No claims will be considered for extra compensation.
- 2.9 Working hours are limited to Monday through Friday, 7:30 A.M. to 8:00 P.M. Working hours on Saturdays are allowed from 8:30 AM to 5:30 PM. No work is permitted on city-observed holidays. In the event an emergency condition is declared by the City's Manager or his respective designee, the Contractor will perform work during such hours as requested by the City.
- 2.10 The Contractor shall give supervision to the work and have a responsible foreman continuously on the job. There shall be at least one person in a position of responsibility on the site at all times who is capable of communicating in English.
- 2.11 Contractor shall have all vehicles marked with their company name.
- 2.12 The Contract shall perform project housekeeping/clean-up on a daily basis. A 24-hour contact must be provided to the City of Dunwoody Public Works for all issues as needed in regards to the project for any safety, signage, erosion control, or other emergency as needed. Construction area should be made safe during the entire duration of the project.
- 2.13 Contractor shall adequately protect workers, land owners or tenants, adjacent property, and the public during construction operations. The contractor shall plan and conduct the construction of the sidewalk projects to comply with local, state, and federal laws, rules and regulations and to exercise the highest degree of care to

safeguard persons and property from injury. Contractor will perform all services in compliance with applicable Federal Health and Safety laws currently in effect. Neither the giving of such special instructions by the City Representative nor the adherence thereto by contractor shall relieve contractor of the sole responsibility to maintain safe and efficient working conditions. Contractor shall require its employees to wear protective clothing, reflective vests, masks, eye protections, etc. during any operation as required or directed by applicable laws, regulations, ordinance, and/or direction by manufacturer of materials or equipment.

- 2.14 The Contractor shall be solely and completely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the work site and other persons including, but not limited to, the general public who may be affected thereby.
- 2.15 Contractor shall make every effort to ensure private property is not disturbed. Any disturbance of property outside right of way shall require City of Dunwoody and the property owner's written approval by way of a signed temporary construction easement.

PART THREE – PROPOSAL CONTENTS

Four (4) copies of the proposal (one original and three copies) including a printed copy of the Lump Sum Cost Proposal should be submitted in a sealed envelope. Proposals must be submitted in a sealed envelope which shall be clearly marked Purchasing RFP 15-08. Additionally provide one (1) electronic copy in PDF of the proposal and of the Lump Sum Cost Proposal. Entire length of proposal should be limited to a total of 30 pages. To aid in thorough and consistent review, the proposal shall be submitted on one-sided 8½" x 11" pages in no smaller than 10-point font and shall be organized and numbered to correspond to Section I through Section IV, with particular emphasis given to Section II:

- 2.1 SECTION I – Each proposal shall include a Title Page and a Table of Contents. The Title Page should identify the project; the name of the firm, name of the firm's primary contact, address, telephone number, fax number and email address. The Table of Contents shall contain the sections and corresponding page number for the items listed below. All pages of the proposal must be clearly identified and consecutively numbered and correspond to the Table of Contents.
- 2.2 SECTION II – Each proposer shall document its staff, experience and qualifications by describing the contractors experience with similar projects and the manner in which it plans to manage and staff the awarded contract, including the resumes of key and critical personnel, to successfully complete the project objectives.
- 2.2.1 Qualifications, including experience in the proposed project methodology and public sector and/or municipal experience;
- 2.2.2 Summary of experience, including the number of years of relevant experience and representative project experience with project name, client and date performed;
- 2.2.3 Description of any specialty equipment or capabilities;
- 2.2.4 Other supporting documentation which demonstrates the ability to successfully perform the work;
- 2.3 SECTION III – Cost Proposal
- 2.3.1 Lump Sum Cost for completing the designed project.
- 2.3.2 Additional unit cost for channel excavation (inclusive of haul off) per cubic yard. After substantial completion of the planned project, the city may require additional maintenance adjoining the project area.

- 2.3.3 Additional unit cost for type III stone riprap installation per square yard. After substantial completion of the planned project, the city may require additional channel maintenance adjoining the project area.
- 2.3.4 Additional Unit Cost for type I stone riprap installation per square yard. After substantial completion of the planned project, the city may require additional channel maintenance adjoining the project area.
- 2.4 SECTION IV – Each proposer is required to include three (3) verifiable references. Each proposer may, but is not required to include qualifications, resumes, and any other materials for similar contracts.
- 2.5 SECTION V – Required forms (acknowledgement of agenda, etc.)

PART FOUR - EVALUATION OF PROPOSALS

The City's staff will review all proposals submitted. After reviewing the proposals, staff may, at its discretion, invite to interview and demonstrate performance (at proposer's expense at the City's site) one or more of the proposers whose proposals appear to best meet the City's requirements. The purpose of such an interview would be for all proposers to elaborate upon their proposal before a recommendation for ranking of the proposals is made. Interview responses, and demonstration performance, along with the written proposal and samples (if any), will become part of proposer's submission to be evaluated pursuant to the evaluation criteria. The City reserves the right to short-list proposers for further consideration.

- 3.1 The City, in its discretion, may award the Contract(s) to the responsible and responsive proposer(s) submitting the proposal which is deemed to be the most advantageous to the City, price and other factors being considered. The following are the evaluation criteria the City will consider in determining which proposal is most advantageous to the City:
 - 3.1.1 Copy of business license and proof of being in business at least seven (7) years. Provide copy of State Contractor's License with name and phone of the registered agent.
 - 3.1.2 Name and telephone number of the Contractor's designated contact.
 - 3.1.3 Project Personnel: Provide information on personnel to be assigned to this project. Personnel should have experience from similar projects and in fields necessary to complete this proposed work.
 - 3.1.4 Similar Experience: List and describe your firm's projects worked on in the past five years that best match the scope and intent of the various projects. Identify unique constraints or challenges associated with those projects and how you addressed those in order to deliver a successful project. The City may request samples of comparable work during the proposal review process.
 - 3.1.5 Verifiable references of similar projects.
 - 3.1.6 Minimum Qualification require that the contractor shall have successfully installed at least one box or arch culvert in the past 24 months. The successful contractor must have a State Utility License.
 - 3.1.7 Cost Proposal

* * * * * END OF SPECIFICATIONS * * * * *

CONTRACT REFERENCES

List below customers for whom you have provided similar services in the past or with whom you are presently contracting. Ensure references below have been contacted and agree to provide the City with a reference including answers to questions posed by the City. References should relate to services of a type similar to the obligations presented in this proposal.

