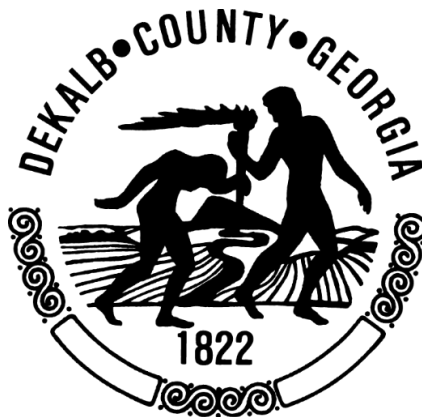


Invitation to Bid

ITB No. 16-100790

Fairoaks Road Water Main Replacement Project



**for
DeKalb County, Georgia**

Bid Due Date & Time:
Location:

January 3, 2017 at 3:00 p.m. EDT
Department of Purchasing and Contracting
The Maloof Center
1300 Commerce Drive, 2nd Floor
Decatur, GA 30030

Senior Procurement Agent:

Teresa Slayton, CPPB, CPP, CPPM, CPPC,
CICCM, CISM, GCPA, GCPM
Email: trslayton@dekalbcountyga.gov
Phone: (404) 371-2614

DEKALB COUNTY

STANDARD FORM

NUMBER 7

BID DOCUMENT PACKAGE

FOR

INVITATION NO.

DEKALB COUNTY, GEORGIA

1300 Commerce Drive

Decatur, Georgia 30030

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**DeKalb County
Department of Purchasing and Contracting**

Talisa R. Clark, MBA, CPPO, Interim Chief Procurement Officer



DEKALB COUNTY, GEORGIA

INVITATION TO BID (ITB) No. 16-100790

Sealed Bids will be received by DeKalb County, Georgia, in the Department of Purchasing and Contracting, The Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030, no later than **Tuesday, January 3, 2017 at 3:00 P.M. EDT.**, at which time and place they will be publicly opened and read aloud, for furnishing all labor, materials, equipment, and all things necessary pursuant to Drawings, Specifications, conditions, etc., for **ITB No. 16-100790 FAIROAKS ROAD WATER MAIN REPLACEMENT** (“the Project”).

ONE ORIGINAL BID AND TWO IDENTICAL COPIES MUST BE SUBMITTED ON THE DATE AND AT THE TIME AND PLACE PRESCRIBED ABOVE.

Contract Documents, Drawings, and Specifications for this Work are on file and open for inspection at the Department of Purchasing and Contracting, The Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030. Bids will be considered only from experienced and well-equipped contractors.

DeKalb County Department of Watershed (DWM) Design and Construction Standards can be purchased for \$25 from DeKalb County’s DWM: 4572 Memorial Drive, Decatur, Georgia 30032, phone number (770) 414-2383. All bids/proposals shall be evaluated in accordance with applicable DeKalb County rules, regulations and laws.

PRE-BID CONFERENCE

A **mandatory** Pre-Bid Conference will on **Tuesday, December 20, 2016 at 10:00 A.M. EDT**, at the Clark – Harrison Building, Conference Room A, 330 W. Ponce de Leon Avenue, Decatur, GA 30030. The purpose of the Pre-Bid Conference is to provide Bidders with detailed information regarding the Procurement process and to address questions and concerns. There will be representatives from the Department of Watershed Management, the Department of Local Small Business Enterprise (“LSBE”), Office of Workforce Source and the Department of Risk Management, Owner Controlled Insurance Program (“OCIP”) available at the conference to discuss this project and to answer any questions. Bidders are strongly encouraged to attend and participate in the pre-bid conference.

QUESTIONS

All questions concerning the Project and requests for interpretation of the Contract may be asked and answered at the pre-bid conference; however, oral answers are not authoritative. Questions must be submitted to the Department of Purchasing and Contracting in writing by the following

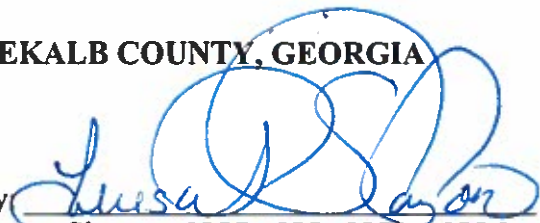
method: via email to Teresa Slayton, CPPB, CPP, CPPM, CPPC, CICCM, CISM, GCPA, GCPM at trslayton@dekalbcountyga.gov no later than **Tuesday, December 27, 2016 at 1:00 P.M. EDT**. Questions and requests for interpretation received by the Department of Purchasing and Contracting after this date will not receive a response or be the subject of addenda.

No Bid may be revoked or withdrawn until sixty (60) days after the time set for opening the Bids.

THE COUNTY RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS, TO WAIVE INFORMALITIES IN BIDDING, AND TO READVERTISE.

This ___ day of _____, 20__.

DEKALB COUNTY, GEORGIA

By 
Teresa Slayton, CPPB, CPP, CPPM, CPPC,
CICCM, CISM, GCPA, GCPM
Senior Procurement Agent
Department of Purchasing and Contracting

WLS

Instructions to Bidders

INSTRUCTIONS TO BIDDERS

GENERAL

Sealed Bids will be received by DeKalb County, Georgia, in the Department of Purchasing and Contracting, The Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030, no later than **Tuesday, January 3, 2017 at 3:00 P.M. EDT.**, for the Invitation to Bid entitled **ITB No. 16-100790, Fair Oaks Road Water Main Replacement Project**, which is on file in the Department of Purchasing and Contracting, The Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030. Sealed Bids shall be submitted on the form furnished by the County and shall be submitted in **triplicate**, designated as original or copy. **ONE ORIGINAL BID AND TWO IDENTICAL COPIES MUST BE SUBMITTED ON THE DATE AND AT THE TIME AND PLACE PRESCRIBED ABOVE.**

Complete Drawings, Specifications and Bid forms may be obtained from the DeKalb County Department of Watershed (DWM) Design and Construction Standards can be purchased for \$25 from DeKalb County's DWM: 4572 Memorial Drive, Decatur, Georgia 30032, phone number (770) 414-2383. Bids will be considered only from experienced and well-equipped contractors. Prior to beginning construction, the successful Bidder will file with the County a Performance Bond and a Payment Bond, each equal to 100% of the Contract Price, with the terms and surety to be approved by the County; and furnish satisfactory proof of carriage of the insurance required.

PRE-BID CONFERENCE

A **mandatory Pre-Bid Conference** will on **Tuesday, December 20, 2016 at 10:00 A.M. EDT**, at the Clark – Harrison Building, Conference Room A, 330 W. Ponce de Leon Avenue, Decatur, GA 30030. The purpose of the Pre-Bid Conference is to provide Bidders with detailed information regarding the Procurement process and to address questions and concerns. There will be representatives from the Department of Watershed Management, the Department of Local Small Business Enterprise (“LSBE”), Office of Workforce Source and the Department of Risk Management, Owner Controlled Insurance Program (“OCIP”) available at the conference to discuss this project and to answer any questions. Bidders are strongly encouraged to attend and participate in the pre-bid conference.

SUBMITTING BIDS

Bids are to be submitted on the proper unaltered forms, and shall be addressed to the DeKalb County Department of Purchasing and Contracting, The Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030, sealed, dated and enclosed in an envelope or package appropriately marked on the outside with the name of the Bidder, the date and hour of opening, and the Invitation to Bid Number and Project Name. *For a lump sum bid, the form entitled “Bidder’s Lump Sum Bid” shall be used. For unit price bids, the Bidder shall use the “Bidder’s Unit Price” form. 8*

COUNTY CHANGES TO FORMAL SOLICITATIONS: (Invitation to Bids (ITB) and Request for Proposals (RFP))

The County reserves the right to change any part of the Bid/Proposal Package any time prior to the bid/proposal opening. Any changes shall be in the form of addenda which shall become a part of the solicitation documents and the Contract. Addenda shall be made available via the County’s website where the original solicitation documents were posted. A respondent’s failure to address the requirements of any addendum may result in that bid/proposal being rejected as non-responsive.

The County reserves the right to modify any sample County contract within the Bid/Proposal Package.

COUNTY CHANGES TO CONTRACTS/AGREEMENTS

The County may, from time to time, request changes in the Scope of Work to be performed by Contractor hereunder. No such change, including any increase or decrease in the amount of the compensation, which may be mutually agreed upon by and between the County and Contractor, shall be effective and enforceable until and unless a written amendment or change order to the Contract/Agreement has been executed by both parties and attached hereto.

REJECTION OF BIDS/PROPOSALS

Bids/Proposal may be rejected if they show omissions, alterations of form, addition not called for, conditions, limitations, unauthorized alternate Bids/Proposals or other irregularities of any kind. The County reserves the right to waive any informalities or irregularities of Bids/Proposals.

A bid/proposal may be declared nonresponsive if any of the required bid /proposal documents are missing, incomplete, inaccurate or altered as determined by the County. Determinations of final responsiveness shall be solely determined by the County's Chief Procurement Officer.

A bid/proposal may be deemed non-responsive if any of the bid/proposal documentation, or any other information required by the bid/proposal documents, is missing, incomplete, inaccurate, misrepresented or altered as determined by the County.

BUSINESS LICENSE

Bidders shall submit a copy of its current, valid business license with its Bid. If the Bidder is a Georgia corporation, Bidder shall submit a valid county or city business license. If Bidder is a joint venture, Bidder shall submit valid business licenses for each member of the joint venture. If the Bidder is not a Georgia corporation, Bidder shall submit a certificate of authority to transact business in the state of Georgia and a copy of its current, valid business license issued by its home jurisdiction. If Bidder holds a professional license, then Bidder shall submit a copy of the valid professional license. Failure to provide the business license, certificate of authority, or professional license required by this section, may result in the proposed Bid being deemed non-responsive.

(If Applicable) UTILITY SYSTEMS CONTRACTOR'S LICENSE

As required by O.C.G.A. § 43-14-8, *et seq.*, a Bidder responding to this Invitation to Bid must provide a copy of its or its subcontractor's Georgia Utility Systems Contractor's License, Utility Manager's Certificate, and Utility Foreman's Certificate in a separate sealed envelope. All licenses and certificates must be issued in the name of the person or entity that will perform the

utility work. If a subcontractor's Georgia Utility Systems Contractor's License is submitted with the Bid, the subcontractor must be listed as such on appropriate Bidder's Lump Sum Price Form Bidder's Unit Price Form. All licenses and certificates must be current, valid, and issued in compliance with applicable law. Failure to provide this license and necessary certificates in this format may result in the proposed Bid being deemed non-responsive.

(If Applicable) **GENERAL CONTRACTOR'S LICENSE NUMBER**

As required by O.C.G.A. § 43-41-6, *et seq.*, a Bidder responding to this Invitation to Bid must provide a copy of its Georgia General Contractor's License. The Georgia General Contractor's License must be issued in the name of the Bidder or in the name of its qualifying agent. If a proposed Bidder is relying upon a qualifying agent's Georgia General Contractor's License, then the name of the proposed Bidder must be set forth on the license as an affiliated business organization/dependent licensee. All licenses must be current, valid, and issued in compliance with applicable law. Failure to provide this license with the Bid may result in the proposed Bid being deemed non-responsive.

QUESTIONS, ADDENDA AND INTERPRETATION

All questions concerning the Project and requests for interpretation of the Contract may be asked and answered at the pre-bid conference; however, oral answers are not authoritative. Questions must be submitted via email to Teresa Slayton, CPPB, CPP, CPPM, CPPC, CICC, CISM, GCPA, GCPM, Senior Purchasing Agent the Department of Purchasing and Contracting, the Maloof Center, 2nd Floor, 1300 Commerce Drive, Decatur, Georgia 30030, in writing no later **1:00 P.M. on Tuesday, December 27, 2016**. No response to questions and/or requests for interpretation shall be made to inquiries received later than **1:00 P.M. on Tuesday, December 27, 2016**. Other than questions asked and answered at the pre-bid conference, no answer to a question or interpretation of the meaning of the Contract will be made orally to any Bidder. For questions and requests for interpretation after the pre-bid conference, each response shall be given in written addendum, separately numbered and dated, and published on the County website in sufficient time for interested parties to review. The County shall be the sole determiner of sufficiency of time.

ACKNOWLEDGMENT OF ADDENDA

Addenda may be issued in response to changes in the Invitation to Bid. Addenda must be acknowledged by signing and returning the Addendum Acknowledgement with the Bid. Acknowledgments must be received by the County before the Bid opening time and date. Failure to properly acknowledge any addendum may result in the proposed Bid being deemed non-responsive. All addenda issued for this Project may be found on DeKalb County's website, <http://www.dekalbcountyga.gov/purchasing/index.htm>.

AUTHORITY TO SIGN

If a Bid is submitted by an individual, his/her name and mailing address must be shown. If submitted by a corporation, partnership, or joint venture, the name and physical mailing address of each member of the corporation, partnership, or joint venture must be shown. If submitted by a corporation, the Certificate of Corporate Bidder in the form attached to the Bid Document Package must be executed and submitted with the Bid. If submitted by a joint venture, the Certificate of Authority – Joint Venture in the form attached to the Bid Document Package must be executed and submitted with the Bid. A post office box is not acceptable as a physical mailing address. The legal and proper name of the proprietorship, corporation, or partnership submitting the Bid shall be printed or typed in the space provided on the Certificate of Corporate Bidder.

BID GUARANTEE TO ACCOMPANY BID

Each Bid must be accompanied by a Bid Guarantee in an amount of not less than ten percent (10%) of the amount of the Bid. The Bid Guarantee may be in the form of an official bank check payable to DeKalb County, or a Bid Bond in the form provided in the Bid Document Package. The Bid Bond shall be issued by a surety company licensed to write bonds in the State of Georgia, listed in the most current U.S. Treasury Circular No. 570, and have a current A.M. Best rating of "A" (Excellent) with a Financial Size Category of XII or better.

VALID INSURANCE, BONDS, LICENSES, PERMITS, AND CERTIFICATES

Bidder shall ensure that any bond, bid bond, payment bond, performance bond, insurance, license, permit or certificate submitted in response to this Invitation to Bid or as part of the Contract for this Project shall be current and valid when submitted, and shall remain valid, current and maintained in good standing for the Contract Term.

OCIP INSURANCE COVERAGE

In connection with the Work, and for the Contractor and those subcontractors deemed eligible by the County for participation, the County will implement an County Controlled Insurance Program (“OCIP”), providing certain insurance coverages as detailed herein. The insurance coverages provided by the OCIP apply only to the Work performed on the Project site. The Contractor and its Subcontractors shall provide their own insurance for all off-site activities. The Builder’s Risk/All Risk Property Insurance component of the OCIP will expressly exclude coverage on Contractor’s and Subcontractors’ machinery, tools, and equipment not destined to become a part of the Project Work.

OCIP MANUAL OF INSURANCE PROCEDURES

The OCIP coverage provided by the County shall be further detailed in, and the Contractor requirements with respect to the OCIP shall be described in, the General Liability Wrap-Up Manual (“the Manual”) is incorporated into the Contract Document, Section IX., OCIP Insurance Coverage, and as (Attachment K). This Manual includes information on the following OCIP coverages: Commercial General Liability, Excess Liability, and Builder’s Risk/All Risk Property Insurance.

EXCLUSION OF CONTRACTOR INSURANCE COSTS

Because the County is providing specific limits of General Liability, Excess Liability and Property Coverage (for eligible workers), following enrollment in the OCIP the Contractor shall exclude all General Liability, Excess Liability, and Property Coverage (Builder’s Risk) costs from the Contract Price and its bid for itself and for all included Subcontractors. The Contractor warrants, for itself and all included Subcontractors, that all such on-site insurance costs for the coverages listed above shall be excluded in their entirety from the Contract Price, and no such coverage is duplicated by the Contractor or any Subcontractor of any tier. The Contractor and its

Subcontractors shall make available to the County all documentation deemed necessary by the County in order to verify this cost exclusion. If requested by the County, the Contractor shall provide complete copies of its and its Subcontractors' current insurance policies in order to assist in the verification of the accuracy of the exclusion of insurance costs and to verify the accuracy of the information provided by the Contractor and its Subcontractors in the County Controlled Insurance Program (OCIP) General Liability Wrap Up Manual.

BUILDERS' RISK INSURANCE COVERAGE

DeKalb County shall procure and maintain Builders Risk Insurance on the entire work which provides "All-risk" form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism, malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage (other than caused by flood), and such other perils or causes of loss as may be specifically required by Supplementary Conditions) until Final Completion and Acceptance of the Project. Such policy of insurance shall contain at least the following sub-limits of insurance and deductibles:

Sub-limits:	
Property in Transit	\$1,000,000
Property in Offsite Storage	\$1,000,000
Plans & Blueprints	\$25,000
Debris Removal	25% of Insured Physical Loss
Delay in Completion / Soft Cost	TBD
Ordinance of Law (Increased Cost of Construction)	\$1,000,000
Flood and Earthquake	TBD – Full Contract Value
Deductibles:	
Flood and Earthquake	\$25,000
Water Damage other than Flood	\$100,000
All other Perils	\$10,000

RIGHTS RESERVED

The County reserves the right to reject any or all Bids, to waive formalities, and to readvertise. The County reserves the right to decide which Bid will be deemed lowest and best. For consideration as a responsible Bidder, the proposed Bidder shall, among other qualifications, demonstrate in its Bid that it has been the general contractor engaged in construction and successful completion of facilities of similar character and magnitude for at least five (5) years, and shall demonstrate the financial ability to perform the required Work. Bidder may be required to submit evidence setting forth qualifications which entitle him to consideration as a responsible Bidder. A list of work of similar character successfully completed within the last three (3) years may be required as set forth in the Invitation to Bid giving the location and size of each project. Bidder shall complete the Reference and Release Form attached to the Bidder Document Package. In addition, the Bidder shall submit upon request by the County, a list of equipment available for use on this Work with its Bid. Any additions, conditions, limitations, or provisions attached to the Bid shall render it informal, and may be cause for rejection as non-responsive. No Bid may be revoked or withdrawn until sixty (60) days after the time set for opening the Bids.

AWARD OF CONTRACT

The Contract, if awarded, will be awarded to that responsible Bidder whose responsive Bid will be most advantageous to the County, price and other factors considered. The County is entitled to make the determination in its sole discretion. The Contract between the County and the Contractor shall be executed in the form attached to the Bid Document Package on pages 1 thru 14 of the Contract Agreement, and shall form a binding contract between the contracting parties. A Performance Bond and a Payment Bond, each equal to 100% of the Contract Price, must be provided by the successful Bidder, issued in proper form by a surety company licensed to write bonds in the State of Georgia, listed in the most current U.S. Treasury Circular No. 570, and which has a current A.M. Best rating of "A" (Excellent) with a Financial Size Category of XII or better. Bonds given shall meet the requirements of the law of the State of Georgia including, but not limited to, O.C.G.A. §13-10-1 and §36-91-21 *et seq.*

FAILURE TO EXECUTE CONTRACT

The County shall have sixty (60) days after the time set for openings of Bids to notify a Bidder of the County's acceptance of the Bid and its intent to award the Contract to such Bidder. If the County so notifies a Bidder and the Bidder fails to enter into the Contract in the form attached to the Bid Document Package on pages 1 thru 14 of the Contract within ten (10) days of receiving such notice, or fails within that time to provide the required Payment and Performance Bonds and proof of required insurance, the amount of the Bid Bond or other Bid Guarantee shall be paid over to the County as liquidated damages. The acceptance of the payment of the Bid Bond shall not operate to bar any claim the County might otherwise have against the Bidder, and the County shall be authorized to pursue any claim against the Bidder for failure to consummate the Contract as may be authorized by law.

TIME AND LIQUIDATED DAMAGES

Construction must begin within ten (10) days from the date the Contractor acknowledges receipt of the Notice to Proceed ("NTP"), by signing and inserting the acknowledgement date on the NTP. Contractor shall fully complete the Work within **One Hundred Eighty (180) days** from and including the acknowledgement date. For failure to complete the Work within this period, the Contractor shall pay the County liquidated damages in the amount of **One Thousand Five Hundred Dollars (\$1,500.00)** for each day in excess of the Contract Time unless an extension of the Contract Time has been obtained by Change Order, as defined in the Contract, prior to the expiration of the Contract Term as defined in the Contract.

LOCATIONS AND SITE

The site of the proposed Work is at the stated location(s) within DeKalb County, Georgia. By submitting a Bid, the Bidder accepts the site in its present condition and agrees, if awarded the Contract, to carry out all Work in accordance with the requirements of the Contract, the Specifications and as shown on the Drawings. The Bidder shall, before submitting a Bid, visit the site and acquaint itself with the actual conditions and the location of any or all obstructions that may exist on the site. The documents comprising the Contract contain the provisions required for the completion of the Work to be performed pursuant to this Contract. Information obtained

from an officer, agent, or employee of the County, or any other person shall not affect the risks or obligations assumed by the Contractor or relieve it from fulfilling any of the conditions of the Contract. Each Bidder, prior to submitting his Bid, is responsible for inspecting the site and for reading and being thoroughly familiar with all of the documents comprising the Contract and Bid Document Package. The failure or omission of any Bidder to so familiarize himself shall in no way relieve any Bidder from any obligation in respect to his Bid. The Contractor shall inspect all easements and rights-of-way to insure that the County has obtained all land and rights-of-way necessary for completion of the Work to be performed pursuant to the Contract. The Contractor shall comply with all stipulations contained in easements acquired by the County. If applicable to the Work, all easements and rights-of-way documents are available for inspection in the office of the Department of Watershed Management. The Contractor shall not be entitled to damages and agrees not to make any claim against the County, its officials or employees for the failure to obtain necessary interests in land for this Project. The Contractor shall accurately locate above-ground and below-ground utilities and structures which may be affected by the Work using whatever means may be appropriate.

TRAINING & BADGING PROCEDURES

In an effort to promote safety and security, all individuals working on a DeKalb County Department of Watershed Management (“DWM”) –construction projects site must wear a County issued ID badge. The ID badging program will play a key role in Watershed Management’s safety and security efforts on construction sites. The ID badge will provide proof of authorization to be on the construction site, and affirm the employee has received safety orientation before commencing work. This standard applies to all contractors and subcontractors working on DWM projects, and individuals must wear the assigned badge at all times. Personnel without a current badge will not be allowed to continue to work. All workers must obtain and display an identification badge issued by the County’s Safety Representative before reporting to work on any DWM construction project.

LOCAL SMALL BUSINESS ENTERPRISE ORDINANCE

The Chief Executive Officer and the Board of Commissioners of DeKalb County recognize that it is important to encourage small and local businesses to participate in the business of County government; participation of these types of businesses in procurement will strengthen the overall economic fabric of DeKalb County, contribute to the County’s economy and tax base, and provide employment to local residents; therefore, the Chief Executive Officer and the Board of Commissioners have made the success of local small businesses a permanent goal of DeKalb County by enacting the Local Small Business Enterprise Ordinance, Code of DeKalb County, as revised 1988, §2-200 *et seq.* (“LSBE Ordinance”) and implementing the LSBE program. For further details and an explanation of the LSBE Exhibits, please review the attached LSBE Program Information sheet which includes the required LSBE Exhibits. Bidders may also contact the County’s LSBE Program of the Department of Purchasing and Contracting at contract@dekalbcountyga.gov or 404-371-6395. The LSBE Program Information Sheet is a summary of the LSBE program and is provided as a service to potential County vendors. For the full and complete requirements of this program, potential vendors are directed to consult the LSBE ordinance itself. Completion of LSBE Exhibits A and B are MANDATORY. Failure to fully complete and submit LSBE Exhibits A and B with a Bid shall result in the Bid being rejected as non-responsive.

FEDERAL WORK AUTHORIZATION PROGRAM PARTICIPATION

All qualifying Contractors and Subcontractors performing work with DeKalb County, Georgia must register and participate in the federal work authorization program to verify the work eligibility information of new employees. In order for a Bid to be considered, it is mandatory that the Bidder's Affidavit of Compliance with O.C.G.A. §13-10-91 included as page 53 be completed and submitted with the Bid.

GEORGIA OPEN RECORDS ACT

Contractors will be expected to comply with the applicable provisions of the Georgia Open Records Act, O.C.G.A. §50-18-70 *et seq.*

FIRST SOURCE JOBS ORDINANCE

The DeKalb County First Source Jobs Ordinance, Code of DeKalb County, as revised, 1988, §2-231 *et seq.* ("the First Source Jobs Ordinance") requires Contractors and Beneficiaries of Eligible Projects as those terms are defined in First Source Jobs Ordinance now and as they may be amended hereafter, to make a good faith effort to hire DeKalb County residents for at least fifty percent (50%) of all jobs created by the Eligible Project using the First Source Register (candidate database). The Contractor and the Work to be performed under this Contract are subject to the provisions of the First Source Jobs Ordinance. A First Source Jobs Ordinance Acknowledgement Form is included in the Bid Document Package as page 35. The signer of ¹this form acknowledges and agrees to comply with the provisions of the First Source Jobs Ordinance. For more information on the requirements of the First Source Jobs Ordinance, Bidders may contact DeKalb Workforce Development at 404-687-4099.

PREFERRED EMPLOYEES

Contractors, subcontractors, and independent contractors bidding on this contract will be **encouraged** by DeKalb County to have 25% or more of their labor forces for this project consist

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of Preferred Employees selected from the First Source Registry. The First Source Registry has Preferred Employees trained by U.S. Department of Labor registered apprenticeship programs and other partners.

For information on Preferred Employees, please contact the DeKalb County Workforce Department by telephone at 404-687-3428 or in person at 320 Church Street, Decatur, GA 30030.

ACKNOWLEDGEMENT OF BIDDER

I _____ have had the opportunity to review and have reviewed this Bid Document Package dated _____, 20__ in its entirety and I agree that it is accurate and complete. I _____ am duly and properly in office and I am fully authorized and empowered to execute this Acknowledgement for and on behalf of the Contractor.

By: _____(SEAL)
Signature

Name (Typed or Printed)

Title

Name of Business

Federal Tax I.D. Number

ATTEST:

Signature

Name (Typed or Printed)

Title

SCOPE OF WORK

The Fairoaks Road Water Main Replacement project consist of the removal of approximately 4,400 linear feet of newly installed (out of service) 8-inch ductile iron pipe and replacing it with a new 8-inch ductile iron pipe. Construction includes removing and replacing this newly installed out of service system including all fire hydrants, valves, service lines and appurtenances, cleaning these items and then delivering them to the County. Once the new 8-inch water main is active, the existing in service (6-inch) waterline will be decommissioned and abandoned. Upon completion of all of the water main replacement and abandonment work, the road will be milled and repaved with asphalt from Lavista Road to Oak Grove Road approximately 5,400 linear feet. This work will include restriping and signage.

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Special Provisions and General Notes

The Contractor shall comply with the following Special Conditions:

Traffic Control:

1. The Contractor shall not install lane closures or move equipment or materials within the project limits that interferes with traffic flow between the hours of 6:00 a.m. to 9:00 a.m. and 4:00p.m. to 7:00p.m., Monday through Friday. Equipment or materials moved on or across the traveled way at other times shall be done in a manner as not to unduly interfere with traffic.
2. Failure to comply with the working hours as described in this special provision shall result in the assessment of damages in the amount of \$1,000.00 {one thousand dollars) per occurrence.

Use of Temporary Facilities

3. Contractor may be required by the County to provide and maintain a suitable office on the site for his own use and for the use of representatives of the County.

Maintenance and Removal

4. Utilities and Furnishings: Contractor shall furnish sufficient heat, artificial light, ventilation and janitor's service, and shall also provide a table or desk, plan rack and chairs, all for the use of those visiting the job, in addition to such furnishings as he provides for his own use.
5. Location and Removal: Temporary offices and other structures shall be located where approved by the County, and shall be removed from the premises upon completion of the Contract or earlier if so directed by the County. They shall remain the property of the Contractor.

Field Offices

6. Contractor and his Subcontractors shall provide such additional offices, storage shanties, tool sheds and other temporary buildings as required for their own use and those employed on the Work.

Toilet and Washing Facilities

7. Toilet Building: Contractor may be required by the County, at the beginning of work, to provide on premises suitable and adequate temporary toilets and enclosure for use of workers on the job; maintain same in sanitary condition; remove same at completion of building operations and/or when directed.
8. Sanitary Regulations: Do not allow any sanitary nuisances to be committed in or about work; enforce sanitary regulations of local and State Health Authorities.

Utilities During Construction

9. Utilities: Contractor shall furnish all utilities and pay for all utility bills used during construction. Utilities shall include electric power or fuel of any sort used for heating, etc., and water.
10. Connections to Utilities: Contractor shall provide all temporary connections to utilities when not provided by the utility company or others.

Telephone

11. Contractor shall, if required by the County, install and maintain at his own expense, a job telephone for duration of the Contract.

Temporary Heat

12. The Contractor shall provide at his own expense temporary heat as necessary to protect all work and materials against injury from dampness and cold. Fuel, equipment and method of heating shall not present a fire hazard and shall be satisfactory to the County. See requirements in detail Specifications for temperatures to be maintained for application of work under the various trades.

General

13. All Sub-Contractors are required to have a Georgia Utility Contractor's License. A copy of said license should be attached with the Bid Package and available for inspection during the term of the contract.
14. A "Main Point of Contact" shall be on site at all times. This person to be the liaison between the County and the sub-contractor or the workers.
15. The Contractor / subcontractor shall wear their personal protective equipment (PPE) at all times when on the job site.
16. It shall be the Contractor's responsibility to conform to all of the requirements of the Specifications as they relate to the cooperation with the Utility Owners and the utility locations that exist on the site.
17. It shall be the Contractor's responsibility to coordinate his work with any work to be performed by the owners or others in any right-of-way clearance and arrange a schedule of the operations that will allow for the completion of the project without any undue delay.
18. **All materials are to be furnished by Contractor.**

Bidder's Unit Price Form

BIDDER'S UNIT PRICE

TO: The Governing Authority of DeKalb County, Georgia

The undersigned, as Bidder, declares that he has carefully examined ITB No. **16-100790, Fair Oaks Road Water Main Replacement**, an annexed proposed form of Contract, the Specifications therein contained, and the Drawings therein referred to, and that he proposes and agrees that if his Bid is accepted, to provide the necessary machinery, tools, apparatus, and other means of construction, and will furnish all materials and labor specified in the Contract, or called for by the Drawings, or necessary to complete the Work in the manner therein specified within the time specified, as therein set forth for the unit prices on the form following this page. If the Bidder's Unit Price exceeds one page in length it should be completed in an excel format, typewritten, printed out and attached hereto. Handwritten Unit Prices exceeding one page in length may not be accepted and may result in the proposed Bid being deemed non-responsive.

BID SCHEDULE

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT
ITB No. 16-100790

Rev. 12/1/2016

ITEM NO.	ITEM DESCRIPTION	UNITS	APPROX QUANTITY	UNIT PRICE	AMOUNT
150-1000	TRAFFIC CONTROL - FAIROAKS ROAD	LS	1		
163-0232	TEMPORARY GRASSING	AC	0.6		
163-0240	MULCH	TN	14		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	16		
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	LF	180		
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	180		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	16		
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	350		
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	350		
310-1101	GR AGGR BASE CRS, INCL MATL	TN	490		
402-1802	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	TN	250		
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	110		
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	150		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	1,660		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	50		
413-1000	BITUM TACK COAT	GL	700		
432-5010	MILL ASPH CONC PVMT, VARIABLE DEPTH	SY	15,040		
441-0104	CONC SIDEWALK, 4 IN	SY	200		
441-4020	CONC VALLEY GUTTER, 6 IN	SY	20		
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	200		
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	200		
441-7011	CURB CUT WHEELCHAIR RAMP	EA	4		
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	120		
611-5280	RESET GRANITE CURB	LF	150		
611-8000	ADJUST CATCH BASIN TO GRADE	EA	2		
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	260		
600-0001	FLOWABLE FILL for Abandonment of Waterlines	LF	800		
610-2383	REMOVE WATER MAIN, 12 INCHES OR LESS, Including Fittings, Valves, Thrust Blocks, Restraints, Service Lines and Fittings	LF	4,900		
670-1060	WATER MAIN, 6 IN, Including Fittings, Thrust Blocks, Restraints, Bedding, Backfill, Concrete Cap, Record Plans and GPS Coordinates	LF	410		
670-1080	WATER MAIN, 8 IN, Including Fittings, Thrust Blocks, Restraints, Bedding, Backfill, Concrete Cap, Record Plans and GPS Coordinates	LF	4,770		
670-2060	GATE VALVE, 6 IN	EA	20		
670-2080	GATE VALVE, 8 IN	EA	15		
670-7215	INSERTION VALVE, 6 IN, Including saw cutting, pavement removal, excavation, bedding, backfill and concrete cap	EA	3		
670-3086	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 6 IN	EA	1		
670-3087	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 8 IN	EA	1		
670-4000	FIRE HYDRANT	EA	13		
670-5010	WATER SERVICE LINE, 3/4 & 1 IN, Includes free bore of all services under pavement	LF	1,700		
670-9729	REPLACE WATER METER, INCL. BOX, 3/4 & 1 IN	EA	56		
670-9920	REMOVE EXIST FIRE HYDRANT	EA	21		
632-0003	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	EA	2		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	6		
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	56		
636-2070	GALV STEEL POSTS, TP 7	LF	140		
652-5451	SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	11,700		
652-6501	SKIP TRAFFIC STRIPE, 5 IN, WHITE	GLF	310		

653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	500		
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	11,300		
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	290		
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	2,800		
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	60		
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	60		
654-1001	RAISED PVMT MARKERS TP 1	EA	360		
647-6090	LOOP DETECTOR -	EA	2		
700-7000	AGRICULTURAL LIME	TN	1.2		
700-8000	FERTILIZER MIXED GRADE	TN	0.4		
700-8100	FERTILIZER NITROGEN CONTENT	LB	28		
700-9300	SOD	SY	3,600		

TOTAL BID:

_____ (State in words on the line above)

\$ _____ (In figures)

These quantities are approximate and may be increased or decreased as to any and all units as necessary to complete the construction of said Project without entitling the Contractor to any claim for extra compensation because of any injury, damage or delay he may sustain on account of such increase or decrease. The Contractor shall be entitled to compensation on the foregoing unit prices only on the quantities of materials actually furnished and work actually done as determined and approved in writing by the County through an inspection of the work completed. In no event shall the County be liable for payment in excess of the total Bid amount of \$ _____ (*Insert same "TOTAL BID" figure as listed on the foregoing page*) without proper prior written authorization via Change Order from the County. The Total Bid includes and encompasses the cost of all labor, materials, equipment, tools, supervision, scheduling, safety program, coordination, engineering, testing, surveys, layout, cleanup, and other things and services required to complete the entire Project in strict conformity with the Drawings, Specifications, the Contract, and all addenda and authorized written clarifications issued prior to the Bid date. Without limitation, the Total Bid also includes all applicable sales and use taxes, fees, temporary lighting, security for the site, heating and cooling, temporary utilities, freight costs, handling costs, permit costs, field and main office costs, bond premiums, insurance premiums, direct and indirect administrative costs, overhead, and profit.

Bidder has examined the site of the proposed Work and all documents comprising the Contract, and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract.

No Bid may be revoked or withdrawn until sixty (60) days after the time set for opening the Bids.

Attached hereto is Bid Bond made by _____, a surety company listed in the most recent US Treasury Circular No. 570 and licensed to write surety bonds in the State of Georgia, payable to DeKalb County, Georgia (or an official bank check), in the amount of ten percent (10%) of the above Bid, to-wit: \$ _____.

If this Bid shall be accepted by DeKalb County and the undersigned shall fail to execute a satisfactory contract in the form of said proposed Contract, give satisfactory Performance and Payment Bonds, or furnish satisfactory proof of the insurance required, as stated in the Instructions to Bidders within ten (10) days from the Notice of Award of the Contract, then the County may at its option, determine that the undersigned abandoned the Contract and thereupon this Bid shall be null and void, and the sum stipulated in the attached Bid Bond (or an official bank check) shall be forfeited to the County as liquidated damages.

Bidder declares his intent to subcontract the portion of the Work as below stated. Bidder understands and agrees that the use of any Subcontractor not listed below shall be strictly prohibited without prior written approval from the County. (List names of all subcontractors and the work to be provided by the subcontractor on the lines provided below.)

Bidder further declares that the full names and residence addresses of all persons and parties interested in the foregoing Bid as principals are as follows:

Bidder declares further that it is / is not a DeKalb County Firm.

Signed, sealed, and dated this _____ day of _____, 20____.

By: _____ (SEAL)
Signature

Print Name of Signer

Title of Signer

Name of Business Entity Submitting Bid

Bidder's Street Address

Bidder's City, State and Zip Code

Bidder's Phone Number

Bidder's Fax Number

Bidder's E-Mail Address

Bidder's Qualification Form(s)

Fairoaks Road Water Main Replacement Project

ITB No. 16-100790

BIDDER'S QUALIFICATION FORM

Bidders must meet the following qualifications:

I. INSTRUCTIONS:

- A. Bidder shall attach required information and complete the form provided below. All information requested by the County shall be provided. Failure to do so may result in the bid being deemed nonresponsive.
- B. All questions must be answered in full. Failure to do so may result in the bid being deemed non-responsive.

II. COMPANY EXPERIENCE – SIMILAR PROJECTS:

A. Experience:

- 1. The Bidder shall provide evidence of having at least seven (7) years operating as the same company.
- 2. Within the last ten (10) years, the Bidder shall have successfully managed and completed at least two (2) water distribution system projects/contracts of similar scope. Each contract must have consisted of the installation, disinfection, and testing of water mains ranging from 2 inches to 18 inches for governmental clients in the United States with a minimum cost of \$1 million. Completed project(s) must have consisted of the installation of a minimum of 5000 feet of pipe 18-inches in diameter and smaller.
- 3. Additional qualifications must be submitted as required of Sections _____ of the Technical Specifications.
- 4. A brief description of each project and a reference shall be included for each project listed. As a minimum, the reference shall include an individual's name and position in the company with appropriate contact information.

#1 Project Name: _____

Location: _____

Project Owner: _____

Owner's Address: _____

Owner's Contact Person: _____
Name and Position

Owner's Contact Person Phone Number: _____

Owner's Email Address: _____

Company's Primary Performance
(Performed as a Prime Contractor or
Subcontractor): _____

If performed as a
Subcontractor, dollar value of
subcontract agreement: _____

Duration of Project
(start and end date): _____

Project scope/description and
Total project dollar value: _____

#2 Project Name: _____

Location: _____

Project Owner: _____

Owner's Address: _____

Owner's Contact Person: _____
Name and Position

Owner's Contact Person Phone Number: _____

Owner's Email Address: _____

Company's Primary Performance
(Performed as a Prime Contractor or
Subcontractor): _____

If performed as a
Subcontractor, dollar value of
subcontract agreement: _____

Duration of Project
(start and end date): _____

Project scope/description and
Total project dollar value: _____

#3 Project Name: _____

Location: _____

Project Owner: _____

Owner's Address: _____

Owner's Contact Person: _____
Name and Position

Owner's Contact Person Phone Number: _____

Owner's Email Address: _____

Company's Primary Performance
(Performed as a Prime Contractor or
Subcontractor): _____

If performed as a
Subcontractor, dollar value of
subcontract agreement: _____

Duration of Project
(start and end date): _____

Project scope/description and
Total project dollar value: _____

First Source Jobs Ordinance Acknowledgement Form

FIRST SOURCE JOBS ORDINANCE ACKNOWLEDGEMENT

Contract No. _____

The DeKalb County First Source Ordinance requires contractors or beneficiaries of eligible projects entering into any type of agreement with the County, including purchase orders, regardless of what they may be called, for the procurement or disposal of supplies, services, construction projects, professional or consultant services, which is funded in whole or part with County funds or County administered funds in which the contractor is to receive \$50,000 or more in County expenditures or committed expenditures and recipient of urban redevelopment action grants or community development block funds administered in the amount of \$50,000 or more to make a good faith effort to hire DeKalb County residents for at least 50% of jobs created using the First Source Registry (candidate database) within one hundred twenty (120) days of contract execution. The work to be performed under this contract is subject to the provisions of the DeKalb County First Source Jobs Ordinance. All contractors will be asked to submit an ***Employment Roster*** and/or copies of active payroll registers on a monthly basis to verify compliance. The undersigned acknowledges and agrees to comply with the provisions of the DeKalb County First Source Jobs Ordinance.

CONTRACTOR OR BENEFICIARY INFORMATION:

Contractor or Beneficiary Name (Signature)

Contractor or Beneficiary Name (Printed)

Title

Telephone

Email

Name of Business

Please answer the following questions:

1. How many job openings do you anticipate filling related to this contract? _____
2. How many incumbents/existing employees will retain jobs due to this contract?

DeKalb Residents: _____ Non-DeKalb Residents: _____

Please return this form to DeKalb Workforce Development, fax (404) 687-4099 or email to FirstSourceJobs@dekalbcountyga.gov.

DeKalb Workforce Development □ 774 Jordan Lane, Building #4, Decatur, GA 30033 □ (404) 687-3400 □ www.dekalbworkforce.org
An Equal Opportunity Employer/Program and auxiliary aids and services are available upon request to individuals with disabilities.

**Local Small Business Enterprise (“LSBE”) Program
Information Sheet and LSBE Exhibits A, B, and C**

**LSBE INFORMATION
WITH EXHIBITS A – C**

**SCHEDULE OF LOCAL SMALL BUSINESS ENTERPRISE PARTICIPATION
MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE
OPPORTUNITY TRACKING FORM**

The Chief Executive Officer and the Board of Commissioners of DeKalb County believe that it is important to encourage the participation of small and local businesses in the continuing business of County government; and that the participation of these types of businesses in procurement will strengthen the overall economic fabric of DeKalb County, contribute to the County’s economy and tax base, and provide employment to local residents. Therefore, the Chief Executive Officer and the Board of Commissioners have made the success of local small businesses a permanent goal of DeKalb County by implementing the Local Small Business Enterprise Ordinance.

PROVISIONS OF LOCAL SMALL BUSINESS ENTERPRISE (LSBE) ORDINANCE

Amount of LSBE Participation Required
20% of Total Award

	Request For Proposals (RFP)	Invitations To Bid (ITB)
LSBE Within DeKalb (LSBE-DeKalb)	Ten (10) Percentage Points	Ten (10) Percent Preference
LSBE Outside DeKalb (LSBE-MSA)	Five (5) Percentage Points	Five (5) Percent Preference

Certified Local Small Business Enterprises (LSBEs) located within DeKalb County and prime contractors utilizing LSBEs that are locally-based inside DeKalb County shall receive ten (10) percentage points in the initial evaluation of their response to any Request for Proposal and a ten (10) percent preference on all responses to any Invitation to Bid. Certified LSBEs located outside of DeKalb County but within the ten (10) County Metropolitan Statistical Area (MSA) consisting of Cherokee, Clayton, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry and Rockdale Counties shall receive five (5) percentage points in the initial evaluation of their response to any Request for Proposal and a five (5) percent preference on all responses to any Invitation to Bid.

For all qualified sealed solicitations, the Director of Purchasing and Contracting, DeKalb County Government, shall determine if the bidder/proposer has included written documentation showing that at least twenty percent (20%) of the total contract award will be performed by a certified LSBE. This written documentation shall be in the form of a notarized Schedule of LSBE Participation (Attached hereto as “Exhibit A”.) For all contracts, a signed letter of intent from all certified LSBEs describing the work, material, equipment and/or services to be performed or provided by the LSBE(s) and the agreed upon dollar value shall be due with the bid or proposal documents and included with “Exhibit A”. The certified vendor list compiled by the Contract

Compliance Division, Purchasing and Purchasing and Contracting Department, DeKalb County Government establishes the group of Certified LSBE's from which the bidder/proposer must solicit subcontractors for LSBE participation.

Contractors failing to meet the LSBE benchmark must document and demonstrate Good Faith Efforts in accordance with the attached "Checklist for Good Faith Efforts" portion of "Exhibit A." The notarized Schedule of LSBE Participation shall be due and submitted with each bid or proposal. Failure to achieve the LSBE benchmark or demonstrate good faith efforts shall result in a bid being rejected.

Upon award, Prime Contractors are required to submit a report detailing LSBE/Sub-Contractor usage with each request for payment and not less than on a monthly basis. Prime Contractors are also required to certify that all sub-contractors have been paid within seven (7) days of the Prime's receipt of payment from the County. Failure to provide requested reports/documentation may constitute a material breach of contract, entitling the County to terminate the Contract for default or pursue other remedies. LSBE sub-contractors must submit a detailed report of their sub-contracting activity for each County contract they participate in. Sample Report Forms are attached as "Exhibit C".

For eligible bids over \$5,000,000.00, The Director of Purchasing and Contracting or designee will determine if the Mentor-Protégé provision of the Ordinance will apply.

It is the objective of the Chief Executive Officer and Board of Commissioners of DeKalb County to provide maximum practicable opportunity for all businesses to participate in the performance of government contracts. To achieve this purpose, the County would like to track and record information about participating vendors. The attached "Exhibit A," also records who performs work and renders services to the County. Contractors are requested to indicate whether they are a LSBE-DeKalb or MSA and list the level of participation by subcontractors designated as such on each solicitation.

EXHIBIT A

**SCHEDULE OF LOCAL SMALL BUSINESS ENTERPRISE PARTICIPATION
OPPORTUNITY TRACKING FORM**

As specified, Bidders and Proposers are to present the details of LSBE, MBE AND WBE participation below:

PRIME BIDDER/PROPOSER _____

SOLICITATION NUMBER-ITB 16-100790

TITLE OF UNIT OF WORK – **Fairoaks Road Water Main Replacement Project**

1. My firm, as the prime bidder/proposer on this unit of work, is a certified (check all that apply):
____LSBE-DeKalb ____LSBE-MSA
2. If you are a Certified LSBE-DeKalb or MSA please indicate below the portion of work (including the percentage of the amount bid/proposal) that your firm will carry out directly: _____.
3. If the prime bidder/proposer is a joint venture, please describe below the nature of the joint venture and level of work and financial participation to be provided by the LSBE joint venture firm.
4. List the LSBE-DeKalb or MSA subcontractors and/or firms (including suppliers) to be utilized in of this contract, if awarded. No changes can be made in the subcontractors listed below without the prior written approval of the County. Please attach a signed letter of intent from all certified LSBEs describing the work, materials, equipment or services to be performed and/or provided and the agreed upon dollar value. A Letter of Intent form is attached hereto as “Exhibit B”.

Name of Company	
Address	
Telephone	
Fax	
Contact Person	
Indicate all that apply and attach proof of certification: LSBE-DeKalb/LSBE-MSA	
Description of services to be performed	
Percentage of work or estimated contract award amount to be performed	

EXHIBIT A, CONT'D

Name of Company	
Address	
Telephone	
Fax	
Contact Person	
Indicate all that apply and attach proof of certification: LSBE-DeKalb/LSBE-MSA	
Description of services to be performed	
Percentage of work or estimated contract award amount to be performed	

Name of Company	
Address	
Telephone	
Fax	
Contact Person	
Indicate all that apply and attach proof of certification: LSBE-DeKalb/LSBE-MSA	
Description of services to be performed	
Percentage of work or estimated contract award amount to be performed	

Name of Company	
Address	
Telephone	
Fax	
Contact Person	
Indicate all that apply and attach proof of certification: LSBE-DeKalb/LSBE-MSA	
Description of services to be performed	
Percentage of work or estimated contract award amount to be performed	

Please attach additional pages, if necessary.

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EXHIBIT A, CONT'D

DEKALB COUNTY
CHECKLIST FOR GOOD FAITH EFFORTS

A bidder/proposer that does not meet the County’s LSBE participation benchmark is required to submit documentation to support all “Yes” responses as proof of “good faith efforts.” Please indicate whether or not any of these actions were taken:

	Yes	No	Description of Actions
1.			Advertisement for solicitation of LSBEs in general circulation media and trade association publications at least seven (7) calendar days prior to bid or proposal opening any and all sub-contractor opportunities. Proof of advertisement must be submitted with the bid or proposal.
2.			Provided written notice to LSBEs that their interest in sub-contracting opportunities or furnishing supplies is solicited. Provide a contact log showing the name, address, email and contact number (phone or fax) used to contact the proposed certified subcontractors, nature of work requested for quote, date of contact, the name and title of the person making the effort and the amount of the quoted price if one was obtained.
3.			Provided interested LSBEs with timely, adequate information about the plans, specification, and other such requirements of the contract to facilitate their quotation and conducted follow up to initial solicitations.
4.			Efforts made to divide the work for LSBE subcontracting areas likely to be successful and to identify portions of work available to LSBEs consistent with their availability. Include a list of divisions of work not subcontracted and the corresponding reasons for not including them. The ability or desire of a bidder/proposer to perform the contract work with its own organization does not relieve it of the responsibility to make good faith efforts on all scopes of work subject to subcontracting.
5.			Efforts were made to assist potential LSBE subcontractors meet bonding, insurance, or other governmental contracting requirements. Where feasible, facilitating the leasing of supplies or equipment when they are of such a specialized nature that the LSBE could not readily and economically obtain them in the marketplace.
6.			Communication with Contract Compliance seeking assistance in identifying available LSBEs. Provide Contract Compliance representative name and title.
7.			For all contracts, a signed letter of intent from all certified LSBEs describing the work, materials, equipment or services to be performed or provided by the LSBE(s) and the agreed upon dollar value shall be due with the bid or proposal documents. Provide subcontractor information as requested by forms provided by Contract Compliance.
8.			Other Actions (specify):

EXHIBIT A, CONT'D

Please explain all “no” answers above (by number):

This list is a guideline and by no means exhaustive. The County will review these efforts, along with other documents, to assess the bidder/proposer’s efforts to meet the County’s LSBE Participation benchmark. If you require assistance in identifying certified, bona fide LSBEs, please contact the Purchasing and Contracting Department LSBE Program Felton Williams, Special Projects Manager at 404-371-6312. A copy of the list of LSBEs certified by the DeKalb County Government, Purchasing and Contracting Department is available on our website at <http://www.dekalbcountyga.gov/>.

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EXHIBIT A, CONT'D

DEKALB COUNTY LOCAL SMALL BUSINESS ENTERPRISE SCHEDULE OF PARTICIPATION

Bidder/Proposer Statement of Compliance

Bidder(s)/Proposer(s) hereby state that they have read and understand the requirements and conditions as set forth in the objectives and that reasonable effort were made to support the County in providing the maximum practicable opportunity for the utilization of LSBEs consistent with the efficient and economical performance of this contract. The Bidder and any subcontractors shall file compliance reports at reasonable times and intervals with the County in the form and to the extent prescribed by the Director of DeKalb County Purchasing and Contracting Department. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of Contractors and their subcontractors.

1. Non-Discrimination Policy

- a. During the performance of this agreement, Contractor agrees to conform to the following Non-Discrimination Policy adopted by the County.
- b. Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or disability. The Contractor will take action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or disability. Such action shall include, but not be limited to, the following:
 - (1) Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places available to employees and applicants for employment, notices to be provided setting forth provisions of this non-discrimination clause.
 - (2) Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or disability.
- c. Without limiting the foregoing, Contractor shall not discriminate on the basis of disability in the admission or access to, or treatment or employment in, the programs and activities, which form the subject of the contract. The Contractor will take action to ensure that applicants for participation in such programs and activities are considered without regard to disability. Such action shall include, but not be limited to, the following:
 - (1) Contractor agrees to post in conspicuous places available to participants in its programs and activities notices to be provided setting forth the provisions of this non-discrimination clause.

- (2) Contractor shall, in all solicitations or advertisements for programs or activities, which are the subject of the contract, state that all qualified applicants will receive consideration for participation without regard to disability.

2. **Commitment**

The undersigned certifies that he/she has read, understands, and agrees to be bound by the bid specifications, including the accompanying Exhibits and other terms and conditions of the Invitation to Bid and/or Request for Proposal regarding LSBE utilization. The undersigned further certifies that he/she is legally authorized by the bidder or responder to make the statements and representations in

Exhibit A and that said statements and representations are true and correct to the best of his/her knowledge and belief. The undersigned will enter into formal agreement(s) with the LSBE(s) listed in this Exhibit A, which are deemed by the owner to be legitimate and responsible LSBEs. Said agreement(s) shall be for the work and contract with the County. The undersigned understands and agrees that if any of the statements and representations are made by the Bidder knowing them to be false, or if there is a failure of the successful Bidder (i.e., Contractor) to implement any of the stated agreements, intentions, objectives, goals and commitments set forth herein without prior approval of the County, then in any such events the contractor's act or failure to act, as the case may be, shall constitute a material breach of contract, entitling the County to terminate the Contract for default. The right to so terminate shall be in addition to, and not in lieu of, any other rights and remedies the County may have for other defaults under the Contract. Additionally, the Contractor will be subject to the loss of any future contract awards by the County for a period of one year.

Firm Name (Please Print):

Firm's Officer: _____
(Authorized Signature and Title Required) Date

Sworn to and Subscribed to before me this ____ day of _____, 201__.

Notary Public

My Commission Expires: _____

EXHIBIT B

**LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR
PROVIDING MATERIALS OR SERVICES**

Instructions:

1. Complete the form in its entirety and submit with bid documents.
2. Attach a copy of the LSBE's current valid Certification Letter.

To: _____

(Name of Prime Contractor Firm)

From: _____ **LSBE –DeKalb** **LSBE –MSA**
(Name of Subcontractor Firm) (Check all that apply)

ITB Number: ITB No. 16-100790

Project Name: Fairoaks Road Water Main Replacement Project

The undersigned subcontractor is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided).

Description of Materials or Services	Project Commence Date	% of Contract Award	Estimated Dollar Amount

Prime Contractor

Sub-contractor

Signature: _____

Signature: _____

Title: _____

Title: _____

Date: _____

Date: _____



EXHIBIT C: PRIME CONTRACTOR LSBE UTILIZATION REPORT

Please complete a separate form for each contract.

This report **must** be submitted with each request for payment, not less than monthly, along with a copy of your monthly invoice (schedule of values/payment application) and front and back copies of checks for proof of payment. Documents should be sent to the Contract Compliance Division using one of the three (3) delivery methods below. Failure to comply **may** result in delayed payments, decertification, suspension from the bid process or the denial to participate as a LSBE or subcontractor in future contracts awarded by DeKalb County.

PRIME CONTRACTOR			Contract Award Amount	% Complete to Date
Name:				
Address:				
Telephone #:	Fax#:	Email:		

REPORTING PERIOD: (From - To)	
ITB/RFP NUMBER:	
CONTRACT NUMBER:	
PROJECT NAME & LOCATION:	

AMOUNT OF REQUISITION THIS PERIOD: \$ _____

ANY CHANGE ORDER AMOUNT AFFECTING SUB-CONTRACTOR UTILIZATION: \$ _____

TOTAL AMOUNT REQUISITIONED TO DATE: \$ _____

SUB-CONTRACTOR UTILIZATION (add additional rows as necessary)

Name of Sub-Contractor	Description of Work	Amount of Sub-Contract	Amount Paid This Period	Amount Paid To Date

Executed By: _____ (Signature) _____ (Printed Name) Date: _____

Return Completed Form to:
Contract Compliance Division, ATTN: Felton B. Williams, DeKalb County Purchasing and Contracting
 1300 Commerce Drive 2nd Floor, Decatur, Georgia 30030
 404-371-6312 (phone) 404-371-7006 (fax)



EXHIBIT C: LSBE SUBCONTRACTOR UTILIZATION REPORT

Please complete a separate form for each contract.

This report **must** be submitted with each request for payment, not less than monthly, along with a copy of your monthly invoice (schedule of values/payment application) and front and back copies of checks for proof of payment. Documents should be sent to the Contract Compliance Division using one of the three (3) delivery methods below. Failure to comply **may** result in delayed payments, decertification, suspension from the bid process or the denial to participate as a LSBE or subcontractor in future contracts awarded by DeKalb County.

SUB – CONTRACTOR		Sub-Contract Award Amount	% Complete to Date
Name:			
Address:			
Telephone #:		Fax#	Email

PRIME CONTRACTOR:	
CONTRACT NUMBER:	
ITB/RFP NUMBER:	
PROJECT LOCATION:	

ANY CHANGE ORDER AMOUNT AFFECTING SUB-CONTRACTOR UTILIZATION: \$ _____

Reporting Period (From-To)	Description of Work	Current Amount Invoiced	Amount Paid This Period	Outstanding Payments/Past Due Amount
TOTALS				

Executed By: _____ Date: _____
(Signature) (Printed Name)

Notary: _____ My Commission Expires: _____

Return Completed Form to:
Contract Compliance Division, ATTN: Felton B. Williams, DeKalb County Purchasing and Contracting
 1300 Commerce Drive 2nd Floor, Decatur, Georgia 30030
 404-371-6312 (phone) 404-371-7006 (fax)

Certificate of Corporate Bidder

CERTIFICATE OF CORPORATE BIDDER

I, _____ (*insert name of the Corporate Secretary*), certify that I am Secretary of the corporation named as Bidder herein, same being organized and incorporated to do business under the laws of the State of _____; that _____ (*insert name of individual signing the Bid*) who executed this Bid on behalf of the Bidder was, then and there, _____ (*insert title of individuals signing the Bid*) and that said Bid was duly signed by said officer for and on behalf of said corporation, pursuant to the authority of its governing body and within the scope of its corporate powers.

I further certify that the names and addresses of the owners of all outstanding stock of said corporation as of this date are as follows:

This _____ day of _____, 20____.

By: _____ (Corporate Seal)

Certificate of Authority-Joint Venture Bidder

CERTIFICATE OF AUTHORITY – JOINT VENTURE
(Separate Certificate to be submitted by each joint venture partner)

I, _____, ⁽¹⁾ certify that:

1. I am the _____ ⁽²⁾ of _____, ⁽³⁾ (hereinafter “Venturer”);

2. Venturer is a partner and participant in the joint venture having submitted the Invitation to Bid or Request for Proposal No. **ITB No. 16-100790** for **Fairoaks Road Water Main Replacement** (*insert Project Name*);

3. Venturer is organized and incorporated to do business under the laws of the State of _____; and

4. Said Invitation to Bid or Request for Proposal No. _____ was duly signed by said officer for and on behalf of said Venturer and the Contractor pursuant to the authority of the governing body of each and within the scope of its corporate powers.

I further certify that the names and addresses of the owners of all the outstanding stock or ownership interest in Venturer as of this date are as follows:

This _____ day of _____, 20____.

By: _____
Signature of Person Executing Certification

INSTRUCTIONS FOR COMPLETION OF THIS CERTIFICATE:

1. Name of secretary (if Venturer is a corporation), or Manager or CEO (if Venturer is a LLP) of Venturer.
2. Title of person executing Certification.
3. Name of joint venture partner.

COPY THIS FORM AND SUBMIT SEPARATE CERTIFICATES FOR EACH JOINT VENTURE PARTNER WITH THE BID OR PROPOSAL.

Bidder's Affidavit of Compliance with O.C.G.A. § 13-10-91

BIDDER'S AFFIDAVIT OF COMPLIANCE WITH O.C.G.A. §13-10-91

By executing this affidavit, the undersigned verifies its compliance with O.C.G.A. § 13-10-91, as amended, stating affirmatively that the Bidder submitting a Bid to DEKALB COUNTY, GA, a political subdivision of the State of Georgia, has registered with and is participating in a federal work authorization program, commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91, as amended. The undersigned further verifies that it will continue to use the federal work authorization program for the Contract Term, and it will only contract with Subcontractors who have registered for the federal work authorization program. The undersigned hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 20__ in _____(city), _____(state).

By: _____
Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

Subscribed and Sworn before me on this the
____ day of _____, 20__.

NOTARY PUBLIC
My Commission Expires:

Reference and Release Forms

**ITB No. 16-100790
CONTRACTOR'S REFERENCE AND RELEASE FORM**

List at least three (3) references for the Prime bidder and each proposed subcontractor, (LSBE or non-LSBE), using a separate Reference and Release Form for each. (Please make copies as necessary and submit with the Bid Document Package.) Provide the information requested in the form below for the contact person who will verify the contractor's experience and ability to perform the type of services listed in the solicitation.

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

REFERENCE CHECK RELEASE STATEMENT

You are authorized to contact the references provided above for purposes of this ITB.

Signed _____ Title _____
(Authorized Signature)

Company Name _____ Bidder Subcontractor Date _____
(Please check the appropriate box.)

Please make copies as needed.

ITB No. 16-100790

SUBCONTRACTOR'S REFERENCE AND RELEASE FORM

List at least three (3) references for the Prime bidder and each proposed subcontractor, (LSBE or non-LSBE), using a separate Reference and Release Form for each. (Please make copies as necessary and submit with the Bid Document Package.) Provide the information requested in the form below for the contact person who will verify the contractor's experience and ability to perform the type of services listed in the solicitation.

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

Company Name	Contract Period (Including Completion Date)		
Contact Person Name and Title	Telephone Number (include area code)		
Complete Primary Address	City	State	Zip Code
Email Address	Fax Number (include area code)		
Project Name			

REFERENCE CHECK RELEASE STATEMENT

You are authorized to contact the references provided above for purposes of this ITB.

Signed _____ Title _____
 (Authorized Signature)

Company Name _____ Bidder Subcontractor Date _____
 (Please check the appropriate box.)

Please make copies as needed.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____

(hereinafter called the Principal) and _____

(hereinafter called the Surety), a corporation chartered and existing under the laws of the State of with its principal offices in the City of _____ and listed in the Federal Register and licensed to write surety bonds in the State of Georgia, are held and firmly bound unto DeKalb County, Georgia, in the full and just sum of _____ Dollars (\$ _____) good and lawful money of the United States of America, to be paid upon demand of DeKalb County, Georgia, to which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to DeKalb County, Georgia, a Bid for (*insert name of the Project*) _____.

WHEREAS, the Principal desires to file this Bond in accordance with law to accompany this Bid.

NOW, THEREFORE, the conditions of this obligation are such that if the Bid be accepted within sixty (60) days of the Bid opening, the Principal shall execute a Contract in accordance with the Bid and upon the terms, conditions, and prices set forth therein, and in the form and manner required by DeKalb County, Georgia, and within ten (10) days from the date of Notice of Award of the Contract, execute a sufficient and satisfactory Performance Bond and Payment Bond payable to DeKalb County, Georgia, each in an amount of one hundred percent (100%) of the total Contract Price, in form and with security satisfactory to DeKalb County and furnish satisfactory proof of the insurance required, then this obligation to be void; otherwise, to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid DeKalb County, Georgia, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed this _____ day of _____, 20____.

PRINCIPAL

By: _____ (SEAL)

Signature of Principal

Print Name and Title of Authorized Signer

Print Name of Principal Business

ATTEST:

Corporate Secretary

SURETY

By: _____(SEAL)
Signature of Surety (by Power of Attorney)

Print Name and Title of Authorized Signer

Print Name of Surety Business

WITNESS:

STATE OF GEORGIA
COUNTY OF DEKALB

**CONTRACTOR AFFIDAVIT AND
OATH OF SUCCESSFUL BIDDER**

Personally appeared before me, the undersigned officer, duly authorized to administer oaths, _____, (insert name), who, after being duly sworn, deposes as follows:

I, _____, (insert name), am a competent adult, and I have personal knowledge of the facts set forth in this Affidavit and Oath which I make for any lawful use or purpose.

I, _____ (insert name) swear or affirm that I have not prevented or attempted to prevent competition in bidding or submitting a proposal for this Project by any means whatsoever. I swear or affirm that I have not prevented or endeavored to prevent anyone from making a Bid for this Project by any means whatsoever, I swear I have not caused or induced any other person to withdraw a Bid for this Project. I swear or affirm that I have not violated O.C.G.A. §36-91-21(d) in any way, directly or indirectly.

I hereby declare under penalty of perjury that the foregoing is true and correct. Executed on _____, 20__ in _____ (city), _____ (state).

By: _____
Signature

Print Name of Affiant

Print Title of Affiant

Subscribed and Sworn before me on this the _____ day of _____, 20_____.

NOTARY PUBLIC

My Commission Expires:

EXHIBIT 1

STANDARD CONTRACT FOR CONSTRUCTION

DEKALB COUNTY

STANDARD FORM

NUMBER 7

**CONTRACT
FOR
CONSTRUCTION**

**BETWEEN
DEKALB COUNTY, GEORGIA
AND**

**INVITATION NO. 16-100790
Fairoaks Road Water Main Replacement Project**

**DEKALB COUNTY, GEORGIA
1300 Commerce Drive
Decatur, Georgia 30030**

(Contact Information to be Inserted Here)

STATE OF GEORGIA

COUNTY OF DEKALB

CONTRACT FOR CONSTRUCTION

THIS CONTRACT, made as of this ____day of _____, 20____¹, (hereinafter called the “execution date”) by and between, **DEKALB COUNTY**, a political subdivision of the State of Georgia (hereinafter called the “County”) and _____, a _____ organized pursuant to the laws of the State of _____(hereinafter called the “Contractor”).

I. SCOPE OF WORK

A. The term “Work” means the construction, labor, materials, equipment, tools, machinery, testing, temporary services and utilities, supervision, administration, coordination, planning, insurance, bonds, transportation, security, and all other services and things necessary to provide the County with the facilities, improvements, features, and functions in strict conformity with the General Requirements attached hereto as Attachment A, and as described in the Specifications and the Drawings included in the Bid Document Package, which is incorporated herein by reference. The Contractor agrees to complete the Work in a good, firm, substantial and workmanlike manner in strict conformity with this Contract.

- (1) The Work relates to the following Project: **Fairoaks Road Water Main Replacement Project**. The work shall include Furnishing all labor, materials, equipment, and all things necessary pursuant to the Drawings, Specifications, conditions, etc., for removal and replacement of water distribution mains (6” AC and 8” DIP), appurtenances, and related ancillary construction for water main replacement of the following roadway: Fairoaks Road from Oak Grove Road to LaVista Road.
- (2) The Work consists of the removal of approximately 4,400 linear feet of previously installed out of service 8-inch ductile iron pipe and replacing it with new 8-inch ductile iron pipe. The Work includes removing and replacing this previously installed pipe system, including all fire hydrants, valves, service lines and appurtenances. The work also includes removing dirt and debris from the previously installed pipe then delivering the clean system to the Department of Watershed Management’s Operation’s facility. Once the new 8-inch water main is

¹ The Execution Date is the date the Contract is sent from Purchasing and Contracting to the CEO for execution. Ensure that all other parties have signed the Contract.

active, the existing in service (6-inch) waterline will be decommissioned and abandoned. Upon completion of all of the water main replacement and abandonment work, the road will be milled and repaved with asphalt from Lavista Road to Oak Grove Road approximately 5,400 linear feet. This work will include restriping and signage.

(2) Work not included in this Contract (*if applicable*): **N/A**

- B. Unless otherwise stipulated, the Contractor shall furnish all of the Work in accordance with the Contract and all incidental work necessary to complete the Project in an acceptable manner, ready for use, occupancy, or operation by the County. The Contractor shall be responsible for the entire Work and every part thereof.

II. TIME, TERM AND LIQUIDATED DAMAGES

- A. **Contract Time.** The Contractor shall commence the Work under this Contract within ten (10) days from the date on the Notice to Proceed. Contractor shall fully complete the Work within **180** calendar days from and including the date on the Notice to Proceed. If the Change Order only seeks to extend the Contract Time, it may be approved and executed by the DeKalb County Chief Executive Officer or his/her designee and the Contractor in accordance with the terms of this Contract.
- B. **Contract Term.** As required by O.C.G.A. §36-60-13, this Contract shall commence immediately upon the execution date. This Contract shall (i) terminate without further obligation on the part of the County each and every December 31st, as required by O.C.G.A. § 36-60-13, as amended, unless terminated earlier in accordance with the termination provisions of this Contract; (ii) automatically renew on each January 1st, unless terminated in accordance with the termination provisions of this Contract; and (iii) terminate absolutely, with no further renewals, on **December 31, 20__**, unless extended by Change Order adopted and approved by the DeKalb County Governing Authority and the Contractor in accordance with the terms of this Contract.

OR

- B. **Contract Term.** (*May be used for public works construction contracts for waste-water treatment, storm-water, water or sewer system or any combination of such systems*) As allowed by O.C.G.A. §36-60-15.1, this Contract shall commence immediately upon the execution date. This Contract shall terminate without further obligation on the part of the County, with no further renewals, on **_____, 20__**, unless extended by Change Order adopted and approved by the DeKalb County Governing Authority and the Contractor in accordance with the terms of this Contract.
- C. **Liquidated Damages.** The Contractor acknowledges that time is of the essence with respect to the Work governed by this Contract. Contractor acknowledges and recognizes that if it fails to achieve Substantial Completion of any portion of the Work within the

Contract Time as may be extended in accordance with the terms of this Contract, the County will sustain substantial losses as a result of such failure. The Contractor further acknowledges that the County will suffer damages that are difficult if not impossible to accurately estimate. Contractor shall pay liquidated damages of One Thousand Five Hundred Dollars (\$1,500.00) for each day that Substantial Completion of the Work is delayed past the Contract Time. The Contractor agrees that the foregoing rate is a reasonable pre-estimate of the probable damages that the County will suffer if Substantial Completion is delayed, and said daily rate is intended to compensate the County for its damages and is not intended to penalize the Contractor for its delay. The County may deduct such liquidated damages from any unpaid amounts then or thereafter due the Contractor under this Contract. Any liquidated damages not deducted from any unpaid amounts due the Contractor are payable to the County at the County's demand, together with interest from the date of the demand at a rate equal to seven percent (7%) per annum.

III. PAYMENT

- A. **Contract Price.** As full payment for the faithful performance of this Contract, the County shall pay the Contractor, the Contract Price, which is an amount not to exceed _____ (\$ _____), unless changed by written Change Order in accordance with the terms of this Contract. The term "Change Order" includes the term "amendment" and shall mean a written order authorizing a change in the Work, and an adjustment in Contract Price to Contractor or the Contract Term, as adopted and approved by the Contractor and the DeKalb County Governing Authority, or the Chief Executive Officer, if exempted from Governing Authority adoption and approval in accordance with the express terms of this Contract. The Chief Executive Officer or his/her designee shall have the authority to approve and execute a Change Order lowering the Contract Price or increasing the Contract Price up to twenty percent (20%) of the original Contract Price, provided that the total amount of the increase authorized by such Change Order is less than \$100,000.00. If the original Contract or Purchase Order Price does not exceed \$100,000.00, but the Change Order will make the total Contract Price exceed \$100,000.00, then the Change Order will require approval by official action of the Governing Authority. Any other increase of the Contract Price shall be by Change Order adopted and approved by the DeKalb County Governing Authority and the Contractor in accordance with the terms of this Contract. Amounts paid to the Contractor shall comply with and not exceed Attachment A, the Contractor's Cost Proposal, consisting of _____ page(s) attached hereto and incorporated herein by reference. Payment is to be made no later than thirty (30) days after submittal of undisputed invoice.
- B. **Retainage and Partial Payments.** Partial payments to the Contractor shall be made monthly, based on the value of Work completed as determined by the County, plus the value of materials and equipment suitably stored, insured and protected at the construction site. The Contractor shall submit a payment request for Work completed during the preceding calendar month to the Department of Watershed Manager for review and approval on or before last day of each month. If approved by the Project Manager or Designated Representative, the approved amount, less retainage, shall be paid

to the Contractor thirty (30) days after the date the approved payment request is received by the County Finance Department. If a payment request is not approved by the County, then no payment shall be made to the Contractor until after the Project Manager or Designated Representative approves the payment request. The amount of retainage shall be as follows:

- (1) Ten percent (10%) of each partial payment shall be withheld as retainage until the value of fifty percent (50%) of the Contract Price, including Change Orders and other authorized additions provided in the Contract, is due;
- (2) When fifty percent (50%) of the Contract Price, as described above, becomes due and the manner of completion of the Work and its progress, quality, schedule are reasonably satisfactory to the County, and there are no outstanding claims by the Contractor, Subcontractors, lower tier subcontractors, as that term is defined by state law, or Suppliers, the withholding of retainage shall be discontinued.
- (3) If after discontinuing retainage, the County determines that the Work is unsatisfactory or has fallen behind schedule, withholding of ten percent (10%) of each request for payment may be resumed. When the Work has reached Substantial Completion and the County determines the Work to be reasonably acceptable, the Contractor shall submit an invoice or other documents as may be required and receive payment of retainage within thirty (30) days. If minor items remain incomplete at that time, an amount equal to two hundred percent (200%) of the value of each item, as determined by the County, shall be withheld until such items are completed.
- (4) The Contractor shall within ten days from the Contractor's receipt of each payment from the County pass through payments to Subcontractors and shall reduce each Subcontractor's retainage in the same manner as the Contractor's retainage is reduced by the County. The Subcontractor shall, within ten days from the Subcontractor's receipt of payment, pass through payments to lower tier subcontractors and shall reduce each lower tier subcontractor's retainage in the same manner as the Subcontractor's retainage is reduced.
- (5) Contractor and County agree to abide by all applicable provisions of Georgia state law concerning retainage, including but not limited to O.C.G.A. § 13-10-80 and 13-10-81. If the terms of this contract concerning retainage conflict with state law, state law governs.
- (6) *For contracts relating to the installation, extension, improvement, maintenance or repair of any water or sewer facility add the following provision:* As required by O.C.G.A. § 13-10-81, Retainage shall be invested by the County at the current market rate and any interest earned on the retained amount shall be paid to the Contractor when the Project has been completed within the time limits specified and for the price specified in this Contract or in change orders approved in accordance with the terms of this Contract, upon the County's receipt of

certification by the engineer in charge of the Project in the manner and form required by O.C.G.A. §13-10-81.

C. **Payment Requests and Invoices.** Payment Requests and invoice(s) must be submitted as follows:

(1) Original(s) must be submitted to:

Finance
Maloof Bldg. Insert address
Reference Contract Number
Insert User Department Address here.

(2) Upon award, Prime Contractor(s) with Local Small Business Enterprise (LSBE) Subcontractor(s) shall enter utilization reports electronically at www.dekalblsbe.info. Proof of payment to the LSBE Subcontractor must be uploaded and submitted. LSBE Subcontractors shall confirm receipt of payment from the Prime, electronically also, at www.dekalblsbe.info.

D. **Title.** All equipment, materials, and Work covered by partial payments shall, upon payment thereof, become the sole property of the County, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of equipment, materials, and Work upon which payments have been made, or the restoration of any damaged Work.

E. **Final Payment.** Within sixty (60) days after the Work is fully completed and accepted by the County, the balance due hereunder shall be paid; provided, however, that final payment shall not be made until said Contractor shall have completed all Work necessary and reasonably incidental to the Contract, including final cleanup and restoration. Acceptance of the Work and the making of final payment shall not constitute a waiver of any claims by the County. All claims by the Contractor for breach of contract, violation of state or federal law, or compensation and extensions of time shall be submitted in writing to the Chief Executive Officer within sixty (60) days after completion and acceptance of the Work as herein provided, or all such claims shall be forever barred.

IV. NOTICE

Any notice or consent required to be given by or on behalf of any party hereto to any other party hereto shall be in writing and shall be sent to the County's Chief Executive Officer and the Executive Assistant or to the Contractor or his authorized representative on the work site by (a) registered or certified United States mail, return receipt requested, postage prepaid, (b) personal delivery, or (c) overnight courier service. All notices sent to the addresses listed below shall be binding unless said address is changed in writing no less than fourteen days before such notice is sent. Future changes in address shall be effective upon written notice being given by the Contractor to the County's Executive Assistant or by the County to the Contractor's

authorized representative via certified first class U.S. mail, return receipt requested. Such notices will be addressed as follows:

If to the County:

Chief Executive Officer
The Maloof Center
1300 Commerce Drive, 6th Floor
Decatur, Georgia 30030

and

Executive Assistant
The Maloof Center
1300 Commerce Drive, 6th Floor
Decatur, Georgia 30030

With a copy to:

Director of the Department of Purchasing and Contracting
The Maloof Center
1300 Commerce Drive, 2nd Floor
Decatur, Georgia 30030

With a copy to:

DRAFT SAMPLE

If to the Contractor:

With a copy to:

(Insert Contractor name and address)

V. FEDERAL WORK AUTHORIZATION

- A. Pursuant to O.C.G.A. §13-10-91, the County cannot enter into a contract for the physical performance of services unless the Contractor, its Subcontractor(s) and sub-subcontractor(s), as that term is defined by state law, register and participate in the Federal Work Authorization Program to verify specific information on all new employees.
- B. Contractor certifies that it has complied and will continue to comply throughout the Contract Term with O.C.G.A. §13-10-91 and any related and applicable Georgia Department of Labor Rule.

- C. Contractor agrees to sign an affidavit evidencing its compliance with O.C.G.A. §13-10-91. The signed affidavit is attached to this Contract as Attachment B.
- D. Contractor agrees that in the event it employs or contracts with any Subcontractor(s) in connection with this Contract, Contractor will secure from each Subcontractor an affidavit that certifies the Subcontractor's current and continuing compliance with O.C.G.A. §13-10-91 throughout the Contract Term. Any signed Subcontractor affidavit(s) obtained in connection with this Contract shall be attached hereto as Attachment C.
- E. Each Subcontractor agrees that in the event it employs or contracts with any sub-subcontractor(s), each Subcontractor will secure from each sub-subcontractor an affidavit that certifies the sub-subcontractor's current and continuing compliance with O.C.G.A. §13-10-91 throughout the Contract Term. Any signed sub-subcontractor affidavit(s) obtained in connection with this Contract shall be attached hereto as Attachment D.

VI. CORPORATE AUTHORITY

Contractor agrees to execute the Certificate of Corporate Authority, attached hereto as Attachment E. The officials of the Contractor executing this Contract are duly and properly in office and are fully authorized and empowered to execute the same for and on behalf of the Contractor. Contractor warrants that it has all requisite power and authority to enter into and perform its obligations under this Contract, and that the execution and delivery by the Contractor of this Contract and the compliance by the Contractor with all of the provisions of this Contract (i) is within the purposes, powers, and authority of the Contractor; (ii) has been done in full compliance with applicable law and has been approved by the governing body of the Contractor and is legal and will not conflict with or constitute on the part of the Contractor a violation of or a breach of or a default under any indenture, mortgage, security deed, pledge, note, lease, loan, or installment sale agreement, contract, or other agreement or instrument to which the Contractor is a party or by which the Contractor is otherwise subject or bound, or any license, judgment, decree, law, statute, order, writ, injunction, demand, rule, or regulation of any court or governmental agency or body having jurisdiction over the Contractor; and (iii) has been duly authorized by all necessary action on the part of the Contractor. This Contract is the valid, legal, binding and enforceable obligation of the Contractor.

