

**LETTER OF TRANSMITTAL**

TO:

Global Infrastructure, Inc.  
Mack Jones Enterprises, Inc.  
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UWS, Inc  
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Talley Construction, Inc.  
Complete Contracting Solutions, LLC

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FROM: Wil Jackson, P.E.

DATE: August 29, 2025

PROJ. NO.: G24024

SUBJECT: Addendum No. 1  
City of Fort Oglethorpe  
Battlefield Parkway Water Line Replacement Contract 1/ Contract 2

PAGES: 41 pages to follow (plus 13 pages of Drawings)

<b>PLEASE RESPOND</b>  ➔ ➔ ➔ ➔	<b>TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 1 PLEASE SIGN AND EMAIL TO CTI <a href="mailto:vvisco@ctiengr.com">vvisco@ctiengr.com</a></b>
	Company _____
	Signature _____
	Title _____
	Date _____

ID 862538

## ADDENDUM NO. 1

### BATTLEFIELD PARKWAY WATER LINE REPLACEMENT CONTRACT 1/ CONTRACT 2

#### CITY OF FORT OGLETHORPE, GEORGIA CTI PROJECT NO. G24024

The following changes shall be made to the Contract Documents, Specifications, Clarifications, and Drawings:

#### I. CONTRACT DOCUMENTS

##### A. **SECTION 00 01 10, Table of Contents.**

1. DELETE Page 00 01 10-2 and REPLACE with 00 01 10-2.1

##### B. **Section 00 11 00, Advertisement for Bids.**

1. DELETE Page 00 11 00-1 and REPLACE with the attached 00 11 00-1.1  
The New Bid Opening Date: Thursday, September 18, 2025, same time of 2 p.m.

##### C. **Section 00 42 00, Bid Schedule.**

1. Contract 1: DELETE pages 00 42 00-1 through 00 42 00-7 and REPLACE with the attached 00 42 00-1.1 through 00 42 00-7.1
2. Contract 2: DELETE pages 00 42 00-1 through 00 42 00-7 and REPLACE with the attached 00 42 00-1.1 through 00 42 00-7.1

#### II. SPECIFICATIONS

##### A. **Appendix B.**

1. ADD Contract 1: GDOT Permit No. U-047-012002-6

#### III. CLARIFICATIONS

- A. This bid is for two (2) separate contracts. Bidders can bid on one (1) or both contracts.
- B. Where light poles will be required to be temporarily removed, replacement of the pole foundation with any miscellaneous fittings within the foundation will need to be included. The bid schedules have been updated to reflect this. Conduit and wiring to the poles are not anticipated to be replaced.
- C. Deviations from the plan that are more suitable and advantageous for construction may be submitted to the Engineer via written Request for Information (RFI). Where unknown existing features are encountered that require work outside of the current scope, a claim may be submitted to the Engineer.

#### IV. DRAWINGS

##### **A. Contract 1 Drawings**

1. DELETE 4.2 and REPLACE with 4.3
2. DELETE 5.1 and REPLACE with 5.3
3. DELETE 6.1 and REPLACE with 6.3
4. DELETE 7.1 and RELPACE with 7.3
5. DELETE 8.1 and REPLACE with 8.3
6. DELETE 9.1 and REPLACE with 9.3
7. DELETE 10.1 and REPLACE with 10.3
8. DELETE 11.1 and REPLACE with 11.3
9. DELETE 12.1 and REPLACE with 12.3

##### **B. Contract 2 Drawings**

1. DELETE C2.02 and REPLACE with C2.03
2. DELETE C3.02 and REPLACE with C3.03
3. DELETE C4.02 and REPLACE with C4.03
4. DELETE C5.01 and REPLACE with C5.03

Date: August 29, 2025

CTI Engineers, Inc.  
/s/ Wil Jackson, P.E.  
Project Manager

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01 78 00	Project Closeout
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### DIVISION 03 - CONCRETE

03 30 00	Cast-In-Place Concrete
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### DIVISION 31 - EARTHWORK

31 20 00	Earthwork
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33 12 19	Fire Hydrants
33 13 00	Disinfection of Potable Water Lines and Water Storage Tanks

### DIVISION 40 - PROCESS INTEGRATION

40 05 13.53	Ductile Iron Pipe and Fittings
40 05 33	Pipe Couplings and Expansion Joints
40 05 61	Valves

### APPENDIX

**A** Contract 2: GDOT Permit No. U-47-011462-6

**B** Contract 1: GDOT Permit No. U-47-012002-6



**ADVERTISEMENT FOR BIDS**  
**ITB # 006-25**

Owner: City of Fort Oglethorpe, Georgia

Separate sealed Bids for furnishing of all materials, labor, tools, equipment, and appurtenances necessary for the construction of the Battlefield Parkway Water Line Replacement will be received by the Owner at the City of Fort Oglethorpe, 500 City Hall Drive, Fort Oglethorpe, GA 30742, until 2:00 p.m., local time, on Thursday, September 18, 2025, and then at said office publicly opened and read aloud.

Contract 1: The Project consists of the following major elements: replacement of approximately 5,200 linear feet of 8-inch ductile iron pipe for the water system on Battlefield Parkway. The project will include fire hydrants, valves, fittings, service lines, and other components as required for the completion of the project. Contract 2: The Project consists of the following major elements: removal and replacement of approximately 2,200 linear feet existing 8-inch PVC water line with new 8-inch DIP water line and reconnection of water service lines. The Project is located along Battlefield Parkway between Fant Drive and South Cedar Lane.

Copies of the Contract Documents and Specifications, including bidding documents and requirements, and Contract Drawings may be examined at the offices of the Engineer, CTI Engineers, Inc., 1122 Riverfront Parkway, Chattanooga, TN 37402 (phone 423/267-7613, [www.ctiengr.com](http://www.ctiengr.com)). Copies may be obtained there upon payment of \$100.00 for each set. This payment is not refundable.

Bidders must be listed on Engineer's list of plan holders. Plan holders are given the opportunity to view and/or purchase the Contract Documents, Specifications, and Drawings, and are then added to the Engineer's list of plan holders. Documents are available for purchase but purchase of the Contract Documents, Specifications, and Drawings is not required.

Engineer shall be provided with the following information: mailing address for U.S. Postal Service, physical delivery address, telephone number, contact person, and email address.

A Bid Bond of 5% of the total project cost is to be included in the proposal package. The Successful Bidder will be required to furnish performance and payment bonds with the executed Agreement meeting the requirements of the Contract Documents and executed on the forms attached to the Agreement. The terms and time for payment are set forth in the Agreement.

Surety and insurance companies must have an AM Best rating of A-10 or greater, be listed in the Federal Registry of Companies holding Certificates of Authority and Acceptable Sureties on Federal Bonds, be licensed by the Georgia Insurance Department and the Georgia Secretary of State to do business in the State of Georgia.

Contractor must have minimum Worker's Comp and General Liability Insurance in full force and effect. No proposal will be considered unless it is accompanied by satisfactory evidence that the Bidder holds Georgia State Contractor's License of proper classification and in full force and effect, in compliance with the provisions of O.C.G.A. Sec. 43-14-2 et seq. Pursuant to O.C.G.A. § 13-10-91, all contractors and sub-contractors performing work within the State of Georgia on a contract with a public employer must register and participate in a federal work authorization. Fort Oglethorpe will require certification from contractor that this requirement has been met.

Each Respondent shall submit with its proposal a copy of current Business License and/or Occupational Tax Certificate issued in the state it resides. If bidder cannot prove this license, it will be required to obtain one from Ft. Oglethorpe if it is the Awarded Respondent.

Fort Oglethorpe reserves the right to accept or reject any and all proposals, to waive formalities, technicalities or irregularities and to re-advertise if necessary. The contract between Fort Oglethorpe and the selected responder shall be subject to the payment agreement drawn up between Fort Oglethorpe and the selected responder.

Date: August 13, 2025  
August 27, 2025

Fort Oglethorpe, Georgia  
/s/ Molly Huhn, City Manager

**BID SCHEDULE (CONTRACT 1)**  
**BATTLEFIELD PARKWAY WATER LINE REPLACEMENT**  
**CITY OF FORT OGLETHORPE**  
**FORT OGLETHORPE, GEORGIA**

**SCHEDULE I - BATTLEFIELD PARKWAY WATER LINE**

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
00 61 13	<b>Performance &amp; Payment Bonds</b> (Max 2% of Bid)	LS	1		\$ -
00 72 00	<b>General Conditions</b> , Including Project Management, Site Safety and Security, Site Utilities, Portable Toilet, Maintenance, and Supervision	LS	1		\$ -
01 11 00	<b>Mobilization</b> (Maximum 2.5% of Bid) Including Locating and Excavating (pot-holing) the Existing Utilities, Coordination with the City of Fort Oglethorpe, and Staking or marking center line for Pipe Alignment	LS	1		\$ -
01 32 38	<b>Pre-Construction Video Taping</b> of Existing Ground Conditions along the path of the Proposed Water Line Improvements	LS	1		\$ -
01 22 00b	<b>Traffic Control Devices for Traffic Control and Road Closure</b> to Meet MUTCD and GDOT Requirements and in Coordination with the City of Fort Oglethorpe	LS	1		\$ -
01 78 39	<b>GPS Survey</b> for Record Drawings	LS	1		\$ -
03 05 23	<b>Utility Line Crossings of Highways &amp; Roads</b>				
03 05 23a	<b>Installation of 8-in DIP Carrier Pipe</b> in Existing 16-in Steel Casing Pipe, Including Excavation of Casing Ends, Installation of Pipe, Restrained Joint Gaskets, Casing Spacers, End Seals, Compacted Backfill of Trench, Topsoil, Fine Grading, Seeding, and Mulching	LF	110		\$ -
03 30 00	<b>Cast-In-Place Concrete</b> , Complete in Place as Specified and/or Shown on the Drawings				
03 30 00a	<b>Cast-In-Place Concrete - 3,000 PSI Class B</b> for Thrust Blocks, Pipe Encasement, and Pipe Protection for Open Cut Trenches in Paved Areas	CY	75		\$ -
03 30 00b-1	<b>Class A (4,000 psi) 8-inch Thick Concrete for Driveway Apron and Parking Lot Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	1,250		\$ -
03 30 00b-2	<b>Class A (4,000 psi) 8-inch Thick Concrete Pavement Base for Asphalt Road Repairs per GDOT Standard 1401</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	3,600		\$ -
03 30 00c	<b>Class A (4,000 psi) 4-inch Thick Concrete for Sidewalk Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	1,230		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
03 30 00d	<b>Class A (4,000 psi) 8-inch Thick Concrete for Median Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	130		\$ -
03 30 00e	<b>Class A (4,000 psi) 4-inch Thick Concrete for Curb Cut Ramp</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour Finish Rubbing, and Detectable Warning Surface, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	230		\$ -
03 30 00f-1	<b>Class A (4,000 psi) 6-inch Thick Concrete for Header Curb (GDOT Standard 9032B, Type 2)</b> , Including Excavation, 2-Inch Bedding Stone, Form Work, Expansion Joints, Finish Rubbing, and Site Restoration, Complete-In-Place	LF	1,150		\$ -
03 30 00f-2	<b>Class A (4,000 PSI) Concrete for Curb and Gutter (GDOT Standard 9032B, Type 2)</b> , Including Form Work, Expansion Joints, Finish Rubbing, and Roadway Repair. Complete-In-Place.	LF	750		\$ -
<b>31 20 00</b>	<b>Earthwork</b>				
31 20 00a	<b>Unclassified Demolition/Excavation</b> of Existing Roadway, Curbs, Sidewalks, Brick, and Debris Required for Water Line Trench and Temporary Service Lines, Including Preservation of Existing Utilities located near Water Line Trench, Temporary Removal of Signage and Lamp Posts, Fences, etc.	LS	1		\$ -
31 20 00b-1	<b>Site Restoration Complete</b> , for Areas outside Paved Roadway or Sidewalk Areas, Including Restoration of Landscaping, Business Signs, Fences, etc.	LS	1		\$ -
31 20 00b-2	<b>Site Restoration Complete</b> , Including Temporary Removal and Re-Installation of Lamp Posts with All Associated Appurtenances As Required for Construction of New Water Line, Including Lamp Post Foundation and miscellaneous Fittings within the Foundation (As Directed by Engineer)	EA	30		\$ -
31 20 00c-1	<b>Crushed Stone Backfill</b> , in Trench for 8-in Water Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade	LF	2,720		\$ -
31 20 00c-2	<b>Crushed Stone Backfill</b> , in Trench for Permanent Water Service Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade (Temporary Water Service Lines Paid Separately)	LF	170		\$ -
31 20 00d	<b>Crushed Stone Bedding Material</b> , in Excess of that Required for Standard Bedding and Haunching, where Unsuitable Soil is Encountered or where Additional Material for Bedding is Required or as Directed by the Engineer, Including Undercut Excavation, Disposal, and Stone Placement	CY	150		\$ -
31 20 00e-1	<b>Compacted Crushed Base Stone (GAB) for Asphalt and Concrete Driveways and Parking Areas Pavement and Repair Areas</b> , Including Stone Placement, Compaction, and Fine Grading for Roads, Parking Lots, Driveways, and Transitions to Existing Driveways	Tons	250		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
31 20 00e-2	<b>Compacted Crushed Base Stone (GAB) for Concrete Sidewalk, Curb Ramp, and Repair Areas,</b> Including Stone Placement, Compaction, and Fine Grading for Roads, Parking Lots, Driveways, and Transitions to Existing Driveways	Tons	20		\$ -
31 20 00f-1	<b>Trench Rock Excavation</b> by Drill & Blast, Rock Trenching, or Hoe-ramming Methods, Including Hauling and Proper Disposal of Spoil Materials	LF	1,000		\$ -
31 20 00f-2	<b>Clean Fill Dirt Backfill</b> , for Initial Backfill above Pipe in areas where Trench Rock Removal was performed (As Directed by the Engineer)	CY	500		\$ -
31 20 00g	<b>Sifted Topsoil</b> (Purchased and Imported to Project Site) as Approved by Engineer, Not Including On-site Soil	CY	550		\$ -
31 20 00h	<b>Final Grading and Cleanup</b> of areas outside Sidewalks, Driveways, Parking Lots, and Roads, Including Topsoil Placement, and Grading (Not Including Grassing and Mulch)	LF	3,150		\$ -
<b>31 25 00</b>	<b>Sedimentation and Erosion Control</b>				
31 25 00a	<b>Inlet Sediment Trap (Sd2)</b> , For Inlet Protection Including Installation, Maintenance, and Removal	EA	10		\$ -
31 25 00b	<b>Construction Entrance (CO)</b> Including Stone and Geotextile Filter Fabric	EA	1		\$ -
31 25 00c	<b>Concrete Washout Structure (CW)</b> , Including Installation, Maintenance, and Removal	EA	5		\$ -
<b>32 10 00</b>	<b>New and Replacement Paving - Including Materials</b>				
32 10 00a	<b>Heavy Duty Asphalt Pavement Replacement for Roads, Trench-Width</b> with 2" of 9.5 mm GDOT mix, Including Saw-cutting per GDOT Standard 1401	Tons	30		\$ -
32 10 00b-1	<b>Asphalt Pavement Replacement for Driveways and Parking Lots, Trench-Width</b> with 2.5" of 19 mm Binder Mix, Including Saw-cutting and Base Stone Compaction	Tons	120		\$ -
32 10 00b-2	<b>Asphalt Pavement Replacement for Driveways and Parking Lots, Trench-Width</b> with 1.5" of 9.5 mm GDOT mix, Including Saw-cutting	Tons	80		\$ -
<b>32 92 19</b>	<b>Seeding and Mulching - Including Materials</b>				
32 92 19a	<b>Temporary Mulching (Ds1)</b>	LF	3,150		\$ -
32 92 19b	<b>Temporary Seeding and Mulching (Ds2)</b>	LF	3,150		\$ -
32 92 19c	<b>Permanent Seeding And Mulch (Ds3)</b> , Including Topsoil placement, Seed Fertilizer, Limestone, and Mulch	LF	3,150		\$ -
<b>33 11 00</b>	<b>High Density Polyethylene (HDPE) Sleeve (Poly-Wrap) - Including Materials</b>				
33 11 00a	<b>HDPE Poly-Wrap for 8-in Ductile Iron Pipe</b> Installed in Trench near existing Gas Lines	LF	3,560		\$ -
<b>33 12 13</b>	<b>Material, Labor, and Equipment to Install Water Services</b>				
	<b>Material, Labor, and Equipment to Install 3/4-in or 1-in Water Services</b>				
33 12 13a	<b>8-in x 3/4-in or 1-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	30		\$ -
33 12 13b	<b>Permanent 3/4-in or 1-in Type K Copper Tubing</b> by Open Cut	LF	500		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
33 12 13c-1	<b>Reconnect Permanent 3/4-in or 1-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	30		\$ -
33 12 13c-2	<b>Reconnect Permanent 3/4-in or 1-in Copper Service Line to Existing Water Service Line</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	6		\$ -
33 12 13d	<b>Relocate Existing Water Meter</b> , Including, Backfill, Grading, Seeding, and Straw Mulch (If required for Installation of new DIP Water Line or Temporoary Service Line)	EA	30		\$ -
<b>Material, Labor, and Equipment to Install 2-in Water Services</b>					
33 12 13d	<b>8-in x 2-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	5		\$ -
33 12 13e	<b>Permanent 2-in Type K Copper Tubing</b> by Open Cut	LF	100		\$ -
33 12 13f	<b>Reconnect Permanent 2-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	5		\$ -
<b>33 12 19 Material, Labor, and Equipment to Install Hydrants</b>					
33 12 19a	<b>New Fire Hydrant Assembly Complete</b> , Including Hydrant, Anchor Coupling, 6-in Gate Valve, Thrust Restraint, and Stone Bedding (MJ Anchor Tee and Pipe Length to be Paid in Other Pay Items)	EA	13		\$ -
33 12 19b	<b>Removal of Existing Fire Hydrant Assembly</b> , Including Excavation, Removal of Existing Hydrant, Pipe, Fittings, Valve, and Appurtenances, Disposal of Soil and Debris, and Backfill	EA	11		\$ -
<b>40 05 13.53 Material, Labor and Equipment to Install Ductile Iron Pipe (DIP)</b>					
40 05 13.53a	<b>Removal of Existing 8-in PVC and Replacement in-place with New 8-in Ductile Iron Pipe</b> Installed in Trench, Including All Materials, Labor and Equipment	LF	3,000		\$ -
40 05 13.53b	<b>New 8-in Ductile Iron Pipe</b> Installed in Trench, Including All Materials, Labor and Equipment	LF	2,700		\$ -
<b>40 05 13.53 Ductile Iron MJ Pipe Fittings</b> (Published Weights for Ductile Iron, AWWA C-153 Compact Fittings)					
<b>Material, Labor, and Equipment to Install 8-in Fittings and Gaskets</b>					
40 05 13.53b-1	<b>8-in Miscellaneous Ductile Iron Fittings</b> Not Itemized for Payment per Each (Paid by Weight)	Lbs	1,500		\$ -
40 05 13.53b-2	<b>8-in x 8-in (Branch) MJ Tee</b>	EA	11		\$ -
40 05 13.53b-3	<b>8-in x 6-in (Branch) MJ Tee</b>	EA	1		\$ -
40 05 13.53b-4	<b>8-in x 6-in MJ Anchor Tee</b>	EA	13		\$ -
40 05 13.53b-5	<b>8-in 90 degree MJ Bend</b>	EA	3		\$ -
40 05 13.53b-6	<b>8-in 45 degree MJ Bend</b>	EA	1		\$ -
40 05 13.53b-7	<b>8-in 22.5 degree MJ Bend</b>	EA	6		\$ -
40 05 13.53b-8	<b>8-in x 6-in MJ Reducer</b>	EA	2		\$ -
40 05 13.53b-9	<b>8-in MJ Cap</b>	EA	1		\$ -
40 05 13.53b-10	<b>8-in MJ Sleeve</b>	EA	7		\$ -
40 05 13.53b-11	<b>8-in Anchor Coupling</b>	EA	36		\$ -
40 05 13.53b-12	<b>8-in Foster Adaptor</b>	EA	36		\$ -
40 05 13.53b-13	<b>8-in Mechanical Joint Restraint Devices</b>	EA	177		\$ -
40 05 13.53b-14	<b>8-in Bell or Pipe Joint Restrained Pipe Devices or Gaskets</b>	EA	243		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
<b>Material, Labor, and Equipment to Install 6-in Fittings and Gaskets</b>					
40 05 13.53b-15	<b>6-in Miscellaneous Ductile Iron Fittings</b> Not Itemized for Payment per Each (Paid by Weight)	Lbs	300		\$ -
40 05 13.53b-16	<b>6-in x 6-in (Branch) MJ Tee</b>	EA	2		\$ -
40 05 13.53b-17	<b>6-in 90 degree MJ Bend</b>	EA	1		\$ -
40 05 13.53b-18	<b>6-in MJ Cap</b>	EA	2		\$ -
40 05 13.53b-19	<b>6-in MJ Sleeve</b>	EA	3		\$ -
40 05 13.53b-20	<b>6-in Anchor Coupling</b>	EA	6		\$ -
40 05 13.53b-21	<b>6-in Foster Adaptor</b>	EA	6		\$ -
40 05 13.53b-22	<b>6-in Mechanical Joint Restraint Devices</b>	EA	21		\$ -
40 05 13.53b-23	<b>6-in Bell or Pipe Joint Restrained Pipe Devices or Gaskets</b>	EA	6		\$ -
<b>40 05 13.53 Material, Labor, and Equipment for Connection to Existing Water Line</b>					
40 05 13.53c-1	<b>Connection to Existing 8-in PVC Water Line by Cut-In Method</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	2		\$ -
40 05 13.53c-2	<b>Connection to Existing 6-in PVC Water Line by Cut-In Method</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	1		\$ -
40 05 13.53d	<b>Connection to Existing 8-in Gate Valve</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	9		\$ -
40 05 13.53e	<b>Connection to Existing 8-in PVC Water Line by Wet Tap Method</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	4		\$ -
40 05 13.53e	<b>Connection to Existing 6-in PVC Water Line by Wet Tap Method</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	3		\$ -
<b>40 05 61 Material, Labor, and Equipment to Install Valves</b>					
40 05 61a-1	<b>8-in Gate Valve Installed</b> , Including Valve Box & Cover, Concrete Suppor Block, Thrust Block, and Valve Box Extensions	EA	35		\$ -
40 05 61a-2	<b>6-in Gate Valve Installed</b> , Including Valve Box & Cover, Concrete Suppor Block, Thrust Block, and Valve Box Extensions	EA	3		\$ -
40 05 61b	<b>8-in Gate Valve Insert Installed on Existing 8-in PVC Water Line</b> , Including Valve Box & Cover, Concrete Suppor Block, Thrust Block, and Valve Box Extensions	EA	7		\$ -
40 05 61c	<b>Removal of Existing 8-in Gate Valve</b> , Including Excavation, Removal of Existing Valve and Appurtenances, Disposal of Soil and Debris, and Backfill	EA	5		\$ -
<b>34 00 00 Signs, Striping, and Signalization</b>					
34 00 00a	<b>Temporary Removal and Re-Installation of Existing Sign</b>	EA	16		\$ -
34 00 00b	<b>5" White Thermoplastic Solid Stripe</b>	LF	550		\$ -
34 00 00c	<b>24" White Thermoplastic Solid Strip for Stop Bar</b>	LF	76		\$ -
34 00 00d	<b>White Thermoplastic Solid Stripe for Crosswalk</b>	LF	65		\$ -
34 00 00e	<b>Inductive Loop Detector at Intersection</b>	EA	3		\$ -
<b>TOTAL SCHEDULE I</b>				<b>\$</b>	<b>-</b>