1. COMPANY NAME: _____

ADDRESS: _____

CONTACT PERSON: _____

PHONE NO.: _____

E-MAIL: _____

2. COMPANY NAME: _____

ADDRESS: _____

CONTACT PERSON: _____

PHONE NO.: _____

E-MAIL: _____

3. COMPANY NAME: _____

ADDRESS: _____

CONTACT PERSON: _____

PHONE NO.: _____

E-MAIL: _____

Company Name: _____

PROPOSAL FORM

RFP 2015–08 North Peachtree Road Culvert Replacement

The undersigned, as Proposer, hereby declares that this Proposal is in all respects fair and submitted in good faith without collusion or fraud. Proposer represents and warrants to the City that: (i) except as may be disclosed in writing to the City with its Proposal, no officer, employee or agent of the City has any interest, either directly or indirectly, in the business of the Proposer, and that no such person shall have any such interest at any time during the term of the Contract should it be awarded the Contract; and (ii) no gift, gratuity, promise, favor or anything else of value has been given or will be given to any employee or official of the City in connection with the submission of this Proposal or the City’s evaluation or consideration thereof.

The Proposer further represents that it has examined or investigated the site conditions if necessary, and informed itself fully in regard to all conditions pertaining to the place where the work is to be done; that it has examined the Contract Documents (available at [http://dunwoodyga.gov/index.php?section=for businesses doing business with the city procurement opportunities](http://dunwoodyga.gov/index.php?section=for_businesses_doing_business_with_the_city_procurement_opportunities)) and has read all Addendum(s) furnished by the City prior to the opening of the Proposals, as acknowledged below, and that it has otherwise fully informed itself regarding the nature, extent, scope and details of the services to be furnished under the Contract.

The Proposer agrees, if this Proposal is accepted, to enter into the written Contract with the City in the form of Contract attached (properly completed in accordance with said Proposal Documents), and the Contract Documents for RFP 15-08 North Peachtree Road Culvert Replacement, at the City of Dunwoody, and to furnish the prescribed evidence of a valid business license, insurance, and all other documents required by these Contract Documents. The Proposer further agrees to commence work and to perform the work specified herein within the time limits set forth in the Contract Documents, which time limits Proposer acknowledges are reasonable.

The undersigned further agrees that, in the case of failure or refusal on its part to execute the said contract, provide evidence of specified insurance, a copy of a valid business or occupational license and all other documents required by these Contract Documents within ten (10) business days after being provided with Notice of Intent to Award the contract (or such earlier time as may be stated elsewhere in these Proposal Documents), the Proposal award may be offered by the City to the next ranked Proposer, or the city may re-advertise for Proposals, and in either case the City shall have the right to recover from the Proposer the City’s costs and damages including, without limitation, attorney’s fees, to the same extent that the City could recover its costs and expenses from the Proposer under section 10 of the Instructions to Proposers if the Proposer withdrew or attempted to withdraw its Proposal.

The Proposer further agrees, if it fails to complete the work according to the Specification within the scheduled time or any authorized extension thereof, that damages may be deducted from the Contract price otherwise payable to the Proposer.

Acknowledgement is hereby made of the following Addendum(s) received since issuance of the Solicitation Documents (identified by number)

Addendum No.	Date	Addendum No.	Date	Addendum No.	Date
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

It shall be the responsibility of each Proposer to visit the City Purchasing Department’s website to determine if addendum(s) were issued and, if so, to obtain such addendum(s). Failure to acknowledge an addendum above shall

not relieve the Proposer from its obligation to comply with the provisions of the addendum(s) not acknowledged above.

Company Name: _____

Work is to commence on or about October 12, 2015. This contract shall be for one year with a one year City option for extension.

The City of Dunwoody requires pricing to remain firm for the duration of the initial term of the contract. Failure to hold firm pricing for the initial term of the contract will be sufficient cause for the City to declare bid non-responsive.

Termination for Cause: The City may terminate this agreement for cause upon ten days prior written notice to the Consultant of the Consultant's default in the performance of any term of this agreement. Such termination shall be without prejudice to any of the City's rights or remedies by law.

Termination for Convenience: The City may terminate this agreement for its convenience at any time upon 30 days written notice to the Consultant. In the event of the City's termination of this agreement for convenience, the Consultant will be paid for those services actually performed. Partially completed performance of the agreement will be compensated based upon a signed statement of completion to be submitted by the Consultant, which shall itemize each element of performance.

Termination for fund appropriation: The City may unilaterally terminate this Agreement due to a lack of funding at any time by written notice to the Consultant. In the event of the City's termination of this Agreement for fund appropriation, the Consultant will be paid for those services actually performed. Partially completed performance of the Agreement will be compensated based upon a signed statement of completion to be submitted by the Service Provider which shall itemize each element of performance.

The Proposer agrees to provide all work described in this document.

Legal Business Name _____

Federal Tax ID _____

Address _____

Does your company currently have a location within the City of Dunwoody? Yes ___ No ___

Representative Signature _____

Printed Name _____

Telephone Number _____

Fax Number _____

Email Address _____

The Proposer agrees, if this Proposal is accepted, to enter into the written Contract with the City in the form of Contract attached (properly completed in accordance with said Proposal Documents), and the Contract Documents for RFP 15-08 North Peachtree Road Culvert Replacement, at the City of Dunwoody, and to furnish the prescribed evidence of a valid business license, insurance, and all other documents required by these Contract Documents. The Proposer further agrees to commence work and to perform the work specified herein within the time limits set forth in the Contract Documents, which time limits Proposer acknowledges are reasonable.