VII. PERFORMANCE AND PAYMENT BONDS AND INSURANCE REQUIREMENTS

- A. Within ten (10) days from the date of Notice of Award of this Contract, the Contractor, as principal, shall give a Contract performance bond, attached hereto as Attachment F and a payment bond, attached hereto as Attachment G, **each equal to 100% of the Contract price**, for the use of all persons doing work or furnishing skills, tools, machinery, or materials under or for the purpose of this Contract, in accordance with the applicable provisions of Georgia state law, including but not limited to, O.C.G.A. §13-10-1 and §36-

91-21 *et seq.* The bonds shall be underwritten by a surety company licensed to write bonds in the State of Georgia, listed in the most current U.S. Treasury Circular No. 570, and which have a current A.M. Best rating of "A" (Excellent) with a Financial Size Category of XII or better. The life of these bonds shall extend throughout the Contract Term including a sixty (60) day maintenance period (where applicable) and a twelve-month guarantee period after the completion of Work performed under this Contract. The bonds shall issue on the forms provided by the County as part of this Contract.

B. It is further agreed between the parties hereto that if at any time after the execution of this Contract and the surety bonds, the County shall deem the surety or sureties upon such bonds to be unsatisfactory, or if, for any reason, such bonds cease to be adequate to cover the performance of the Work, the Contractor shall, at its sole expense and within five (5) days after the receipt of notice from the County to do so, furnish additional bond or bonds in such form and amount and with such surety or sureties as shall be satisfactory to the County.

C. The Contractor shall, without expense to the County, provide certificates of insurance, and copies of signed insurance policies including declarations pages from companies that are authorized to engage in the insurance business in the state of Georgia and are otherwise acceptable to the County Finance Director or his/her designee, attached hereto as Attachment H. Such insurance shall be placed with admitted insurers that maintain an A.M. Best's rating of not less than A (Excellent) with a Financial Size Category of VII or better with coverage forms acceptable to Contractor. The insurance described below shall be maintained uninterrupted for the duration of the project, including any warranty periods, and shall protect Contractor, and others as required by contract, for liabilities in connection with work performed by or on behalf of Contractor, its agents, representatives, employees or Contractors.

(1) *Workers Compensation Insurance.* Statutory workers compensation insurance is to be provided in compliance with the requirements of Georgia law with limits not less than the following:

Employer's liability insurance by accident, each accident	\$1,000,000
Employer's liability insurance by disease, policy limit	\$1,000,000
Employer's liability insurance by disease, each employee	\$1,000,000

(2) *Commercial General Liability Insurance.* Commercial general liability insurance is to be provided with limits not less than the following:

\$1,000,000 per occurrence for bodily injury and property damage liability
\$1,000,000 personal and advertising injury liability
\$2,000,000 general aggregate
\$2,000,000 products-completed operations aggregate
\$ 100,000 damage to rented premises (each occurrence)
\$ 5,000 medical expense (any one person)

- (3) *Umbrella or Excess Insurance.* Umbrella or excess insurance is to be provided with General Liability, Auto Liability and Employers Liability scheduled as underlying policies with limits not less than the following:

\$5,000,000 per occurrence
 \$5,000,000 aggregate

- (4) *Comprehensive Automobile Liability Insurance.* Comprehensive automobile liability insurance with form coverage is to be provided for all owned, non-owned and hired vehicles with combined single limit of \$1,000,000. Automobile liability insurance shall be written on ISO Business Auto Coverage Form CA 0001 (1990 edition or later), or a substitute form providing equivalent coverage, and shall cover liability for bodily injury and property damage arising from the use or operation of any automobile, including those owned, hired or otherwise operated or used by or on behalf of Contractor. The policy must include Broadened Pollution Liability Endorsement CA9948 12 93.

- (5) *Builder's Risk Insurance Coverage (If Applicable).* DeKalb County shall procure and maintain Builders Risk Insurance on the entire work which provides "All-risk" form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism, malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage (other than caused by flood), and such other perils or causes of loss as may be specifically required by Supplementary Conditions) until Final Completion and Acceptance of the Project. Such policy of insurance shall contain at least the following sub-limits of insurance and deductibles:

Sub-limits:	
Property in Transit	\$1,000,000
Property in Offsite Storage	\$1,000,000
Plans & Blueprints	\$25,000
Debris Removal	25% of Insured Physical Loss
Delay in Completion / Soft Cost	TBD
Ordinance of Law (Increased Cost of Construction)	\$1,000,000
Flood and Earthquake	TBD – Full Contract Value
Deductibles:	
Flood and Earthquake	\$25,000
Water Damage other than Flood	\$100,000
All other Perils	\$10,000

- D. The County, its elected officials, officers, employees and agents, hereinafter referred to in this article and in the article entitled "Certificates of Insurance" as "the County and its officers" are to be named as additional insured on all policies of insurance except worker's compensation insurance with no cross suits exclusion. The County and its officers shall be included as additional insureds under commercial general liability and commercial umbrella insurance, for liabilities arising out of both the ongoing and completed operations of Contractor. Such additional insured coverage shall be endorsed to Contractor's policy by attachment of ISO Additional Insured Endorsement forms CG 20 10 10 01 (ongoing operations) and CG 20 37 10 01 (products-completed operations), or form(s) providing equivalent coverage.
- E. All coverages required of the Contractor will be primary over any insurance or self-insurance program carried by the County.
- F. If the Contractor is a joint venture involving two (2) or more entities, then each independent entity will satisfy the limits and coverages specified here or the joint venture will be a named insured under each respective policy specified.
- G. In addition to procuring and maintaining commercial general liability insurance, automobile liability and commercial umbrella insurance, for the Contract Term, Contractor shall continue to procure and maintain the products-completed operations liability insurance coverage and commercial umbrella insurance after the Work is substantially complete for the entire Contract Term or for the applicable five-year statutory limitation, whichever is greater. For such period of time, all terms and conditions of such coverage shall remain unchanged, including the limits specified herein and the requirement to provide the County with coverage as an additional insured.
- H. Contractor agrees to waive all rights of subrogation and other rights of recovery against the County and its officers and shall cause each Subcontractor to waive all rights of subrogation for all coverage.
- I. Failure of the County to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the County to identify a deficiency from evidence provided will not be construed as a waiver of the Contractor's obligation to maintain such coverage.
- J. Contractor understands and agrees that the purchase of insurance in no way limits the liability of the Contractor.

VIII. CERTIFICATES OF INSURANCE

- A. Certificates shall state that the policy or policies shall not expire, be cancelled or altered without at least sixty (60) days prior written notice to the County. Policies and Certificates of Insurance listing the County and its officers as additional insureds (except for workers' compensation insurance) shall conform to all terms and conditions

(including coverage of the indemnification and hold harmless agreement) contained in this Contract.

- B. The Contractor agrees to name the County and its officers as additional insured on the commercial general liability insurance, using the ISO Additional Insured Endorsement forms CG20101001 (ongoing operations) and CG20371001 (products-completed operations) forms, or form(s) providing equivalent coverage.
- C. Certificates of Insurance must contain the policy number, policy limits, and policy expiration date of all policies issued in accordance with this Contract; the location and operations to which the insurance applies. Certificates must be provided annually for the duration of the project. If applicable, a specific statement must be included that blasting coverage is included to the extent such risk is present; that Contractor's protective coverage applies to any Subcontractor's operations; and Contractor's contractual liability insurance coverage applies to any Subcontractor.
- D. This insurance for the County as the additional insured shall be as broad as the coverage provided for the named-insured Contractor. It shall apply as primary insurance before any other insurance or self-insurance, including any deductible, non-contributory, and waiver of subrogation provided to the County as the additional insured.
- E. The Contractor shall be wholly responsible for securing certificates of insurance coverage as set forth above from all Subcontractors who are engaged in the Work.
- F. If the County shall so request, the Contractor will furnish the County for its inspection and approval such policies of insurance with all endorsements, or confirmed specimens thereof certified by the insurance company to be true and correct copies.
- G. Contractor shall be responsible and have the financial wherewithal to cover any deductibles or retentions included on the certificate of insurance.
- H. Such certificates should be sent to the County and must identify the "Certificate Holder" as follows:

DeKalb County, Georgia
Director of Purchasing & Contracting
The Maloof Center
1300 Commerce Drive, 2nd Floor
Decatur, Georgia 30030
- I. Copies of Required Insurance policies with Declarations Page(s) shall be attached hereto as Attachment H.

IX. OCIP INSURANCE COVERAGE

In connection with the Work, and for the Contractor and those subcontractors deemed eligible by the County for participation, the County will implement an Owner Controlled Insurance Program

("OCIP"), providing certain insurance coverages as detailed herein. The insurance coverages provided by the OCIP apply only to Work performed on the Project site. The Contractor and its Subcontractors shall provide their own insurance for off-site activities. The Builder's Risk/All Risk Property Insurance component of the OCIP will expressly exclude coverage on Contractor's and Subcontractors' machinery, tools, and equipment not destined to become a part of the Project Work.

- A. OCIP Manual of Insurance Procedures.** The OCIP coverage provided by the County shall be further detailed in, and the Contractor requirements with respect to the OCIP shall be described in, the *General Liability Wrap-Up Manual ("the Manual")* to be incorporated into the Contract Documents and to be issued as **Attachment I**. This Manual includes information on the following OCIP coverages: Commercial General Liability, Excess Liability, and Builder's Risk/All Risk Property Insurance.
- B. Exclusion of Contractor Insurance Costs.** Because the County is providing specific limits of General Liability, Excess Liability and Property Coverage (for eligible workers), following enrollment in the OCIP the Contractor shall exclude all General Liability, Excess Liability, and Property Coverage (Builder's Risk) costs from the Contract Price and its bid for itself and for all included Subcontractors. The Contractor warrants, for itself and all included Subcontractors, that all such on-site insurance costs for the coverages listed above *shall be excluded in their entirety from the Contract Price, and no such coverage* is duplicated by the Contractor or any Subcontractor of any tier. The Contractor and its Subcontractors shall make available to the County all documentation deemed necessary by the County in order to verify this cost exclusion. If requested by the County, the Contractor shall provide complete copies of its and its Subcontractors' current insurance policies in order to assist in the verification of the accuracy of the exclusion of insurance costs and to verify the accuracy of the information provided by the Contractor and its Subcontractors in the *Owner Controlled Insurance Program (OCIP) Contractor Bidding Instructions*. See **Attachment K**.

X. ATTACHMENTS

- A.** This Contract includes the following Attachments and Exhibits all of which are incorporated herein by reference:
- Attachment A, General Requirements, GR-1 through GR-46.
 - Attachment A-1, Supplementary Conditions, SC1 through SC-2.
 - Attachment B, Contractor's Affidavit.
 - Attachment C, Subcontractor's Affidavit(s).
 - Attachment D, Sub-subcontractor's Affidavit(s).
 - Attachment E, Certificate of Corporate Authority or Joint Venture Certificates
 - Attachment F, Performance Bond and Accompanying Power of Attorney
 - Attachment G, Payment Bond and Accompanying Power of Attorney
 - Attachment H, Certificate of Insurance with Declarations Page(s)

Attachment I, Addenda Acknowledgement

Attachment J, Executive Order No. 2014-4 New Ethics Policy

Attachment K, General Liability Wrap-Up Manual

Attachment L, Other Required Attachments

Exhibit 1.1, Contractor's Cost Proposal

Exhibit 2, Technical Specifications

- B. In addition to the foregoing, the Bid Document Package dated _____, the original of which is maintained in the County's Department of Purchasing and Contracting, forms an essential part of this Contract as if fully set out herein.

IX. FUNDING CLAUSE

(If Applicable)

The Contractor has been informed and understands that funding for this Contract is provided under the _____ Act and expressly agrees that performance of the Contract, in whole or in part, is contingent upon and subject to the availability of such funding under the _____ Act to DeKalb County, Georgia.

X. FEDERAL AND/OR STATE FUNDING/LAW

(If Applicable)

Insert any requirements pertaining to Federal and/or State funding requirements or other legal requirements.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have set their hands and caused their seals to be affixed hereupon in four (4) counterparts, each to be considered as an original by their authorized representatives.

NAME OF CONTRACTOR

DEKALB COUNTY, GEORGIA

By: _____
Signature (SEAL)

_____ **by Dir.**(SEAL)

Name (Typed or Printed)

LEE MAY
Interim Chief Executive Officer
DeKalb County, Georgia

Title

Date

Federal Tax I.D. Number

Date

ATTEST:

ATTEST:

Signature

BARBARA H. SANDERS, CCC
Clerk of the Chief Executive Officer
and Board of Commissioners of
DeKalb County, Georgia

Name (Typed or Printed)

Title

APPROVED AS TO SUBSTANCE:

APPROVED AS TO FORM:

DeKalb County
Department Director

County Attorney Signature

County Attorney Name
(Typed or Printed)

ATTACHMENT A

GENERAL REQUIREMENTS

INDEX TO GENERAL REQUIREMENTS

<u>Section</u>	<u>Title</u>
GR-1	Definitions of Terms
GR-2	Prior Use by County.....
GR-3	Contractor’s Obligations.....
GR-4	Authority of the County
GR-5	Changes in the Work and Change Orders.....
GR-6	Time for Completion.....
GR-7	Schedules, Reports, and Records
GR-8	County’s Right to Suspend or Terminate Work
GR-9	Final Inspection
GR-10	Warranties, Guarantees and Correction of Work.....
GR-11	Contractor’s Personnel and Independent Contractor Status
GR-12	Subcontracting
GR-13	Assignments.....
GR-14	Indemnification and Hold Harmless
GR-15	Royalties and Patents
GR-16	Laws and Regulations.....
GR-17	Permits and Inspection Fees.....
GR-18	Land and Rights-of-Way.....
GR-19	Protection of Work, Property, and Persons.....
GR-20	Prohibited Interests
GR-21	First Source Jobs Ordinance
GR-22	Foreign Corporations
GR-23	Specification and Drawings
GR-24	Contractor’s Submittals
GR-25	As-Built Drawings
GR-26	Examination of Work by Contractor.....
GR-27	Inspection and Testing of Materials.....
GR-28	Inspection of Work
GR-29	Requests for Substitutions.....
GR-30	Rejections of Work and Materials
GR-31	Materials, Services, and Facilities
GR-32	Utilities During Construction.....
GR-33	Temporary Heat and Air Conditioning
GR-34	Maintenance Manual.....
GR-35	Weather Conditions
GR-36	Lines, Grades, and Measurements
GR-37	Cleaning Up

GR-38	Barricades
GR-39	No Third-Party Beneficiary.....
GR-40	Severability
GR-41	Interpretation.....
GR-42	Prior Contracts; Conflict in Documents.....
GR-43	Entire Agreement.....
GR-44	Counterparts.....
GR-45	Interpretation.....
GR-46	Venue
GR-47	Right to Audit.....

DRAFT SAMPLE

GR-1. DEFINITIONS OF TERMS

The section captions contained in this Contract are for convenience only and do not in any way limit or amplify any term or provision hereof. The use of the terms "hereof," "hereunder" and "herein" shall refer to this Contract as a whole, inclusive of the Attachments, except when noted otherwise. The use of the masculine or neuter genders herein shall include the masculine, feminine and neuter genders and the singular form shall include the plural when the context so requires. The following terms shall have the meanings indicated:

“Addendum” or “Addenda” shall mean written or graphic instruments issued prior to the execution of the Contract, which modify or interpret the Work, or the Invitation to Bid by additions, deletions, clarifications, or corrections.

“Bid” shall mean the offer of the Bidder submitted on the prescribed form setting forth the price(s) for the Work to be performed.

“Bid Document Package” shall consist of documents entitled as follows: Acknowledgement of Contractor, Advertisement for Bids, Instructions to Bidders, Addenda, Business License, Utility Systems Contractor’s License, Utility Manager’s Certificate, Utility Foreman’s Certificate, General Contractor’s License, Bidder’s Lump Sum Cost, Bidder’s Unit Price, First Source Jobs Ordinance Acknowledgment, LSBE Program Information Sheet with LSBE Exhibits, Certificate of Corporate Bidder, Certificate of Authority/Joint Venture, Bidder’s Affidavit of Compliance with O.C.G.A.13-10-91, Reference and Release Form, Preferred Employee Tracking Form, Subcontractor Tracking Form, Bid Bond and Power of Attorney, Public Works Construction Affidavit and Oath of Successful Bidder, Technical Specifications, and Drawings.

“Bidder” shall mean any person, firm, or corporation submitting a Bid for the Work.

“Bonds” shall mean bid, performance, and payment bonds and other instruments of security, furnished by the Contractor and his surety in accordance with the Contract.

“Change Order” includes the term “amendment” and shall mean a written order authorizing a change in the Work, if applicable, and an adjustment in the Contract Price, Contract Time or Contract Term, as adopted and approved by the Contractor and the DeKalb County Governing Authority, or the Chief Executive Officer, if exempted from Governing Authority adoption and approval in accordance with the express terms of this Contract.

“Contract” or “Agreement” shall consist of the written Contract executed by the parties, all attachments to the Contract, Change Orders, Field Orders, and the Bid Document Package. The intent of these documents is for the Contractor to furnish all materials, appliances, tools, labor and services of every kind necessary for the proper execution of the Work, and the terms and conditions of payment therefore.

“Contract Price” shall mean the total monies payable to the Contractor under the terms and conditions of the Contract.

“Contract Time” shall mean the number of days stated in the Contract for the completion of the Work.

“Contract Term” shall mean the length of time the Contract shall remain in effect.

“Contractor” or “General Contractor” shall mean the individual, firm, joint venture or corporation undertaking the execution of the Work as an independent contractor under the terms of the Contract and acting through his or its agents or employees.

“County” shall mean DeKalb County, Georgia.

“Day(s)” shall mean calendar day(s).

“Drawings” shall mean the part of the Contract which shows, largely through graphical presentation, the characteristics and scope of the Work to be performed and which have been prepared or approved by the County. The Drawings are included in the Bid Document Package.

“Field Order” shall mean a written order issued by an authorized County official/employee to the Contractor during construction effecting a change in the Work by authorizing an addition, deletion, or revision in the Work within the general scope of the Work not involving an adjustment in the Contract Price or a change to the Contract Time or Term. No Field Order shall be valid or effective unless it is signed by the County employee(s) who has been authorized in writing by the Chief Executive Officer or his/her designee to execute Field Orders.

“Notice of Award” shall mean a written notice of the acceptance of the Bid from the County to the successful Bidder.

“Notice to Proceed” shall mean a written communication issued by the County authorizing the Contractor to proceed with the Work and establishing the date of commencement of the Work. The effective date of the Notice to Proceed shall be the date set forth on the Notice to Proceed.

“Project” shall mean the undertaking to be performed as provided in the Contract.

“Shall” is mandatory; “may” is permissive.

“Specifications” or “Technical Specifications” shall mean a part of the Contract consisting of written descriptions of a technical nature regarding materials, equipment, construction systems, standards, and workmanship specified for this Project.

“Subcontractor” shall mean any person, firm, or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work.

“Submittals” shall mean all shop drawings, diagrams, illustrations, brochures, schedules, samples, and other data which are prepared by the Contractor, a Subcontractor, manufacturer,

Supplier, or distributor, which illustrate how specific portions of the Work shall be fabricated or installed.

“Substantial Completion” or “Substantial Completion of the Work” shall mean that date determined by the County when the construction of the Project or an expressly stipulated part thereof is sufficiently completed, in accordance with the Contract, so that the Project or stipulated part can be fully utilized for the purposes for which it is intended.

“Superintendent” shall mean the Contractor’s authorized on-the-job representative designated in writing by the Contractor prior to commencement of any work.

“Supplier” shall mean any person, supplier, or organization who furnishes materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.

“Work” shall have the meaning assigned to that term in the article in the Contract entitled Scope of Work.”

GR-2. PRIOR USE BY COUNTY

Prior to completion of the Work, the County may take over operation and/or use of the Project or portions thereof. Such prior use of facilities by the County shall not be deemed as acceptance of any Work or relieve the Contractor from any of the requirements of the Contract.

GR-3. CONTRACTOR’S OBLIGATIONS

The Contractor shall, in good workmanlike manner, do and perform all work and furnish all supplies and materials, machinery, equipment, facilities, and all things necessary or proper to perform and complete all the Work within the time herein specified and in accordance with the provisions of this Contract, the Specifications, the Drawings, and any and all supplemental drawings pertaining to the Work. Contractor shall furnish, erect, maintain, and remove such construction, plants, and such temporary works as may be required. Contractor alone shall be responsible for the safety, efficiency, and adequacy of its plant, appliances, and methods, and for any damage which may result from their failure or their improper construction, maintenance, or operation. The Contractor shall observe, comply with, and be subject to all terms, conditions, requirements and limitations imposed by the Contract and local ordinances, and state and federal laws; and shall do, carry on, and complete the entire Work.

GR-4. AUTHORITY OF THE COUNTY

- A. The Contractor shall perform all of the Work under the general direction, and to the entire satisfaction, approval, and acceptance of the County. The County shall decide all questions relating to measurements of quantities, the character and

acceptability of the Work performed, and as to whether the rate of progress is such that the Work will be completed within the time limit of the Contract. All questions as to the meaning of the Drawings and the Specifications will be decided by the County.

- B. The approval of the County of any materials, plant, equipment, Drawings, or of any other items executed, or proposed by the Contractor, shall be construed only to constitute an approval of general design. Such approval shall not relieve the Contractor from the performance of the Work in accordance with the Contract, or from any duty, obligations, performance guarantee, or other liability imposed upon him by the provisions of the Contract.
- C. Whenever in this Contract, the words “directed,” “required,” “permitted,” “ordered,” or words of like import are used, it shall be understood that the direction, requirement, permission, or order of the County is intended, and similar words, “approved,” “acceptable,” “satisfactory,” or words of like import shall mean approved by, acceptable to, or satisfactory to the County.

GR-5. CHANGES IN THE WORK, FIELD ORDERS, AND CHANGE ORDERS

- A. All changes, alterations, or instructions in regard to any feature of the Work that differ from the Drawings and Specifications must be approved in writing by Field Order or Change Order in all cases. No verbal instruction or order will be regarded as a basis for a claim for extra compensation or time.
- B. If a minor change in the Work is found to be necessary due to actual field conditions, the Contractor shall submit detailed drawings and written notification of the problems necessitating such departure for approval by the County before making the change. If the Contractor fails to make such request, no excuse will be entertained thereafter for Contractor’s failure to carry out the Work in the required manner and to provide required guarantees, warranties, and Bonds, and Contractor shall not be entitled to any change in the Contract Price, Contract Time or the Contract Term.
- C. The County may at any time, by issuing a Field Order, make changes in the details of the Work. The Contractor shall proceed with the performance of any changes in the Work so ordered by the County unless such Field Order entitles the Contractor to a change in Contract Price, Time, and/or Term, in which event the Contractor shall give the County written notice thereof within fifteen (15) days after the receipt of the ordered change, and the Contractor shall not execute such changes until it receives an executed Change Order from the County. No extra cost or extension of time shall be allowed unless approved by the County and authorized by execution of a Change Order.

- D. The County may at any time order changes within the scope of the Work without invalidating the Contract.
- E. No claims for extra cost or time will be considered based on an escalation of prices throughout the Contract Term. The value of any work covered by a Change Order or of any claim for increase or decrease in the Contract Price shall be determined by one of the following methods in the order of precedence listed below.
- (1) Unit prices previously approved.
 - (2) An agreed lump sum.
 - (3) The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the changed Work. In addition, there shall be added an amount agreed upon but not to exceed fifteen percent (15%) of the actual cost of such work to cover the cost of general overhead and profit.
- F. The parties' execution of any Change Order constitutes a final settlement of all matters relating to the change in the Work which is the subject of the Change Order, including, but not limited to, all direct or indirect costs associated with such change and any and all adjustment to the Contract Price and the construction schedule. In the event a Change Order increases the Contract Price, Contractor must include the Work covered by such Change Orders in requests for payment as if such Work were originally part of the Contract.

GR-6. TIME FOR COMPLETION

- A. The Contractor understands and agrees that the date of the beginning of Work, rate of progress, and time for completion of the Work are essential conditions of this Contract.
- B. The Contractor agrees that the Work shall be executed regularly, diligently, and uninterrupted at such rate of progress as will insure its full completion thereof within the Contract Time. It is expressly understood and agreed, by and between the Contractor and the County, that the time for the completion of the Work described herein is a reasonable time for the completion of the same, taking into consideration the average climate range and usual industrial conditions prevailing in this locality.
- C. If extraordinary adverse weather conditions are the basis for a claim for additional time, such claim shall be supported by the attachment of records of the National Oceanic and Atmospheric Administration showing meaningful variances from historic trends thereby substantiating the fact that weather conditions were

abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction activities. The Contractor shall be entitled to an extension of the Contract Time only for extraordinary adverse weather conditions that unavoidably delay activities scheduled at that time, and then only for the number of days of delay which are due solely to such extraordinary adverse weather conditions. The Contractor is not entitled to any costs associated with extraordinary adverse weather conditions.

- D. The County shall not be liable to the Contractor or any Subcontractor for claims or damages of any nature caused by or arising out of delays, regardless of cause. The sole remedy against the County for delays shall be the allowance of additional time for completion of the Work, the amount of which shall be based on actual and unavoidable delay.

GR-7. SCHEDULES, REPORTS, AND RECORDS

- A. The Contractor shall submit to the County such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records, and other data as the County may request concerning the Work performed or to be performed. The Contractor shall also submit a schedule of payments that he anticipates earning during the course of the Work.
- B. That Contractor shall coordinate and hold a meeting with its major Subcontractors and the County to discuss the Project schedule. Such meeting shall be held prior to Commencement of the Work under this Contract, but in no event later than ten (10) days after execution of this Contract by all parties. At that meeting, the Contractor shall present a draft Project schedule, and the Contractor and its Subcontractors shall, in collaboration with the County, assist in the preparation of a detailed and specific construction schedule. The Contractor shall be responsible for preparing and updating such schedule, which shall be complete in all respects and shall, when approved by the County, become the Construction Schedule and be automatically incorporated into the Contract and shall not be changed without the prior written consent of the County. The Construction Schedule shall not exceed the Contract Time, shall be revised and updated at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract, shall utilize Critical Path Method (CPM) software that is compatible with County software, and shall provide for expeditious and practicable execution of the Work. The Construction Schedule shall be cost-loaded.
- C. The Construction Schedule shall, in such detail as the County may require, show the order in which Contractor will carry on the Work, including dates on which the various parts of the Work will start, and the estimated date of completion of each part. It shall also depict all requisite shop drawing submittals and approvals,

manufacturing, fabrication, the installation of materials, supplies and equipment, testing, start-up, and training.

- D. The Contractor shall prepare and keep current, for the County's approval, a schedule of submittals which is coordinated with the Construction Schedule and allows the County reasonable time to review submittals. The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the County.
- E. In the event the County determines that the performance of the Work has not progressed or reached the level of completion required by the Contract, the County will have the right to order the Contractor to take corrective measures necessary to expedite the progress of construction, including, without limitation, (1) working additional shifts or overtime; (2) supplying additional manpower, equipment, and facilities; and (3) other similar measures (hereinafter referred to collectively as "Extraordinary Measures"). Such Extraordinary Measures must continue until the progress of the Work complies with the stage of completion required by the Contract and the Construction Schedule. The County's right to require Extraordinary Measures is solely for the purpose of ensuring the Contractor's compliance with the Construction Schedule. The Contractor is not entitled to an adjustment in the Contract Price for undertaking Extraordinary Measures required by the County. The County may exercise the rights furnished the County under or pursuant to this paragraph as frequently as the County deems necessary to ensure that the Contractor's performance of the Work will comply with the completion date set forth in the Contract as the Contract Time.

GR-8. COUNTY'S RIGHT TO SUSPEND OR TERMINATE WORK

- A. *Termination for Convenience.* County may, for its own convenience and at its sole option, without cause and without prejudice to any other right or remedy of County, elect to terminate the Contract by delivering to the Contractor, at the address listed in the Notices article of this Contract, a written notice of termination specifying the effective date of termination. Such notice shall be delivered to Contractor at least thirty (30) days prior to the effective date of termination.
- B. *Termination for Default.* If the Contractor is adjudged bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the Contractor or for any of his property, or if he files a petition to take advantage of any debtor's act or to reorganize under the bankruptcy or applicable laws, or if he fails to supply sufficient skilled workers or suitable materials or equipment, make payments to Subcontractors or for labor, materials or equipment, or if he disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction of the Work, or if he otherwise violates any provision of the Contract, then the County may, without prejudice to

any other right or remedy, and after giving the Contractor and his surety a maximum of seven (7) days from delivery of a written notice, declare the Contract in default and terminate this Contract. In that event, the County may take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor. The County may cause the Work to be completed and corrected by whatever method it deems expedient. If called upon by the County to finish the Work, the Contractor's surety shall promptly do so. In any case, the Contractor and its surety shall be liable to the County for any and all damages and costs incurred by the County as a result of any default by the Contractor, including without limitation all costs of completion or correction of the Work, liquidated damages, attorneys' fees, expert fees, and other costs of dispute resolution. Termination of this Contract pursuant to this paragraph may result in disqualification of the Contractor from bidding on future County contracts for a period of time not to exceed five (5) years.

- C. If Contractor's services are terminated by the County pursuant to paragraph A or B in this General Requirement, the termination will not affect any rights or remedies of the County then existing or which may thereafter accrue against Contractor or its surety. Any retention or payment of moneys due Contractor by County will not release Contractor from liability. If it is determined that the Contractor was not in default or that the failure to perform is excusable, a termination for default will be considered to have been a termination for the convenience of the County, and the rights and obligations of the parties shall be governed accordingly.
- D. In case of termination of this Contract before completion of the Work, Contractor will be paid only for materials and equipment accepted by the County and the portion of the Work satisfactorily performed through the effective date of termination as determined by the County.
- E. Except as otherwise provided in this General Requirement, neither party shall be entitled to recover lost profits, special, consequential or punitive damages, attorney's fees or costs from the other party to this Contract for any reason whatsoever.
- F. The parties' obligations pursuant to this General Requirement shall survive any Acceptance of Work, or expiration or termination of this Contract.

GR-9. FINAL INSPECTION

Upon notice from the Contractor that the Work is completed, the County shall make a final inspection of the Work, and shall notify the Contractor of all instances where the Work fails to comply with the Drawings and Specifications, as well as any defects the County may discover. At no cost to the County, the Contractor shall immediately make such alterations as are

necessary to bring the Work into compliance with the Contract, the Drawings, and Specifications.

GR-10. WARRANTIES, GUARANTEES AND CORRECTION OF WORK

- A. The Contractor warrants to the County that materials and equipment furnished under the Contract will be new and of good quality, unless otherwise required or permitted by the Contract; that the Work will be free from defects not inherent in the quality required or permitted; and that the Work will conform to the requirements of the Contract. Work not conforming to these requirements, including substitutions not properly approved and authorized, is considered defective. The County, in its sole discretion, may exclude from the Contractor's warranty; remedies for damage or defect which the County determines were caused by abuse; modifications not executed by the Contractor; improper or insufficient maintenance; improper operation; and normal wear and tear and normal usage.
- B. Upon the completion of the Work, and as a condition of final payment, the Contractor shall guarantee in writing that all Work has been accomplished in conformance with the Contract. If required by the County, the Contractor shall also furnish additional satisfactory evidence as to the kind and quality of materials and equipment.
- C. The Contractor shall promptly, and in no event later than 48 hours after receiving written demand from the County, remedy any error, omission, defect, or non-compliance in the Work discovered by the County during construction or at any time thereafter until one year after the final completion of the Work. Nothing herein shall be deemed to shorten any statutory period of limitation otherwise applicable to any legal action by the County against the Contractor.
- D. Contractor shall pay for any damage caused by any omission or defect in the Work, including without limitation, any damage to other improvements or facilities. In the event that the Contractor should fail to timely make repairs, adjustments, or other remedy that may be made necessary by such defects, the County may do so, and charge the Contractor the cost thereby incurred.
- E. All warranties and guaranties shall extend for the greatest of one (1) full year commencing on the dates of Substantial Completion of the Project or such longer period of time as is required by the Contract. The one (1) year period shall be extended with respect to portions of the Work first performed after Substantial Completion for a period of one (1) year after the actual performance of the Work. If any defect or deviation should exist, develop, be discovered or appear within such one (1) year period, the Contractor, at it sole cost and expense and immediately upon demand, shall fully and completely repair, correct, and eliminate such defect. The foregoing warranties and guarantees are cumulative of

and in addition to, and not restrictive of or in lieu of, any and all other warranties and guarantees provided for or required by law. No one or more of the warranties contained herein shall be deemed to alter or limit any other. The Performance Bond shall remain in full force and effect throughout the applicable guarantee period set forth in this paragraph.

- F. Neither the final payment nor any provision of the Contract, nor partial or entire occupancy or use of the Work by the County, shall constitute an acceptance of any part of the Work that is not in accordance with the Contract or relieve the Contractor of liability for incomplete or faulty materials or workmanship.
- G. All manufacturer warranties and guarantees shall be delivered to the County prior to Substantial Completion and such delivery shall be a condition precedent to the issuance of the Certificate of Substantial Completion. Before final payment, the Contractor shall assign and transfer to the County all guarantees, warranties and agreements from all contractors, Subcontractors, vendors, Suppliers, or manufacturers regarding their performance, quality of workmanship or quality of materials supplied in connection with the Work. The Contractor represents and warrants that all such guarantees, warranties and agreements will be freely assignable to the County, and that upon final completion of the Work, all such guarantees, warranties and agreements shall be in place and enforceable by the County in accordance with their terms. Contractor's obligations pursuant to this General Requirement shall survive any acceptance of Work, or termination or expiration of this Contract.

GR-11. CONTRACTOR'S PERSONNEL AND INDEPENDENT CONTRACTOR STATUS

- A. The Contractor will supervise and direct the Work, including the Work of all Subcontractors. Contractor will be solely responsible for the means, methods, techniques, sequences, and procedures of construction. An experienced Superintendent and necessary assistants competent to supervise the particular types of work involved shall be assigned to the Project by the Contractor, and shall be available at all times when work is in progress. The name of the Superintendent shall be submitted with qualifications of same prior to the start of the Work. If approved by the County, the Superintendent so named by the Contractor shall be employed by the Contractor and shall have served in a supervisory capacity on at least one Project of like description and size performed by the Contractor during the previous twelve months. Under no circumstances shall an employee of any Subcontractor serve as the Superintendent, unless approved by the County prior to being named Superintendent. The Superintendent shall represent the Contractor, and all directions given to the Superintendent shall be as binding as if given to the Contractor. Important communications shall be confirmed in writing. Other communications shall be similarly confirmed on written request in each case.

- B. The Contractor shall not change key members of its staff without the prior consent of the County, unless such staff members prove to be unsatisfactory to the Contractor and cease to be in its employ. If the Contractor intends to change a key staff member (defined as certain full-time personnel stationed at the site including Project Manager, Superintendent, Project Engineer, Assistant Project Manager, Assistant Superintendent, or Assistant Project Engineer) it shall give the County written notice at least fifteen (15) days prior to the intended change. The written notice shall include a description of qualifications for the new proposed key staff member. The County shall have the right to approve or disapprove the proposed key staff member.
- C. Only persons skilled in the type of work which they are to perform shall be employed. The Contractor shall, at all times, maintain discipline and good order among his employees, and shall not employ any unfit person or persons or anyone unskilled in the work assigned him.
- D. The relationship between the County and the Contractor shall be that of owner and independent contractor. Other than the consideration set forth herein, the Contractor, its officers, agents, servants, employees, and any Subcontractors shall not be entitled to any County employee benefits including, but not limited to social security, insurance, paid annual leave, sick leave, worker's compensation, free parking or retirement benefits. All services provided by Contractor shall be by employees of Contractor or its Subcontractors and subject to supervision by Contractor. No officer or employee of Contractor or any Subcontractor shall be deemed an officer or employee of the County. Personnel policies, tax responsibilities, social security payments, health insurance, employee benefits and other administrative policies, procedures or requirements applicable to the Work or services rendered under this Contract shall be those of the Contractor, not the County.

GR-12. SUBCONTRACTING

- A. The Contractor understands and agrees that it shall be a breach of this Contract to subcontract any portion of the Work on this Project unless
1. The Work and the Subcontractor proposed to perform it have been declared in the Bid to the Contract; or
 2. The Contractor shall have obtained advance written approval from the County.
- B. The Contractor further understands and agrees that any work on this Project, which the Contractor secures in violation of this General Requirement, shall be deemed a donation from the Contractor for which the County shall not be

obligated to pay. Nothing contained in this Contract shall create any contractual relation between any Subcontractor and the County. Upon request, Contractor shall provide the County with copies of each of its contract(s) and amendments with each Subcontractor.

- C. Nothing contained in this Contract shall create, nor be interpreted to create privity, or any other relationship whatsoever, between the County and any person, or entity or than Contractor.

GR-13. ASSIGNMENTS

The Contractor agrees it shall not sublet, assign, transfer, pledge, convey, sell, or otherwise dispose of the whole or any part of this Contract or his right, title, or interest therein to any person, firm, or corporation without the previous written consent of the County. If the County consents to any such assignment or transfer, then the Contractor binds itself, its partners, successors and assigns to all covenants of this Contract.

GR-14. INDEMNIFICATION AND HOLD HARMLESS

- A. The Contractor shall be responsible from the execution date or from the time of the beginning of the Work, whichever shall be the earlier, for all injury or damage of any kind resulting from the Work, to persons or property, including employees and property of the County. The Contractor shall exonerate, indemnify, and save harmless the County, its elected officials, officers, employees, agents and servants, hereinafter collectively referred to in this General Requirement as “the County Indemnites,” from and against all claims or actions based upon or arising out of any damage or injury (including without limitation any injury or death to persons and any damage to property) caused by or sustained in connection with the performance of this Contract or by conditions created thereby or arising out of or any way connected with Work performed under this Contract, as well as all expenses incidental to the defense of any such claims, litigation, and actions. Furthermore, Contractor shall assume and pay for, without cost to the County Indemnites, the defense of any and all claims, litigation, and actions suffered through any act or omission of the Contractor, or any Subcontractor, or anyone directly or indirectly employed by or under the supervision of any of them. Notwithstanding any language or provision in this Contract, Contractor shall not be required to indemnify any County Indemnitee against claims, actions, or expenses based upon or arising out of the County Indemnitee’s sole negligence.
- B. As between the County Indemnites and the Contractor as the other party, the Contractor shall assume responsibility and liability for any damage, loss, or injury, including death, of any kind or nature whatever to person or property, resulting from any kind of claim made by Contractor’s employees, agents, vendors, Suppliers or Subcontractors caused by or resulting from the performance of Work under this Contract, or caused by or resulting from any error, omission, or the negligent or intentional act of the Contractor, vendors, Suppliers, or

Subcontractors, or any of their officers, agents, servants, or employees. The Contractor shall defend, indemnify, and hold harmless the County Indemnitees from and against any and all claims, loss, damage, charge, or expense to which they or any of them may be put or subjected by reason of any such damage, loss, or injury.

- C. The Contractor expressly agrees to provide a full and complete defense against any claims brought or actions filed against the County Indemnitees, where such claim or action involves, in whole or in part, the subject of the indemnity contained in this Contract, whether such claims or actions are rightfully or wrongfully brought or filed. The County has the sole discretion to choose the counsel who will provide the defense.
- D. No provision of this Contract and nothing herein shall be construed as creating any individual or personal liability on the part of any elected official, officer, employee, agent or servant of the County, nor shall the Contract be construed as giving any rights or benefits hereunder to anyone other than the parties to this Contract.
- E. The parties agree that Contractor shall be liable for all fines or civil penalties, which may be imposed by any local, federal or state department or regulatory agency that are a result of Contractor's performance of the Work under this Contract. Contractor shall pay the costs of contesting any such fines. The parties' obligations pursuant to this General Requirement shall survive any acceptance of Work, or termination or expiration of this Contract.

GR-15. ROYALTIES AND PATENTS

The Contractor shall hold and save the County and its elected officials, officers, agents, servants, and employees harmless from liability of any nature or kind, including cost and expenses for, or on account of, any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the County, unless otherwise specifically stipulated in the Contract.

GR-16. LAWS AND REGULATIONS

- A. The Contractor's attention is directed to the fact that all applicable federal, state, and County laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full. The Contractor shall keep itself and its employees and Subcontractors fully informed of all laws, ordinances, and regulations in any manner affecting those engaged or employed in the Work or the materials used in the Work or in any way affecting the conduct of the Work and of all orders and decrees of bodies or tribunals having any jurisdiction or

authority over same. If Contractor discovers any discrepancy or inconsistency in this Contract or in the Drawings or Specifications in relation to any such law, regulation, ordinance, order, or decree, Contractor shall promptly report the same, in writing, to the County. Contractor shall at all times observe and comply with all such laws, ordinances, and regulations, and shall protect and indemnify the County and its agents against any all damages and claims arising out of any violation of such law, ordinance, regulation, order, or decree, whether by Contractor or its employees or Subcontractors.

- B. Contractor shall not discriminate against any person in its operations, activities or performance of Work under this Contract. Contractor shall affirmatively comply with all applicable provisions of federal, state and local equal employment laws and shall not engage in or commit any discriminatory practice against any person based on race, age, religion, color, gender, national origin, physical or mental disability, or political affiliation. Contractor shall maintain a Drug Free Workplace.

GR-17. PERMITS AND INSPECTION FEES

- A. Permits shall be secured by the Contractor, and inspections will be required, but the County will not charge the Contractor for permits and inspections obtained from the County. The Contractor shall secure and pay for any permits and inspection fees required by any other governmental entity or agency.
- B. Prior to execution of this Contract, Contractor shall provide the County with a copy of its current, valid business license. If Contractor is not a Georgia corporation, Contractor shall submit a certificate of authority to transact business in the state of Georgia and a copy of their valid business license issued by their home jurisdiction. Contractor shall provide the County with copies of all other required licenses, certifications and permits for the Contractor and/or all of Contractor's employees, personnel, agents or Subcontractors performing services that require licensure by the federal government, the State of Georgia, or the County. Contractor hereby warrants and represents that at all times during the Contract Term it shall maintain in good standing all required licenses, certifications, and permits required under federal, state and local laws necessary to perform the services required by this Contract.

GR-18. LAND AND RIGHTS-OF-WAY

Prior to entering on any land or right-of-way, the Contractor shall ascertain the requirements of applicable permits or easements obtained by the County, and shall conduct his work in accordance with requirements thereof, including the giving of notice. The Contractor shall be fully responsible for performing work to the requirements of any permit or easement granting entity, even though such requirements may exceed or be more stringent than that

otherwise required by the Contract, and shall compensate the County fully for any loss or expense arising from failure of the Contractor to perform as required by such entity. The Contractor shall provide, at its own expense without liability to the County, any additional land and access thereto that the Contractor may desire for temporary construction facilities, or for storage of materials.

GR-19. PROTECTION OF WORK, PROPERTY, AND PERSONS

- A. The Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Project and other persons who may be affected thereby, all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, lakes, drainage ways, walks, pavements, roadways, structures, and utilities not designated for removal, relocation or replacement in the course of construction.
- B. The Contractor shall erect and maintain, as required by the conditions and progress of the Work, all necessary warning safeguards for devices and the safety and protection of the Work, the public and adjoining property.
- C. If existing utilities or structures are indicated by the Contract, no warranty is made as to the accuracy or completeness of such indication or the information provided regarding such utilities or structures. The Contractor shall comply with all applicable state law concerning the marking and location of existing utilities. The Contractor shall, prior to commencing other on-site work, accurately locate above and below ground utilities and structures, which may be affected by the Work, using whatever means may be appropriate, and shall verify the nature and condition of such utilities and structures. The Contractor shall mark the location of existing utilities and structures, if they are not otherwise readily visible, with flagging, stakes, barricades, or other suitable means, and shall preserve and protect all utilities and structures not designated for removal, relocation, or replacement in the course of construction. Contractor shall notify the County promptly of discovery of any conflict between the Contract and any existing facility.
- D. All existing utilities, both public and private, including but not limited to, sewer, gas, water, electrical, and telephone services, shall be protected and their operation shall be maintained through the course of the Work. Any temporary shutdown of an existing service shall be arranged between the Contractor and the responsible agency. The Contractor shall assume full responsibility and hold the County harmless from the result of any damage that may occur as a result of the Contractor's activities in this regard.

- E. In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, or unanticipated conditions where delay would substantially impact the time or cost of work, the Contractor, upon notification to the County, shall act to prevent threatened damage, injury, or loss. Any claim for compensation or extension of time by the Contractor due to such extra work shall be submitted to the County within ten (10) days of the date of performing such work or deviations in the manner prescribed for a Change Order.

GR-20. PROHIBITED INTERESTS

No official of the County who is authorized in such capacity and on behalf of the County to negotiate, make, accept, or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspection, construction, or material supply contract, or any subcontract in connection with the construction of the Project, shall become directly or indirectly interested personally in this Contract or in any part hereof. No officer, employee, architect, attorney, engineer, or inspector of or for the County who is authorized in such capacity and on behalf of the County to exercise any legislative, executive, supervisory, or other similar functions in connection with the construction of the Project, shall become directly or indirectly interested personally in this Contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the Project.

GR-21. FIRST SOURCE JOBS ORDINANCE

The Contractor is required to comply with the DeKalb County First Source Jobs Ordinance, Code of DeKalb County as Revised 1988, section 2-231 *et seq.*, and among other things, is required to make a good faith effort to hire DeKalb County residents for at least fifty percent 50% of all jobs created by an Eligible Project, as that term is defined in the First Source Ordinance, using the First Source Registry.

GR-22. FOREIGN CORPORATIONS

In the event the Contractor is a foreign corporation, partnership, or sole proprietorship, the Contractor hereby irrevocably appoints the Georgia Secretary of State as its agent for service of all legal process for the purposes of this Contract only.

GR-23. SPECIFICATIONS AND DRAWINGS

- A. The Specifications, the Drawings and the Contract shall be supplementary to each other, and any material, workmanship, and/or service which may be in one, but not called for in the others, shall be as binding as if indicated, called for, or implied by all.

- B. Each section or type of work is described separately in the Technical Specifications; however, should any item of material, equipment, work, or combinations of such be required in one section, and not be described in that section and a similar item described in another section, that description shall apply regardless of the section under which it is described.
- C. Any discrepancies found between the Drawings and Specifications and site conditions, or any inconsistencies or ambiguities in the Drawings or Specifications shall be immediately reported to the County, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after his discovery of such discrepancies, inconsistencies, or ambiguities shall be done at the Contractor's risk.
- D. Upon award of the Contract, the Contractor will be supplied, free of charge, up to three complete sets of the Contract Drawings and Specifications. Any prints and Specifications in excess of these shall be furnished at cost at the Contractor's expense.
- E. The Contractor shall furnish, with reasonable promptness, all samples as directed by the County for approval for conformance with the design concept of the Project and for compliance with the information stated in the Contract. The Work shall be in accordance with approved samples.
- F. The County may, without changing the scope of the Work, furnish the Contractor additional instructions and detail drawings, as necessary to carry out the Work required by the Contract. The additional drawings and instructions thus supplied will become a part of the Contract. The Contractor shall carry out the Work in accordance with the additional detail drawings and instructions.
- G. Attention is directed to the fact that the detailed Specifications and separate sections may be written in short or abridged form. In regard to every section of the Specifications and all parts thereof, mentioned therein, or indications on the Drawings of articles, materials, operations, or methods, requires that the Contractor:
- (1) Provide each item mentioned and indicated of a quality or subject to qualifications noted;
 - (2). Perform according to conditions stated, each operation prescribed; and
 - (3) Provide therefore all necessary labor, equipment, and incidentals.
- H. For convenience of reference and to facilitate the letting of contracts and subcontracts, these Specifications are separated into titled sections. Such separation shall not, however, operate to make the County an arbiter to establish limits for the contracts between the Contractor and Subcontractors.

- I. Notwithstanding the appearance of such language in the various sections of the Specifications as, “The Paving Contractor,” “The Grading Contractor,” etc., the Contractor is responsible to the County for the entire Contract and the execution of all Work referred to in the Contract.

GR-24. CONTRACTOR’S SUBMITTALS

- A. The Contractor shall submit all Submittals to the official or employee so designated by the chief executive officer all Submittals as required under the Specifications and in such time and manner that will allow at least ten (10) days for the County’s review, pursuant to the Construction Schedule. No portion of the Work shall commence until all Submittals relating to such portion have been approved by the County.
- B. The approved Drawings will be supplemented by such shop drawings as are needed to adequately control the Work. Shop Drawings, product data, samples and other Submittals are not parts of the Contract. The purpose of their submittal is to demonstrate for those portions of the Work for which Submittals are required by the Contract, the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract. Informational Submittals, upon which a County employee, the Architect or Engineer, if retained by the County in connection with the Project, is not expected to take responsive action, may be so identified in the Contract. Submittals which are not required by the Contract may be returned by the County without action. The approval of a Submittal shall not authorize any deviation from or alteration of the Drawings or Specifications absent a Change Order or Field Order.
- C. Shop drawings to be furnished by the Contractor for any structure shall consist of such detailed drawings as may be required for the execution of the Work.
- D. Drawings for false work, centering, and form work may also be required per the Specifications and in such cases shall be likewise subjected to approval unless approval is waived.
- E. The County’s review will be within reasonable promptness as to cause no delay in the Work. Approval of the Contractor’s Submittals does not relieve the Contractor of any responsibility for accuracy of dimensions and details or from otherwise ensuring that the Work complies with the requirements of the Contract. It is mutually agreed that the Contractor shall be responsible for agreement and conformity of Submittals with the Drawings and Specifications. The County will review and approve or take other appropriate action upon the Contractor's Submittals such as shop drawings, product data and samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract. Review of submittals is not conducted for the purpose of determining the accuracy and completeness of details such as dimensions and quantities, or for substantiating instructions for installation or

performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract. The County's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences or procedures. The County's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

- D. It is the responsibility of the Contractor to check all Submittals before same are submitted to the County for approval. Submittals which have not been checked and approved by the Contractor will not be reviewed by the County.
- E. Submittals shall be submitted only by the Contractor who shall indicate by a signed stamp on the drawings that he has checked the Submittals and that the work shown on them is in accordance with Contract requirements and has been checked for dimensions and relationship with work of all other trades involved. Under no conditions shall Submittals be accepted from anyone other than the Contractor.
- F. The Contractor shall furnish the County with at least six copies of all Submittals for approval. Two finally approved copies will be returned to the Contractor for his use. The Contract Price shall include the cost of furnishing all Submittals and the Contractor will be allowed no extra compensation for such drawings.
- G. The approval of such Submittals shall not relieve the Contractor from responsibility for deviations from Drawings or the Specifications unless he has in writing called attention to such deviations, and the County has approved the changes or deviations in writing at the time of submission, nor shall it relieve him from the responsibility for errors of any kind in Submittals. When the Contractor does call such deviations to the attention of the County, he shall state in writing whether or not such deviations involve any extra cost. If this is not mentioned, it will be assumed that no extra cost is involved for making the change.
- H. The Contractor shall prepare and maintain a log of all Submittals which includes, at a minimum, the submittal number, revision number, description, responsible company, proposed submittal date, date actually submitted, date approved, any comments received, approval status, and resubmittal information. The log shall be updated at least on a monthly basis and made available to the County for review upon request.

GR-25. AS-BUILT DRAWINGS

The Contractor shall maintain a red-lined set of drawings on site during the progress of the Work, indicating any Field Orders, Change Orders and the location of the portion of the Work or equipment actually installed. The Contractor shall, upon completion of the Work, furnish a marked set of reproducible drawings indicating any field changes and the location of Work as actually installed, if different from the requirements of the Contract, and deliver them to

the County in hard copy as well as an electronic copy compatible with the County's software and hardware system.

GR-26. EXAMINATION OF WORK BY CONTRACTOR

It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and location of the Work, the configuration of the ground, the character, quality, and quantity of the facilities needed preliminary to and during the prosecution of the Work, the general and local conditions, and all other matters which can in any way affect the Work or the cost thereof under this Contract.

GR-27. INSPECTION AND TESTING OF MATERIALS

Unless otherwise specifically provided for, the inspection and testing of materials and finished articles to be incorporated in the Work as required by the Specifications shall be made by the County, or bureaus, laboratories, or agencies selected by the County. The cost of such inspection and testing shall be paid by the Contractor unless County agrees to pay the cost. Materials and finished articles shall have passed the required tests prior to the incorporation of such materials and finished articles in the Work. The County may require, and the Contractor shall furnish if required to do so, certificates from manufacturers to the effect that the products or materials furnished by them for use in the Work comply with the applicable specified requirements for the materials or products being furnished.

GR-28. INSPECTION OF WORK

- A. The Contractor shall, at all times, permit and facilitate inspection of the Work by authorized representatives of the County and public authorities having jurisdiction in connection with the Work of this Contract. The presence or observations of the County or its representative at the site of the Work shall not be construed to, in any manner, to relieve the Contractor of its responsibility for strict compliance with the provisions of the Contract.

- B. If the Drawings, Specifications, County's instructions, laws, ordinances, or a public authority require any work to be specially tested or approved, the Contractor shall give the County timely notice of its readiness for observation or inspection. If the inspection is by another authority, then the County shall be advised of the date fixed for such inspection. Required certificates of inspection shall be secured by the Contractor. Contractor, having secured all certificates of inspection, will deliver same to the County upon completion. If any Work should be covered up without approval or consent of the County, it shall, if required by the County, be uncovered for examination at the Contractor's expense. The recovering of such Work after inspection shall be at Contractor's expense.

- C. Should any disagreement or difference arise as to the estimate, quantities, or classifications or as to the meaning of the Drawings or Specifications, or any point concerning the character, acceptability, and nature of the several kinds of

work, any materials and construction thereof, the decisions of the County shall be final and conclusive and binding upon all parties to the Contract.

- D. If the County determines that portions of the Work require additional testing, inspection or approval beyond the requirements of the Specifications, the County will instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the County, and the Contractor shall give timely notice to the County of when and where tests and inspections are to be made so that the County may be present for such procedures. Such costs, except as provided below, shall be at the County's expense.
- E. If such procedures for testing or inspection reveal failure of the portions of the Work to comply with requirements established by the Contract, all costs made necessary by such failure including those of repeated procedures shall be at the Contractor's expense.
- F. Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract, be secured by the Contractor and promptly delivered to the County or the Architect if one is retained by the County in connection with the Project. Tests or inspections conducted, pursuant to the Contract, shall be made promptly to avoid unreasonable delay in the Work.

GR-29. REQUESTS FOR SUBSTITUTIONS

- A. Requests for substitutions of proprietary products or of a particular manufacturer, vendor, or Subcontractor must be accompanied by the following documentation:
 - (1) Full explanation of the proposed substitution and submittal of all supporting data including technical information, catalog cuts, warranties, test results, installation instructions, operating procedures, and other like information necessary for a complete evaluation of the substitution;
 - (2) Reasons the substitution is advantageous or necessary, including benefits to the County and the Work in the event the substitution is acceptable;
 - (3) The adjustment, if any, in the Contract Price, in the event the substitution is acceptable;
 - (4) The adjustment, if any, in the Contract Term or Time and the construction schedule in the event the substitution is acceptable;
 - (5) An affidavit stating that (1) the proposed substitution conforms and meets all the requirements of the pertinent Specifications and the requirements shown on the Drawings and (2) the Contractor accepts the warranty and correction obligations in connection with the proposed substitution as if originally specified;

- (6) Proposals for substitutions must be submitted in triplicate to the County in sufficient time to allow the County no less than ten (10) working days for review; and
 - (7) No substitutions will be considered or allowed without the Contractor's submittal of complete substantiating data and information as stated hereinbefore.
- B. Substitutions and alternates may be rejected at the County's discretion without explanation and will be considered only under one or more of the following conditions:
- (1) Required for compliance with interpretation of code requirements or insurance regulations then existing;
 - (2) Unavailability of specified products, through no fault of the Contractor; or
 - (3) Subsequent information discloses inability of specified products to perform properly or to fit in designated space;
 - (4) Manufacturer/fabricator refuses to certify or guarantee performance of specified product as required; and
 - (5) When in judgment of the County, that a substitution would be substantially to the County's best interests, in terms of costs, time, or other considerations.
- C. Whether or not any proposed substitution is accepted by the County, the Contractor must reimburse the County for any fees charged by the Architect or other consultants for evaluating each proposed substitute. By making requests for substitutions based on the above, the Contractor:
- (1) Represents and warrants that the Contractor has personally investigated the proposed substitute product or Subcontractor and determined that it is equal or superior in all respects to the product or Subcontractor previously specified;
 - (2) Represents and warrants that the Contractor will provide the same warranty for the substituted product or for the workmanship of the substituted Subcontractor, as applicable, that the Contractor would have provided for the product or Subcontractor previously specified;
 - (3) Certifies that the cost data presented, in the form of certified quotations from Suppliers of both specified and proposed equipment is complete and includes all related costs under this Contract, but excludes costs under

separate contracts, and waives all claims for additional costs related to the substitution which subsequently become apparent; and

- (4) Agrees that the Contractor will coordinate the installation of the accepted substitution, making such changes as may be required for the Work to be complete and in accordance with the Contract in all respects.
- D. Contractor shall not propose an item for substitution unless it is equal to or superior to the specified item or items in construction, efficiency, and utility. The opinion of the County as to the equality or superiority of the item shall be final, and no substitute material or article shall be purchased or installed without the County's written approval.
- E. In case of a difference in price, the County shall receive all benefits of the difference in cost involved in any substitution, when lower, and the Contract altered by Change Order to credit the County with any savings to be obtained. However, the County shall not be charged for any additional cost in the case of a price increase.

GR-30. REJECTIONS OF WORK AND MATERIALS

- A. All Work that is defective or deviates from the Drawings or Specifications will be rejected. All rejected Work shall be replaced immediately with other material, equipment, or work which conforms with the Drawings and Specifications at no additional cost to the County. If rejected Work is not removed within forty-eight hours from the date of letter of notification, the County shall have the right and authority to stop the Work immediately and/or to arrange for the removal of said rejected Work at the cost and expense of the Contractor.
- B. Inspection of the Work shall not relieve the Contractor of any of its obligations, and defective Work shall be made good regardless of whether it has been previously inspected by the County and accepted or estimated for payment. The failure of the County to reject or condemn improper materials or workmanship shall not be considered as a waiver of any defect that may be discovered later.

GR-31. MATERIALS, SERVICES, AND FACILITIES

- A. The Contractor shall at all times employ sufficient labor and equipment for executing the Work to full completion in the manner and time specified. Failure of the Contractor to provide adequate labor and equipment shall constitute a default of the Contract. The labor and equipment to be used in the Work by the Contractor shall be sufficient to meet the requirements of the Work and shall be such as to produce a satisfactory quality of work in accordance with accepted industry practices and within the Contract Time.

- B. Materials and equipment shall be so stored and handled as to insure the preservation of their quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection. No product which has in any way become unfit for the intended purpose shall be incorporated into the Work.
- C. Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, cleaned, and conditioned as directed by the manufacturer. Contractor shall promptly notify the County of any conflict between the instructions of any manufacturer and the requirements of the Drawings or the Specifications.
- D. Materials, supplies, and equipment to be incorporated into the Work shall be new and unused unless otherwise specifically stated in the Contract. The source of supply for all such products shall be submitted to the County, together with detailed descriptions thereof in the form of samples, shop drawings, tests, or other means necessary to adequately describe the items proposed. Approval by the County of a manufacturer or supplier shall not constitute the approval of materials, supplies, or equipment obtained from such manufacturer or supplier if they do not comply with the requirements of the Contract. If, after trial or installation, it is found that sources of supply, even though previously approved by the County, have not furnished products meeting the intent of the Contract, the Contractor shall thereafter furnish products from other approved sources, and shall remove completed Work incorporating products which do not meet Contract requirements.
- E. The Contractor shall confine operations to areas permitted by law, ordinances, permits and the Contract, and shall not unreasonably encumber the site with materials or equipment. The Contractor shall provide parking for all construction vehicles only within the construction limits as indicated on the drawings or make appropriate arrangements as permitted by law.
- F. Only materials and equipment which are to be used directly in the Work may be brought to and stored on the Project site by the Contractor. After equipment is no longer required for the Work, it must be promptly removed from the Project site. Protection of construction materials and equipment stored at the Project site from weather, theft, damage, and all other adversity is the sole responsibility of the Contractor.
- G. The Contractor and any entity for which the Contractor is responsible must not erect any sign on the Project site without the prior written consent of the County, which may be withheld in the sole discretion of the County.
- H. Contractor must ensure that the Work, at all times, is performed in a manner that affords reasonable access, both vehicular and pedestrian, and for emergency response to the site of the Work and all adjacent areas. The Work must be

performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the site of the Work are free from debris, building materials and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract, Contractor must use its best efforts to minimize any interference with the occupancy or beneficial use of any areas and buildings adjacent to the site of the Work, or the Project.

- I. Without prior approval of the County, the Contractor shall not permit any worker to use any existing facilities at the Project site, including, without limitation, lavatories, toilets, entrances, and parking areas other than those designated by the County for such use. Without limitation of any other provision of the Contract, the Contractor shall use its best efforts to comply with all rules and regulations promulgated by the County in connection with the use and occupancy of the Project site, as amended from time to time. The Contractor shall immediately notify the County in writing if during the performance of the Work, the Contractor finds compliance with any portion of such rules and regulations to be impracticable, setting forth the problems that may be caused by such compliance and suggesting alternatives through which the results intended by such portions of the rules and regulations can be achieved. The County may, in the County's sole discretion, adopt such suggestions, develop new alternatives or require compliance with the existing requirements of the rules and regulations. The Contractor shall also comply with all insurance requirements applicable to the use and occupancy of the Project site.
- J. Unless otherwise directed by the County, Contractor shall provide and maintain a suitable office on the site for its own use and for the use of representatives of the County. Contractor shall furnish sufficient heat, artificial light, ventilation and janitor's service, and shall also provide a table or desk, plan rack and chairs, all for the use of those visiting the job, in addition to such furnishings as he provides for his own use. If approved, temporary offices and other structures shall be located where approved by the County, and shall be removed from the premises upon completion of the Contract or earlier if so directed by the County.
- K. Contractor may be required by the County, at the beginning of Work, to provide, at the Project site, suitable and adequate temporary toilets and enclosure for use of workers on the job, shall maintain same in sanitary condition, and shall remove same at the completion of construction operations and/or when directed by the County. Contractor shall not allow any sanitary nuisances to be committed in or about the site and shall enforce sanitary regulations of local and state health authorities.
- L. The Contractor shall cooperate with the County in any required use of the property and arrange for storage of materials on the Project site in such areas as are mutually agreed upon. The Contractor shall allot suitable and proper space to its Subcontractors for the storing of their materials and for the erection of their sheds and tool houses. Should it be necessary at any time to move materials,

sheds, or storage platforms, the Contractor shall, at its own expense move same as and when directed by the County.

- M. Unless otherwise instructed by the County, the Contractor shall repair and return to original condition all buildings, streets, curbs, sidewalks, utilities or other facilities affected by the Contractor's performance of the Work. The County's decisions in matters relating to aesthetic effect shall be final if consistent with the intent of the Contract.

GR-32. UTILITIES DURING CONSTRUCTION

Contractor shall furnish all utilities and pay for all bills for utilities used during construction. Utilities shall include electric power, fuel of any sort used for heating, etc., telephone services, cable and internet, if necessary, and water. Contractor shall provide all temporary connections to utilities when not provided by the utility company or others at no additional cost to the County. Contractor shall, if required by the County, install and maintain at his own expense, a job telephone and communications equipment necessary for the execution of the Work for the Contract Time.

GR-33. TEMPORARY HEAT AND AIR CONDITIONING

The Contractor shall provide, at his own expense, temporary heat or air conditioning, as necessary, to protect all Work and materials against injury from heat, dampness or cold. Fuel, equipment and method of heating and cooling shall be satisfactory to the County and shall not present a fire hazard. Contractor shall comply with the requirements in the Specifications for specific temperatures to be maintained.

GR-34. MAINTENANCE MANUAL

Contractor shall, prior to completion of Contract, deliver to the County two (2) copies of a manual, assembled, indexed, and bound, for the County's guidance, full details for care and maintenance of visible surfaces and of equipment included in Contract. Contractor shall, for this manual, obtain from Subcontractors literature of manufacturers relating to equipment, including motors; also furnish cuts, wiring diagrams, instruction sheets and other information pertaining to same that will be useful to the County in over-all operation and maintenance. Where the above-described manuals and data are called for under separate sections of the Specifications, they are to be included in the manual described in this General Requirement.

GR-35. WEATHER CONDITIONS

The Contractor will be required to protect all work and materials against damage or injury from the weather. If, in the opinion of the County, any work or materials shall have been damaged or injured by reason of failure to protect such, all such materials or work shall be removed and replaced at the expense of the Contractor.

GR-36. LINES, GRADES, AND MEASUREMENTS

- A. Such stakes and markings as the County may set for either its or the Contractor's guidance shall be preserved by the Contractor. Failure to protect such stakes or markings may, at the County's discretion, shall result in the Contractor being charged for their replacement.
- B. The Contractor must exercise proper care and caution to verify the grades and figures furnished by or on behalf of the County before proceeding with the Work, and shall be responsible for any damage or defective work caused by its failure to exercise such care and caution. Contractor shall promptly notify the County of any errors or discrepancies it may discover in order that the proper corrections may be made.
- C. Before ordering materials or doing work, the Contractor shall measure and verify the dimensions and locations of all existing structures, substrata, and features that affect the Work and shall be responsible for the correctness of same. No consideration will be given any claim based on the differences between the actual dimensions and those indicated on the Drawings. Contractor shall promptly notify the County of any difference which may be found, and shall obtain direction from the County before proceeding with the affected Work.

GR-37. CLEANING UP

- A. The Contractor shall at all times, keep the premises free from accumulation of waste materials or rubbish caused by Contractor's employees or work. Upon completion of the Work, the Contractor shall remove all his plants, tools, materials, and other articles from the property of the County.
- B. If the Contractor fails to clean up, as provided in the Contract, the County may do so, and the cost thereof shall be charged to the Contractor. Contractor shall ensure that neither it, its Subcontractors, nor their employees or agents bring any hazardous materials or other materials/waste regulated by state, federal or local law, which are not commonly used in the construction process or which are not listed in any Specifications for the Project onto the Project site without first obtaining the County's advance written approval. Contractor agrees to ensure that any hazardous materials/waste or other materials/waste regulated by state, federal or local law that Contractor, its Subcontractors or their employees or agents, bring onto or generate at the Project Site are handled in accordance with all applicable laws.
- C. The Contractor shall pay all required material disposal fees and shall dispose of all materials in accordance with all applicable laws and regulations. The Contractor shall be responsible for all costs associated with improper disposal of materials, including any clean-up costs, fines or penalties, whether levied against the Contractor or the County.

- D. In addition to removing rubbish on a periodic basis and leaving the building broom clean, the Contractor shall clean all tile and glass; replace broken glass; remove stains, paint spots, and dirt from all Work; clean and polish all plumbing fixtures and equipment; and remove all temporary protection items. To the maximum extent reasonably possible, the Contractor shall keep the interior of the building free of combustible materials as the Work progresses.
- E. The Contractor shall maintain and keep clean at all times the immediate approach to the Project site, including the roads abutting the Project site.

GR-38. BARRICADES

- A. Contractor shall provide barricades and protective barriers around excavations, so that the public is adequately warned of such hazards. Lanterns shall remain lighted from sundown to sunrise and at all other times when the labor forces are not on the job site.
- B. Delivery of construction materials and equipment shall be only to locations approved by the County.

GR-39. NO THIRD-PARTY BENEFICIARY

Except as expressly and specifically set forth herein, this Contract shall not be deemed to provide any third-party with any remedy, claim, right of action, or other right.

GR-40. SEVERABILITY

If any provision of this Contract or the application thereof to any person or circumstance shall to any extent be held invalid, then the remainder of this Contract or the application of such provision to persons or circumstances, other than those as to which it is held invalid, shall not be affected thereby, and each provision of this Contract shall be valid and enforced to the fullest extent permitted by law.

GR-41. INTERPRETATION

The laws of the State of Georgia shall govern the construction of this Contract without regard for conflicts of laws. Should any provision of this Contract require judicial interpretation, it is agreed that the court interpreting or construing the same shall not apply a presumption that the terms hereof shall be more strictly construed against one party, by reason of the rule of construction, that a document is to be construed more strictly against the party who itself or through its agent prepared same; it being agreed that the agents of all parties have participated in the preparation hereof, and all parties have had an adequate opportunity to consult with legal counsel. In interpreting this Contract in its entirety, the printed provisions of this Contract, and any additions written or typed hereon, shall be given equal weight, and there shall be no

inference by operation of law or otherwise; that any provision of this Contract shall be construed against either party hereto.

GR-42. PRIOR CONTRACTS; CONFLICT IN DOCUMENTS

The Contractor may in no case claim a waiver of any specification requirements on the basis of previous approval of material or workmanship on other jobs of like nature or on the basis of what might be considered “standard” for material or workmanship in any particular location. The Contract for this Project shall govern the Work. If any portion of the Contract shall be in conflict with any other portion, the various documents comprising the Contract shall govern in the following order of precedence: Contract, Change Orders or modifications issued after execution of the Contract; the General Requirements of the Contract; the Specifications; the Drawings, as between schedules and information given on the Drawings, the schedules shall govern; as between figures given on Drawings and the scaled measurements, the figures shall govern; as between large-scale Drawings and small-scale Drawings, the larger scale shall govern; and detailed Drawings shall govern over general Drawings; and the Bid Document Package.

GR-43. ENTIRE AGREEMENT

This Contract constitutes the sole contract between the County and the Contractor. The terms, conditions, and requirements of this Contract may not be modified, except by Change Order or Field Order. No verbal agreement or conversation with any officer, agent, or employee of the County, either before or after the execution of the Contract, shall affect or modify any of the terms or obligations herein contained. No representations, oral or written, shall be binding on the parties unless expressly incorporated herein. No Change Order or Field Order shall be enforceable unless approved by official action of the County as provided by law or in this Contract.

GR-44. COUNTERPARTS

This Contract may be executed in several counterparts, each of which shall be deemed an original, and all such counterparts together shall constitute one and the same Contract.

GR-45. INTERPRETATION

The laws of the State of Georgia shall govern the construction of this Contract without regard for conflicts of laws. Should any provision of this Contract require judicial interpretation, it is agreed that the court interpreting or construing the same shall not apply a presumption that the terms hereof shall be more strictly construed against one party, by reason of the rule of construction, that a document is to be construed more strictly against the party who itself or through its agent prepared same; it being agreed that the agents of all parties have participated in the preparation hereof, and all parties have had an adequate opportunity to consult with legal counsel. In interpreting this Contract in its entirety, the printed provisions of this Contract, and any additions written or typed hereon, shall be given equal weight, and there shall be no inference by operation of law or otherwise; that any provision of this Contract shall be construed against either party hereto.

GR-46. VENUE

The courts of DeKalb County, Georgia shall have exclusive jurisdiction to try disputes arising under or by virtue of this Contract.

GR-47. RIGHT TO AUDIT

The County shall have the right to audit all books and records, including electronic records, relating or pertaining to this contract or agreement, including but not limited to all financial and performance related records, property, and equipment purchased in whole or in part with County funds and any documents or materials which support those records, kept under the control of the Contractor, including but not limited to those kept by the Contractor's employees, agents, assigns, successors and subcontractors. The County also has the right to communicate with Contractor's employees related to the audited records.

The Contractor shall maintain such books and records, together with such supporting or underlying documents and materials, for the duration of this contract and for seven (7) years after termination or expiration, including any and all renewals thereof. The books and records, together with supporting documents and materials shall be made available, upon request to the County or its designee, during normal business hours at the Contractor's office or place of business. In the event that no such location is available, then the books, records, and supporting documents shall be made available for audit at a time and location which is convenient for the County.

DRAFT SAMPLE

ATTACHMENT A-1

SUPPLEMENTARY CONDITIONS

DRAFT SAMPLE

SUPPLEMENTARY CONDITIONS

1 SCOPE

Furnish, erect, and maintain temporary facilities and perform temporary work required in the performance of this Contract, including those shown and specified.

2 USE OF TEMPORARY FACILITIES

Contractor may be required by the County to provide and maintain a suitable office on the site for his own use and for the use of representatives of the County.

3 MAINTENANCE AND REMOVAL

- A. Utilities and Furnishings: Contractor shall furnish sufficient heat, artificial light, ventilation and janitor's service, and shall also provide a table or desk, plan rack and chairs, all for the use of those visiting the job, in addition to such furnishings as he provides for his own use.

- B. Location and Removal: Temporary offices and other structures shall be located where approved by the County, and shall be removed from the premises upon completion of the Contract or earlier if so directed by the County. They shall remain the property of the Contractor.

4 FIELD OFFICES

Contractor and his Subcontractors shall provide such additional offices, storage shanties, tool sheds and other temporary buildings as required for their own use and those employed on the Work.

5 TOILET AND WASHING FACILITIES

- A. Toilet Building: Contractor may be required by the County, at the beginning of work, to provide on premises suitable and adequate temporary toilets and enclosure for use of workers on the job; maintain same in sanitary condition; remove same at completion of building operations and/or when directed.

- B. Sanitary Regulations: Do not allow any sanitary nuisances to be committed in or about work; enforce sanitary regulations of local and State Health Authorities.

6 UTILITIES DURING CONSTRUCTION

- A. Utilities: Contractor shall furnish all utilities and pay for all utility bills used during construction. Utilities shall include electric power or fuel of any sort used for heating, etc., and water.
- B. Connections to Utilities: Contractor shall provide all temporary connections to utilities when not provided by the utility company or others.

7 TELEPHONE

Contractor shall, if required by the County, install and maintain at his own expense, a job telephone for duration of the Contract.

8 TEMPORARY HEAT

The Contractor shall provide at his own expense temporary heat as necessary to protect all work and materials against injury from dampness and cold. Fuel, equipment and method of heating shall not present a fire hazard and shall be satisfactory to the County. See requirements in detail Specifications for temperatures to be maintained for application of work under the various trades.

ATTACHMENT B

Contractor Affidavit under O.C.G.A. §13-10-91

By executing this affidavit, the undersigned Contractor verifies its compliance with O.C.G.A. §13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of DEKALB COUNTY has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. §13-10-91. Furthermore, the undersigned Contractor will continue to use the federal work authorization program throughout the Contract Term and the undersigned Contractor will contract for the physical performance of services in satisfaction of such contract only with Subcontractors who present an affidavit to the Contractor with the information required by O.C.G.A. §13-10-91. Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

ITB No. 16-100790, Fair Oaks Road Water Main Replacement
Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, 20__ in _____ (city), _____ (state).

By: _____
Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

Subscribed and Sworn before me on this the _____ day of _____, 20 ____.

NOTARY PUBLIC
My Commission Expires:

ATTACHMENT C

Subcontractor Affidavit under O.C.G.A. § 13-10-91

By executing this affidavit, the undersigned Subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with _____(insert name of Contractor) on behalf of DEKALB COUNTY, GEORGIA has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned Subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the Subcontractor with the information required by O.C.G.A. § 13-10-91. Additionally, the undersigned Subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the Contractor within five business days of receipt. If the undersigned Subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned Subcontractor must forward, within five business days of receipt, a copy of the notice to the Contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Subcontractor

ITB No.16-100790, Fair Oaks Road Water Main Replacement

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, 20__ in _____(city), _____(state).

By: _____
Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

Subscribed and Sworn before me on this the
_____ day of _____, 20 ____.

NOTARY PUBLIC
My Commission Expires:

ATTACHMENT D

Sub-subcontractor Affidavit under O.C.G.A. § 13-10-91

By executing this affidavit, the undersigned sub-subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract for _____ (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract) and _____ (name of Contractor) on behalf of DEKALB COUNTY, GEORGIA has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned sub-subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned sub-subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the sub-subcontractor with the information required by O.C.G.A. § 13-10-91(b). The undersigned sub-subcontractor shall submit, at the time of such contract, this affidavit to _____ (name of Subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Additionally, the undersigned sub-subcontractor will forward notice of the receipt of any affidavit from a sub-subcontractor to _____ (name of Subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Sub-subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

_____ Federal Work Authorization User Identification Number

_____ Date of Authorization

_____ Name of Sub-subcontractor

ITB No. 16-100790, Fair Oaks Road Water Main Replacement

_____ Name of Project

_____ Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, 20__ in _____ (city), _____ (state).

By: _____

Signature of Authorized Officer or Agent

_____ Printed Name and Title of Authorized Officer or Agent

Subscribed and Sworn before me on this the _____ day of _____, 20 ____.

_____ NOTARY PUBLIC

My Commission Expires: _____

ATTACHMENT E
DEKALB COUNTY, GEORGIA
CERTIFICATE OF CORPORATE AUTHORITY
(Choose Applicable Certificate)

I, _____, certify that I am Secretary of the corporation named as Contractor herein, same being organized and incorporated to do business under the laws of the State of _____; that _____, who executed this Contract on behalf of the Contractor was, then and there, _____; and that said Contract was duly signed by said officer for and in behalf of said corporation, pursuant to the authority of its governing body and within the scope of its corporate powers.

I further certify that the names and addresses of the owners of all the outstanding stock of said corporation as of this date are as follows:

DRAFT SAMPLE

This _____ day of _____, 20____.

Secretary (Corporate Seal)

ATTACHMENT E

**DEKALB COUNTY, GEORGIA
CERTIFICATE OF AUTHORITY – JOINT VENTURE
(Separate Certificate to be submitted by each joint venture partner)**

I, _____, ⁽¹⁾ certify that

1. I am the _____ ⁽²⁾ of _____, ⁽³⁾ (hereinafter “Venturer”);
2. Venturer is a partner and participant in the joint venture named as Contractor in that certain Contract for Construction dated _____ with DeKalb County, issued pursuant to Invitation to Bid or Request for Proposal No. _____;
3. Venturer is organized and incorporated to do business under the laws of the State of _____;
4. _____, who executed this Contract on behalf of the Contractor was, then and there, _____; and
5. Said Contract was duly signed by said officer for and in behalf of said Venturer and the Contractor pursuant to the authority of the governing body of each and within the scope of its corporate powers.
6. I further certify that the names and addresses of the owners of all the outstanding stock or ownership interest in Venturer as of this date are as follows:

This _____ day of _____, 20____.

INSTRUCTIONS:

1. Name of secretary (if Venturer is a corporation), or Manager or CEO (if Venturer is a LLP) of Venturer.
2. Title of person executing Certification.
3. Name of joint venture partner.

MAKE COPIES OF THIS FORM AND SUBMIT A SEPARATE FORM FOR EACH JOINT VENTURE PARTNER.

ATTACHMENT F
(Consisting of 3 pages)
PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS that _____ [*Insert name of contractor*] (hereinafter called the “Principal”) and _____ [*Insert name of surety*] (hereinafter called the “Surety”), are held and firmly bound unto _____ County (hereinafter called the “County”) and their successors and assigns, in the penal sum of _____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves, their administrators, executors, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract with the County, awarded by the DeKalb County Governing Authority on _____, which is incorporated herein by reference in its entirety (hereinafter called the “Contract”), for the _____ [*insert Name of the Project*], more particularly described in the Contract (hereinafter called the “Project”); and

NOW, THEREFORE, the conditions of this obligation are as follows, that if the Principal shall fully and completely perform all the undertakings, covenants, terms, conditions, warranties, and guarantees contained in the Contract, including all change orders, modifications, amendments, changes, deletions, additions, and alterations thereto that may hereafter be made, then this obligation shall be void; otherwise, it shall remain in full force and effect.