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
<b>SCHEDULE II - TEMPORARY WATER SERVICES</b>					
<b>31 20 00</b>	<b>Earthwork</b>				
31 20 00a	<b>Crushed Stone Backfill</b> , in Trench for Permanent Water Service Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade (Temporary Water Service Lines Paid Separately)	LF	150		\$ -
<b>33 12 13</b>	<b>Material, Labor, and Equipment to Install Water Services</b>				
	<b>Material, Labor, and Equipment to Install 3/4-in or 1-in Water Services</b>				
33 12 13a	<b>8-in x 3/4-in or 1-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	30		\$ -
33 12 13b	<b>Temporary 3/4-in or 1-in Type K Copper Tubing</b> by Open Cut	LF	4,500		\$ -
33 12 13c-1	<b>Reconnect Temporary 3/4-in or 1-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	30		\$ -
33 12 13c-2	<b>Reconnect Temporary 3/4-in or 1-in Copper Service Line to Existing Water Service Line</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	6		\$ -
33 12 13d	<b>Plug Temporary 3/4-in or 1-in Copper Service Line at Main Line Tapping Saddle</b> , After Permanent Tap is in Service, Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	30		\$ -
	<b>Material, Labor, and Equipment to Install 2-in Water Services</b>				
33 12 13a	<b>8-in x 2-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	5		\$ -
33 12 13b	<b>Temporary 2-in Type K Copper Tubing</b> by Open Cut	LF	100		\$ -
33 12 13c	<b>Reconnect Temporary 2-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	5		\$ -
33 12 13d	<b>Plug Temporary 2-in Copper Service Line at Main Line Tapping Saddle</b> , After Permanent Tap is in Service, Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	5		\$ -
<b>TOTAL SCHEDULE II</b>				<b>\$</b>	<b>-</b>

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
TOTAL SCHEDULE I				\$	-
TOTAL SCHEDULE II				\$	-
TOTAL (SCHEDULES I & II)				\$	-
<b>Notes:</b> 1. Contractor shall Bid on all Schedules.  2. The Owner may award any combination of Schedules. Contract will be awarded (if it is awarded) to the responsible and responsive Bidder submitting the lowest Bid sum in the selected combination of Schedules.  3. Some schedules may not be awarded.  4. Contractor certifies that he has reviewed the Drawings and Specifications and that all work not specifically listed in the Bid Schedule is included in the prices for various items listed in the Bid Schedule.					
Bidder:		Date:			
By:		(Signature)		Title:	
Address:					
City:		State:		Zip Code:	
Telephone:					



**BID SCHEDULE (CONTRACT 2)**  
**BATTLEFIELD PARKWAY WATER LINE REPLACEMENT - FANT DRIVE TO CEDAR LANE**  
**CITY OF FORT OGLETHORPE**  
**FORT OGLETHORPE, GEORGIA**

**SCHEDULE I - WATER LINE (FANT DRIVE TO CEDAR LANE)**

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
00 61 13	<b>Performance &amp; Payment Bonds</b> (Max 2% of Bid)	LS	1		\$ -
00 72 00	<b>General Conditions</b> , Including Project Management, Site Safety and Security, Site Utilities, Portable Toilet, Maintenance, and Supervision	LS	1		\$ -
01 11 00	<b>Mobilization</b> (Maximum 2.5% of Bid) Including Locating and Excavating (pot-holing) the Existing Utilities, Coordination with the City of Fort Oglethorpe, and Staking or marking center line for Pipe Alignment	LS	1		\$ -
01 32 38	<b>Pre-Construction Video Taping</b> of Existing Ground Conditions along the path of the Proposed Water Line Improvements	LS	1		\$ -
01 22 00b	<b>Traffic Control Devices for Traffic Control and Road Closure</b> to Meet MUTCD and GDOT Requirements and in Coordination with the City of Fort Oglethorpe	LS	1		\$ -
01 78 39	<b>GPS Survey</b> for Record Drawings	LS	1		\$ -
03 05 23	<b>Utility Line Crossings of Highways &amp; Roads</b>				
03 05 23a	Roadway Crossing for Water Lines by Open Cut Method. Complete Installation, Including Excavation and Compacted Backfill of Trench, Installation of <b>16-in Steel Casing Pipe</b> , End Seals, Topsoil, Fine Grading, Seeding, and Mulching ( <b>Furnishing and Installation of 8-in DIP Water Lines Not Included in this Item</b> )	LF	50		\$ -
03 30 00	<b>Cast-In-Place Concrete</b> , Complete in Place as Specified and/or Shown on the Drawings				
03 30 00a	<b>Cast-In-Place Concrete - 3,000 PSI Class B</b> for Thrust Blocks, Pipe Encasement, and Pipe Protection for Open Cut Trenches in Paved Areas	CY	280		\$ -
03 30 00b-1	<b>Class A (4,000 psi) 8-inch Thick Concrete for Driveway Apron and Parking Lot Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	3,860		\$ -
03 30 00b-2	<b>Class A (4,000 psi) 8-inch Thick Concrete Pavement Base for Asphalt Road Repairs per GDOT Standard 1401</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	3,200		\$ -
03 30 00c	<b>Class A (4,000 psi) 4-inch Thick Concrete for Sidewalk Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	3,800		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
03 30 00d	<b>Class A (4,000 psi) 8-inch Thick Concrete for Median Repairs</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour and Finish Rubbing, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	120		\$ -
03 30 00e	<b>Class A (4,000 psi) 4-inch Thick Concrete for Curb Cut Ramp</b> , Including Excavation, Bedding, Reinforcement Wire, Form Work, Concrete Mix, Pour Finish Rubbing, and Detectable Warning Surface, Complete In Place as Shown in Detail on the Plans. (As directed by the Engineer) (GAB Base Stone Paid Separately)	SF	1,050		\$ -
03 30 00f-1	<b>Class A (4,000 psi) 6-inch Thick Concrete for Header Curb (GDOT Standard 9032B, Type 2)</b> , Including Excavation, 2-Inch Bedding Stone, Form Work, Expansion Joints, Finish Rubbing, and Site Restoration, Complete-In-Place	LF	400		\$ -
03 30 00f-2	<b>Class A (4,000 PSI) Concrete for Curb and Gutter (GDOT Standard 9032B, Type 2)</b> , Including Form Work, Expansion Joints, Finish Rubbing, and Roadway Repair. Complete-In-Place.	LF	100		\$ -
<b>31 20 00</b>	<b>Earthwork</b>				
31 20 00a	<b>Unclassified Demolition/Excavation</b> of Existing Roadway, Curbs, Sidewalks, Brick, and Debris Required for Water Line Trench and Temporary Service Lines, Including Preservation of Existing Utilities located near Water Line Trench, Temporary Removal of Signage, Fences, etc.	LS	1		\$ -
31 20 00b-1	<b>Site Restoration Complete</b> , for Areas outside Paved Roadway or Sidewalk Areas, Including Restoration of Landscaping, Business Signs, Fences, etc.	LS	1		\$ -
31 20 00b-2	<b>Site Restoration Complete</b> , Including Temporary Removal and Re-Installation of Lamp Posts with All Associated Appurtenances As Required for Construction of New Water Line, Including Lamp Post Foundation and miscellaneous Fittings within the Foundation (As Directed by Engineer)	EA	13		\$ -
31 20 00c-1	<b>Crushed Stone Backfill</b> , in Trench for 8-in Water Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade	LF	1,670		\$ -
31 20 00c-2	<b>Crushed Stone Backfill</b> , in Trench for Permanent Water Service Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade (Temporary Water Service Lines Paid Separately)	LF	220		\$ -
31 20 00d	<b>Crushed Stone Bedding Material</b> , in Excess of that Required for Standard Bedding and Haunching, where Unsuitable Soil is Encountered or where Additional Material for Bedding is Required or as Directed by the Engineer, Including Undercut Excavation, Disposal, and Stone Placement	CY	80		\$ -
31 20 00e-1	<b>Compacted Crushed Base Stone (GAB) for Asphalt and Concrete Pavement and Repair Areas</b> , Including Stone Placement, Compaction, and Fine Grading for Roads, Parking Lots, Driveways, and Transitions to Existing Driveways	Tons	350		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
31 20 00e-2	<b>Compacted Crushed Base Stone (GAB) for Concrete Sidewalk, Curb Ramp, and Repair Areas,</b> Including Stone Placement, Compaction, and Fine Grading for Roads, Parking Lots, Driveways, and Transitions to Existing Driveways	Tons	60		\$ -
31 20 00f-1	<b>Trench Rock Excavation</b> by Drill & Blast, Rock Trenching, or Hoe-ramming Methods, Including Hauling and Proper Disposal of Spoil Materials	LF	400		\$ -
31 20 00f-2	<b>Clean Fill Dirt Backfill,</b> for Initial Backfill above Pipe in areas where Trench Rock Removal was performed (As Directed by the Engineer)	CY	160		\$ -
31 20 00g	<b>Sifted Topsoil</b> (Purchased and Imported to Project Site) as Approved by Engineer, Not Including On-site Soil	CY	180		\$ -
31 20 00h	<b>Final Grading and Cleanup</b> of areas outside Sidewalks, Driveways, Parking Lots, and Roads, Including Topsoil Placement, and Grading (Not Including Grassing and Mulch)	LF	1,140		\$ -
<b>31 25 00</b>	<b>Sedimentation and Erosion Control</b>				
31 25 00a-1	<b>Temporary Silt Fence (Sd1-NS); Type Non-Sensitive Silt Fence,</b> Including Trenching, Installation, Posts, Filter Fabric, Woven Wire Fence Backing, Tie Wire, Bracing, and Maintenance and Removal	LF	500		\$ -
31 25 00a-2	<b>Temporary Silt Fence (Sd1-S); Type Sensitive Silt Fence,</b> Including Trenching, Installation, Posts, Filter Fabric, Woven Wire Fence Backing, Tie Wire, Bracing, and Maintenance and Removal	LF	285		\$ -
31 25 00b	<b>Straw Matting for Slope or Ditch Stabilization (Ss),</b> Including Staples for Matting	SY	100		\$ -
31 25 00c	<b>Inlet Sediment Trap (Sd2),</b> For Inlet Protection Including Installation, Maintenance, and Removal	EA	4		\$ -
31 25 00d	<b>Construction Entrance (CO)</b> Including Stone and Geotextile Filter Fabric	EA	2		\$ -
31 25 00e	<b>Concrete Washout Structure (CW),</b> Including Installation, Maintenance, and Removal	EA	3		\$ -
<b>32 10 00</b>	<b>New and Replacement Paving - Including Materials</b>				
32 10 00a	<b>Heavy Duty Asphalt Pavement Replacement for Roads, Trench-Width</b> with 2" of 9.5 mm GDOT mix, Including Saw-cutting per GDOT Standard 1401	Tons	30		\$ -
32 10 00b-1	<b>Asphalt Pavement Replacement for Driveways and Parking Lots, Trench-Width</b> with 2.5" of 19 mm Binder Mix, Including Saw-cutting and Base Stone Compaction	Tons	45		\$ -
32 10 00b-2	<b>Asphalt Pavement Replacement for Driveways and Parking Lots, Trench-Width</b> with 1.5" of 9.5 mm GDOT mix, Including Saw-cutting	Tons	30		\$ -
<b>32 92 19</b>	<b>Seeding and Mulching - Including Materials</b>				
32 92 19a	<b>Temporary Mulching (Ds1)</b>	LF	1,140		\$ -
32 92 19b	<b>Temporary Seeding and Mulching (Ds2)</b>	LF	1,140		\$ -
32 92 19c	<b>Permanent Seeding And Mulch (Ds3),</b> Including Topsoil placement, Seed Fertilizer, Limestone, and Mulch	LF	1,140		\$ -
<b>33 11 00</b>	<b>High Density Polyethylene (HDPE) Sleeve (Poly-Wrap) - Including Materials</b>				
33 11 00a	<b>HDPE Poly-Wrap for 8-in Ductile Iron Pipe</b> Installed in Trench near existing Gas Lines	LF	200		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
<b>33 12 13</b>	<b>Material, Labor, and Equipment to Install Water Services</b>				
	<b>Material, Labor, and Equipment to Install 3/4-in or 1-in Water Services</b>				
33 12 13a	<b>8-in x 3/4-in or 1-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	12		\$ -
33 12 13b	<b>Permanent 3/4-in or 1-in Type K Copper Tubing</b> by Open Cut	LF	400		\$ -
33 12 13c-1	<b>Reconnect Permanent 3/4-in or 1-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	15		\$ -
33 12 13c-2	<b>Reconnect Permanent 3/4-in or 1-in Copper Service Line to Existing Water Service Line</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	4		\$ -
33 12 13d	<b>Relocate Existing Water Meter</b> , Including, Backfill, Grading, Seeding, and Straw Mulch (If required for Installation of new DIP Water Line or Temporoary Service Line)	EA	7		\$ -
	<b>Material, Labor, and Equipment to Install 2-in Water Services</b>				
33 12 13d	<b>8-in x 2-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	4		\$ -
33 12 13e	<b>Permanent 2-in Type K Copper Tubing</b> by Open Cut	LF	150		\$ -
33 12 13f	<b>Reconnect Permanent 2-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	4		\$ -
<b>33 12 19</b>	<b>Material, Labor, and Equipment to Install Hydrants</b>				
33 12 19a	<b>New Fire Hydrant Assembly Complete</b> , Including Hydrant, Anchor Coupling, 6-in Gate Valve, Thrust Restraint, and Stone Bedding (MJ Anchor Tee and Pipe Length to be Paid in Other Pay Items)	EA	4		\$ -
33 12 19b	<b>Removal of Existing Fire Hydrant Assembly</b> , Including Excavation, Removal of Existing Hydrant, Pipe, Fittings, Valve, and Appurtenances, Disposal of Soil and Debris, and Backfill	EA	4		\$ -
<b>33 40 00</b>	<b>Material, Labor, and Equipment to Replace Existing Storm Culverts</b>				
33 40 00a	<b>18-Inch Diameter Reinforced Concrete Pipe (RCP)</b> , Including Excavation, Removal of Existing Pipe, Disposal of Soil and Debris, Bedding and Backfill, Complete-in-Place	LF	80		\$ -
<b>40 05 13.53</b>	<b>Material, Labor and Equipment to Install Ductile Iron Pipe (DIP)</b>				
40 05 13.53a	<b>Removal of Existing 8-in PVC and Replacement in-place with New 8-in Ductile Iron Pipe</b> Installed in Trench, Including All Materials, Labor and Equipment	LF	1,540		\$ -
40 05 13.53b	<b>New 8-in Ductile Iron Pipe</b> Installed in Trench, Including All Materials, Labor and Equipment	LF	650		\$ -
40 05 13.53c	<b>New 8-in Ductile Iron Pipe</b> Installed in Casing, Including All Materials, Labor and Equipment	LF	50		\$ -