Ahlberg
Engineering Inc.

525 Webb Industrial Drive
Suite A
Marietta, GA 30062

Telephone
(770) 919-9968

Fax
(770) 919-9964

April 10, 2015

Mr. David Elliot, P.E.
City of Dunwoody Public Works
41 Perimeter Center East
Suite 250
Dunwoody, GA 30346

**Re: Geotechnical Exploration and
Foundation Recommendations
North Peachtree Road - Culvert Replacement
North Peachtree Road
Dunwoody, Georgia
Project No. 01-155014**

Dear Mr. Elliot:

In compliance with your instructions, we have conducted a geotechnical exploration and foundation evaluation for the referenced project. The results, together with our recommendations, are to be found in the accompanying report being transmitted herewith.

Often because of design and construction details that occur on a project, questions arise concerning subsurface conditions. AEI would be pleased to continue its role as Geotechnical Engineer during the project implementation.

Very truly yours,
AHLBERG ENGINEERING, INC.

J. Tyler Wood, PE
Vice President

**GEOTECHNICAL EXPLORATION
AND
FOUNDATION RECOMMENDATIONS**

FOR THE PROPOSED

**North Peachtree Road - Culvert Replacement
North Peachtree Road
Project No. 01-155014**

PREPARED FOR

**City of Dunwoody Public Works
41 Perimeter Center East
Suite 250
Dunwoody, GA 30346**

BY

**Ahlberg Engineering, Inc.
525 Webb Industrial Drive
Suite A
Marietta, GA 30062
770-919-9968**

April 10, 2015

GEOTECHNICAL EXPLORATION
AND
FOUNDATION RECOMMENDATIONS
INTRODUCTION

Authorization

This report presents the results of a geotechnical exploration and foundation analysis for the proposed North Peachtree Road - Culvert Replacement, conducted for City of Dunwoody Public Works. The work for this project was performed in accordance with our Proposal No. P-15066 dated March 18, 2015. Authorization to perform this exploration and analysis was in the form of a signed copy of that proposal.

Purpose

The purpose of this exploration was to evaluate the soil and groundwater conditions at the site and to recommend a type and depth of foundation system suitable for the proposed structure as well as to provide criteria for the Architects and Design Engineers to use in preparing the foundation design.

Scope

The scope of the exploration and analysis included a reconnaissance of the immediate site, the subsurface exploration, field testing, and an engineering analysis and evaluation of the foundation materials.

The scope of services did not include any environmental assessment for the presence or absence of wetlands or hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below or around this site. Any statement in this report or on the boring logs regarding odors, colors or unusual or suspicious items or conditions is strictly for the information of the client.

General

The general subsurface conditions used in the analysis were based upon interpolation of the subsurface data between the borings. There is a possibility that varying conditions may be encountered between boring locations. If deviations from the noted subsurface conditions are encountered during construction, they should be brought to the attention of the Geotechnical Engineer.

The recommendations submitted for the proposed structure are based on the available soil information and the preliminary design details. Any revision in the plans for the proposed structure, from those described in this report, should be brought to the attention of the Geotechnical Engineer to determine if changes in the foundation recommendations are required.

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein, have been presented after being prepared in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics and engineering geology. No other warranties are implied or expressed.

After the plans and specifications are complete, it is recommended that the Geotechnical Engineer be provided the opportunity to review the final design and specifications, in order to verify that the earthwork and foundation recommendations are properly interpreted and implemented.

This report has been prepared for the exclusive use of City of Dunwoody Public Works for the specific application to the North Peachtree Road - Culvert Replacement project.

DESCRIPTION OF SITE

Site Location

The culvert is located beneath North Peachtree Road between North Peachtree Way and Waterton Court in Dunwoody, Georgia. A tributary which feeds Kingsley Lake drains from northwest to the southeast through the culvert.

Site Topography

Approximately ten (10) feet of fill has been placed beneath North Peachtree Road in the area of the tributary. The tributary coincides with a high tension GA Power easement. Higher elevations are present to the west and lower elevations are present to the east at Kingsely Lake. An existing CMP pipe acts as a culvert for the tributary. A small drainage channel from the culvert to the head of the lake is present to the east of the existing culvert.

GEOLOGY

General Area Geology

Dunwoody, Georgia is located in the Piedmont Physiographical Province which covers a broad strip extending from central Alabama across Georgia, the Carolinas and Virginia, and tapering out to an end in the vicinity of Baltimore and Philadelphia. Crystalline rocks that were formed under tremendous heat and pressure underlie the entire region. The oldest rocks consist of gneisses and schists that were formed by the metamorphism of ancient sediments and igneous rock in the Pre-Cambrian Era. These rocks have been intruded by large quantities of igneous rocks. The intrusive are of two classes, distinguished by structure and rock type. The older intrusive are massive in structure and few extend above ground level (except Stone Mountain). The younger intrusions are in the form of narrow dikes and sills of varied composition. Some are granitic in nature and include many varieties of granite and granite pegmatite. Others are basic or trap rock. These include diabase, amphibolite and their altered forms. The region is cut by many faults; however, the faults are classified as ancient and have been inactive during recent times.

A typical soil profile in the Piedmont Region consists of three zones. The upper zone is crust, three to ten feet in thickness, made up of deep red silty clay or clayey silt soils. These soils are generally quite stiff. The intermediate zone, which is comparatively softer than the overlying crust, consists of micaceous sandy silts or silty sand soils. Unlike the upper zone that has been subject to severe weathering and leaching, the soils in the intermediate zone still retain the remnants of structures from their parent rock as seen in the strong banding of these soils. This is characteristic of residual soils, formed by the in-situ weathering of the parent bedrock. The third zone is that area of partially weathered rock just above sound bedrock. Soils in this zone consist of gravelly micaceous silts to silty sands and may be seen in alternating hard and soft layer.

Natural processes man-made processes or a combination of both may alter this profile. Surface water movement or excavation, thus removing part or all of the upper components, often erodes landforms. Likewise, fill placement or alluvial deposition can add strata that would not be typical of in-situ weathering of the parent material.