Whenever the Principal shall be, and declared by the County to be, in default under the Contract, the Surety shall promptly remedy the default as follows:

1. Complete the Contract in accordance with the terms and conditions; or
2. Obtain a Bid or Bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Surety and the County of the lowest responsible bidder, arrange for a contract between such bidder and County and make available as the work progresses (even though there should be a default or succession of defaults under the Contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the penal sum set forth in the first paragraph hereof, as may be adjusted, and the Surety shall make available and pay to the County the funds required by this Paragraph prior to the payment of the County of the balance of the contract price, or any portion thereof. The term “balance of the contract price,” as used in this paragraph, shall mean the total amount payable by the County to the Contractor under the Contract, and any amendments thereto, less the amount paid by the County to the Contractor; or, at the option of the County; or

3. Allow County to complete the work and reimburse the County for all reasonable costs incurred in completing the work.

In addition to performing as required in the above paragraphs, the Surety shall indemnify and hold harmless the County from any and all losses, liability and damages, claims, judgments, liens, costs, and fees of every description, including reasonable attorney's fees, litigation costs and expert witness fees, which the County may incur, sustain, or suffer by reason of the failure or default on the part of the Principal in the performance of any or all of the terms, provisions, and requirements of the Contract, including any and all amendments and modifications thereto, or incurred by the County in making good any such failure to performance on the part of the Principal.

The Surety shall commence performance of its obligations and undertakings under this Bond promptly and without delay, after written notice from the County to the Surety.

The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and any other amendments in or about the Contract, and agrees that the obligations undertaken by this bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alterations, extensions of time, change in payment terms, and amendments.

The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment to the Contract, so as to bind the Principal and Surety to the full and faithful performance of the Contract as so amended or modified, and so as to increase the penal sum to the adjusted Contract Price of the Contract.

The Surety's obligations under this bond include all of the Contractor's duties under the Contract, including without limitation its maintenance and guarantee obligations.

No right of action shall accrue on this bond to or for the use of any person, entity, or corporation other than the County and any other obligee named herein, or their executors, administrators, successors or assigns.

This Bond is intended to comply with O.C.G.A. §36-91-70, and shall be interpreted so as to comply with the minimum requirements thereof. However, in the event the express language of this Bond extends protection to the County beyond that contemplated by O.C.G.A. §36-91-70, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the County, whether or not such protection is found in the applicable statutes.

If any one or more of the provisions of this Bond are determined to be illegal or unenforceable by a court of competent jurisdiction, all other provisions shall remain effective.

IN WITNESS WHEREOF the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this ____ day of _____, 20__.

PRINCIPAL

By: _____(SEAL)
Signature of Principal

Print Name and Title of Authorized Signer

Print Name of Principal Business

ATTEST:

Corporate Secretary

SURETY

By: _____(SEAL)
Signature of Surety (by Power of Attorney)

Print Name and Title of Authorized Signer

Print Name of Surety Business

WITNESS:

DRAFT SAMPLE

[Attach Original Power of Attorney]

ATTACHMENT G
(Consisting of 2 pages)
PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS that _____ [Insert name of contractor] (hereinafter called the “Principal”) and _____ [Insert name of surety] (hereinafter called the “Surety”), are held and firmly bound unto _____ County, (hereinafter called the “County”), its successors and assigns as obligee, in the penal sum of [Insert contract amount], lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves, their administrators, executors, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract with the County, awarded by the DeKalb County Governing Authority on _____ [insert date of award] which is incorporated herein by reference in its entirety (hereinafter called the “Contract”), for the construction of a project known as [insert name of project], as more particularly described in the Contract (hereinafter called the “Project”);

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall promptly make payment to all persons working on or supplying labor or materials under the Contract, and any amendments thereto, with regard to labor or materials furnished and used in the Project, and with regard to labor or materials furnished but not so used, then this obligation shall be void; but otherwise it shall remain in full force and effect.

4. A “Claimant” shall be defined herein as any Subcontractor, person, party, partnership, corporation or other entity furnishing labor, services, or materials used, or reasonably required for use, in the performance of the Contract, without regard to whether such labor, services, or materials were sold, leased, or rented, and without regard to whether such Claimant is or is not in privity of contract with the Principal or any Subcontractor performing work on the Project, including, but not limited to, the following labor, services, or materials: water, gas, power, light, heat, oil, gasoline, telephone service, or rental of equipment directly applicable to the Contract.
5. In the event a Claimant files a claim against the County, or the property of the County, and the Principal fails or refuses to satisfy or discharge it promptly, the Surety shall satisfy or discharge the claim promptly upon written notice from the County, either by bond or as otherwise provided in the Contract.
6. The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and any other amendments in or about the Contract and agrees that the obligations undertaken by this bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alternations, extensions of time, changes in payment terms, and amendments.
7. The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment or modification to the Contract, so as to bind the Principal and Surety, jointly and severally, to the full payment of any Claimant under the Contract, as amended or modified, provided only that the Surety shall not be liable for more than the penal sum of the Bond, as specified in the first paragraph hereof.

8. This Bond is made for the use and benefit of all persons, firms, and corporations who or which may furnish any materials or perform any labor for or on account of the construction to be performed or supplied under the Contract, and any amendments thereto, and they and each of them may sue hereon.
9. No action may be maintained on this Bond after one (1) year from the date the last services, labor, or materials were provided under the Contract by the Claimant prosecuting said action.
10. This Bond is intended to comply with O.C.G.A. §36-91-90, and shall be interpreted so as to comply with the minimum requirements thereof. However, in the event the express language of this Bond extends protection to the County beyond that contemplated by O.C.G.A. §36-91-90, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the County, whether or not such protection is found in the applicable statutes.

IN WITNESS WHEREOF, the Principal and Surety have hereunto affixed their corporate seals and caused this obligation to be signed by their duly authorized representatives this ____ day of _____, 20__.

PRINCIPAL

By: _____(SEAL)

Signature of Principal

Print Name and Title of Authorized Signer

Print Name of Principal Business

ATTEST:

Corporate Secretary

SURETY

By: _____(SEAL)

Signature of Surety (by Power of Attorney)

Print Name and Title of Authorized Signer

Print Name of Surety Business

WITNESS:

[Attach Original Power of Attorney]

ATTACHMENT H

Certificate of Insurance with Declarations Page(s)

DRAFT SAMPLE

ATTACHMENT I

Addenda Acknowledge

DRAFT SAMPLE

ATTACHMENT I

ADDENDA ACKNOWLEDGEMENT

ITB No. 16-100790
ADDENDUM NO. _____

ADDENDUM ACKNOWLEDGMENT

Date _____

The Above Addendum is hereby acknowledged:

(NAME OF BIDDER)

(Signature) _____ (Title)

DRAFT SAMPLE

ATTACHMENT J

Executive Order No. 2014-4 New Ethics Policy

DRAFT SAMPLE



Office of Interim Chief Executive Officer

DeKalb County, Georgia

Lee N. May
Interim CEO

Executive Order No. 2014-4 **New Ethics Policy**

WHEREAS, the citizens of DeKalb County, Georgia are entitled to have complete confidence and the highest degree of trust in their County government; and

WHEREAS, ethical conduct is a key ingredient to sustaining trust with DeKalb County, Georgia residents; and

WHEREAS, the Organizational Act and Code of DeKalb County include rules to ensure ethical conduct by officials and employees; and

WHEREAS, reminding employees of the existing ethical rules and management's need to monitor employee's compliance with those rules shall help to ensure that government conducts itself in an open, honest, and fair manner; and

WHEREAS, training employees annually of the existing ethical rules shall further help to ensure that government continues to conduct itself in an open, honest, and fair manner; and

WHEREAS, the Interim Chief Executive Officer of DeKalb County is charged with the responsibility of ensuring that the County employees serve the best interests of the public at all times; and

WHEREAS, the Interim Chief Executive Officer of DeKalb County believes it is in the best interests of the citizens of DeKalb County to prevent fraud and abuse of office in government;

NOW THEREFORE, I, Lee N. May, Interim Chief Executive Officer of DeKalb County, by virtue of the authority vested in me, do hereby issue the following Executive Order:

June 24, 2014

Section 1: Scope of this Order and Reminder of Existing Rules

This Executive Order applies to all merit-exempt and merit employees subject to the supervisory and administrative control of the Chief Executive Officer (hereinafter referred to as "CEO employees").¹ CEO employees shall adhere to all applicable ethical rules listed in Section 22A of the Organizational Act and the Code of DeKalb County. A copy of Section 22A and the relevant ethics provisions of the Code of DeKalb County referenced by this Executive Order are attached. Violations of these Rules shall not be tolerated.

CEO employees shall adhere to the ethical rules listed in Organizational Act, Section 22A, and the Code of DeKalb County applicable to them. All merit-exempt CEO employees shall comply with the Organizational Act, Section 22A, which includes, but is not limited to the Conflicts of Interest provisions in sections 22A(c)(1), (c)(5), (c)(6), and (e); the Gifts and Gratuities provisions governed by section 22A(c)(2)(a.); Disclosure of Confidential Information covered by section 22A(c)(3); and the Disclosure of Interests provisions of section 22A(d).

All CEO employees in departments under the merit system, as provided in Chapter 20 of the Code of DeKalb County shall comply with that chapter which includes, but is not limited to the ethics rules of Section 20-20, Conflicts of Interest and Section 20-20.1 regarding Financial Disclosure Reports.

Section 2: New Ethical Rules for CEO Merit-Exempt Employees

In addition to the existing ethical rules identified above, all CEO merit-exempt employees shall adhere to the following rules governing each specific area listed below. While Section 20-20 of the Code of DeKalb County contains specific monetary limits for merit employees, the Organizational Act does not contain such specific limits. These new rules are designed to impose specific monetary limits on merit-exempt employees. To the extent that any rule in this Executive Order conflicts with Section 22A of the Organizational Act or applicable provisions of the Code of DeKalb County, the Organizational Act and the applicable provisions of the Code of DeKalb County shall apply. To the extent any rule below is stricter than Section 22A of the Organizational Act and the applicable provisions of the Code of DeKalb County, the stricter rules below shall govern.

1. *Gifts*. A CEO merit-exempt employee may accept gifts² from an Interested Source³, having an aggregate market value of forty dollars (\$40.00) or less per Interested Source

¹This Executive Order cannot and does not apply to employees of the Board of Commissioners and deputies and employees of other elected officers of DeKalb County. This Executive Order does not apply to campaign contributions, donations and any activities a person conducts during the course of seeking nomination or election to any public office as those activities and campaign contributions and donations are regulated by applicable state and federal law.

² "Gift" includes any gratuity, favor, discount, entertainment, trip, hospitality, loan, forbearance or other item having monetary value. It includes services as well as gifts, of training, transportation, travel, lodging, meals, whether provided in-kind, by purchase of a ticket, payment in advance, or reimbursement after the expense has been incurred. A gift does not include: modest items of prepared food and refreshments such as soft drinks, or coffee or donuts other than as part of a meal; loans from banks or other financial institution on terms generally available to the public; social invitations from persons or entities other than Interested Sources.

per occasion, provided that the aggregate market value of individual gifts received from any single Interested Source shall not exceed one hundred twenty dollars (\$120.00) in a calendar year, except in the following circumstances, which are exceptions to this rule:

- a. *Meals.* CEO merit-exempt employees are allowed to accept reasonable meals and refreshments from an Interested Source furnished in connection with participation at a public, civic, charitable, or non-profit ceremony, event, convention, or conference.
- b. *Travel.* CEO merit-exempt employees may accept “reasonable hosting expenses” from Interested Sources for travel, meals, lodging, and conference fees provided in connection with (1) teaching, (2) a speaking engagement, (3) participation on a professional or civic panel, or (4) attendance at a conference in an official capacity. CEO merit-exempt employees may accept travel from other non-County sources for any official purpose, provided that they disclose the travel payments made or reimbursements received on a Travel Disclosure Report filed with either the Chief Integrity Officer, if created, or the Finance Director or his/her designee. CEO merit-exempt employees may accept travel reimbursements from a County contractor for training if it is part of the County’s contract or falls within the exception for gifts of travel to the County.
- c. *Tickets.* CEO merit-exempt employees may accept tickets to concerts, plays, athletic or other entertainment events from an Interested Source only when performing an official duty at the event.
- d. *Honoraria.* CEO merit-exempt employees may not accept personal honoraria from an Interested Source.
- e. *Awards, other exceptions.* CEO merit-exempt employees may accept awards, plaques, certificates, mementos, novelties, or similar items given in recognition of public service; nominal gifts from representatives of other governments; gifts from family members; and gifts accepted on behalf of the County.

Section 3: Chief Executive Officer

As Chief Executive Officer, I am governed by the ethical rules in the Organizational Act of DeKalb County. As such, those rules do not contain specific monetary limits on gifts, and I believe it is important that I set an example for the employees who are under my supervisory and administrative control. As a result, I am choosing to be governed by the ethical rules governing gifts stated in Section 2 of this Executive Order, and I will abide by the rules in Section 2 of this

³ “Interested Source” means any person or entity who: (a) is seeking official action by the employee or the employee's department; (b) does business or seeks to do business with the county or the employee's department; (c) conducts activities regulated by the employee or the employee's department; (d) has interests that may be substantially affected by performance or nonperformance of the employee's official duties; or (e) is an organization having a majority of its members as described in paragraphs (a) through (d).

Order, in addition to all other applicable provisions and exceptions of this Executive Order, and local and state ethical rules and law.

Section 4: Training

All CEO employees shall comply with these ethical rules and shall receive annual ethics training regarding these rules. Additionally, every CEO employee shall receive a copy of these ethical rules, shall be required to read the rules and sign a form acknowledging his/her obligation to comply with the ethical rules and the potential penalties for failing to do so. Those penalties may include civil action, criminal prosecution, and/or disciplinary action, up to and including termination of employment.

Section 5: Contractors and CEO-sponsored events

1. *Contractors.* To the extent that the Organizational Act, Section 22A, the Code of DeKalb County, and the rules in this Executive Order allow a gift, meal, travel expense, ticket or anything else of value to be purchased for a CEO employee by a contractor doing business with the County, the contractor must provide written disclosure, quarterly, of the exact nature and value of the purchase to either the Chief Integrity Officer, if created, or the Finance Director or his/her designee. Additionally, every contractor who conducts business with the County will receive a copy of these ethical rules at the time of execution of the contract.
2. *CEO-sponsored events.* No violation of Section 2 of this Executive Order has occurred for any solicited sponsorship⁴ from an Interested Source for official events, functions, luncheons, breakfasts, or meetings to honor employees, or further or discuss an official policy or other related County issue of concern to the Chief Executive Officer, so long as within 30 days of the event the Interested Source and/or the Chief Executive Officer discloses in writing to either the Chief Integrity Officer, if created, or the Finance Director or his/her designee, the exact nature and value of each solicited sponsorship. No solicited sponsorship(s) received from any single Interested Source shall exceed ten thousand dollars (\$10,000.00) in a calendar year.

Section 6: Support of the Ethics Board of DeKalb County

I am recommending a midyear budget adjustment to fund the creation of a full-time Chief Integrity Officer ("Integrity Officer"), investigator, and administrative assistant to serve the Ethics Board of DeKalb County ("Ethics Board"). If these additional positions are funded their exact duties will be determined by the Ethics Board. I recommend the Integrity Officer perform the following duties and functions:

1. Educating and training all County elected officials, employees and County officials to have an awareness and understanding of the mandate for and

⁴ A "solicited sponsorship" means a sponsorship that would not have been offered or given had the County employee or official not held the status, authority or duties associated with his/her County position.

- enforcement of ethical conduct and advising of the provisions of the code of ethics of the County;
2. Meeting with and supporting the Ethics Board as necessary;
 3. Advising County elected officials, employees and County officials regarding disclosure statements and reviewing same to ensure full and complete financial reporting;
 4. Urging compliance with the code of ethics by calling to the attention of the Ethics Board any failure to comply or any issues, including the furnishing of false or misleading information, that the Integrity Officer believes should be investigated by the Ethics Board of so that the Board may take such action as it deems appropriate;
 5. Monitoring, valuating and acting upon information obtained from an "ethics hotline" which shall be a County telephone number for the receipt of information about ethical violations. Each complaint, as of the time it is reported, whether by telephone or otherwise, shall be deemed to be a separate pending investigation of a complaint against a public officer or employee as provided by the Georgia Open Records Act;
 6. Notifying the subject of a report of any alleged violation of the ethics code, whether the report is anonymous, made by an identified individual or is written. Such notice shall be given in writing, by facsimile or hand delivery, to the subject of the complaint at the same time and in the same form that any disclosure of information is required by the Georgia Open Records Act;
 7. Notifying the Ethics Board of any report of an alleged violation of the ethics code received by the Integrity Officer;
 8. Reporting, as appropriate, suspected ethical violations to the Ethics Board;
 9. Reporting, as appropriate, suspected criminal violations to state or federal law enforcement agencies; and
 10. Filing with the Ethics Board, the Chief Executive Officer and the Board of Commissioners each January a written report describing the activities of the Integrity Officer in carrying out the goals of his or her office and the code of ethics and reporting on the ethical health of the County.

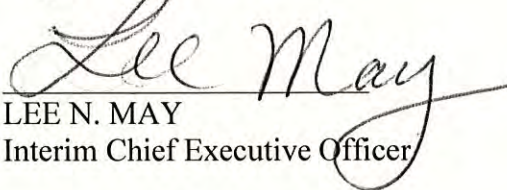
Section 7: Comprehensive and Updated Ethical Rules

While it is understood that amendment to the Code of Ethics in Section 22A of the Organizational Act requires action by the Georgia General Assembly, the newly instituted Government Operations Task Force also is reviewing the ethical standards for County employees and elected officials and will make recommendations for improved rules, if necessary. If and when such recommendations are received, the County Attorney and Executive Assistant are directed to consider such recommendations and to determine if the ethical rules governing DeKalb County need updating or revision. If revisions by the General Assembly are necessary, the County Attorney and Executive Assistant are directed to have such revisions ready to be included in the County's 2015 legislative package. If after such review, the ordinances of DeKalb County also need revision and updating, the Executive Assistant and County Attorney are directed to simultaneously submit such an ordinance to the Chief Executive Officer and each member of the Board of Commissioners for review and possible adoption.

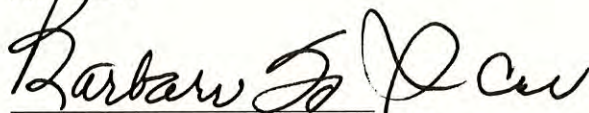
Section 8: Compliance and Effective Date

All CEO employees are hereby directed to comply with the terms of this Executive Order. This Executive Order shall take effect immediately upon signature and publication

SO ORDERED this 25th OF June, 2014.


LEE N. MAY
Interim Chief Executive Officer

ATTEST:



BARBARA H. SANDERS, CCC
Clerk to the Chief Executive Officer
and Board of Commissioners

This Executive Order shall remain in the custody of the County Clerk. Certified copies are available upon request.

ATTACHMENT K

General Liability Wrap-Up Manual

DRAFT SAMPLE

ATTACHMENT L

Other Required Attachments

DRAFT SAMPLE

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EXHIBIT 1.1

CONTRACTOR'S COST PROPOSAL

DRAFT SAMPLE

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(Contractor's Cost Proposal insert)

DRAFT SAMPLE

EXHIBIT 2

TECHNICAL SPECIFICATIONS

DRAFT SAMPLE

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

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TECHNICAL SPECIFICATIONS

01 33 00 Submittal Procedures

01 74 20 Miscellaneous Work and Clean up

02 00 00 GDOT Specifications

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02 41 10 Modifications to Existing Structures, Piping, and Equipment

03 11 00 Concrete Forming

31 10 00 Site Clearing

33 05 00 Common Work Results for Utilities

SPECIAL PROVISIONS

Legal Regulation & Responsibility to the Public (*if applicable*)

Traffic Control

Work Allowance (*if applicable*)

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Owner and Owner's Representative responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Owners and Owner's Representative responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
- C. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access files.
- D. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Owners and Owner's Representative and additional time for handling and reviewing submittals required by those corrections.
 - 1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
 - 2. Initial Submittal: Submit concurrently with startup construction schedule. Include submittals required during the first 60 days of construction. List those submittals

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

- required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
3. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
 4. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Owners and Owner's Representative final release or approval.
 - g. Scheduled date of fabrication.
 - h. Scheduled dates for purchasing.
 - i. Scheduled dates for installation.
 - j. Activity or event number.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will **not** be provided by Architect for Contractor's use in preparing submittals.
 1. Architect will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings **and Project record drawings**.
 - a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 - b. Digital Drawing Software Program: The Contract Drawings are available in AutoCAD 2016, LDD.
 - c. Contractor shall execute a data licensing agreement in the form of **Agreement form acceptable to Owner and Engineer**.
 - d. The following digital data files will be furnished for each appropriate discipline:
 - 1) Civil/Site
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Owners and Owner's Representative the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Owners Owner's Representative receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals. The Contractor shall submit all Submittals to the official or employee so designated by the chief executive officer all Submittals as required under the Specifications and in such time and manner that will allow at least 21 days for the County's review, pursuant to the Construction Schedule. No portion of the Work shall commence until all submittals relating to such portion have been approved by the County
 1. Initial Review: Allow 21 calendar days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Owners and Owner's Representative will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 21 calendar days for review of each resubmittal.
 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 calendar days for initial review of each submittal.
 5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 10 business days for review of each submittal. Submittal will be returned to Owners and Owner's Representative before being returned to Contractor.
- D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 2. Provide a space approximately **6 by 8 inches (150 by 200 mm)** on label or beside title block to record Contractor's review and approval markings and action taken by Owners and Owner's Representative.
 3. Include the following information for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of subcontractor.
 - g. Name of supplier.
 - h. Name of manufacturer.
 - i. Submittal number or other unique identifier, including revision identifier.

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

- 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
 - j. Number and title of appropriate Specification Section.
 - k. Drawing number and detail references, as appropriate.
 - l. Location(s) where product is to be installed, as appropriate.
 - m. Other necessary identification.
4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Owners and Owner's Representative observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
- a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Owners and Owner's Representative.
5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Owners and Owner's Representative will **return without review** submittals received from sources other than Contractor.
- a. Transmittal Form for Paper Submittals: Use **sample form included in Project Manual**.
 - b. Transmittal Form for Paper Submittals: Provide locations on form for the following information:
 - 1) Project name.
 - 2) Date.
 - 3) Destination (To:).
 - 4) Source (From:).
 - 5) Name and address of Engineer.
 - 6) Name of Construction Manager.
 - 7) Name of Contractor.
 - 8) Name of firm or entity that prepared submittal.
 - 9) Names of subcontractor, manufacturer, and supplier.
 - 10) Category and type of submittal.
 - 11) Submittal purpose and description.
 - 12) Specification Section number and title.
 - 13) Specification paragraph number or drawing designation and generic name for each of multiple items.
 - 14) Drawing number and detail references, as appropriate.
 - 15) Indication of full or partial submittal.
 - 16) Transmittal number, **numbered consecutively**.
 - 17) Submittal and transmittal distribution record.
 - 18) Remarks.
 - 19) Signature of transmitter.
- E. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Owners and Owner's Representative.
 4. Transmittal Form for Electronic Submittals: Use **electronic form** acceptable to Owner, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of firm or entity that prepared submittal.
 - g. Names of subcontractor, manufacturer, and supplier.
 - h. Category and type of submittal.
 - i. Submittal purpose and description.
 - j. Specification Section number and title.
 - k. Specification paragraph number or drawing designation and generic name for each of multiple items.
 - l. Drawing number and detail references, as appropriate.
 - m. Location(s) where product is to be installed, as appropriate.
 - n. Related physical samples submitted directly.
 - o. Indication of full or partial submittal.
 - p. Transmittal number, **numbered consecutively**.
 - q. Submittal and transmittal distribution record.
 - r. Other necessary identification.
 - s. Remarks.
 5. Metadata: Include the following information as keywords in the electronic submittal file metadata:
 - a. Project name.
 - b. Number and title of appropriate Specification Section.
 - c. Manufacturer name.
 - d. Product name.
- F. Options: Identify options requiring selection by Architect.
- G. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Owner and Owner's Representative on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.

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- H. The approved Drawings will be supplemented by such shop drawings as are needed to adequately control the Work. Shop Drawings, product data, samples and other Submittals are not parts of the Contract. The purpose of their submittal is to demonstrate for those portions of the Work for which Submittals are required by the Contract, the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract. Informational Submittals, upon which a County employee, the Architect or Engineer, if retained by the County in connection with the Project, is not expected to take responsive action, may be so identified in the Contract. Submittals which are not required by the Contract may be returned by the County without action. The approval of a Submittal shall not authorize any deviation from or alteration of the Drawings or Specifications absent a Change Order or Field Order.
- I. The County's review will be within reasonable promptness as to cause no delay in the Work. Approval of the Contractor's Submittals does not relieve the Contractor of any responsibility for accuracy of dimensions and details or from otherwise ensuring that the Work complies with the requirements of the Contract. It is mutually agreed that the Contractor shall be responsible for agreement and conformity of Submittals with the Drawings and Specifications. The County will review and approve or take other appropriate action upon the Contractor's Submittals such as shop drawings, product data and samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract. Review of submittals is not conducted for the purpose of determining the accuracy and completeness of details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract. The County's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences or procedures. The County's approval of a specific item shall not indicate approval of an assembly of which the item is a component.
- J. It is the responsibility of the Contractor to check all Submittals before same are submitted to the County for approval. Submittals which have not been checked and approved by the Contractor will not be reviewed by the County.
- K. Submittals shall be submitted only by the Contractor who shall indicate by a signed stamp on the drawings that he has checked the Submittals and that the work shown on them is in accordance with Contract requirements and has been checked for dimensions and relationship with work of all other trades involved. Under no conditions shall Submittals be accepted from anyone other than the Contractor.
- L. The approval of such Submittals shall not relieve the Contractor from responsibility for deviations from Drawings or the Specifications unless he has in writing called attention to such deviations, and the County has approved the changes or deviations in writing at the time of submission, nor shall it relieve him from the responsibility for errors of any kind in Submittals. When the Contractor does call such deviations to the attention of the County, he shall state in writing whether or not such deviations involve any extra cost. If this is not mentioned, it will be assumed that no extra cost is involved for making the change.
- M. The Contractor shall prepare and maintain a log of all Submittals which includes, at a minimum the submittal number, revision number, description, responsible company, proposed submittal date, date actually submitted, date approved, any comments received, approval status, and resubmittal information. The log shall be updated at least on a monthly basis and made available to the County for review upon request.

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- N. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 - 3. Resubmit submittals until they are marked with approval notation from Owner and Owner's Representative action stamp.
- O. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- P. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Owner and Owner's Representative action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
 - 1. Submit electronic submittals via email as PDF electronic files.
 - a. Owner and Owner's Representative will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 - 2. Action Submittals: Submit 4 paper copies of each submittal unless otherwise indicated. Owner will return 1 copy.
 - 3. Informational Submittals: Submit 3 paper copies of each submittal unless otherwise indicated. Owner will not return copies.
 - 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
 - b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.

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3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 5. Submit Product Data before or concurrent with Samples.
 6. Submit Product Data in the following format:
 - a. PDF electronic file.
 - b. 4 paper copies of Product Data unless otherwise indicated. Owner and Owner's Representative will return 1 copies.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Shop drawings to be furnished by the Contractor for any structure shall consist of such detailed drawings as may be required for the execution of the work.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least **8-1/2 by 11 inches (215 by 280 mm)**, but no larger than **22 by 34 inches (750 by 1067 mm)**.
 3. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
 4. BIM File Incorporation: **Develop and incorporate** Shop Drawing files into Building Information Model established for Project.

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- a. Prepare Shop Drawings in the following format: **Same digital data software program, version, and operating system as the original Drawings.**
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
 3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit **one** full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Owner and Owner's Representative will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - a. Number of Samples: Submit **three** sets of Samples. Owner will retain **two** Sample sets; remainder will be returned. **Mark up and retain one returned Sample set as a project record sample.**

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- 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least **three** sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
 5. Submit product schedule in the following format:
 - a. PDF electronic file.
- F. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
- G. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- H. Maintenance Data: Comply with requirements specified in Section 017823 "Operation and Maintenance Data."
- I. LEED Submittals: Comply with requirements specified in Section 018113.13 "Sustainable Design Requirements - LEED for New Construction and Major Renovations," Section 018113.16 "Sustainable Design Requirements - LEED for Commercial Interiors," Section 018113.19 "Sustainable Design Requirements - LEED for Core and Shell Development," and Section 018113.23 "Sustainable Design Requirements - LEED for Schools."
- J. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- K. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- L. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- M. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

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- N. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- O. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- P. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- Q. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- R. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - 1. Name of evaluation organization.
 - 2. Date of evaluation.
 - 3. Time period when report is in effect.
 - 4. Product and manufacturers' names.
 - 5. Description of product.
 - 6. Test procedures and results.
 - 7. Limitations of use.
- S. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- T. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- U. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- V. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

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2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit **digitally signed PDF electronic file** paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Owner and Owner's Representative.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 OWNER AND OWNER'S REPRESENTATIVE ACTION

- A. Action Submittals: Owner and Owner's Representative will review each submittal, make marks to indicate corrections or revisions required, and return it. Owner and Owner's Representative will stamp each submittal with an action stamp and will mark stamp appropriately to indicate **action**.
- B. Informational Submittals: Owner and Owner's Representative will review each submittal and will not return it, or will return it if it does not comply with requirements. Owner and Owner's Representative will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Owner and Owner's Representative.

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- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION 013300

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SECTION 017420 – MISCELLANEOUS WORK AND CLEAN-UP

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. This section includes policies and procedures regarding the prevention of the accumulation of waste materials on the site and the clean-up of waste materials thereof, throughout the duration and upon the completion of work.
- B. This section includes miscellaneous work related to quality control including, but not limited to: protection of active utilities, procedures for utility crossings, and relocation of existing gas lines.
- C. This section includes operations which cannot be specified in detail as separate items, but can be sufficiently described as to the kind and extent of work involved. Furnish all labor, materials, equipment and incidentals to complete the work under this Section.

1.2 QUALIFICATIONS AND REQUIREMENTS

- A. Contractor shall keep the project site free from accumulation of waste materials and rubbish at all times during the construction period. At completion of the work, the Contractor shall remove all waste materials and rubbish from and about the Project, as well as his tools, construction equipment, machinery and surplus materials, except those specifically required by the Contract Documents to be left for the Owner's maintenance. The Contractor shall at all times, keep the premises free from accumulation of waste materials or rubbish caused by Contractor's employees or work. Upon completion of the Work, the Contractor shall remove all his plants, tools, materials, and other articles from the property of the County.
- B. If Contractor fails to keep project clean or to clean up prior to Date of Substantial Completion, the Owner may do so, and the cost thereof will be charged to the Contractor. If the Contractor fails to clean up, as provided in the Contract, the County may do so, and the cost thereof shall be charged to the Contractor. Contractor shall ensure that neither it, its Subcontractors, nor their employees or agents bring any hazardous materials or other materials/waste regulated by state, federal or local law, which are not commonly used in the construction process or which are not listed in any Specifications for the Project onto the Project site without first obtaining the County's advance written approval. Contractor agrees to ensure that any hazardous materials/waste or other materials/waste regulated by state, federal or local law that Contractor, its Subcontractors or their employees or agents, bring onto or generate at the Project Site are handled in accordance with all applicable laws.
- C. The Contractor shall pay all required material disposal fees and shall dispose of all materials in accordance with all applicable laws and regulations. The Contractor shall be responsible for all costs associated with improper disposal of materials, including any clean-up costs, fines or penalties, whether levied against the Contractor or the County.

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- D. In addition to removing rubbish on a periodic basis and leaving the building broom clean, the Contractor shall clean all tile and glass; replace broken glass; remove stains, paint spots, and dirt from all Work; clean and polish all plumbing fixtures and equipment; and remove all temporary protection items. To the maximum extent reasonably possible, the Contractor shall keep the interior of the building free of combustible materials as the Work progresses.
- E. The Contractor shall maintain and keep clean at all times the immediate approach to the Project site, including the roads abutting the Project site.
- F. Attention is directed to the State Soil Erosion and Sediment Control laws, ordinances and requirements.

1.3 SAFETY

- A. Store volatile waste in covered metal containers or as required by state and federal requirements, and remove from project site daily to an approved facility.
 - 1. Allow no volatile wastes to accumulate on project site.
 - 2. Provide adequate ventilation during use of volatile substances.
- B. Do not burn or bury waste materials and/or rubbish on project site.
- C. Dispose of no volatile wastes such as, but not limited to, mineral spirits, oil or paint thinner in storm or sanitary drains, on pavements or in gutters, or on project site.
- D. Dispose of no waste or cleaning materials which contain materials harmful to plant growth on project site. Clean up materials which are accidentally spilled as quickly as possible.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Materials required for this section shall be of the same quality as materials that are to be restored. Where possible, reuse existing materials that are removed and then replaced.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Clean-up during construction
 - 1. Execute cleaning procedures to insure that building, project site and adjacent properties are maintained free from debris, dust, and rubbish.
 - 2. Wet down materials subject to blowing. Throw no waste materials from heights.
 - 3. Provide covered, on-site containers for waste collection. Place all waste materials and rubbish in containers in an expeditious manner to prevent accumulation. Remove waste from project site when containers become full.

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4. Legally dispose of all waste materials, rubbish, volatile materials and cleaning materials off project site.
5. At time finishing work begins, maintain project in a "broom-clean" state until Date of Substantial Completion. Protect newly finished and clean surfaces from contamination during cleaning operations.
6. Allow no accumulation of debris which contributes to survival or spread of rodents, roaches or other pests.
 - a. Remove debris containing food scraps on a daily basis.
 - b. Should pests inhabit project, Contractor shall be responsible for securing services of a pest exterminator at no additional cost to the Owner.

B. Protection and clean-up of roads

1. Spillovers on roads from trucks entering or leaving the site shall be cleaned up on a continuing basis so that pavements and adjacent sidewalks will not be littered with earth, stones, or any other debris resulting from construction operations.
2. Large accumulations of earth and mud shall be removed from truck wheels and loose accumulations of earth, sand or gravel shall be removed from vehicle underbodies and ledges as much as feasible before entry upon public roads.

C. **Stripping:** In areas so designated, topsoil shall be stockpiled. The topsoil shall be protected until it is placed as specified. Any topsoil remaining after all work is in place shall be used on-site in designated areas.

D. **Bench marks:** Maintain carefully all benchmarks, monuments, and other reference points. If disturbed, replace as directed by the Owner's licensed Engineer and/or Surveyor.

E. **Incidental work:** Do all incidental work not otherwise specified, but obviously necessary for the proper completion of the contract as specified and as shown on the drawings.

3.2 ACTIVE UTILITIES

A. Active utilities traversing the site shall be preserved in operating condition. Repair damage to all such utilities due to work under this Contract, to the satisfaction of the authority having jurisdiction over the utility.

B. Disconnect or arrange for the disconnection of utility service in accordance with regulations governing the utility concerned and as shown on the drawings or which interfere with the work.

C. **Crossing Utilities:**

1. No extra work will be paid for crossing culverts, water courses, drains, water mains, and other utilities, including all sheeting and bracing, extra excavation and backfill, or any other work required for the crossing, whether or not shown on the drawings.
2. In no case shall there be less than 0.3 feet between any two pipe lines and structures.
3. Provide a 6" minimum concrete encasement around the new sewer whenever the vertical clearance between an existing water main and if the new sewer is less than 18".

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4. Where new sewers cross over existing water mains, they shall be encased in 6" minimum of concrete. Encasement shall be a minimum 5'-0" in length.

D. **Relocation of Existing Gas Lines:** Notify the proper authority of the utility involved when relocation of gas lines is required. Coordinate all work and required permits by the utility so that the progress of construction will not be hampered.

3.3 FINAL CLEAN-UP

A. Prior to Date of Substantial Completion clean all finished surfaces in accord with manufacturer's product data and requirements specified in trade sections. All general and specific cleaning shall be performed prior to Contractor's request that the project or portion thereof be inspected for Substantial Completion.

B. Remove dust, debris, oils, stains and fingerprints and labels from exposed interior and exterior finish surfaces, including glazing materials.

C. Repair, patch and touch up marred surfaces to match adjacent finishes. Replace materials which cannot be repaired or patched.

D. Clean disturbed areas of project site of debris.

1. Broom clean paved surfaces. Remove oil and similar deleterious substances.

END OF SECTION 017420

GDOT STANDARD SPECIFICATIONS

The GDOT specifications listed below shall be used for all project area applications. All areas shown in the DeKalb County Fair Oaks Roads Package are considered project areas.

01) DEFINITIONS

GDOT Standard Specifications shall include applicable referenced sections in the Georgia Department of Transportation, State of Georgia, Standard Specifications, Construction of Transportation Systems, 2001 Edition. Specification sections not specifically listed below or on the drawings shall not apply.

Whenever the word "Department" or "City" appears within the referenced GDOT Standard Specifications, it shall be understood to mean "DeKalb County Department of Watershed Management".

Whenever the words "Chief Engineer," "Engineer," "Inspector," "Superintendent," or "Treasurer" appear within the referenced GDOT Standard Specifications, it shall be understood to mean an "authorized representative of Prime Engineering".

Whenever the words "Contractor" or "Construction Manager" appear within the referenced GDOT Standard Specifications, it shall be understood to mean Owners and/ or Owner's Representatives.

The Contractor shall be responsible for all "Quality Control" testing while the County shall be responsible for all "Quality Assurance" testing required in the specifications.

02) REFERENCES

The following GDOT Standard Specifications sections are referenced in the plans for Roadway and Landscape areas. All commands and references in, or in connection with, these Specifications (including all text, related documents, electronic media, graphics, or photographs) are written to imply Contractor responsibility for action unless otherwise specified.

Additional modifications to any GDOT specifications are included herein as Special Provisions.

NOTE:

Disregard any references to the International System of Units (SI or

"metric" units).

SPECIFICATION SECTIONS SPECIFICALLY LISTED BELOW OR ON THE DRAWINGS SHALL APPLY:

General Provisions

Section 105 - Control of Work

Section 150 – Special Provision Traffic Control (Rev 8/1/12)

Section 151 - Mobilization

Erosion Control

Section 161 - Control of Soil Erosion and Sedimentation

Section 162 - Erosion Control Check Dams

Section 163 - Miscellaneous Erosion Control Items

Section 165 - Maintenance of Temporary Erosion & Sedimentation Control Devices

Section 167 - Water Quality Monitoring

Section 171 - Temporary Silt Fence

Earthwork

Section 201 - Clearing and Grubbing Easements & Right of Way

Section 205 - Roadway Excavation

Section 206 - Borrow Excavation

Section 207 - Excavation and Backfill for Minor Structures

Section 209 - Subgrade Construction

Section 210 - Grading Complete

Section 219 - Crushed Aggregate Subbase

Section 221 - Special Subgrade Compaction and Test Rolling

Base & Subbases

Section 222 - Aggregate Drainage Courses

Section 300 - General Specifications for Base and Subbase Courses

Section 310 - Graded Aggregate Construction

Section 311 - Crushed Stone Base

Pavements

Section 402 - Hot Mined Recycled Asphalt Concrete

Section 413 - Bituminous Tack Coat

Section 430 - Portland Cement Concrete Paving

Section 432 - Mill Asphaltic Concrete Pavement.

Section 441 - Miscellaneous Concrete

Miscellaneous Items

Section 610 - Removal of Miscellaneous Roadway Items (within proposed easement)

Section 652 - Painting Traffic Stripe

Section 653 - Thermoplastic Plastic Traffic Stripe

Section 700 - Grassing

Section 706 - Turf Establishment

Section 708 - Plant Topsoil

All applicable Section 800 and 900 series GDOT specs that are referenced in the aforementioned GDOT specifications apply to this project.

END OF SECTION GDOT SPECIFICATIONS

FAIROAKS ROAD WATER MAIN REPLACEMENT PROJECT

SECTION 022050 - DEWATERING PART I: GENERAL

1.1 SECTION INCLUDES

- A. This section specifies the control, handling, and disposal of groundwater and surface water during construction. This work includes the installation, operation, and removal of all facilities required to maintain open excavations and trenches in a dewatered condition to permit unrestricted construction operations.
- B. The Contractor shall be responsible for the stability of all temporary and permanent slopes, grades, trenches, foundations, materials, and structures during the course of the Work. The Contractor shall repair and replace all slopes, grades, foundations, materials, and structures damaged by water, both surface and subsurface, to the lines, grades, and conditions existing prior to the damage, at no additional cost to the County.
- C. The Contractor shall construct all permanent work in areas free from water. The Contractor shall design, construct, and maintain all pumping systems, dikes, levees, cofferdams, and diversion and drainage channels as necessary to maintain construction areas free from water and to protect the areas occupied by permanent work from water damage. The Contractor shall remove temporary work after it has served its purpose.
- D. Excavation/Trench Dewatering Requirements.
- E. Stream and Surface Water Diversion Provisions.
- F. Disposal of Water Removed from Excavations and Trenches.

1.2 REFERENCES

Occupational Safety and Health Administration (OSHA) Regulations.

1.3 DEFINITIONS

- A. **Dewatering:** includes lowering the water table and intercepting seepage which would otherwise emerge from slopes or bottoms of excavations and disposing of removed water. The intent of dewatering is to increase stability of excavated slopes; prevent dislocation of material from slopes or bottoms of excavations; reduce lateral loads on sheeting and bracing; improve excavating and hauling characteristics of excavated material; prevent failure or heaving of the bottom of excavations; and provide suitable conditions for placement of backfill materials and construction of structures and other installations.
- B. **Surface drainage:** includes use of temporary drainage ditches and dikes and installation of temporary culverts and sump pumps with discharge lines as required to protect the Work from any source of surface water.

1.4 JOB CONDITIONS

- A. Permits:

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1. Prior to land disturbing activities or discharging water into a storm sewer or waterway, the Contractor shall obtain all necessary permits from the jurisdictional agencies and submit a Notice of Intent to the Georgia Environmental Protection Division by certified return receipt mail at least fourteen (14) days prior to conducting any land disturbance activities.
2. Notice of termination and applicable requirements to be submitted to the Georgia Environmental Protection Division and be approved prior to close out of project.

B. Responsibilities:

1. The Contractor shall select and install a system to control water as specified in this section, and to comply with the requirements of the jurisdictional agencies.
2. The Contractor shall take measures to prevent damage to properties, buildings or structures, sewers and other utility installations, pavements, sidewalks, and the Work.
3. The Contractor shall not overload or obstruct existing facilities.
4. The Contractor shall modify the dewatering system at no additional cost to the County if after installation and while in operation it causes or threatens to cause damage to existing buildings, structures, utilities, facilities, or other adjoining property.
5. The Contractor shall monitor the quality of the discharge from the dewatering system to determine if soil particles are being removed by the system and install and maintain settling basins or other measures as required to control particle removal.
6. The Contractor shall measure and evaluate if movements are being caused to adjacent buildings, structures, utilities, facilities, or other adjoining properties by dewatering operations.
7. The Contractor shall repair damage, disruption, or interference resulting directly or indirectly from dewatering operations at no additional cost to the County and to the County Engineer's approval.
8. The Contractor shall submit plans and details for the protection of the Work where applicable. These plans shall include details of bulkheads, pumping facilities, dikes, and drainage.
9. No separate payment will be made for dewatering.

1.5 PERFORMANCE REQUIREMENTS

- ### A. The Contractor shall provide a dewatering system to produce the following results:
1. Effectively reduce the hydrostatic pressure affecting excavations.
 2. Develop a substantially dry and stable subgrade for subsequent construction operations.

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3. Preclude damage to adjacent properties, buildings, structures, utilities, installed facilities, and other work.
 4. Prevent the loss of fines, seepage, boils, quick condition, or softening of the foundation strata.
 5. Maintain stability of sides and bottom of excavations.
- B. The Contractor shall provide drainage of seepage water, surface water, and water from any other source entering the excavation. Dewatering of excavations and trenches may include placement of drainage materials, such as crushed stone and filter fabric, together with sump pumping.
- C. The Contractor shall provide ditches, berms, pumps, and other methods necessary to divert and drain surface water from excavations and other Work areas.
- D. The Contractor shall locate groundwater and surface water control and dewatering systems so as not to interfere with utilities, construction operations, adjacent properties, or adjacent water wells.
- E. The Contractor shall assume sole responsibility for the dewatering system and for any loss or damage resulting from partial or complete failure of protective measures and any settlement, or resultant damage caused by the dewatering operations. The Contractor shall modify dewatering system if it causes or threatens to cause damage to new construction, existing improvements within the site of the Work, adjacent properties, or adjacent water wells. The Contractor shall repair damage caused by the dewatering system or damage resulting from failure of the dewatering system to protect properties as required.
- F. No separate payment will be made for dewatering.

1.6 SUBMITTALS

- A. The Contractor shall submit a dewatering plan to the Owner prior to commencing Work. The dewatering plan shall be submitted for each site where required and include the following:

A description of the proposed dewatering system indicating arrangement, location, depth, and capacities of system components, installation details, and operation and maintenance procedures.

1. Design calculations (if any).
2. Standby equipment and power supply.
3. Location and size of berms, dikes, settling basins, sumps, and discharge items.
4. Pollution control facilities.
5. Discharge locations.

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6. Surface water control and drainage installations.
 7. Proposed methods and locations for disposing of removed water.
 8. Copies of all permits and applications when submitted to permitting agency required to discharge water removed from construction areas.
- B. Working drawings and supporting documents shall be revised and resubmitted to the Owner if the dewatering system is modified during installation or during operation.

PART 2 - PRODUCTS

Not Applicable

PART 3 - EXECUTION

3.1 PROTECTION OF RESOURCES

- A. Construction operations shall be planned and conducted in such a manner so as to prevent adverse impact on streams, lakes, and reservoirs with sediment or other harmful material used in the construction of the project. The Contractor shall comply with all regulations of the Environmental Protection Agency (EPA), the Georgia Department of Natural Resources, Environmental Protection Division (EPD), the Georgia Department of Transportation, and local issuing authority.

3.2 EXCAVATIONS/TRENCH DEWATERING

- A. Dewatering shall include removal of all liquid, regardless of source, from excavations and trenches. The Contractor shall provide an adequate dewatering system for all excavations and trenches. The dewatering system shall be capable of removing any water that accumulates in excavations and trenches and maintain the excavation and trench in a dry condition while construction is in progress. The area excavated at any time shall be limited to that which can be properly dewatered by the equipment or system in use.
- B. The Contractor shall make the effort necessary to secure a dry trench bottom before bedding or haunching, laying pipe, placing concrete, or backfilling. If, in the opinion of the Owner, the Contractor has failed to obtain an absolutely dry trench bottom by insufficient use of all known methods of trench dewatering, the Owner may order the Contractor to excavate below grade and place not less than six (6) inches of graded crushed stone fill material over the trench bottom to form french drains to suitably locate sumps and to remove the water by bailing or pumping. The graded crushed stone fill material shall be placed at the Contractor's expense, and shall be of such depth that there shall be no water in bell holes at the time of coupling the pipe.
- C. The Contractor shall provide and maintain ditches of adequate size to collect surface water and seepage which may enter the excavations and divert the water into a sump so that it can be drained or pumped into drainage channels and settling basins prior to discharge to storm sewers if approved by the Owner and the jurisdictional agency concerned.
- D. The Contractor shall install all drainage ditches, sumps, and pumps to control excessive seepage on excavated slopes, to drain isolated zones with perched water tables and to drain

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impervious surfaces at final excavation elevation.

- E. The Contractor shall perform dewatering operations by means which will insure dry excavations, preserve final lines and grades, and not disturb or displace adjacent soil.
- G. Excavations shall be continuously dewatered to maintain a ground water level no higher than two (2) feet below the lowest point in the excavation. Dewatering shall be accomplished well enough in advance of excavation to ensure that groundwater is already lowered prior to completing the final excavation to finish subgrade.
- H. Where dewatering is performed by pumping the water from a sump, crushed stone shall be used as the medium for conducting the water to the sump. Sump depth shall be at least two (2) feet below the bottom of the trench. Pumping equipment shall be of sufficient quantity and/or capacity to maintain the water level in the sump at least two (2) feet below the bottom of the trench. Pumps shall be a type such that intermittent flows can be discharged. A standby pump shall be required in the event the operating pump or pumps clog or otherwise stop operating.
- I. The Contractor shall dewater trenches by use of a well point system when pumping from sumps does not lower the water level at least two (2) feet below the trench bottom. Where soil conditions dictate, the Contractor shall construct well points cased in sand wicks. A casing, six (6) to ten (10) inches in diameter, shall be jetted into the ground, followed by the installation of the well point, filling casing with sand, and withdrawing the casing.
- G. All destabilized subgrade conditions caused by inadequate or untimely dewatering operations shall be undercut and backfilled with suitable backfill material at no additional cost to the Owner.
- H. The Contractor shall install settling basins or other approved apparatus as required to control the amount of fine particles and other pollutants which may be carried by water diverted into storm sewers or flowing off the site of the Work.
- I. Should a storm sewer become blocked or have its capacity restricted due to the dewatering operations, the Contractor shall make arrangements with the jurisdictional agency for the cleaning of the sewer and appurtenances at no additional cost to the Owner.
- J. The Contractor shall backfill drainage ditches, sumps, and settling basins when no longer required, with granular material, concrete, or other material as approved by the Owner.

3.4 STREAM AND SURFACE WATER DIVERSION

- A. The Contractor shall use all practical means such as ditches, berms, dikes, sand bags, hay bales, or other methods, approved by the Owner's Engineer, to prevent surface water from entering excavations. The diversion of surface water shall be performed in a manner that will prevent the accumulation of water around structures or any other locations within the site of the Work where it may be detrimental.
 - 1. The Contractor shall intercept and divert surface drainage away from the excavations, by the use of dikes, curb walls, ditches, pipes, sumps, or other means.
 - 2. The Contractor shall design surface drainage systems so that they do not cause erosion

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on or off the site or cause unwanted flow of water.

3. The Contractor shall remove the surface drainage system when no longer required.
 4. The Contractor shall remove debris and restore the site or sites to original condition.
 5. Where pipes cross natural drainage channels, the Work shall be conducted in such a manner that unnecessary damage or delays in the prosecution of the Work shall be prevented.
- B. If stream diversion or relocation around the site of the Work is required, the Contractor shall return the stream to its original location and contours. Slopes in stream relocations shall be seeded above the waterline.

3.5 DISPOSAL OF WATER REMOVED FROM EXCAVATIONS AND TRENCHES

- A. The Contractor shall dispose of water from the Work in accordance with the regulations established by the Environmental Protection Agency (EPA), the Georgia Environmental Protection Division (EPD), and in a manner approved by the Owner.
- B. The Contractor shall dispose of the water resulting from dewatering operations in a manner that will not damage or interfere with the normal drainage of the site of the Work. In addition, the Contractor shall protect from damage any portion of the Work completed or in progress, surfaces of streets, and public or private property.
- C. All gutters, drains, culverts, storm sewers, and inlets around the site of the Work shall be kept clean and open for normal surface drainage.
- D. The Contractor shall not direct water across or over pavement except by methods approved by the Owner. Water shall not be drained into Work under construction.
- E. Water removed from excavations and discharged into streams shall be filtered through granular material prior to pumping or through hay bales and siltation fabric after pumping, or both, if required by the Owner. Discharges into streams shall be conducted in accordance with regulations established by the Environmental Protection Agency (EPA) and the Georgia Department of Natural Resources, Environmental Protection Division (EPD).

END OF SECTION

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SECTION 024100 – DEMOLITION

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Site Demolition:

1. Demolition of site improvements including paving, curbing, site walls, and utility structures.
2. Demolition of below-grade foundations and site improvements to depth to avoid conflict with new construction or site work.
3. Removal of hollow items or items that could collapse.
4. Protection of site work and adjacent structures.
5. Disconnection, capping, and removal of utilities.
6. Pollution control during demolition, including noise control.
7. Salvaging items noted to be salvaged.
8. Removal and legal disposal of materials.

B. Selective Demolition:

1. Removal of abandoned utilities and wiring systems.
2. Notification to Owner of schedule of the shut off of utilities serving occupied spaces.
3. Pollution control during selective demolition, including noise control.
4. Salvaging items noted to be reused within project only or salvaged.
5. Removal and legal disposal of materials

1.2 RELATED SECTIONS

- A. Section 311000 - Site Clearing

1.3 SUBMITTALS

- A. Permit for transport and disposal of debris
- B. Demolition procedures and operation sequences for review and acceptance by Owner or Owner's Representative

1.4 QUALITY ASSURANCE

- A. Comply with governing codes and regulations.
- B. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

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- C. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; current edition.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Immediately remove from site all demolished material not being reused.

PART 3 - EXECUTION

3.1 GENERAL PROCEDURES

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Comply with applicable requirements of NFPA 241.
 - 3. Take precautions to prevent collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
- B. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- C. If unidentified hazardous materials are discovered during removal operations, stop work and notify Project Engineer immediately; hazardous materials include, but are not limited to, regulated asbestos-containing materials, lead, PCBs, mercury, and petroleum products.
- D. See Section 311000 – Site Clearing – for additional requirements pertaining to demolition of sitework and vegetation.

3.2 EXISTING UTILITIES

- A. Coordinate work with utility companies; notify before starting work and comply with utility company requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from the authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems currently in use without at least seven days' prior written notification to Project Engineer.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs currently in use without at least three days' prior written notification to Project Engineer.

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- F. Locate and mark all utilities to remain and those to be removed; mark using highly visible tags or flags with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- H. Where conduit is to remain and where conductor is to be disconnected, remove all conductors to electrical panel.
- I. Do not interrupt utilities serving occupied or used facilities without the written permission of the Owner and authorities having jurisdiction. If necessary, provide temporary utilities.

3.3 DEMOLITION

- A. Locate, identify, disconnect, and seal or cap off indicated utilities serving buildings and structures to be demolished.
- B. Verify that utilities have been disconnected and capped before starting demolition activities.
- C. Do not damage building elements and improvements indicated to remain. Items of salvage value not included on schedule of salvage items to be returned to Owner shall be removed from structure. Storage or sale of items at project site is prohibited.
- D. Salvaged items to be returned to owner or reused shall be stored in a secure area and protected until reinstalled or returned to owner.
- E. Perform an engineering survey of the condition of the building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- F. Do not close or obstruct streets, walks, drives, or other occupied or used spaces or facilities without the written permission of the Owner and the authorities having jurisdiction.
- G. Cease operations if public safety or remaining structures are endangered. Perform temporary corrective measures until operations can be continued properly.
- H. Provide adequate protection against accidental trespassing. Secure project after work hours.
- I. Promptly repair damage to adjacent buildings, and other structure improvement systems caused by demolition operations.
- J. Unless otherwise indicated, demolition waste becomes property of Contractor.
- K. Instructions for special demolition work
- L. Repair demolition performed in excess of that required.
- M. Do not burn materials on site.
- N. Pollution Controls: Comply with governing regulations for environmental protection.

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1. Use water sprinkling, temporary enclosures, and other suitable methods to limit amount of dust and dirt rising and scattering in air.
 2. Provide hoses and water main or hydrant connections.
 3. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution.
- O. Break up and remove concrete slabs-on-grade and trench caps unless otherwise indicated to remain.
- P. Filling Voids:
1. Completely fill below-grade areas and voids resulting from demolition.
 2. Use soil materials consisting of stone, gravel, and sand; free from debris, trash, frozen materials, roots and other organic matter, and stones larger than 2 inches.
 3. Prior to placement of fill materials, ensure that areas to be filled are free of standing water, frost, frozen material, trash, and debris.
 4. Place fill materials in horizontal layers not exceeding 6 inches loose depth.
 5. Compact each layer at optimum moisture content of fill material to density equal to original adjacent ground, unless subsequent excavation for new work is required.
 6. After fill placement and compaction, grade surface to meet adjacent contours and provide flow to surface drainage structures.
- Q. Notify warrantor on completion of selective demolition, and obtain documentation verifying that the existing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

3.4 DISPOSAL AND REMOVAL

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other non-recyclable materials. Store without intermixing with other materials and transport recyclable materials to recycling facilities. Do not interfere with other Project work.
- C. Open burning will not be permitted.

END OF SECTION 024100

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SECTION 024110 – MODIFICATIONS TO EXISTING STRUCTURES, PIPING, AND EQUIPMENT

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish all labor, materials, equipment, and incidentals required to modify, alter and/or convert existing structures as shown or specified and as required for the installation of new mechanical equipment, piping, and appurtenances. Existing piping and appurtenances shall be removed and dismantled as necessary for the performance of alterations in accordance with the requirements herein specified.

1.2 RELATED WORK

- A. Section 311000: Site Clearing
- B. Section 017420: Miscellaneous Work and Clean-up

PART 2 - PRODUCTS

(Not Used)

PART 3 - EXECUTION

3.1 GENERAL

- A. The contractor shall cut, repair, reuse, excavate, demolish, or otherwise remove parts of the existing structures or appurtenances, as indicated on the Contract Drawings, herein specified, or necessary to permit completion of the work under this Contract. He shall dispose of surplus materials resulting from the above work in an approved manner.
- B. The Contractor shall dismantle and remove all existing equipment, piping, and other appurtenances required for the completion of the work. Where called for or required, the Contractor shall cut existing pipelines for the purpose of making connections thereto.
- C. At the time that a new connection is made to an existing pipeline, additional new piping, extending to and including the most convenient new valve, shall be installed.
- D. No existing structure, equipment, or appurtenance shall be shifted, cut, removed, or otherwise altered except as shown on the drawings.
- E. When removing materials or portions of existing structures and when making openings in walls and partitions, the Contractor shall take all precautions and use all necessary barriers and other protective devices so as not to damage the structures beyond the limits necessary for the new work, and to damage the structures or contents by falling or flying debris. Unless otherwise permitted, line drilling will be required in cutting existing concrete.

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- F. Materials and equipment removed in the course of making alterations and additions shall remain the property of the Owner, except those items not salvageable, as determined by the Engineer and the Owner shall become the property of the Contractor to be disposed of by him off the work site at his own place of disposal. Operating equipment shall be thoroughly cleaned, lubricated, and greased for protection during prolonged storage.
- G. All alterations to existing structures shall be done at such time and in such manner as will comply with the approved time schedule. So far as possible before any part of the work is started, all tools, equipment, and materials shall be assembled and made ready so that the work can be completed without delay.
- H. All workmanship and new materials involved in constructing the alterations shall conform to the General Specifications for the classes of work insofar as such specifications are applicable.
- I. All cutting of existing masonry or other material to provide suitable bonding to new work shall be done in a manner to meet the requirements of the respective section of these specifications covering the new work. When not covered, the work shall be carried on in the manner and to the extent directed by the Engineer.
- J. Surfaces of seals visible in the completed work shall be made to match as nearly as possible the adjacent surfaces.
- K. Non-shrink grout shall be used for setting wall castings, sleeves, leveling pump bases, doweling anchors into existing concrete, and elsewhere as shown.
- L. Where necessary or required for the purpose of making connections, the Contractor shall cut existing pipelines in a manner to provide an approved joint. Where required, he shall weld beads, flanges, or provide Dresser Couplings, all as required.
- M. The Contractor shall provide flumes, hoses, piping, and other related items to divert or provide suitable plugs, bulkheads, or other means to hold back the flow of wastewater, water, or other liquids, all as required in the performance of the work under this Contract.
- N. The Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Project and other persons who may be affected thereby, all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, lakes, drainage ways, walks, pavements, roadways, structures, and utilities not designated for removal, relocation or replacement in the course of construction.
- O. The Contractor shall erect and maintain, as required by the conditions and progress of the Work, all necessary warning safeguards for devices and the safety and protection of the Work, the public and adjoining property.
- P. If existing utilities or structures are indicated by the Contract, no warranty is made as to the accuracy or completeness of such indication or the information provided regarding such utilities or structures. The Contractor shall comply with all applicable state law concerning the marking and location of existing utilities. The Contractor shall, prior to commencing other on-site work, accurately locate above and below ground utilities and structures, which may be affected by the

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Work, using whatever means may be appropriate, and shall verify the nature and condition of such utilities and structures. The Contractor shall mark the location of existing utilities and structures, if they are not otherwise readily visible, with flagging, stakes, barricades, or other suitable means, and shall preserve and protect all utilities and structures not designated for removal, relocation, or replacement in the course of construction. Contractor shall notify the County promptly of discovery of any conflict between the Contract and any existing facility.

- Q. All existing utilities, both public and private, including but not limited to, sewer, gas, water, electrical, and telephone services, shall be protected and their operation shall be maintained through the course of the Work. Any temporary shutdown of an existing service shall be arranged between the Contractor and the responsible agency. The Contractor shall assume full responsibility and hold the County harmless from the result of any damage that may occur as a result of the Contractor's activities in this regard.
- R. In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, or unanticipated conditions where delay would substantially impact the time or cost of work, the Contractor, upon notification to the County, shall act to prevent threatened damage, injury, or loss. Any claim for compensation or extension of time by the Contractor due to such extra work shall be submitted to the County within ten (10) days of the date of performing such work or deviations in the manner prescribed for a Change Order.

3.2 CLEANING EXISTING STRUCTURES

- A. Blasting will not be permitted to complete any work under this Contract. Care shall be taken not to damage any part of existing buildings, foundations, or outside structures.

END OF SECTION 024110

SECTION 031100 – CONCRETE FORMING

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. The work covered by this Section shall consist of furnishing all labor, equipment and materials required to furnish and install all formwork required for cast-in-place concrete. Formwork design, engineering, and construction shall be the responsibility of the Contractor even though it is subject to review. Design of formwork shall be prepared and sealed by a registered structural engineer.

1.2 RELATED WORK

- A. Division 01: General Requirements.
- B. Division 03: Concrete.

1.3 REFERENCE STANDARDS

- A. American Concrete Institute (ACI) Standard Specification 347, "Recommended Practice for Concrete Formwork", latest edition.
- B. American Plywood Association (APA Form V 345, latest edition, "Plywood for Concrete Forming").

1.4 SUBMITTALS

- A. None are required except for premature removal of forms and shores.

1.5 QUALITY ASSURANCE

- A. General design criteria shall conform to ACI 347.
- B. Design criteria for plywood shall conform to APA Form V 345.
- C. Allowable tolerances shall conform to ACI 347.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Upon delivery to the job site, place materials in an area protected from the weather.
- B. Store materials above ground on framework or blocking and cover with protective waterproof covering providing for adequate air circulation.
- C. Materials shall be handled in a manner to prevent damage.

PART 2 – PRODUCTS

2.1 UNEXPOSED FINISH

- A. Forms shall be wood except where other materials are reviewed before use.
- B. Lumber shall be #2 common or better, dressed 4 sides, not less than 3/4-inch thick. Plywood shall be Exterior Plyform B-B, Class 1.

2.2 EXPOSED FINISH

- A. Forms, unless otherwise specified, shall be acceptable panel-type material, to form continuous, straight, smooth exposed surfaces; B-B Plyform, sanded, Class 1, EXT-APA Grade trademarked. Treat face and edges with form release coating.
- B. Panels shall be of the largest practical size and of sufficient strength to withstand the pressure of concrete without bow or deflection.

2.3 FORM-RELEASE COATING

- A. Use a proprietary form-release coating which will not bond with, stain, or in any way adversely affect concrete surfaces. The residual coating shall be compatible with the subsequent finishing, and shall be non-toxic.

2.4 FORM TIES

- A. Form ties shall be free of devices which will leave a hole or depression on the surfaces of the concrete larger than one inch in diameter. The ties shall be such that after forms and tie projections have been removed, no metal will be within one inch of the surfaces. Wire or strap ties so utilized that they would be projecting from the hardened concrete will not be permitted. Temporary through-bolts in permanently embedded, full length, plastic sleeves shall not be used for concrete to be exposed to view.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Construct all forms in accordance with ACI Standard Specification 347.
- B. Forms shall conform to the shape, lines, grades and dimensions indicated on the drawings. Forms shall be sufficiently tight to prevent leakage of mortar and properly braced to maintain position and shape. Forms shall not deflect or deform under the fluid pressure or weight of the liquid concrete and construction loads. Except where noted otherwise on the drawings, chamfer

strips shall be placed in exterior corners of forms for all concrete work; where the size is not indicated on the drawings, use 3/4" x 3/4" chamfers.

- C. Joints in forms shall be butted tightly and bear on solid construction. Where new concrete is placed above a previous placing, the joint between new and old work and the face of each concrete surface shall be exactly in line.
- D. Form sides of concrete footings where earth is too unstable to suitably serve as a form.
- E. Shores shall be used where necessary. Completed concrete members which will be subjected to additional loads during construction shall be adequately shored to protect the members from distortion and damage.
- F. Forms for exposed surfaces shall be coated with form-release coating which shall be applied before reinforcing steel is placed. Any surplus coating on the form surface shall be removed. Wood forms for unexposed surfaces may be thoroughly wetted with water or oiled in lieu of using the proprietary form-release coating. During freezing weather do not use coatings containing water.
- G. Forms shall be constructed so they can be removed readily without hammering, wedging or prying against the concrete. Suitable openings shall be provided at the base of all wall and column forms for cleaning and inspection and kept open until just before concrete is placed.
- H. Coordinate Location: Consult with all other trades and ascertain whether sleeves, anchors, etc., are required and assist those trades in setting same.
- I. Coordinate Pipes and Ducts: Obtain from the various trades the sizes and locations of all pipes or ducts passing through concrete and provide proper formwork to leave openings to accommodate these installations.
- J. Form-Joint Sealers: Where forms cannot be constructed to butt tightly at joints and at ends of forms abutting an irregular surface at the bottom of columns, walls, etc., use resilient foam rubber strips or similar suitable material to avoid leakage of concrete at the joint.

3.2 REMOVAL OF FORMS

- A. Remove forms in a manner that will prevent injury to concrete. Immediately after the forms are removed, all damaged or imperfect work shall be patched or, if the work is severely damaged or unacceptable, it shall be rebuilt. Do not repair honeycombed areas until inspection by the Engineer. The grouting or plugging of form tie holes is specified in Section 03300, Cast-In Place Concrete and Grout.
- B. Do not remove supporting forms or shoring until members have acquired sufficient strength to safely support their weight and any applied load. Unless test cylinders warrant other procedure, do not remove forms before the elapsed time shown in the following schedule.
 - 1. Columns, pedestals, walls, and other vertical faces, not supporting other work 27 hours

2. Suspended slabs and beams 28 days*

* This elapsed time may be reduced upon request by the Contractor, providing sufficient strength is demonstrated by field-cured test cylinders, and by a structural analysis considering the proposed loads in relation to the field-cured strengths, the strength of the remaining forming and shoring system, and any proposed re-shoring. All of the above items shall be reviewed before any premature removal of forms and shores is done.

Even though early removal of forms is allowed, no concrete member shall be subjected to its design loads and forces until the specified 28-day strength has been attained.

- C. Whenever the formwork is removed during the curing period, the exposed concrete shall be cured by one of the methods specified in Section 03300, Cast-In-Place Concrete and Grout.
- D. Forms to be reused shall be thoroughly cleaned and repaired. Split, frayed, delaminated, or otherwise damaged forms shall not be used.
- E. All portions of wood forms shall be completely removed from concrete.

3.3 DEFECTIVE WORK

- A. Should misalignment of forms or screeds, excessive deflection of forms or displacement of reinforcement occur during concrete placing, corrective measures shall be immediately made to insure acceptable lines and surface to required dimensions and cross sections.
- B. If any forms bulge or show excessive deflection, the concrete shall be removed and the work rebuilt, or other corrective measures taken as directed.

END OF SECTION 031100

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SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Protecting existing vegetation to remain.
 - 2. Removing existing vegetation.
 - 3. Clearing and grubbing.
 - 4. Stripping and stockpiling topsoil.
 - 5. Removing above- and below-grade site improvements.
 - 6. Disconnecting, capping or sealing, and **removing site utilities**.
 - 7. Temporary erosion- and sedimentation-control measures.

1.3 DEFINITIONS

- A. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil and is the zone where plant roots grow.
- D. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil and is the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches (50 mm) in diameter; and free of subsoil and weeds, roots, toxic materials, or other nonsoil materials.
- E. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction, and indicated on Drawings.
- F. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction, and **indicated on Drawings**.
- G. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

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1.4 MATERIAL OWNERSHIP

- A. Except for stripped topsoil and other materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 INFORMATIONAL SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
 - 1. Use sufficiently detailed photographs or videotape.
 - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plants designated to remain.
- B. Record Drawings: Identifying and accurately showing locations of capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.6 QUALITY ASSURANCE

- A. Preinstallation Conference: Conduct conference at **Project site**.

1.7 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing site clearing indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
 - 1. Do not proceed with work on adjoining property until directed by Architect.
- C. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises **where indicated**.
- D. Utility Locator Service: Notify **utility locator service** for area where Project is located before site clearing.
- E. Do not commence site clearing operations until temporary erosion- and sedimentation-control **and plant-protection** measures are in place.
- F. The following practices are prohibited within protection zones:

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1. Storage of construction materials, debris, or excavated material.
 2. Parking vehicles or equipment.
 3. Foot traffic.
 4. Erection of sheds or structures.
 5. Impoundment of water.
 6. Excavation or other digging unless otherwise indicated.
 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- G. Do not direct vehicle or equipment exhaust towards protection zones.
- H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
- I. Soil Stripping, Handling, and Stockpiling: Perform only when the topsoil is dry or slightly moist.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 312000 "Earth Moving."
1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.
- B. Antirust Coating: Fast-curing, lead- and chromate-free, self-curing, universal modified-alkyd primer complying with **MPI #79, Alkyd Anticorrosive Metal Primer**.
1. Use coating with a VOC content of **420 g/L (3.5 lb/gal.)** or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain. **Flag** each tree trunk at 54 inches (**1372 mm**) above the ground.
- C. Protect existing site improvements to remain from damage during construction.
1. Restore damaged improvements to their original condition, as acceptable to Owner.

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3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 TREE AND PLANT PROTECTION

- A. General: Protect trees and plants remaining on-site according to the details in the construction documents.
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.

3.4 EXISTING UTILITIES

- A. Owner will arrange for disconnecting and sealing indicated utilities that serve existing structures before site clearing, when requested by Contractor.
 - 1. Verify that utilities have been disconnected and capped before proceeding with site clearing.
- B. Locate, identify, disconnect, and seal or cap utilities indicated to be removed **or abandoned in place**.
 - 1. Arrange with utility companies to shut off indicated utilities.
 - 2. Owner will arrange to shut off indicated utilities when requested by Contractor.
- C. Locate, identify, and disconnect utilities indicated to be abandoned in place.
- D. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Architect not less than **two** days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Architect's written permission.
- E. Excavate for and remove underground utilities indicated to be removed.

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3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
 - 2. Grind down stumps and remove roots, obstructions, and debris below exposed subgrade.
 - 3. Use only hand methods for grubbing within protection zones.
 - 4. Chip removed tree branches and **stockpile in areas approved by Owner.**
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil in a manner to prevent intermingling with underlying subsoil or other waste materials.
 - 1. Remove subsoil and nonsoil materials from topsoil, including clay lumps, gravel, and other objects more than 2 inches (50 mm) in diameter; trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
 - 1. Limit height of topsoil stockpiles to 72 inches (1800 mm).
 - 2. Do not stockpile topsoil within protection zones.
 - 3. Dispose of surplus topsoil. Surplus topsoil is that which exceeds quantity indicated to be stockpiled or reused.
 - 4. Stockpile surplus topsoil to allow for respreading deeper topsoil.

3.7 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.
- B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
 - 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
 - 2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

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3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 311000

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SECTION 330500 - COMMON WORK RESULTS FOR UTILITIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. DeKalb County Water and Sewer Design Standards (latest edition) shall govern this project and have precedence over these specifications when applicable.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Piping joining materials.
 - 2. Transition fittings.
 - 3. Dielectric fittings.
 - 4. Sleeves.
 - 5. Identification devices.
 - 6. Grout.
 - 7. Flowable fill.
 - 8. Piped utility demolition.
 - 9. Piping system common requirements.
 - 10. Equipment installation common requirements.
 - 11. Metal supports and anchorages.

1.3 DEFINITIONS

- A. Exposed Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions.
- B. Concealed Installations: Concealed from view and protected from weather conditions and physical contact by building occupants but subject to outdoor ambient temperatures. Examples include installations within unheated shelters.
- C. ABS: Acrylonitrile-butadiene-styrene plastic.
- D. CPVC: Chlorinated polyvinyl chloride plastic.
- E. PE: Polyethylene plastic.
- F. PVC: Polyvinyl chloride plastic.

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1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Dielectric fittings.
 - 2. Identification devices.

1.5 INFORMATIONAL SUBMITTALS

- A. Welding certificates.

1.6 QUALITY ASSURANCE

- A. Steel Support Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Steel Piping Welding: Qualify processes and operators according to ASME Boiler and Pressure Vessel Code: Section IX, "Welding and Brazing Qualifications."
 - 1. Comply with provisions in ASME B31 Series, "Code for Pressure Piping."
 - 2. Certify that each welder has passed AWS qualification tests for welding processes involved and that certification is current.
- C. Comply with ASME A13.1 for lettering size, length of color field, colors, and viewing angles of identification devices.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.
- B. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.

1.8 COORDINATION

- A. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.
- B. Coordinate installation of identifying devices after completing covering and painting if devices are applied to surfaces.

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PART 2 - PRODUCTS

2.1 PIPING JOINING MATERIALS

- A. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.
 - 1. ASME B16.21, nonmetallic, flat, asbestos free, 1/8-inch (3.2-mm) maximum thickness, unless otherwise indicated.
 - a. Full-Face Type: For flat-face, Class 125, cast-iron and cast-bronze flanges.
 - b. Narrow-Face Type: For raised-face, Class 250, cast-iron and steel flanges.
 - 2. AWWA C110, rubber, flat face, 1/8 inch (3.2 mm) thick, unless otherwise indicated; and full-face or ring type, unless otherwise indicated.
- B. Flange Bolts and Nuts: ASME B18.2.1, carbon steel, unless otherwise indicated.
- C. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer, unless otherwise indicated.
- D. Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.
- E. Brazing Filler Metals: AWS A5.8, BCuP Series, copper-phosphorus alloys for general-duty brazing, unless otherwise indicated; and AWS A5.8, BAg1, silver alloy for refrigerant piping, unless otherwise indicated.
- F. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- G. Solvent Cements for Joining Plastic Piping:
 - 1. ABS Piping: ASTM D 2235.
 - 2. CPVC Piping: ASTM F 493.
 - 3. PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.
 - 4. PVC to ABS Piping Transition: ASTM D 3138.
- H. Fiberglass Pipe Adhesive: As furnished or recommended by pipe manufacturer.

2.2 TRANSITION FITTINGS

- A. Transition Fittings, General: Same size as, and with pressure rating at least equal to and with ends compatible with, piping to be joined.
- B. Transition Couplings NPS 1-1/2 (DN 40) and Smaller:
 - 1. Underground Piping: Manufactured piping coupling or specified piping system fitting.
 - 2. Aboveground Piping: Specified piping system fitting.

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C. AWWA Transition Couplings NPS 2 (DN 50) and Larger:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Cascade Waterworks Mfg. Co.
 - b. Dresser, Inc.; DMD Div.
 - c. Ford Meter Box Company, Inc. (The); Pipe Products Div.
 - d. JCM Industries.
 - e. Smith-Blair, Inc.
 - f. Viking Johnson.
3. Description: AWWA C219, metal sleeve-type coupling for underground pressure piping.

D. Plastic-to-Metal Transition Fittings:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Spears Manufacturing Co.
3. Description: CPVC and PVC one-piece fitting with manufacturer's Schedule 80 equivalent dimensions; one end with threaded brass insert, and one solvent-cement-joint end.

E. Plastic-to-Metal Transition Unions:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Colonial Engineering, Inc.
 - b. NIBCO INC.
 - c. Spears Manufacturing Co.
3. Description: MSS SP-107, PVC four-part union. Include brass or stainless-steel threaded end, solvent-cement-joint or threaded plastic end, rubber O-ring, and union nut.

F. Flexible Transition Couplings for Underground Nonpressure Drainage Piping:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Cascade Waterworks Mfg. Co.
 - b. Fernco, Inc.
 - c. Mission Rubber Company.
 - d. Plastic Oddities.
3. Description: ASTM C 1173 with elastomeric sleeve, ends same size as piping to be joined, and corrosion-resistant metal band on each end.

2.3 DIELECTRIC FITTINGS

- A. Dielectric Fittings, General: Assembly of copper alloy and ferrous materials or ferrous material body with separating nonconductive insulating material suitable for system fluid, pressure, and temperature.
- B. Dielectric Unions:
 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Capitol Manufacturing Co.
 - b. Central Plastics Company.
 - c. EpcO Sales, Inc.
 - d. Hart Industries, International, Inc.
 - e. Watts Water Technologies, Inc.
 - f. Zurn Plumbing Products Group; Wilkins Div.
 3. Description: Factory fabricated, union, NPS 2 (DN 50) and smaller.
 - a. Pressure Rating: 250 psig (1725 kPa) at 180 deg F (82 deg C).
 - b. End Connections: Solder-joint copper alloy and threaded ferrous; threaded ferrous.
- C. Dielectric Flanges:
 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Capitol Manufacturing Co.
 - b. Central Plastics Company.
 - c. EpcO Sales, Inc.
 - d. Watts Water Technologies, Inc.

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3. Description: Factory-fabricated, bolted, companion-flange assembly, NPS 2-1/2 to NPS 4 (DN 65 to DN 100) and larger.
 - a. Pressure Rating: 175 psig (1200 kPa).
 - b. End Connections: Solder-joint copper alloy and threaded ferrous; threaded solder-joint copper alloy and threaded ferrous.

D. Dielectric-Flange Kits:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Advance Products & Systems, Inc.
 - b. Calpico, Inc.
 - c. Central Plastics Company.
 - d. Pipeline Seal and Insulator, Inc.
3. Description: Nonconducting materials for field assembly of companion flanges, NPS 2-1/2 (DN 65) and larger.
 - a. Pressure Rating: 150 psig (1035 kPa).
 - b. Gasket: Neoprene or phenolic.
 - c. Bolt Sleeves: Phenolic or polyethylene.
 - d. Washers: Phenolic with steel backing washers.

E. Dielectric Couplings:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Calpico, Inc.
 - b. Lochinvar Corporation.
3. Description: Galvanized-steel coupling with inert and noncorrosive, thermoplastic lining, NPS 3 (DN 80) and smaller.
 - a. Pressure Rating: 300 psig (2070 kPa) at 225 deg F (107 deg C).
 - b. End Connections: Threaded.

F. Dielectric Nipples:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Perfection Corporation.
 - b. Precision Plumbing Products, Inc.
 - c. Victaulic Company.
3. Description: Electroplated steel nipple with inert and noncorrosive, thermoplastic lining.
 - a. Pressure Rating: 300 psig (2070 kPa) at 225 deg F (107 deg C).
 - b. End Connections: Threaded or grooved.