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
<b>40 05 13.53</b>	<b>Ductile Iron MJ Pipe Fittings</b> (Published Weights for Ductile Iron, AWWA C-153 Compact Fittings)				
	<b>Material, Labor, and Equipment to Install 8-in Fittings and Gaskets</b>				
40 05 13.53b-1	<b>8-in Miscellaneous Ductile Iron Fittings</b> Not Itemized for Payment per Each (Paid by Weight)	Lbs	1,000		\$ -
40 05 13.53b-2	<b>8-in x 8-in (Branch) MJ Tee</b>	EA	2		\$ -
40 05 13.53b-3	<b>8-in x 6-in MJ Anchor Tee</b>	EA	4		\$ -
40 05 13.53b-4	<b>8-in 90 degree MJ Bend</b>	EA	1		\$ -
40 05 13.53b-5	<b>8-in 45 degree MJ Bend</b>	EA	7		\$ -
40 05 13.53b-6	<b>8-in 22.5 degree MJ Bend</b>	EA	1		\$ -
40 05 13.53b-7	<b>8-in MJ Cap</b>	EA	2		\$ -
40 05 13.53b-8	<b>8-in MJ Sleeve</b>	EA	4		\$ -
40 05 13.53b-9	<b>8-in Anchor Coupling</b>	EA	15		\$ -
10	<b>8-in Foster Adaptor</b>	EA	15		\$ -
11	<b>8-in Mechanical Joint Restraint Devices</b>	EA	60		\$ -
40 05 13.53b-12	<b>8-in Bell or Pipe Joint Restrained Pipe Devices or Gaskets</b>	EA	100		\$ -
<b>40 05 13.53</b>	<b>Material, Labor, and Equipment for Connection to Existing Water Line</b>				
40 05 13.53c	<b>Connection to Existing 8-in PVC Water Line by Cut-In Method</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	1		\$ -
40 05 13.53d	<b>Connection to 8-in Gate Valve</b> , Including All Materials, Labor, Equipment, Supervision, and Coordination with Fort Oglethorpe	EA	5		\$ -
<b>40 05 61</b>	<b>Material, Labor, and Equipment to Install Valves</b>				
40 05 61a	<b>8-in Gate Valve Installed</b> , Including Valve Box & Cover, Concrete Suppor Block, Thrust Block, and Valve Box Extensions	EA	7		\$ -
40 05 61b	<b>8-in Gate Valve Insert Installed on Existing 8-in PVC Water Line</b> , Including Valve Box & Cover, Concrete Suppor Block, Thrust Block, and Valve Box Extensions	EA	5		\$ -
40 05 61c	<b>Removal of Existing 8-in Gate Valve</b> , Including Excavation, Removal of Existing Valve and Appurtenances, Disposal of Soil and Debris, and Backfill	EA	5		\$ -
<b>TOTAL SCHEDULE I</b>				<b>\$</b>	<b>-</b>

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
<b>SCHEDULE II - TEMPORARY WATER SERVICES</b>					
<b>31 20 00</b>	<b>Earthwork</b>				
31 20 00a	<b>Crushed Stone Backfill</b> , in Trench for Permanent Water Service Lines in Streets and Asphalt or Concrete Driveways from Top of Bedding to Finished Grade (Temporary Water Service Lines Paid Separately)	LF	480		\$ -
<b>33 12 13</b>	<b>Material, Labor, and Equipment to Install Water Services</b>				
	<b>Material, Labor, and Equipment to Install 3/4-in or 1-in Water Services</b>				
33 12 13a	<b>8-in x 3/4-in or 1-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	5		\$ -
33 12 13b	<b>Temporary 3/4-in or 1-in Type K Copper Tubing</b> by Open Cut	LF	1,130		\$ -
33 12 13c-1	<b>Reconnect Temporary 3/4-in or 1-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	12		\$ -
33 12 13c-2	<b>Reconnect Temporary 3/4-in or 1-in Copper Service Line to Existing Water Service Line</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	4		\$ -
33 12 13d	<b>Plug Temporary 3/4-in or 1-in Copper Service Line at Main Line Tapping Saddle</b> , After Permanent Tap is in Service, Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	5		\$ -
	<b>Material, Labor, and Equipment to Install 2-in Water Services</b>				
33 12 13a	<b>8-in x 2-in Double Strap Tapping Saddle</b> , Including Excavation, Tap, Corporation Stop, Complete-in-place	EA	3		\$ -
33 12 13b	<b>Temporary 2-in Type K Copper Tubing</b> by Open Cut	LF	250		\$ -
33 12 13c	<b>Reconnect Temporary 2-in Copper Service Line to Existing Water Meter</b> , Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	3		\$ -
33 12 13d	<b>Plug Temporary 2-in Copper Service Line at Main Line Tapping Saddle</b> , After Permanent Tap is in Service, Including Miscellaneous Fittings or Couplings, Backfill, Grading, Seeding, and Straw Mulch	EA	3		\$ -
<b>TOTAL SCHEDULE II</b>				<b>\$</b>	<b>-</b>

Item No.	DESCRIPTION	Unit	Est. No. of Units	Unit Price	Item Total
TOTAL SCHEDULE I				\$	-
TOTAL SCHEDULE II				\$	-
TOTAL (SCHEDULES I & II)				\$	-
<b>Notes:</b>					
1. Contractor shall Bid on all Schedules.					
2. The Owner may award any combination of Schedules. Contract will be awarded (if it is awarded) to the responsible and responsive Bidder submitting the lowest Bid sum in the selected combination of Schedules.					
3. Some schedules may not be awarded.					
4. Contractor certifies that he has reviewed the Drawings and Specifications and that all work not specifically listed in the Bid Schedule is included in the prices for various items listed in the Bid Schedule.					
Bidder:		Date:			
By:		(Signature)		Title:	
Address:					
City:		State:		Zip Code:	
Telephone:					

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
ATLANTA, GEORGIA 30334-1002



Permit No.	U-047-012002-6	
Project ID		
County	Catoosa	
District	District Six- Cartersville	
State Route No.	00000200	
Begin Milepost No.	4.71	End Milepost No. 5.55

PERMIT DATA FOR PERMIT # U-047-012002-6

APPLICATION IS HEREBY MADE TO THE GEORGIA DEPARTMENT OF TRANSPORTATION BY:

CITY OF FORT OGLETHORPE, GA - PO Box 5509 Fort Oglethorpe GA, 30742

(UTILITY - NAME AND ADDRESS)

FOR PERMISSION TO CONSTRUCT, OPERATE, AND MAINTAIN THE FOLLOWING DESCRIBED UTILITY FACILITY WITHIN OR FROM THE RIGHT-OF-WAY OF STATE HIGHWAY NO. 00000200 COUNTY ROAD NO. IN Catoosa COUNTY.

DESCRIPTION: Install 8-in DIP waterline parallel to SR-2 between US-27 and Fant Dr. Approximately 4,600LF of 8-in DIP will be within right-of-way or have construction extents inside of right-of-way. Project also includes installation of 110LF in existing 16-in Steel Casing that was installed under SR-2 by a previous project. Crossings of intersecting road Cleve St and Fant Dr are open cut parallel to SR-2 and include approximately 1000SF pavement cuts. Private driveways are open cut parallel to SR-2.

LOCATION: Mile Point(4.71) TO Mile Point(5.55)

THE UTILITY SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION. IT IS ANTICIPATED THAT THE TEMPORARY TRAFFIC CONTROL UTILIZED FOR THIS INSTALLATION WILL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:

<input checked="" type="checkbox"/> MUTCD 6-TYPICAL APPLICATION PLAN	<input type="checkbox"/> DETAILED TRAFFIC CONTROL PLAN (ATTACHED)	<input type="checkbox"/> COMBINATION TYPICAL APPLICATION & DETAIL TRAFFIC CONTROL PLAN (ATTACHED)
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THE UTILITY FACILITIES COVERED HEREBY SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS ATTACHED HERETO AND MADE A PART HEREOF. UTILITY AGREES TO COMPLY WITH AND BE BOUND BY THE DEPARTMENT'S UTILITY ACCOMMODATION POLICY AND STANDARDS, CURRENT EDITION, AVAILABLE ON GDOT UTILITIES WEBSITE, MADE A PART HEREOF BY REFERENCE, AND ALL GENERAL PROVISIONS AND SPECIAL PROVISIONS ATTACHED HERETO, DURING THE INSTALLATION, OPERATION AND MAINTENANCE OF SAID UTILITY FACILITIES WITHIN OR FROM THE RIGHT-OF-WAY. PERMIT REQUESTED TO THIS 24 DAY OF July, 2025

Courtney Johnson  
WITNESS TO SIGNATURE

100460  
(MEMBER CODE)

Philip Schofield  
(SIGNATURE - Electronic)

770-548-9997  
(TITLE & PHONE NUMBER)

PERMISSION IS GRANTED FOR THE ABOVE DESCRIBED UTILITY FACILITY ENCROACHMENT IN ACCORDANCE WITH THE PLANS AND PROVISIONS HEREOF.

THIS PERMIT IS TO BE STRICTLY CONSTRUED AND NO WORK OTHER THAN THAT SPECIFICALLY DESCRIBED ABOVE IS HEREBY AUTHORIZED.

PERMIT GRANTED THIS 4 DAY OF August, 2025 .

DEPARTMENT OF TRANSPORTATION

BY: Jennifer L. Deems  
(DISTRICT ENGINEER)

PERMIT NO. U-047-012002-6	DISTRICT NO. 6	COUNTY Catoosa
STATE ROUTE NO. 00000200	CO. RD. NO.	
PROJECT ID.		



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**



DISTRICT NO. 6 APPROVAL DATE **20-Aug-25**  
PERMIT NO. **U-047-012002-6** COUNTY **Catoosa**

PERMITTEE **CITY OF FORT OGLETHORPE, GA**  
CONTRACTOR  
STATE INSPECTOR **Teddy Stanfield**  
TELEPHONE **770-533-8320**

## INSPECTOR'S LOG

- ☐ AERIAL
- ☒ UNDERGROUND
- ☐ OTHERS

[illegible]

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
ATLANTA, GEORGIA 30334-1002**



**GENERAL PROVISIONS - U-047-012002-6**

IT IS EXPRESSLY STIPULATED THAT THIS PERMIT IS A LICENSE FOR PERMISSIVE USE ONLY, AND THE PLACING OF UTILITY FACILITIES UPON PUBLIC PROPERTY, PURSUANT TO THIS PERMIT, SHALL NOT OPERATE TO CREATE OR VEST ANY PROPERTY RIGHT IN THE HOLDER.

WHENEVER NECESSARY FOR THE CONSTRUCTION, REPAIR, IMPROVEMENT, MAINTENANCE, SAFE AND EFFECTIVE OPERATION, ALTERATION OR RELOCATION OF ALL OR ANY PORTION OF THE HIGHWAY, AS DETERMINED BY THE DEPARTMENT, ANY OR ALL OF SAID FACILITIES AND APPURTENANCES AUTHORIZED HEREUNDER SHALL BE IMMEDIATELY REMOVED FROM THE RIGHT-OF-WAY, OR RESET OR RELOCATED THEREON, AS REQUIRED BY THE CHIEF ENGINEER, AND AT THE SOLE EXPENSE OF THE UTILITY, UNLESS REIMBURSEMENT IS AUTHORIZED BY SEPARATE AGREEMENT. SHOULD THE UTILITY FAIL TO REMOVE OR RELOCATE ITS FACILITIES UPON DUE NOTICE FROM THE DEPARTMENT, THE UTILITY SHALL BE LIABLE FOR ANY EXTRAORDINARY COSTS OR DAMAGES INCURRED BY THE DEPARTMENT AS A RESULT THEREOF.

IF THE DEPARTMENT UNDERTAKES TO IMPROVE THIS HIGHWAY, IT SHALL BE THE RESPONSIBILITY OF THE UTILITY TO PLAN, WITH THE DEPARTMENT AND ITS CONTRACTOR, A SCHEDULE WHICH WILL CLEARLY SETS FORTH AT WHICH STAGE OF OPERATIONS THE UTILITY WILL BE REQUIRED TO PERFORM ANY ADJUSTMENT TO ITS FACILITIES NECESSARY TO ACCOMMODATE THE HIGHWAY IMPROVEMENTS.

DURING THE INITIAL INSTALLATION OR CONSTRUCTION OF FACILITIES AUTHORIZED BY THIS PERMIT, OR DURING ANY FUTURE REPAIR, REMOVAL OR RELOCATION THEREOF OR ANY MISCELLANEOUS OPERATIONS, THE UTILITY SHALL, AT ALL TIMES, MAINTAIN FLAGMEN, SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER SAFETY DEVICES IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND, AS MAY BE NECESSARY, TO PROPERLY PROTECT TRAFFIC UPON THE HIGHWAY AND TO WARN AND SAFEGUARD THE PUBLIC AGAINST INJURY OR DAMAGE.

IT IS EXPRESSLY PROVIDED THAT, WITH RESPECT TO ANY LIMITED ACCESS HIGHWAY, THE UTILITY SHALL NOT HAVE OR GAIN DIRECT ACCESS, EITHER INGRESS OR EGRESS, FROM THE MAIN TRAVELED WAY OF SAID HIGHWAY OR ITS ON OR OFF RAMPS TO ANY FACILITIES AUTHORIZED BY THE PERMIT EXCEPT UPON SPECIFIC APPROVAL BY THE DEPARTMENT.

IT IS THE UTILITY'S RESPONSIBILITY TO VERIFY THE LIMITS OF RIGHT-OF-WAY FOR LOCATION OF THE UTILITY FACILITIES AUTHORIZED HEREBY.

NO INHERENT OR RETAINED RIGHT OR PRIVILEGE OF ANY ABUTTING PROPERTY OWNER IS AFFECTED BY THIS PERMIT NOR IS THE DEPARTMENT RESPONSIBLE FOR ANY CLAIM WHICH MAY DEVELOP BETWEEN THE UTILITY AND ANY PROPERTY OWNER CONCERNING USE OF THE RIGHT OF WAY. THE UTILITY IS RESPONSIBLE FOR MAINTAINING REASONABLE ACCESS TO PRIVATE DRIVEWAYS DURING INSTALLATION OF ITS FACILITIES AND FOR RESTORATION OF DRIVEWAYS TO THE PROPERTY OWNER'S SATISFACTION.

APPROVAL OF THIS PERMIT DOES NOT CONSTITUTE APPROVAL OF DESIGN OR CONSTRUCTION DETAILS FOR THE PROPOSED UTILITY FACILITIES. THE UTILITY IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE GOVERNMENTAL CODES AND REGULATIONS.

THE UTILITY SHALL GIVE THE DEPARTMENT A MINIMUM OF 24 HOURS NOTICE PRIOR TO BEGINNING ANY WORK UNDER THIS PERMIT.

THIS PERMIT SHALL BE VOID UNLESS WORK HEREUNDER IS BEGUN WITHIN TWELVE (12) MONTHS OF THE DATE OF ITS APPROVAL.

THE PROVISIONS OF THIS PERMIT ARE REGULATORY AND NOT CONTRACTUAL. NO INTEREST OR RIGHT OF A UTILITY GRANTED BY THIS PERMIT MAY BE TRANSFERRED TO ANOTHER EXCEPT BY WRITTEN CONSENT OF THE DEPARTMENT. THIS PERMIT MAY BE REVOKED AT THE PLEASURE OF THE DEPARTMENT UPON THIRTY (30) DAYS WRITTEN NOTICE TO THE UTILITY.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
ATLANTA, GEORGIA 30334-1002



Permit No.	U-047-012002-6	
Project ID		
County	Catoosa	
District	District Six- Cartersville	
State Route No.	00000200	
Begin Milepost No.	4.71	End Milepost No. 5.55

PERMIT DATA FOR PERMIT # U-047-012002-6

Review Applicant/Main Information Details

Utility Permit Type:	Regular Encroachment	Permit Category:	Potable Water (Distribution, Transmission)
Entity Type:	City	Utility Entity Name:	CITY OF FORT OGLETHORPE, GA
		Member Code:	100460

Utility Entity Rep

Name:	Philip Schofield	Company:	Dade County Water and Sewer Authority	Email:	pschofield@ctiengr.com	Phone Number:	770-548-9997
-------	------------------	----------	---------------------------------------	--------	------------------------	---------------	--------------

Utility Entity POC

Name:	Courtney Johnson	Email:	cjohnson@fortoglethorpega.gov	Phone Number:	706-866-0962
-------	------------------	--------	-------------------------------	---------------	--------------

Review Permit Location Details

County:	Catoosa	City:	City	District:	District Six- Cartersville	US Route:	
State Route:	00000200	Beginning Mile Point:	4.71	End Mile Point:	5.55		
Beginning Lat:	34.955269	Beginning Long:	-85.258575	End Lat:	34.952311	End Long:	-85.244213
Beginning User Defined Lat:		Beginning User Defined Long:					
End User Defined Lat:		End User Defined Long:					

Near By GDOT Active Projects

Project ID	Number	Contractor Name	Status	Let Date	Description
0019453			Construction Work Program		CS 550/THOMAS ROAD & CS 647/FANT DRIVE IN FORT OGLETHORPE

Review Permit Data Details

Standard Information

**Work Description:** Install 8-in DIP waterline parallel to SR-2 between US-27 and Fant Dr. Approximately 4,600LF of 8-in DIP will be within right-of-way or have construction extents inside of right-of-way. Project also includes installation of 110LF in existing 16-in Steel Casing that was installed under SR-2 by a previous project. Crossings of intersecting road Cleve St and Fant Dr are open cut parallel to SR-2 and include approximately 1000SF pavement cuts. Private driveways are open cut parallel to SR-2.