FIELD EXPLORATION

Scope

The field exploration to evaluate the engineering characteristics of the foundation materials included a reconnaissance of the project site, drilling the test borings, performing standard penetration tests, and recovering split barrel samples. The depth to groundwater was recorded in each test boring during drilling.

Two (2) test borings were drilled to a depth of twenty-five (25) feet below the existing ground surface. They were made in the locations determined by The City of Dunwoody. The field tests were located in the field by the AEI Engineers utilizing normal taping procedures. They are presumed to be accurate to within a few feet. The locations are shown on the accompanying Boring Location Plan. After completion of the field testing, the excavations were backfilled with excavated soil.

Drilling and Sampling Procedures

A drilling rig equipped with a rotary head made the test borings. Hollow-stem augers were used to advance the holes. Representative samples were obtained employing split-barrel sampling procedures in general accordance with the procedures for "Penetration Test and Split-Barrel Sampling of Soils" (ASTM D 1586).

For the advancement of Boring B-2 below the water table, mud rotary boring techniques were performed in general accordance with ASTM D 5783. In mud rotary drilling, a rotating tri-cone bit is advanced into the substrate by the drill rig. A boring mud, bentonite clay slurry, circulates in the boring hole bringing the cuttings to the surface as well as maintaining borehole integrity. The boring hole was advanced to each sampling depth by this method.

All of the samples recovered were identified and evaluated by the Geotechnical Engineer.

Field Tests and Measurements

Penetration Tests - During the soil boring procedure, standard penetration tests (SPT) were performed at pre-determined intervals to obtain the standard penetration value of the soil. The standard penetration value (N) is defined as the number of blows of a 140-pound hammer, falling thirty (30) inches, required to advance the split-barrel sampler one (1) foot into the soil. The sampler is lowered to the bottom of the previously cleaned drill hole and advanced by blows from the hammer. The number of blows is recorded for each of three (3) successive increments of six (6) inches penetration.

The "N" value is obtained by adding the second and third incremental numbers. The results of the standard penetration test are shown on the Boring Logs and indicate the relative density of cohesionless soils and comparative consistency of cohesive soils, and thereby provide a basis for estimating the relative strength and compressibility of the soil profile components.

Water Level Measurements - Water level measurements were taken during the test boring operations. They are noted on the test boring logs presented in the Appendix.

Ground Surface Elevations – No elevations were provided for use in this report.

SUBSURFACE CONDITIONS

General

The soil test borings were performed in the shoulder on either side of North Peachtree Road. The types of foundation bearing materials encountered in the test borings have been visually classified. They are described on the boring logs. The results of the field tests and water level observations are presented on the boring logs.

Representative samples of the soils were placed in sample jars. They are now stored in the laboratory for further analysis if desired. Unless notified to the contrary, all samples will be disposed of after sixty (60) days.

Soil Conditions

Topsoil – A topsoil thickness of four (4) inches was encountered in both borings.

Fill – Approximately ten (10) feet of fill soils were encountered in both borings. The fill soils consisted primarily of reddish brown sandy silts. The standard penetration values measured in these soils ranged from two (2) to six (6) indicating poorly to moderately compacted material.

Alluvial – Below the fill soils, alluvial deposited soils were present in both borings. The alluvial soils consisted of a gray micaceous clayey sand and silty sand. The standard penetration values measured in these soils ranged from three (3) to eleven (11) indicating material which is very loose to medium dense in relative density.

Residual – Beneath the alluvial soils, residual soils were encountered. Residual soils consisted primarily of brown and white silty sands. The standard penetration values measured in the soils ranged from three (3) to nineteen (19) indicating material which is very loose to medium dense in relative density.

Groundwater Conditions

Groundwater was encountered at a depth of approximately ten (10) feet below the existing ground surface.

Refusal Materials

Refusal materials were not encountered in either boring.

FOUNDATION DISCUSSION AND RECOMMENDATIONS

Project Description

The project consists of the replacement of the existing culvert beneath North Peachtree Road. This culvert drains a tributary beneath North Peachtree Road into the head of Kingsley Lake. The current CMP culvert has been partially filled due to poor downstream flow. As a result of this reduced pipe capacity, frequent flooding of the road occurs. The City of Dunwoody is planning on replacing the existing CMP culvert with a four (4) foot concrete box culvert to improve the drainage. The proposed invert elevation for the pipe is approximately two feet below the existing groundwater surface, which is approximately twelve (12) feet below the existing grade of the road shoulder.

Engineering Analysis

Existing Fill Material - Poorly compacted fill material was encountered in both borings in the embankment above the creek elevation. The fill material was wet and will need to be dried if re-used for structural backfill. All of the existing backfill surrounding the CMP should be also removed during replacement process.

Dewatering - Dewatering will be necessary to lower the groundwater prior to foundation stabilization. Pumping and/or re-routing of the existing stream should be performed.

Stabilization – Below the existing embankment fill material, soft to firm alluvial soils were encountered. The soft soils will need to be over-excavated and stabilized in order to provide a uniform bearing surface as well as a construction platform for the placement of the concrete box culvert.

Varying Conditions - The boring locations were limited to the shoulders of the existing road. Varying subsurface conditions may be encountered beneath the roadway.

Recommendations

1. The existing culvert and backfill should be removed.
2. Dewatering techniques (e.g. damming, pumping, and/or rerouting of the stream) should be performed prior to stabilization efforts. Efforts should be made to lower the groundwater five (5) feet below the existing levels.