2.4 SLEEVES

- A. Galvanized-Steel Sheet Sleeves: 0.0239-inch (0.6-mm) minimum thickness; round tube closed with welded longitudinal joint.
- B. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized, plain ends.
- C. Cast-Iron Sleeves: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- D. Molded PVC Sleeves: Permanent, with nailing flange for attaching to wooden forms.
- E. PVC Pipe Sleeves: ASTM D 1785, Schedule 40.
- F. Molded PE Sleeves: Reusable, PE, tapered-cup shaped, and smooth outer surface with nailing flange for attaching to wooden forms.

2.5 IDENTIFICATION DEVICES

- A. General: Products specified are for applications referenced in other utilities Sections. If more than single type is specified for listed applications, selection is Installer's option.

2.6 GROUT

- A. Description: ASTM C 1107, Grade B, nonshrink and nonmetallic, dry hydraulic-cement grout.
 1. Characteristics: Post hardening, volume adjusting, nonstaining, noncorrosive, nongaseous, and recommended for interior and exterior applications.
 2. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.
 3. Packaging: Premixed and factory packaged.

2.7 FLOWABLE FILL

- A. Description: Low-strength-concrete, flowable-slurry mix.
 1. Cement: ASTM C 150, Type I, portland.

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2. Density: 115- to 145-lb/cu. ft. (1840- to 2325-kg/cu. m).
3. Aggregates: ASTM C 33, natural sand, fine and crushed gravel or stone, coarse.
4. Aggregates: ASTM C 33, natural sand, fine.
5. Admixture: ASTM C 618, fly-ash mineral.
6. Water: Comply with ASTM C 94/C 94M.
7. Strength: 100 to 200 psig (690 to 1380 kPa) at 28 days.

PART 3 - EXECUTION

3.1 PIPED UTILITY DEMOLITION

- A. Disconnect, demolish, and remove piped utility systems, equipment, and components indicated to be removed.
 1. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 2. Piping to Be Abandoned in Place: Drain piping. Fill abandoned piping with flowable fill, and cap or plug piping with same or compatible piping material.
 3. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 4. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make operational.
 5. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
- B. If pipe, insulation, or equipment to remain is damaged in appearance or is unserviceable, remove damaged or unserviceable portions and replace with new products of equal capacity and quality.

3.2 DIELECTRIC FITTING APPLICATIONS

- A. Dry Piping Systems: Connect piping of dissimilar metals with the following:
 1. NPS 2 (DN 50) and Smaller: Dielectric unions.
 2. NPS 2-1/2 to NPS 12 (DN 65 to DN 300): Dielectric flanges.
- B. Wet Piping Systems: Connect piping of dissimilar metals with the following:
 1. NPS 2 (DN 50) and Smaller: Dielectric couplings or dielectric nipples.
 2. NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Dielectric nipples.
 3. NPS 2-1/2 to NPS 8 (DN 65 to DN 200): Dielectric nipples or dielectric flange kits.
 4. NPS 10 and NPS 12 (DN 250 and DN 300): Dielectric flange kits.

3.3 PIPING INSTALLATION

- A. Install piping according to the following requirements and utilities Sections specifying piping systems.

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- B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on the Coordination Drawings.
- C. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- D. Install piping to permit valve servicing.
- E. Install piping at indicated slopes.
- F. Install piping free of sags and bends.
- G. Install fittings for changes in direction and branch connections.
- H. Select system components with pressure rating equal to or greater than system operating pressure.
- I. Sleeves are not required for core-drilled holes.
- J. Permanent sleeves are not required for holes formed by removable PE sleeves.
- K. Install sleeves for pipes passing through concrete and masonry walls and concrete floor and roof slabs.
 - 1. Cut sleeves to length for mounting flush with both surfaces.
 - a. Exception: Extend sleeves installed in floors of equipment areas or other wet areas 2 inches (50 mm) above finished floor level.
 - 2. Install sleeves in new walls and slabs as new walls and slabs are constructed.
 - a. Steel Pipe Sleeves: For pipes smaller than NPS 6 (DN 150).
 - b. Steel Sheet Sleeves: For pipes NPS 6 (DN 150) and larger, penetrating gypsum-board partitions.
- L. Verify final equipment locations for roughing-in.
- M. Refer to equipment specifications in other Sections for roughing-in requirements.

3.4 PIPING JOINT CONSTRUCTION

- A. Join pipe and fittings according to the following requirements and utilities Sections specifying piping systems.
- B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

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- D. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.
- E. Welded Joints: Construct joints according to AWS D10.12/D10.12M, using qualified processes and welding operators according to Part 1 "Quality Assurance" Article.
- F. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.
- G. Grooved Joints: Assemble joints with grooved-end pipe coupling with coupling housing, gasket, lubricant, and bolts according to coupling and fitting manufacturer's written instructions.
- H. Soldered Joints: Apply ASTM B 813 water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy (0.20 percent maximum lead content) complying with ASTM B 32.
- I. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8.
- J. Pressure-Sealed Joints: Assemble joints for plain-end copper tube and mechanical pressure seal fitting with proprietary crimping tool to according to fitting manufacturer's written instructions.
- K. Plastic Piping Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:
1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
 2. ABS Piping: Join according to ASTM D 2235 and ASTM D 2661 appendixes.
 3. CPVC Piping: Join according to ASTM D 2846/D 2846M Appendix.
 4. PVC Pressure Piping: Join schedule number ASTM D 1785, PVC pipe and PVC socket fittings according to ASTM D 2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D 2855.
 5. PVC Nonpressure Piping: Join according to ASTM D 2855.
 6. PVC to ABS Nonpressure Transition Fittings: Join according to ASTM D 3138 Appendix.
- L. Plastic Pressure Piping Gasketed Joints: Join according to ASTM D 3139.
- M. Plastic Nonpressure Piping Gasketed Joints: Join according to ASTM D 3212.
- N. Plastic Piping Heat-Fusion Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join according to ASTM D 2657.
1. Plain-End PE Pipe and Fittings: Use butt fusion.
 2. Plain-End PE Pipe and Socket Fittings: Use socket fusion.

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- O. Bonded Joints: Prepare pipe ends and fittings, apply adhesive, and join according to pipe manufacturer's written instructions.

3.5 PIPING CONNECTIONS

- A. Make connections according to the following, unless otherwise indicated:
 - 1. Install unions, in piping NPS 2 (DN 50) and smaller, adjacent to each valve and at final connection to each piece of equipment.
 - 2. Install flanges, in piping NPS 2-1/2 (DN 65) and larger, adjacent to flanged valves and at final connection to each piece of equipment.
 - 3. Install dielectric fittings at connections of dissimilar metal pipes.

3.6 EQUIPMENT INSTALLATION

- A. Install equipment level and plumb, unless otherwise indicated.
- B. Install equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference with other installations. Extend grease fittings to an accessible location.
- C. Install equipment to allow right of way to piping systems installed at required slope.

END OF SECTION 330500

TECHNICAL SPECIFICATIONS

SPECIAL PROVISIONS

Legal Regulation & Responsibility to the Public

(if applicable)

DRAFT SAMPLE

TECHNICAL SPECIFICATIONS

SPECIAL PROVISIONS

Traffic Control

DRAFT SAMPLE

**DEKALB COUNTY
WATERSHED MANAGEMENT**

SPECIAL PROVISION

FAIROAKS ROAD WATER MAIN REPLACEMENT

Traffic Control

SPECIAL PROVISION:

The Contractor shall not install lane closures or move equipment or materials within the project limits that interferes with traffic flow between the hours of 6:00 a.m. to 9:00 a.m. and 4:00p.m. to 7:00p.m., Monday through Friday. Equipment or materials moved on or across the traveled way at other times shall be done in a manner as not to unduly interfere with traffic.

Failure to comply with the working hours as described in this special provision shall result in the assessment of damages in the amount of \$1,000.00 (one thousand dollars) per occurrence.

DRAFT SAMPLE

TECHNICAL SPECIFICATIONS

SPECIAL PROVISIONS

Work Allowance

(if applicable)

DRAFT SAMPLE

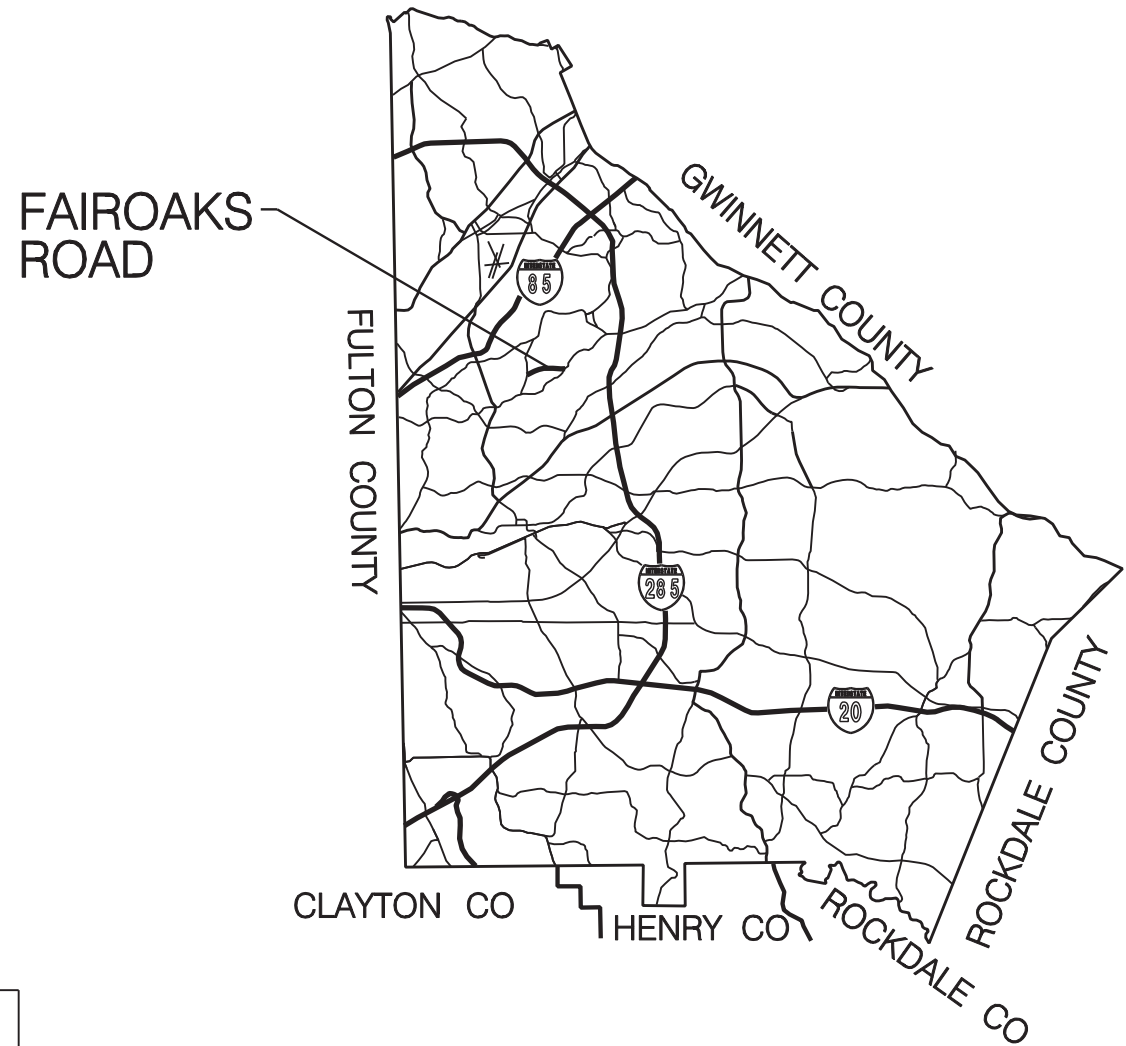
EXHIBIT 3
DRAWINGS

DEKALB COUNTY BOARD OF COMMISSIONERS

FAIROAKS ROAD WATER MAIN REPLACEMENT ITB NO. 16-100790



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", "STATE HIGHWAY DEPARTMENT ", "GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



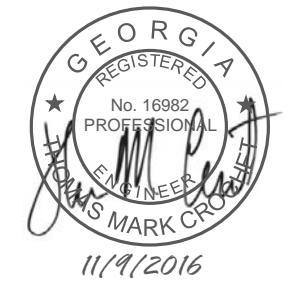
THIS PROJECT IS 100% IN DEKALB COUNTY.
LAND DISTRICT: 18
LAND LOTS: 161, 162

VERTICAL DATUM : NAVD88
COORDINATE ZONE : GAS. COORDINATES SYS. 85 (NAD83)
POSTED SPEED : 25 MPH

NOTE:
THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND DEKALB COUNTY IN ANY WAY. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTION 102.04, 102.05 AND 104.3 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.

McGee Partners, Inc.
www.mcgeepartners.com

LENGTH OF PROJECT	DEKALB COUNTY COUNTY NUMBER 089
	MILES
NET LENGTH OF ROADWAY	0.824
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.824
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.824



PLANS PREPARED BY:
McGee Partners, Inc.
UNDER THE SUPERVISION OF:
THOMAS M. CROCHET, P.E.

	DATE
PRELIMINARY PLANS COMPLETED	9/29/11
FINAL PLANS COMPLETED	11/9/16

DATE	REVISIONS

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2	2.01	INDEX
3-5	4.01-4.03	GENERAL NOTES/PROJECT NOTES
6	5.01	TYPICAL SECTIONS
7-8	6.01-6.02	SUMMARY OF QUANTITIES
9	11.01	CONSTRUCTION LAYOUT SHEETS
10-20	13.01-13.11	CONSTRUCTION PLAN SHEETS
21-25	15.01-15.05	PROFILE SHEETS
26-36	26.01-26.11	SIGNING AND MARKING PLANS
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		W-010 BLOCKING DETAIL - DOWNWARD THRUST 11-07
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		W-022 THRUST RESTRAINT (150 PSI) TIE-ROD INSTALLATION DETAIL 11-07
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39	40.03	W-006 TYPICAL STUB-OUT 11-07
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		W-029 VALVE COLOR AND MARKER DISC 11-07
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			REVISION DATES <table border="1" style="width:100%; height: 40px;"> <tr><td> </td><td> </td><td> </td></tr> </table>				FAIROAKS ROAD WATER MAIN REPLACEMENT INDEX													
	McGee Partners, Inc. www.mcgeepartners.com			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DESIGNED</td> <td>DRAWN</td> <td>CHECKED</td> <td>DATE</td> <td>SCALE</td> <td>JOB NO.</td> <td>SHEET</td> <td>REV.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>3006018</td> <td>2-01</td> <td> </td> </tr> </table>	DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.						3006018	2-01	
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.													
					3006018	2-01														

GENERAL NOTES

EXISTING UTILITIES

1. THE FOLLOWING UTILITY OWNERS MAY HAVE FACILITIES THAT CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

NAME OF UTILITY OWNER	UTILITY
AGL RESOURCES	GAS
ZAYO GROUP	FIBER OPTICS
AT&T	PHONE
COMCAST	CABLE
GEORGIA POWER COMPANY	ELECTRIC
DEKALB COUNTY WATERSHED MANGEMENT	WATER & SEWER



THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL COORDINATE WORK WITH THE UTILITY COMPANIES.

2. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE, BASED ON THE BEST AVAILABLE INFORMATION AND MAY NOT REFLECT ALL FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. FOR UTILITY LOCATES CONTACT: GEORGIA 811 BY PHONE (811 OR 1-800-282-7411) AT LEAST 48 HOURS (TWO BUSINESS DAYS) PRIOR TO EXCAVATION.
3. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY DELAY OR DAMAGE CAUSED BY UTILITY FACILITIES, OBSTRUCTION, OR ANY OTHER ITEM NOT BEING REMOVED OR RELOCATED IN ADVANCE OF THIS WORK.

SPECIFICATIONS

4. ANY REFERENCE TO THE "DEPARTMENT" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT (DWM), AND REFERENCES TO THE "DEPARTMENT'S SPECIFICATIONS" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS (2009 EDITION, VERSION 1.0), THE PROJECT SPECIFICATIONS AND THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, CURRENT EDITION.
5. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS (2009 EDITION, VERSION 1.0).
6. TO PURCHASE A COPY OF THE ABOVE-MENTIONED DESIGN STANDARDS, PLEASE CALL (770) 414-2383 OR (770) 621-7272.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFORM WITH ALL REQUIREMENTS OF THE SPECIFICATIONS, ESPECIALLY AS THEY RELATE TO COOPERATING WITH THE UTILITY OWNERS AND THE EXISTING UTILITY LOCATIONS THAT EXIST ON THE SITE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH ANY WORK TO BE PERFORMED BY THE UTILITY OWNERS OR OTHERS IN THE RIGHT-OF-WAY, AND ARRANGE A SCHEDULE OF OPERATIONS THAT WILL ALLOW FOR COMPLETION OF THIS PROJECT WITHOUT ANY DELAY.
9. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY DELAY OR DAMAGE CAUSED BY UTILITY FACILITIES, OBSTRUCTION, OR ANY OTHER ITEM NOT BEING REMOVED OR RELOCATED IN ADVANCE OF THIS WORK.
10. REFERENCES IN THE PLANS TO A "OPL NUMBER" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION'S QUALIFIED PRODUCT LIST (OPL), AS PUBLISHED ON THE GEORGIA DEPARTMENT OF TRANSPORTATION'S WEBSITE. THE PRODUCT TO BE INSTALLED SHALL BE LISTED UNDER THE RESPECTIVE "OPL NUMBER."
11. ALL REFERENCES TO "OR EQUAL" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN "OR APPROVED EQUAL." THE ENGINEER SHALL BE RESPONSIBLE FOR APPROVING ALL "EQUALS."
12. REFERENCES IN THE PLANS TO A SPECIFICATION NUMBER OR SPECIAL PROVISION NUMBER SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, 2013 EDITION, AS MODIFIED BY THE DEPARTMENT'S CURRENT SUPPLEMENTAL SPECIFICATIONS AND ANY CURRENT SHELF SPECIAL PROVISIONS PUBLISHED ON THE GEORGIA DEPARTMENT OF TRANSPORTATION'S WEBSITE. REFERENCES IN THE PLANS TO THE FOLLOWING SPECIFICATION OR SPECIAL PROVISION NUMBERS SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN SHELF SPECIAL PROVISIONS:

- 150 SPECIAL PROVISIONS TRAFFIC CONTROL
- 161 CONTROL OF SOIL EROSION AND SEDIMENTATION
- 163 MISCELLANEOUS EROSION CONTROL ITEMS
- 165 MAINTENANCE OF TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES
- 167 WATER QUALITY MONITORING
- 171 SILT FENCE
- 700 GRASSING
- 882 LIME
- 891 FERTILIZERS
- 894 FENCING
- 919 RAISED PAVEMENT MARKERS

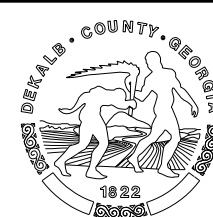
TRAFFIC CONTROL

13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PERMITTING AT LEAST ONE LANE OF TRAFFIC TO MOVE THROUGH THE CONSTRUCTION SITE. ALL FLAGMEN, WARNING SIGNS, BARRICADES AND LIGHTS NECESSARY TO CONTROL TRAFFIC AND PROTECT THE PUBLIC SHALL BE FURNISHED BY THE CONTRACTOR AND INCLUDED IN THE APPROPRIATE LUMP SUM TRAFFIC CONTROL COST LINE ITEM. TEMPORARY TRAFFIC CONTROL AND TRAFFIC CONTROL DEVICES WILL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), CURRENT EDITION. IN ADDITION, PROVISIONS OF GDOT'S SHELF SPECIAL PROVISION SECTION 150 - TRAFFIC CONTROL MUST BE MET.
14. THE CONTRACTOR SHALL RESTRICT WORK HOURS TO THE PERIOD FROM 7:00 AM TO 7:00 PM MONDAY THROUGH SATURDAY.
15. THE CONTRACTOR SHALL NOT INSTALL LANE CLOSURES, PACE TRAFFIC OR MOVE EQUIPMENT OR MATERIALS ON THE ROADWAY BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY.

16. TRAFFIC LOOPS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OPERATIONAL WITHIN 48 HOURS. FAILURE IN HAVING REPLACEMENT TRAFFIC LOOPS OPERATIONAL WITHIN THE TIME SPECIFIED WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES PER THE CONTRACT.

WATERLINE INSTALLATION

17. CONTRACTOR SHALL NOTIFY THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR AT (404) 371-2135 48 HOURS PRIOR TO START OF CONSTRUCTION.
18. IN CASE OF EMERGENCY, CONTACT THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT AT (404) 270-6423 (24 HOURS A DAY)
19. THIS SITE CAN BE USED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOOD OR ADVERSE SOIL OR FOUNDATION CONDITIONS.
20. THE CONTRACTOR WILL COORDINATE WITH COUNTY COMMUNICATIONS OFFICE TO NOTIFY RESIDENTS OF WORK TO BE PERFORMED AND WATER SHUT OFFS. CONTRACTOR MUST PROVIDE SEVEN (7) DAYS NOTICE TO COUNTY COMMUNICATIONS OFFICE IN ADVANCE OF ANY DISRUPTION OF SERVICE TO RESIDENTS. THE COUNTY WILL PROVIDE NOTICES TO RESIDENTS. THE CONTRACTOR SHALL PROVIDE ADDRESSES OF AFFECTED RESIDENTS.
21. THE CONTRACTOR SHALL REMOVE RECENTLY INSTALLED, OUT-OF-SERVICE WATERLINE AND INSTALL NEW WATERLINE, TYPICALLY IN THE SAME TRENCH. REMOVAL OF THE WATERLINE WILL BE PAID FOR UNDER THE PAY ITEM "REMOVE WATER MAIN," AND WILL COVER ALL COSTS TO REMOVE WATER MAIN, FITTINGS, VALVES, SERVICE LINES, RESTRAINTS AND THRUST BLOCKS. UNDER THE SAME PAY ITEM, THE CONTRACTOR SHALL CLEAN AND DELIVER THE RECOVERED WATER MAIN, FITTINGS AND VALVES TO DEKALB COUNTY'S STORAGE FACILITY AT 1580 ROADHAVEN DRIVE.
22. ALL FIRE HYDRANTS TO BE REMOVED SHALL BE CLEANED AND RETURNED TO DEKALB COUNTY'S STORAGE FACILITY AT 1580 ROADHAVEN DRIVE.
23. DELETED.
24. ALL CONCRETE AND/OR ASPHALT DRIVEWAYS ARE TO BE FREE BORED UNLESS OTHERWISE NOTED FOR WATERLINES 12 INCH DIAMETER AND LESS. THE COST FOR FREE BORE SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.
25. THE COST FOR REMOVAL AND DISPOSAL OF EXISTING ROADWAY MATERIAL AND UNSUITABLE SOILS SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN. ALL MATERIALS SHALL BE REMOVED FROM THE PROJECT AND DISPOSED OF IN AN APPROVED LANDFILL OR PROPERLY RECYCLED.
26. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUITABLE MATERIAL IN THE TRENCH AND OVER THE PIPE, AT NO ADDITIONAL COST (SEE DETAILS). THE COST OF SAWCUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL AND TRENCH CAP SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN. NO SEPARATE MEASUREMENT WILL BE MADE, AND NO CLAIMS WILL BE CONSIDERED FOR EXTRA COST.
27. ALL FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING MAXIMUM DRY DENSITY, STANDARD PROCTOR:
- A. UNPAVED AREAS OUTSIDE OF ROADWAY RIGHT-OF-WAY - 90% FOR ALL LIFTS
 - B. UNPAVED AREAS OF ROADWAY RIGHT-OF-WAY - 95% FOR ALL LIFTS
 - C. PAVED AREAS - 98% FOR ALL LIFTS
28. PLACE MATERIAL FROM EXCAVATION AWAY FROM DRIVEWAY CROSS DRAINS TO PREVENT OBSTRUCTION OF STORM DRAINAGE FLOW. NO EXCAVATION MATERIAL TO BE STOCKPILED IN GRASS AREAS.
29. NO SPOILS OR EXCAVATED MATERIAL SHALL BE PLACED ON THE PAVEMENT OR BEYOND THE CURB OR EDGE OF PAVEMENT AT ANY TIME DURING CONSTRUCTION. PAVEMENT SHALL BE CLEANED BY SWEEPING EACH DAY EXCAVATION OCCURS.
30. CONTRACTOR MAY STRING PIPE AS NECESSARY ALONG ROADWAY BETWEEN CURB/EDGE OF PAVEMENT AND RIGHT-OF-WAY. THE CONTRACTOR MAY NOT STRING MORE PIPE THAN WILL BE PLACED THAT DAY.
31. CONTRACTOR SHALL FILL IN ALL TRENCHES AT THE END OF EACH DAY TO ALLOW LOCAL TRAFFIC ACCESS. TRENCHES SHALL BE COVERED WITH PLATES IF PAVEMENT HAS NOT BEEN REPLACED.
32. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY UTILITY REQUIRED TO AVOID ANY PART OF THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.
33. FOR TAPS SMALLER THAN 20 INCHES, THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT WILL FURNISH THE TAPPING MACHINE, PROVIDE FOR WELDING, AND DO THE ACTUAL TAPPING OF THE MAIN.
34. ALL PLUGS SHALL BE INSTALLED PER END OF WATER LINE PLUG DETAILS.
35. ROCK EXCAVATION WILL NOT BE MEASURED SEPARATELY FOR COMPENSATION. COST SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.
36. FITTINGS SHALL BE INCLUDED IN THE COST OF THE WATER PIPE.
37. ALL BENDS, PLUGS AND TEES REQUIRE THRUST BLOCKS AND SHALL BE INSTALLED PER THRUST BLOCKING DETAILS. THE THRUST BLOCKS ARE NOT SHOWN ON DRAWINGS FOR CLARITY.
38. MINIMUM VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES IS 18 INCHES, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.
39. MINIMUM HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER AND SEWER LINES IS 10 FEET, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.
40. ALL WATER MAINS SHALL BE PRESSURE TESTED, DISINFECTED AND PASS THE BACTERIA TEST PRIOR TO CUSTOMER TIE IN. NO WATERLINE INSTALLATION WILL BE PAID FOR UNTIL LINE HAS SUCCESSFULLY BEEN PRESSURE AND BAC-T TESTED.
41. FIRE HYDRANT LOCATIONS CAN BE ADJUSTED IN FIELD ONLY WHEN DIRECTED OR APPROVED BY THE ENGINEER.
42. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER.



REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

GENERAL NOTES

GENERAL NOTES (CONTINUED)

- 43. THE CONTRACTOR SHALL MAINTAIN RECORDS AS WORK PROGRESSES AND SUBMIT DIMENSIONAL SKETCHES WITH MONTHLY PAY ESTIMATES. AN AS-BUILT SET OF CONSTRUCTION PLANS IN HARD COPY AND ELECTRONIC FORMAT (PDF AND AUTOCAD OR MICROSTATION) SHALL BE SUBMITTED WITH FINAL PAY REQUEST. CONTRACTOR TO OBTAIN GPS COORDINATES AND ADD TO AS-BUILTS AT ALL BENDS, TEES, VALVES, FIRE HYDRANTS, PIPE DEFLECTIONS, AND PLUGS. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- 44. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE FOR THE OWNER AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY COUNTY INSPECTORS.

SERVICE LINE INSTALLATION

- 45. ALL SERVICES SHALL BE CHANGED OVER TO THE NEW WATER MAIN IN AREAS WHERE THE WATER MAIN IS ABANDONED. PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CUTTING OFF THEIR SERVICE.
- 46. ALL SERVICE LINES SHALL BE 1" DIAMETER. WHERE TWO METERS ARE LOCATED SIDE BY SIDE, THE CONTRACTOR SHALL PROVIDE A SINGLE 1" DIAMETER SERVICE LINE FROM THE WATER MAIN WITH A WYE BRANCHING TO 3/4" DIAMETER SERVICE LINES TO EACH METER. THE WYE SHALL BE PLACED IN CLOSE PROXIMITY TO THE METERS.
- 47. ALL SERVICE LATERALS SHALL BE FREE BORED. THE FREE BORE SHALL BE INCLUDED IN THE BID PRICE FOR "WATER SERVICE LINE." MEASUREMENT AND PAYMENT WILL BE MADE FOR IN-PLACE SERVICE LINES ONLY.
- 48. THE ENGINEER SHALL DETERMINE WHETHER EXISTING WATER METERS SHALL BE REPLACED. ALL NEW METERS SHALL BE SUPPLIED BY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. ANY METERS THAT ARE REMOVED SHALL BE RETURNED TO DEKALB COUNTY'S STORAGE FACILITY AT 1580 ROADHAVEN DRIVE.
- 49. ANY METERS OR BACKFLOW DEVICES REMOVED DURING CONSTRUCTION SHALL BE REMOVED, RELOCATED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE RESIDENTIAL WATER METER INSTALLATION DETAIL AND PAID FOR UNDER THE BID ITEM FOR "REPLACE WATER METER." METER BOXES REPLACED WHEN DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE BID PRICE FOR "REPLACE WATER METER."
- 50. ALL SERVICE CHANGE OVERS SHALL HAVE NEW MATERIAL FROM WATER MAIN TO METER, WHICH INCLUDES:
 - A. CORPORATION STOP: FORD F-600-4-NL, MUELLER H-15000N OR H-10003N, OR JAMES JONES E-1500 OR E-89 ONLY.
 - B. CURB STOP: FORD B21-233W-NL OR B21-334W-NL, A.Y. MCDONALD 76102-W, OR JAMES JONES E-1901 ONLY.
 - C. COPPER SERVICE LINE: TYPE 'K' IN ACCORDANCE WITH ASTM B88.
 ALL FITTINGS AND PIPE SHALL BE NO LEAD. FITTINGS SHALL BE INCLUDED IN THE BID PRICE FOR "WATER SERVICE LINE."

WATERLINE ABANDONMENT

- 51. ALL CUT & PLUGS OF EXISTING WATER MAINS, INCLUDING ABANDONMENT OF VALVE BOXES, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. NO SEPARATE PAYMENT FOR CUT AND PLUGS OR ASSOCIATED PAVEMENT REPAIR WILL BE MADE.
- 52. FOR WATER MAINS TO BE ABANDONED, CUT AND REMOVE A SMALL SECTION OF PIPE, PLUG BOTH SECTIONS, AND INSTALL THRUST BLOCK WHERE PLUG(S) MAY BE PRESSURIZED. ABANDONED WATER MAIN WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
- 53. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL FLOWABLE FILL IN SECTIONS OF PVC PIPE UNDER PAVEMENT AND ALL ASBESTOS CEMENT PIPE TO BE ABANDONED. FLOWABLE FILL SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH "SECTION 600 - CONTROLLED LOW STRENGTH FLOWABLE FILL" OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, 2013 EDITION. MEASUREMENT AND PAYMENT WILL BE MADE BY THE LINEAR FEET OF PIPE ABANDONED AND FILLED WITH FLOWABLE FILL.
- 54. ALL ABANDONED VALVES SHALL HAVE THE LID AND TOP SECTION OF THE VALVE BOX REMOVED, AND THE HOLE SHALL BE FILLED WITH CONCRETE FROM THE VALVE TO THE ROADWAY SURFACE. NO SEPARATE PAYMENT FOR VALVE ABANDONMENT WILL BE MADE.

ROADWAY

- 55. PAVEMENT REMOVED SHALL BE REPLACED BY CONCRETE UNTIL MILLING AND RESURFACING IS DONE. THIS WILL BE INCLUDED IN THE PRICE BID FOR WATER MAIN. AFFECTED ROADWAY SURFACES SHALL BE PLATED OR FLUSH WITH ADJACENT PAVEMENT AT ALL TIMES.
- 56. STORM DRAIN STRUCTURES, VALVES, MANHOLES, ETC. SHALL BE ADJUSTED TO GRADE AS DIRECTED BY ENGINEER. COST OF ADJUSTMENTS SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT OVERLAY.
- 57. OPEN CONSTRUCTION PITS SHALL BE BACKFILLED AND CLOSED AT THE END OF EACH WORKING DAY. EXCEPTIONS MAY BE APPROVED BY THE ENGINEER. ANY ROAD CUT THAT IS NOT POURED BACK FLUSH BY THE END OF DAY MUST BE COVERED BY A STEEL PLATE.
- 58. STEEL PLATES SHALL BE SECURED TO THE PAVEMENT BY PLACING TEMPORARY ASPHALT AROUND ALL EDGES TO ENSURE THAT NO DAMAGE TO VEHICLES WILL OCCUR. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO VEHICLES CAUSED BY STEEL PLATES. CONTRACTOR SHALL INSPECT PLATES TWICE DAILY TO ENSURE THEY REMAIN SECURED TO THE PAVEMENT.
- 59. CONTRACTOR SHALL MILL AND REPAVE ALL LANES OF ROADWAY AS DESIGNATED BY THE LIMITS OF OVERLAY SHOWN ON THE PLANS. THIS WORK WILL INCLUDE MILLING THE TOP OF THE CONCRETE CAP OVER THE WATERLINE TRENCHES DURING THE MILLING OF THE ENTIRE ROADWAY.
- 60. ALL MILLED SURFACES SHALL BE COVERED WITHIN 7 DAYS. FAILURE TO COVER MILLED SURFACES WITH ASPHALTIC CONCRETE MIX AS REQUIRED BY THE APPLICABLE TYPICAL SECTION SHALL BE CONSIDERED A FAILURE TO COMPLY WITH THE REQUIREMENTS OF SECTION 150 TRAFFIC CONTROL AND SHALL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES PER THE CONTRACT.

PRESERVATION OF PROPERTY AND IMPROVEMENTS

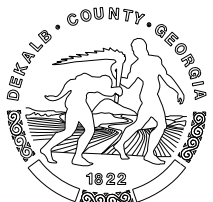
- 61. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO RECORD A VIDEO WITHIN THE RIGHT OF WAY AND ALL ADJACENT AREA, INCLUDING DRIVEWAYS, SIDEWALKS, MAILBOXES AND ANYTHING THAT ALREADY LOOKS BROKEN.
- 62. NO SPOILS SHALL BE PLACED BEYOND THE CURB OR EDGE OF PAVEMENT AT ANY TIME DURING CONSTRUCTION.
- 63. EVERY DISTURBED, UNPAVED AREA SHALL BE SODDED IN KIND, INCLUDING FESCUE GRASS AREA. THE WORK SHALL BE PERFORMED BY A LANDSCAPE SPECIALIST SKILLED IN THIS TYPE OF WORK. MATERIALS SHALL NOT BE STORED ON ANY GRASSED AREAS.
- 64. IF A MAILBOX MUST BE TAKEN DOWN DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE IT OR TEMPORARILY RELOCATE IT SO AS NOT TO CAUSE ANY DISRUPTION OF MAIL DELIVERY. THE WORK WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. THE COST SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.
- 65. ANY SIGNS, TREES, MAILBOXES, FENCE, WALLS OR SPRINKLER SYSTEM WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR UNLESS NOTED OTHERWISE AT NO ADDITIONAL COST TO THE COUNTY. COST WILL BE INCLUDED IN OTHER WORK.
- 66. CURBS, SIDEWALKS, HANDICAP RAMPS, DRIVEWAYS, ETC. DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT PROPER GRADE AND CONDITION. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION UNLESS PRIOR APPROVAL BY ENGINEER IS PROVIDED.
- 67. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT DRIVEWAYS, SIDEWALKS, CURBS AND CATCH BASINS DURING CONSTRUCTION (TAKE A VIDEO).
- 68. ALL EXISTING DRAINAGE PIPES AND STRUCTURES WITHIN THE PROJECT SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.
- 69. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY STORM DRAINAGE, SANITARY SEWER, POTABLE WATER, OR OTHER UTILITY INFRASTRUCTURE DAMAGED AS A RESULT OF THE PROPOSED WORK AT NO ADDITIONAL COST TO THE DEPARTMENT OR UTILITY OWNER.
- 70. THE CONTRACTOR SHALL PROTECT ALL POST-MOUNTED STREET SIGNS WITHIN THE PROJECT LIMITS. IF A STREET SIGN MUST BE MOVED DURING THE COURSE OF CONSTRUCTION, IT MUST BE RESET AT THE END OF EACH WORKDAY. ALL LABOR AND MATERIALS REQUIRED TO SATISFY THIS REQUIREMENT SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL.
- 71. ALL SIGNS AND LIGHT POLES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL REMAIN UNLESS PLANS OR PROJECT ENGINEER INDICATE OTHERWISE. ALL WORK ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL.
- 72. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL LOOP DETECTORS AFFECTED BY CONSTRUCTION.

PERMITS

- 73. A NOTICE OF INTENT (NOI) WILL NOT BE REQUIRED FOR THIS PROJECT SINCE DISTURBED AREA IS LESS THAN ONE ACRE, AS PER GA EPD PERMIT NO. GARI00002.
- 74. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES AND SHALL BE RESPONSIBLE FOR ALL FEES INVOLVED WITH OBTAINING PERMITS.

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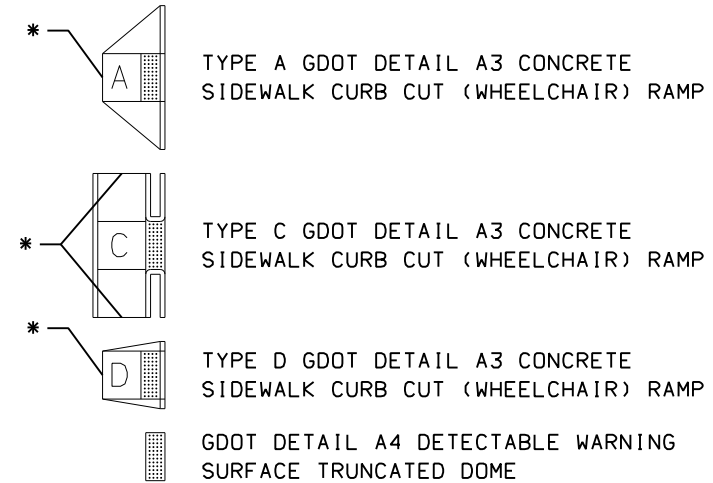
REVISION DATES		

FAIROAKS ROAD WATER MAIN REPLACEMENT									
GENERAL NOTES									
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.		
					3006018	4-02			

SIGNING AND MARKING GENERAL NOTES

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
4.
 - A. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARDRAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
 - B. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL DETAILS.
8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
15. CONTRACTOR SHALL, AS REQUESTED BY THE ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THE INCLUDED SIGN PLANS
16. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), CURRENT EDITION AND GA DOT STANDARD SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.
17. ALL WORK WITHIN GA DOT RIGHT OF WAY SHALL CONFORM TO GA DOT STANDARDS AND SPECIFICATIONS FOR ROADS AND BRIDGES.
18. ALL SIDEWALKS AND HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GA DOT DETAILS STANDARDS AND SPECIFICATIONS AND SHALL MEET ADA REQUIREMENTS.
19. ALL PAVEMENT MARKINGS, STRIPES, ARROWS, WORDS, ETC. SHALL BE HOT APPLIED THERMOPLASTIC UNLESS INDICATED OTHERWISE.
20. ALL SIGNING, MARKING, AND TRAFFIC CONTROL SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), CURRENT EDITION.
21. WATER BLASTING IS THE REQUIRED METHOD OF STRIPING ERADICATION UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
22. ALL EXISTING STOP BARS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE RESTRIPE IN ACCORDANCE WITH CURRENT GDOT STANDARDS.

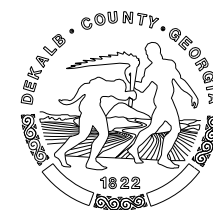
SIDEWALK CURB CUT RAMP LEGEND



* LIMITS OF PAYMENT FOR RAMP, ITEM NO. 441-7011

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REVISION DATES

FAIROAKS ROAD
WATER MAIN REPLACEMENT

GENERAL NOTES

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
					3006018	4-03	

TRAFFIC CONTROL PROJECT LUMP SUM
--

WATERLINE REPLACEMENT													
	(A) WATER MAIN, 6 IN	(A) WATER MAIN, 8 IN	GATE VALVE 6 IN	GATE VALVE 8 IN	(B) INSERTION VALVE 6 IN	(B) TAPPING SLEEVE & VALVE ASSEMBLY 8 IN X 6 IN	(B) TAPPING SLEEVE & VALVE ASSEMBLY 8 IN X 8 IN	(C) REMOVE WATER MAIN, 12 IN OR LESS	(D) FLOWABLE FILL	REPLACE WATER METER INCL. BOX 3/4 & 1 IN	(E) WATER SERVICE LINE, 3/4 & 1 IN	FIRE HYDRANT	(F) REMOVE EXISTING FIRE HYDRANT
	LF	LF	EA	EA	EA	EA	EA	LF	LF	EA	LF	EA	EA
FAIROAKS ROAD	410	4770	20	15	3	1	1	4900	800	56	1700	13	21

SUMMARY OF SURFACING QUANTITIES															
	ROADWAY PAVING - DEEP PATCHING AND OVERLAY										CURB & GUTTER				
	ASPHALTIC CONCRETE														
	(G) RECYCLED ASPH CONC, 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	(G) RECYCLED ASPH CONC, 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	(G) RECYCLED ASPH CONC, 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPHALTIC CONCRETE LEVELING INCL BITUM MATL & H LIME	(H) RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	(G) GRADED AGGREGATE BASE COURSE, INCL MATL	BITUMINOUS TACK COAT	MILL ASPH CONC PVMT VARIABLE DEPTH	(G) CLASS B CONC. BASE OR PVMT WIDENING	(I) CONCRETE HEADER CURB, 6 IN, TP2	(I) 8 IN X 30 IN CONC CURB & GUTTER TYPE 2	(I) RESET GRANITE CURB	(I) CONCRETE VALLEY GUTTER 6 INCH	(I) CONCRETE SIDEWALK 4 INCH	(I) CONCRETE WHEELCHAIR RAMP
TN	TN	TN	TN	TN	TN	GL	SY	CY	LF	LF	LF	SY	SY	EA	
FAIROAKS ROAD	1660	50	150	110	250	490	700	15040	120	200	200	150	20	200	4

NOTES FOR QUANTITY ITEMS - REFERENCED BY LETTER IN PARENTHESES ABOVE DESCRIPTION

BARRIER FENCE	
	BARRIER FENCE (ORANGE), 4 FT
LOCATION	LF
FAIROAKS ROAD	260

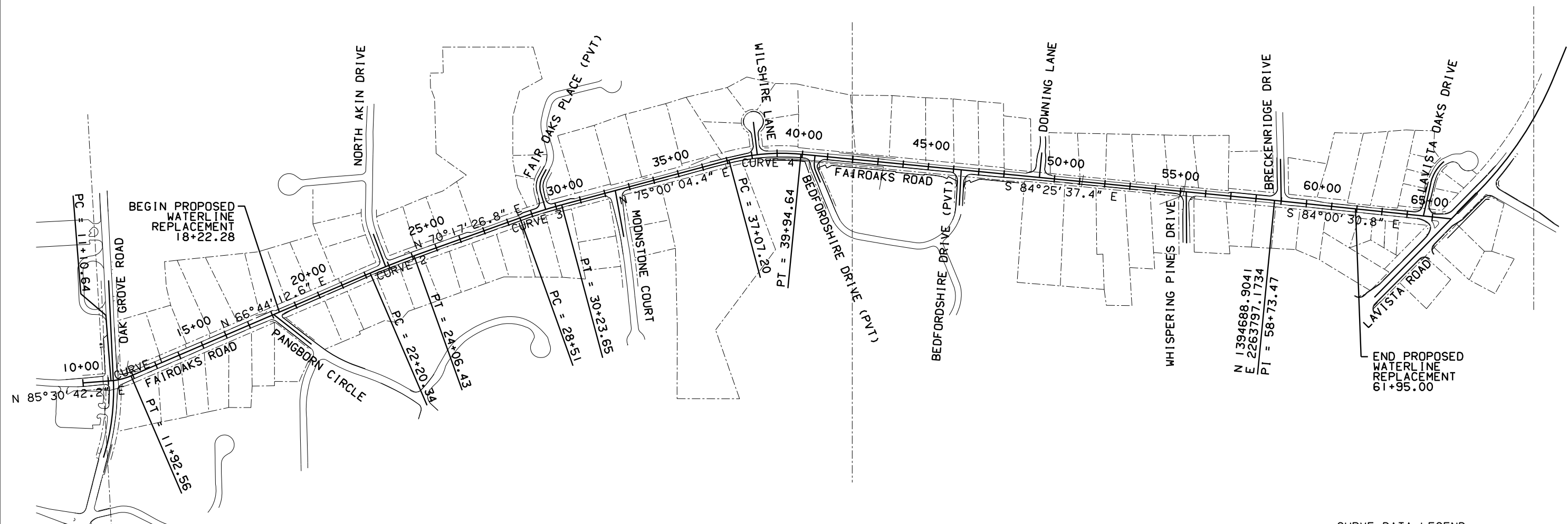
MISC ADJUST TO GRADE	
	(I) ADJUST CATCH BASIN TO GRADE
LOCATION	EA
FAIROAKS ROAD	2

CHANGEABLE MESSAGE SIGN	
	(J) CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3
LOCATION	EA
FAIROAKS ROAD	2

- A. THE FOLLOWING ITEMS AND THEIR INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN: PIPE, FITTINGS, BENDS, PLUGS, THRUST BLOCKS, RESTRAINTS, BEDDING, BACKFILL, SAWCUT OF PAVEMENT, CONCRETE CAP, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS, PRESSURE TEST, DISINFECTION AND OTHER ITEMS INCIDENTAL TO THE INSTALLATION OF WATER MAIN. THE COST FOR MAINTAINING AND PROVIDING RECORD DRAWINGS, INCLUDING OBTAINING GPS COORDINATES, SHALL ALSO BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- B. THE FOLLOWING ITEMS SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER: INSERTION VALVES AND TAPPING SLEEVE AND VALVE ASSEMBLY. THE PRICE BID FOR THESE ITEMS SHALL INCLUDE THRUST BLOCKS, RESTRAINTS, BEDDING, BACKFILL, SAWCUT OF PAVEMENT, CONCRETE CAP, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS, AND OTHER ITEMS INCIDENTAL TO THEIR INSTALLATION.
- C. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR REMOVE WATER MAIN: SAWCUT OF PAVEMENT; REMOVAL OF CONCRETE CAP AND PAVEMENT; REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS; REMOVAL AND CLEANING OF RECENTLY INSTALLED WATER MAIN, FITTINGS AND VALVES; REMOVAL OF SERVICE LINES; REMOVAL AND DISPOSAL OF THRUST BLOCKS AND RESTRAINTS; DELIVERY OF CLEANED WATER MAIN, FITTINGS AND VALVES TO DEKALB COUNTY'S STORAGE FACILITY; AND OTHER ITEMS INCIDENTAL TO THE REMOVAL OF EXISTING WATER MAIN.
- D. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL FLOWABLE FILL IN SECTIONS OF PVC PIPE UNDER PAVEMENT AND ALL ASBESTOS CEMENT PIPE TO BE ABANDONED. THE PRICE BID FOR FLOWABLE FILL SHALL INCLUDE ALL ITEMS OF WORK NECESSARY TO ABANDON EXISTING WATER MAINS AS DIRECTED BY THE ENGINEER.
- E. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR WATER SERVICE LINE: COPPER SERVICE LINE, WATER MAIN TAP, CORPORATION STOP, CURB STOP, AND FREE BORE UNDER ALL PAVEMENTS, SIDEWALKS AND CURBING.
- F. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR REMOVE FIRE HYDRANT: REMOVAL AND CLEANING OF THE FIRE HYDRANT, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS, REMOVAL AND DISPOSAL OF THRUST BLOCKS AND RESTRAINTS, DELIVERY OF CLEANED FIRE HYDRANT TO DEKALB COUNTY'S STORAGE FACILITY, AND OTHER ITEMS INCIDENTAL TO THE REMOVAL OF EXISTING FIRE HYDRANTS.
- G. THIS BID ITEM IS INCLUDED FOR PAVEMENT PATCHING TO BE PERFORMED AT THE DIRECTION OF THE ENGINEER. THE PRICE BID FOR THESE ITEMS SHALL INCLUDE THE FOLLOWING WHEN NECESSARY TO INSTALL THE PATCH: SAWCUT OF PAVEMENT; REMOVAL AND DISPOSAL OF PAVEMENT, BASE AND SUBBASE; COMPACTION OF SUBBASE; PLACEMENT AND COMPACTION OF PAVING MATERIAL. DEEP PATCHING SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 400 AND 402 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, CURRENT EDITION.
- H. THE PRICE BID FOR ASPHALTIC CONCRETE PATCHING SHALL INCLUDE MILLING OF THE EXISTING PAVEMENT AND DISPOSAL OF THE MILLINGS. NO SEPARATE PAYMENT FOR MILLING WILL BE MADE.
- I. THE FOLLOWING ITEMS SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER: HEADER CURB, CURB AND GUTTER, RESET GRANITE CURB, VALLEY GUTTER, SIDEWALK, WHEELCHAIR RAMPS, ADJUST CATCH BASIN TO GRADE. THE PRICE BID FOR THESE ITEMS SHALL INCLUDE REMOVAL AND DISPOSAL OF EXISTING MATERIALS.
- J. CHANGEABLE MESSAGE SIGN(S) TO BE PROVIDED AND UTILIZED AS DIRECTED BY THE ENGINEER.

			REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																FAIROAKS ROAD WATER MAIN REPLACEMENT SUMMARY OF QUANTITIES															
		REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DESIGNED</td> <td>DRAWN</td> <td>CHECKED</td> <td>DATE</td> <td>SCALE</td> <td>JOB NO.</td> <td>SHEET</td> <td>REV.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td>NO SCALE</td> <td>3006018</td> <td>6-01</td> <td> </td> </tr> </table>	DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.					NO SCALE	3006018	6-01	
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.																											
				NO SCALE	3006018	6-01																												

CURVE 1	
PI STA =	11+51.97
N =	1393979.1936
E =	2259243.4313
DELTA =	18°46'29.7" LT
D =	22°55'05.9"
T =	41.33'
L =	81.92'
R =	250.00'
E =	3.39'
SE =	N/A



CURVE 2	
PI STA =	23+13.41
N =	1394438.2056
E =	2260311.1336
DELTA =	3°33'14.3" RT
D =	1°54'35.5"
T =	93.07'
L =	186.08'
R =	3000.00'
E =	1.44'
SE =	N/A

CURVE 3	
PI STA =	29+37.37
N =	1394648.6539
E =	2260898.5951
DELTA =	4°42'37.6" RT
D =	2°43'42.1"
T =	86.37'
L =	172.65'
R =	2100.00'
E =	1.78'
SE =	N/A

CURVE 4	
PI STA =	38+52.49
N =	1394885.5094
E =	2261782.6271
DELTA =	20°35'11.0" RT
D =	7°09'43.1"
T =	145.29'
L =	287.44'
R =	800.00'
E =	13.09'
SE =	N/A

CURVE DATA LEGEND

PI STA = POINT OF TANGENT INTERSECTION STATION
 N = NORTHING COORDINATE
 E = EASTING COORDINATE
 DELTA = DEFLECTION ANGLE OF TANGENTS
 D = DEGREE OF CURVE
 T = TANGENT LENGTH
 L = LENGTH OF CURVE
 R = RADIUS OF CURVE
 E = EXTERNAL DISTANCE FROM PI TO MIDPOINT OF CURVE
 SE = SUPERELEVATION RATE

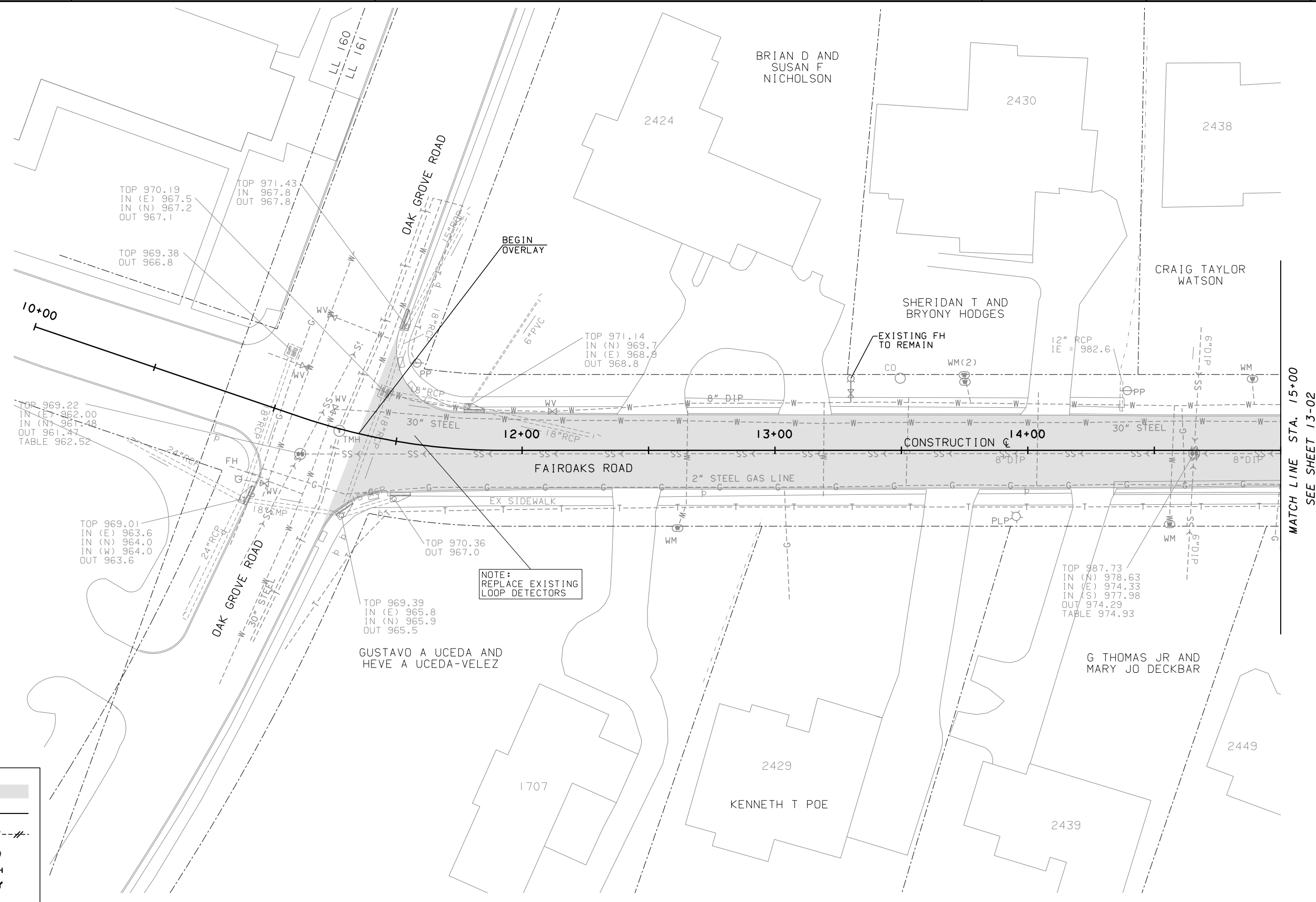
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REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
CONSTRUCTION LAYOUT					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
					3006018
SHEET	REV.				
11-01					



MATCH LINE STA. 15+00
 SEE SHEET 13-02

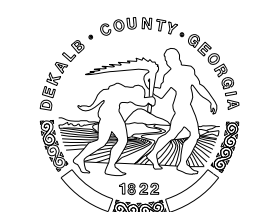
LEGEND	
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

SCALE IN FEET

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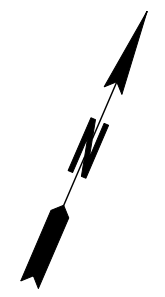
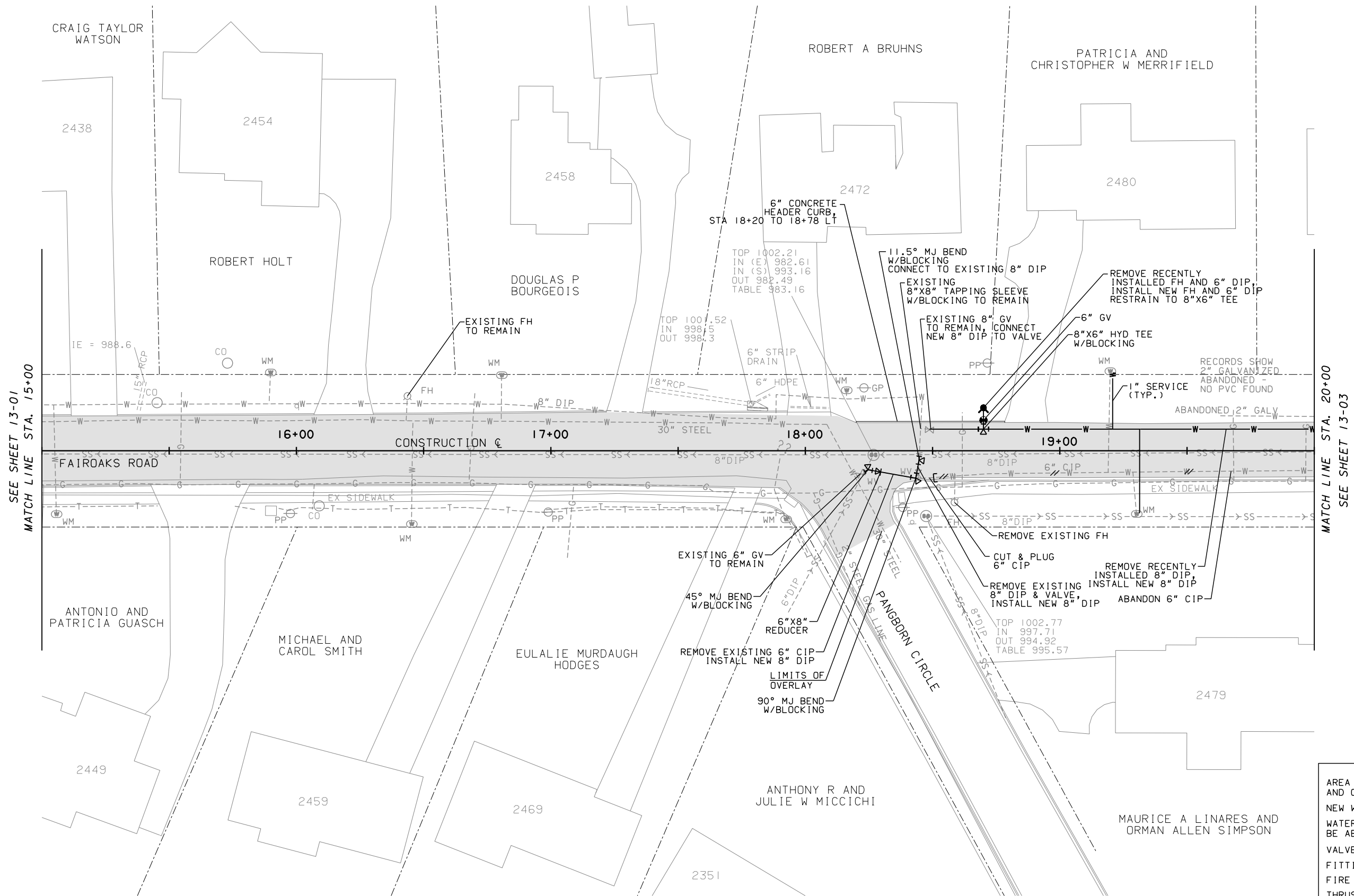


REVISION DATES	

FAIROAKS ROAD
 WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-01	



SEE SHEET 13-01
 MATCH LINE STA. 15+00

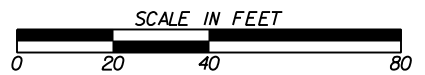
MATCH LINE STA. 20+00
 SEE SHEET 13-03

LEGEND

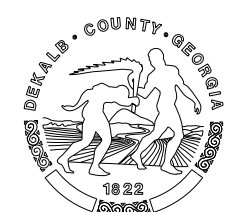
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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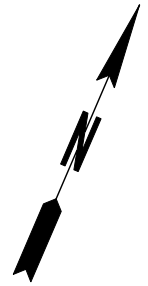
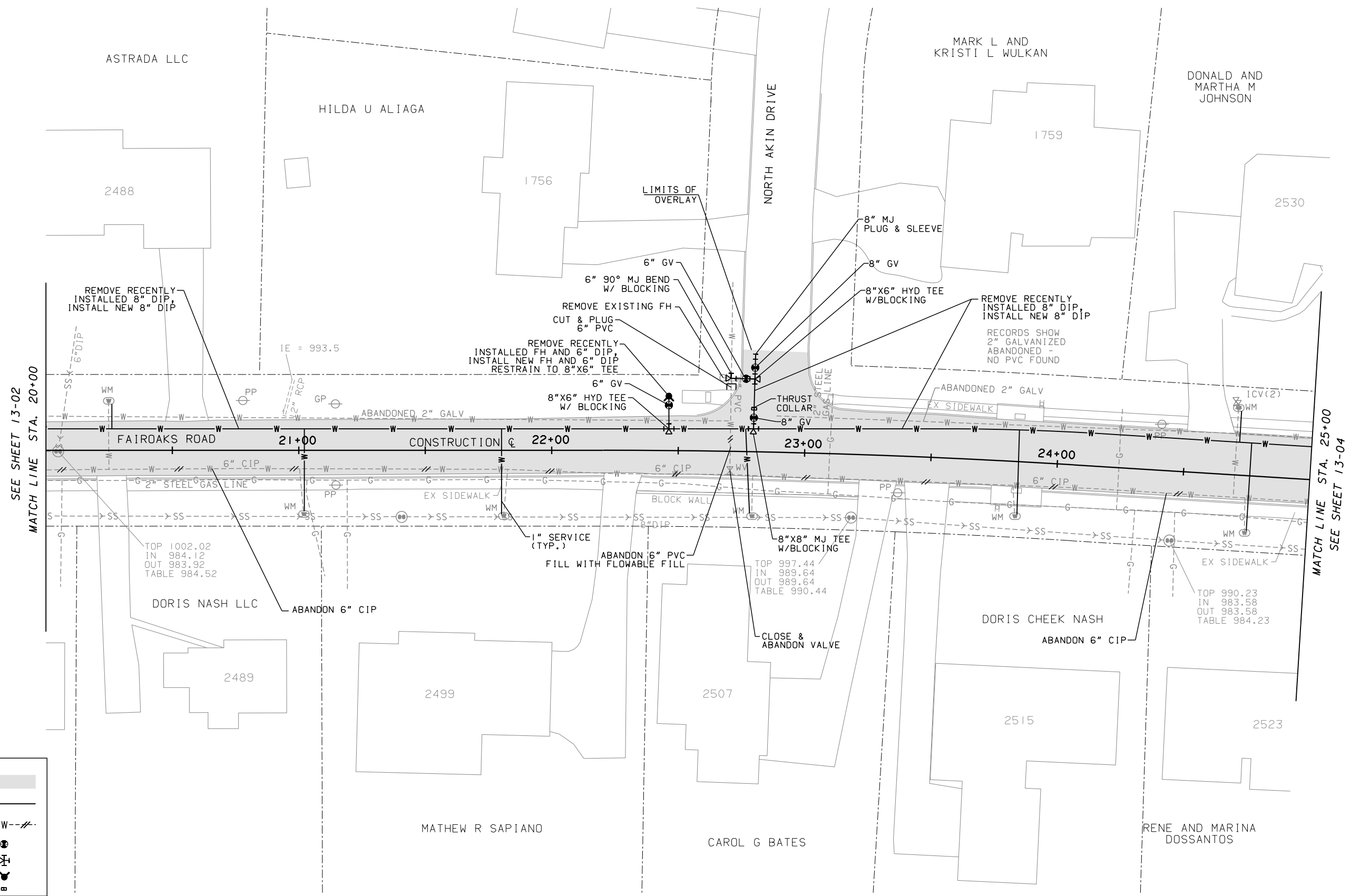


REVISION DATES

FAIROAKS ROAD
 WATER MAIN REPLACEMENT

MAINLINE PLAN

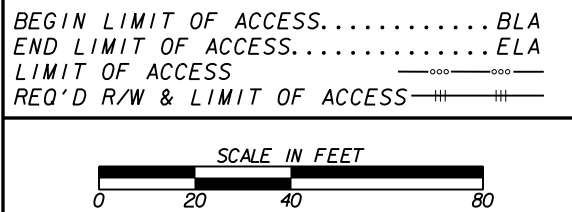
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-02	



LEGEND

AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

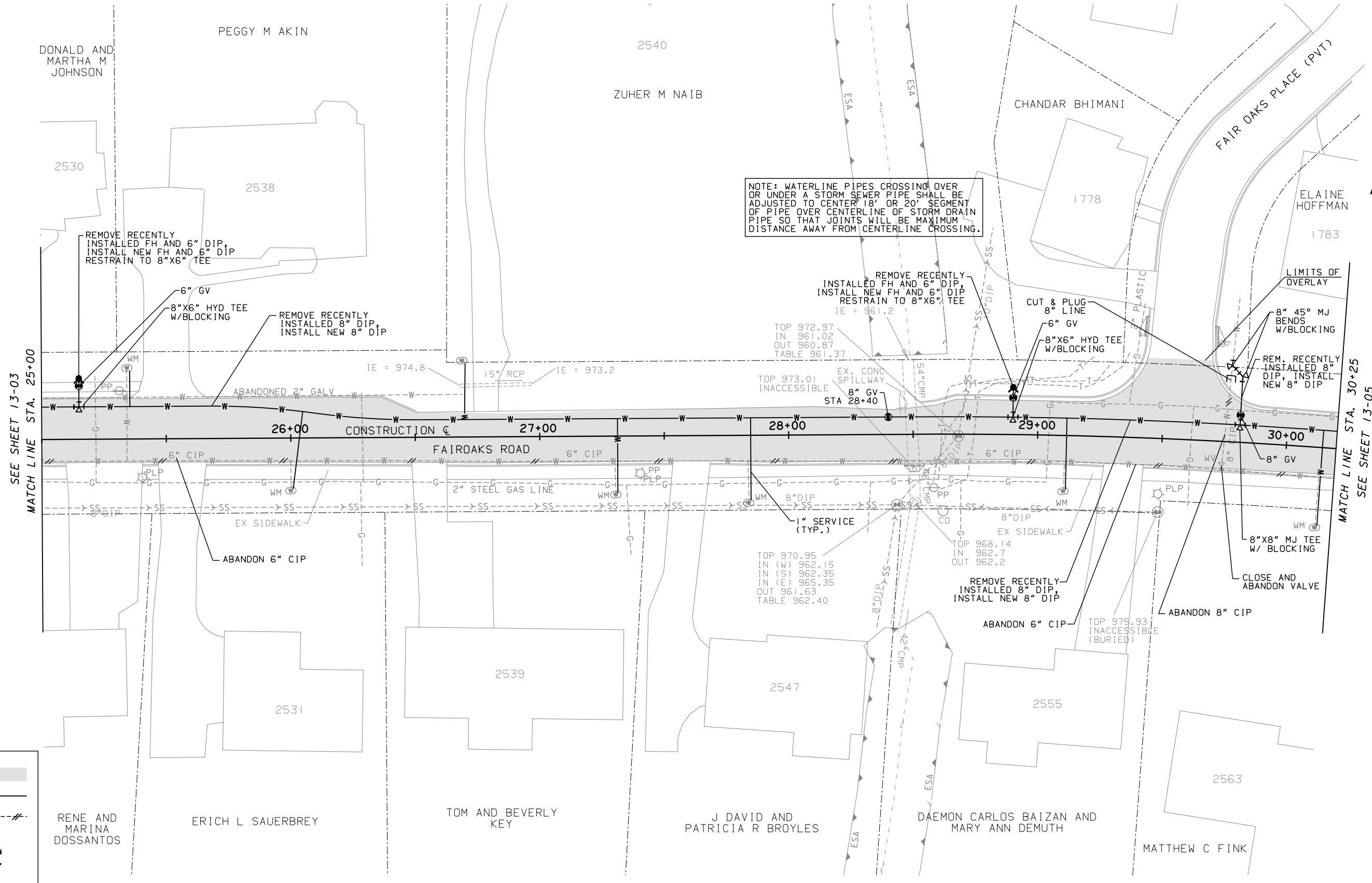
APPROXIMATE PROPERTY AND EXISTING R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	



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REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
MAINLINE PLAN					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
13-03					

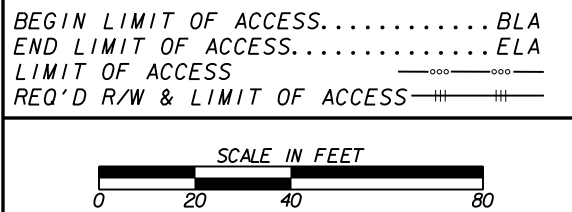


NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

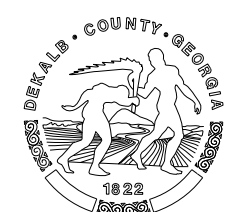
LEGEND

AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE	
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EASEMENT FOR CONSTR OF DRIVES	



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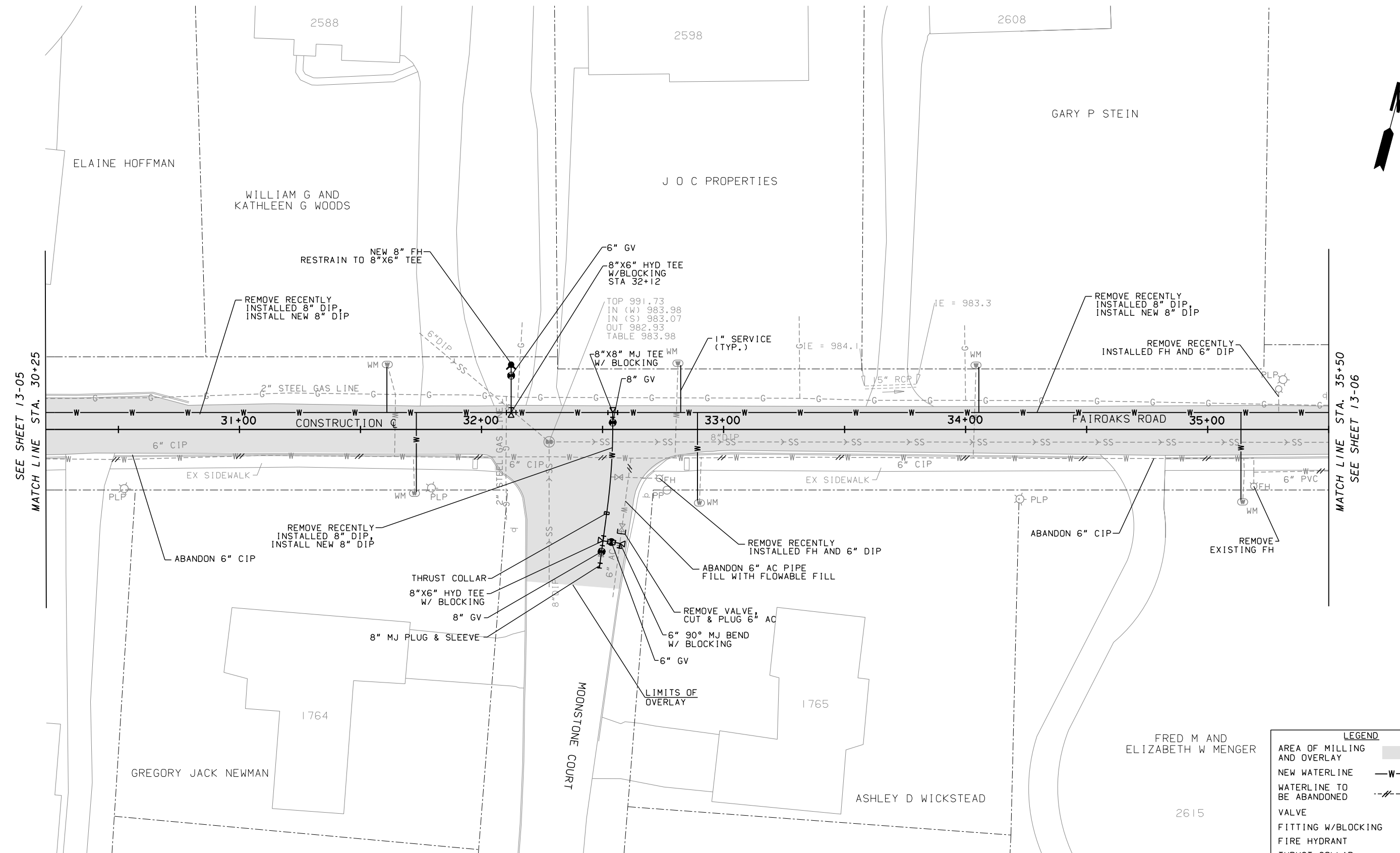


REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-04	



SEE SHEET 13-05
MATCH LINE STA. 30+25

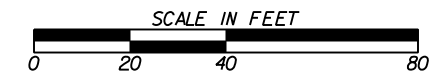
MATCH LINE STA. 35+50
SEE SHEET 13-06

LEGEND

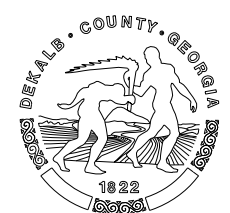
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS



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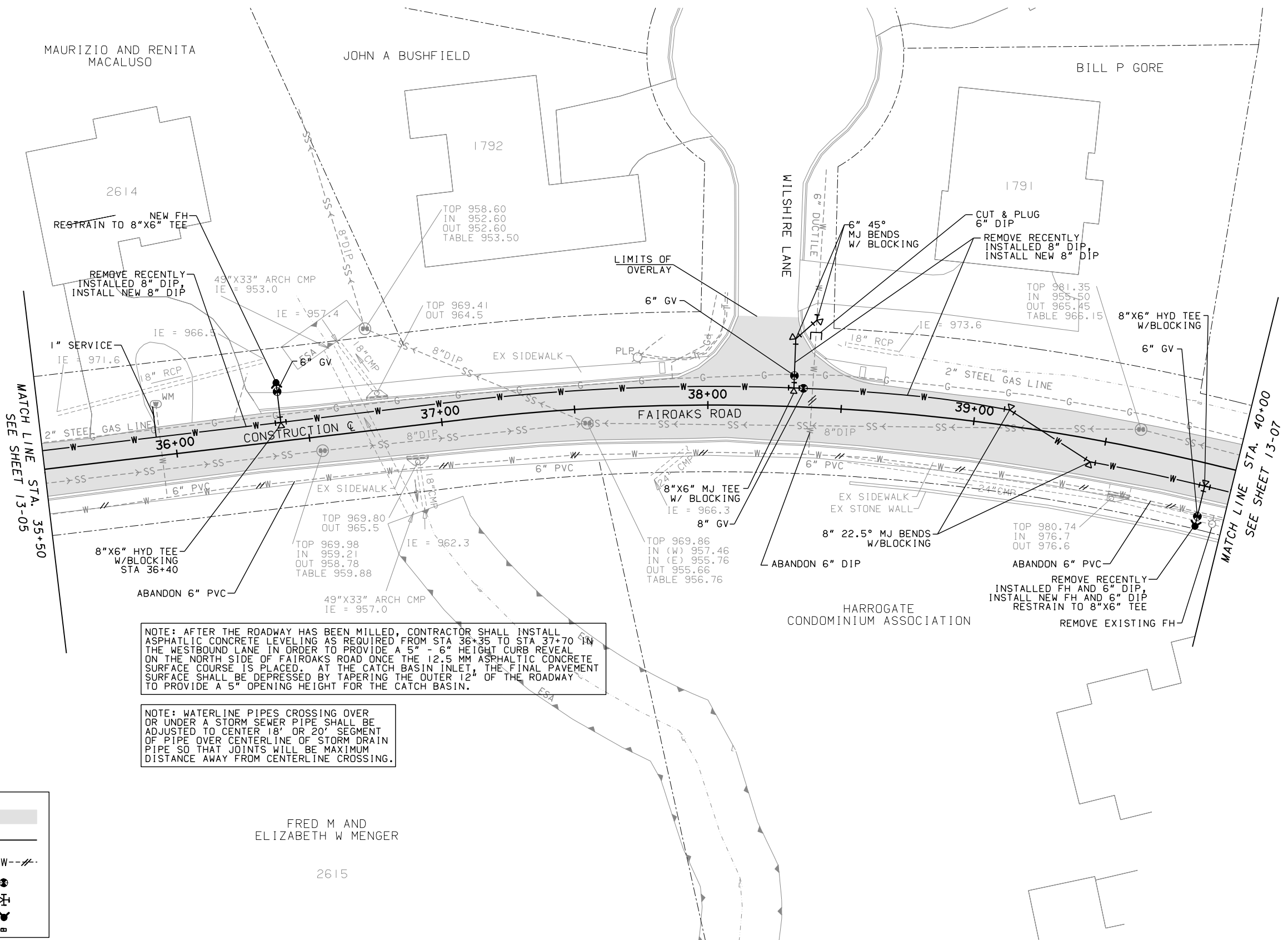
REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-05	

3/1/2008



NOTE: AFTER THE ROADWAY HAS BEEN MILLED, CONTRACTOR SHALL INSTALL ASPHALTIC CONCRETE LEVELING AS REQUIRED FROM STA 36+35 TO STA 37+70 IN THE WESTBOUND LANE IN ORDER TO PROVIDE A 5" - 6" HEIGHT CURB REVEAL ON THE NORTH SIDE OF FAIROAKS ROAD ONCE THE 12.5 MM ASPHALTIC CONCRETE SURFACE COURSE IS PLACED. AT THE CATCH BASIN INLET, THE FINAL PAVEMENT SURFACE SHALL BE DEPRESSED BY TAPERING THE OUTER 12" OF THE ROADWAY TO PROVIDE A 5" OPENING HEIGHT FOR THE CATCH BASIN.