Facility Type:	Distribution	Facility Placement:	Longitudinal and Crossing	Total Installation Length:	4800
Service Tap Type:	Shortside				

Underground Section

Pipe & Underground Properties

Pipe Size(inches)	Pipe Material	Casing Material	Casing Diameter	Underground Construction Type	Pressure In Psi
8	DIP	None	0	Open Cut	101.5

Manhole Quantity:	0	Valves Quantity:	42	Vault Quantity:	0	Test Holes Quantity:	42	Minimum depth:	3	Pavement Cutting:	Yes
Type Of Pavement Cut:	Repair Window	Pavement Cut Dimensions:	1000	Number of Lanes Affected:	1						

Link Permit

Associate Another permit: No

Traffic Control Type

Traffic Control Type:	MUTCD Part6 - Typical Application Plan	Is Blasting Involved?:	No
Does Application impact a bridge,wall,culvert or include construction of a tunnel?:	No		



1122 Riverfront Pkwy  
Chattanooga, TN 37402  
423-267-7613  
www.ctiengr.com

July 24, 2025

Georgia Department of Transportation, District 6  
30 Great Valley Parkway  
White, GA 30184

Subject: Letter of Exception for Pavement Cutting  
Battlefield Parkway Waterline Replacement

To Whom it may concern:

Consolidated Technologies, Inc., dba CTI Engineers, Inc. (CTI) is providing permitting services on behalf of the City of Fort Oglethorpe for the Battlefield Parkway Waterline Replacement along SR-2 from the US-27 intersection to Fant Drive. This letter is to request exceptions for open-cut installations for paved road crossings. Crossings where the new DIP center line is located within the right-of-way are located at Van Cleve Street and Fant Drive. At the remaining crossings, only the extents of either the trench or construction area may be located within the right-of-way in which the new DIP center line will be located outside right-of-way in existing utility easements. Such remaining crossings include Cross Street, Alamar Street, and driveway aprons.

For the Van Cleve Street crossing, there is an existing branch line which connects to the main line near the center of the roadway. This existing line will remain active and require reconnection. Due to the location of this branch line, the reconnection can only be made by open-cut, in which the main line crossing must be open-cut. The reconnection will be completed via wet tap to limit the amount of time needed to put the connection back in service.

For the Fant Drive crossing, open-cut method was selected to prevent the need for easement acquisition on each side of the crossing. The size of the equipment pits for boring machines would require the new DIP center line to be shifted away from the right-of-way due to other existing utilities and above grade site features such as lamp poles.

Sincerely,

Wil Jackson, P.E.  
Project Engineer  
CTI Engineers, Inc.

# GDOT Utility Permit: GUPS - Area Permit Inspector (API) Utility Permit Checklist

Revised 2018-06-25

## INSTRUCTIONS:

The Utility Owner will be required to provide the following information to the API in order for the API to activate the permit. The information must be as current as possible. The Utility Owner will be required to notify the API of any changes/revisions/additions to this form at least 72-hrs prior to beginning work. All text box fields are required, unless otherwise noted. All radio button choices require selecting either "Yes" or "No". The Utility Owner must contact the API to discuss any "No" answers.

Permit No.:

470120026

County Name:

Catoosa

State Route No.:

2

GDOT PI No., if applicable:

Communication Permit No. : Electric facility owners to provide only if to be paired with an Electrical Permit.

**Emergency Permit No., if applicable:** Obtained from the District Utilities Office for Emergency work only: Apply for a regular encroachment permit within 5 business days after the onset of the emergency. The emergency permit number must be provided to pair the emergency permit to the encroachment permit.

Utility Owner /Company Name:

City of Fort Oglethorpe

**Utility Owner's Emergency Response Information:** Utility Owner must provide a valid emergency contact full name and valid 24-hr phone number.

Courtney Johnson, 423-402-5372

**Utility Representative Information:** Must include Rep's full name, job title, a valid 24-hr phone number, and a valid e-mail address.

Courtney Johnson, Public Utilities Director  
423-402-5372  
cjohnson@fortoglethorpega.gov

Estimated work start date: mm/dd/yyyy

September 15, 2025

Estimated work completion date: mm/dd/yyyy

January 16, 2026

Will the Utility Owner be the Prime Contractor?:

☒ Yes ☐ No

**If NOT, who will be the Prime Contractor?:** Must include Prime's company name, the Contractor's full name, a valid 24-hr phone number, and a valid e-mail address.

**Will the Utility Owner furnish complete construction supervision?:**

☐ Yes ☒ No

**Who will supervise the construction?:** Must include a company name (if other than the Utility Owner), the Field Supervisor's full name, a valid 24-hr phone number, and a valid e-mail address.

Mike Bell, CTI Engineers, Inc.  
423-596-5270  
mbell@ctiengr.com

**Do you understand the permit completely?:**

☒ Yes ☐ No

**Do you understand that the permit and plans are to be on location (on the work site) when any work is done?:** Failure to do so will result in the issuance of a Stop Work Order.

☒ Yes ☐ No

**Do you understand the Traffic Control (TC) requirements?:** Improper TC will result in the issuance of a Stop Work Order.

☒ Yes ☐ No

**Provide the Worksite Traffic Control Supervisor's (WTCS) full name, 24-hr phone number and e-mail address:** (Per 3.7.D of the UAM.)

(Same as Construction Supervisor)

**Will you be milling or excavating within 1000 feet of any existing traffic signal or flashing beacon? If yes notify GDOT Traffic Operations Office at least 24 hours prior to starting any work.**

☒ Yes ☐ No

**Are there any holiday restrictions on TC?:** If "Yes", call the API at least 24-hrs prior to beginning work to discuss.

☐ Yes ☒ No

**Do you understand that blocking of travel lanes must be approved by the API and or the Area Engineer?:**

Contact the API 3 days (72 hrs) prior to any planned lane closures to provide information required for a Traffic Interruption Report (TIR).

☒ Yes ☐ No

**Do you understand that any flagging of traffic will be done by certified flaggers?:**

☒ Yes ☐ No

**Do you understand that a meeting will be necessary between yourself, the contractor, and the API?:**

☒ Yes ☐ No

**Do you understand that you are to notify the API 24-hrs before any work is to begin?:**

☒ Yes ☐ No

**Do you understand that an orange permit sign is to be on-site at all times and maintained until work is complete?:** Failure to do so may result in the issuance of a Stop Work Order.

☒ Yes    ☐ No

**Do you understand that the facility will not be placed in service until all construction items are complete, unless approved by the appropriate District Office?:**

☒ Yes    ☐ No

**Do you understand that the Area Permit Inspector will give plan interpretation when requested and will make spot checks on the construction as work progresses; but, it will be the Utility's responsibility to see that the work conforms to the provisions outlined in the permit and to the approved plan?:** Work not conforming to the approved permit documents will result in the issuance of a Stop Work Order.

☒ Yes    ☐ No

**Do you understand that you must comply with the Georgia Department of Natural Resources Division Sediment Control Rules and Regulations, Chapter 391-3-7 and OCGA 12-7-1?:**

☒ Yes    ☐ No

**Are there any Special Provisions that need to be discussed?:** Contact the API to discuss any Special Provisions.

☐ Yes    ☒ No

**Do you understand the need for safety equipment to be worn at all times?:**

☒ Yes    ☐ No

**Do you accept that no open pits are allowed in the ROW overnight?:**

☒ Yes    ☐ No

---

**Individual providing the above information:**

Provide individual's full name, Company Name, a valid phone number and a valid e-mail address.

Russell Wilson Jackson, P.E.  
CTI Engineers, Inc.  
770-548-9997  
wjackson@ctiengr.com

**Date:**

July 24, 2025

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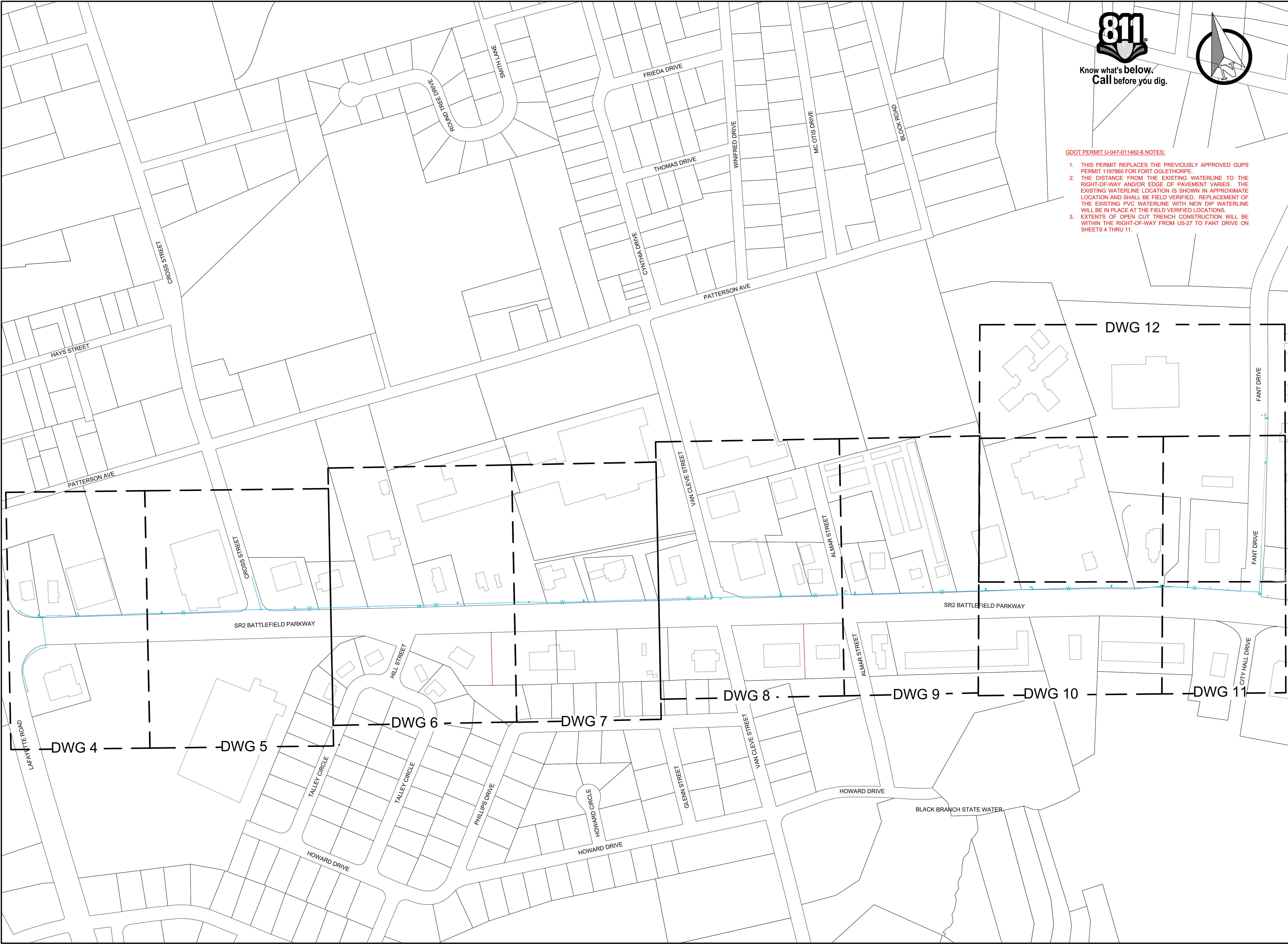
**Printing Instructions:**

Please email the completed form to your Area Permit Inspector.

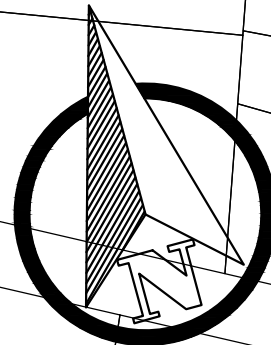
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End of Form





Know what's below.  
Call before you dig.



**GDOT PERMIT U-047-011462-6 NOTES:**

- 1. THIS PERMIT REPLACES THE PREVIOUSLY APPROVED GUPS PERMIT 1197860 FOR FORT OGLETHORPE.
- 2. THE DISTANCE FROM THE EXISTING WATERLINE TO THE RIGHT-OF-WAY AND/OR EDGE OF PAVEMENT VARIES. THE EXISTING WATERLINE LOCATION IS SHOWN IN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED. REPLACEMENT OF THE EXISTING PVC WATERLINE WITH NEW DIP WATERLINE WILL BE IN PLACE AT THE FIELD VERIFIED LOCATIONS.
- 3. EXTENTS OF OPEN CUT TRENCH CONSTRUCTION WILL BE WITHIN THE RIGHT-OF-WAY FROM US-27 TO FANT DRIVE ON SHEETS 4 THRU 11.

DESIGN

PRS

NO.

1

DATE

11/24

BY

ZWR

APP'D

PRS

REVISIONS

DESCRIPTIONS

UPDATED BACKGROUND

DESIGN

PRS

DRAWN

PLW

CHECKED

MAB

APPROVED

PRS

FORT OGLETHORPE, GEORGIA

BATTLEFIELD PARKWAY

WATER LINE REPLACEMENT

GENERAL PLAN

REGISTERED

NO. 030578

PROFESSIONAL

ENGINEER

PATRICK R. SCHOFIELD

GSWCC 934

JOB NO.

G19015-04

ISSUE DATE

05/04/2020

SCALE

AS NOTED

DRAWING NO.

3.1

ENGINEERS, INC.

100 HANCOCK PARKWAY

CHATTANOOGA, TN 37402

423-287-7813





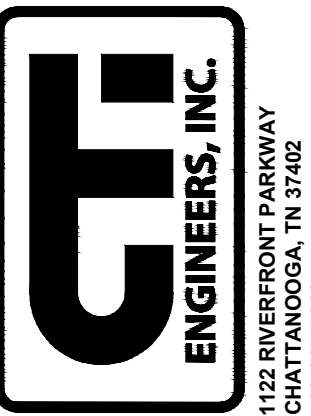
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NO.	REVISIONS		
	DESCRIPTIONS	DATE	BY
1	REVISED BORE	10/20	MAB
3	GOOD PERMIT NOTES	07/25	RWJ

DESIGN	PRR	DRAWN	PLW	CHECKED	MAB	APPROVED	PRR
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**FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT**

PROPOSED PLAN DRAWING 1 OF 9



SWCC 934

JOB NO.

ISSUE DATE

SCALE

DRAWING NO.

4.3





Know what's **below**.  
**Call** before you dig.

ADVANCED  
AUTO PARTS

ADVANCE AUTO PARTS  
C/O BLASH FL LLC  
0003B00100B  
65 BATTLEFIELD PARKWAY

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	NO.	DESCRIPTIONS	DATE	BY	APP'D
DRAWN	3		07/25	RWJ	PRS
PLW		COOT PERMIT NOTES			
CHECKED					
MAB					
APPROVED					

**FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT**

PROPOSED PLAN DRAWING 2 OF 9



GSWCC 934

JOB NO.

G19015-04

ISSUE DATE  
5 / 04 / 2020

SCALE

AS NOTED

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5.3

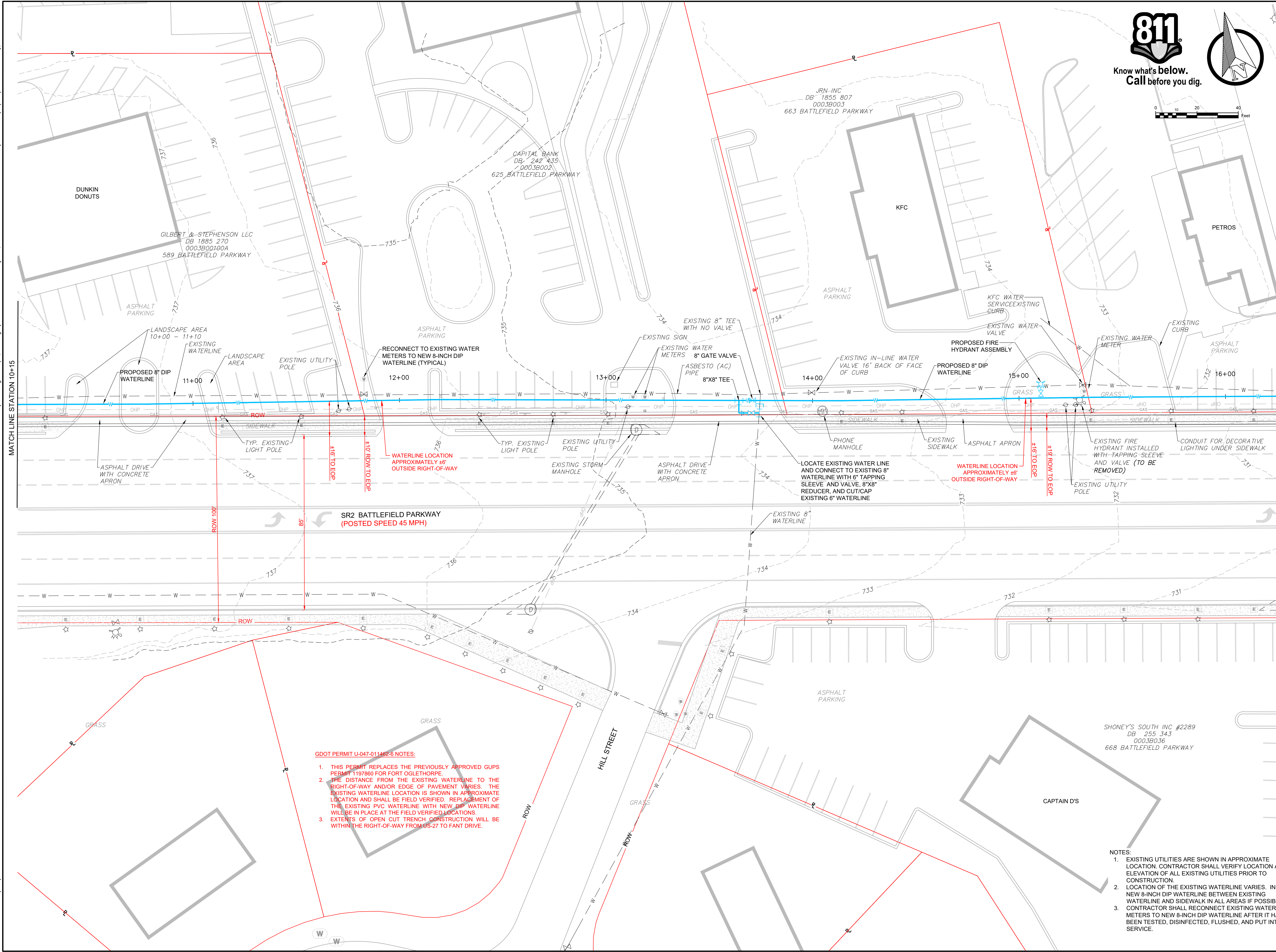
- GDOT PERMIT U-047-011462-6 NOTES:

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2. THE DISTANCE FROM THE EXISTING WATERLINE TO THE RIGHT-OF-WAY AND/OR EDGE OF PAVEMENT VARIES. THE EXISTING WATERLINE LOCATION IS SHOWN IN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED. REPLACEMENT OF THE EXISTING PVC WATERLINE WITH NEW DIP WATERLINE WILL BE IN PLACE AT THE FIELD VERIFIED LOCATIONS.
3. EXTENTS OF OPEN CUT TRENCH CONSTRUCTION WILL BE WITHIN THE RIGHT-OF-WAY FROM US-275 TO FANT DRIVE.