3. Below the proposed invert elevation of the new concrete culvert, the culvert footprint should be undercut approximately three (3) feet.
 - A woven geotextile fabric (Amoco 2006 or equivalent) with a minimum tensile strength of 300# should be placed at the bottom of the undercut and be extended upon the sides of the excavation.
 - Approximately two (2) baby surge stone should be placed on top of the fabric.
 - Approximately one (1) foot of #34 stone should be placed on top of baby surge stone.
 - The woven fabric should be wrapped back on top of the #34 stone.
4. All of the stabilization material should be present at the commencement of stabilization efforts to ensure that minimal extra material is required.
5. Structural fill materials should be free of organic matter and be compacted to a minimum of 95 percent of the maximum dry density within $\pm 3\%$ of the optimum moisture content as determined by Standard Proctor ASTM D 698.
6. Fill slopes should be compacted in horizontal lifts not to exceed six (6) inches in compacted thickness. Where there are existing slopes, benches should be excavated into the existing slope to “key” the new fill into the existing slope.
7. Fill should be placed in six (6) inch lifts (compacted thickness) in mass fill areas and as needed to obtain proper compaction in utility trenches and behind walls.
8. A representative of the Geotechnical Engineer should monitor filling operations. A sufficient number of density tests should be taken to verify that the specified compaction is obtained.

GENERAL COMMENTS

When the plans and specifications are complete, or if significant changes are made in the character or location of the proposed structure, a consultation should be arranged to review the changes with respect to the prevailing soil conditions. At that time it may be necessary to submit supplementary recommendations.

Respectfully submitted,
AHLBERG ENGINEERING, INC.



J. Tyler Wood, PE
Vice President



BORING LOCATION PLAN

AHLBERG ENGINEERING, INC.

Project Name
 North Peachtree Road -
 Culvert Replacement
 North Peachtree Road
 Dunwoody, Georgia

 Boring Location

PROJECT NO.
 01-1550014 revised

DATE
 04/03/15

Ahlberg Engineering Inc.

BORING LOG

Boring: B-1

Project Name: North Peachtree Road - Culvert Replacement
North Peachtree Road
Dunwoody, Georgia

Date of Boring: 04/03/15

Project No.: 01-155014

DESCRIPTION	DEPTH	ELEV.	SAMPLE	N	M _c	REMARKS
Topsoil = 4"						
FILL; Reddish brown sandy SILT with some clay, moist to very moist			SS1	3		
	5		SS2	6		
			SS3	4		
ALLUVIAL; Gray micaceous clayey SAND with some silt, wet	10		SS4	3		 0 HR
RESIDUAL: Brown and white micaceous silty SAND, wet	15		SS5	3		
	20		SS6	5		
	25		SS7	19		
Boring terminated at -25 feet						
	30					
	35					
	40					
	45					

N - Standard Penetration Value (ASTM D 1586)

M_c - Moisture Content, % (ASTM D 2216)



- Water Level Measured in Bore Hole

Ahlberg Engineering Inc.

BORING LOG

Boring: B-2

Project Name: North Peachtree Road - Culvert Replacement
North Peachtree Road
Dunwoody, Georgia

Date of Boring: 04/03/15

Project No.: 01-155014

DESCRIPTION	DEPTH	ELEV.	SAMPLE	N	M _c	REMARKS
Topsoil = 4"						
FILL; Reddish brown sandy SILT with some clay, moist to very moist			SS1	4		
	5		SS2	2		
			SS3	5		
	10		SS4	11		 0 HR
ALLUVIAL; Gray micaceous clayey SAND with some silt, wet			SS5	7		
	15		SS6	4		
RESIDUAL: Brown, white, and gray micaceous silty SAND, wet						
	20		SS7	7		
	25		SS8	10		
Boring terminated at -25 feet						
	30					
	35					
	40					
	45					

N - Standard Penetration Value (ASTM D 1586)

M_c - Moisture Content, % (ASTM D 2216)



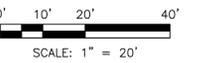
- Water Level Measured in Bore Hole

SEAL



KEY PLAN

SCALE



No.	DATE	BY	Description

REVISIONS

DRAWN BY _____ GL
APPROVED BY _____ SLF
CHECKED BY _____ SLF
DATE _____ 2015.05.11

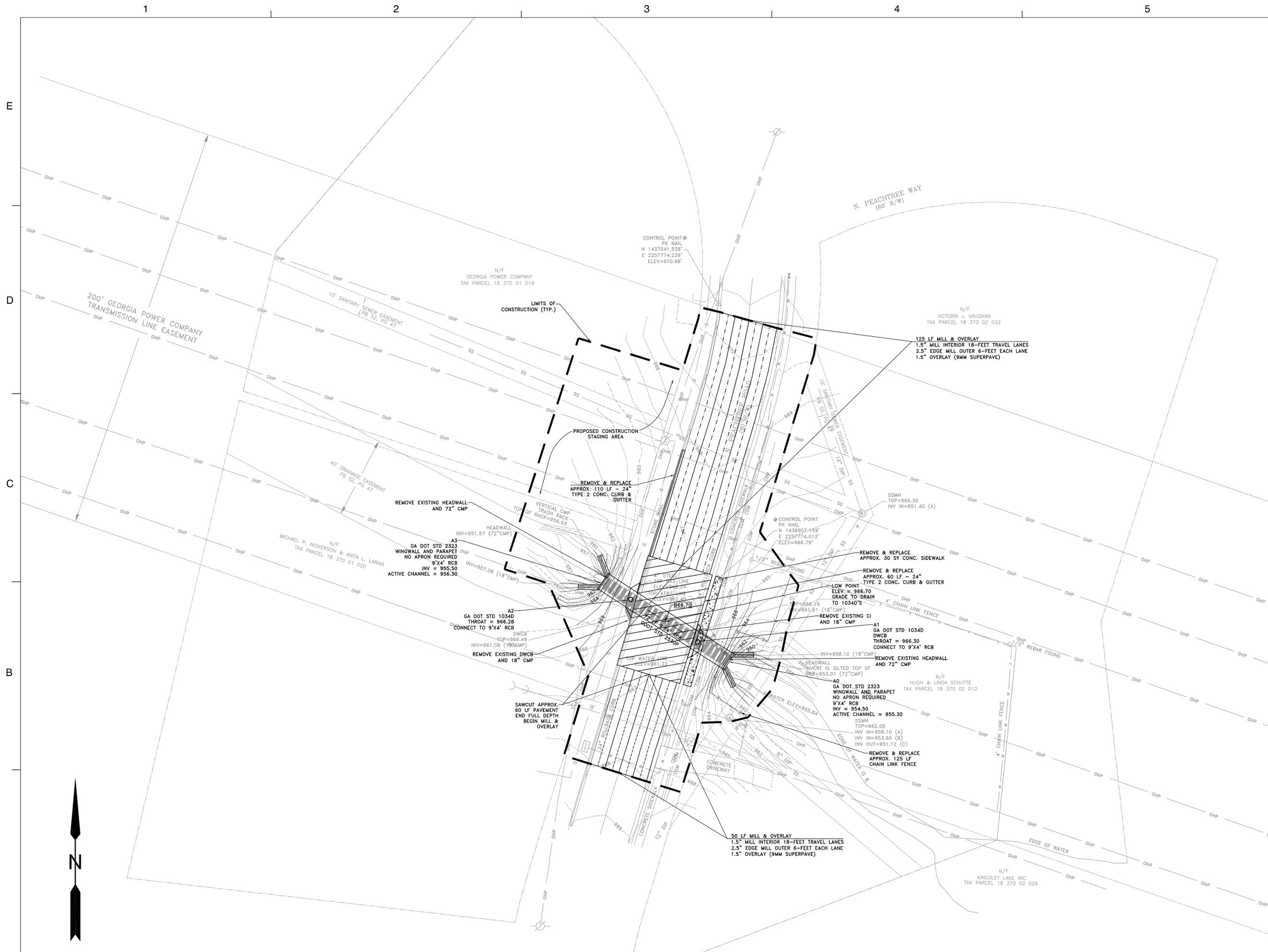
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PROJECT NO. 50073208