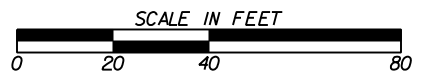
NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

LEGEND

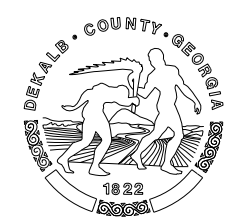
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE	
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EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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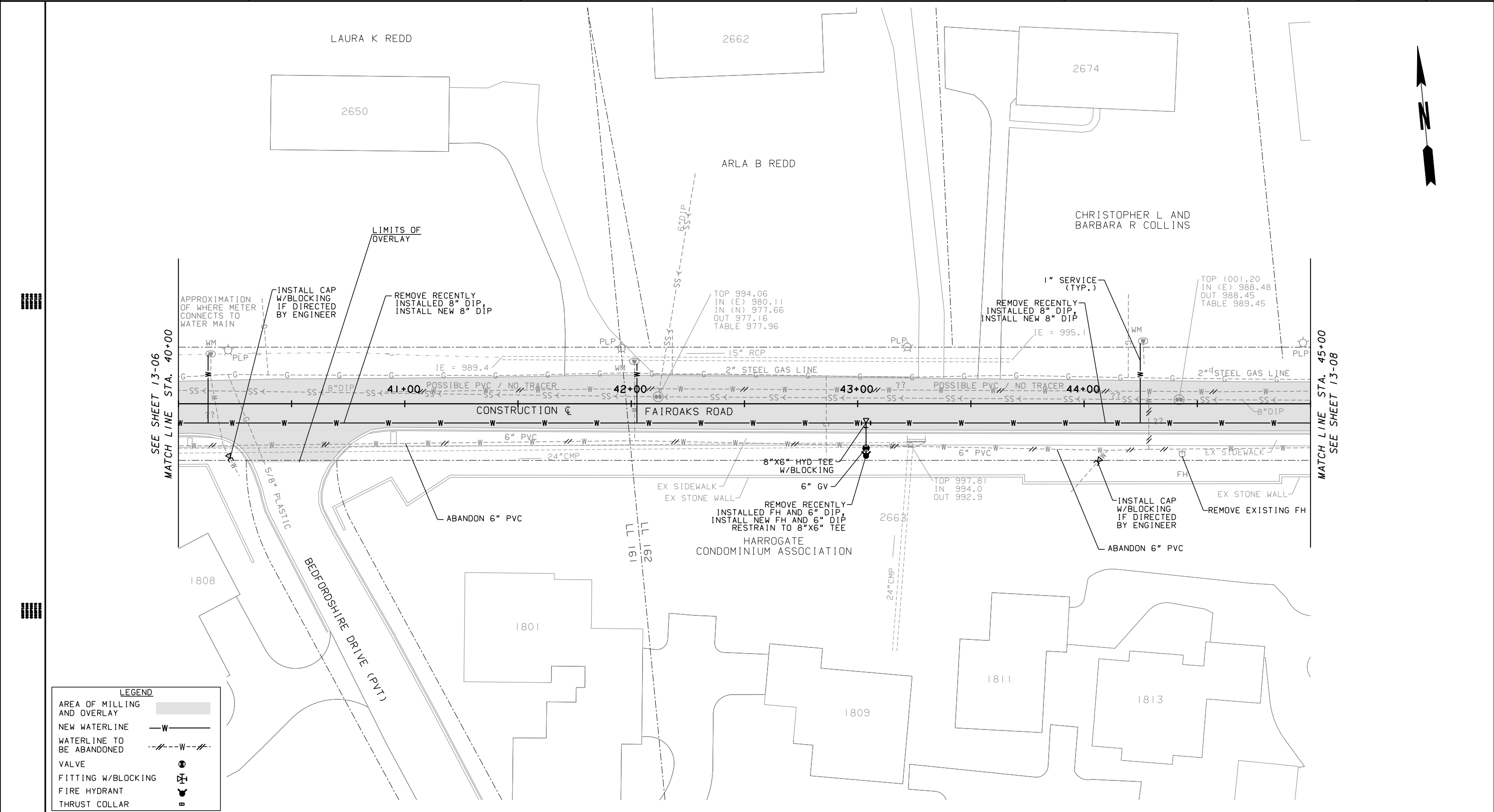


REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-06	



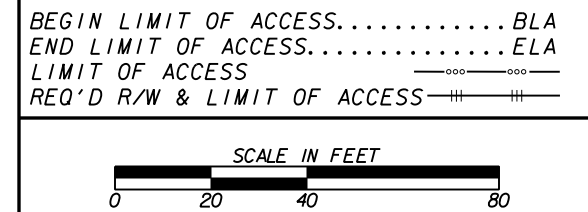
SEE SHEET 13-06
MATCH LINE STA. 40+00

MATCH LINE STA. 45+00
SEE SHEET 13-08

LEGEND

AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

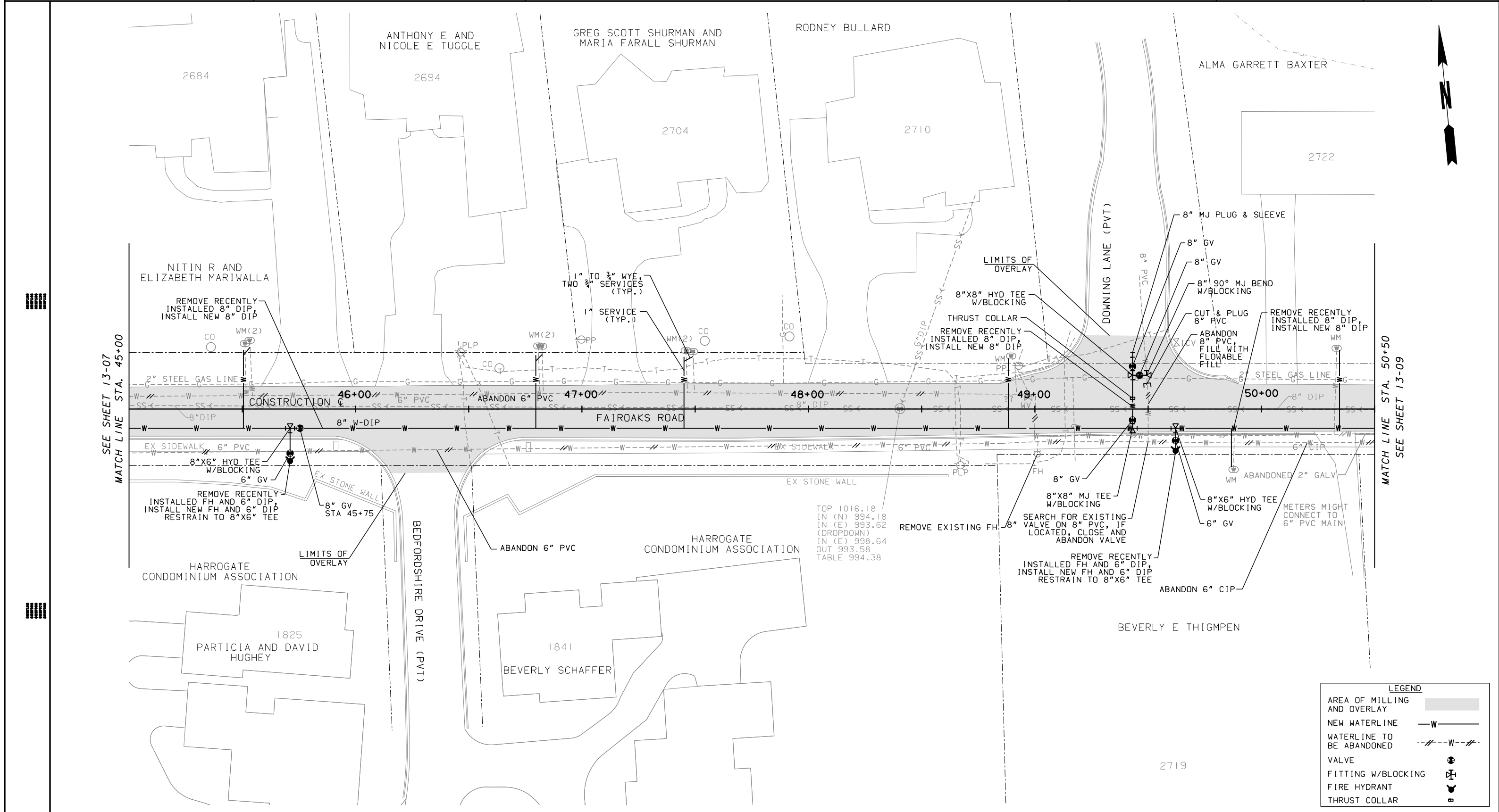
APPROXIMATE PROPERTY AND EXISTING R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	



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REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
MAINLINE PLAN					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
13-07					



SEE SHEET 13-07
MATCH LINE STA. 45+00

MATCH LINE STA. 50+50
SEE SHEET 13-09

LEGEND

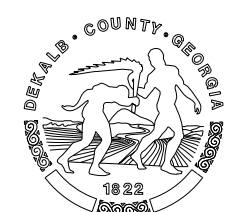
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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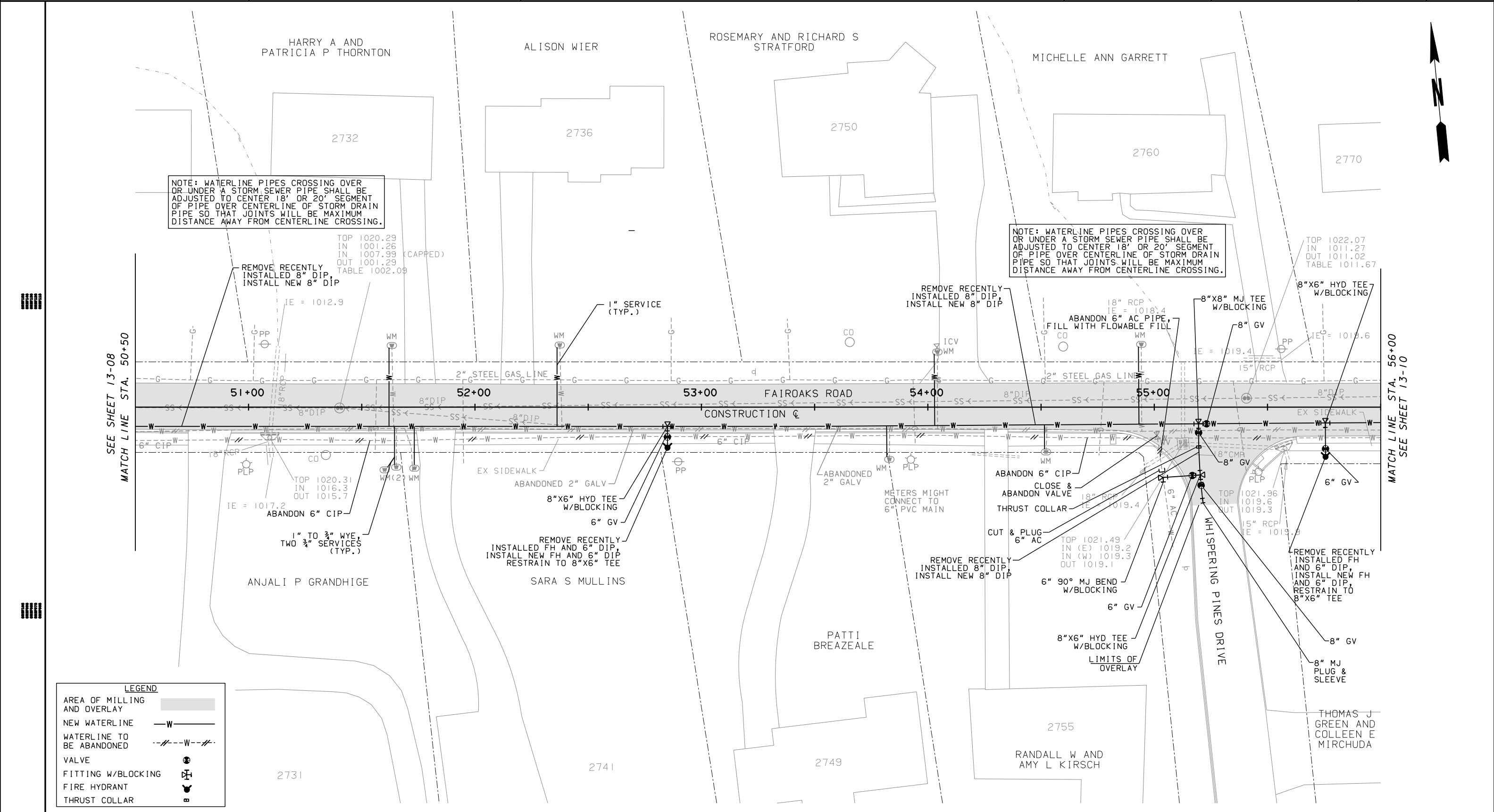


REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-08	



NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

SEE SHEET 13-08
MATCH LINE STA. 50+50

MATCH LINE STA. 56+00
SEE SHEET 13-10

LEGEND

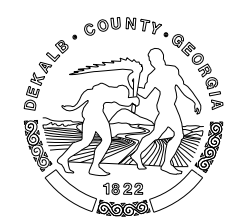
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

APPROXIMATE PROPERTY AND EXISTING R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

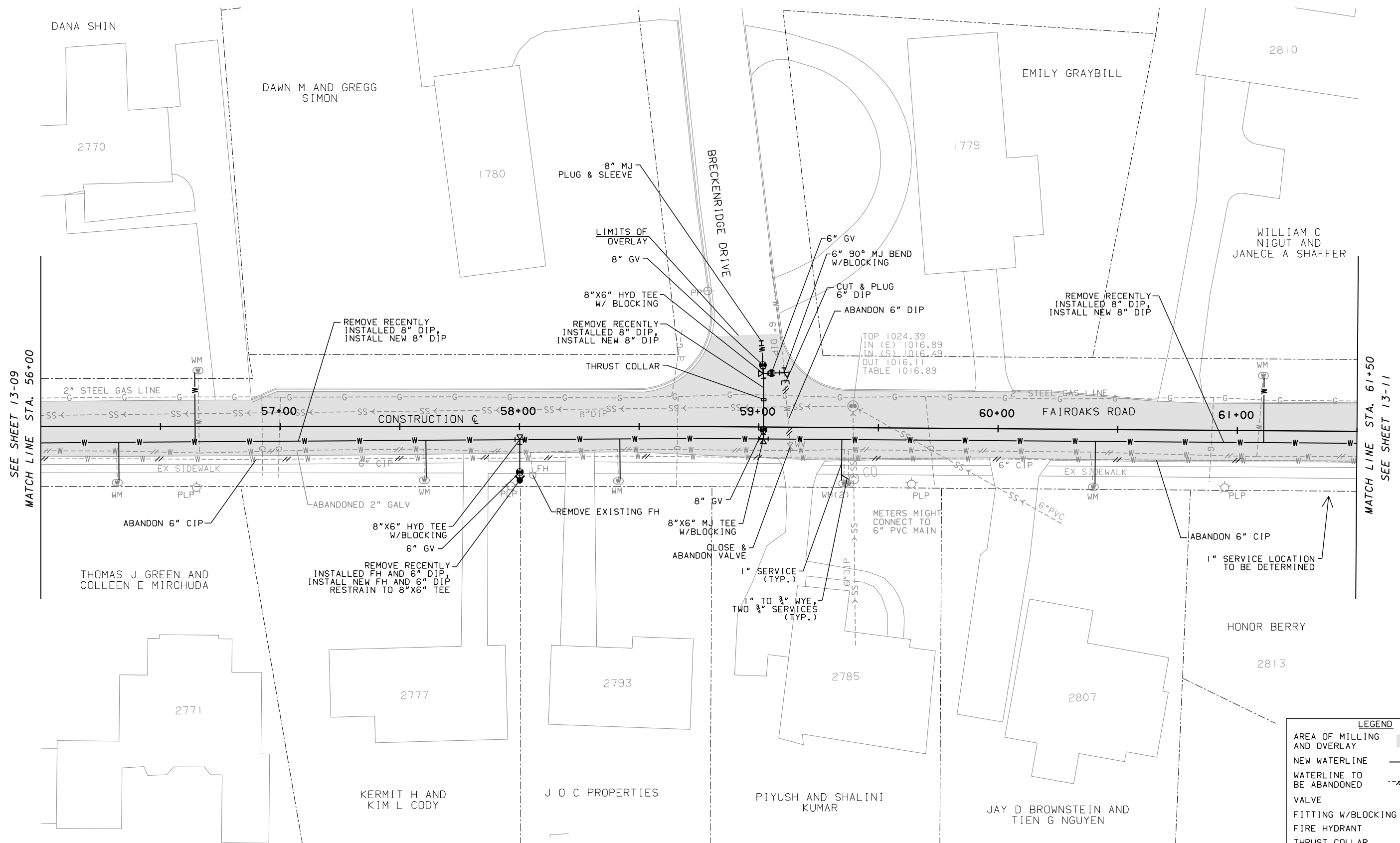


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REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT					
MAINLINE PLAN					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
					SHEET 13-09
					REV.



SEE SHEET 13-09
MATCH LINE STA. 56+00

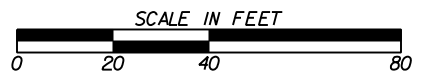
MATCH LINE STA. 61+50
SEE SHEET 13-11

LEGEND

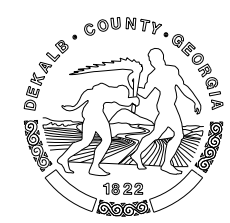
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

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 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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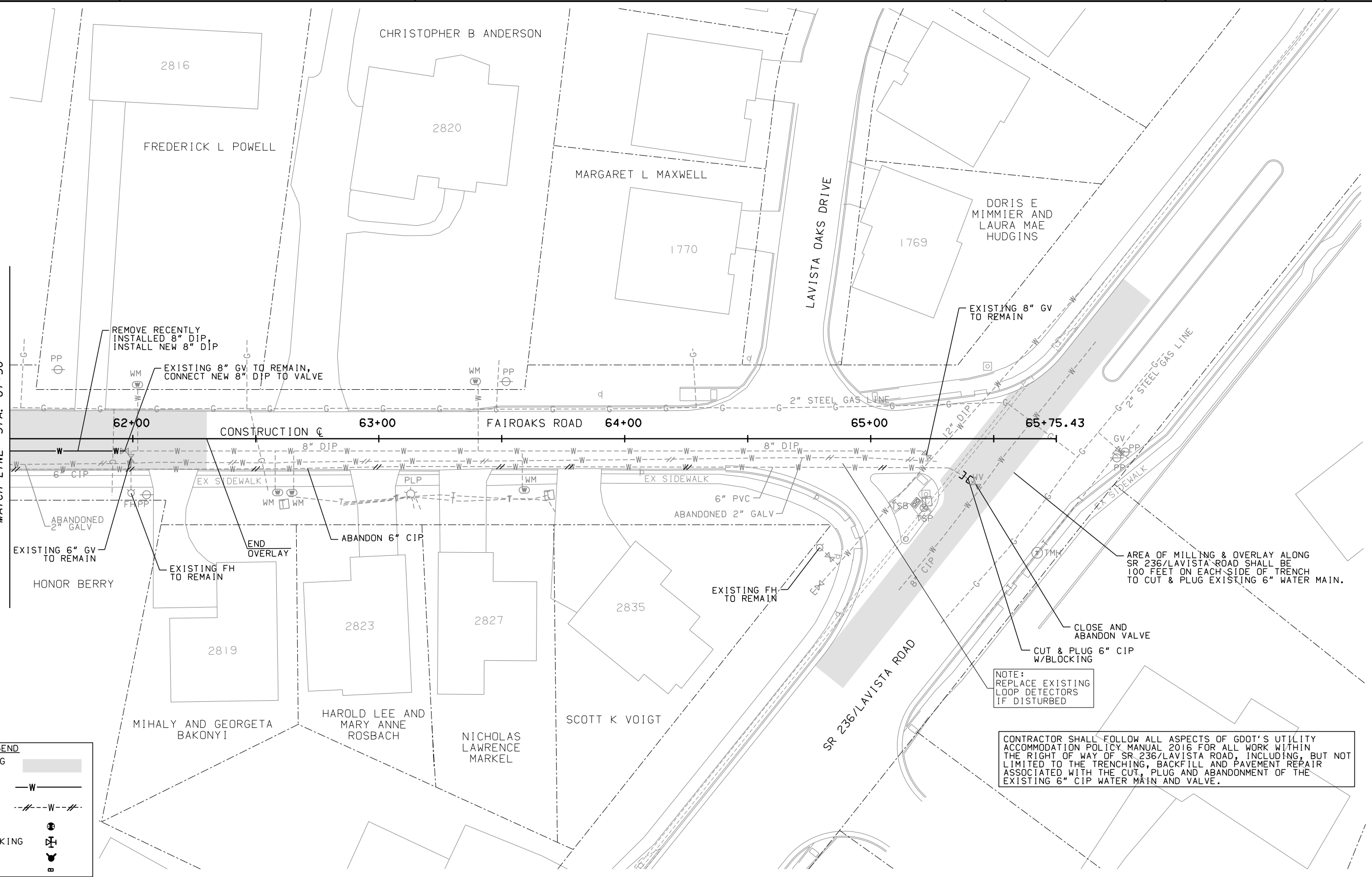
REVISION DATES

FAIROAKS ROAD WATER MAIN REPLACEMENT

MAINLINE PLAN

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	13-10	

3/1/2008
COMB



SEE SHEET 13-10
 MATCH LINE STA. 61+50

AREA OF MILLING & OVERLAY ALONG SR 236/LAVISTA ROAD SHALL BE 100 FEET ON EACH SIDE OF TRENCH TO CUT & PLUG EXISTING 6" WATER MAIN.

CLOSE AND ABANDON VALVE
 CUT & PLUG 6" CIP W/BLOCKING

NOTE: REPLACE EXISTING LOOP DETECTORS IF DISTURBED

CONTRACTOR SHALL FOLLOW ALL ASPECTS OF GDOT'S UTILITY ACCOMMODATION POLICY MANUAL 2016 FOR ALL WORK WITHIN THE RIGHT OF WAY OF SR 236/LAVISTA ROAD, INCLUDING, BUT NOT LIMITED TO THE TRENCHING, BACKFILL AND PAVEMENT REPAIR ASSOCIATED WITH THE CUT, PLUG AND ABANDONMENT OF THE EXISTING 6" CIP WATER MAIN AND VALVE.

LEGEND

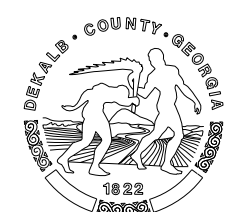
AREA OF MILLING AND OVERLAY	
NEW WATERLINE	
WATERLINE TO BE ABANDONED	
VALVE	
FITTING W/BLOCKING	
FIRE HYDRANT	
THRUST COLLAR	

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EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

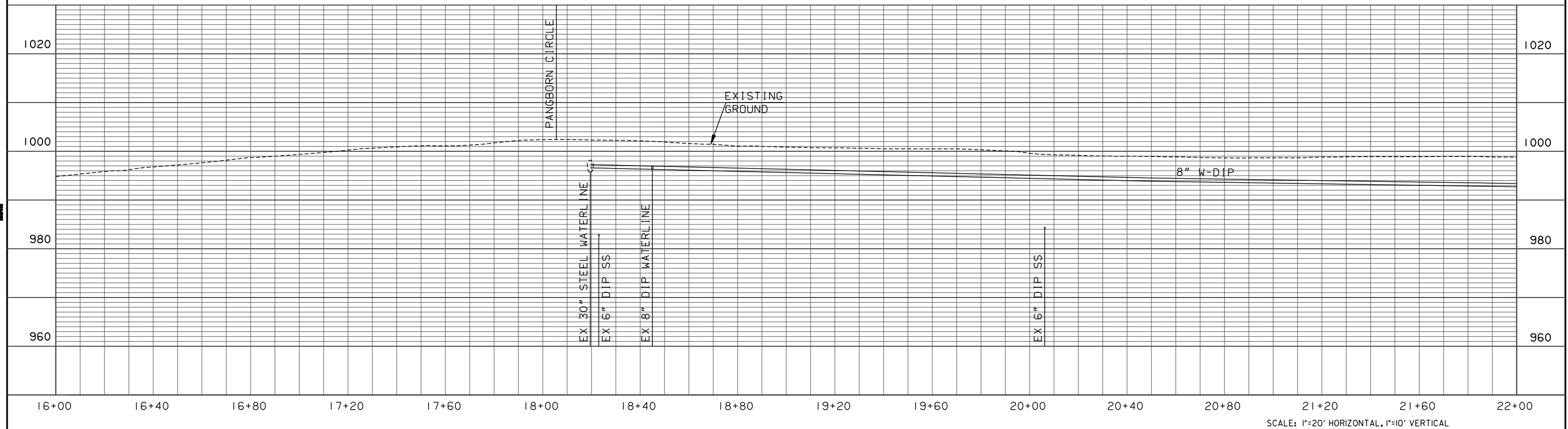
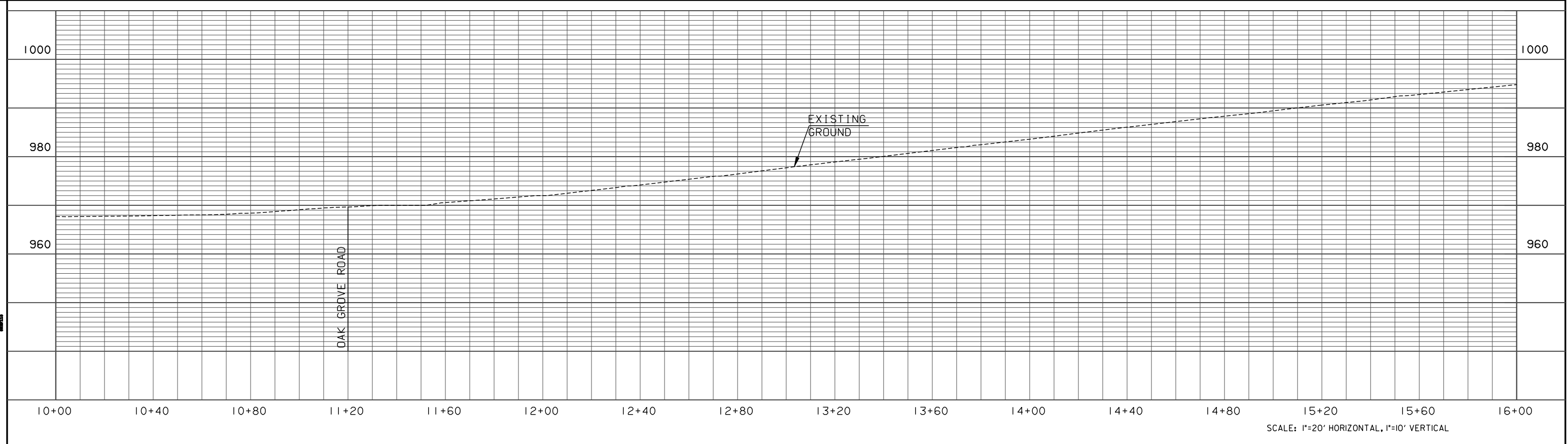


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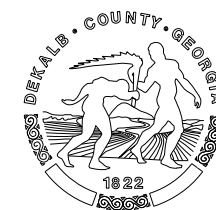
REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
MAINLINE PLAN					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
13-II					



NOTE: EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE.

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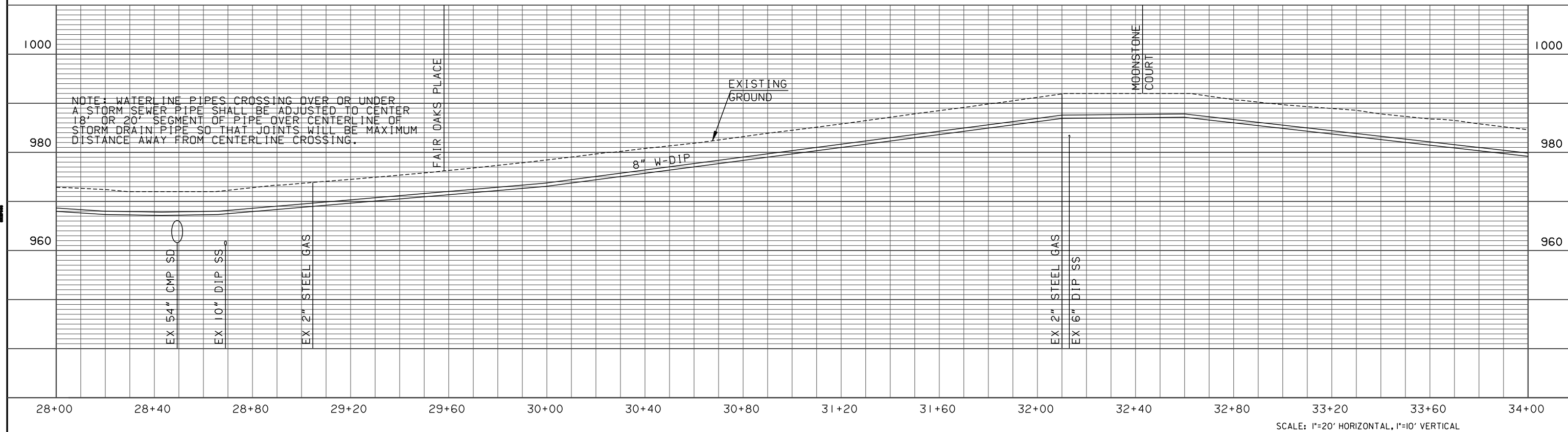
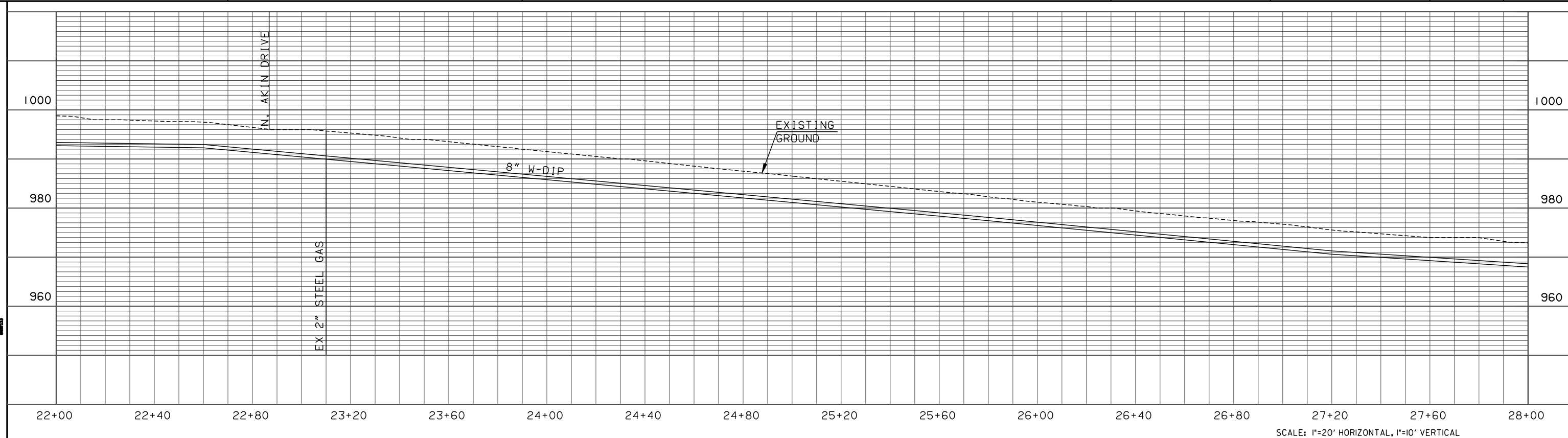
REVISION DATES

NO.	DATE	DESCRIPTION

FAIROAKS ROAD
WATER MAIN REPLACEMENT

MAINLINE PROFILE

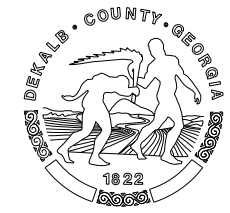
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	15-01	



NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

NOTE: EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE.

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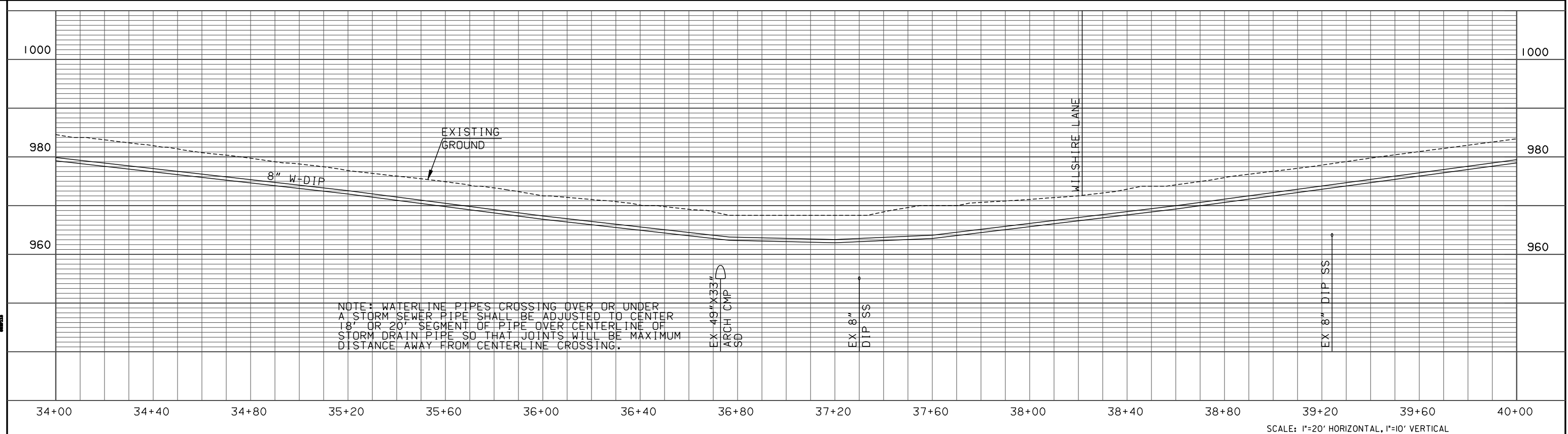


REVISION DATES	

FAIROAKS ROAD
WATER MAIN REPLACEMENT

MAINLINE PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	15-02	



NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

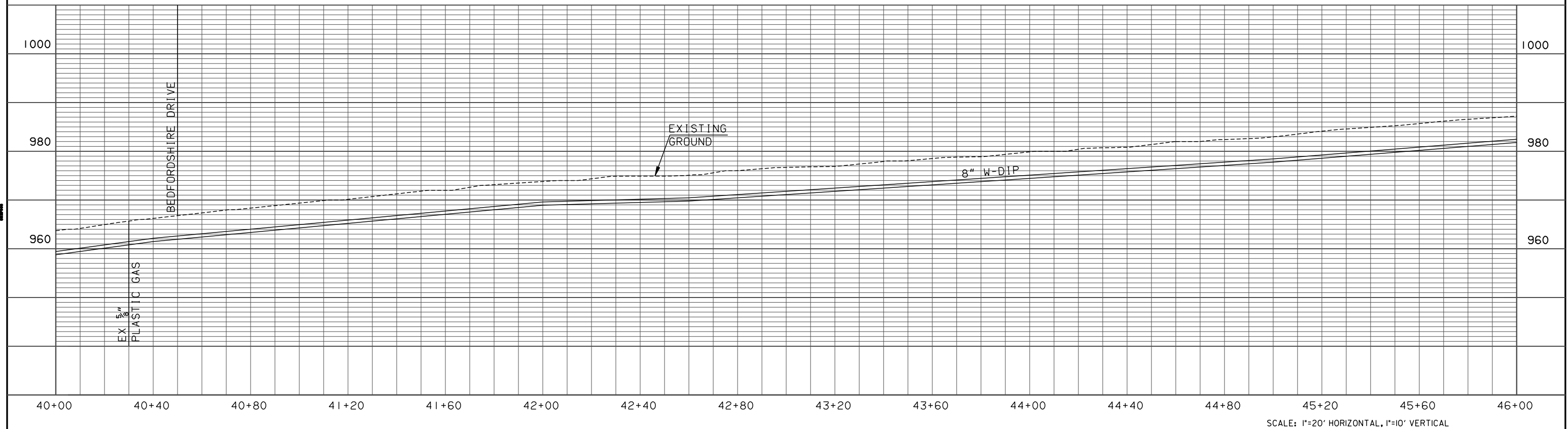
EX 48"X33" ARCH CMP SD

EX 8" DIP SS

EX 8" DIP SS

WILSHIRE LANE

SCALE: 1"=20' HORIZONTAL, 1"=10' VERTICAL



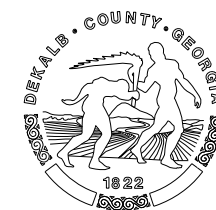
EX 5\"/>

BEDFORDSHIRE DRIVE

SCALE: 1"=20' HORIZONTAL, 1"=10' VERTICAL

NOTE: EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE.

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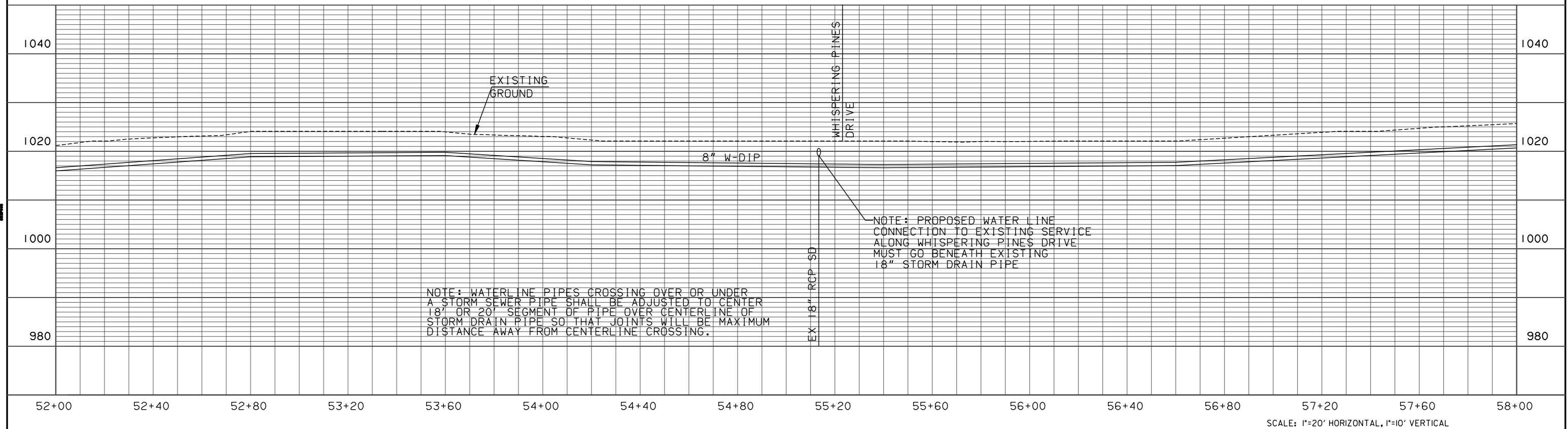
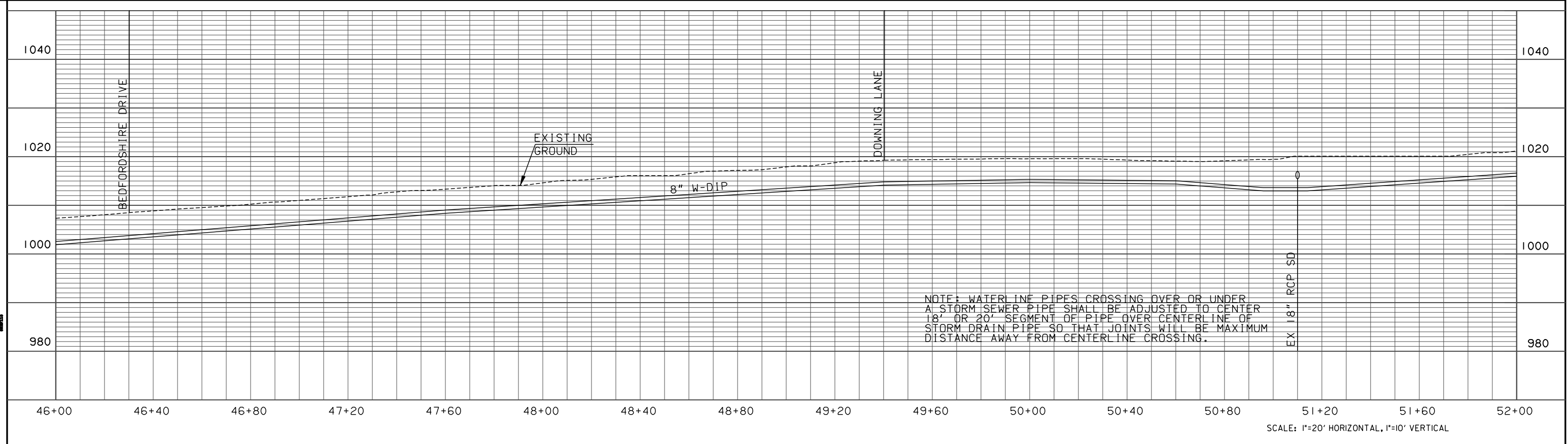
REVISION DATES

NO.	DATE	DESCRIPTION

FAIROAKS ROAD
 WATER MAIN REPLACEMENT

MAINLINE PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	15-03	



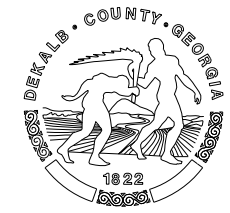
NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

NOTE: PROPOSED WATER LINE CONNECTION TO EXISTING SERVICE ALONG WHISPERING PINES DRIVE MUST GO BENEATH EXISTING 18" STORM DRAIN PIPE

NOTE: WATERLINE PIPES CROSSING OVER OR UNDER A STORM SEWER PIPE SHALL BE ADJUSTED TO CENTER 18' OR 20' SEGMENT OF PIPE OVER CENTERLINE OF STORM DRAIN PIPE SO THAT JOINTS WILL BE MAXIMUM DISTANCE AWAY FROM CENTERLINE CROSSING.

NOTE: EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE.

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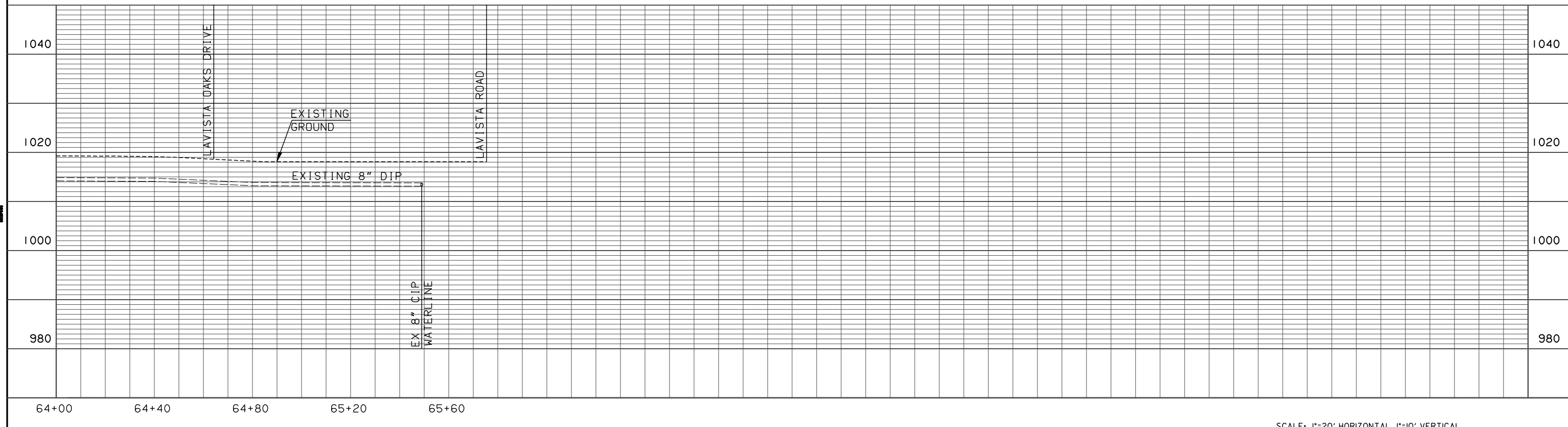
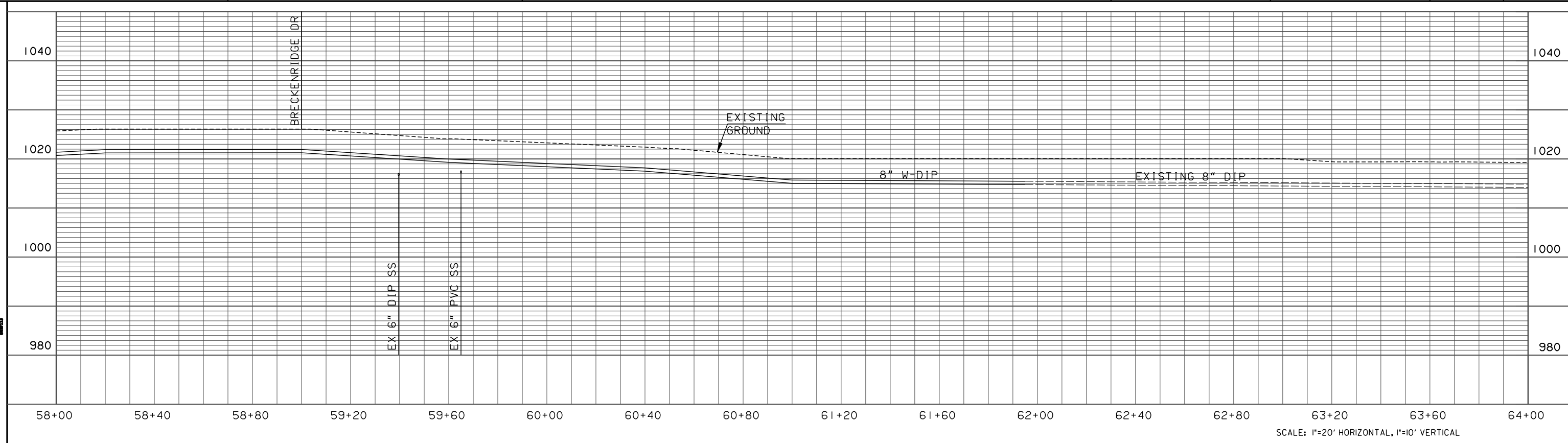
REVISION DATES

NO.	DATE	DESCRIPTION

FAIROAKS ROAD
WATER MAIN REPLACEMENT

MAINLINE PROFILE

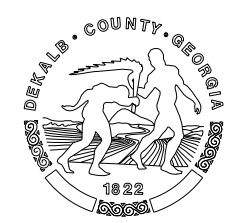
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	15-04	



SCALE: 1"=20' HORIZONTAL, 1"=10' VERTICAL

NOTE: EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE.

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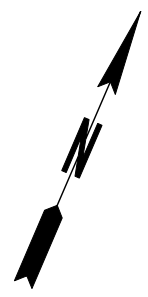
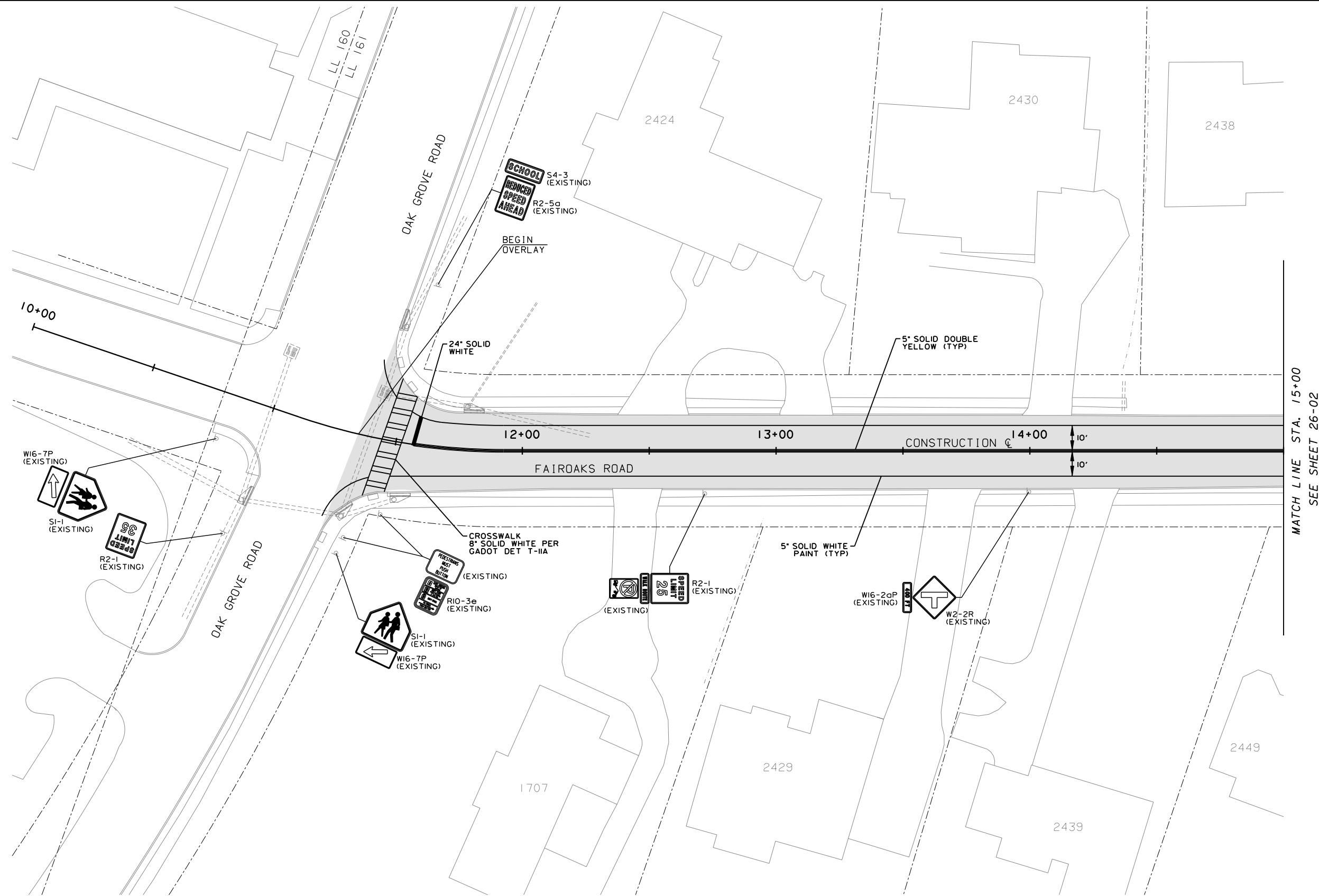
REVISION DATES

NO.	DATE	DESCRIPTION

FAIROAKS ROAD
WATER MAIN REPLACEMENT

MAINLINE PROFILE

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	15-05	



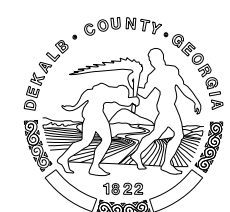
MATCH LINE STA. 15+00
SEE SHEET 26-02

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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REVISION DATES	

FAIROAKS ROAD
 WATER MAIN REPLACEMENT

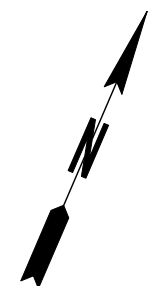
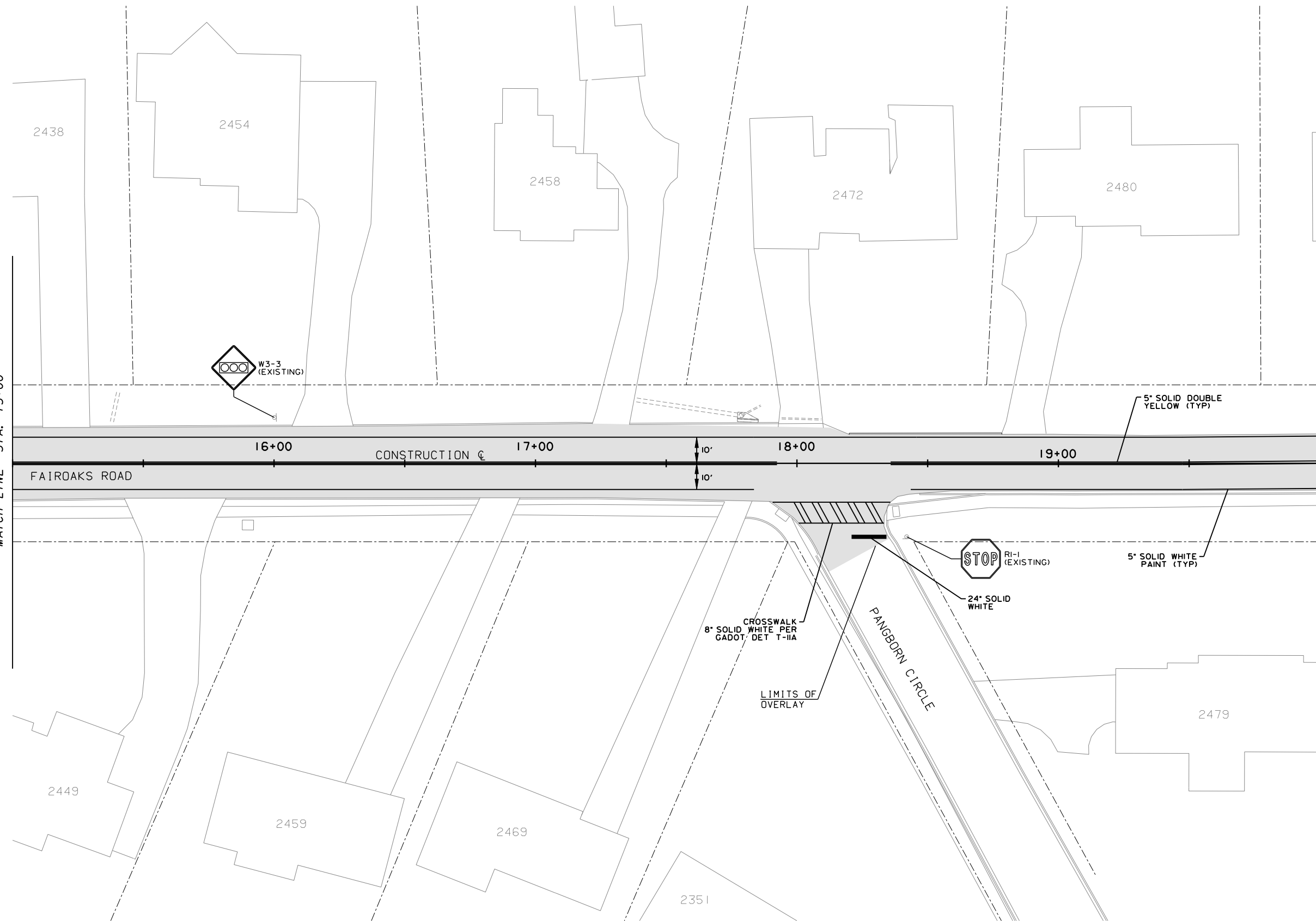
SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	26-01	

3/1/2008

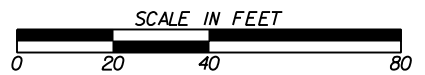
SEE SHEET 26-01
MATCH LINE STA. 15+00

MATCH LINE STA. 20+00
SEE SHEET 26-03

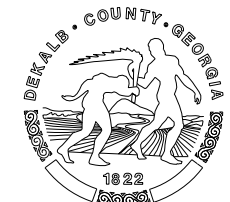


APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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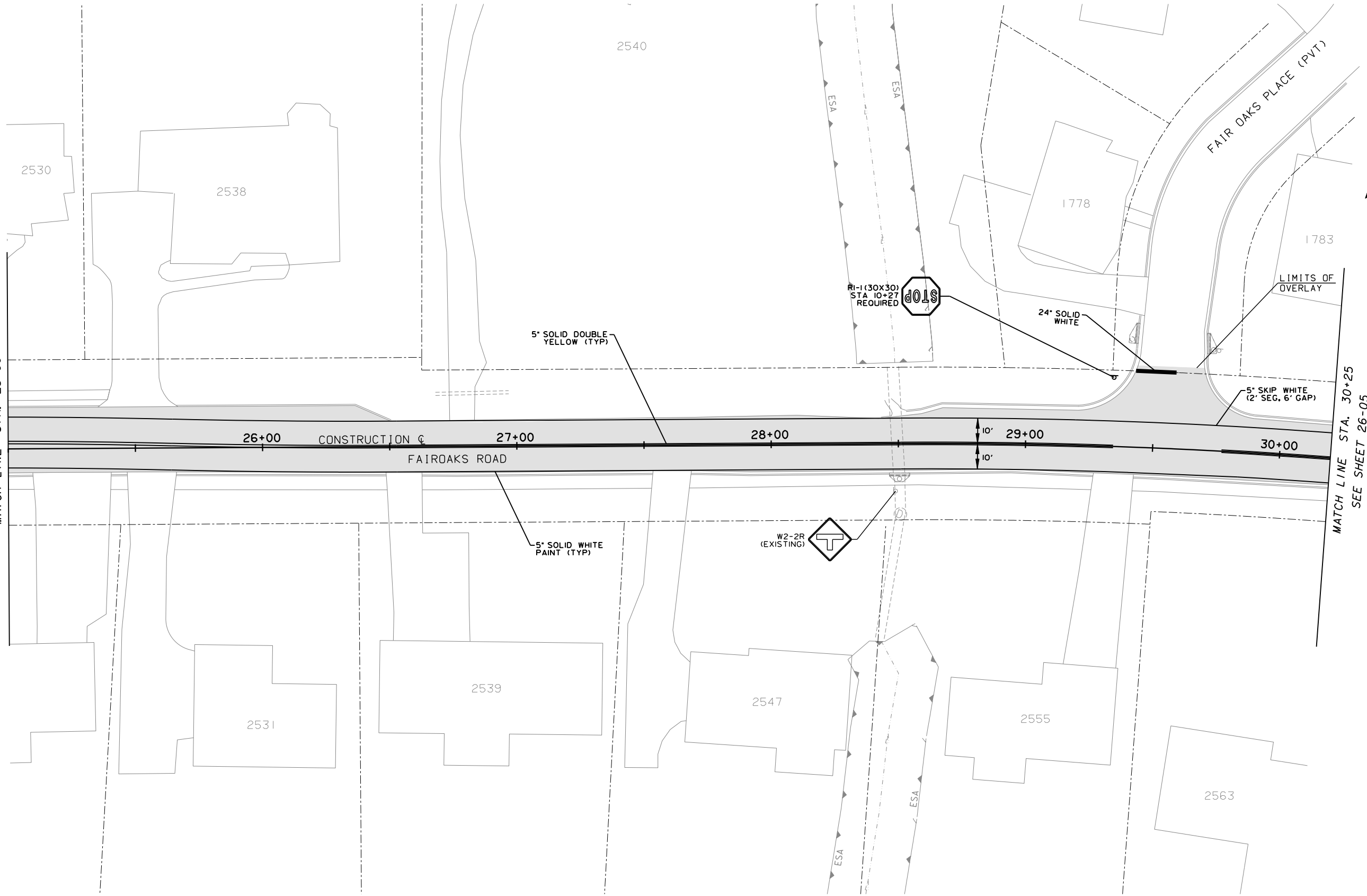


REVISION DATES		

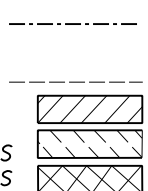
FAIROAKS ROAD WATER MAIN REPLACEMENT					
SIGNING AND MARKING PLANS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
26-02					

SEE SHEET 26-03
 MATCH LINE STA. 25+00

MATCH LINE STA. 30+25
 SEE SHEET 26-05



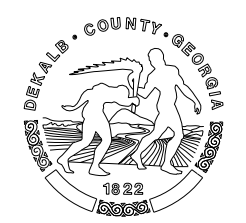
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 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
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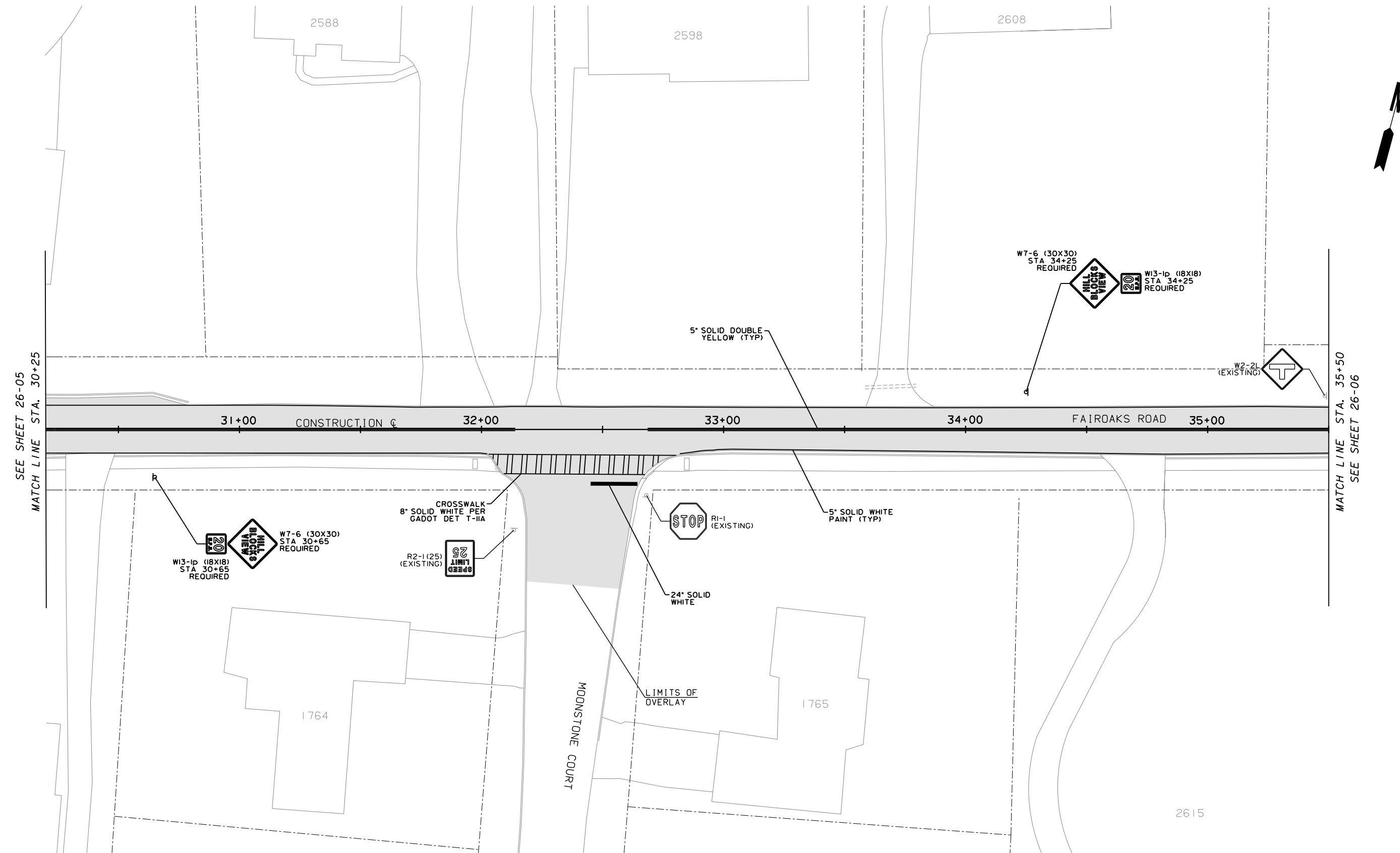


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FAIROAKS ROAD WATER MAIN REPLACEMENT					
SIGNING AND MARKING PLANS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
					SHEET
					26-04
					REV.



SEE SHEET 26-05
MATCH LINE STA. 30+25

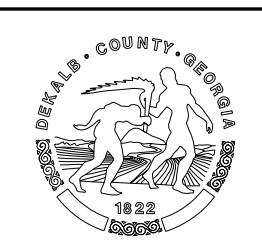
MATCH LINE STA. 35+50
SEE SHEET 26-06

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
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 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

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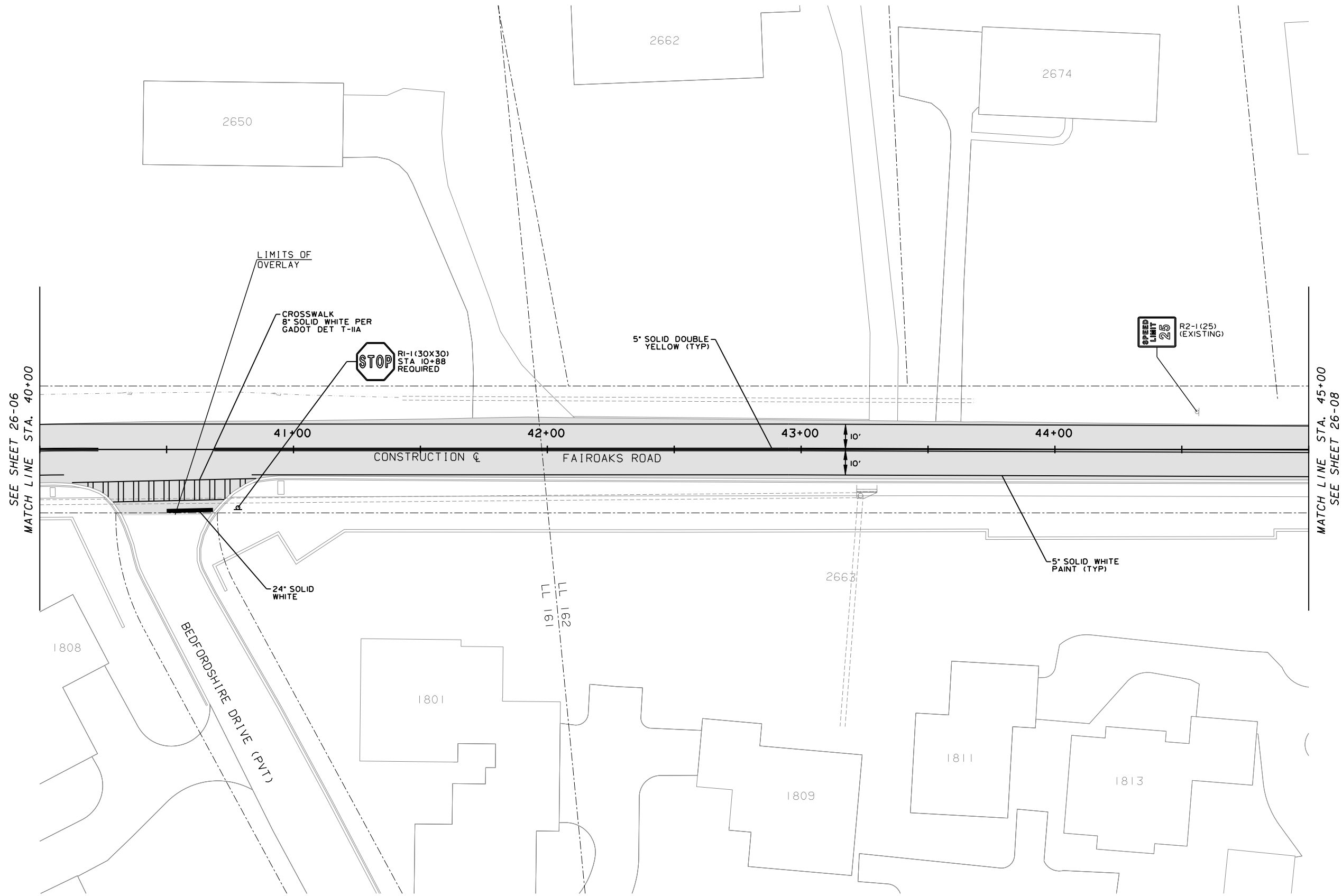
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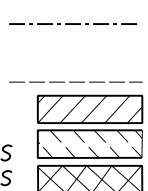
REVISION DATES		

FAIROAKS ROAD WATER MAIN REPLACEMENT						
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DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET
				AS SHOWN	3006018	26-05
REV.						

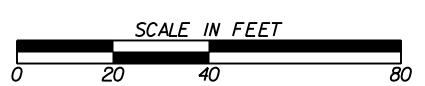
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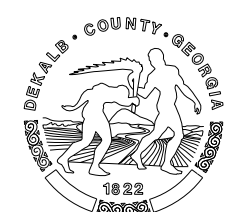
APPROXIMATE PROPERTY AND EXISTING R/W LINE
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 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
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 REQ'D R/W & LIMIT OF ACCESS

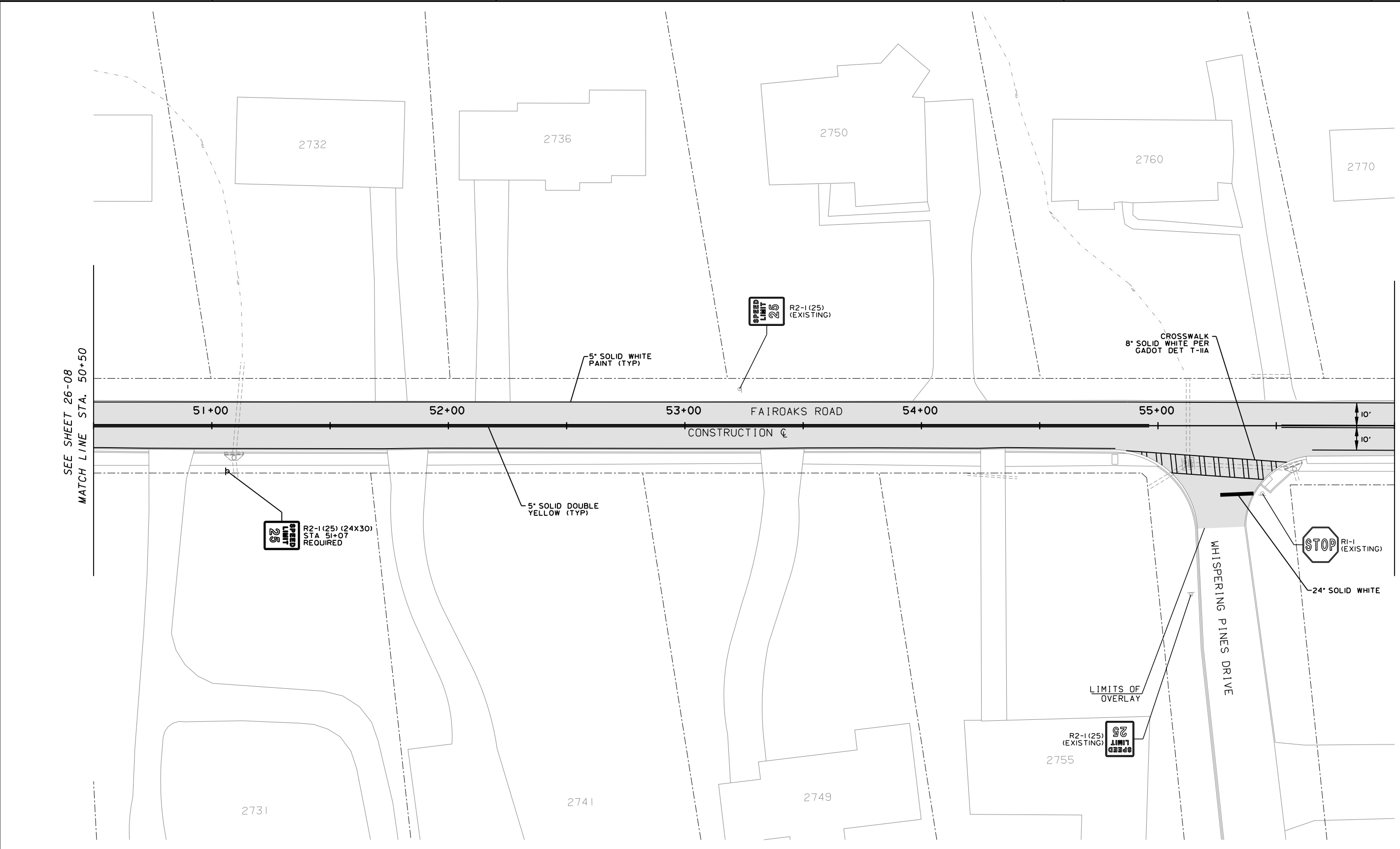


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REVISION DATES		

FAIROAKS ROAD WATER MAIN REPLACEMENT						
SIGNING AND MARKING PLANS						
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET
				AS SHOWN	3006018	26-07
REV.						



SEE SHEET 26-08
MATCH LINE STA. 50+50

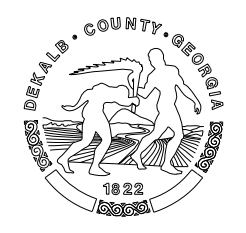
MATCH LINE STA. 56+00
SEE SHEET 26-10

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

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 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

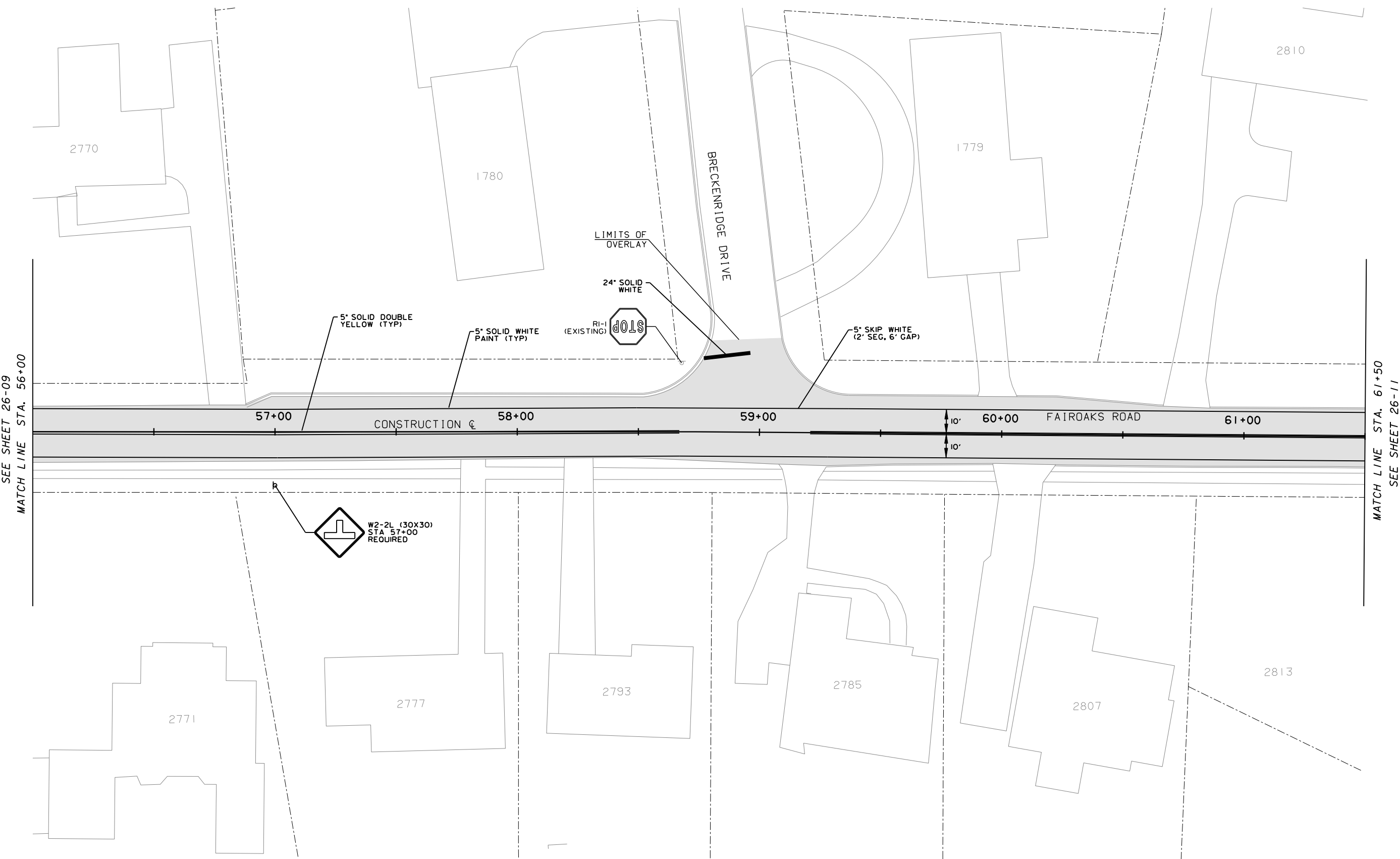


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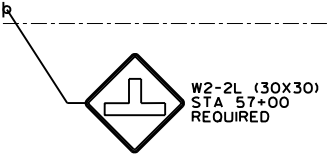
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FAIROAKS ROAD WATER MAIN REPLACEMENT					
SIGNING AND MARKING PLANS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
26-09					



SEE SHEET 26-09
MATCH LINE STA. 56+00

MATCH LINE STA. 61+50
SEE SHEET 26-11

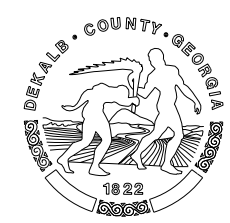


APPROXIMATE PROPERTY AND EXISTING R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

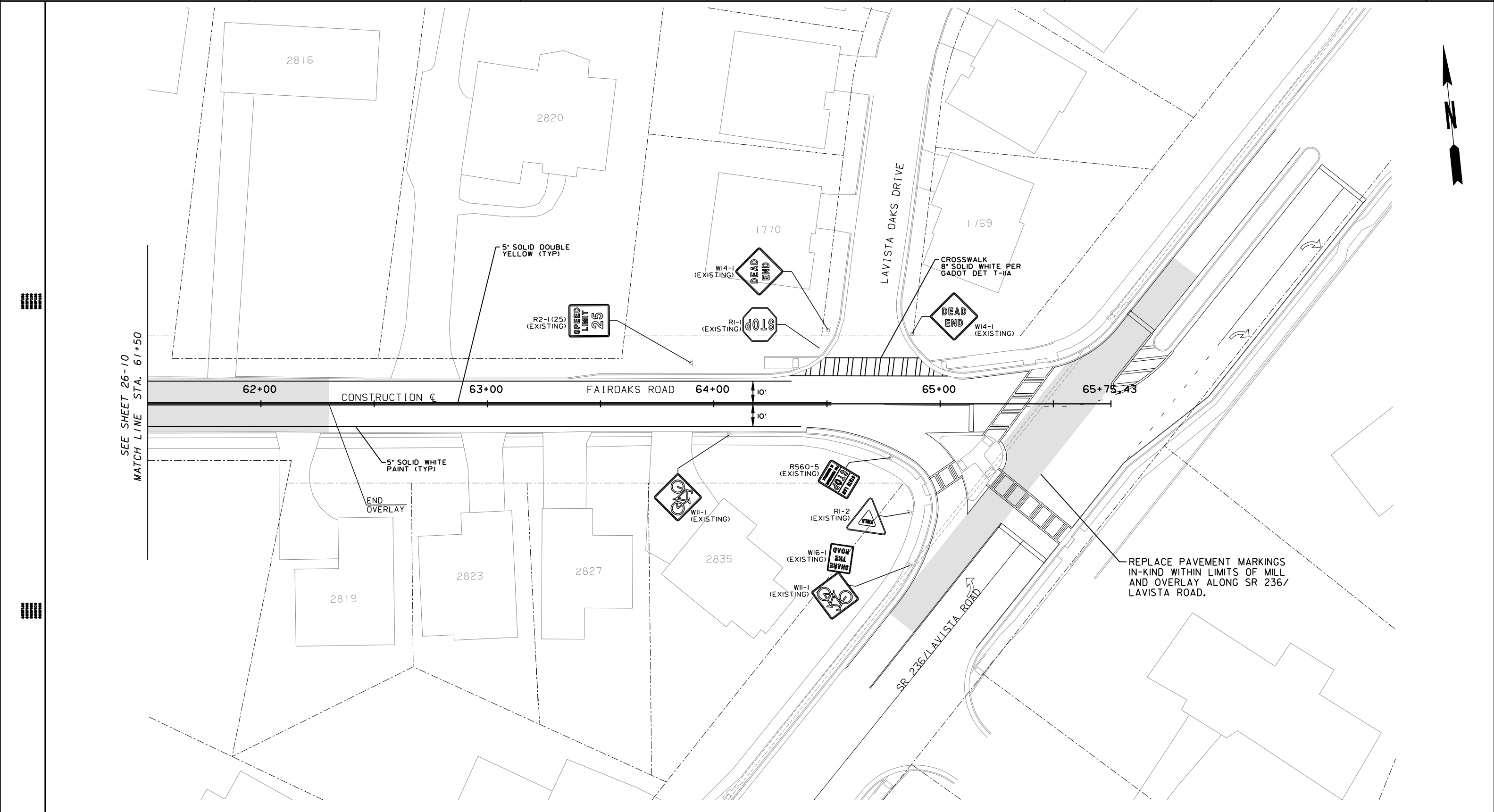


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REVISION DATES		

FAIROAKS ROAD WATER MAIN REPLACEMENT					
SIGNING AND MARKING PLANS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
					SHEET 26-10
					REV.