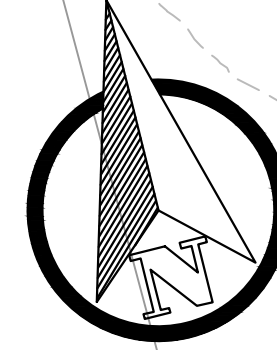
NOTES:

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. LOCATION OF THE EXISTING WATERLINE VARIES. INSTALL NEW 8-INCH DIP WATERLINE BETWEEN EXISTING WATERLINE AND SIDEWALK IN ALL AREAS IF POSSIBLE.
3. CONTRACTOR SHALL RECONNECT EXISTING WATER METERS TO NEW 8-INCH DIP WATERLINE AFTER IT HAS BEEN TESTED, DISINFECTED, FLUSHED, AND PUT INTO SERVICE.





Know what's below.  
Call before you dig.



0 10 20 40 Feet

**GDOT PERMIT U-047-011462-6 NOTES:**

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- 3.

MATCH LINE STATION 16+25

MATCH LINE STATION 10+15

**FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT**

PROPOSED PLAN DRAWING 3 OF 9



GSWCC 934

JOB NO.  
G19015-04

ISSUE DATE  
05/04/2020

SCALE  
AS NOTED

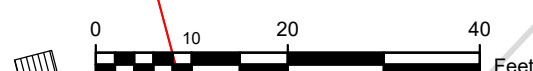
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NO.	DESCRIPTIONS	DATE	BY
1	UPDATED BACKGROUND	11/24	ZWP
3	GDOT PERMIT NOTES	07/25	RWJ

PR	SR
PL	W
CH	MA
AP	PR





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NO.	DESCRIPTIONS	DATE	BY	APP'D
1	UPDATED BACKGROUND	11/24	ZWR	PRS
3	GDOT PERMIT NOTES	07/25	RWJ	PRS

DESIGN	PRS
DRAWN	PLW
CHECKED	MAB
APPROVED	

**FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT**

PROPOSED PLAN DRAWING 4 OF 9



GSWCC 934

JOB NO.

G19015-04

ISSUE DATE  
07/02/2000

03/04/202

SCALE  
AS NOTED

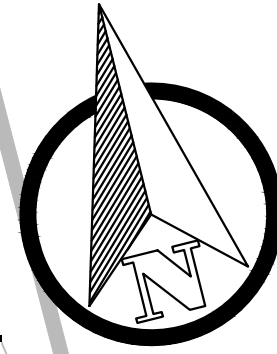
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RECORDING, OR BY ANY INFORMATION STORAGE AND  
RETRIEVAL SYSTEM, WITHOUT THE PRIOR WRITTEN  
CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR  
CONSEQUENCES RELATED TO UNAUTHORIZED USE OR  
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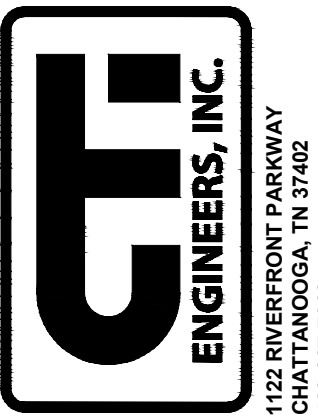
REVISIONS				
NO.	DESCRIPTIONS	DATE	BY	APP'D PRS
3	GDOT PERMIT NOTES	07/25	RWJ	

DESIGN	PRS	DRAWN	PLW	CHECKED	MAB	APPROVED	DDC
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FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT

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PROPOSED PLAN DRAWING 6 OF 9



GSWCC 934

JOB NO.

619013-04

05/04/2020

SCALE

AS NOTED

DRAWING NO.

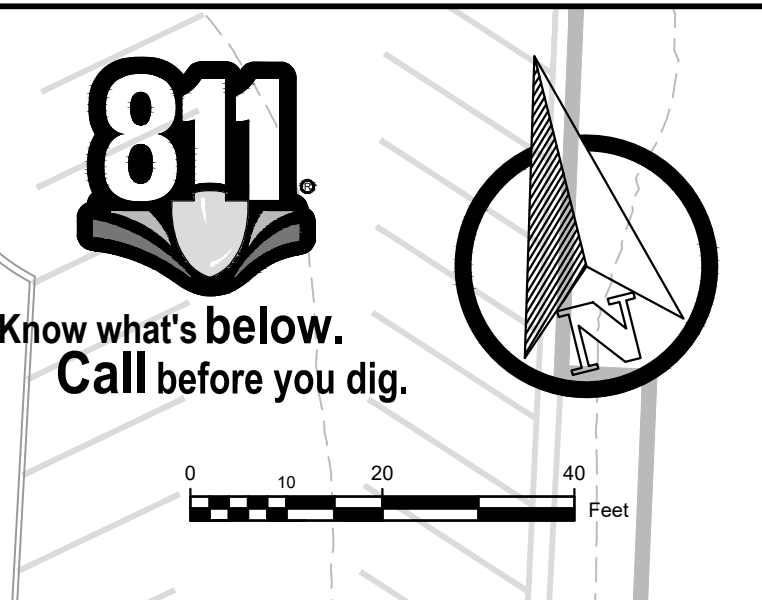
- GDOT PERMIT U-047-011462-0 NOTES:
1. THIS PERMIT REPLACES THE PREVIOUSLY APPROVED GUPS PERMIT 1917860 FOR FORT OGLETHORPE.
  2. THE DISTANCE FROM THE EXISTING WATERLINE TO THE RIGHT-OF-WAY AND/OR EDGE OF PAVEMENT VARIES. THE EXISTING WATERLINE LOCATION IS SHOWN IN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED. REPLACEMENT OF THE EXISTING PVC WATERLINE WITH NEW DIP WATERLINE WILL BE IN PLACE AT THE FIELD VERIFIED LOCATIONS.
  3. EXTENTS OF OPEN CUT TRENCH CONSTRUCTION WILL BE WITHIN THE RIGHT-OF-WAY FROM US-27 TO FANT DRIVE.

NOTES:

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. LOCATION OF THE EXISTING WATERLINE VARIES. INSTALL NEW 8-INCH DIP WATERLINE BETWEEN EXISTING WATERLINE AND SIDEWALK IN ALL AREAS IF POSSIBLE.
3. CONTRACTOR SHALL RECONNECT EXISTING WATER METERS TO NEW 8-INCH DIP WATERLINE AFTER IT HAS BEEN TESTED, DISINFECTED, FLUSHED, AND PUT INTO SERVICE.

SHOPPING AND  
BUSINESS  
CENTER



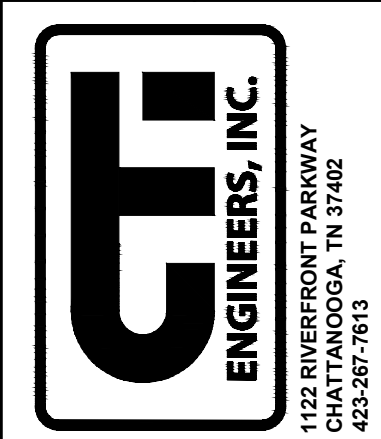


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DESIGN		REVISIONS			
PR\$	NO.	DESCRIPTIONS	DATE	BY	APP'D
DRAWN	1	UPDATED BACKGROUND	11/24	ZMR	PR\$
PLW	3	GDOT PERMIT NOTES	07/25	RWJ	PR\$
		CHECKED			
MAB					
APPROVED					
PR\$					

FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT

PROPOSED PLAN DRAWING 7 OF 9



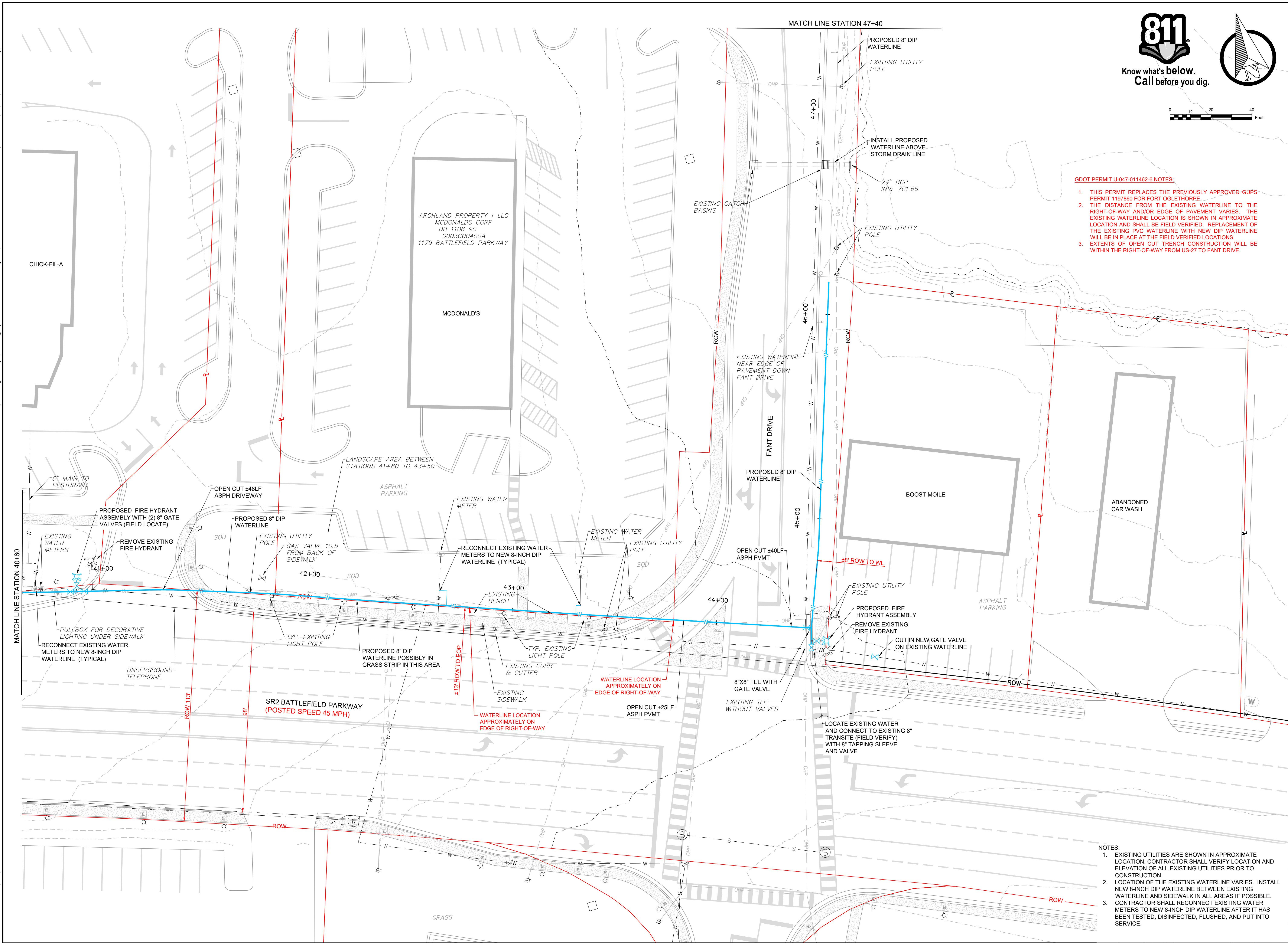
GSWCC 934
JOB NO. G19015-04
ISSUE DATE 05/04/2020
SCALE AS NOTED
DRAWING NO. 10.3

- GDOT PERMIT U-047-011462-6 NOTES:
1. THIS PERMIT REPLACES THE PREVIOUSLY APPROVED GUPS PERMIT 1197860 FOR FORT OGLETHORPE.
  2. THE DISTANCE FROM THE EXISTING WATERLINE TO THE RIGHT-OF-WAY AND/OR EDGE OF PAVEMENT VARIES. THE EXISTING WATERLINE LOCATION IS SHOWN IN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED. REPLACEMENT OF THE EXISTING P/C WATERLINE WITH NEW DIP WATERLINE WILL BE IN PLACE AT THE FIELD VERIFIED LOCATIONS.
  3. EXTENTS OF OPEN CUT TRENCH CONSTRUCTION WILL BE WITHIN THE RIGHT-OF-WAY FROM US-27 TO FANT DRIVE.

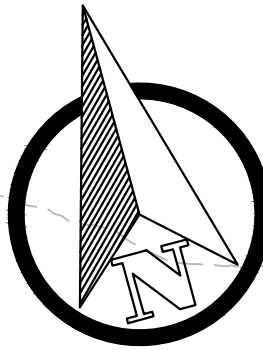
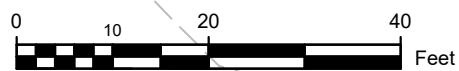
NOTES:

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. LOCATION OF THE EXISTING WATERLINE VARIES. INSTALL NEW 8-INCH DIP WATERLINE BETWEEN EXISTING WATERLINE AND SIDEWALK IN ALL AREAS IF POSSIBLE.
3. CONTRACTOR SHALL RECONNECT EXISTING WATER METERS TO NEW 8-INCH DIP WATERLINE AFTER IT HAS BEEN TESTED, DISINFECTED, FLUSHED, AND PUT INTO SERVICE.





Know what's below.  
Call before you dig.



**GDOT PERMIT U-047-011462-6 NOTES:**

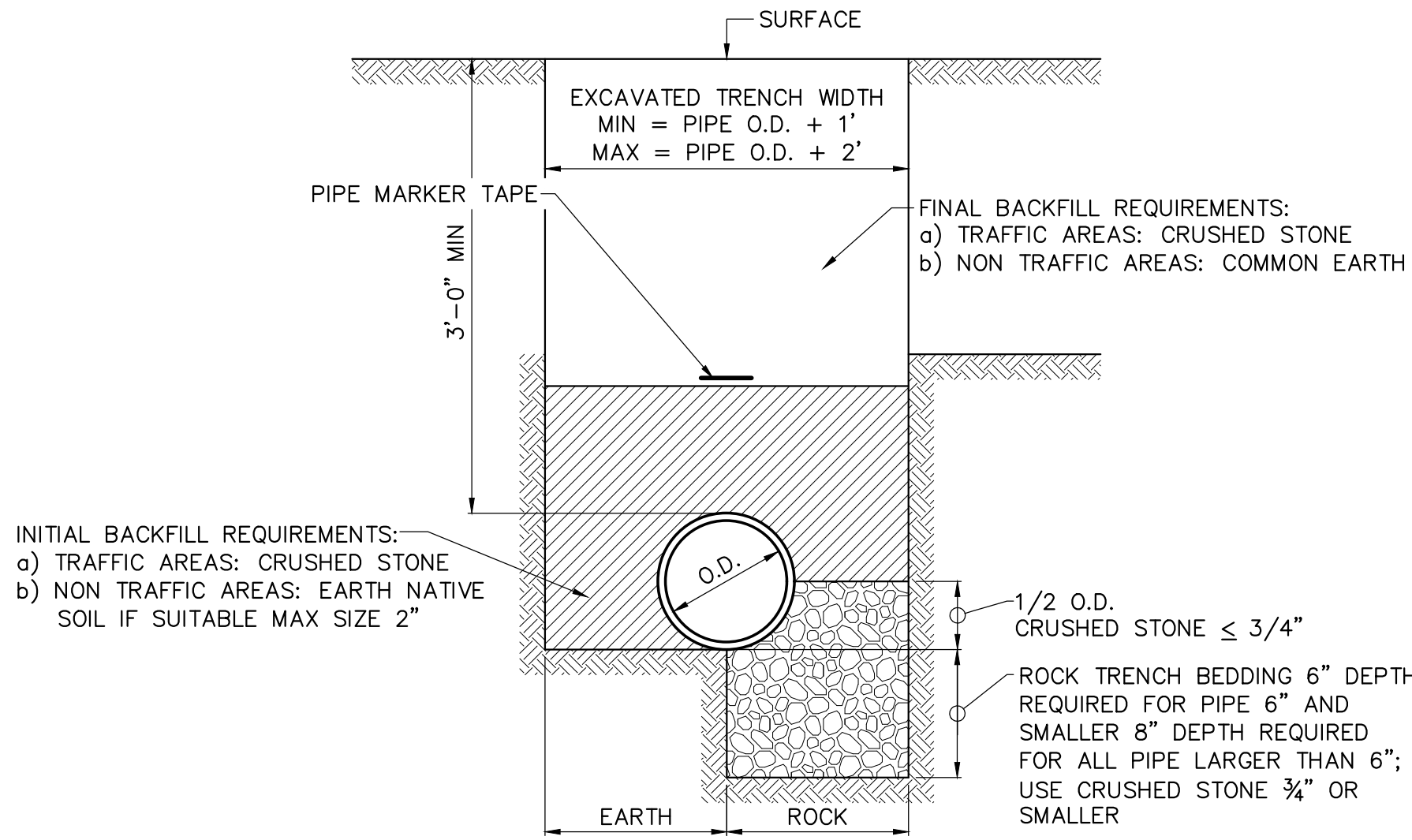
1. THIS PERMIT REPLACES THE PREVIOUSLY APPROVED GUPS PERMIT 1197860 FOR FORT OGLETHORPE.
2. THE DISTANCE FROM THE EXISTING WATERLINE TO THE RIGHT-OF-WAY AND/OR EDGE OF PAVEMENT VARIES. THE EXISTING WATERLINE LOCATION IS SHOWN IN APPROXIMATE LOCATION AND SHALL BE FIELD VERIFIED. REPLACEMENT OF THE EXISTING PVC WATERLINE WITH NEW DIP WATERLINE WILL BE IN PLACE AT THE FIELD VERIFIED LOCATIONS.
3. EXTENTS OF OPEN CUT TRENCH CONSTRUCTION WILL BE WITHIN THE RIGHT-OF-WAY FROM US-27 TO FANT DRIVE.