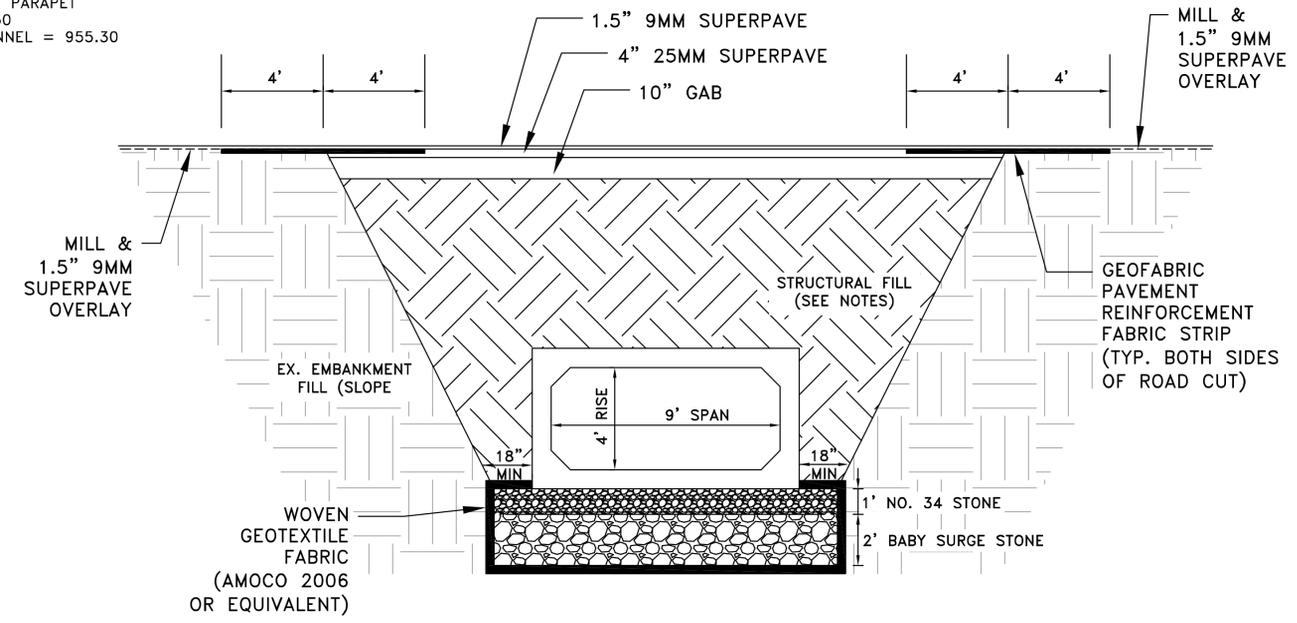
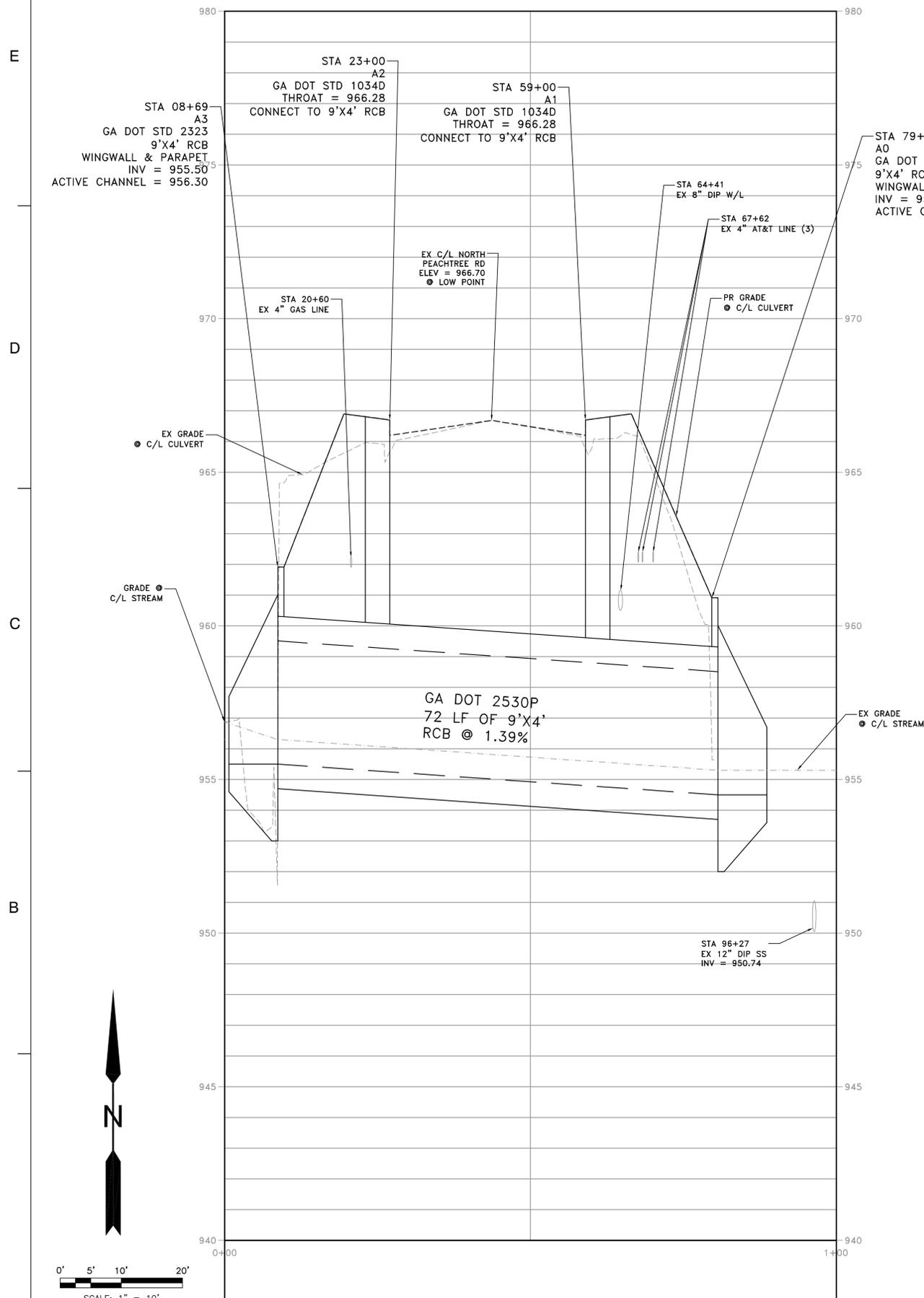
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CULVERT ALIGNMENT PROFILE (1"=10' H; 1"=2' V)