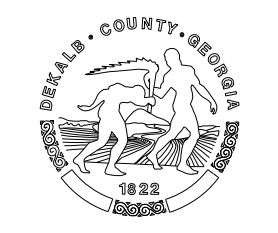


APPROXIMATE PROPERTY AND EXISTING R/W LINE
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 REQ'D R/W & LIMIT OF ACCESS

SCALE IN FEET
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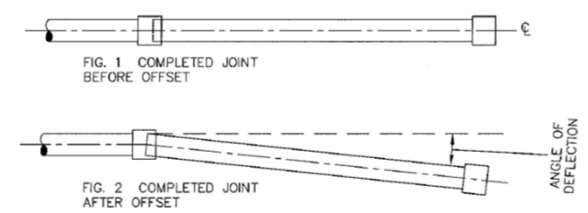


REVISION DATES	

FAIROAKS ROAD
 WATER MAIN REPLACEMENT

SIGNING AND MARKING PLANS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	26-11	



TYPE JOINT	PIPE SIZE	PIPE LENGTH	MAXIMUM ANGLE OF DEFLECTION	MAXIMUM OFFSET	RADIUS OF CURVATURE
SLIP	6" - 8"	18'	5°	19"	205'
MJ	6" - 8"	18'	5°	19"	205'
SLIP	16"	12'	4°	10"	175'
SLIP	16"	18'	4°	15"	260'

NOTE:
 ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Maximum Allowable Offsets and Deflections
 NOT TO SCALE
 11/07
 DETAIL NO. W-005

FITTING Ø	(IN)	B (FT)	H (FT)	C (FT)	VOL (YD ³)
6	0.9	0.8	0.45	0.010	
8	1.2	1.1	0.60	0.022	
11-1/4	1.5	1.3	0.75	0.041	
12	1.8	1.6	0.90	0.071	
16	2.3	2.2	1.15	0.149	
6	1.3	1.1	0.65	0.023	
8	1.6	1.6	0.80	0.048	
10	2.1	1.9	1.05	0.097	
12	2.5	2.3	1.25	0.165	
16	3.3	3.0	1.65	0.362	
6	1.7	1.6	0.85	0.050	
8	2.2	2.2	1.10	0.113	
10	2.8	2.7	1.40	0.222	
12	3.3	3.3	1.65	0.375	
16	4.5	4.3	2.25	0.887	
6	2.3	2.2	1.15	0.118	
8	3.1	2.9	1.55	0.278	
10	3.8	3.7	1.90	0.530	
12	4.6	4.4	2.30	0.921	
16	6.1	5.9	3.05	2.142	
6	2.1	1.8	1.00	0.073	
8	2.6	2.5	1.30	0.170	
10	3.2	3.1	1.60	0.319	
12	3.9	3.7	1.95	0.565	
16	5.1	5.0	2.55	1.303	

NOTES:
 1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
 2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Blocking Detail Horizontal Thrust
 NOT TO SCALE
 11/07
 DETAIL NO. W-009

2 - #4 REINFORCED BARS
 COAT EXPOSED AREA OF BARS WITH ROSKOTE

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
6	1.0	0.3	0.008	
8	1.2	0.4	0.012	
11-1/4	1.5	0.6	0.026	
12	1.9	0.8	0.055	
16	2.4	1.0	0.110	
6	1.3	0.5	0.017	
8	1.7	0.7	0.039	
10	2.1	0.9	0.075	
12	2.5	1.1	0.129	
16	3.2	1.6	0.308	
6	1.7	0.7	0.039	
8	2.2	0.9	0.083	
10	2.7	1.2	0.164	
12	3.3	1.5	0.305	
16	4.3	2.0	0.688	

NOTE:
 1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
 2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Blocking Detail Downward Thrust
 NOT TO SCALE
 11/07
 DETAIL NO. W-010

2 - #4 REINFORCED BARS
 COAT EXPOSED AREA OF BARS WITH ROSKOTE

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
6	3.0	2.2	0.4	
8	3.5	2.4	0.6	
11-1/4	4.0	3.2	1.0	
12	4.5	3.5	1.4	
16	5.0	4.8	2.4	
6	3.5	2.9	0.7	
8	4.0	3.9	1.2	
10	4.5	4.8	1.9	
12	5.5	4.8	2.7	
16	6.5	5.9	4.8	
6	4.5	3.4	1.3	
8	5.0	4.6	2.2	
10	6.0	5.1	3.5	
12	6.5	6.2	5.0	
16	8.0	7.3	8.8	

NOTES:
 1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
 2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
 3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Blocking Detail Upward Thrust
 NOT TO SCALE
 11/07
 DETAIL NO. W-011

TRENCH LIMITS
 18" MIN
 9" MIN (TYP)
 9" MIN
 3" COVER

#4 BARS ALL AROUND (MIN 2" CLEARANCE AROUND PIPE)
 TIE RODS INCLUDING NUTS AND WASHERS (SEE SCHEDULE BELOW)
 MECHANICAL JOINTS
 SEE TRENCH DETAILS FOR PIPE BEDDING REQUIREMENTS
 4" X 4" X 1/2" STEEL BEARING PLATE (TYP)
 #4 BARS
 UNDISTURBED EARTH
 INSTALL TIE RODS IN 1-1/2" PVC SLEEVE

PIPE SIZE (INCHES)	DIMENSIONS (FT.)			TIE RODS REQ'D	
	A	B	C	DIA	NO.
6	2.0	2.0	1.0	3/4	2
8	2.5	2.5	1.0	3/4	2
10	3.5	3.0	1.0	3/4	2
12	5.0	3.0	1.0	3/4	2
16	6.0	4.0	1.5	3/4	4
20	8.0	5.0	1.5	3/4	6
24	9.0	6.0	1.5	3/4	8

NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 2000 LBS/SF SOIL RESTRAINT BEARING.

NOTES:
 1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
 2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
 3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARDS.
 4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
 6. DESIGN PRESSURE: 150 PSI.

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Thrust Restraint (150 psi) Tie-rod Installation Detail
 NOT TO SCALE
 11/07
 DETAIL NO. W-022

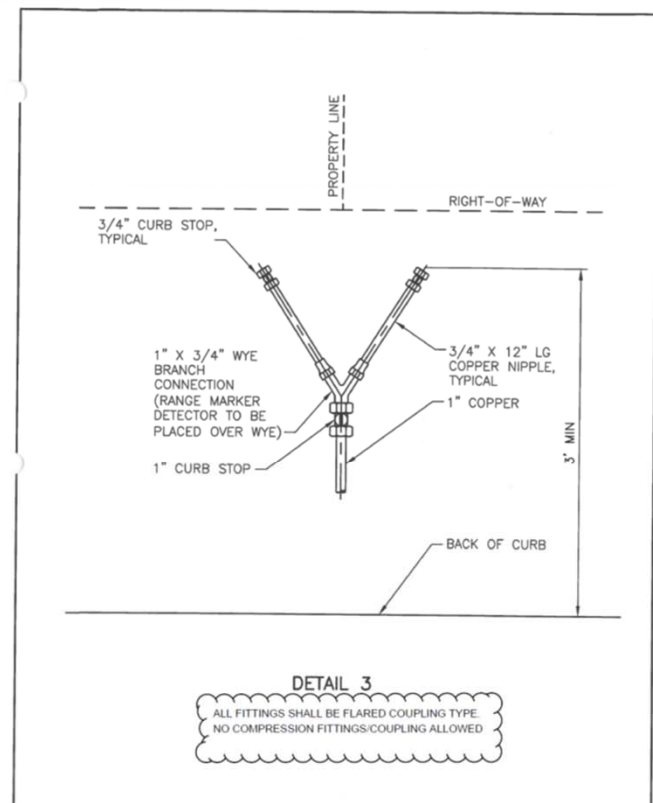
FAIROAKS ROAD WATER MAIN REPLACEMENT
CONSTRUCTION DETAILS

DESIGNED DRAWN CHECKED DATE SCALE JOB NO. SHEET REV.
 3006018 40-1

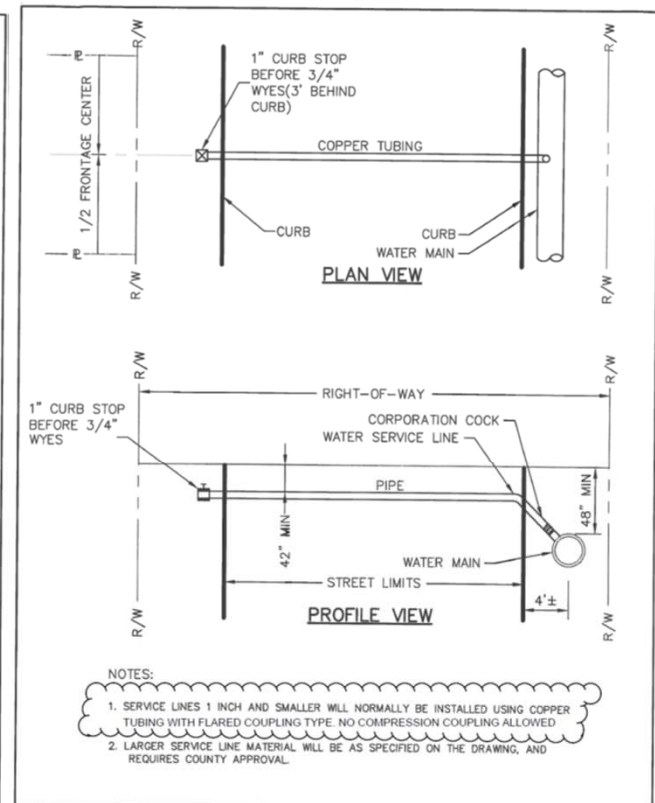
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DEKALB COUNTY, GEORGIA
 1822

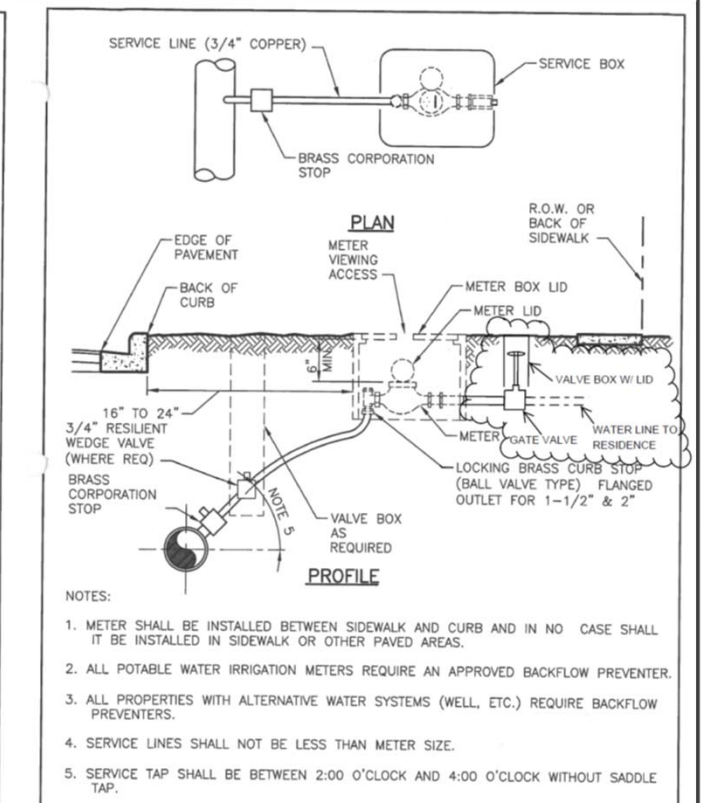
REVISION DATES



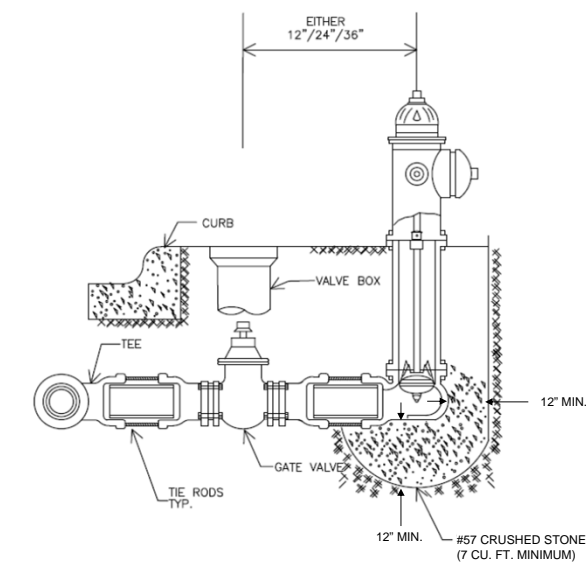
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
 Water Main Cul-de-Sac Y-branch Detail
 1" = 1'-0"
 07/08
 DETAIL NO. W-003



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
 Typical Service Line Installation
 NOT TO SCALE
 11/07
 DETAIL NO. W-008

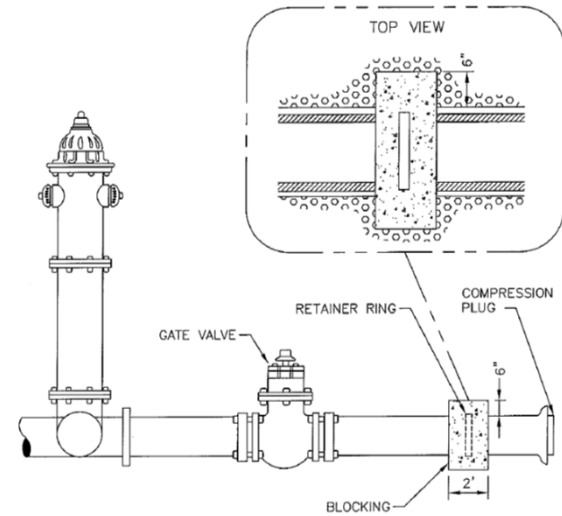


DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
 Residential Water Meter Installation Detail
 NOT TO SCALE
 07/08
 DETAIL NO. W-026

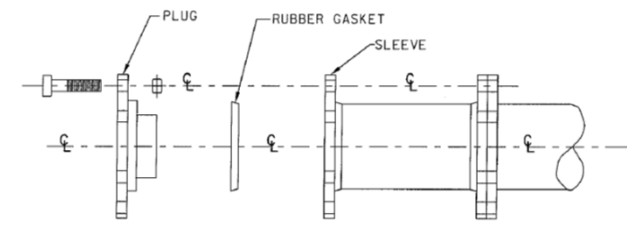


<p>McGee Partners, Inc. www.mcgeepartners.com</p>	<p>DEKALB COUNTY, GEORGIA 1822</p>	REVISION DATES	FAIROAKS ROAD WATER MAIN REPLACEMENT																																						
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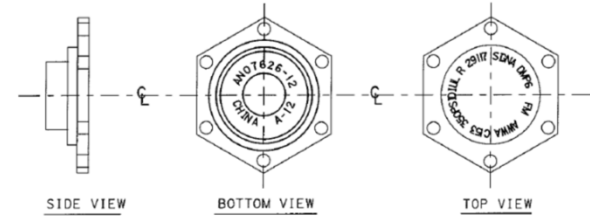
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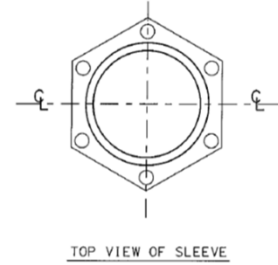
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Typical Stub-Out
 NOT TO SCALE
 11/07
 DETAIL NO. W-006



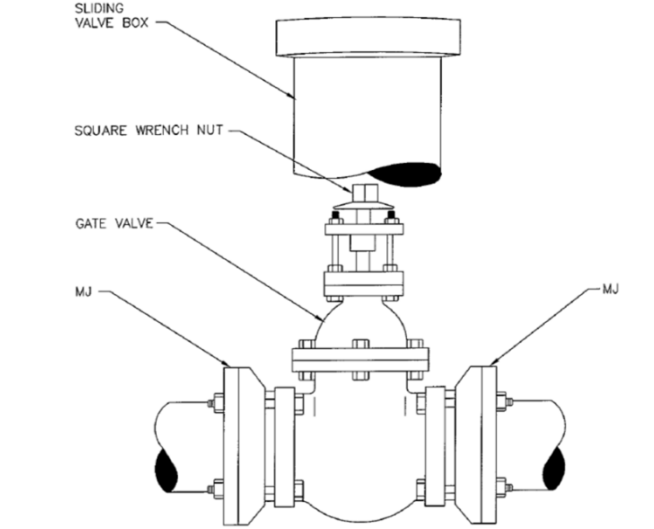
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
End of Water Line Plug & Sleeve Assembly
 NOT TO SCALE
 07/08
 DETAIL NO. W-031



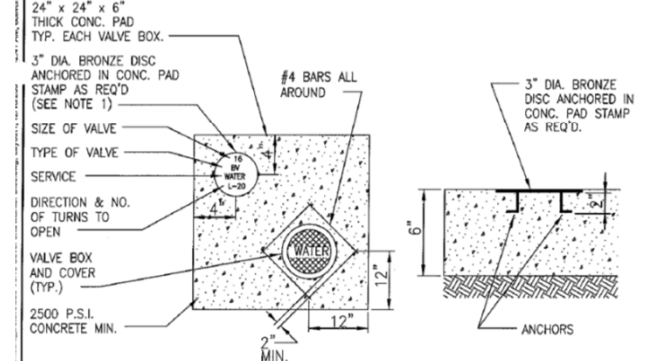
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STANDARD DETAILS
End of Water Line Plug
 NOT TO SCALE
 07/08
 DETAIL NO. W-033



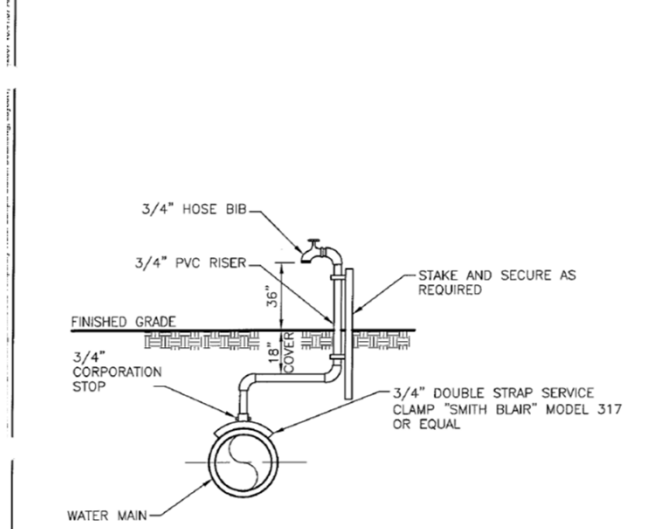
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STANDARD DETAILS
End of Water Line Sleeve Detail
 NOT TO SCALE
 07/08
 DETAIL NO. W-032



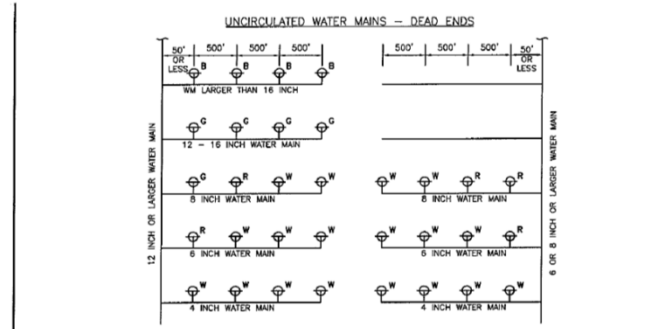
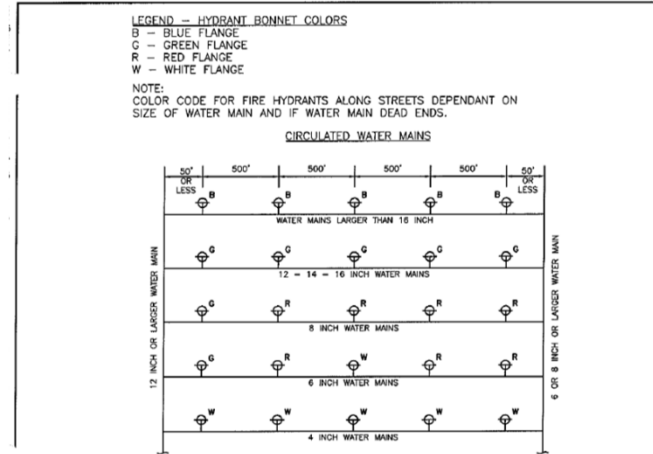
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Typical Gate Valve Installation
 NOT TO SCALE
 11/07
 DETAIL NO. W-007



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Valve Cover and Marker Disc
 NOT TO SCALE
 11/07
 DETAIL NO. W-029



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Temporary Water Sample Station Detail
 NOT TO SCALE
 11/07
 DETAIL NO. W-028



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Color Code For Fire Hydrants
 NOT TO SCALE
 11/07
 DETAIL NO. W-030

DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Temporary Water Sample Station Detail
 NOT TO SCALE
 11/07
 DETAIL NO. W-028



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REVISION DATES

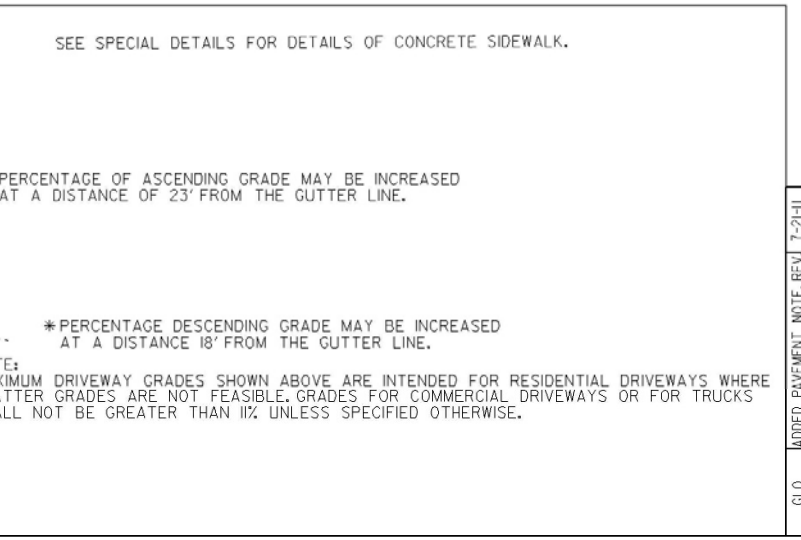
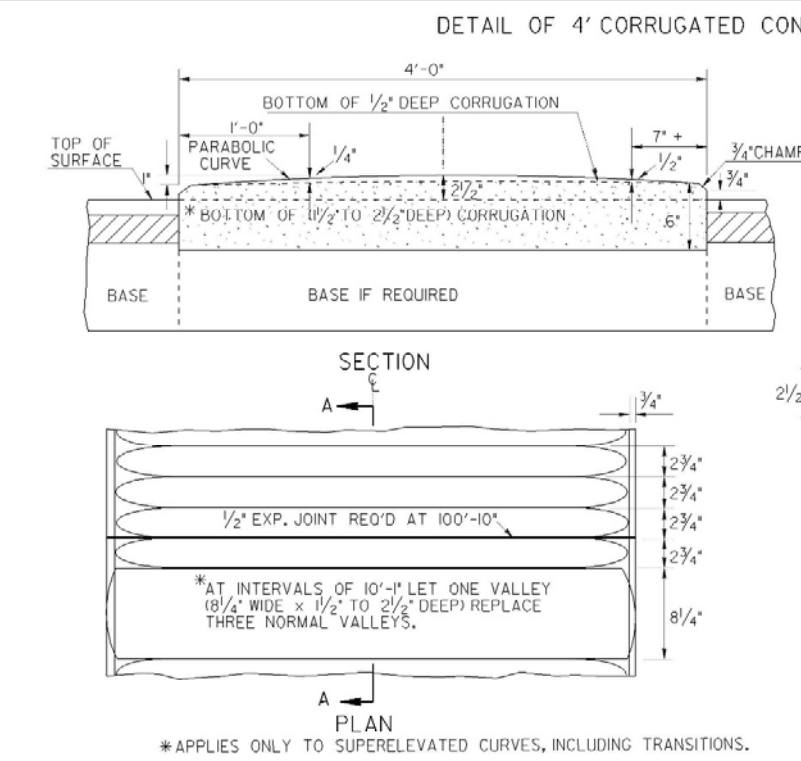
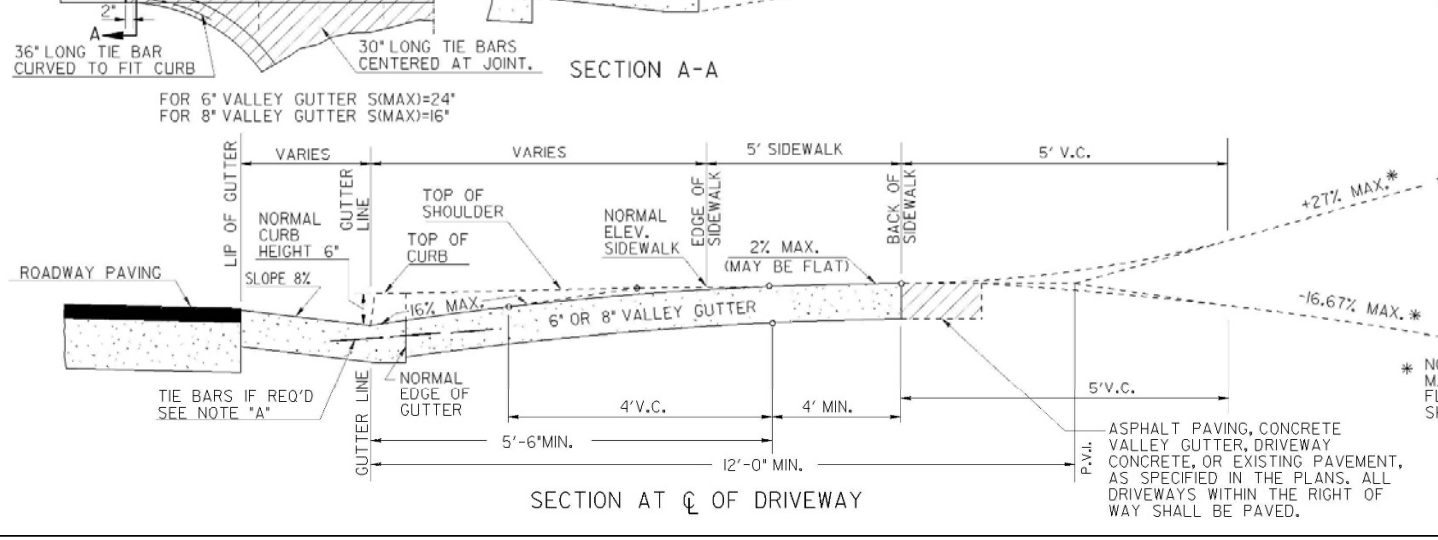
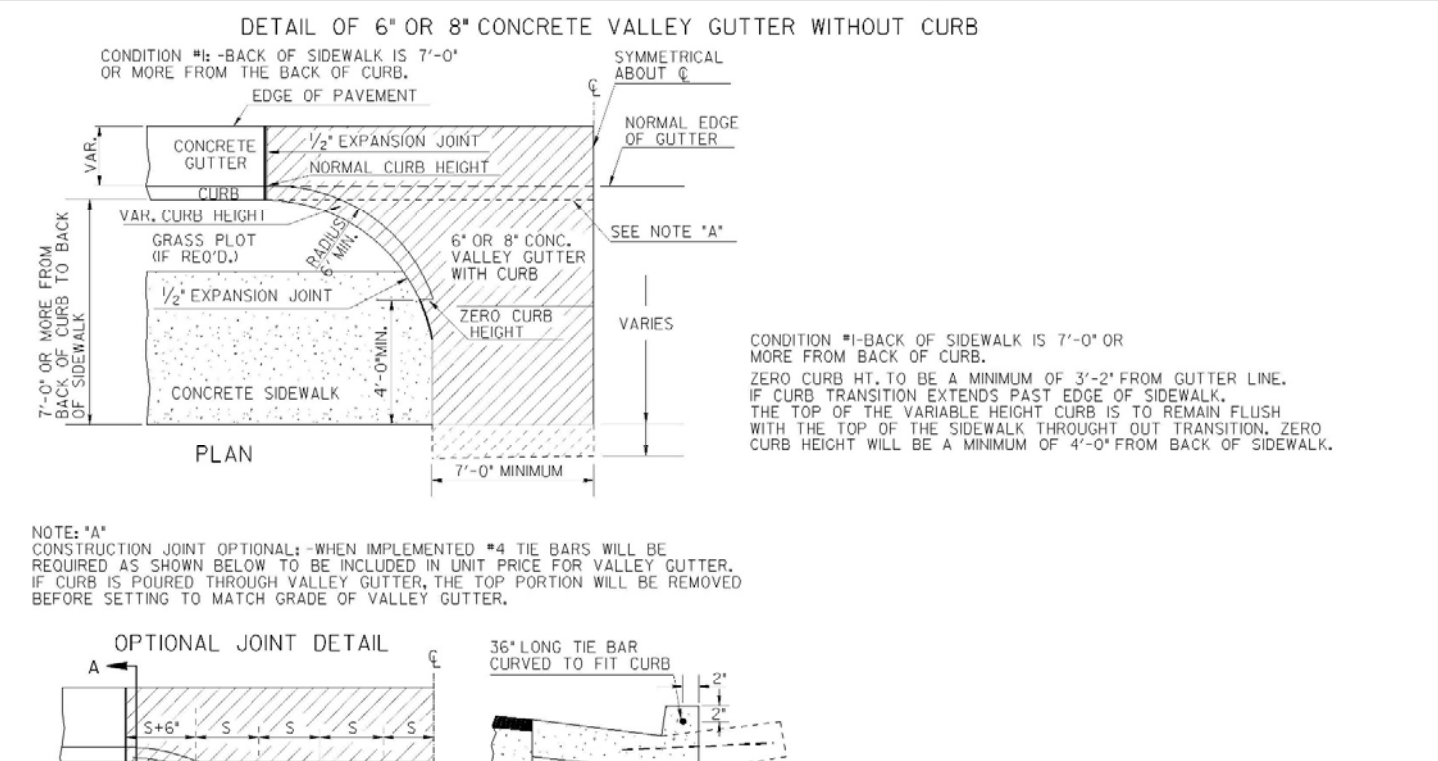
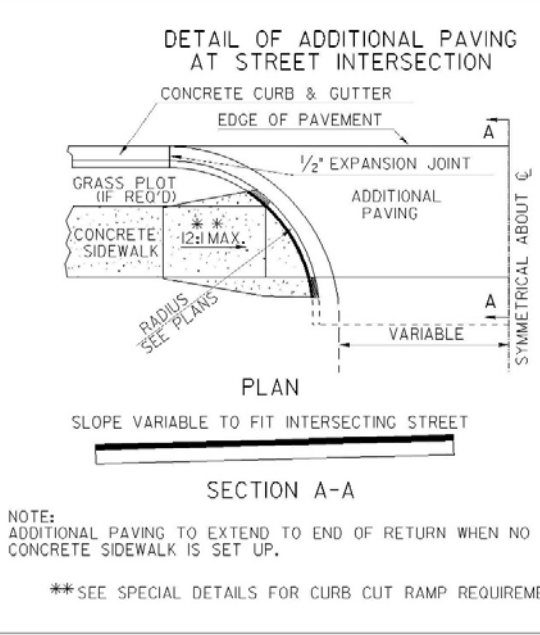
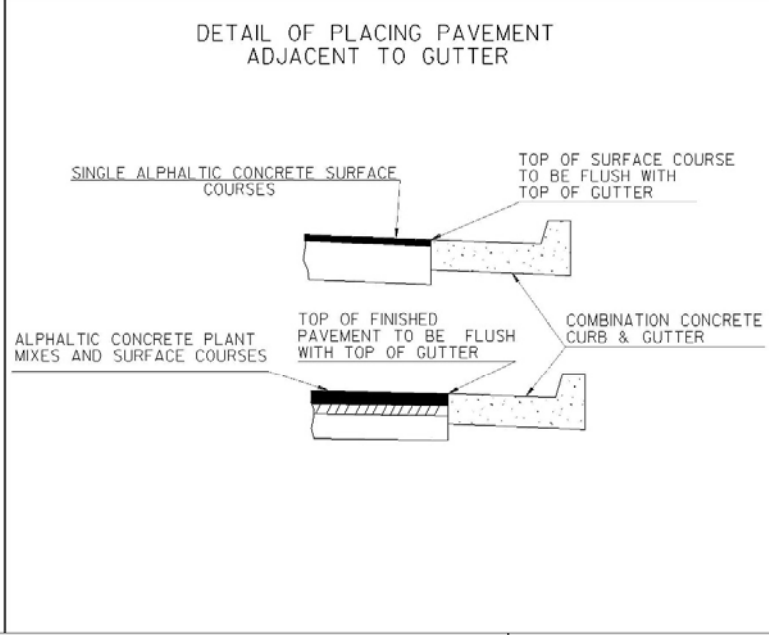
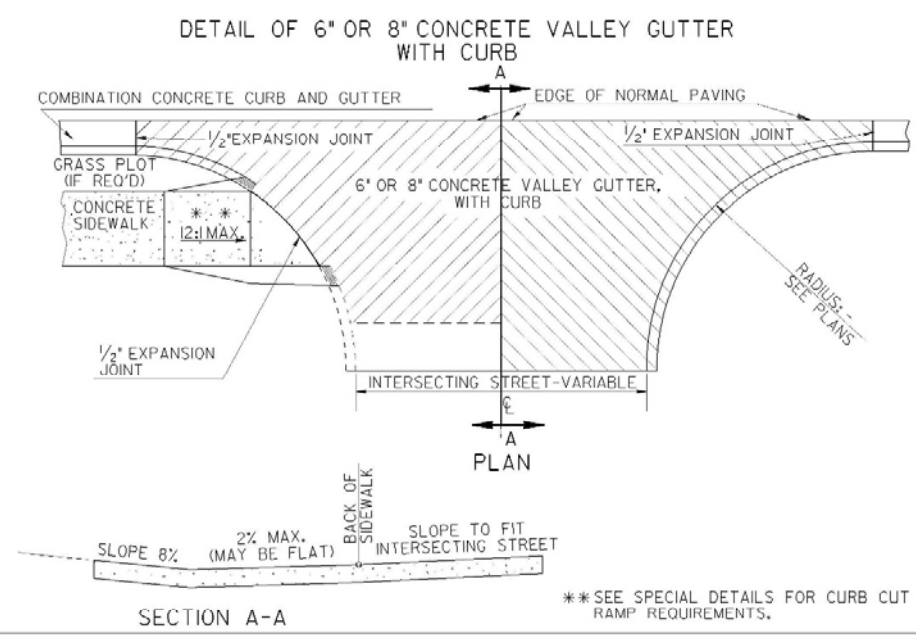
FAIROAKS ROAD WATER MAIN REPLACEMENT

CONSTRUCTION DETAILS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
					3006018	40-3	

3/7/2008
 DWB/DR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	40	72

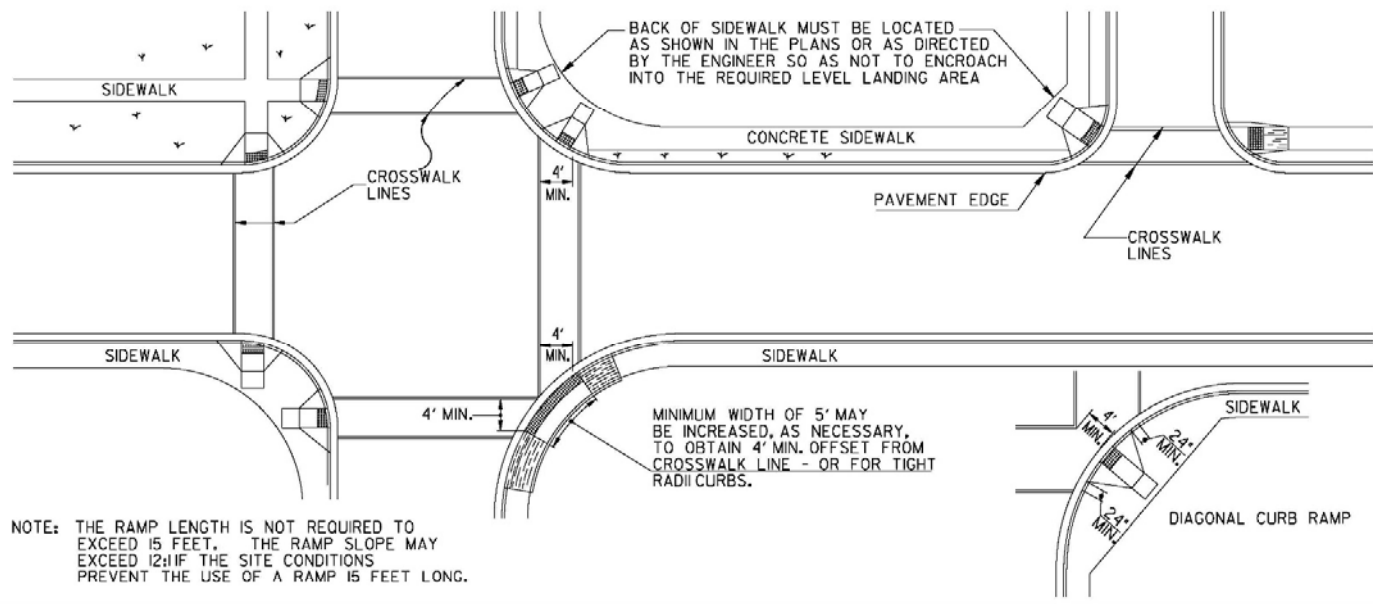


This Detail Replaces Ga Standard 9031J
Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" = 25mm, 4" = 100mm, and 12" = 300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

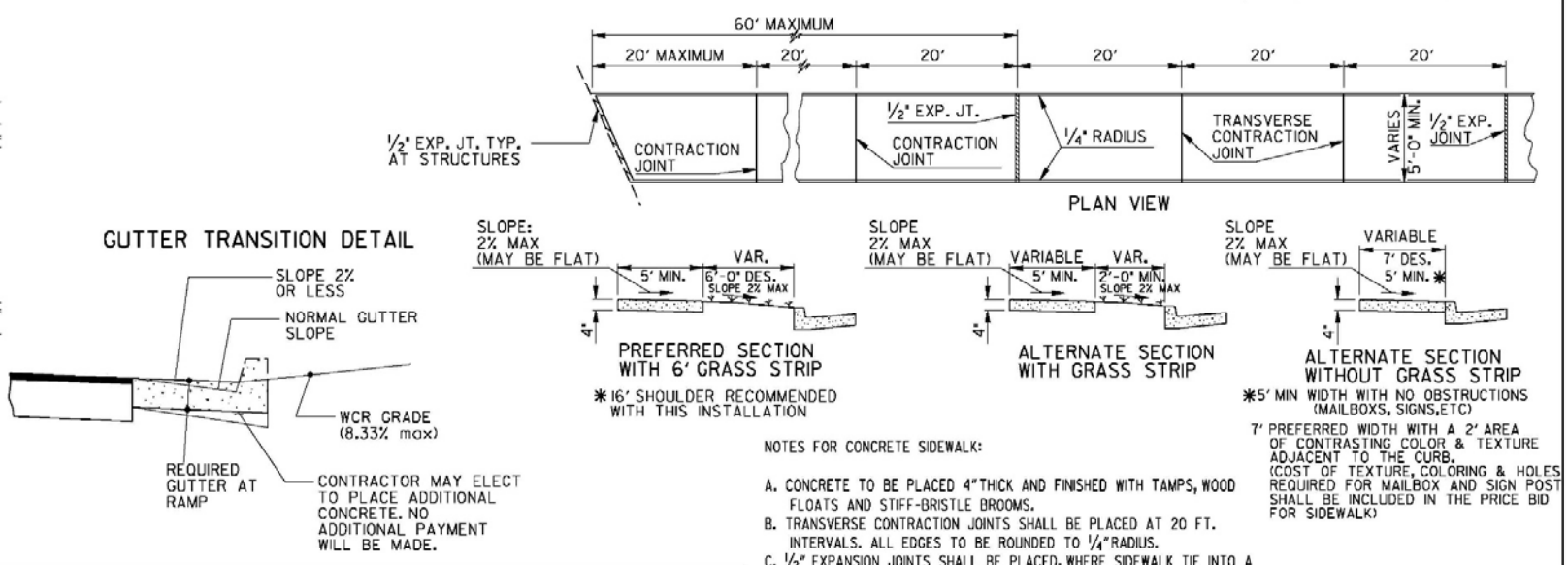
DEPARTMENT OF TRANSPORTATION		STATE OF GEORGIA	
CONSTRUCTION DETAIL			
CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE PLACING PAVEMENT ADJACENT TO GUTTER ADDITIONAL PAVING AT STREET INTERSECTION 4' CORRUGATED CONCRETE MEDIAN			
NO SCALE		MARCH 12, 2002	
NUMBER		40.04 A2	

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12% IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

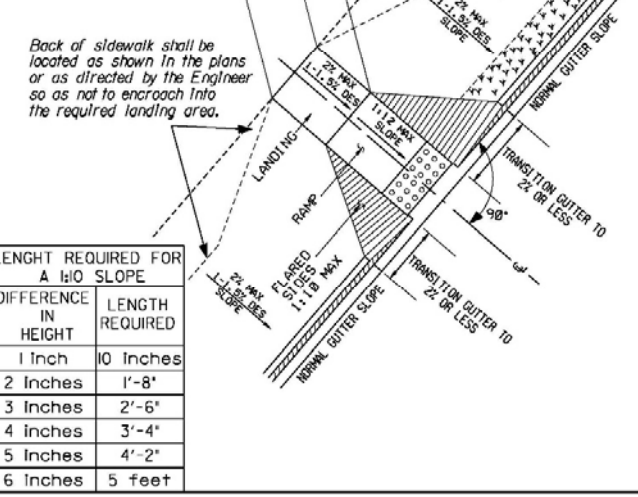
CONCRETE SIDEWALK DETAILS



- NOTES FOR CONCRETE SIDEWALK:
- CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
 - TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
 - 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.
- NOTES FOR CURB CUT RAMPS:
- CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
 - AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
 - WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
 - AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
 - RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
 - DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
 - WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
 - WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
 - 10 FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. 50 YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
 - WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
 - DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

Type A

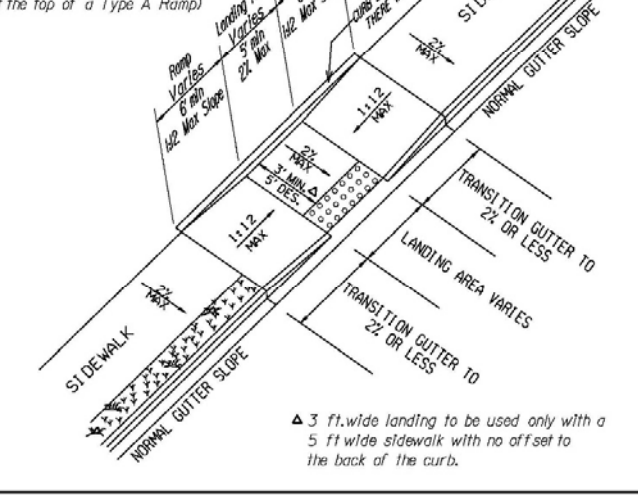
(Perpendicular)
(The Preferred Ramp)



DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

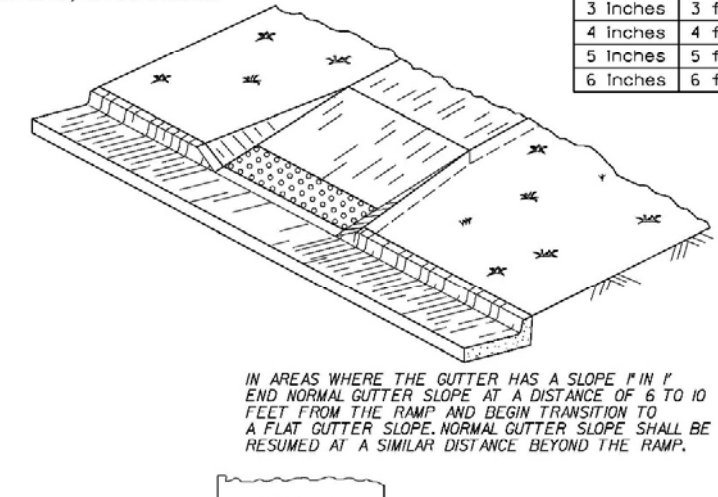
Type B

(Parallel)
(Normally used when space is not available for a landing at the top of a Type A Ramp)



Type D

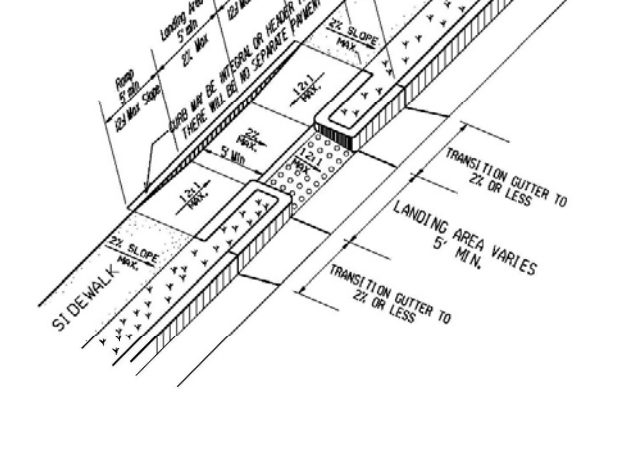
(Perpendicular)
(Normally used when the sidewalk ties directly into the crosswalk)



DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet

Type C

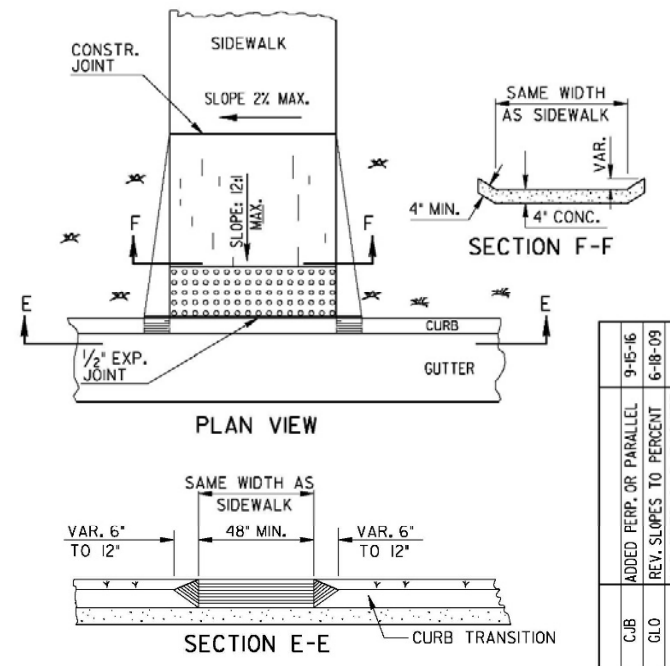
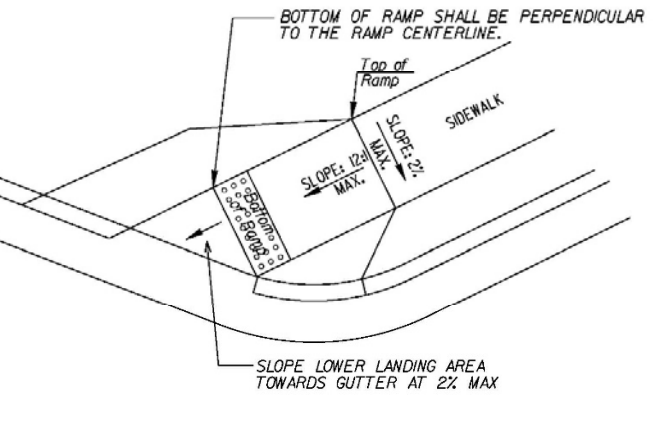
(Parallel)



Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

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DATE	REVISION	DESCRIPTION
9-15-16	ADDED PERP. OR PARALLEL	
6-18-09	REV. SLOPES TO PERCENT	
6-18-09	AND ADDED 12% & 10% CHART.	
5-10-06	ADDED GEN. NOTE NO. 8.	
2-21-03	REV. TRUNCATED DOWNS	
2-10-03	REVISED	
7-29-02	REVISED	
5-29-02	REVISED	
5-23-02	REVISED	
5-13-02	REVISED	
4-29-02	REVISED	
4-11-02	REVISED	
4-3-02	REVISED	
3-28-02	REVISED	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

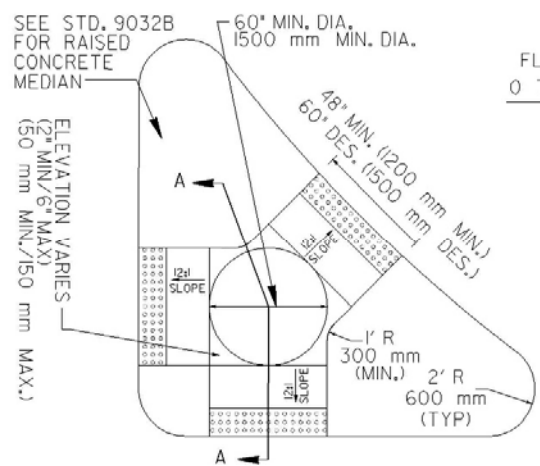
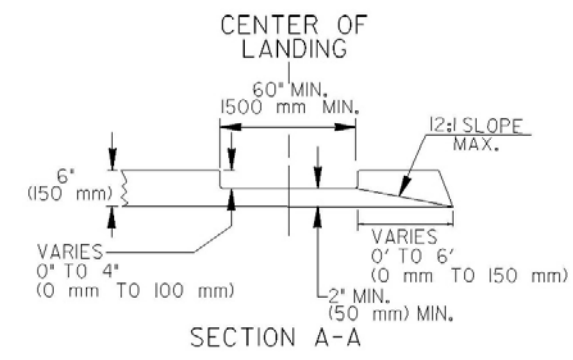
SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE

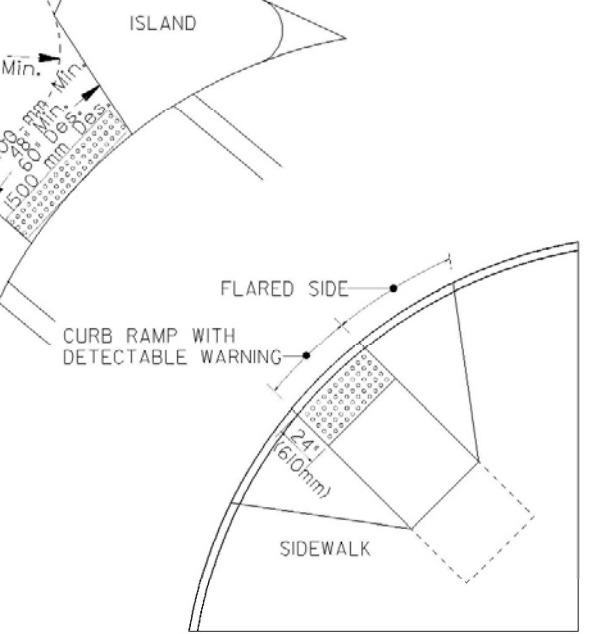
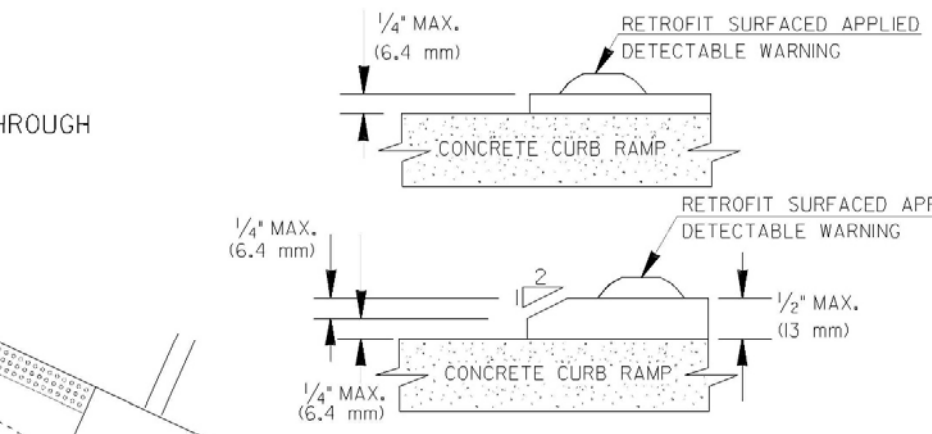
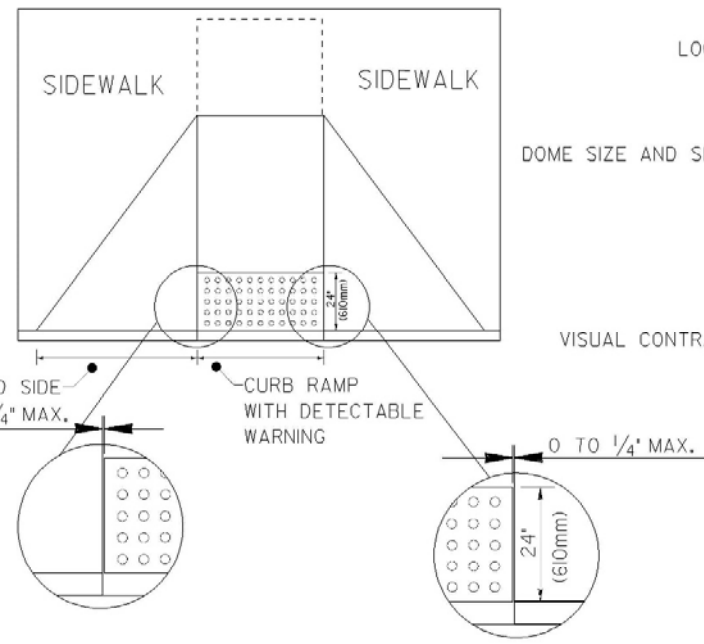
MARCH 12, 2002

NUMBER
40.05 A3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	42	72



CONCRETE ISLAND WITH ELEVATED CUT THROUGH



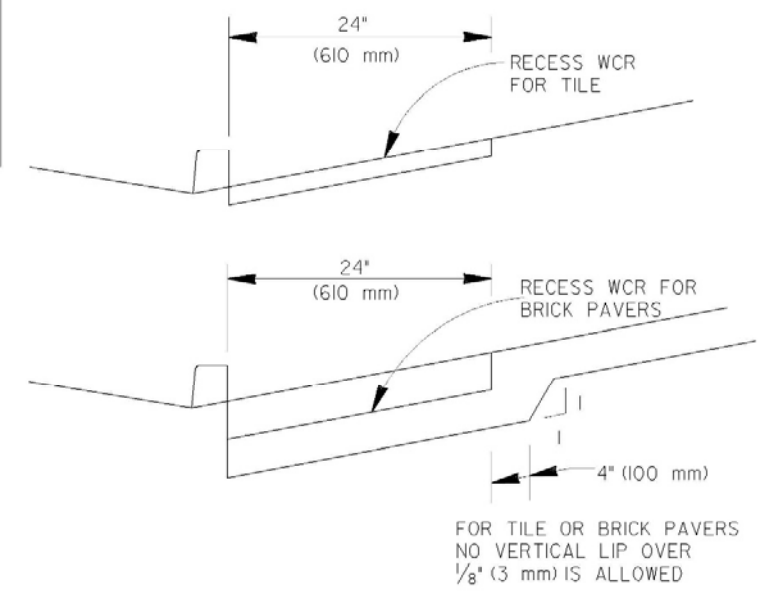
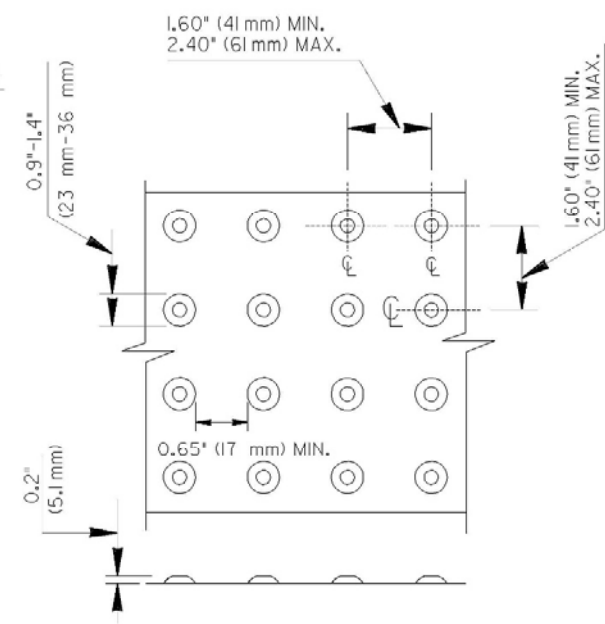
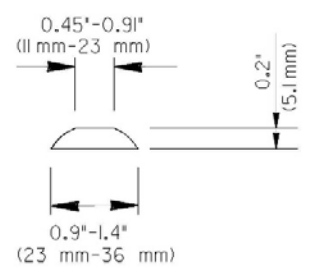
DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND

SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm TO 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOMES SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.



FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

MATERIALS:

NEW CONSTRUCTION
THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON OPL 87.

RETROFIT OF EXISTING RAMPS
SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:
BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

GENERAL NOTES:

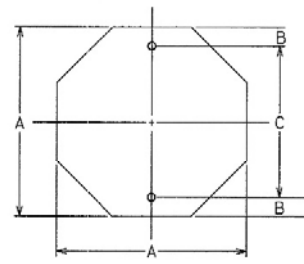
RETROFIT SURFACED APPLIED MATERIALS ONLY:

- CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
- CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

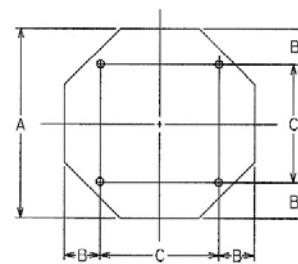
FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

6-18-09	ADDED RETROFIT DETAIL AND ADDED A.L.T. RAMP	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
GLO	DETAIL AND GEN. NOTES	REVISION	
GLO	ADDED TOLERANCE TO DTL.	REVISION	
GLO	REVISED TRUNCATED DOMES	REVISION	
GLO	AND NOTES.	REVISION	
BY			DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
BY			SPECIAL DETAIL DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS
NO SCALE			MARCH 12, 2002
40.06			NUMBER A4

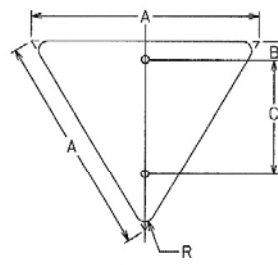


OCTAGON

A	B	C	R
24	3	18	
30	3	24	
36	3	30	

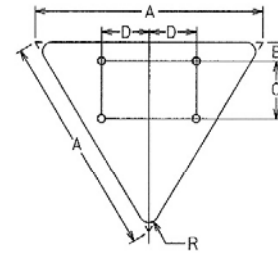


A	B	C
48	9	30

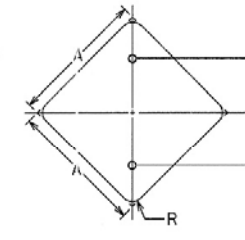


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

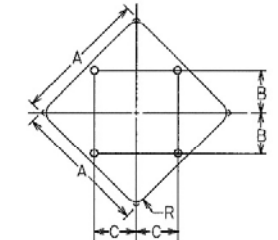


A	B	C	D	R
60	3	18	15	3



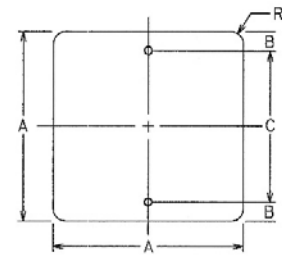
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



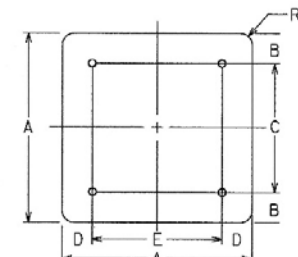
A	B	C	R
36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

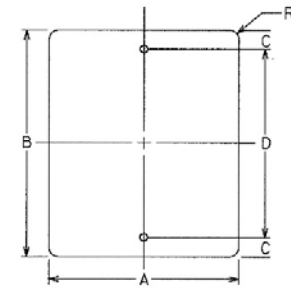


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

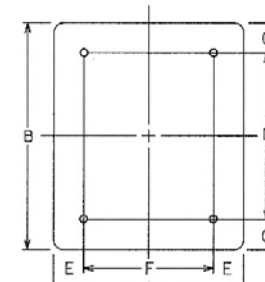


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

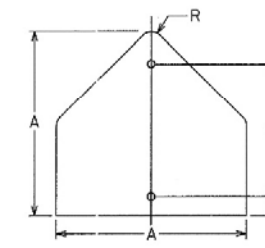


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

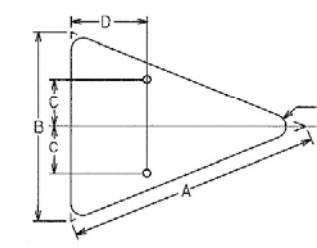


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



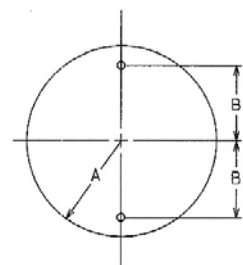
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



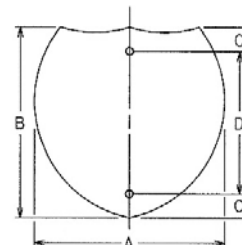
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



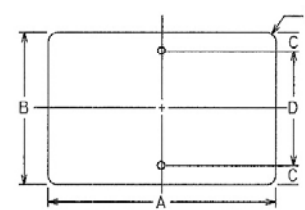
CIRCLE

A	B
15	12
18	15



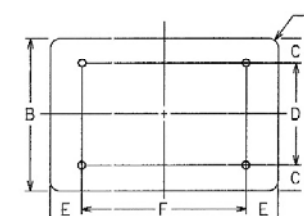
INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



HORIZONTAL RECTANGLE

A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



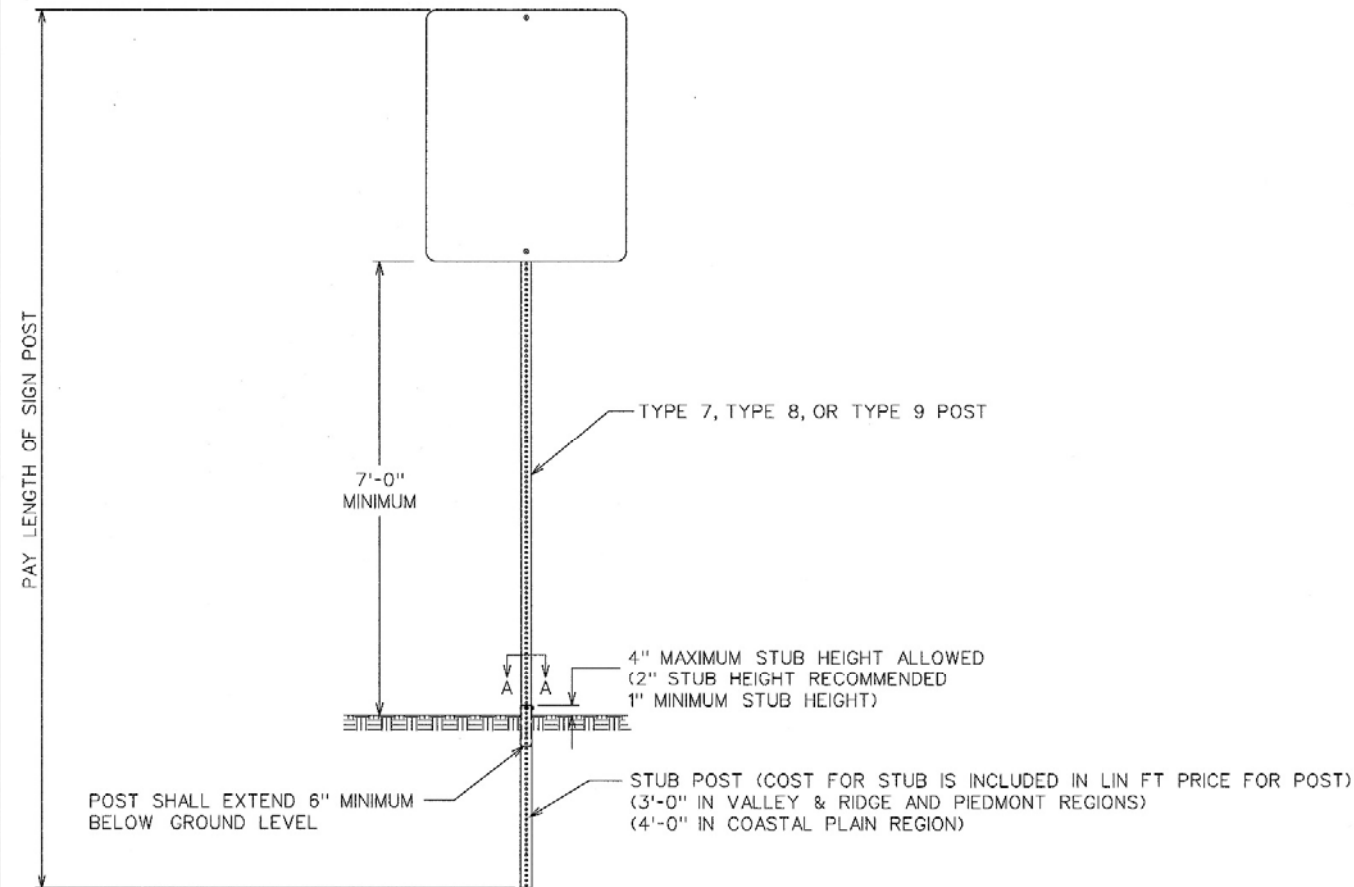
A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN

NO SCALE JANUARY 2000

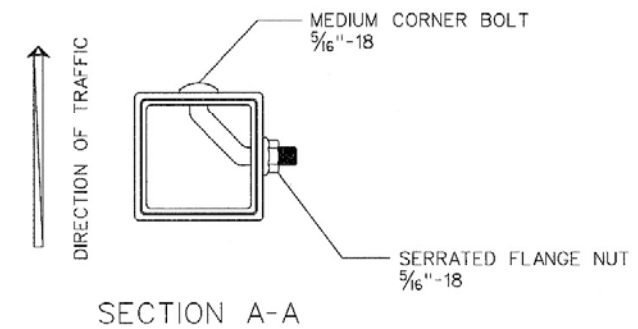
40.07

STATE	PROJECT NUMBER	SHRGT NO.	TOTAL SHRETS
GA.	ITB NO. 16-100790	44	72



FRONT VIEW

POST	STUB SIZE
TYPE 7	2 1/4" x 2 1/4"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert 2-1/2" 12 ga. W/2-1/4" 14 ga.		
	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN PLUS HALF THE HEIGHT OF SIGN.
 EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) PLUS 7 FT. = 9' CENTROID.

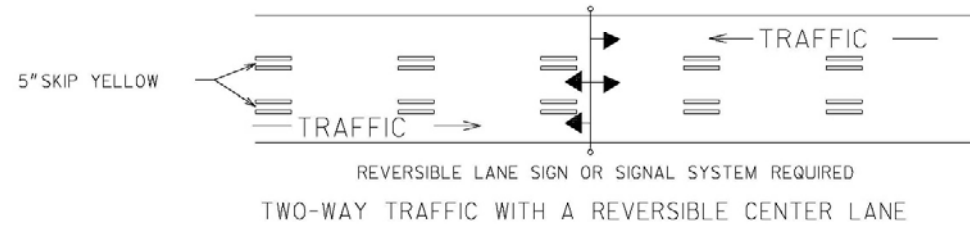
SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

TYPE 9 INSERT SHALL BE A CONTINUOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

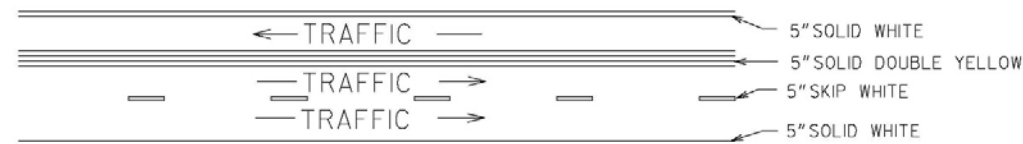
GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL
		NO SCALE
		JULY 2002

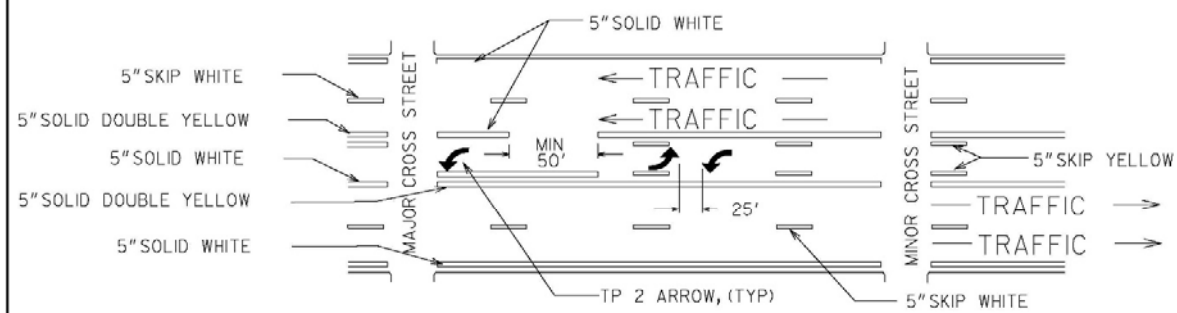
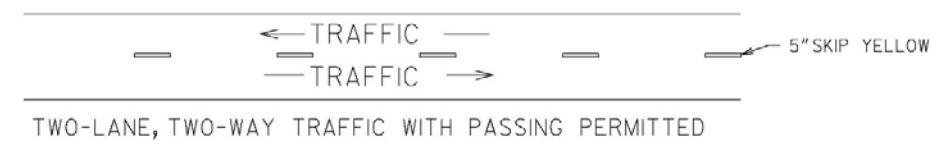
40.08



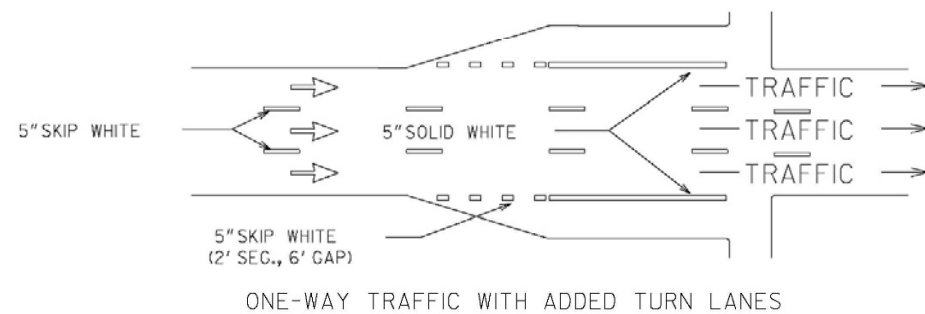
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



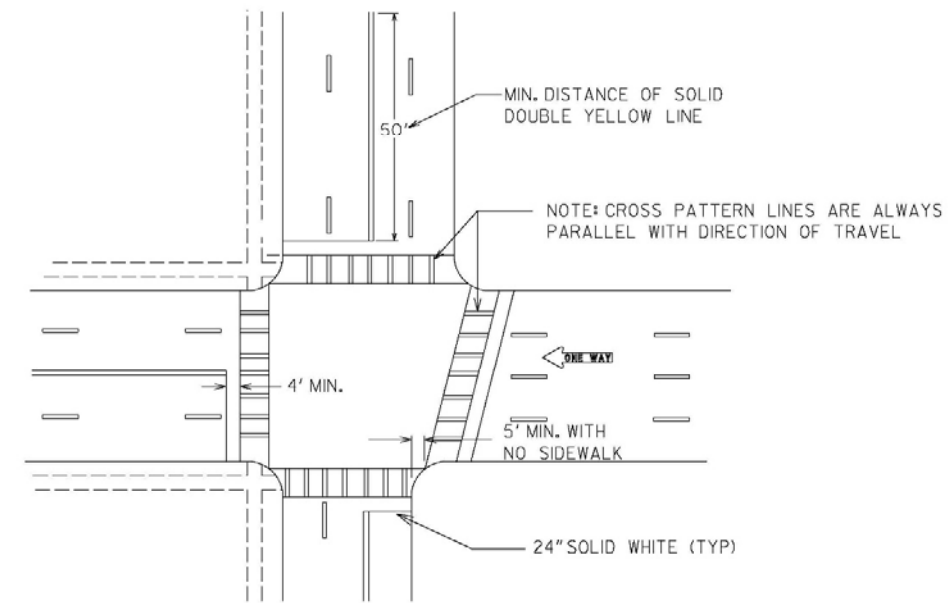
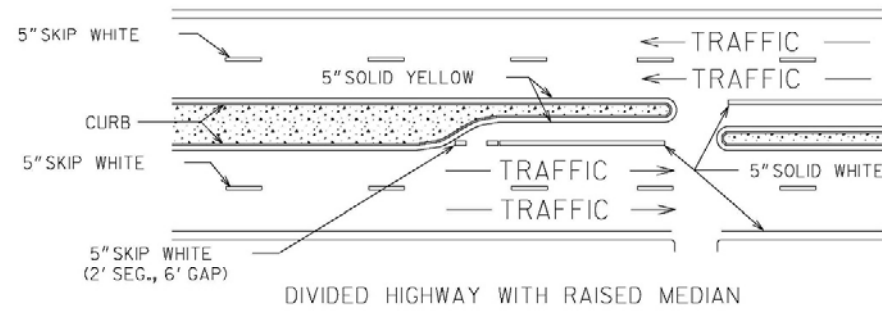
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



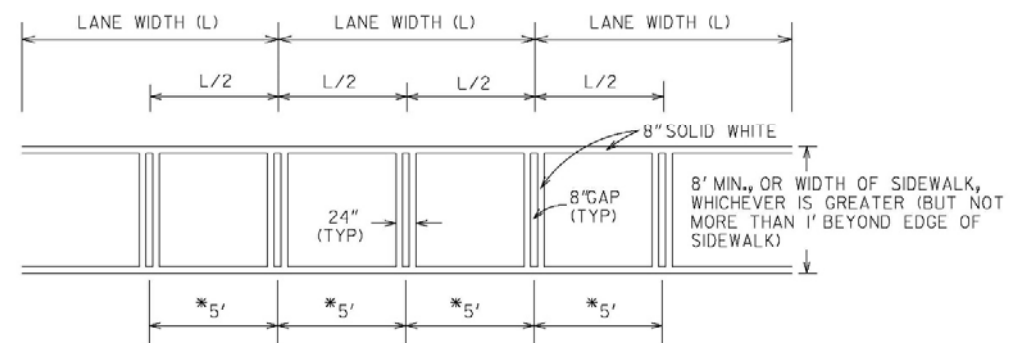
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



ONE-WAY TRAFFIC WITH ADDED TURN LANES



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

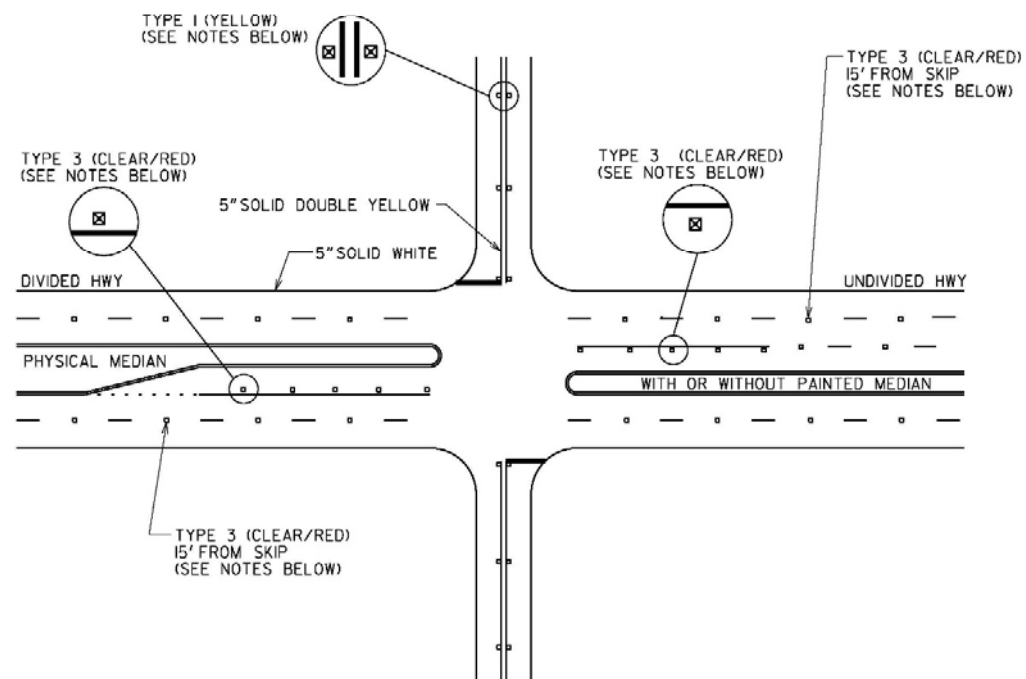
CROSSWALK DETAIL

GENERAL NOTES:

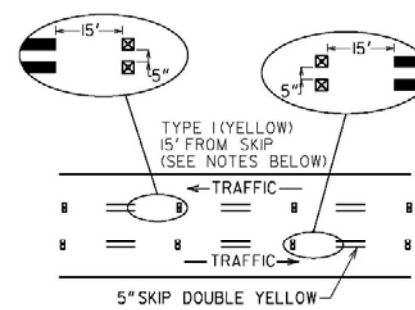
1. SPACING BETWEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIB.