**NOTES:**

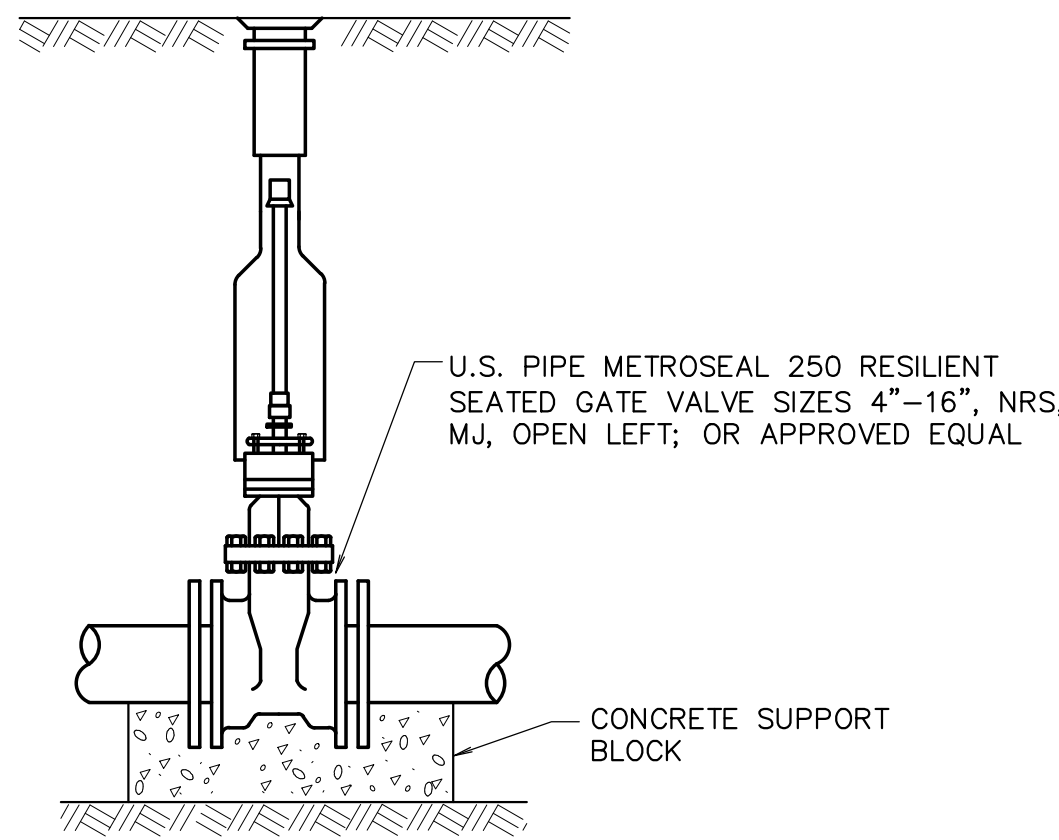
1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. LOCATION OF THE EXISTING WATERLINE VARIES. INSTALL NEW 8-INCH DIP WATERLINE BETWEEN EXISTING WATERLINE AND SIDEWALK IN ALL AREAS IF POSSIBLE. CONTRACTOR SHALL RECONNECT EXISTING WATER METERS TO NEW 8-INCH DIP WATERLINE AFTER IT HAS BEEN TESTED, DISINFECTED, FLUSHED, AND PUT INTO SERVICE.
- 3.

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DESIGN			
NO.	DESCRIPTIONS	DATE	BY
1	UPDATED FOR PHASE II	11/24	ZWR
3	GDOT PERMIT NOTES	07/25	RWJ
REVISIONS			
NO.	DESCRIPTIONS	DATE	BY
1	UPDATED FOR PHASE II	11/24	ZWR
3	GDOT PERMIT NOTES	07/25	RWJ
DESIGN			
PR	DR	CHK	APP
PR	PLW	MAB	PR
FORT OGLETHORPE, GEORGIA BATTLEFIELD PARKWAY WATER LINE REPLACEMENT			
PROPOSED PLAN DRAWING 8 OF 9			
REGISTERED PROFESSIONAL ENGINEER PHILIP R. SCHOFIELD NO. 030578 GSWCC 934			
JOB NO. G19015-04			
ISSUE DATE 05/04/2020			
SCALE AS NOTED			
DRAWING NO. 11.3			

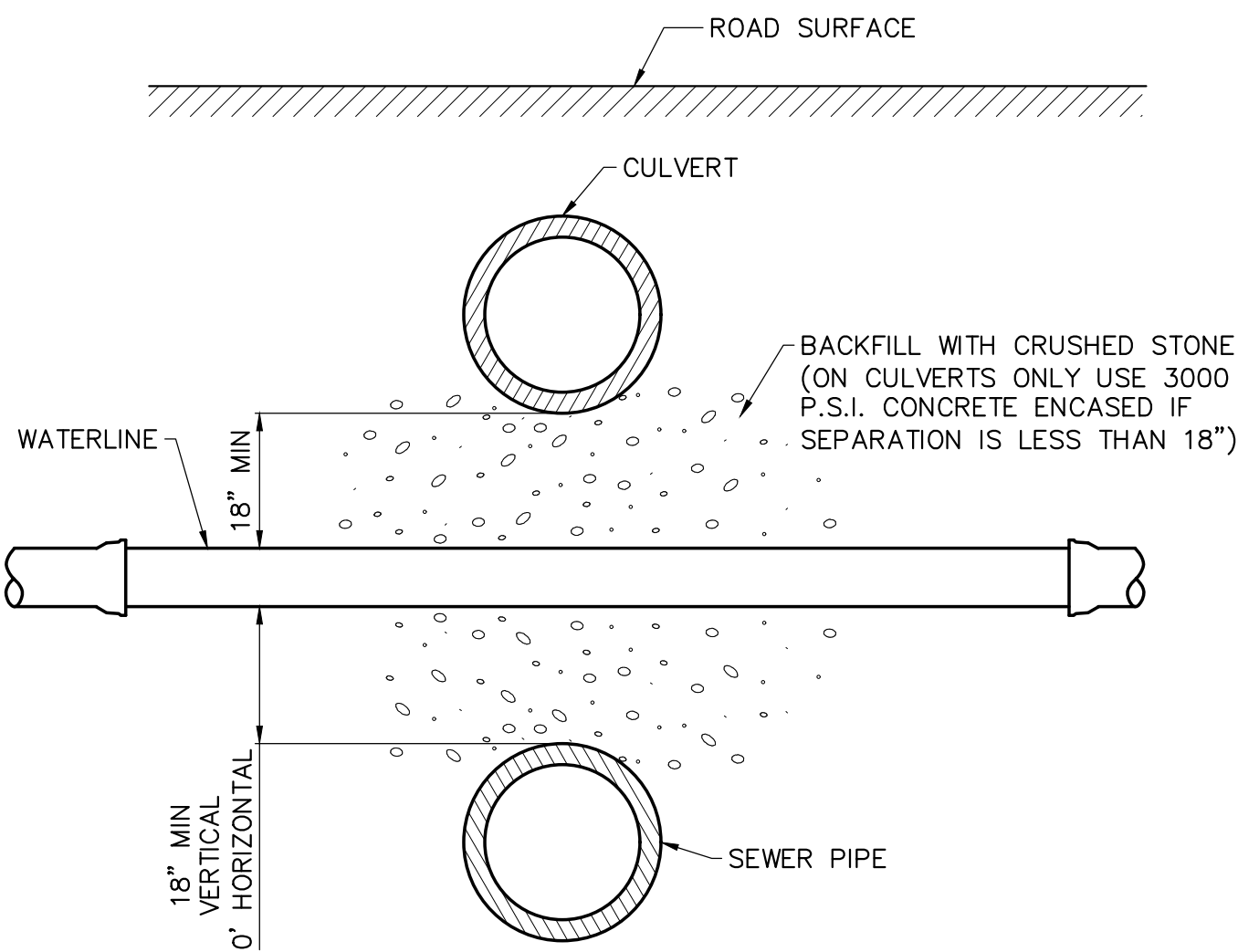




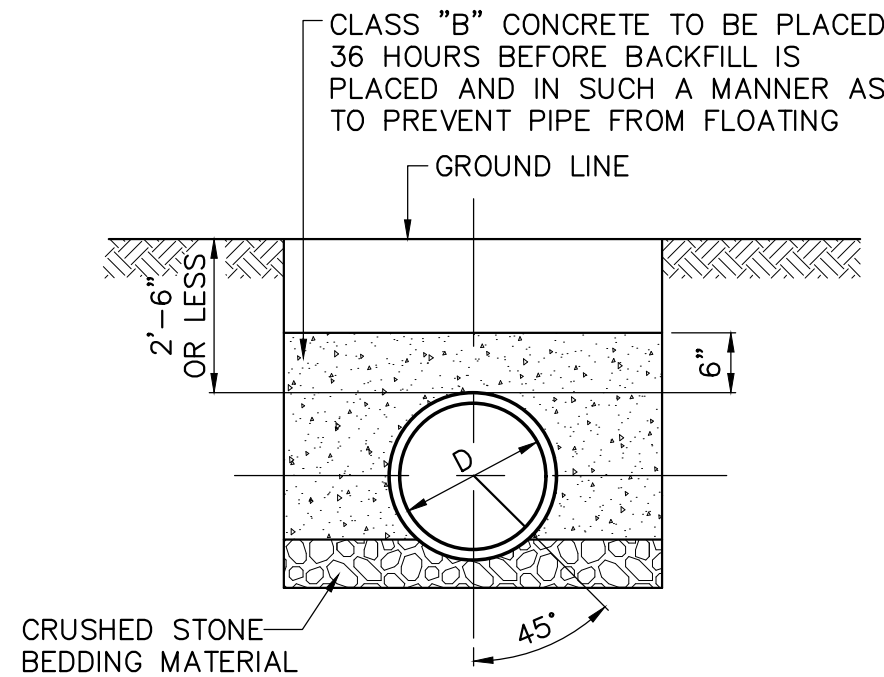
**D.I.P. INSTALLATION DETAIL**  
NOT TO SCALE



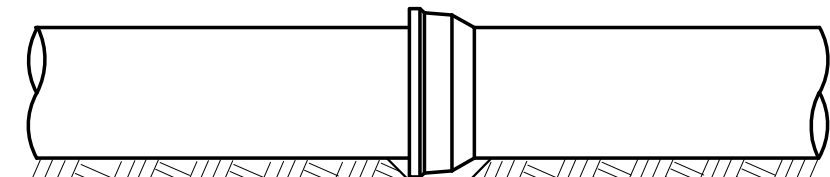
**GATE VALVE INSTALLATION DETAIL**  
NOT TO SCALE



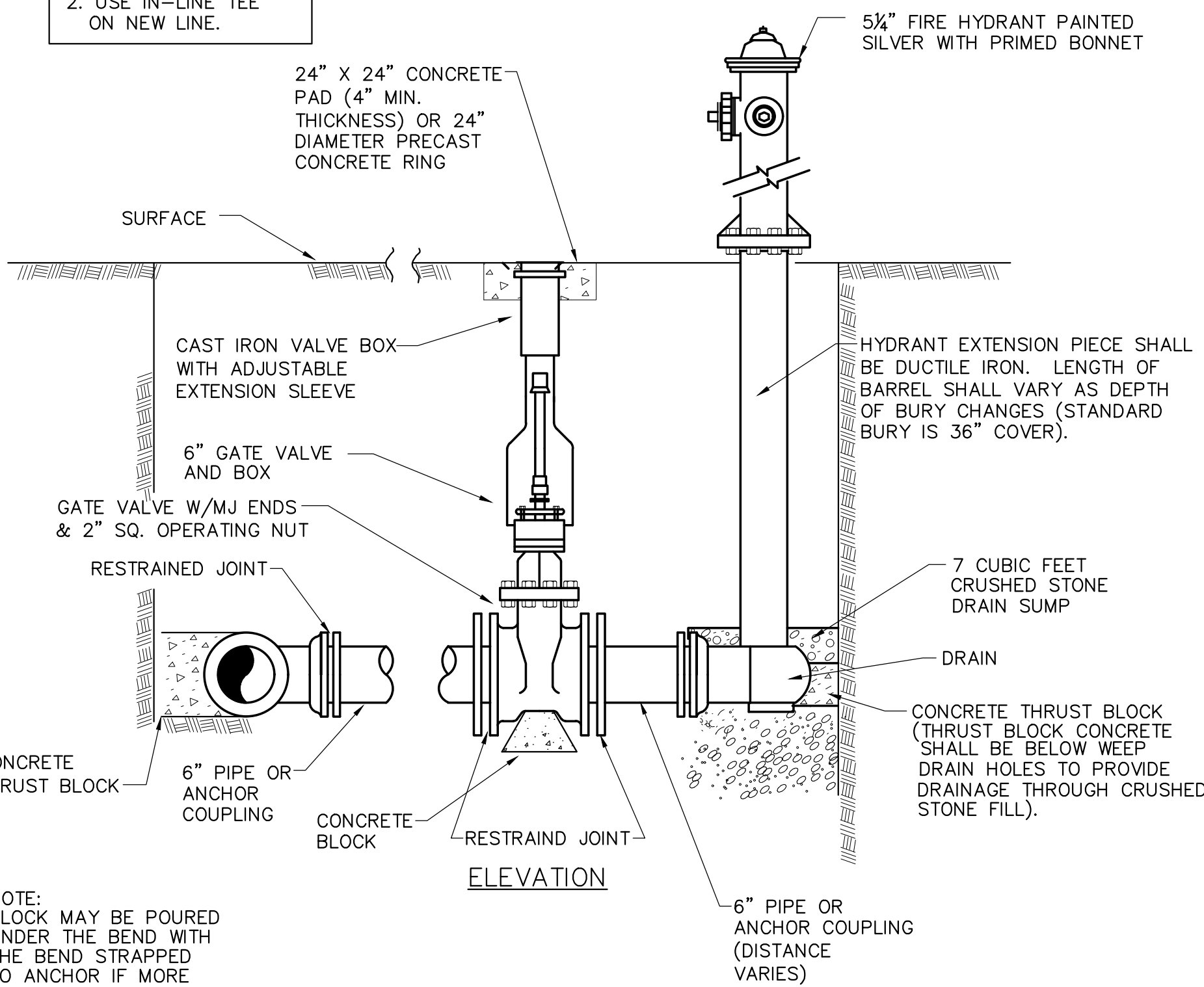
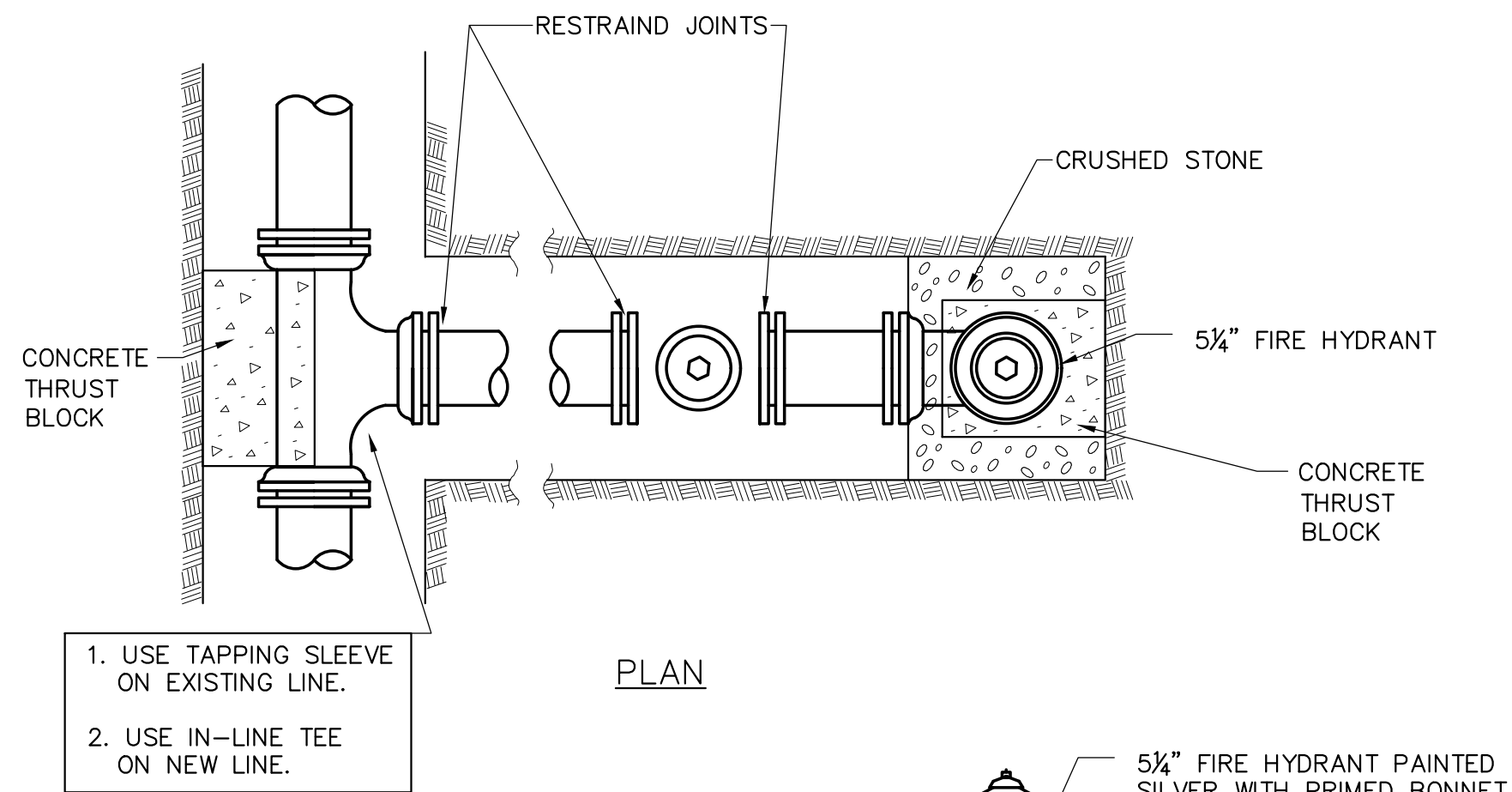
**DETAIL OF INSTALLATION UNDER CULVERT OR OVER SEWER PIPE**  
NOT TO SCALE



**TYPICAL SECTION CONCRETE PROTECTION**  
NOT TO SCALE



**UNIFORM PIPE SUPPORT DETAIL**  
NOT TO SCALE



NOTE: BLOCK MAY BE POURED UNDER THE BEND WITH THE BEND STRAPPED TO ANCHOR IF MORE PRACTICABLE.