ROAD CUT & BEDDING DETAILS (NTS)

- NOTES:**
- STRUCTURAL FILL MATERIALS TO BE FREE OF ORGANIC MATERIAL AND BE COMPACTED TO A MIN. OF 95% MAXIMUM DRY DENSITY WITHIN +/-3 OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY STANDARD PROCTOR ASTM D 698.
 - FILL TO BE COMPACTED IN 6 INCH (MAX.) LIFTS. WHERE THERE ARE EXISTING SLOPES, BENCHES ARE TO BE EXCAVATED TO KEY FILL INTO EXISTING SLOPE.
 - GEOTEXTILE FABRIC TO WRAP ON TOP OF FOUNDATION BACKFILL MATERIAL TYPE II
 - EXCAVATION, HAULING, STAGING, BACKFILL (INCLUDING STRUCTURAL FILL), DISPOSAL OF UNSUITABLE MATERIALS, AND STONE BEDDING TO BE INCLUDED IN THE COST FOR GRADING COMPLETE.
 - BITUMINOUS TACK COAT SHALL BE APPLIED PER GDOT SPECIFICATIONS AND INCIDENTAL TO THE COST OF ASPHALT PAVEMENT BID ITEMS.



Dewberry
2535 Brandywine Road, Suite 100
Atlanta, GA 30341
Phone: 678.530.0022
Fax: 678.530.0044

CITY OF DUNWOODY

CITY OF DUNWOODY
41 Perimeter Center East, Suite 250
Dunwoody, GA 30346

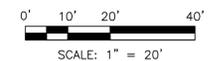
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DUNWOODY, GA
**NORTH PEACHTREE ROAD
CULVERT REPLACEMENT
PROJECT**
5270 & 5263 NORTH PEACHTREE RD.
DUNWOODY, GA 30338
CONSTRUCTION PLANS

SEAL



KEY PLAN

SCALE



No.	DATE	BY	Description

REVISIONS

No.	DATE	BY	Description

DRAWN BY: _____ CL
APPROVED BY: _____ SLF
CHECKED BY: _____ SLF
DATE: 2015.05.11

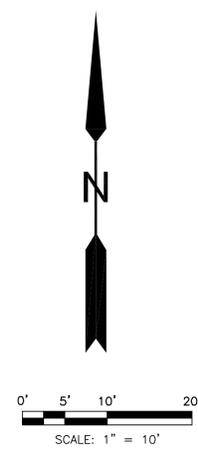
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**DRAINAGE
PROFILES**

PROJECT NO. 50073208

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1

2

3

4

5

E

D

C

B

E&S LEGEND

LIMITS OF DISTURBANCE	---
Sd1-C SEDIMENT FENCE	— C —
Rd ROCK FILTER DAM	[Pattern]
TEMPORARY MULCHING	Ds1
TEMPORARY SEEDING	Ds2
PERMANENT SEEDING	Ds3
Sd2-P CURB INLET PROTECTION	[Pattern]
Mb EROSION CONTROL MAT	[Pattern]



Dewberry
 2535 Bredywine Road, Suite 100
 Atlanta, GA 30341
 Phone: 678.530.0022
 Fax: 678.530.0044

CITY OF DUNWOODY

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 Dunwoody, GA 30346

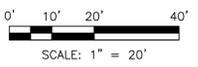
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 DUNWOODY, GA
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 CULVERT REPLACEMENT
 PROJECT**
 5270 & 5263 NORTH PEACHTREE RD.
 DUNWOODY, GA 30338
 CONSTRUCTION PLANS

SEAL



KEY PLAN

SCALE



No.	DATE	BY	Description

REVISIONS

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APPROVED BY	_____	SLF
CHECKED BY	_____	SLF
DATE	_____	2015.05.11