9-15-16		DATE		DEPARTMENT OF TRANSPORTATION	
STATE OF GEORGIA					
ADDED GENERAL NOTE 3		REVISION		CONSTRUCTION DETAILS	
				PAVEMENT MARKING PLACEMENT	
				NON-LIMITED ACCESS ROADWAY	
NO SCALE		JANUARY 2000			
CDR	BY	DESIGNED		40.09	NUMBER T-IIA
		DRAWN			
		TRACED			
		CHECKED			

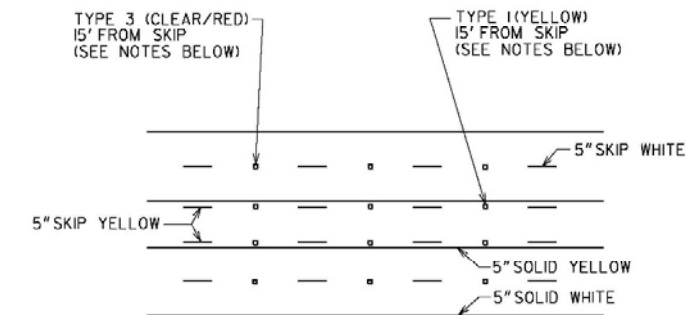
DIVIDED / UNDIVIDED HIGHWAY



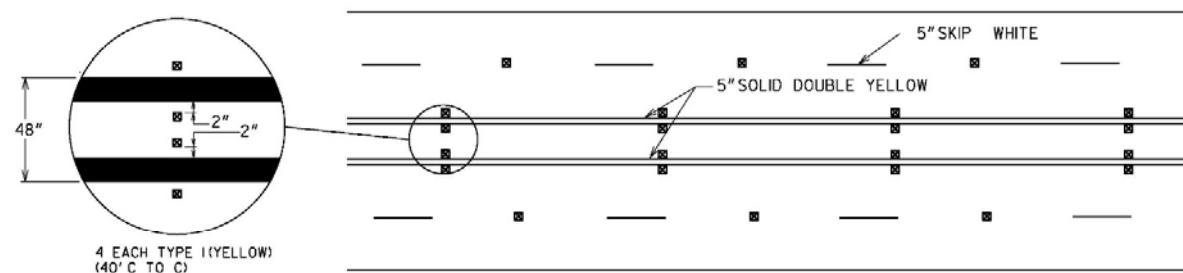
REVERSIBLE LANE



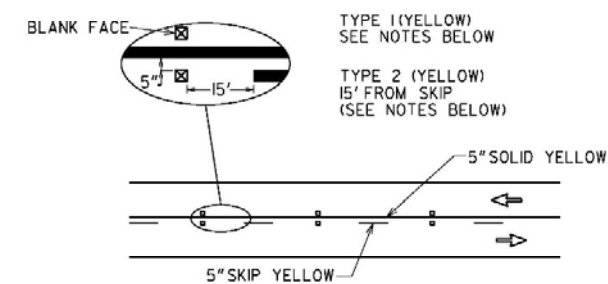
TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



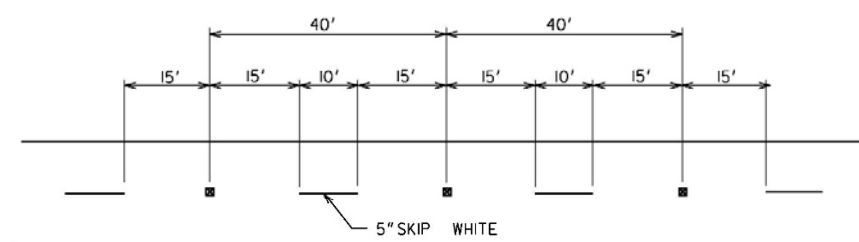
NO PASSING ZONE



GENERAL NOTES:

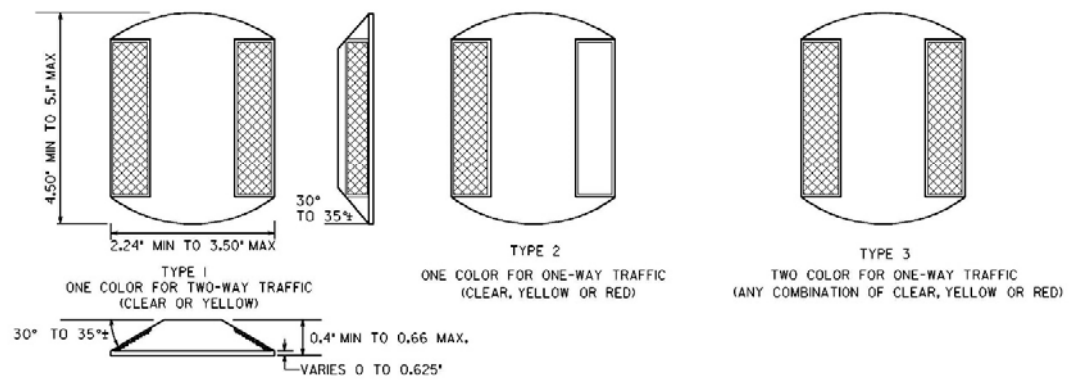
1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

TYPICAL RPM/STRIPE SPACING

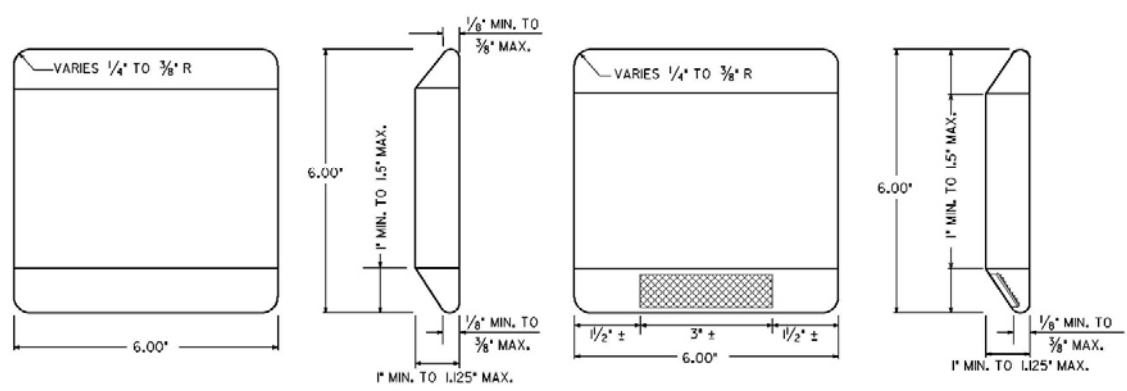
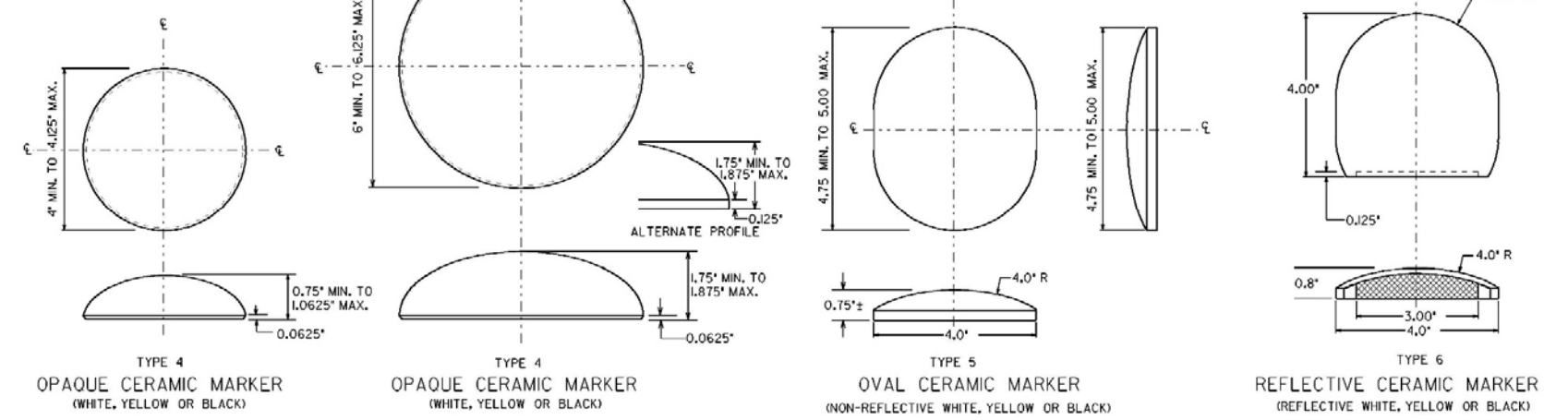


DATE		9-15-2016		DEPARTMENT OF TRANSPORTATION	
STATE		GA.		STATE OF GEORGIA	
REVISION		REV. RPM SPACING TO 40'		CONSTRUCTION DETAILS	
BY		CDR		RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	
DESIGNED		____		NO SCALE	
DRAWN		____		REV. AND REDRAWN, JUNE 2015	
TRACED		____		40.10	
CHECKED		____		NUMBER	
				T-15A	

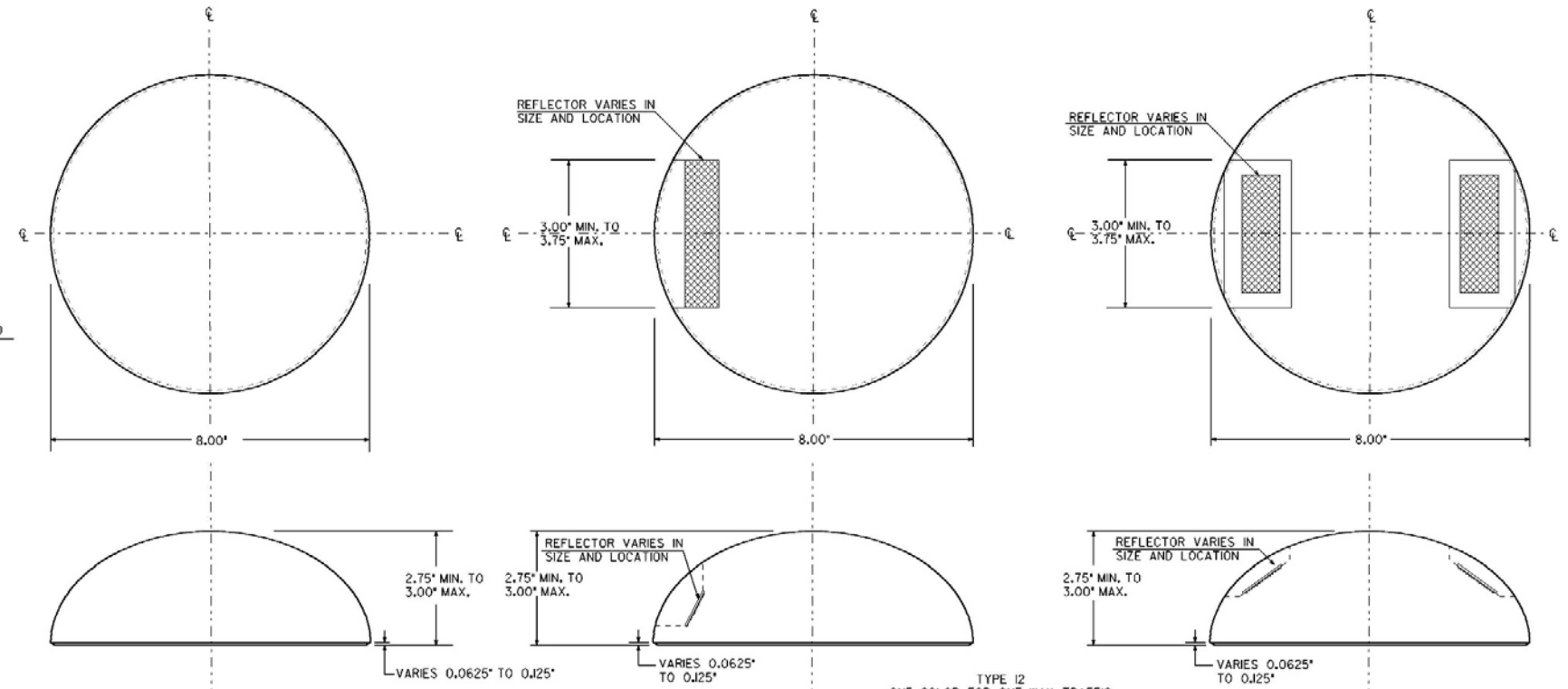
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	47	72



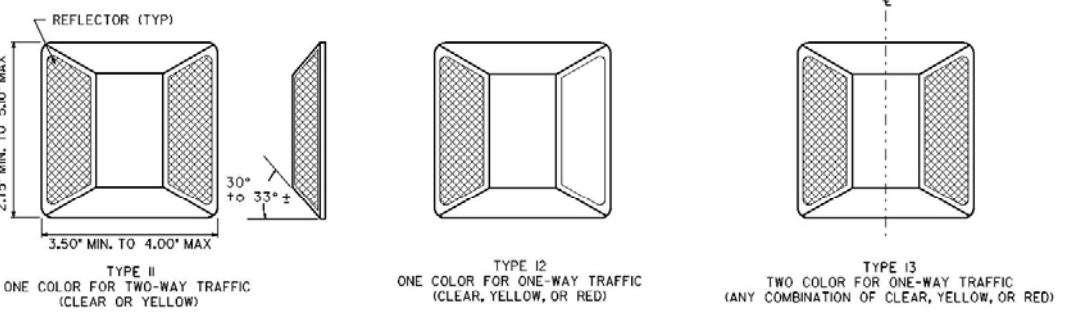
RAISED REFLECTIVE MARKERS



CERAMIC JIGGLE BAR MARKER



CERAMIC CHANNEL MARKER



ALTERNATE RAISED REFLECTIVE MARKERS

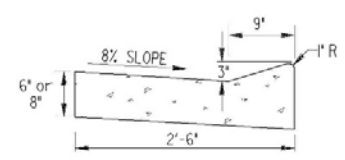
GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERE TO.
- THE CONTRACTOR SHALL USE RAISED PAVEMENT MAKER SOURCES AS LISTED IN OPL 76.
- COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
- THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
- THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
- COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
9-22-11	REV. DIMENSIONS, ADDED	
	NOTES TO MARKERS	DETAILS OF RAISED PAVEMENT MARKERS
	AND REV. GEN. NOTES.	
		NO SCALE
		JANUARY 2000

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	48	72

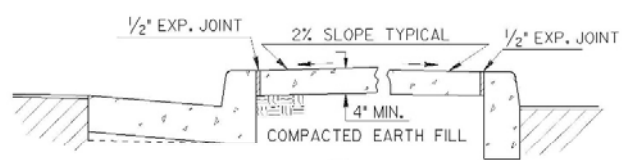
RAISED EDGE WITH CONCRETE GUTTER



SCALE: 1" = 1 FT.
 RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.

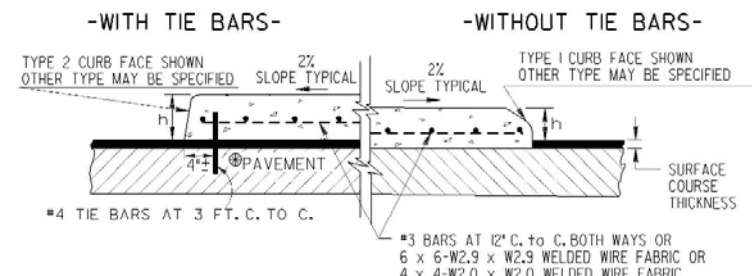


SCALE: 3/4" = 1 FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

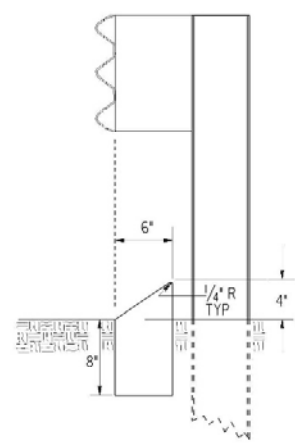
CONCRETE MEDIANS (Integral)

SCALE: 1" = 1 FT.



NOTE: IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

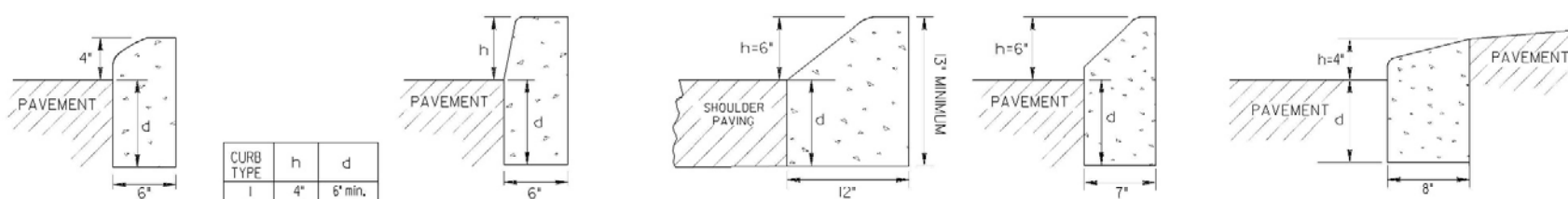
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

CONCRETE HEADER CURBS



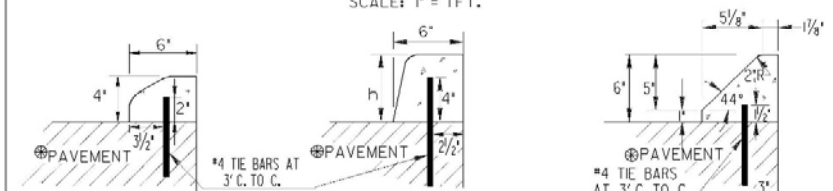
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

SCALE: 1/2" = 1 FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1 FT.



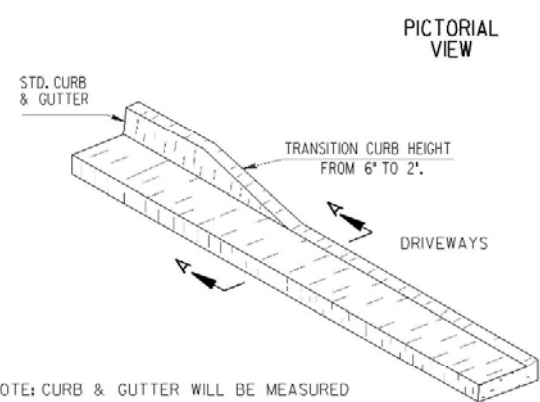
- NOTES:
- CONCRETE CURB CAN BE INSTALLED AFTER INITIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLYING CONCRETE PAVEMENT.
 - CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVEMENT.
 - JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
 - ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.

CURB TYPE	MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)	
	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

NOTE: TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE



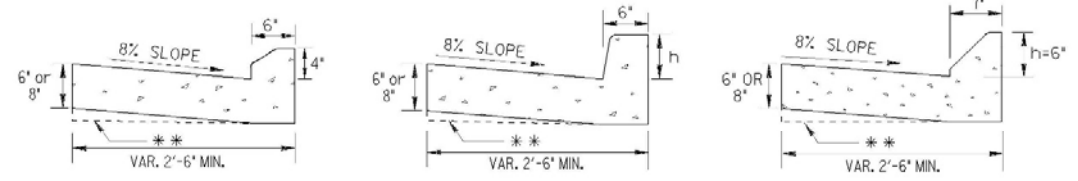
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER



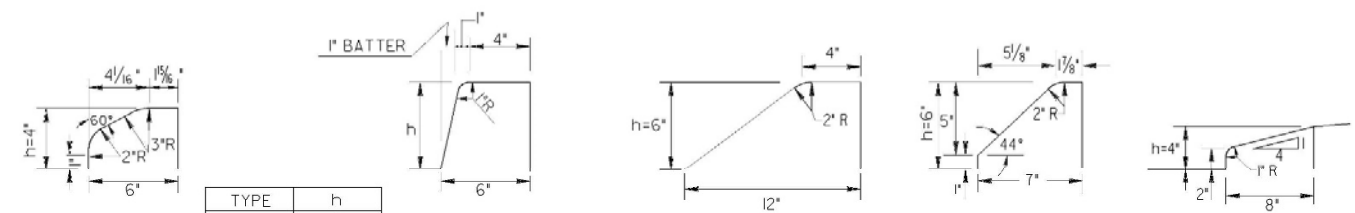
TYPE 1

TYPE 2, 3 OR 4

TYPE 7

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN



TYPE 1

TYPE 2, 3 OR 4

TYPE 6

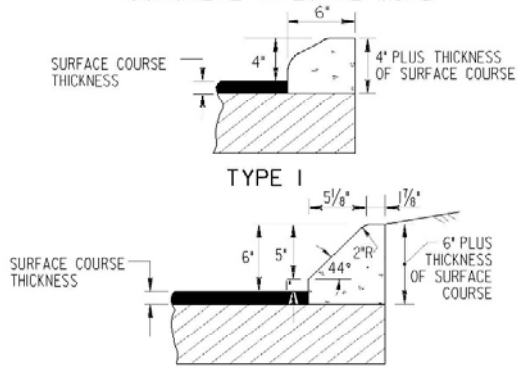
TYPE 7

TYPE 9

TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2" = 1 FT.

CONCRETE INTEGRAL CURB



TYPE 1

TYPE 7

SCALE: 1/2" = 1 FT.

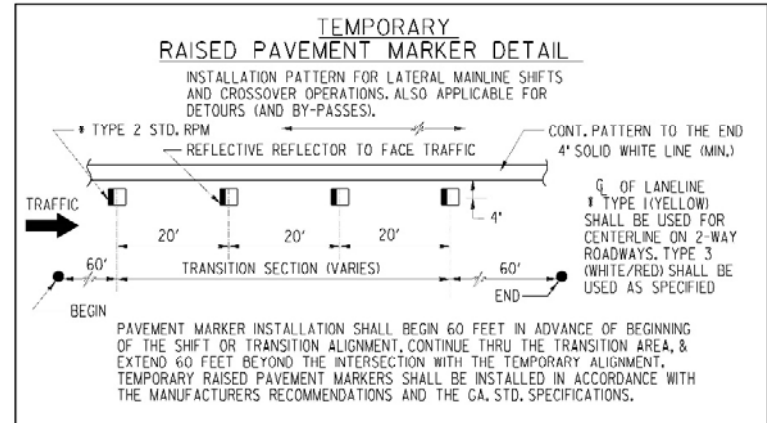
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
STANDARD		41.01	
CONCRETE CURB & GUTTER CONCRETE CURBS, CONCRETE MEDIANS			
SCALE: AS SHOWN		REVISED AND REDRAWN OCT. 2011	
DES. _____	(SUBMITTED) <i>Donal M. Run</i>	NUMBER	
DRW. _____	STATE DESIGN POLICY ENGINEER	9032B	
TRA. _____	(APPROVED) <i>Donal M. Run</i>		
CHK. _____	CHIEF ENGINEER		

GENERAL NOTES :

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
- A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
- ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150. LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL, OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
- FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMP AT ALL TIMES.
- ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
- ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
- CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
- THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES, REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
- EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.
(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STANDARD LEGEND

-  STRIPED DRUM
-  TYPE III BARRICADES
-  SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE 'C' STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
-  SEQUENTIAL OR FLASHING ARROW
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  PERMANENT TYPE POST MOUNTED SIGN
-  TEMPORARY POST MOUNTED SIGN
-  PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
-  WORK AREA
-  TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
-  FLAGGER WITH STOP-SLOW PADDLE
-  TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
-  TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
-  TYPE I YELLOW DELINEATOR - SINGLE FACE
-  TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
-  TYPE I YELLOW DELINEATOR DOUBLE FACE



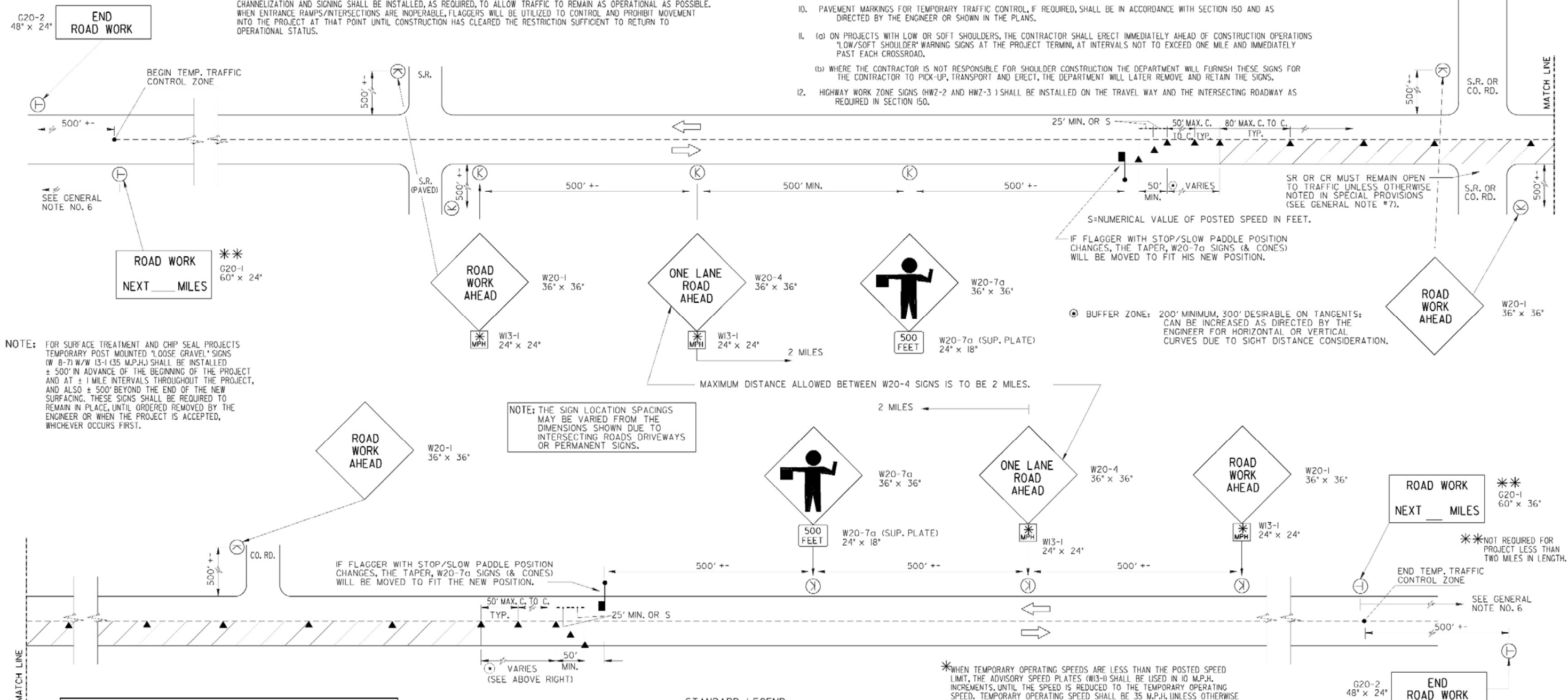
3-30-06		4-24-01		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.		SPEC. BAR. SH. SPEC.		REVISION		STANDARD 41.02 TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS	
NO SCALE						AUG., 1999	
GLO		BY		DES. (SUBMITTED) <i>[Signature]</i> STATE ROAD & AIRPORT DESIGN ENGINEER		NUMBER 9100	
				TRA. (APPROVED) <i>[Signature]</i> CHIEF ENGINEER			

GENERAL NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.

- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6) INCH ORANGE REFLECTORIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
- FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
- PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
- (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
- HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	50	72

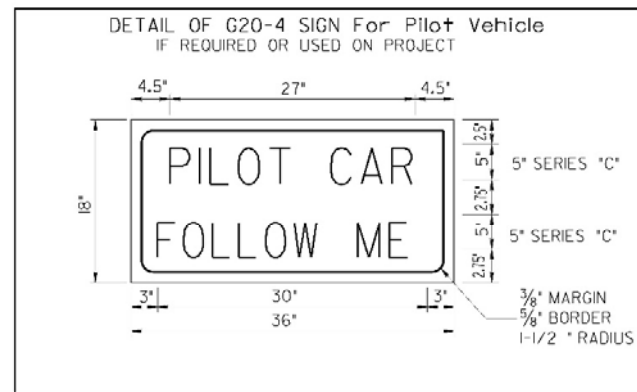


NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS DRIVEWAYS OR PERMANENT SIGNS.

⊙ BUFFER ZONE: 200' MINIMUM, 300' DESIRABLE ON TANGENTS; CAN BE INCREASED AS DIRECTED BY THE ENGINEER FOR HORIZONTAL OR VERTICAL CURVES DUE TO SIGHT DISTANCE CONSIDERATION.

*WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.



STANDARD LEGEND

- STRIPED DRUM
- ┆ PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- ⊕ TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- Ⓚ PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1 FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- ▨ WORK AREA
- ▲ TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

REMOVED FLAGS AND REV. 3-30-06		DATE	
GENERAL NOTES, REV. SIGN G20-2A TO G20-2.		REVISION	
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
STANDARD TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY 41.03			
NO SCALE		REV. & REDR. JULY, 1999	
DES.	(SUBMITTED) <i>[Signature]</i>	NUMBER 9102	
DRW.	STATE ROAD & AIRPORT DESIGN ENGINEER		
TRA.	(APPROVED) <i>[Signature]</i>		
CHK.	CHIEF ENGINEER		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN 	
F1-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL 	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



NO SCALE

REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP).
		PATTERN 	SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Toc	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING.
		SYMBOL 	REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE.
		SYMBOL 	IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS.
		SYMBOL 	IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS.
		SYMBOL 	IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.
		LINE CODE 	"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.
		LINE CODE 	"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

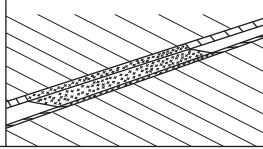
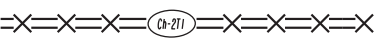
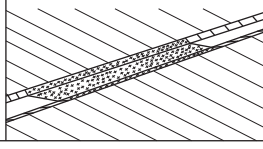
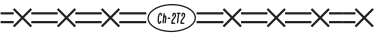
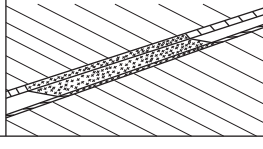
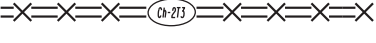
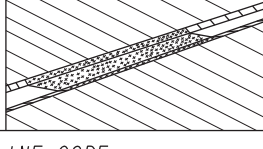
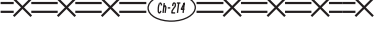
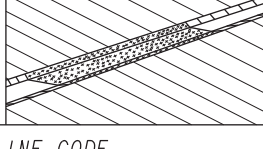
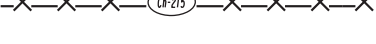
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

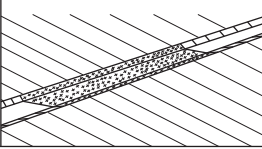
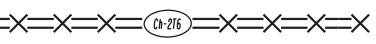
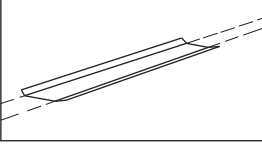
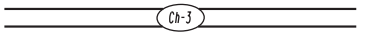
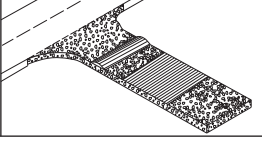

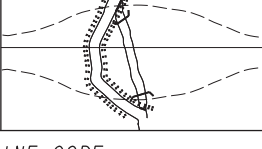
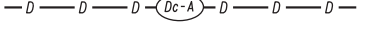


NO SCALE

REVISION DATES

EROSION CONTROL LEGEND			
UNIFORM CODE SHEET			
SHEET 2 OF 7			
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-271	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-272	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-273	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-274	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-275	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-276	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES > 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

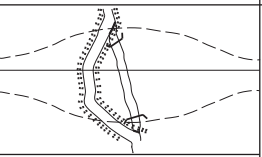

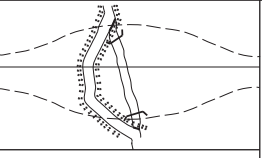

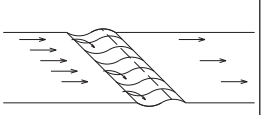
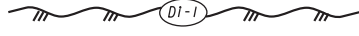
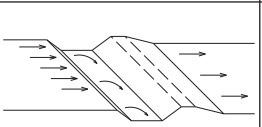
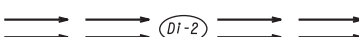
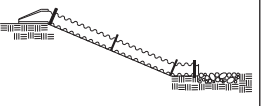
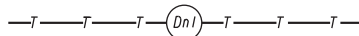


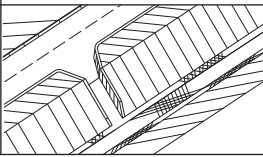
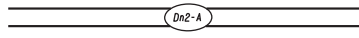
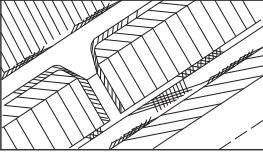
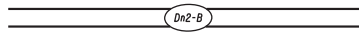
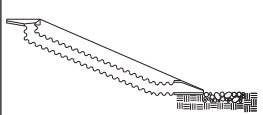
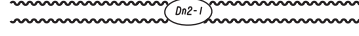
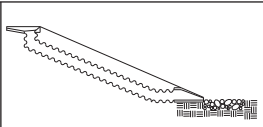
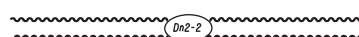
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REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 3 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.
	LINE CODE 		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.
	LINE CODE 		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS *Dn1* OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION.
	LINE CODE 		REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	LINE CODE 		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



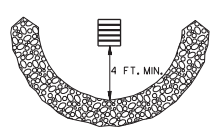

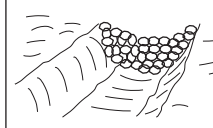




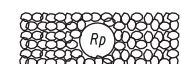
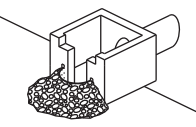

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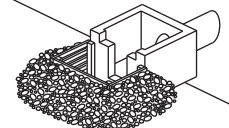

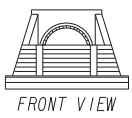
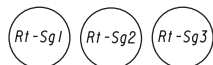
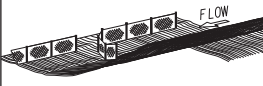

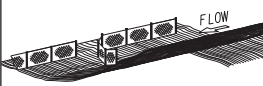

REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-004
CORRECTED:	DATE:	
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.
	SYMBOL 		ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION		
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.		
	SYMBOL 				
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS		
Rt-Sg2				SYMBOL	
Rt-Sg3					
Sd1-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
	LINE CODE 				
Sd1-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
	LINE CODE 				

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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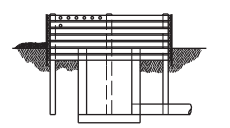

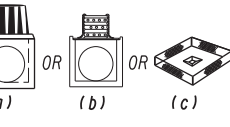

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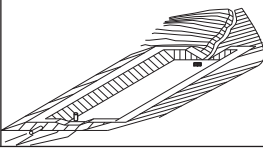
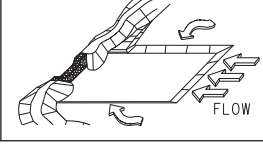
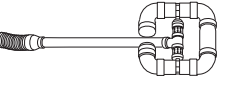
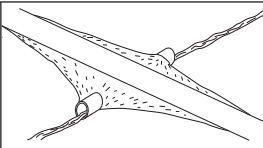
REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * Sd1-BB * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-42 SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd3		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd4-C		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL Sk		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL Sr		

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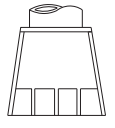

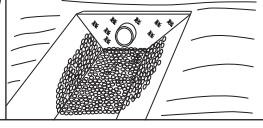
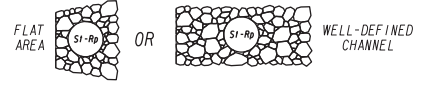
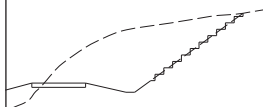
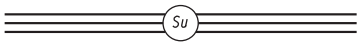
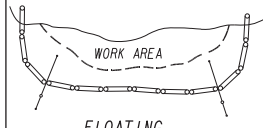

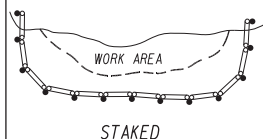

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REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	52-006
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
		SYMBOL 	
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL $d_{50} < /> 1.2$ FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR $d_{50} < /> 0.7$ FEET.
		PATTERN 	REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE 	
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
		LINE CODE 	
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
		LINE CODE 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

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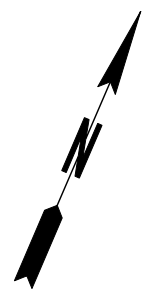
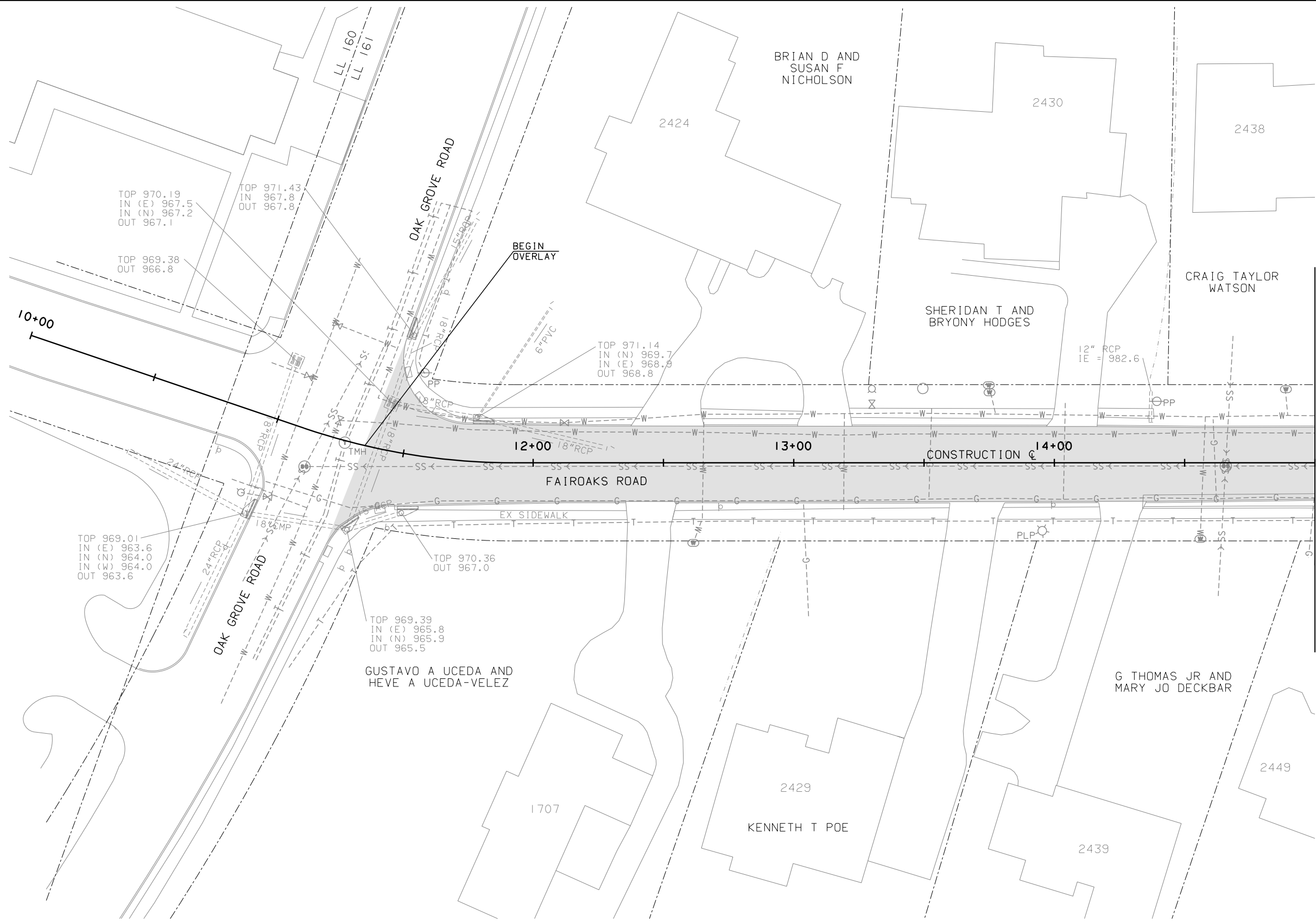


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REVISION DATES

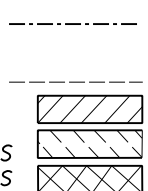
EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
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MATCH LINE STA. 15+00
 SEE SHEET 54-02

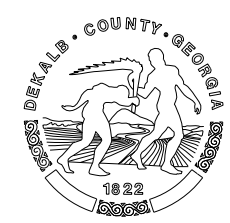
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 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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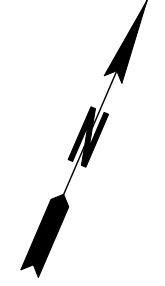
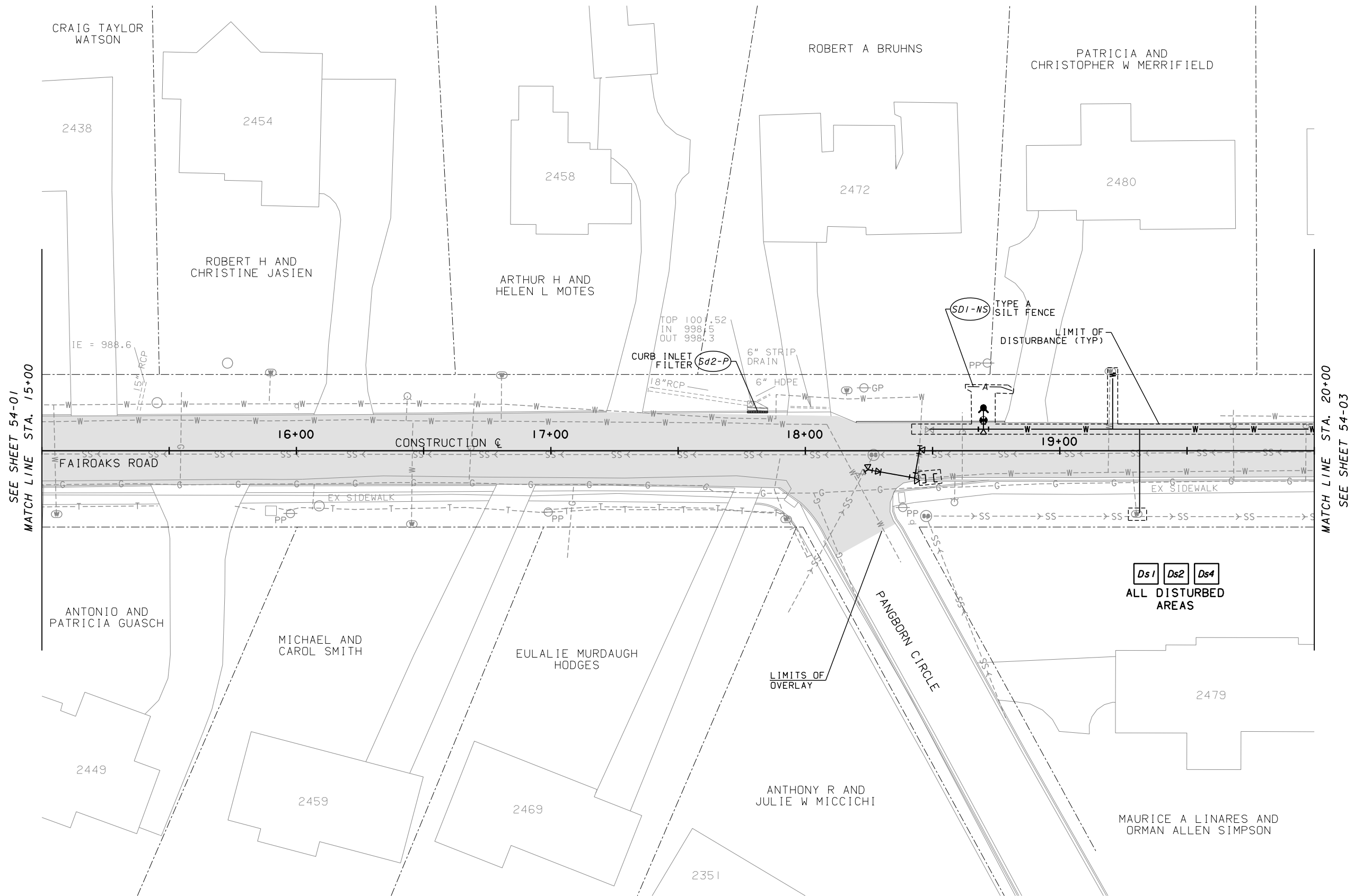


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FAIROAKS ROAD WATER MAIN REPLACEMENT						
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REV.						

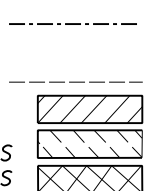


SEE SHEET 54-01
 MATCH LINE STA. 15+00

MATCH LINE STA. 20+00
 SEE SHEET 54-03

ALL DISTURBED AREAS
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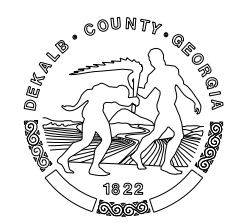
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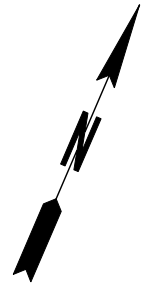
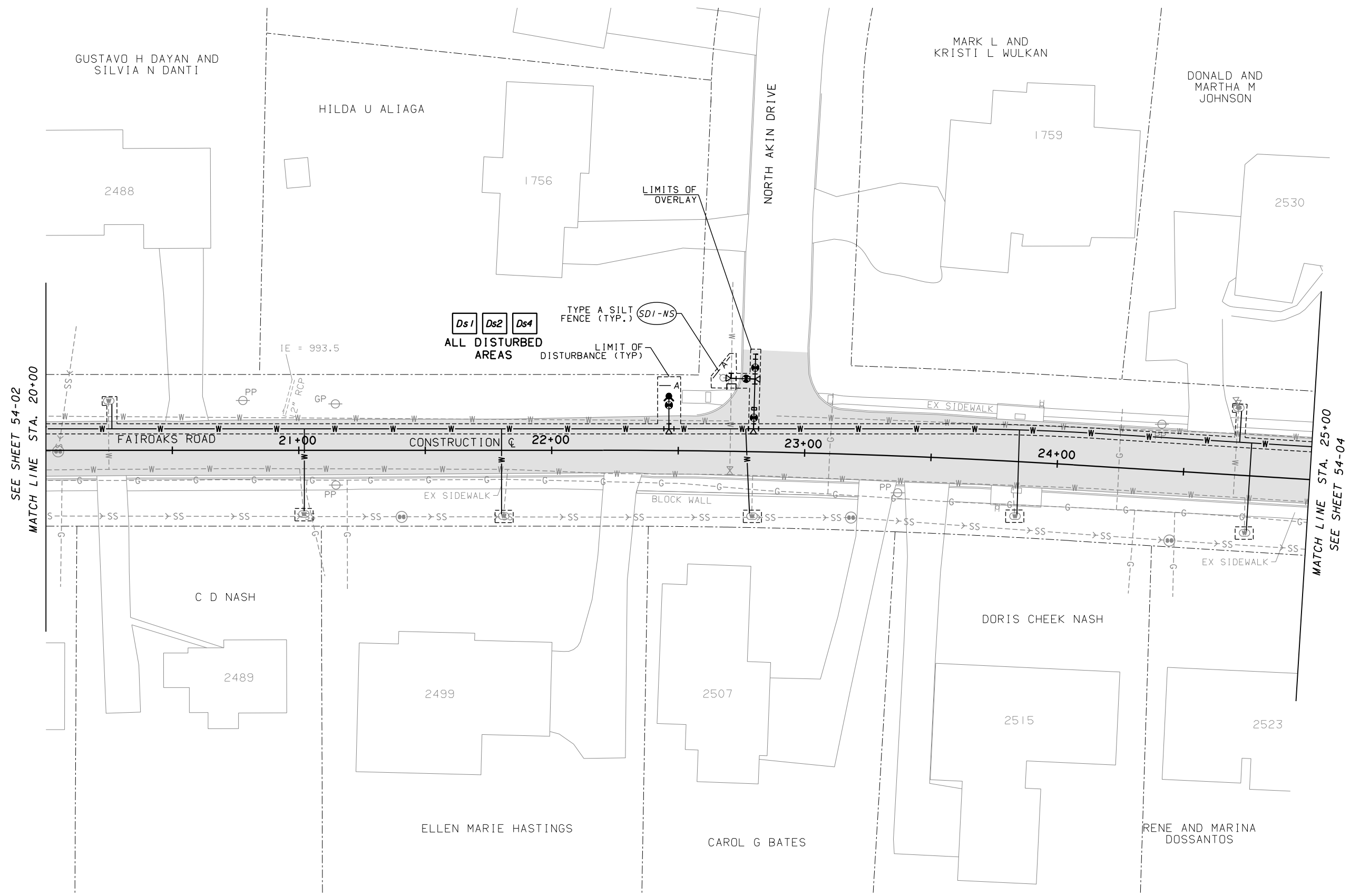


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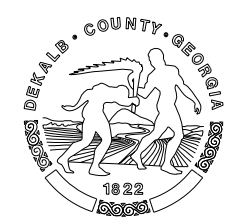


APPROXIMATE PROPERTY AND EXISTING R/W LINE
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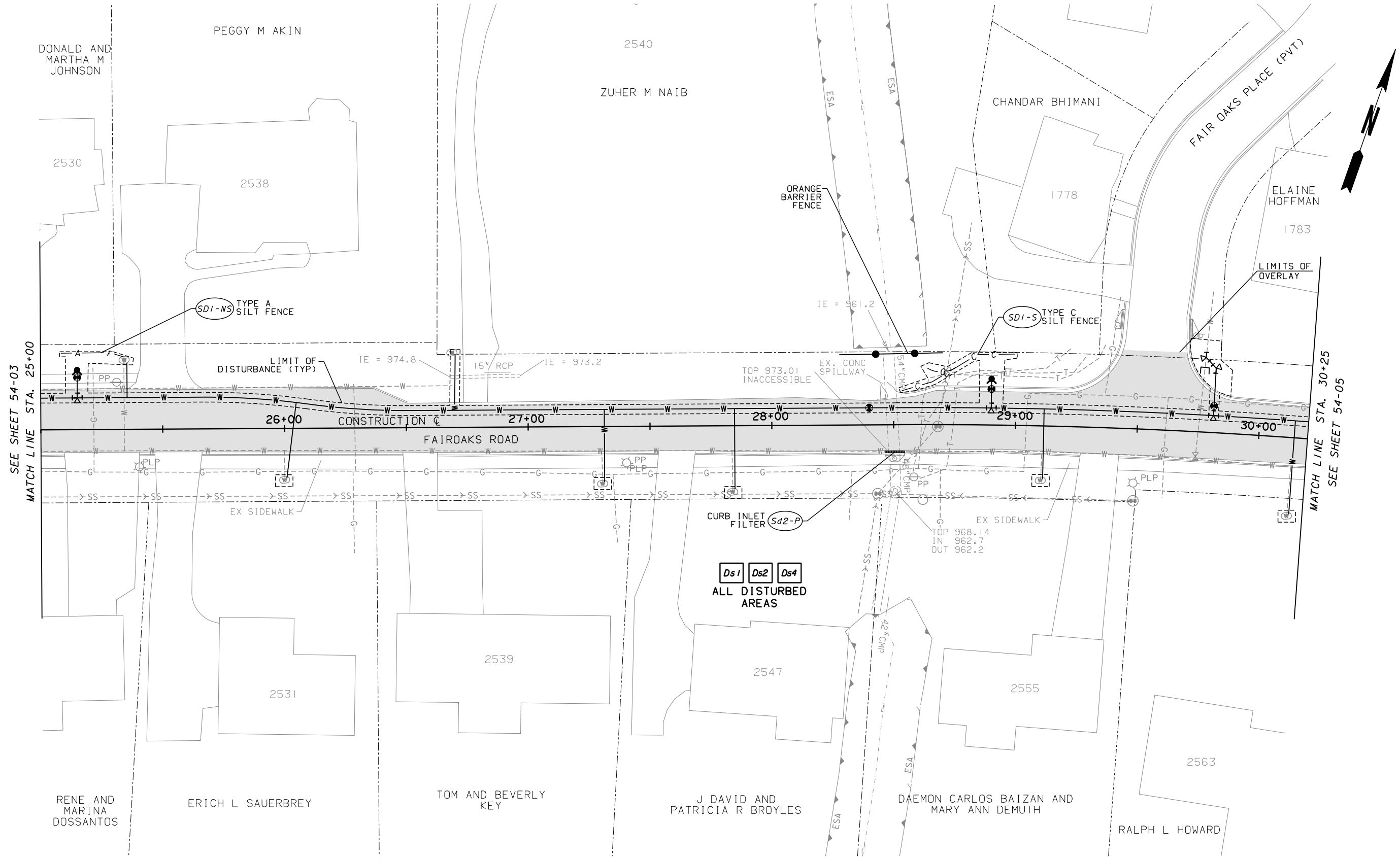
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				SHEET	REV.
				54-03	

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SEE SHEET 54-03
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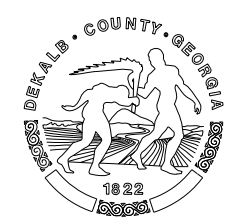
MATCH LINE STA. 30+25
SEE SHEET 54-05

APPROXIMATE PROPERTY AND EXISTING R/W LINE
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 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

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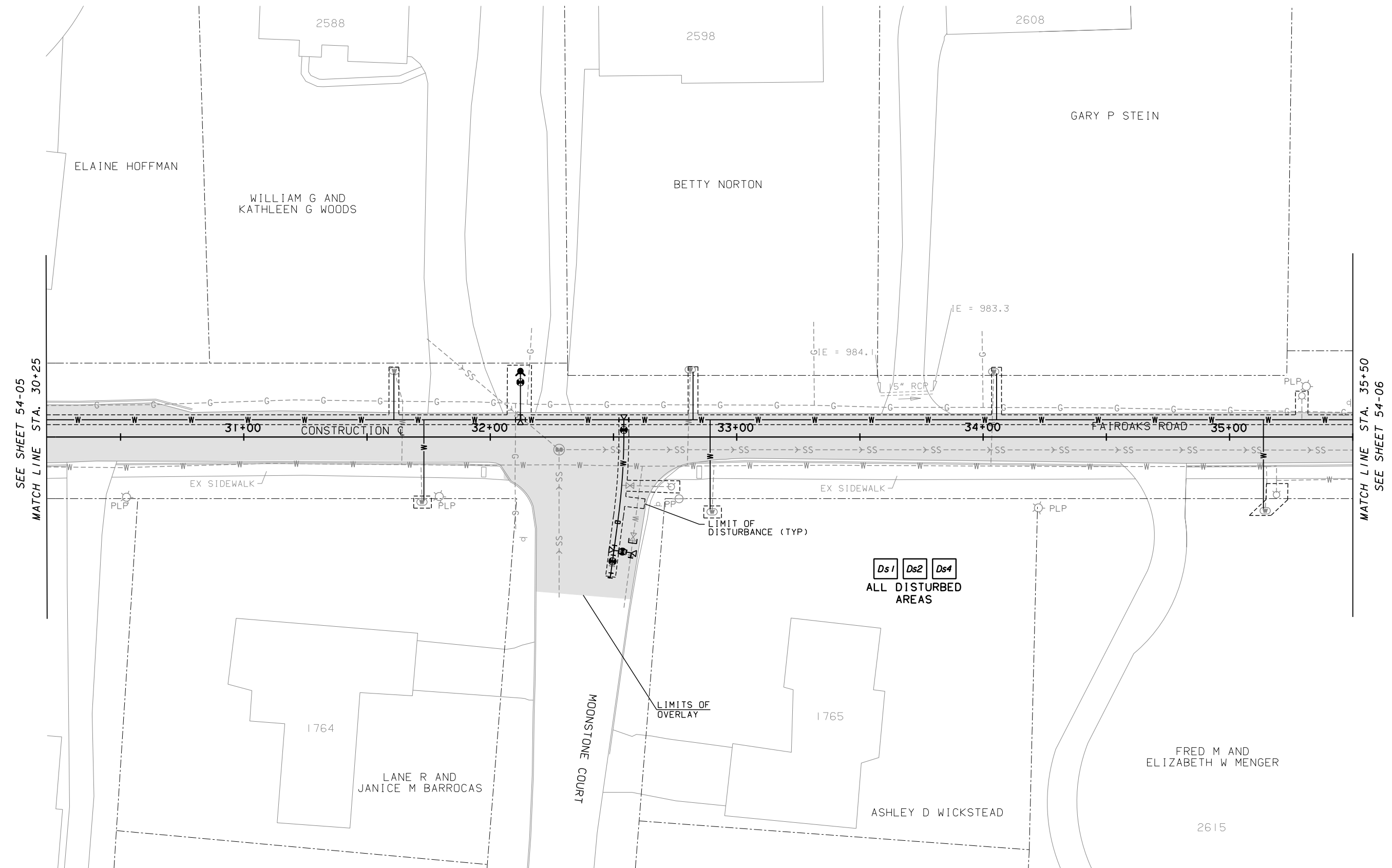
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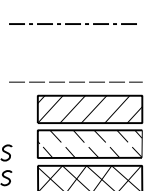
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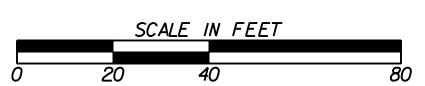
SEE SHEET 54-05
MATCH LINE STA. 30+25

MATCH LINE STA. 35+50
SEE SHEET 54-06

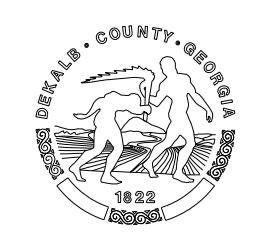
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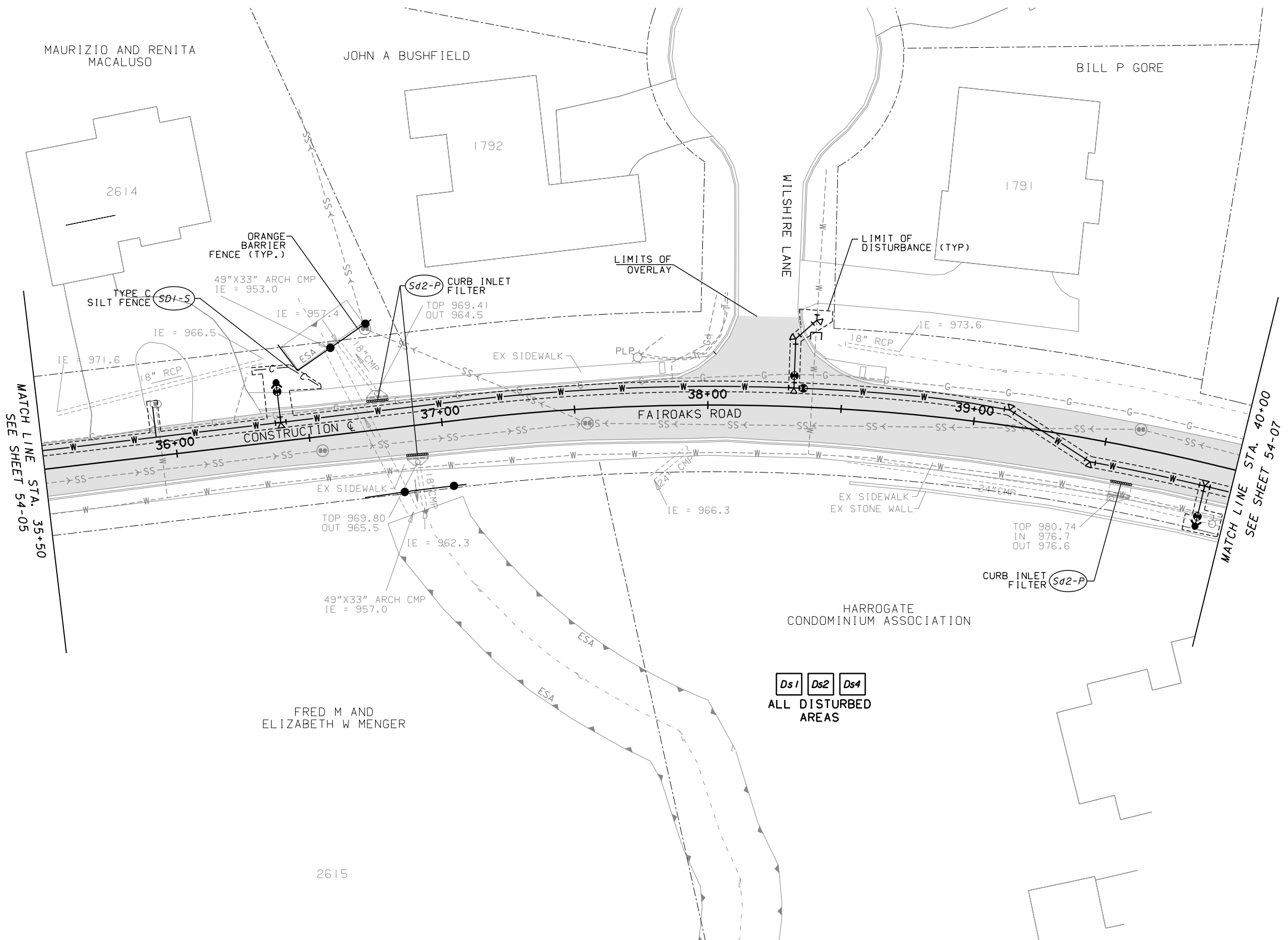


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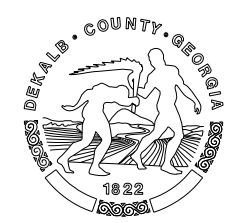


APPROXIMATE PROPERTY AND EXISTING R/W LINE
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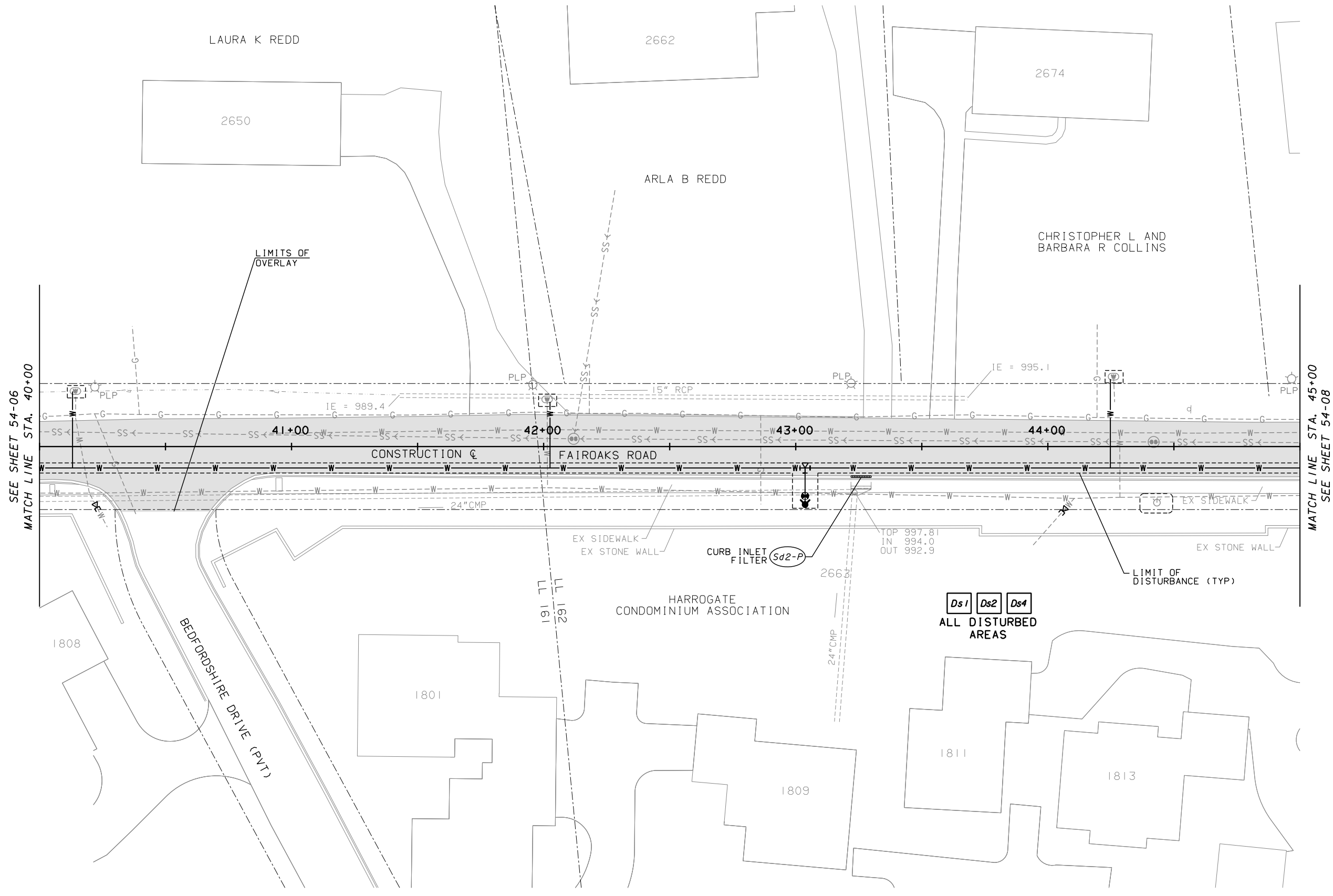
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REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT						
BMP LOCATION DETAILS						
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET
				AS SHOWN	3006018	54-06

3/1/2009
 COMB

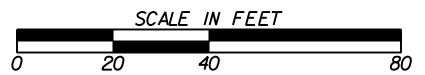


SEE SHEET 54-06
MATCH LINE STA. 40+00

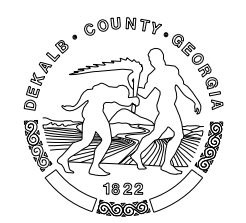
MATCH LINE STA. 45+00
SEE SHEET 54-08

APPROXIMATE PROPERTY AND EXISTING R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

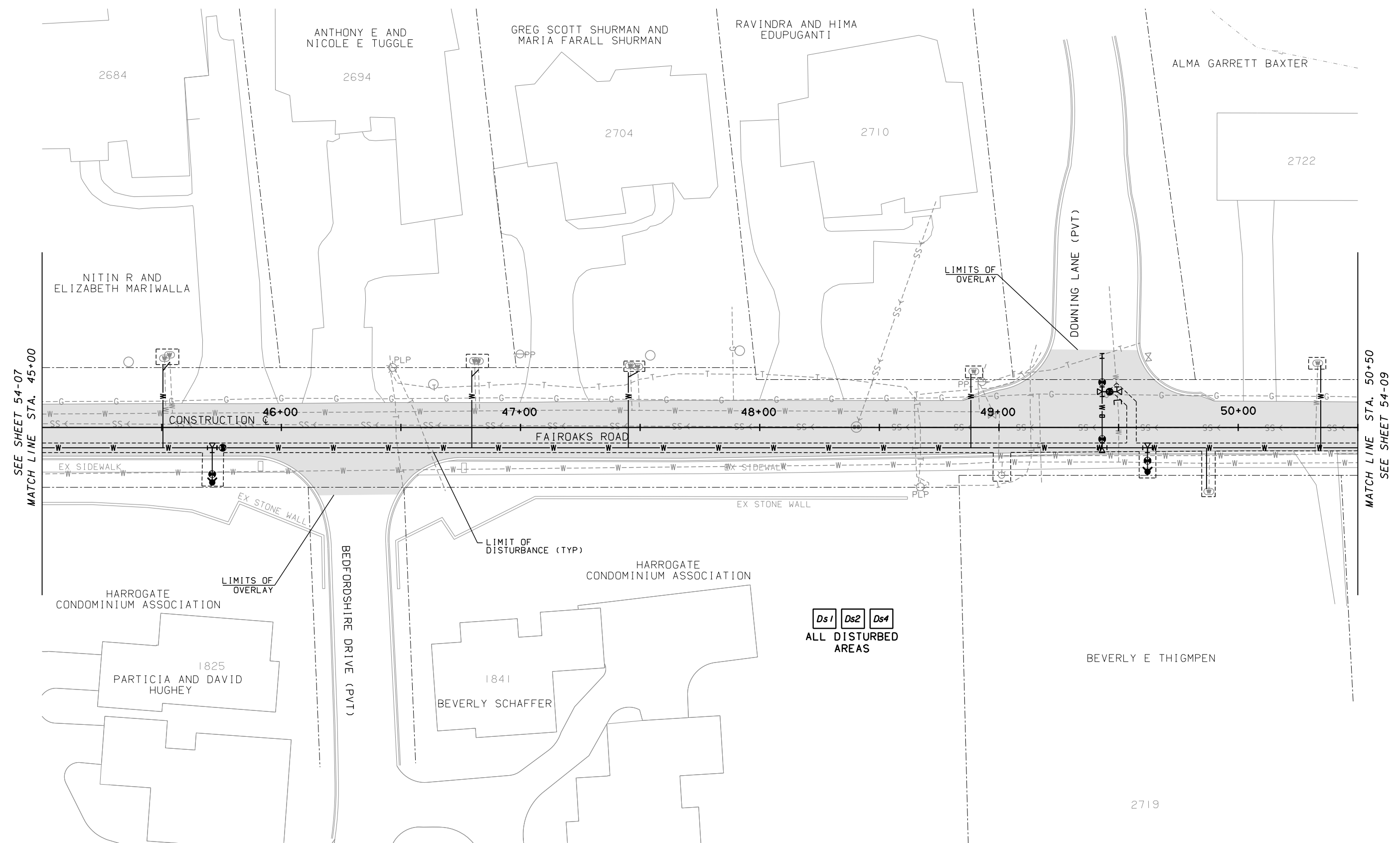


McGee Partners, Inc.
www.mcgeepartners.com



REVISION DATES			

FAIROAKS ROAD WATER MAIN REPLACEMENT						
BMP LOCATION DETAILS						
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET
				AS SHOWN	3006018	54-07
REV.						



SEE SHEET 54-07
 MATCH LINE STA. 45+00

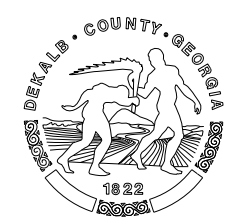
MATCH LINE STA. 50+50
 SEE SHEET 54-09

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



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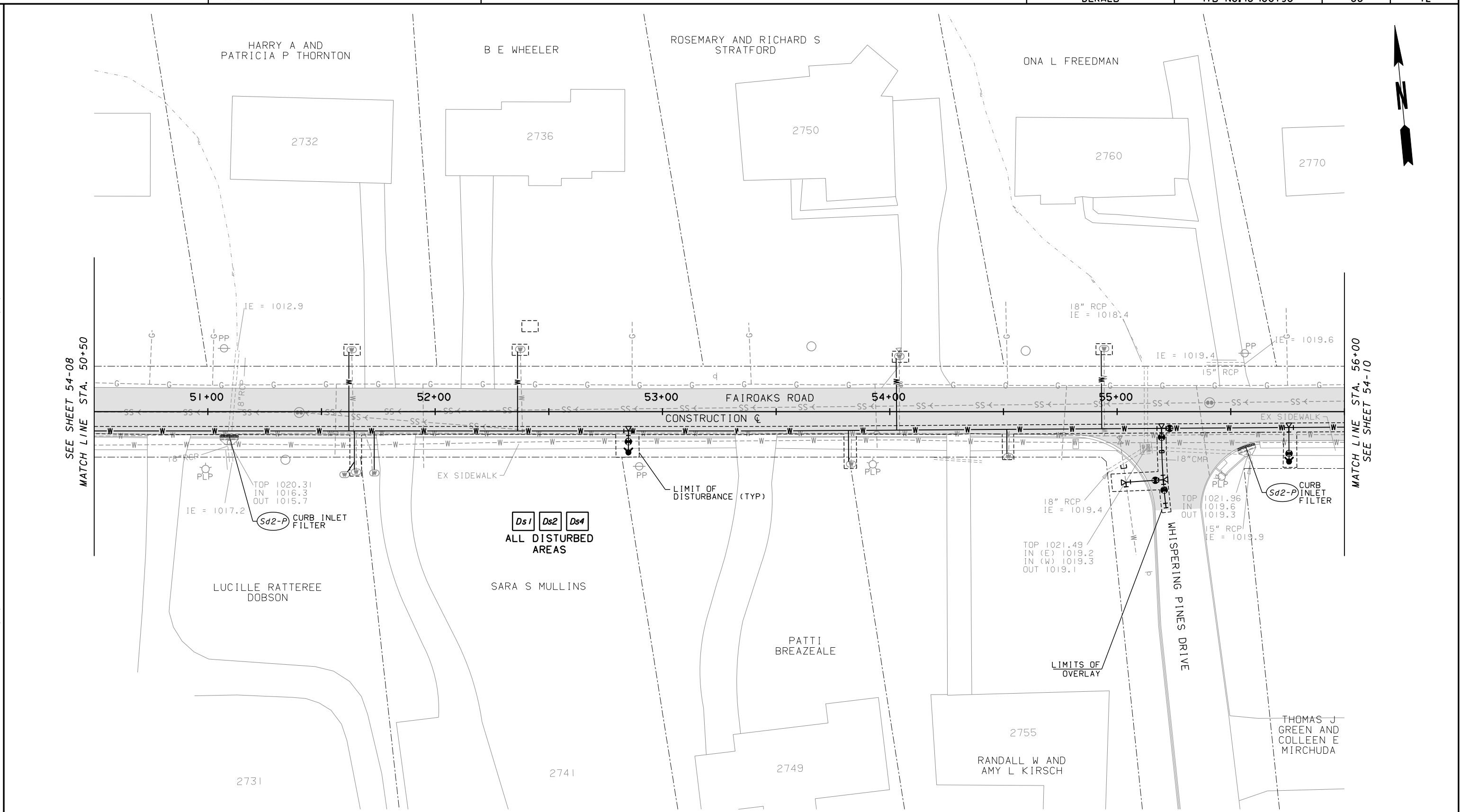
REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
BMP LOCATION DETAILS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
					SHEET
					54-08
					REV.