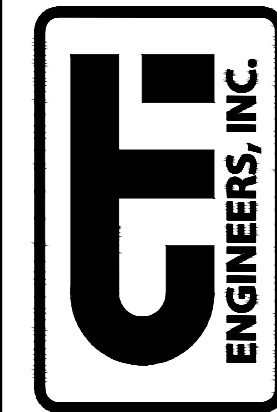
**FIRE HYDRANT ASSEMBLY**  
NOT TO SCALE

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NO.	REVISIONS	DATE	BY	APP'D

DESIGN	PRIS	DRAWN	TCF	CHECKED	MAB	APPROVED	PRIS

CITY OF FORT OGLETHORPE, GEORGIA  
BATTLEFIELD PARKWAY  
WATER LINE REPLACEMENT



GSWCC 934

JOB NO.

G19015-04

ISSUE DATE

05/04/2020

SCALE

AS NOTED

DRAWING NO.

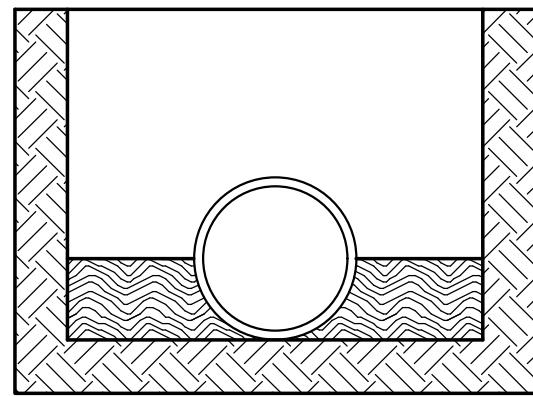
D-1.0

STANDARD DETAILS 1

CTI PROJECT: G19015-04 (Fort Oglethorpe, Georgia) Battlefield Parkway WL, DRAWING: STD DETAILS (6/14/39v10/6/5/5/20 10:51AM), LAYOUT: D-2

DATE OF PRINT: 7/22/2025 5:04 PM

TYPE 2 BEDDING																							
NOM. PIPE SIZE (IN.)		HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS																					
		ELBOWS (DEGREES)																					
		150psi						200psi						250psi									
3	4	7	15	36	5	10	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90		
4	4	9	18	43	6	12	24	58	7	14	30	72											
6	6	12	25	61	8	16	34	82	10	20	42	102											
8	8	16	33	79	10	21	43	105	13	26	54	131											
10	9	19	39	95	12	25	52	126	16	31	65	158											
12	11	22	46	110	15	29	61	147	18	37	76	228											
14	12	25	52	126	17	33	69	168	21	42	87	209											
16	14	28	58	140	18	37	77	187	23	46	97	234											
18	15	31	64	154	20	41	85	206	25	51	107	257											
20	17	33	69	168	22	44	93	224	28	56	116	279											
24	19	39	80	194	25	51	107	259	32	64	134	323											
NOM. PIPE SIZE (IN.)		VERTICAL DOWN (NON-ENCROACHING) BENDS																					
		ELBOWS (DEGREES)																					
		150psi						200psi						250psi									
3	5	11	23	56	2	3	6	15	2	4	8	20											
4	7	13	28	67	2	4	8	18	2	5	10	25											
6	9	19	39	95	3	5	11	26	3	7	14	35											
8	12	24	51	123	3	7	14	34	4	9	19	45											
10	15	30	62	149	4	8	17	41	5	11	22	54											
12	17	35	72	174	5	10	20	48	6	13	26	64											
14	20	39	82	198	5	11	23	55	7	14	30	73											
16	22	44	92	221	6	12	25	61	8	16	34	82											
18	24	49	101	245	7	14	28	68	9	18	38	91											
20	26	53	110	266	7	15	31	74	10	20	41	99											
24	31	62	129	310	9	17	36	87	11	23	48	116											
NOM. PIPE SIZE (IN.)		VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT)																					
		ELBOWS (DEGREES)																					
		150psi						200psi						250psi									
3	7	14	30	72	8	18	39	95	11	23	49	119											
4	9	17	36	87	10	22	47	115	13	28	59	144											
6	12	24	51	123	15	31	67	162	19	40	84	203											
8	16	31	65	157	20	41	86	209	25	51	108	261											
10	19	38	79	190	24	49	104	252	30	62	130	315											
12	22	44	92	221	28	58	121	294	35	72	152	367											
14	25	50	104	251	32	66	138	334	40	82	173	418											
16	28	56	116	280	36	73	154	373	45	92	193	466											
18	30	61	128	309	40	81	169	410	50	101	212	513											
20	33	67	139	335	43	88	184	446	54	110	231	558											
24	38	77	161	388	50	102	213	516	63	128	267	646											
NOM. PIPE SIZE (IN.)		VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT)																					
		ELBOWS (DEGREES)																					
		150psi						200psi						250psi									
3	11	22	46	112	14	29	61	148	17	36	76	185											
4	13	27	56	135	17	35	73	178	21	44	92	223											
6	19	38	79	191	24	50	104	253	30	62	131	317											
8	24	49	102	246	31	64	135	327	39	81	169	409											
10	29	59	123	297	38	78	163	395	48	98	204	494											
12	34	69	144	347	45	91	191	462	56	114	239	578											
14	39	79	164	396	51	104	218	527	64	130	273	659											
16	44	88	183	443	57	116	244	590	72	146	305	737											
18	48	97	203	489	63	129	269	651	79	161	337	814											
20	52	106	221	553	69	140	293	709	86	176	367	887											
24	61	123	257	621	80	164	342	826	101	205	427	1033											
NOM. PIPE SIZE (IN.)		TEES, VALVES, DEAD-ENDS																					
		150psi						200psi						250psi									
		REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS
3	-----	56	-----	74	-----	93																	
4	21	67	29	90	36	112																	
6	49	95	66	127	82	159																	
8	51	123	69	164	86	205																	
10	50	149	66	198	83	248																	
12	51	174	68	231	85	289																	
14	51	198	68	264	84	330																	
16	50	221	67	295	84	369																	
18	50	245	66	326	83	408																	
20	49	266	66	355	82	444																	
24	93	310	124	414	155	517																	

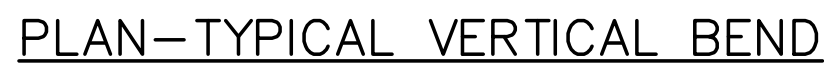


TYPE 2 BEDDING  
FLAT-BOTTOM TRENCH\*. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.

\* "FLAT-BOTTOM" IS DEFINED AS "UNDISTURBED EARTH".

\*\* "LOOSE SOIL" IS DEFINED AS "NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH".

TYPE 3 BEDDING																									
NOM. PIPE SIZE (IN.)		HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS																							
		ELBOWS (DEGREES)																							
		150psi						200psi						250psi											
3	4	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	21	3	6	12	28	3	7	15	35	3	4	9	21	3	7					
4	5	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	21	3	6	12	28	3	7	15	35	3	4	9	21	3	7					
6	8	16	37	15	36	3	6	12	28	6	12	28	6	12	28	6	12	28	6	12					
8	5	9	19	46	6	12	25	62	8	15	32	8	15	32	7	15	32	7	15	32					
10	5	11	23	56	7	15	31	74	9	18	38	9	18	38	9	18	38	9	18	38					
12	6	13	27	65	8	17	36	86	11	21	45	10	21	45	10	21	45	10	21	45					
14	7	15	30	74	10	19	41	98	12	24	51	12	24	51	12	24	51	12	24	51					
16	8	16	34	82	11	22	45	109	13	27	57	13	27	57	13	27	57	13	27	57					
18	9	18	37	90	12	24	50	120	15	30	62	15	30	62	15	30	62	15	30	62					
20	10	19	41	98	13	26	54	132	16	32	68	16	32	68	16	32	68	16	32	68					
24	11	23	47	113	15	30	63	151	19	38	78	19	38	78	19	38	78	19	38	78					
NOM. PIPE SIZE (IN.)		VERTICAL DOWN (NON-ENCROACHING) BENDS																							
		ELBOWS (DEGREES)																							
		150psi						200psi						250psi											
3	4	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45	90	11 <sup>1/4</sup>	22 <sup>1/2</sup>	45					
4	4	9	18	44	6	12	24	58	7	14	30	7	14	30	7	14	30	7	14	30					
6	6	12	26	62	8	16	34	82	10	20	44	10	20	44	10	20	44	10	20	44					
8	8	16	33	80	10	21	42	106	13	26	53	13	26	53	13	26	53	13	26	53					
10	9	19	40	96	13	26	53	128	16	32	67	16	32	67	16	32	67	16	32	67					
12	11	22	47	113	15	30	62	150	18	37	78	18	37	78	18	37	78	18	37	78					
14	13	26	53	128	17	34	71	171	21	43	89	21	43	89	21	43	89	21	43	89					
16	14	29	59	144	19	38	79	191	24	48	99	24	48	99	24	48	99	24	48	99					
18	16	32	66	159	21	42	88	211	26	53	109	26	53	109	26	53	109	26	53	109					
20	17	34	72	173	23	46	95	230	28	57	119	28	57	119	28	57	119	28	57	119					
24	20	40	83	201	26	53	111	268	33	67	139	33	67	139	33	67	139	33	67	139					
NOM. PIPE SIZE (IN.)		VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT)																							
		ELBOWS (DEGREES)																							
		150psi						200psi						250psi											
3	3	7	17	41	5	10	22	55	6	13	28	7	16	34	8	17	40	9	19	44					
4	4	9	20	71	8	16	33	95	11	23	49	11	23	49	11	23	49	11	23	49					
6	6	13	29	61	11	23	50	122	14	30	63	15	32	70	16	34	80	18	38	91					
8	8	17	37	91	14	28	60	144	18	37	86	20	41	94	22	45	103	25	51	113					
10	10	21	45	110	16	34	70	171	20	41	94	22	45	103	25	51	113	28	58	124					
12	12	25	53	128	16	38	80	195	23	46	110	24	48	112	24	48	112	24	48	112					
14	13	28	60	146	18	38	80	218	26	53	124	27	56	127	27	56	127	27	56	127					
16	15	32	67	163	21	42	90	218	26	53	124	27	56	127	27	56	127	27	56	127					
18	17	35	74	179	23	47	99	239	29	59	133	30	61	136	30	61	136	30	61	136					
20	20	38	80	195	25	51	107	260	31	64	134	32	66	138	32	66	138	32	66	138					
24	21	44	93	225	29	59	124	301	36	74	155	37	76	158	37	76	158	37	76	158					
NOM. PIPE SIZE (IN.)		VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT)																							
		ELBOWS (DEGREES)																							
		150psi						200psi						250psi											
3	3	6	13	29	71	8	18	39	95	11	23	49	11	23	49	11	23	49	11	23					
4	4	8	16	35	86	10	22	47	115	13	28	59	14	30	64	15	33	68	16	36					
6	6	11	24	50	123	15	32	67	164	19	40	84	20	44	90	22	48	96	24	54					
8	8	15	31	65	158	20	41	87	212	25	52	109	26	55	113	27	58	117	29	62					
10	10	18	37	79	192	24	50	105	256	31	64	132	32	67	137	34	70	143	37	80					
12	12	21	44	102	224	29	59	123	299	36	74	154	37	76	157	38	78	160	40	84					
14	14	24	50	105	256	33	67	141	341	41	84	164	42	86	167	43	88	170	45	93					
16	16	27	56	118	286	37	75	158	382	46	94	177	47	96	180	48	98	183	50	103					
18	18	30	62	130	316	41	83	174	422	51	104	216	52	106	219	53	108	222	55	112					
20	20	33	68	142	344	44	91	190	459	56	113	237	57	115	240	58	117	243	60	122					
24	24	39	79	166	401	52	106	221	535	65	132	277	66	134	280	67	136	283	69	140					
NOM. PIPE SIZE (IN.)		TEES, VALVES, DEAD-ENDS																							
		REDUCERS						REDUCERS						REDUCERS						REDUCERS					
		150psi						200psi						250psi											
3	3	11	44	36	-----	48	-----	63	-----	70	-----	83	-----	103	-----	113	-----	133	-----	161					
4	4	14	44	44	19	58	233	60	-----	73	-----	86	-----	103	-----	113	-----	133	-----	161					
6	6	32	62	42	82	106	56	133	-----	103	-----	113	-----	133	-----	143	-----	163	-----	193					
8	8	32	62	42	82	106	56	133	-----	103	-----	113	-----	133	-----	143	-----	163	-----	193					
10	10	32	62	42	82	106	56	133	-----	103	-----	113	-----	133	-----	143	-----	163	-----	193					
12	12	33	113	44	130	44	150	54	188	-----	113	-----	133	-----	143	-----	163	-----	193	-----					
14	14	33	128	44	171	55	214	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----					
16	16	33	144	43	191	54	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----					
18	18	32	159	43	211	54	264	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----					
20	20	32	173	43	230	53	288	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----					
24	24	60	201	80	268	100	338	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----					



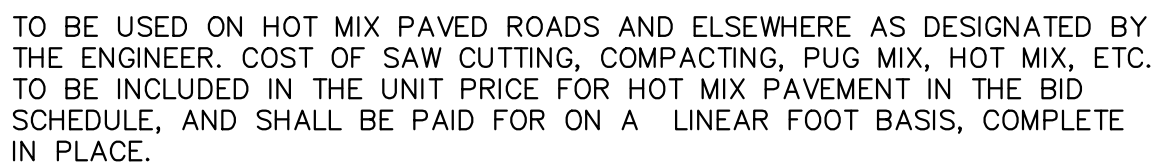
### CONCRETE THRUST BLOCK DETAILS

N.T.S.

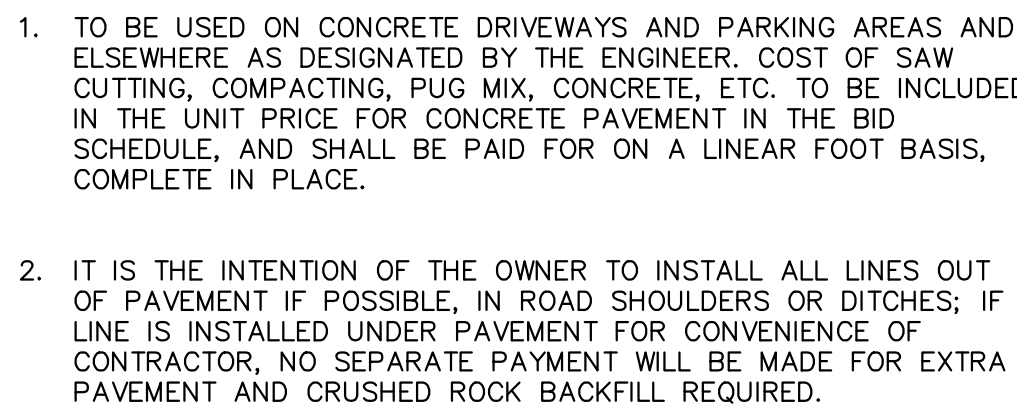
	WELDED STEEL (MIN STDS)	
CARRIER SIZE	CASING SIZE	WALL THICKNESS OF CASING PIPE
2"	4"	0.237"
4"	10"	0.250"
6"	12"	0.250"
8"	16"	0.312"
10"	20"	0.375"
12"	24"	0.375"
18"	30"	0.500"
24"	36"	0.500"



1. WATER LINES CROSSING UNDER PAVED ROADS AND PAVED CROSSROADS WITHIN THE DESIGNATED STREETS SHALL BE ENCASED AND PLACED BY BORING AND JACKING SHALL EXTEND FROM TOE OF SHOULDER SLOPE TO TOE OF SHOULDER SLOPE ON LINES CROSSING THE ENTIRE WIDTH OF RIGHT-OF-WAY. THE LENGTH OF CASING SHALL BE DETERMINED BY THE COUNTY HIGHWAY DEPARTMENT ENGINEER OR THE ENGINEER. ALL WORK SHALL BE COMPLETED AS SHOWN ON THIS DRAWING.
2. ALL WATER LINE SHALL HAVE A MINIMUM COVER OF 36" EXCEPT WHERE DEEPER COVER IS INDICATED ON THE DRAWINGS. ALL TRENCH EXCAVATION WITHIN RIGHT-OF-WAY BUT NOT UNDER PAVEMENT SHALL BE BACKFILLED BY TAMPING IN 6" LAYERS. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND THE EXCAVATION FINISHED FLUSH WITH SURROUNDING GROUND.
3. CASING PIPE SHALL BE WELDED STEEL PIPE AND SHALL BE COATED INSIDE AND OUT PER SPECIFICATIONS.
4. ALL INSTALLATION SHALL BE DONE IN A MANNER WHICH WILL NOT OBSTRUCT STORMWATER PIPES, CULVERTS OR SURFACE WATER DRAINAGE FACILITIES OF HIGHWAY, STREET OR CONNECTION.
5. THE INSTALLATION OF SAID FACILITY SHALL BE DONE UNDER THE SUPERVISION AND CONTROL OF THE COUNTY HIGHWAY DEPARTMENT PROJECT ENGINEER.
6. THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS FOR HIGHWAY TRAFFIC CONTROL DURING THE WORK AND SHALL PROVIDE NECESSARY BARRICADES, WARNING SIGNS, SIGNALS, LIGHTS, AND NECESSARY FLAGMEN FOR THE TRAVELING PUBLIC.



IT IS THE INTENTION OF THE OWNER TO INSTALL ALL LINES OUT OF PAVEMENT IF POSSIBLE, IN ROAD SHOULDERS OR DITCHES; IF THE LINE IS INSTALLED UNDER PAVEMENT FOR CONVENIENCE OF CONTRACTOR, NO SEPARATE PAYMENT WILL BE MADE FOR EXTRA PAVEMENT AND CRUSHED ROCK BACKFILL REQUIRED.