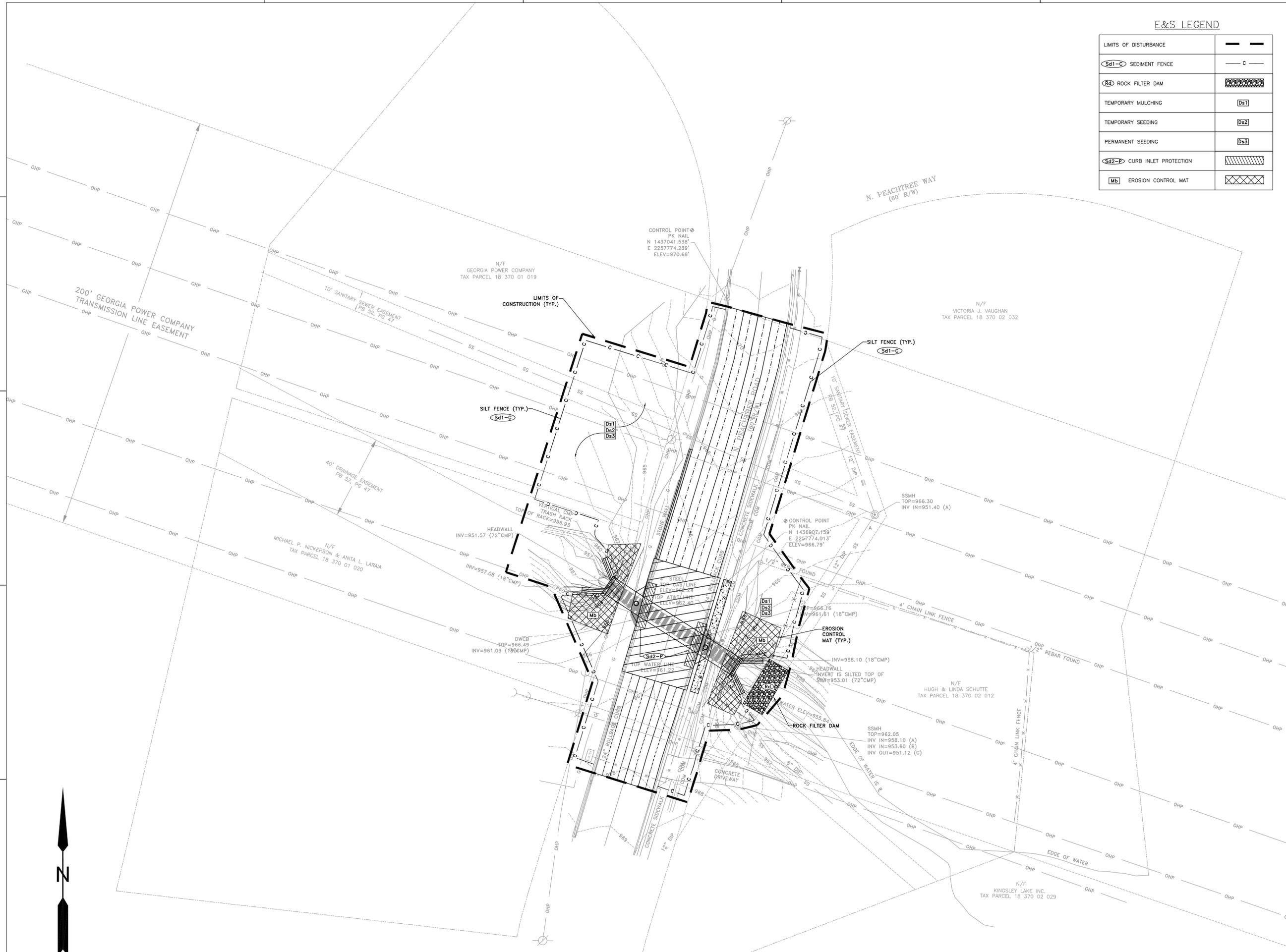
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**EROSION &
 SEDIMENT
 CONTROL
 PLAN**

PROJECT NO. 50073208

C3.01

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OFFEROR'S RFP CHECKLIST

10 Critical Things to Keep in Mind When Responding to an RFP for the City of Dunwoody

1. _____ **Read the *entire* document.** Note critical items such as: supplies/services required; submittal dates; number of copies required for submittal; contract requirements, if any (e.g. bonding and insurance requirements).
2. _____ **Note the Purchasing Manager's name, address, phone numbers and e-mail address.** This is the only person you are allowed to communicate with regarding the RFP and is an excellent source of information.
3. _____ **Attend the pre-proposal conference** if one is offered. These conferences provide an opportunity to ask clarifying questions, obtain a better understanding of the Project, or to notify the City of any ambiguities, inconsistencies, or errors in the RFP. This conference may be mandatory.
4. _____ **Take advantage of the "question and answer" period.** Submit your questions to the Purchasing Manager by the due date listed in the *Schedule of Events* and view the answers given in the formal "addenda" issued for the RFP. All addenda issued for an RFP will be distributed by email to the RFP participants.
5. _____ **Follow the format required in the RFP** when preparing your response. Provide point-by-point responses to all sections in a clear and concise manner.
6. _____ **Provide complete answers/descriptions.** Read and answer **all** questions and requirements. Don't assume the City or Evaluation Committee will know what your company capabilities are or what items/services you can provide, even if you have previously contracted with the City. The responses are evaluated based solely on the information and materials provided in response to the RFP.
7. _____ **Use the forms provided**, e.g. cover page, reference questionnaire, etc.
8. _____ **Review the RFP document again** to make sure that you have addressed all requirements. Your original response and the requested copies must be identical and complete. The copies are provided to the Evaluation Committee members and will be used to rank your submittal.
9. _____ **Submit your proposal on time.** Note all the dates and times listed in the *Schedule of Events* and within the document, and be sure to submit all required items on time. Late proposals will not be accepted.

This checklist is provided for assistance only and should not be submitted with Offeror's proposal.