SEE SHEET 54-08
MATCH LINE STA. 50+50

MATCH LINE STA. 56+00
SEE SHEET 54-10

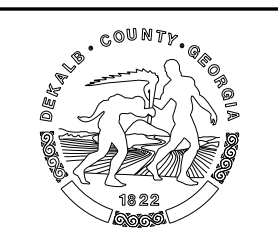


APPROXIMATE PROPERTY AND EXISTING R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

SCALE IN FEET

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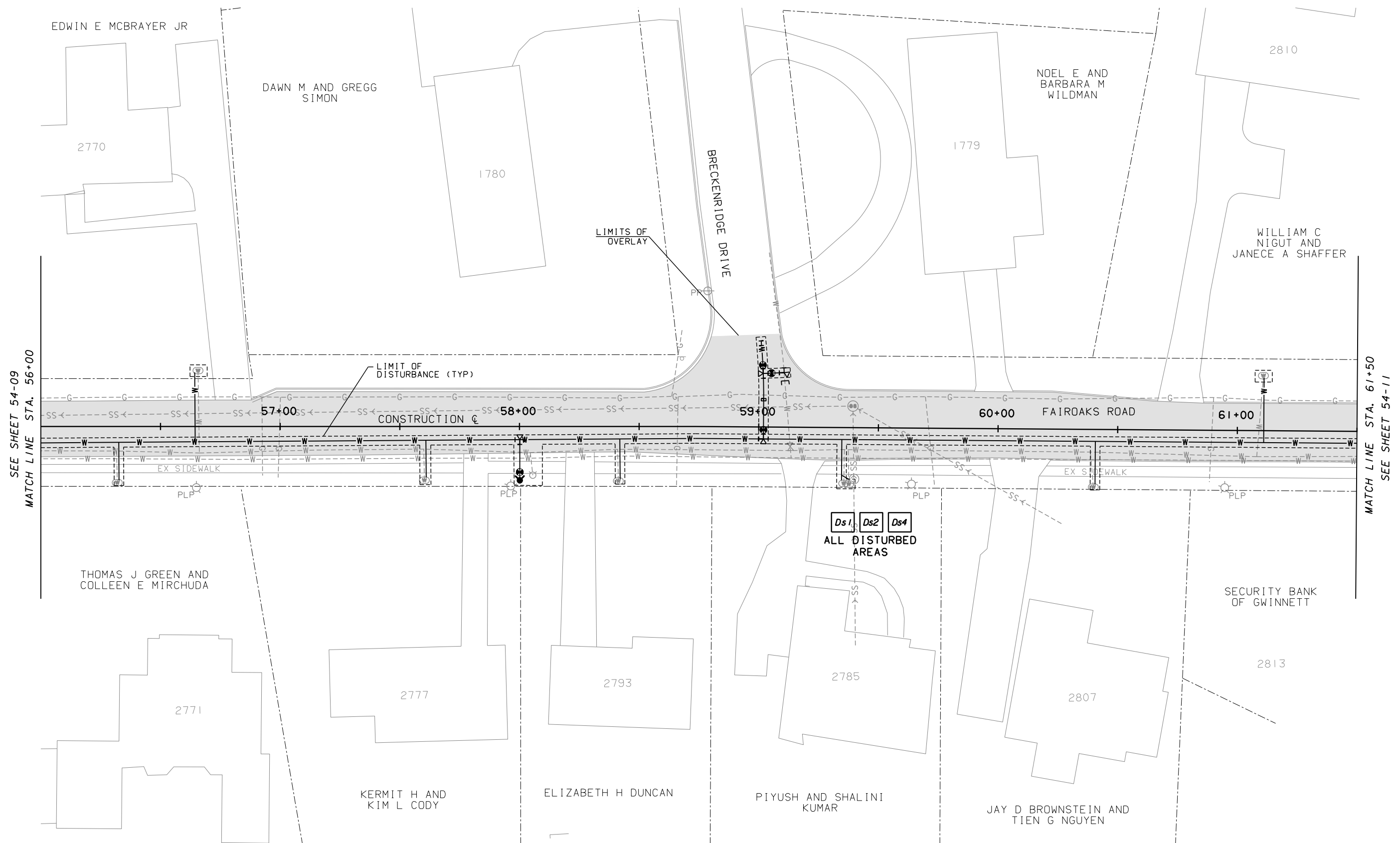


REVISION DATES	

FAIROAKS ROAD
WATER MAIN REPLACEMENT

BMP LOCATION DETAILS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET	REV.
				AS SHOWN	3006018	54-09	



SEE SHEET 54-09
MATCH LINE STA. 56+00

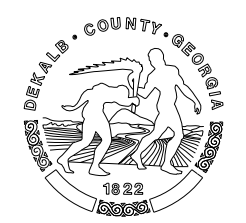
MATCH LINE STA. 61+50
SEE SHEET 54-11

APPROXIMATE PROPERTY AND EXISTING R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

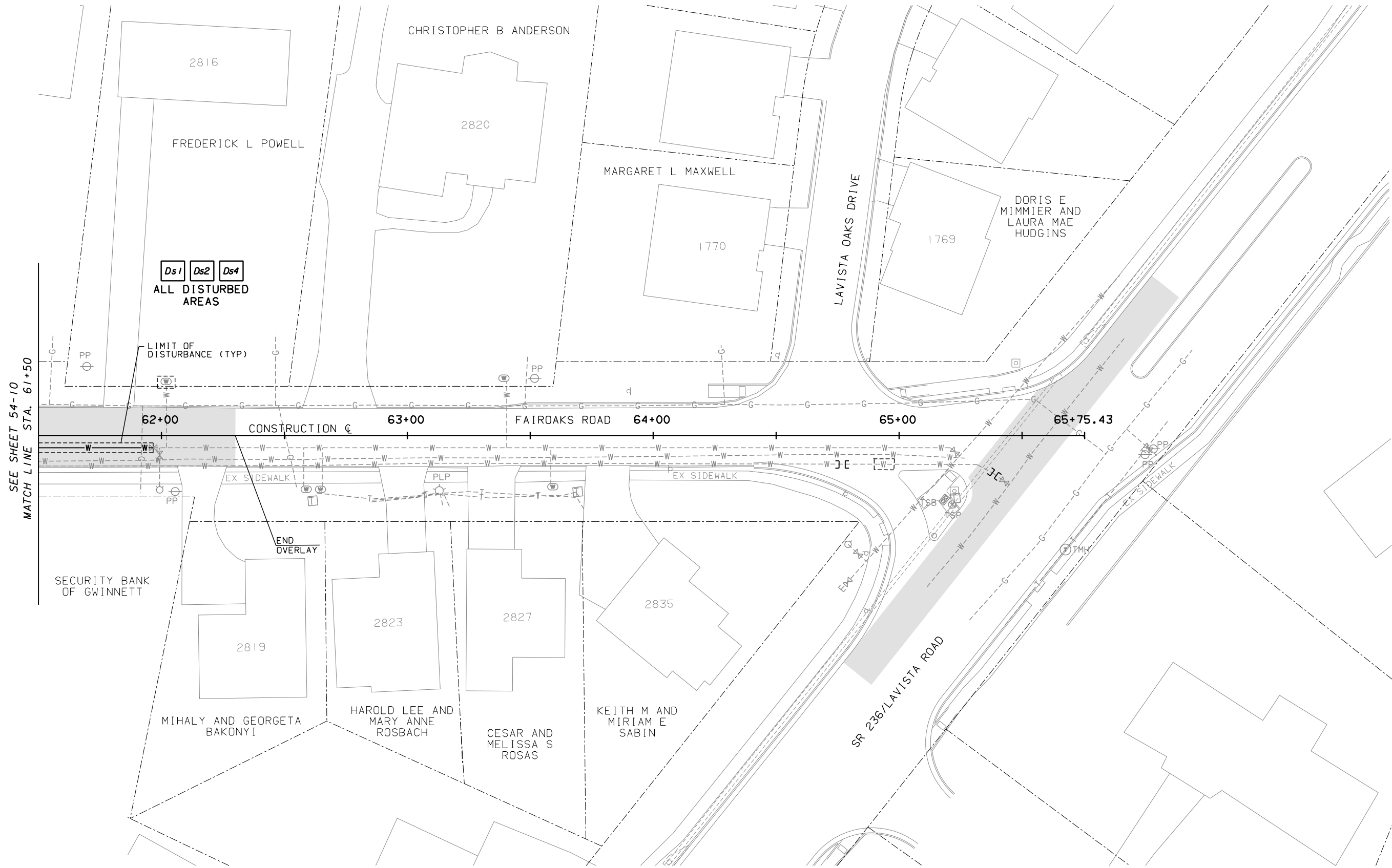


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REVISION DATES	

FAIROAKS ROAD WATER MAIN REPLACEMENT					
BMP LOCATION DETAILS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.
				AS SHOWN	3006018
SHEET	REV.				
54-10					



3/1/2008
 CONE

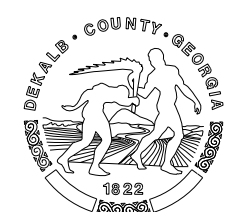
3/1/2008
 CONE

APPROXIMATE PROPERTY AND EXISTING R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



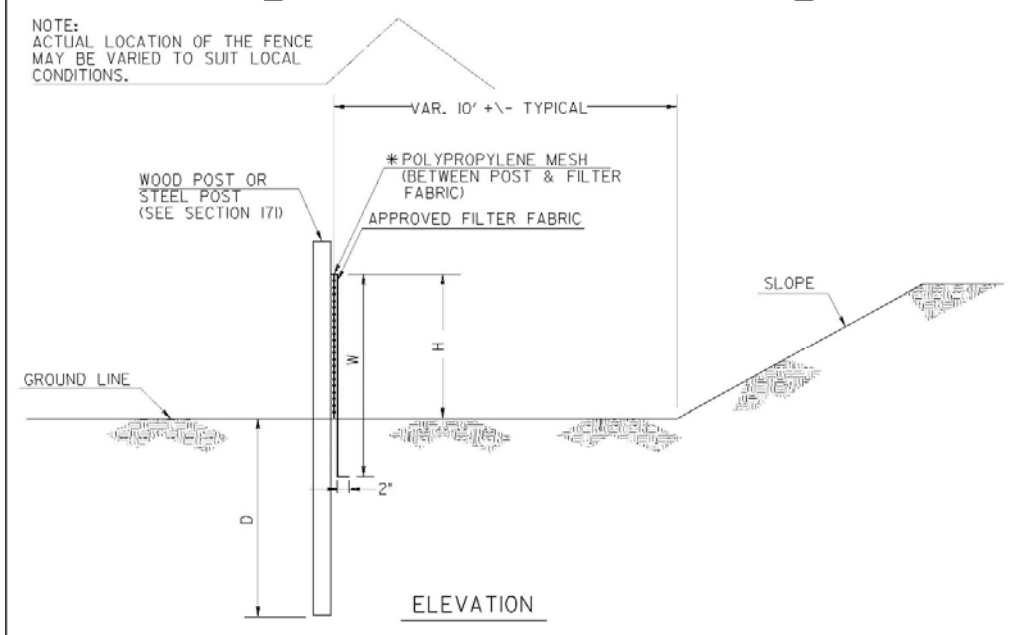
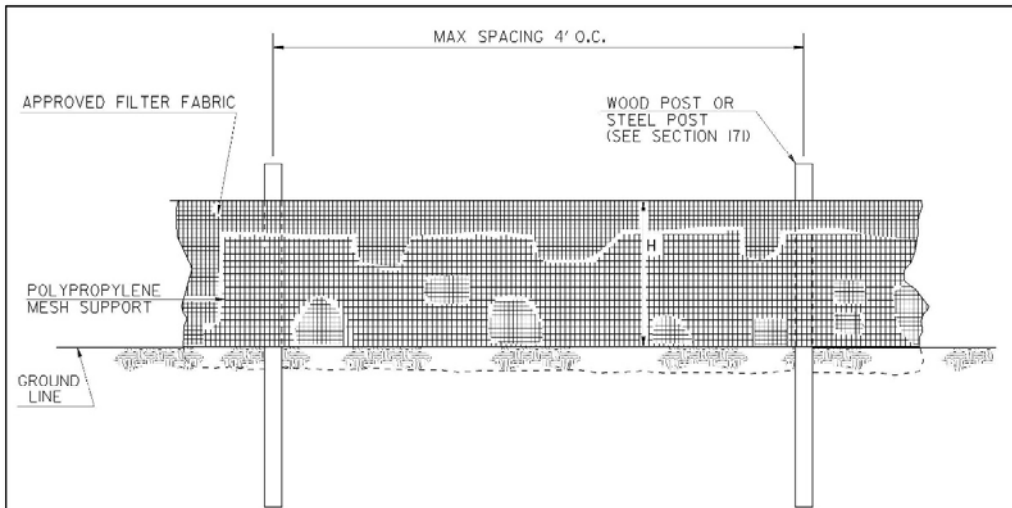
McGee Partners, Inc.
 www.mcgeepartners.com



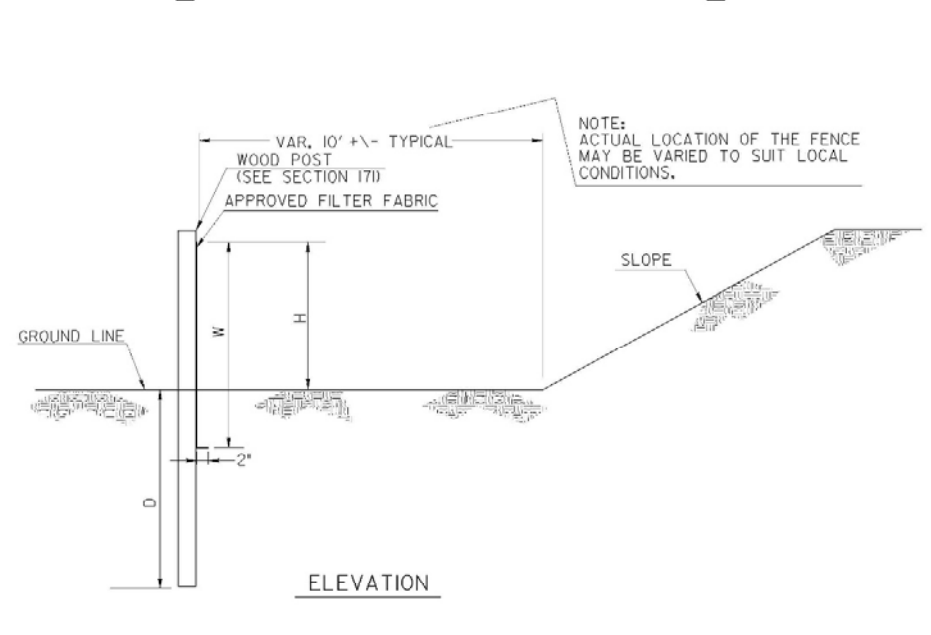
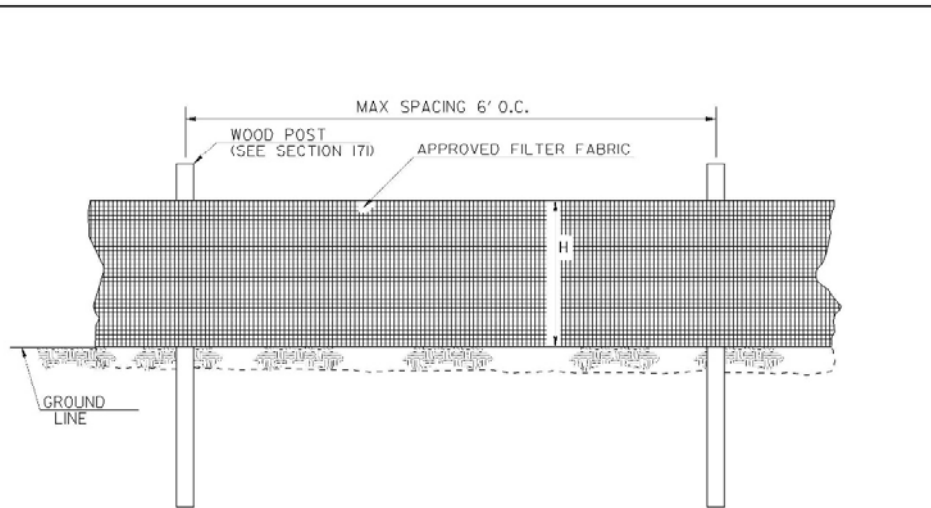
REVISION DATES			

FAIROAKS ROAD WATER MAIN REPLACEMENT						
BMP LOCATION DETAILS						
DESIGNED	DRAWN	CHECKED	DATE	SCALE	JOB NO.	SHEET
				AS SHOWN	3006018	54-II
						REV.

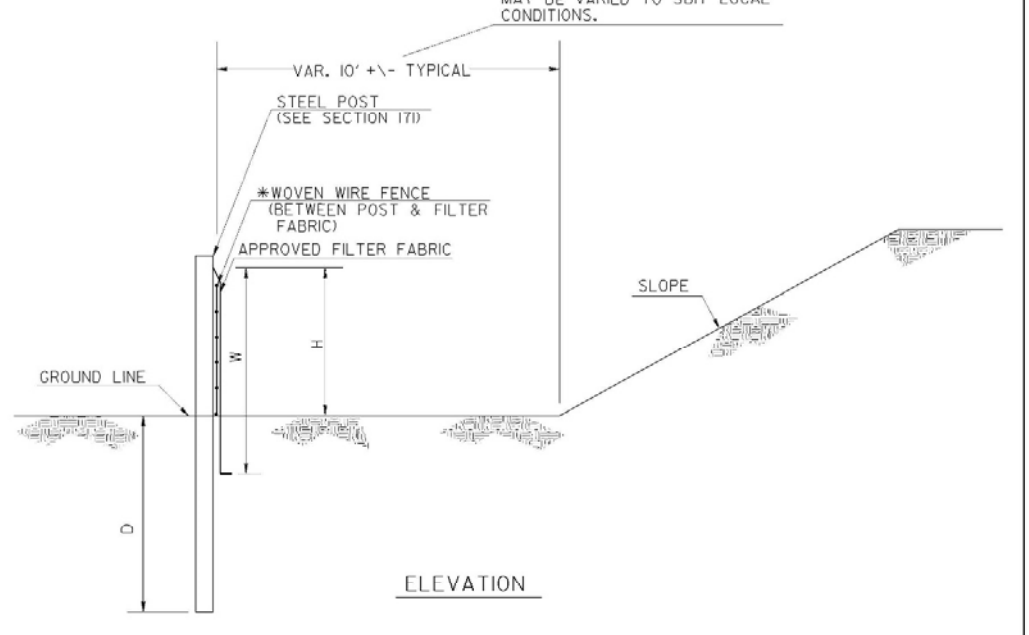
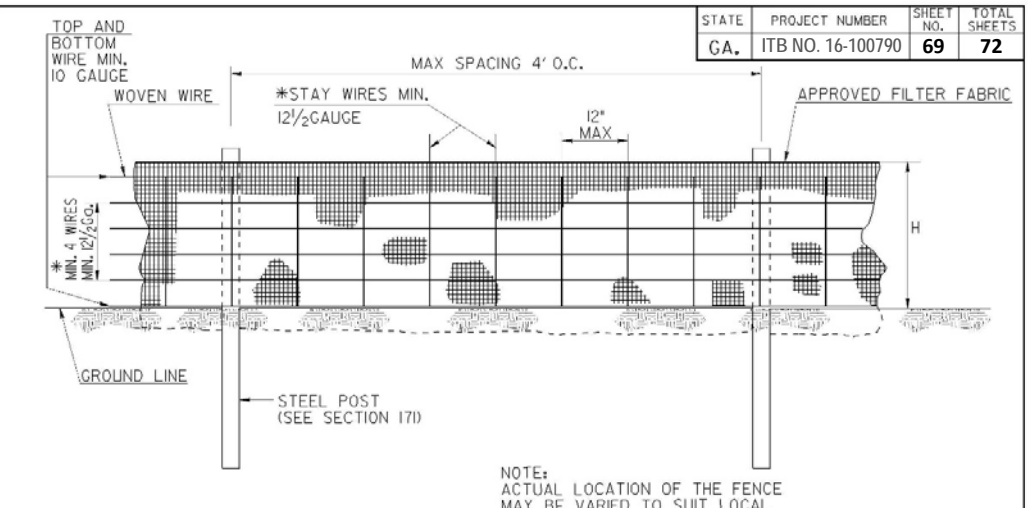
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	ITB NO. 16-100790	69	72



SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT



SINGLE ROW TYPE A SILT FENCE



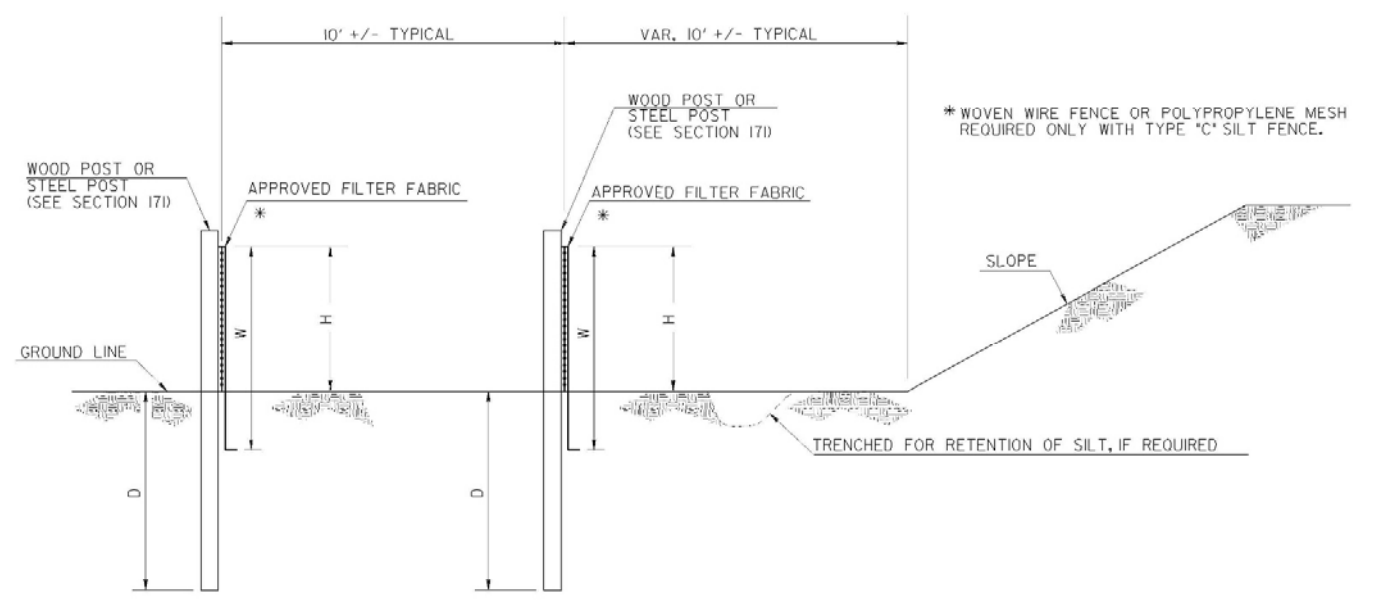
SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

- NOTES:
1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
 2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
 3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
 4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
 6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
 7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
 8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

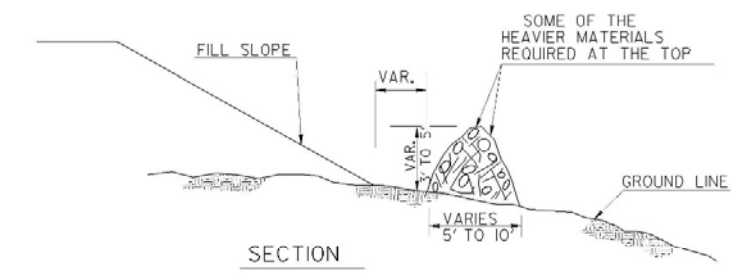
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE	
BY		NO SCALE	REV. AND REDRAWN JAN. 2011
		56.01	NUMBER D-24A (SHEET 1 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	ITB NO. 16-100790	70	72



ELEVATION
DOUBLE ROW SILT FENCE

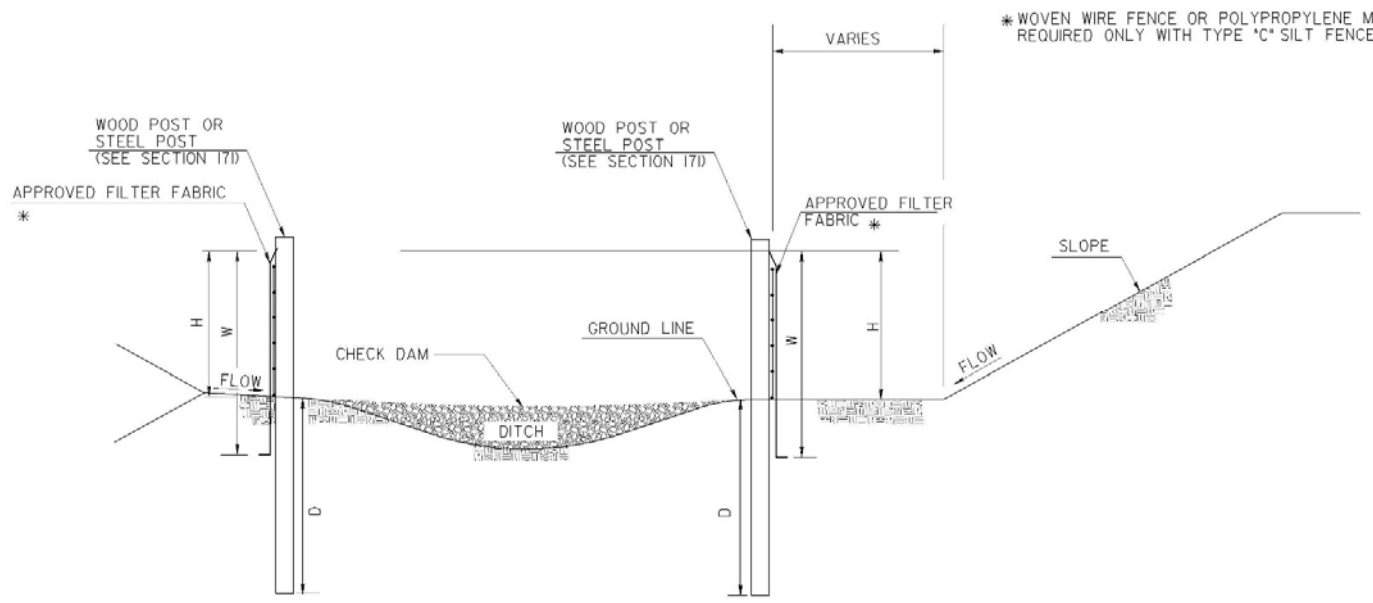
FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.



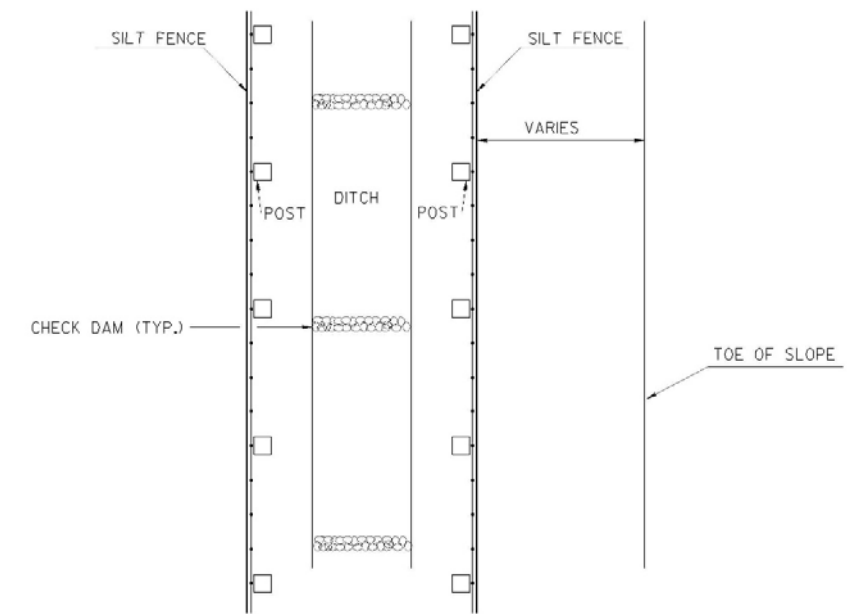
SECTION
FRONT VIEW
NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.
BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

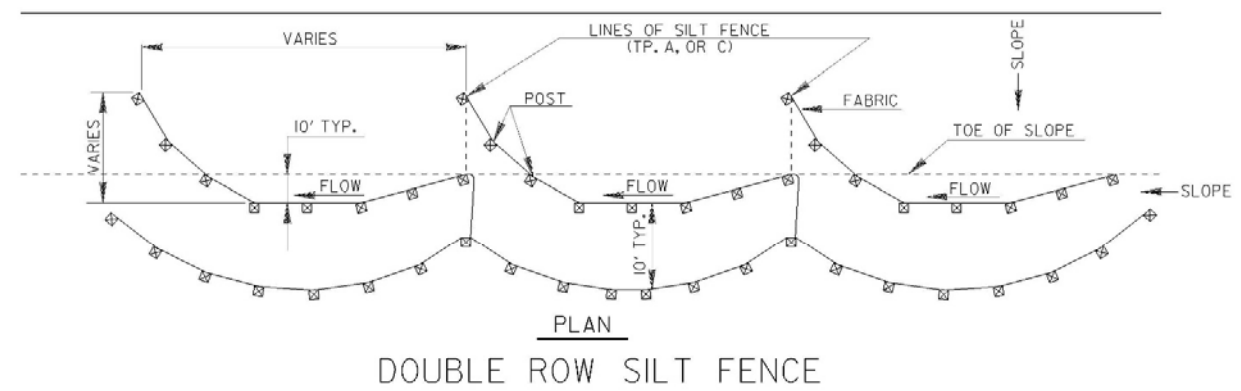
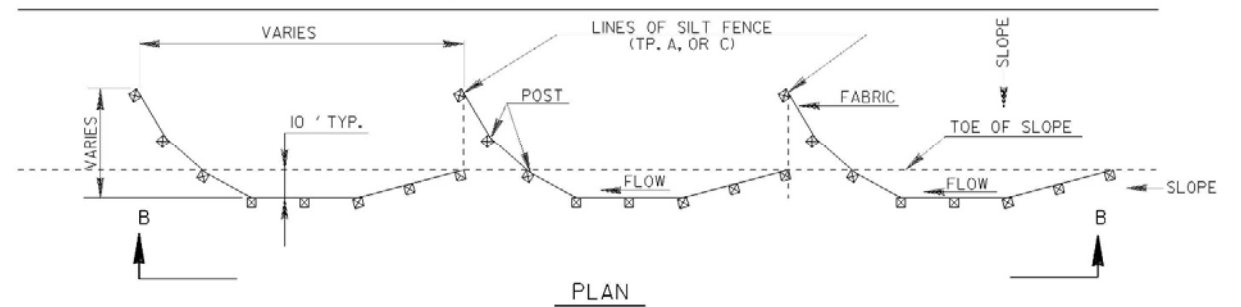
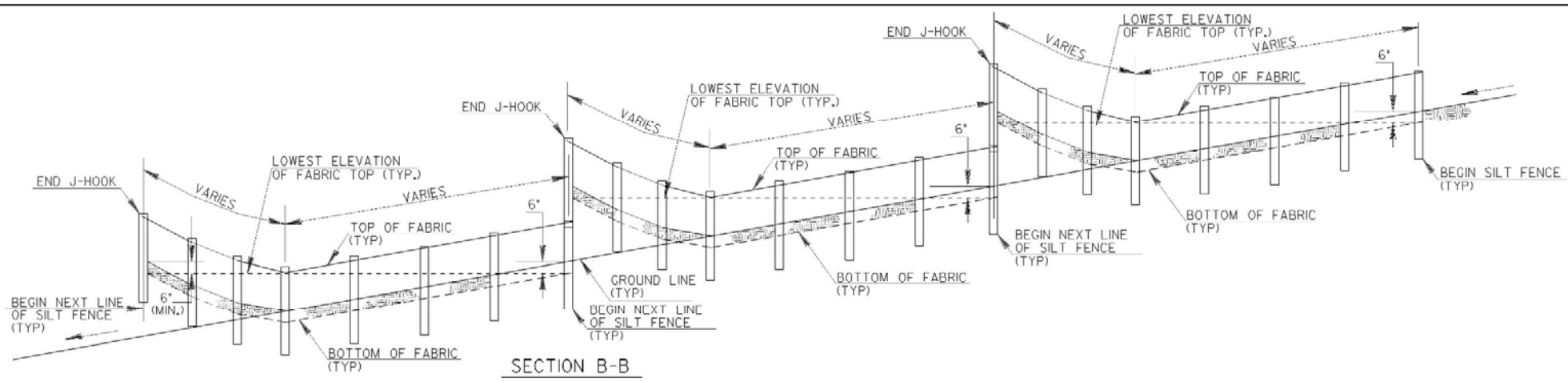
FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



PLAN

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

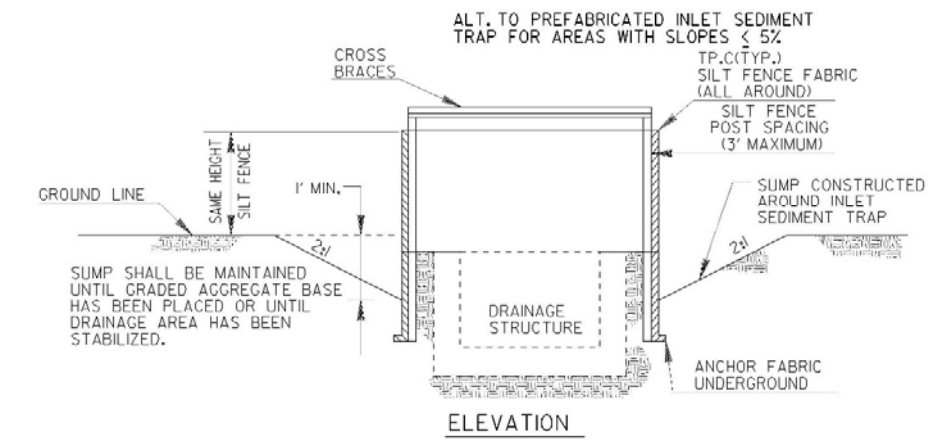
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER	
BY		NO SCALE	REV. AND REDRAWN JAN. 2011
		56.02	NUMBER D-24B (SHEET 2 OF 4)



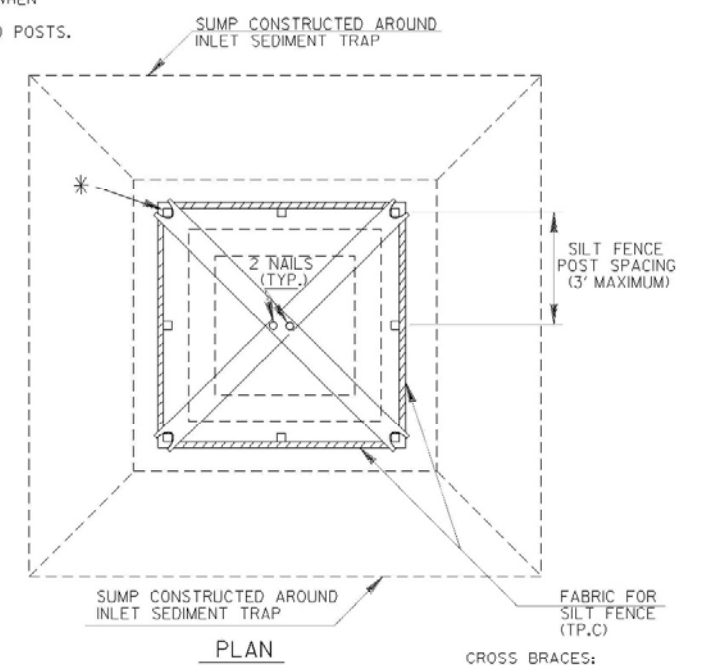
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
 1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
 2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

TYPICAL LOCATION AROUND DROP INLETS

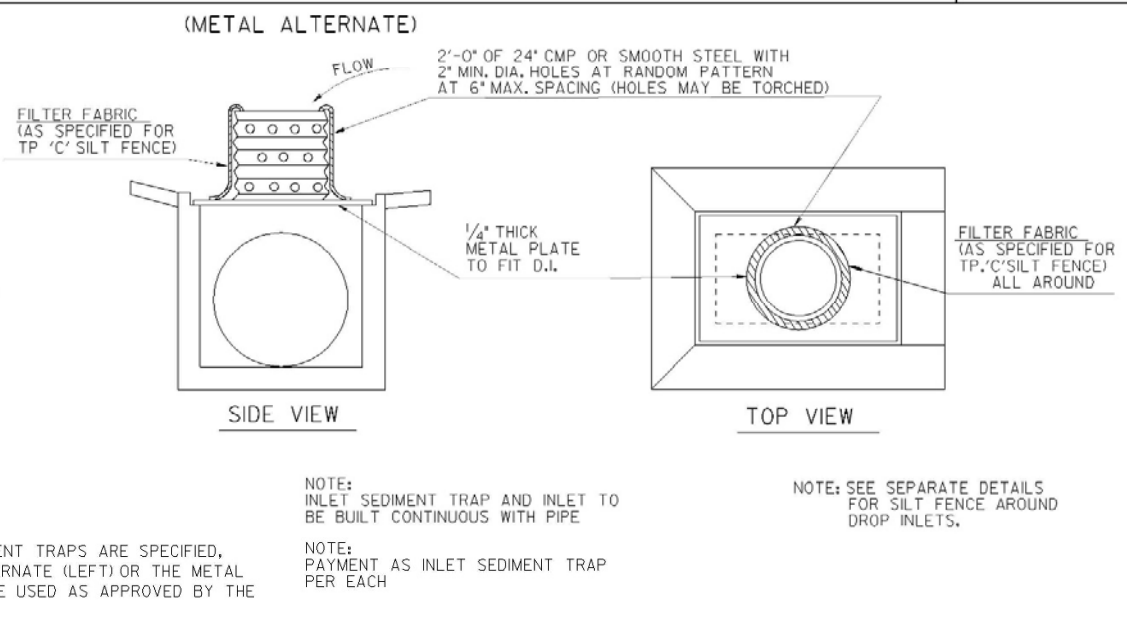
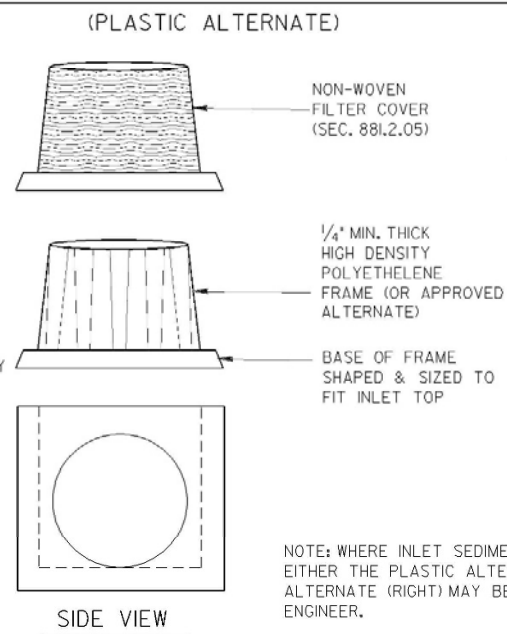


* CROSS BRACING REQUIRED WHEN USING 'ALTERNATE' TYPE C PRODUCTS WHICH USE WOOD POSTS.



NOTE:
 PAYMENT AS INLET SEDIMENT TRAP PER EACH.
 NOTE:
 SEE SEPARATE SHEET ENTITLED 'TEMPORARY SILT FENCE DETAILS' FOR SILT FENCE ERECTION DETAILS.

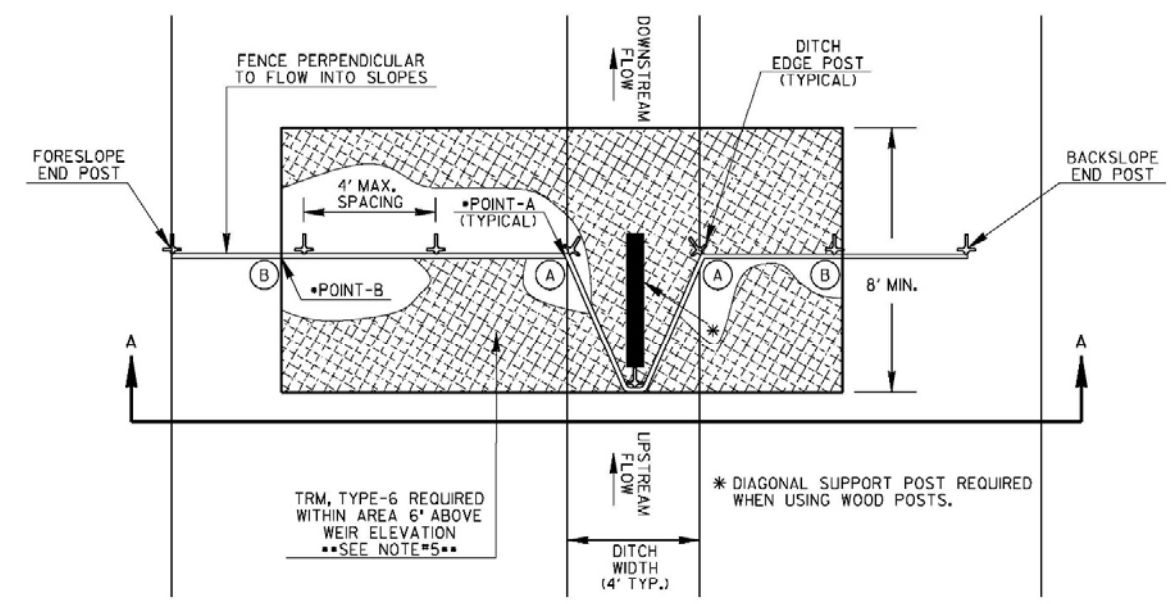
NOTE:
 THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.
 TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE
 1. EXCAVATE APPROXIMATELY 4' TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
 2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
 3. SLIDE THE FILTER OVER THE FRAME.
 4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
 5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



NOTE:
 INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

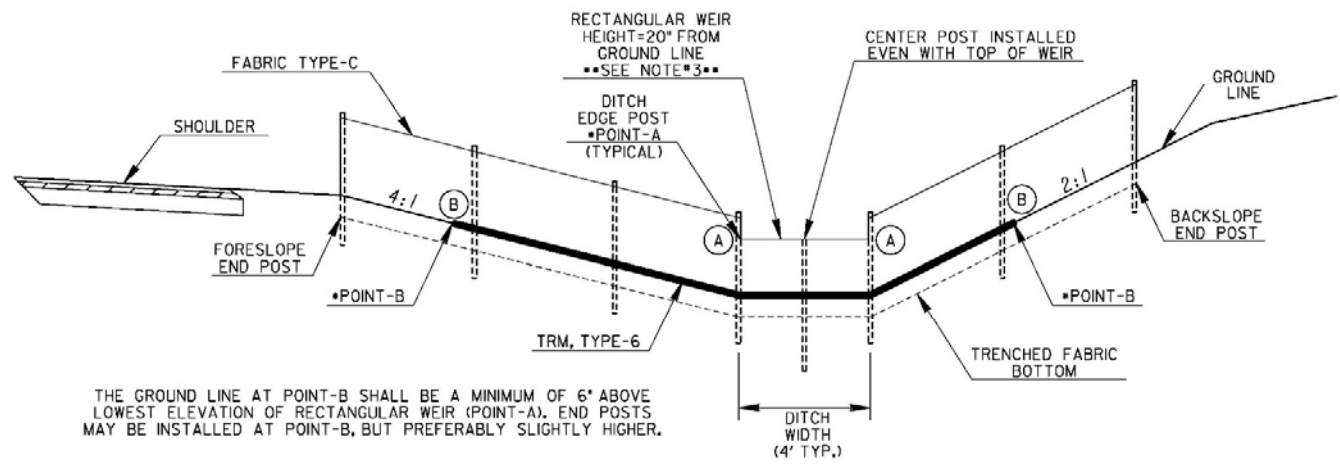
INLET SEDIMENT TRAP - FOR DROP INLETS

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
BY		NO SCALE	JANUARY 2011
		56.03	NUMBER D-24C (SHEET 3 OF 4)



PLAN VIEW

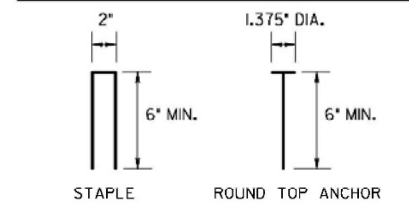
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±



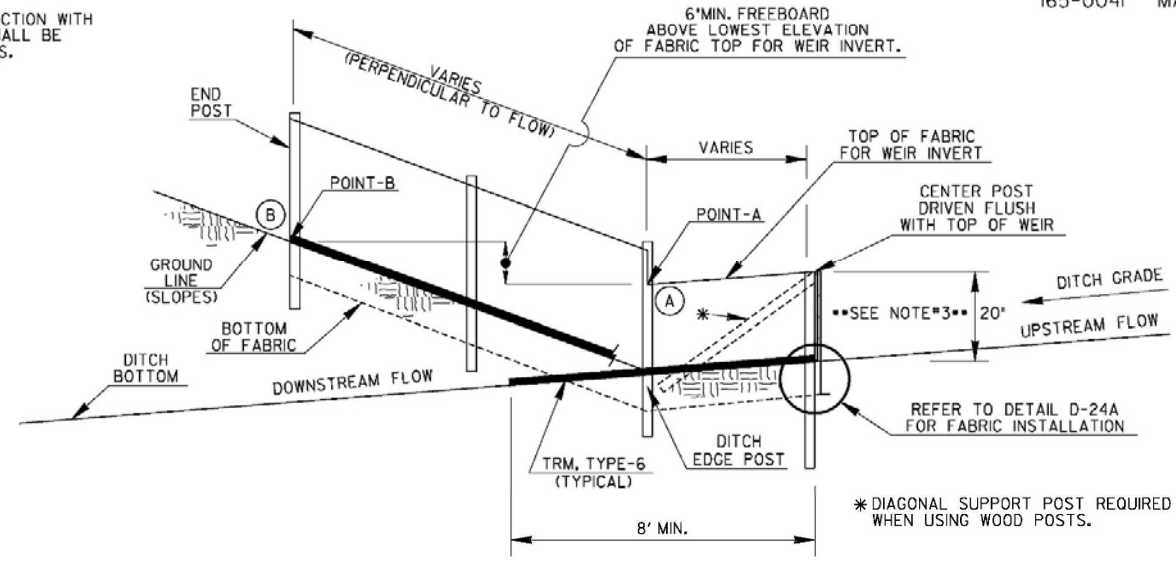
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

- FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
- FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
- FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
- THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
 - DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
 - CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
 - LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
 - INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
 - PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
 - INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
- TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:

- 163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
- 165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DATE		DEPARTMENT OF TRANSPORTATION	
		STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS	
		TEMPORARY SILT FENCE	
		FABRIC CHECK DAM	
BY		NO SCALE	REV. AND REDRAWN, JULY 2015
		56.04	NUMBER D-24D
			(SHEET 4 OF 4)

EXHIBIT 4

OCIP MANUAL

DEKALB COUNTY GOVERNMENT

ROLLING OCIP – ALL OTHER PROJECTS

(OTHER THE THAN WASTE WATER TREATMENT PROJECT)



GENERAL LIABILITY OCIP MANUAL

Version 1.2
July 2015

**Resurgens Risk Management (RRM)/
Willis Insurance Services of Georgia, Inc. (Willis)**



**Kendall Ross OCIP Administrator, RRM Phone:
(404) 591-2895, Fax: (404) 873-1574
kross@rrmat.com**

INTRODUCTION

DEKALB COUNTY GOVERNMENT (Owner) purchased an OCIP Program (Wrap- Up) providing General Liability and Excess Liability insurance for General Contractors and all Subcontractors of every tier working on the Projects, who are enrolled in the OCIP.

Participation is mandatory, except for those identified as Excluded Parties, BUT IT IS NOT AUTOMATIC. The General Contractor and each Subcontractor must follow enrollment procedures as described herein. The Owner has specified that insurance costs be identified in (and subsequently removed from) all initial bids, change orders and final contract value.

The insurance protection provided by the OCIP, as well as your rights and responsibilities under the program, are as much a part of your Contract as the actual work specifications. All terms and conditions of this OCIP Manual are incorporated by reference into your Contract.

Any questions regarding the particulars of this program can be discussed at pre-bid and pre-award meetings, or by contacting the OCIP Administrator (see directory).

This Manual does not, and is not intended to, provide coverage interpretations or complete information about coverages. The terms and conditions of the respective insurance policies will govern how coverage is applied.

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General Provisions.....	6
Incident Reporting and Safety.....	7
Insurance Provided by the Owner.....	8-9
Insurance Provided by General Contractor and All Subcontractors	10-13
Enrolling in the OCIP - Completing the Forms	14-17
Forms Section.....	18-28

DIRECTORY

Owner:

DEKALB COUNTY GOVERNMENT

Risk Manager

Larry C. Jacobs
Phone: 404-371-2050
E-mail: lcjacobs@dekalbcountyga.gov

Sr. Program Manager (PMT)

TBD

OCIP Program Administration:

RESURGENS RISK MANAGEMENT (RRM)

OCIP Program Manager

OCIP Administrator

Kendall Ross
Phone: (404) 591-2895
Cell: (404) 290-4410
Fax: (404) 873-1574
E-mail: kross @rrmgt.com

OCIP Claims Consultant:

WILLIS
Dave Simmons
Phone: (404) 224-5062
Cell: (770) 617-1390
E-mail: David.Simmons@Willis.com

DEFINITIONS

Contract: The written agreement between DEKALB COUNTY GOVERNMENT and General Contractor or between General Contractor and its Subcontractors of every tier.

Enrolled Contractor(s): The General Contractor and Subcontractors of any tier who has been awarded work and met the requirements to become enrolled in the OCIP as evidenced by a certificate of insurance issued by the OCIP Administrator. The Owner may, at its discretion, include a Subcontractor who, otherwise by definition, would be an Excluded Party.

Excluded Parties: Contract haulers or truckers, consultants, vendors, suppliers, material dealers, asbestos abatement, EFIS, or other hazardous material contractors, or others merely making deliveries to or pickups from the Jobsite. In addition, Subcontractors whose contract price is less than \$10,000 will be excluded from the OCIP. The Owner may, at its discretion, exclude others from the OCIP.

General Contractor: (Each) General Contractor per project or contract

Insured: Owner and all Enrolled Contractors and any other party named as an Insured on the certificates of insurance.

Insurer(s): Gemini (General Liability)
Lexington (1st Excess Liability)
Ironshore (2nd Excess Liability)
Endurance/Swiss Re (3rd Excess Liability)

Jobsite: the Rolling OCIP covers all projects, other than the Water Treatment project, conducted throughout DeKalb County, representing premises owned by the Owner as described in the Contract between Owner and the General Contractor. This shall not include operations at the Enrolled Contractor's regularly established workplace, plant, factory, office, shop, warehouse, yard or other property, even if such operations are for fabrication of materials to be used at the jobsite.

Offsite: Premises other than the Jobsite.

Onsite: See Jobsite definition.

Owner: DEKALB COUNTY GOVERNMENT

Project: Projects, other than the Water Treatment Plant Project

DEFINITIONS (CONTINUED)

Project Manager: The individual assigned by the General Contractor with overall Project responsibility.

Subcontractor: Any individual, firm, or corporation undertaking construction or other services under a Contract with the General Contractor or another Subcontractor to furnish labor, services, materials and/or equipment, and/or perform operations at the Project site.

OCIP: (Also known as Wrap-Up) A program under which General Liability and Excess Liability insurance are procured by the Owner for all Enrolled Contractors of every tier while performing operations at the Jobsite.

OCIP Administrator: The individual employed by the OCIP Program Manager who is responsible for the day-to-day administration of the OCIP.

OCIP Program Manager: Resurgens Risk Management

GENERAL PROVISIONS

The General Contractor and each Subcontractor of any tier shall comply with each of the provisions stated herein:

1. **Mandatory Compliance**

Participation is mandatory, except for those identified as Excluded Parties.

2. **Meeting Attendance**

At the request of the Owner, the General Contractor and its Subcontractors shall attend any meetings held to explain and discuss the OCIP.

3. **OCIP Manual Incorporated into Bid Specifications and Contract**

This OCIP Manual will be a part of the bid specifications and bidders are expected to be familiar with the requirements prior to submitting their bid. In addition, this OCIP Manual will be incorporated by reference into the successful bidders awarding Contract and accordingly, all provisions require mandatory compliance.

4. **Commencement of Work**

Subcontractors shall not commence work at the Jobsite until:

- a) If enrolled under this OCIP, having received a certificate of insurance issued by the OCIP Administrator, or
- b) If excluded under this OCIP, having provided a certificate of insurance as required in this manual.
- c) Attend safety meeting and receive badge authorizing access to work site.

INCIDENT REPORTING AND SAFETY

All Jobsite incidents/accidents must be reported to the Project Manager.

The Project Manager will:

- Work with the involved Subcontractor(s) to take necessary action to stop any unsafe act or condition in order to prevent further injury or damage.
- Provide the Supervisor's Incident Investigation Report and the Claim Reporting Form to the involved Subcontractor(s) to be completed.
- Coordinate the investigation surrounding the incident/accident and assure completion of required investigative reports.
- Report the incident/accident to Dave Simmons, Willis (see directory) and will include the Investigation Report and Claim Form.

The General Contractor and Subcontractors will assist in the handling, investigation, and mitigation of all incidents regardless of whether the incident results in an injury or insurance claim.

The General Contractor shall be responsible for designing and implementing a comprehensive project specific safety, health and loss prevention program.

All subcontractors will be required to follow the General Contractor's safety, health and loss prevention program. A written Safety Plan is required to be submitted by the General Contractor and accepted by DeKalb County (Risk Manager) and/ or it's designated representative before any on-site work can begin. The Safety Plan must include but not limited to all items in the Contract concerning safety requirements, accident investigation procedures, safety audits/survey schedule, safety rules, return to work protocols and the name of the designated contractor's project safety representative.

INSURANCE PROVIDED BY THE OWNER

The Owner has procured, and will maintain at its own expense, the insurance coverages described below for the General Contractor and Enrolled Contractors. The limits of liability purchased apply collectively to all Insureds. The Owner intends to maintain General Liability and Excess Liability coverages until final completion, but in no event beyond the expiration date of the OCIP policy. As defined in the policy, Products/Completed Operations coverage is extended for 10 years or the Statute of Repose, whichever is less. In addition, this program includes an extended warranty/repair work provision which extends coverage in the event an Enrolled Contractor returns to the project site to perform warranty or repair work as defined by the policy. Summaries of the insurance coverages to be provided by the Insurer(s) are as follows:

1. Commercial General Liability Insurance

Commercial General Liability insurance is provided for activities at the Jobsite. The Policy has the following limits of liability (exclusive of defense costs):

\$2,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products/Completed Operations Aggregate*
\$2,000,000	Personal Injury and Advertising Liability
\$100,000	Fire Legal Liability
\$10,000	Each Occurrence – General Contractor’s financial responsibility for Property Damage to the extent loss is attributable to, involves, or relates to the performance, actions, or negligence of the General Contractor or its Subcontractors.

** The Products/Completed Operations Aggregate is a single limit for the entire policy term, inclusive of the 10 year extension period.*

2. Excess Liability Insurance

Excess Liability will be provided with limits of \$25,000,000 each occurrence and in the aggregate. The limits are excess of the primary limits described in Item 1 above.

3. Builders’ Risk and Contractors’ Pollution Liability

Please refer to the contract between DeKalb County and the General Contractor for additional information on builders’ risk and pollution liability.

4. Certificates of Insurance

The OCIP Administrator will issue certificates of insurance for Commercial General Liability and Excess Liability to the General Contractor and each Enrolled Subcontractor.

INSURANCE PROVIDED BY THE OWNER (CONTINUED)

5. Insurance Policies

The summary of coverages contained in this OCIP Manual is prepared for the convenience of those involved in the Project and should not be construed in any way as an exact and binding analysis of coverage. In case of any claim or question with respect to coverage, the original policies will prevail as the sole binding documents. Specimen General Liability and Excess Liability policies are available upon request.

6. OCIP Insurance Premiums

The Owner is responsible for the payment of the OCIP premium. All return insurance premiums, insurance dividends, or monies due or to become due in connection with the OCIP shall be to the benefit of the Owner and are hereby assigned to the Owner.

7. OCIP Cancellation, Termination or Modification

Notwithstanding any other provision in this manual, it is the Owner's intent to keep the OCIP in force throughout the term of the Project. However, the Owner reserves the right to cancel, terminate or modify the OCIP. To exercise this option, the Owner will provide 30 calendar days advance, written notice to all Insureds covered under the OCIP.

Enrolled Contractors will be required to immediately effect replacement insurance coverage, equivalent to what is currently required for Offsite and Excluded Parties. The reimbursement for the cost of such replacement insurance will be calculated on a pro-rata portion of the Enrolled Contractors' approved Form 2. Written evidence of such insurance must be provided to the Owner prior to the actual cancellation or termination date of the OCIP.

INSURANCE PROVIDED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS

Enrolled Contractors and Excluded Parties will, at their own expense, carry and maintain at least the following insurance policies and minimum limits of liability on forms and with insurance companies acceptable to the Owner:

1. Automobile Liability Insurance

All Enrolled Contractors and Excluded Parties must provide Automobile Liability insurance covering the operation, maintenance and use, loading and unloading of all owned, hired, and non-owned vehicles used in connection with the Project. If hazardous materials or waste are to be transported, the Commercial Automobile Liability policy will be endorsed to include CA9948 and MCS-90 endorsements.

Limits of liability of at least \$1,000,000 for each accident for bodily injury and property damage combined.

2. Workers' Compensation and Employer's Liability

All Contractors must have Workers' Compensation and Employer's Liability insurance covering for all operations relating to this Project. The policy must contain a waiver of subrogation endorsement in favor of the Owner and the General Contractor and provide the following limits:

- a. Workers' Compensation - Statutory Limits
- b. Employer's Liability -
 - \$1,000,000 Each Accident
 - \$1,000,000 Each Disease - Each Employee
 - \$1,000,000 Each Disease - Policy Limit
- c. To include U.S. Longshoremen and Harbor Workers Act

3. Commercial General Liability Insurance (Including Contractual Liability)

All Enrolled Contractors must have General Liability insurance covering third party losses that occur away from the Project and after final completion or OCIP termination or cancellation. Excluded Parties must provide this coverage for all operations relating to Projects covered under the Rolling OCIP.

INSURANCE PROVIDED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS (CONTINUED)

Coverage shall include, but not be limited to, Premises-Operations, Personal Injury, Blanket Contractual Liability, Broad Form Property Damage, Fire Legal Liability, Independent Contractors, and Products/Completed Operations. Provided below are the minimum insurance limits required:

<u>Limits</u>	<u>All Parties</u>
\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products/Completed Operations Aggregate*
\$1,000,000	Personal Injury and Advertising Liability
\$ 100,000	Damages to Rented Premises

*Including term up to 5 years after substantial completion

4. Excess/Umbrella Liability

The General Contractor: \$5,000,000 Each Occurrence/Aggregate

Subcontractors: \$1,000,000 Each Occurrence/Aggregate

5. Aviation Liability

If required by the Owner, Aviation Liability insurance covering all owned, non-owned, and hired aircraft, used, operated, or hired by the General Contractor or the applicable Subcontractor in connection with the Project, including bodily injury, property damage, and Passenger Liability with a minimum limit of \$10,000,000 each occurrence.

6. Watercraft Liability

If required by the Owner, Watercraft Liability and/or Protection and Indemnity insurance covering all owned, non-owned, and hired watercraft, used, operated, or hired by the General Contractor or the applicable Subcontractor in connection with the Project, including bodily injury with a minimum limit of \$10,000,000 each occurrence.

INSURANCE PROVIDED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS (CONTINUED)

7. Qualifications of Insurers

Each Insurer who provides any insurance coverage required by this section must meet each of the following requirements:

- a. The Insurer must be duly licensed and/or authorized by the State of Georgia to transact a property and/or casualty insurance business in the State of Georgia;
- b. The Insurer must have an A.M. Best Policyholder Rating of an "A" and a Financial Rating of Class **V111** or higher.

8. Certificate of Insurance

Prior to commencing any work at the Jobsite, the General Contractor and all Subcontractors must provide the Owner with a Certificate of Insurance. Failure of any party to provide such certificates of insurance will not be relief from the responsibility to carry and maintain such insurance. Certificates should be sent to RRM.

Coverage must include and Certificates of Insurance must evidence (see sample in forms section):

- a) Reference to: DEKALB COUNTY GOVERNMENT, Rolling OCIP / All Other Projects, Other than the Water Treatment Plant
- b) Additional Insured: The General Contractor and Subcontractors shall include DEKALB COUNTY GOVERNMENT and General Contractor as Additional Insureds (as respects Automobile, General and Excess/Umbrella Liability). Coverage must be primary and non-contributory.
- c) Waiver of Subrogation (as respects to Workers Compensation) in favor of DEKALB COUNTY GOVERNMENT and General Contractor.
- d) Notice of Cancellation: All required policies shall be endorsed to provide that notice of cancellation shall be given to Owner by insurance agent/broker or carrier; or if unavailable, General Contractor or Subcontractors must provide Owner with thirty (30) Days advance written notice of cancellation or non-renewal (ten (10) days in the event of cancellation for non-payment of premium).

INSURANCE PROVIDED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS (CONTINUED)

9. Other Insurance Needed As Determined by Enrolled Contractors

The OCIP, as previously outlined, is intended to afford broad coverage and relatively high limits of liability, but may not provide all the insurance needed. Enrolled Contractors should have their insurance agent, broker or consultant review the coverages and limits outlined herein for adequacy against your existing program. In order to eliminate duplicate insurance premiums, Enrolled Contractors should amend their insurance program to recognize coverage provided to them under this OCIP. It is suggested that Enrolled Contractors' General Liability policies exclude coverage for this Jobsite only to the extent coverage is provided for this Project by the OCIP. In this manner, any broadened coverages or limits under the Enrolled Contractors' insurance program will still be available to them. Any insurance for higher limits or other coverages that are required by the Contract, by law, or needed for the Enrolled Contractors' protection must be purchased separately. Any premiums, deductibles or self-insured retentions under any additional coverages shall be borne by Enrolled Contractors.

Any policy of insurance covering owned or leased machinery, watercraft, vehicles, tools, or equipment against physical loss or damage must include waiver of subrogation endorsements in favor of the Owner and the General Contractor, their employees, agents or assigns.

ENROLLING IN THE OCIP – COMPLETING THE FORMS

Step 1 - Online Registration Process

The OCIP utilizes an online enrollment program through Resurgens Risk Management. General Contractors and all Subcontractors shall complete the online enrollment as outlined below.

Key Information You Will Need To Begin

1. Project Number
2. Company's Federal Identification #
3. Certificate of Insurance
4. General Liability Rate Sheets and Excess/Umbrella Liability Declaration Page

New Users

1. Go to OCIP online registration site at <http://www.dekalbwatertreatmentplantocip.com>
2. Complete New User Registration information on OCIP main page.
3. Verify your account by entering the user validation code, which will be sent via email.
4. Wait for General Contractor's online approval; then proceed with registration process.

Existing Users

1. Go to OCIP online registration site at <http://www.dekalbwatertreatmentplantocip.com>
2. Enter username / password.
3. Under the heading New OCIP Registration, select Register, enter project number.
4. Update user profile, select awarding contractor; then proceed with online registration.

Completing Online Forms

1. Complete Form 1; Check the Signature Box, Send.
2. Complete Form 2, Check the Signature Box, Submit.
3. Review your Submittal Form, Send.
4. You will receive a notice which states "Your Registration application is complete."
5. Email or fax the following to dcwtpocipadmin@rrmgt.com or 404-591-2883
 - a. Insurance Certificate (See sample certificate in Forms Section)
 - b. General Liability Additional Insured Endorsement (Comparable to CG 20 10 11/85)
 - c. General Liability & Excess/Umbrella Liability Policy Declaration and Rate Sheets

For detailed registration instructions, go to
<http://www.dekalbwatertreatmentplantocip.com>
Select "Instructions" at the bottom of the page.

ENROLLING IN THE OCIP – COMPLETING THE FORMS (continued)

Step 1 - Online Registration Process

Important Notes

- ☆ 1. Subcontractors may not commence work on this Project until enrollment is complete which requires that all forms are received, approved, and a certificate of insurance is provided by the OCIP Administrator to the Enrolled Contractor.
- ☆ 2. Enrollment is NOT automatic – Contractors are required to submit a separate registration for each project/contract they are performing work under. Excluded contractors (those not eligible to participate in the OCIP due to contract value or scope of services) are also required to complete the online registration.
- ☆ 3. Failure to submit the completed forms and documentation to the OCIP Administrator within 30 days of the initial request may result in a delay of your monthly progress payments and/or an insurance cost deduction to your contract based on a percentage of your contract value (as determined by the OCIP Administrator).
4. Premiums should be based on rates in force at the time of the Contract Award and are **not** subject to change during the project period. The Insurance Deduction will be based on the amount shown on the Form 2 OR the amount included in the original bid, whichever is higher
5. Accurately estimate payroll anticipated for this Contract (initial bid and all change orders) so as to develop an accurate bid deduction for the insurance costs. If it is determined at any time that your payroll was underestimated, there will be an interim adjustment of the bid deduction. At completion of the each Enrolled Contractor's work, a final audit will be conducted of the actual payroll, receipts and insurance costs. The variance will be calculated based on the earned payroll or receipts less those estimated during the bidding and change order process. The earned insurance cost will be based on the rates shown on the approved Form 2. These rates will be applied to the entire project period. The difference will be adjusted from the Contract amount prior to the release of retainage.
6. The Insurer has the right to examine and/or audit all records pertaining to this Project.
7. Accurately utilize valid classification codes as defined in the latest version of the NCCI Scopes Manual. These will also be audited and will be subject to change by the OCIP Administrator should the work being performed not coincide with the classification codes and rates submitted in the Form 2. **(Not applicable for this program)**

ENROLLING IN THE OCIP – COMPLETING THE FORMS (CONTINUED)

Step 2 – Updating Enrollment to Include Change Orders

Enrolled Contractors must submit a Form 3 – Supplemental Insurance Information Form for any scope of work change orders to their contract for \$20,000 or greater.

Completing Online Form

1. Go to <http://www.dekalbwatertreatmentplantocip.com>
2. Sign into user account.
3. Select the applicable project number from the drop down box under Active Enrollments.
4. Select Form 3.
5. Provide additional contract value, scope of work, start/end dates, estimated man-hours and new General Liability and Excess/Umbrella Liability codes, rates, etc.
6. Enter your name in the “Form Completed By” field, insert phone number, Submit.
7. Acceptance is subject to General Contractor’s approval.

ENROLLING IN THE OCIP – COMPLETING THE FORMS (CONTINUED)

Step 3 – Completion of Work

Form 6 – Notice of Completion

Each Enrolled Contractor will submit a Form 6 - Notice of Completion, once the Enrolled Contractor has completed all of its work (including punch-list items).

1. To submit an online Form 6 – Notice of Completion Form, go to <http://www.dekalbwatertreatmentplantocip.com>
2. Sign into user account.
3. Select the applicable project number from the drop down box under Active Enrollments.
4. Select Form 6.
5. Insert date of completion.
6. Provide names of subcontractors completing work on the same date.
7. Update company information if necessary.
8. Enter your name in the “Form Completed By” field, insert your phone number, Submit.
9. Acceptance is subject to General Contractor’s approval.

Upon receipt and approval of the Form 6 – Notice of Completion:

The OCIP Administrator shall:

Compute bid deduct reconciliation and forward Enrolled Contractor’s bid deduct reconciliations to the General Contractor and forward the General Contractor’s bid deduct reconciliation to the Owner. Once the final insurance deductions have been approved by the OCIP Administrator, the General Contractor and Owner, no further adjustments, revisions or corrections to the insurance deductions will be allowed.

The Owner (General Contractor) (for all Subcontractors) shall:

Close out the General Contractor’s Contract. The General Contractor closes out the Subcontractor’s Contract.



Dekalb County CIP Rolling OCIP
Attn: Ocip Administrator / dcwtpocipadmin@rrmgt.com
1201 Peachtree St. Bldg 400 Ste. 1730, Atlanta, Ga. 30361
Fax(404)873-1574
FORM 1 - REGISTRATION FORM (PART 1)

NOTE: The Primary Contractor must Complete the Dekalb County OCIP Form 1 for EACH subcontractor on the project , as well as for the Primary.

Fields marked with asterisk are REQUIRED for submission of this form.

FORM 1.1: COMPANY CONTACT INFORMATION				
Project ID*	Project Name*			
<input type="text"/>	<input type="text"/>			
Name of Firm*	FEIN* <input type="text"/>			
<input type="text"/>	<input type="text"/>			
Address*	City, State, Zip*			
<input type="text"/>	<input type="text"/>			
Phone Number	Contractor is *			
<input type="text"/>	Incorporated <input type="checkbox"/> Partnership <input type="checkbox"/> Sole Prop. <input type="checkbox"/> Joint Venture <input type="checkbox"/>			
Web Address	Ownership			
<input type="text"/>	African-American <input type="checkbox"/> Hispanic <input type="checkbox"/> Female <input type="checkbox"/> Disadvantaged <input type="checkbox"/>			
Office Contact Name*	Phone*	Ext*	Fax*	E-Mail*
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Safety Contact Name	Phone	Ext	Fax	E-Mail
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Dekalb County CIP Rolling OCIP
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Fields marked with asterisk are REQUIRED for submission of this form.

FORM 1.1: COMPANY CONTACT INFORMATION				
Project ID*	Project Name*			
<input type="text"/>	<input type="text"/>			
Name of Firm*	FEIN*			
<input type="text"/>	<input type="text"/>			
Address*	City, State, Zip*			
<input type="text"/>	<input type="text"/>			
Phone Number	Contractor is *			
<input type="text"/>	Incorporated <input type="checkbox"/> Partnership <input type="checkbox"/> Sole Prop. <input type="checkbox"/> Joint Venture <input type="checkbox"/>			
Web Address	Ownership			
<input type="text"/>	African-American <input type="checkbox"/> Hispanic <input type="checkbox"/> Female <input type="checkbox"/> Disadvantaged <input type="checkbox"/>			
Office Contact Name*	Phone*	Ext*	Fax*	E-Mail*
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Safety Contact Name	Phone	Ext	Fax	E-Mail
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ENROLLING IN THE WRAP-UP – FORMS SECTION (CONTINUED)

Form 1 – OCIP Enrollment Request Form Part I (Cont.)

FORM 1.2: CONTRACT INFORMATION

Type of Work*	<input type="text"/>		
Start Date (mm/dd/yyyy)*	<input type="text"/>	Est. Completion (mm/dd/yyyy)*	<input type="text"/>
Contract Value*	<input type="text"/>	Est. # of Subs	<input type="text"/>
Awarding Contractor*	<input type="text"/>	Primary Contractor	<input type="text"/>

FORM 1.3: CONFIRMATION

Form 1 completed by (Print or type the name of person completing form)*	<input type="text"/>	Date Completed *	<input type="text"/>
Title	<input type="text"/>	Phone*	<input type="text"/>

I certify that I am the above described person, and that i am legally authorized and eligible to submit the information contained in this form on behalf of the above described contractor in relation to the work performed within the scope of the DeKalb County OCIP program. I affirm that all information contained in this document is true and complete to the best of my knowledge.

Signature*

ENROLLING IN THE WRAP-UP – FORMS SECTION (CONTINUED)

Form 2 – OCIP Enrollment Request Form Part II



Dekalb County CIP Rolling OCIP
Attn: Ocip Administrator / dcwtpocipadmin@rrmgt.com
1201 Peachtree St. Bldg 400 Ste. 1730, Atlanta, Ga. 30361
Fax(404)873-1574

FORM 2 - REGISTRATION FORM (PART 2)

NOTE: Required insurance coverages and limits are shown in the contractor instruction materials. Information disclosed on this form is subject to audit and adjustment throughout the term of the project. After completing this form, fax your policy declaration pages and schedule rate sheets to (404) 591-3515.

NO certificates or policies will be provided under the OCIP until this form and all related documents are received.

Fields marked with asterisk are REQUIRED for submission of this form.

FORM 2.1: INSURANCE PROVIDER INFORMATION

Project	Project Name		
<input type="text"/>	<input type="text"/>		
Contractor	FEIN		
<input type="text"/>	<input type="text"/>		
CURRENT INSURANCE INFORMATION			
Required insurance coverages and limits are shown in the Bid Brochure, Paragraph "A". Information disclosed on this form is subject to audit and adjustment throughout the term of the construction project.			
Insurance Broker or Agent Company*	Insurance Broker Address		
<input type="text"/>	<input type="text"/>		
Insurance Contact	Phone*	Fax	Email
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ENROLLING IN THE WRAP-UP – FORMS SECTION (CONTINUED)

Form 2 – OCIP Enrollment Request Form Part II (Cont.)

FORM 2.2: GENERAL LIABILITY INFORMATION (cont.)

GL Code*	Rate*	Est. Payroll/ Receipts*	Premium*
Subtotal*			
Premium Discount:			
Total GL Premium*			
Estimated Subcontractor Premiums (Submit cost identification sheet for each subcontractor or calculate 3% of subcontractor value for each subcontractor's estimated insurance cost) *			

It is extremely important to accurately estimate payrolls anticipated for this project if GL premiums are based on payroll and to accurately estimate receipts if GL premiums are based on receipts.

After submitting this form, email a copy of your declaration page and schedule rate sheet to dcwtpocipadmin@rrmgt.com: no enrollment will be processed until they are received.

FORM 2.3: UMBRELLA / EXCESS COVERAGE

Umbrella/Excess Insurer	Coverage Limit	Policy Period (mm/dd/yyyy)	Umbrella/Excess Policy Number	
		to		
		Rate	Est. Payroll/Receipts	Umbrella/Excess Premium
		Profit & Overhead Percentage Used in Bid	GL+Umbrella/Excess Premium	Profit & Overhead Premium
Profit & Overhead		%		
This amount must equal the insurance credit indicated on your bid proposal. "Grand Total Premiums" represents the amount of insurance premiums the contractor has excluded from the bid amount since the Owner is furnishing the construction insurance.				Grand Total Premiums

ENROLLING IN THE WRAP-UP – FORMS SECTION (CONTINUED)

Form 2 – OCIP Enrollment Request Form Part II (Cont.)

FORM 2.4: AUTO INSURANCE INFORMATION

Current Auto Liability Insurance Company	Policy Period (mm/dd/yyyy to mm/dd/yyyy)	Auto Policy Number*		
<input type="text"/>	<input type="text"/> to <input type="text"/>	<input type="text"/>		
Liability Coverage Limit	# Vehicles Covered	# Vehicles On Site	# Mobile Equipment	Total Auto Annual Premium
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

FORM 2.5: CONFIRMATION

NOTE: It is each Contractor's responsibility to notify its insurance carrier to exclude all work to be done under this OCIP contract from its current insurance program.

Dekalb County as sponsor of the OCIP, or their Agent is granted permission by the Contractor to inspect the insurance and receipt records used in determining the above credit. At completion of the work, Dekalb County's Agent shall audit the project receipt records of the Contractor and adjust contract amount for the final audited insurance premiums, in accordance with the insurance premium audit provisions of the insurance policy. Any and all returns of premiums, dividends, discounts or other adjustments to any OCIP policy is assigned, transferred and set over absolutely to Dekalb County. This assignment is valid for insurance policies whose premiums have been paid by Dekalb County on behalf of such Contractor. Email all supporting information to dcwtpocipadmin@rrmgt.com as soon as you have submitted this form. No certificates or policies can be provided until this form and related documents are received.

Signed (Name of person completing form)*	Date Completed
<input type="text"/>	<input type="text"/>
Title	Phone*
<input type="text"/>	<input type="text"/>

I understand that this web-based form constitutes a legal document. I certify that I am the above-described person, and that I am legally authorized and eligible to submit the information contained in the form on behalf of the above described contractor in relation to work to be performed within the scope of the Dekalb County OCIP program. I affirm that all information in this document is true and complete to the best of my knowledge.

Signature

Basis of Insurance Cost Calculation – Coverage and Limits

1. Commercial General Liability –

- \$ 1,000,000 Each Occurrence
- \$ 2,000,000 General Aggregate
- \$ 2,000,000 Products/Completed Operations Aggregate*
- \$ 1,000,000 Personal Injury and Advertising Liability
- \$ 100,000 Damages to Rented Premises

*Including term up to 5 years after substantial completion

2. Excess/Umbrella Liability

The General Contractor: \$5,000,000 Each Occurrence/Aggregate

Subcontractors: \$1,000,000 Occurrence/Aggregate

Form 3 –supplemental Insurance Information

Form 3 – SUPPLEMENTAL INSURANCE



Dekalb County CIP Rolling OCIP
Attn: Ocip Administrator / dcwtpocipadmin@rrmgt.com
1201 Peachtree St. Bldg 400 Ste. 1730, Atlanta, Ga. 30361

FORM 3 - CHANGE ORDER FORM

Contractor:		FEIN:	
<input type="text"/>		<input type="text"/>	
Address:		City, State, Zip	
<input type="text"/>		<input type="text"/>	
Office Contact Name:	Phone & Ext.:	Office Contact E-Mail:	Fax:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Project ID:	Contract Value:	Type of Work:	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
Awarding Contractor:	Construction Manager:	Start Date (mm/dd/yyyy):	Est Completion Date (mm/dd/yyyy):
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

For work to be performed under this Contract/Change Order: Information disclosed on this form is subject to audit and adjustment throughout the term of the construction project.

GL Rate Based On*

- Payroll
 Receipts
 Receipts per \$100
 Receipts per \$1000
 Flat Rate Premium

GL Code*

Rate*

Est. Payroll/ Receipts*

Premium*

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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ENROLLING IN THE OCIP – FORMS SECTION (CONTINUED)

Form 6 – Notice of Completion (Cont.)



Dekalb County CIP Rolling OCIP
Attn: Ocip Administrator / dcwtpocipadmin@rrmgt.com
1201 Peachtree St. Bldg 400 Ste. 1730, Atlanta, Ga. 30361
Fax(404)873-1574
FORM 6 - COMPLETION OF WORK FORM

Contractor:	<input type="text"/>	FEIN:	<input type="text"/>
Please be advised, we are scheduled to complete our work for			
Awarding Contractor:	<input type="text"/>	Prime Contractor:	<input type="text"/>
Project ID:	<input type="text"/>	Completion Date:	<input type="text"/>
Project Name:	<input type="text"/>		

We used the following subcontractors, who will also complete their work on the date shown above

- This is our only job at Dekalb County
- We are still working on the following jobs at Dekalb County

Awarding Contractor	Job Name and Description	Prime Contractor
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Form Completed by (printed or typed name):

[Redacted]

Phone:

[Redacted]

Title:

[Redacted]

Date:

[Redacted]

Signature

[Redacted]

ACORD™ CERTIFICATE OF LIABILITY INSURANCE DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER INSURANCE AGENT'S NAME ADDRESS CITY, STATE ZIP CODE TELEPHONE NO. (INCLUDING AREA CODE)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">CONTACT NAME:</td> </tr> <tr> <td>PHONE (A/C, No. Ext):</td> <td>FAX (A/C, No):</td> </tr> <tr> <td colspan="2">E-MAIL ADDRESS:</td> </tr> <tr> <td style="text-align: center;">INSURER(S) AFFORDING COVERAGE</td> <td style="text-align: center;">NAIC#</td> </tr> </table>	CONTACT NAME:		PHONE (A/C, No. Ext):	FAX (A/C, No):	E-MAIL ADDRESS:		INSURER(S) AFFORDING COVERAGE	NAIC#				
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PHONE (A/C, No. Ext):	FAX (A/C, No):												
E-MAIL ADDRESS:													
INSURER(S) AFFORDING COVERAGE	NAIC#												
INSURED YOUR COMPANY NAME ADDRESS CITY, STATE, ZIP CODE TELEPHONE NO. (INCLUDING AREA CODE)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>INSURER A : ABC Insurance Company</td><td></td></tr> <tr><td>INSURER B : DEF Insurance Company</td><td></td></tr> <tr><td>INSURER C : GHI Insurance Company</td><td></td></tr> <tr><td>INSURER D : JKL Insurance Company</td><td></td></tr> <tr><td>INSURER E :</td><td></td></tr> <tr><td>INSURER F :</td><td></td></tr> </table>	INSURER A : ABC Insurance Company		INSURER B : DEF Insurance Company		INSURER C : GHI Insurance Company		INSURER D : JKL Insurance Company		INSURER E :		INSURER F :	
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INSURER D : JKL Insurance Company													
INSURER E :													
INSURER F :													

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADD L INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY			Policy Number	MO/DAY/YR	MO/DAY/YR	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input type="checkbox"/> OCCUR						DAMAGES TO RENTED PREMISES (Ea. occurrence)	\$ 100,000
							MED EXP (Any one person)	\$
							PERSONAL & ADV INJURY	\$1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC						PRODUCTS-COMP/OP AGG	\$2,000,000
B	AUTOMOBILE LIABILITY			Policy Number	MO/DAY/YR	MO/DAY/YR	COMBINED SINGLE LIMIT	
	<input type="checkbox"/> ANY AUTO						(Ea. accident)	\$1,000,000
	<input checked="" type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per person)	\$
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS					BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
C	UMBRELLA LIAB			Policy Number	MO/DAY/YR	MO/DAY/YR	EACH OCCURRENCE	SEE
	EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/>						AGGREGATE	Limit
	DED <input type="checkbox"/> RETENTION \$							Requirements
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		N/A	Policy Number	MO/DAY/YR	MO/DAY/YR	OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N					E.L. EACH ACCIDENT	\$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE – EA EMPLOYEE	\$1,000,000
							E.L. DISEASE – POLICY LIMIT	\$1,000,000
	OTHER							

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 RE: DEKALB COUNTY GOVERNMENT, Water Treatment Plant Program ADDITIONAL INSURED (AUTO, GENERAL & EXCESS/UMBRELLA LIABILITY): DEKALB COUNTY GOVERNMENT and (Name of General Contractor). Coverage is primary & non-contributory.
 WAIVER OF SUBROGATION (WORKERS' COMPENSATION) for: DEKALB COUNTY GOVERNMENT and (Name of General Contractor)

CERTIFICATE HOLDER DeKalb County Government c/o Resurgens Risk Management Fax: (404)873-1574 dcwtpocipadmin@rrmgt.com	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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PLEASE SUBMIT TO: RRM C/O Kendall Ross Phone No: (404) 591-2895, Fax No: (404) 873-1574, E-Mail Address: dcwtpocipadmin@rrmgt.com