TYPE "1" CEMENT CONCRETE  
PAVEMENT REPLACEMENT DETAIL

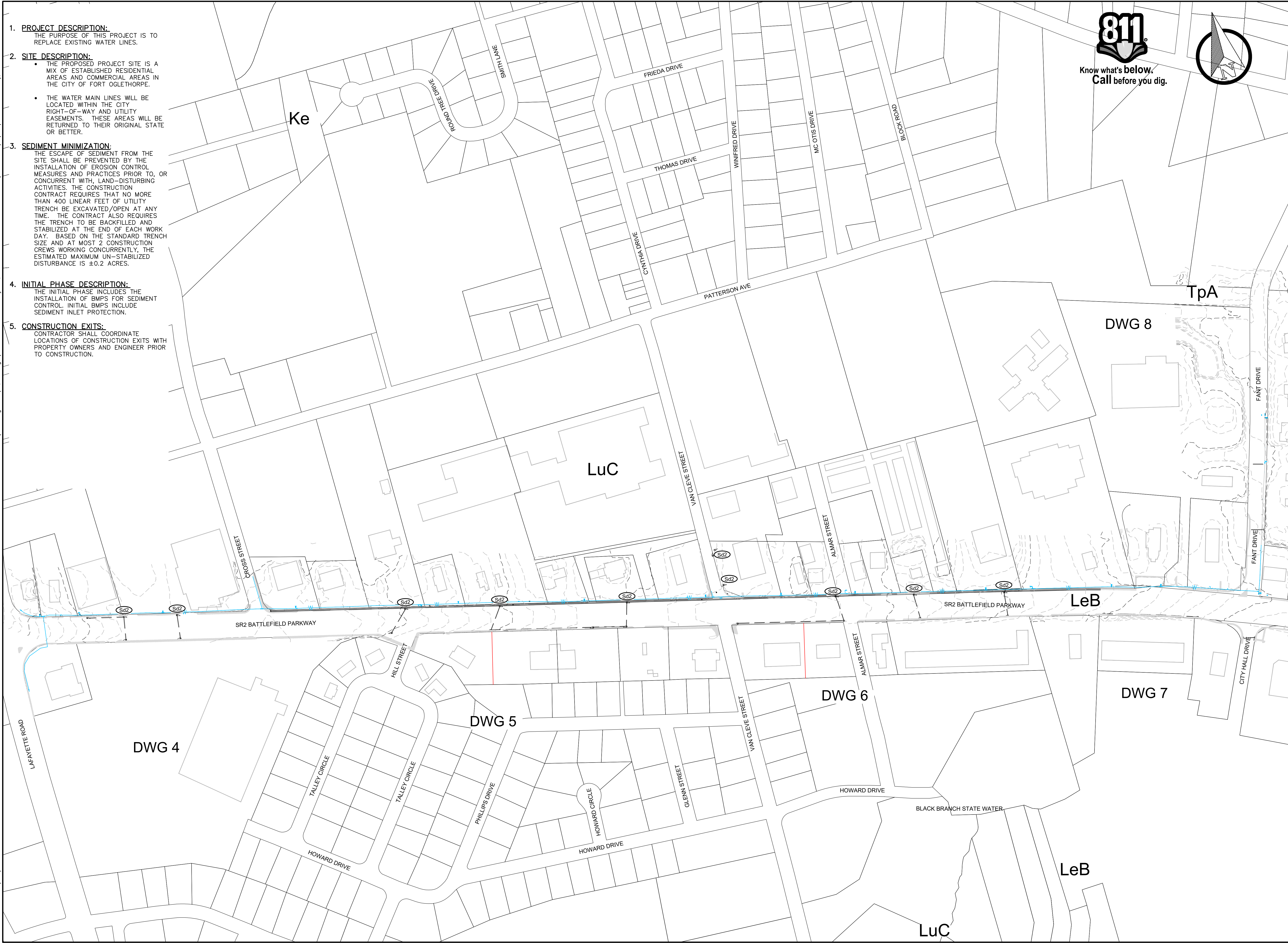
NOT TO SCALE

TYPE "5" CEMENT CONCRETE  
PAVEMENT REPLACEMENT DETAIL

NOT TO SCALE

<div><div>GSWCC 934</div><div>JOB NO. G19015-04</div><div>ISSUE DATE 05/04/2020</div><div>SCALE AS NOTED</div><div>DRAWING NO. D-3.0</div></div> <div><div><b>CITY OF FORT OGLETHORPE, GEORGIA</b> <b>BATTLEFIELD PARKWAY</b> <b>WATER LINE REPLACEMENT</b>  <b>STANDARD DETAILS 3</b></div></div> <div><div><div>DESIGN</div><div>PRB</div><div>DRAWN</div><div>TGF</div><div>CHECKED</div><div>MAB</div><div>APPROVED</div><div>PRB</div></div><div><div>NO.</div><div>DESCRIPTIONS</div><div>DATE</div><div>BY</div><div>APP'D</div></div></div> <div><div>THIS DRAWING IS AN INSTRUMENT OF SERVICE FOR THE PROJECT AND SHALL REMAIN THE PROPERTY OF GWCC. IT SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OF THIS DRAWING OR PORTIONS THEREOF, WITHOUT PRIOR WRITTEN CONSENT OF GWCC, IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO SUCH REUSE.</div></div>	NO.	DESCRIPTIONS	DATE	BY	APP'D																																								
	NO.	DESCRIPTIONS	DATE	BY	APP'D																																								

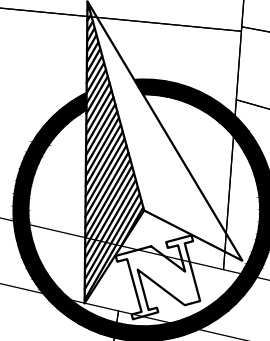


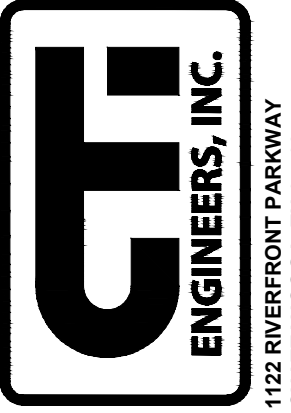
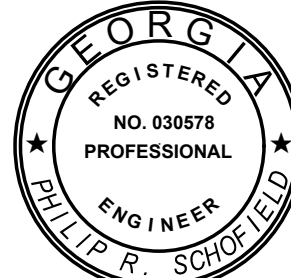


- PROJECT DESCRIPTION:**  
THE PURPOSE OF THIS PROJECT IS TO REPLACE EXISTING WATER LINES.
- SITE DESCRIPTION:**
  - THE PROPOSED PROJECT SITE IS A MIX OF ESTABLISHED RESIDENTIAL AREAS AND COMMERCIAL AREAS IN THE CITY OF FORT OGLETHORPE.
  - THE WATER MAIN LINES WILL BE LOCATED WITHIN THE CITY RIGHT-OF-WAY AND UTILITY EASEMENTS. THESE AREAS WILL BE RETURNED TO THEIR ORIGINAL STATE OR BETTER.
- SEDIMENT MINIMIZATION:**  
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. THE CONSTRUCTION CONTRACT REQUIRES THAT NO MORE THAN 400 LINEAR FEET OF UTILITY TRENCH BE EXCAVATED/OPEN AT ANY TIME. THE CONTRACT ALSO REQUIRES THE TRENCH TO BE BACKFILLED AND STABILIZED AT THE END OF EACH WORK DAY. BASED ON THE STANDARD TRENCH SIZE AND AT MOST 2 CONSTRUCTION CREWS WORKING CONCURRENTLY, THE ESTIMATED MAXIMUM UN-STABILIZED DISTURBANCE IS ±0.2 ACRES.
- INITIAL PHASE DESCRIPTION:**  
THE INITIAL PHASE INCLUDES THE INSTALLATION OF BMPS FOR SEDIMENT CONTROL. INITIAL BMPS INCLUDE SEDIMENT INLET PROTECTION.
- CONSTRUCTION EXITS:**  
CONTRACTOR SHALL COORDINATE LOCATIONS OF CONSTRUCTION EXITS WITH PROPERTY OWNERS AND ENGINEER PRIOR TO CONSTRUCTION.



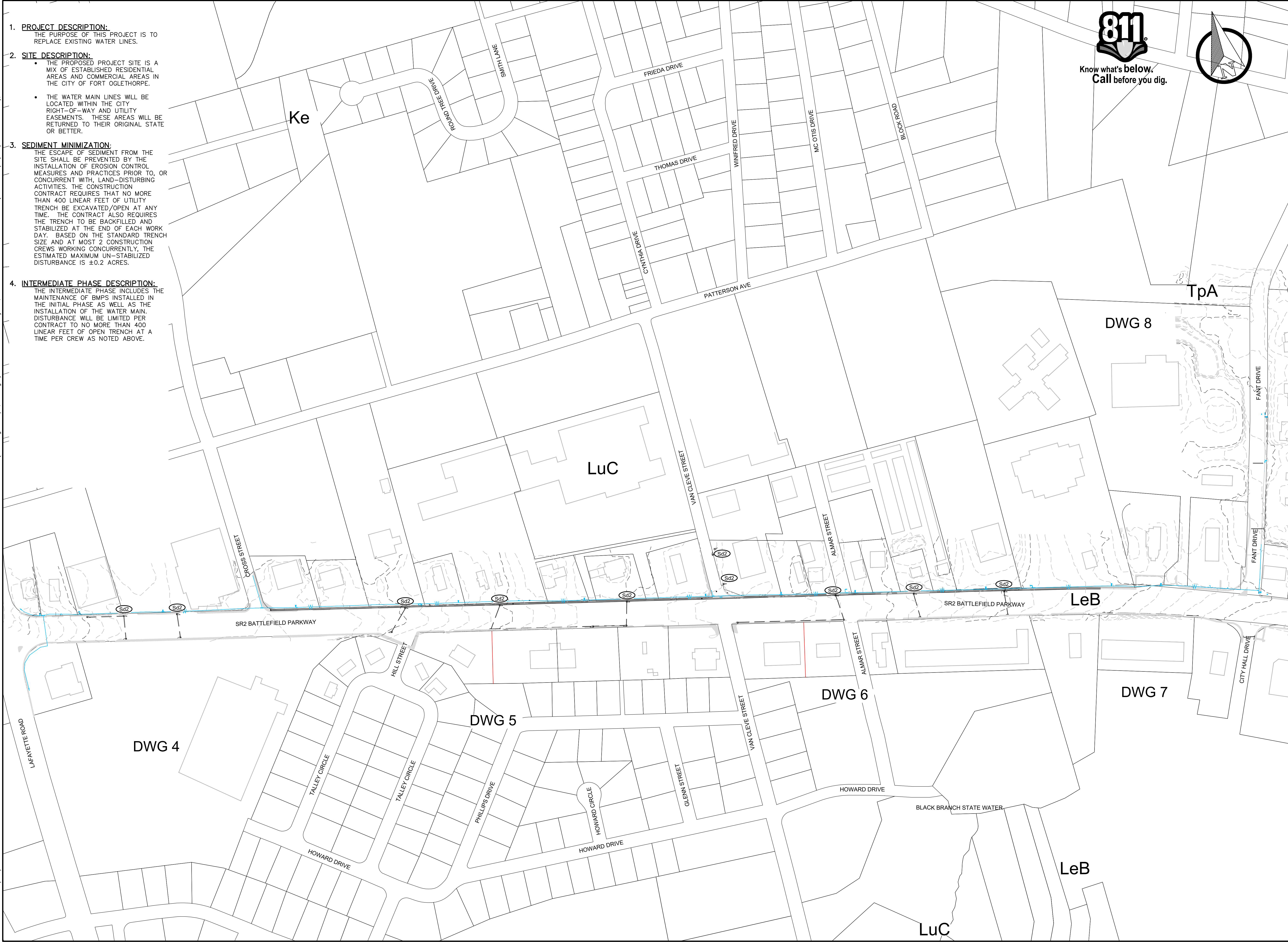
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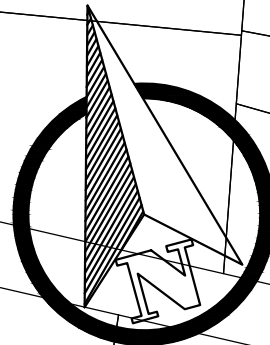
DESIGN		REVISIONS		NO.	
PRS	PLW	DATE	BY	APPD	
FORT OGLETHORPE, GEORGIA BATTLEFIELD PARKWAY WATER LINE REPLACEMENT		EPSC INITIAL PLAN			
 ENGINEERS, INC. 1122 RIVERFRONT PARKWAY CHATTANOOGA, TN 37402 423-267-7813		 REGISTERED NO. 030578 PROFESSIONAL ENGINEER PHILIP R. SCHOFIELD GSWCC 934			
		JOB NO. G19015-04			
		ISSUE DATE 05/04/2020			
		SCALE AS NOTED			
		DRAWING NO. ES-2.0			

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- SEDIMENT MINIMIZATION:**  
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. THE CONSTRUCTION CONTRACT REQUIRES THAT NO MORE THAN 400 LINEAR FEET OF UTILITY TRENCH BE EXCAVATED/OPEN AT ANY TIME. THE CONTRACT ALSO REQUIRES THE TRENCH TO BE BACKFILLED AND STABILIZED AT THE END OF EACH WORK DAY. BASED ON THE STANDARD TRENCH SIZE AND AT MOST 2 CONSTRUCTION CREWS WORKING CONCURRENTLY, THE ESTIMATED MAXIMUM UN-STABILIZED DISTURBANCE IS ±0.2 ACRES.
- INTERMEDIATE PHASE DESCRIPTION:**  
THE INTERMEDIATE PHASE INCLUDES THE MAINTENANCE OF BMPS INSTALLED IN THE INITIAL PHASE AS WELL AS THE INSTALLATION OF THE WATER MAIN. DISTURBANCE WILL BE LIMITED PER CONTRACT TO NO MORE THAN 400 LINEAR FEET OF OPEN TRENCH AT A TIME PER CREW AS NOTED ABOVE.

DESIGN		REVISIONS		NO.	
PRS	DRAWN	DATE	BY	APPD	
PLW	CHECKED	DESCRIPTIONS			
MAB	APPROVED				
PRS					

**FORT OGLETHORPE, GEORGIA**  
**BATTLEFIELD PARKWAY**  
**WATER LINE REPLACEMENT**

**EPSC INTERMEDIATE PLAN**

**ENGINEERS, INC.**  
1122 RIVERFRONT PARKWAY  
CHATTANOOGA, TN 37402  
423-267-7813

**REGISTERED PROFESSIONAL ENGINEER**  
PHILLIP R. SCHOFIELD  
GSWCC 934

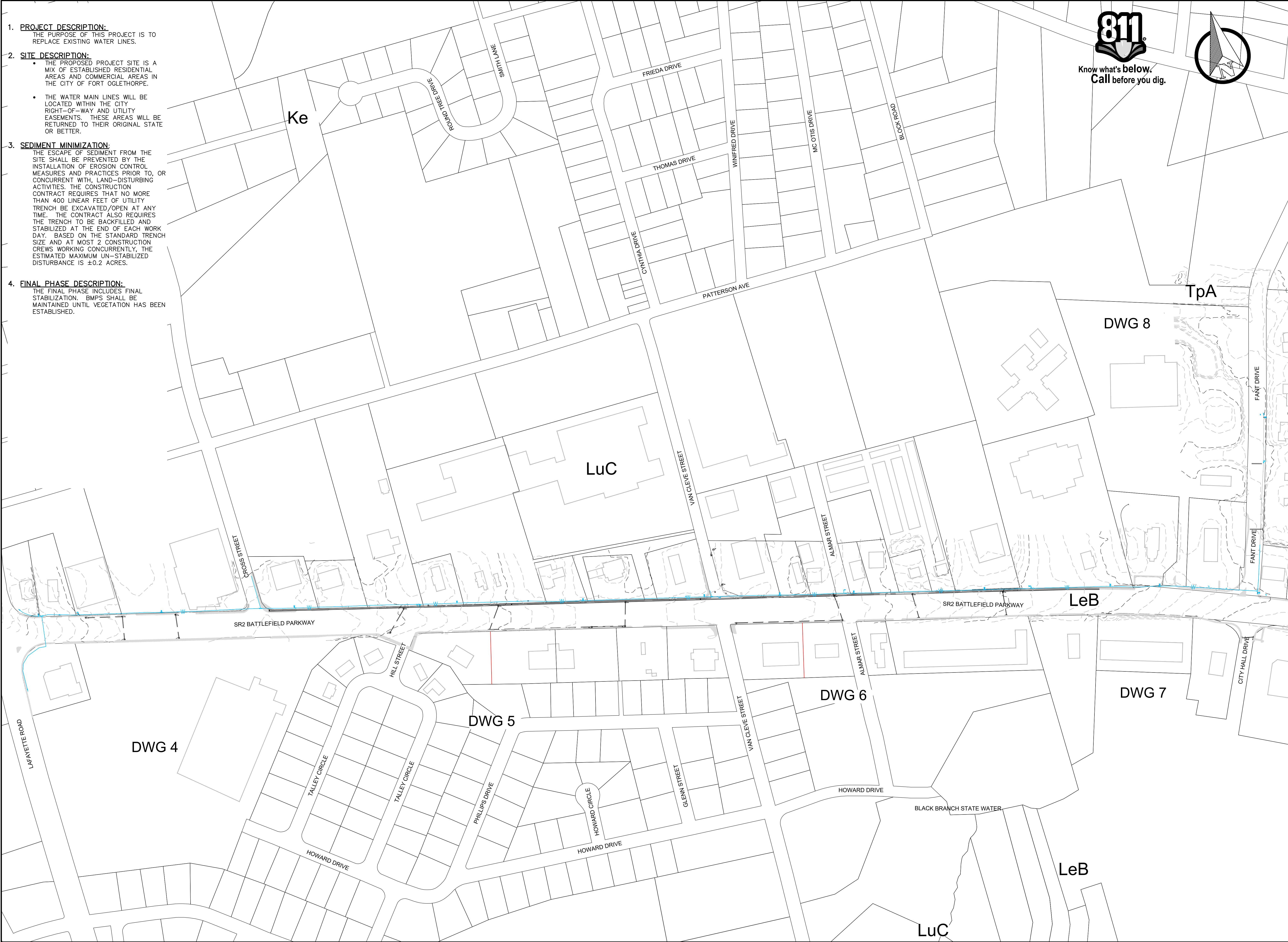
JOB NO.  
G19015-04

ISSUE DATE  
05/04/2020

SCALE  
AS NOTED

DRAWING NO.  
ES-3.0

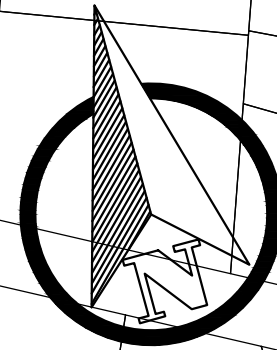




1. **PROJECT DESCRIPTION:**  
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2. **SITE DESCRIPTION:**
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4. **FINAL PHASE DESCRIPTION:**  
THE FINAL PHASE INCLUDES FINAL STABILIZATION. BMPS SHALL BE MAINTAINED UNTIL VEGETATION HAS BEEN ESTABLISHED.



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FORT OGLETHORPE, GEORGIA

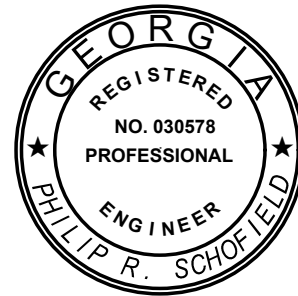
BATTLEFIELD PARKWAY

WATER LINE REPLACEMENT

EPSC FINAL PLAN



ENGINEERS, INC.  
1122 RIVERFRONT PARKWAY  
CHATTANOOGA, TN 37402  
423-267-7813



GSWCC 934

JOB NO.

G19015-04

ISSUE DATE

05/04/2020

SCALE

AS NOTED

DRAWING NO.

ES-4.0