### **CONSTRUCTION NOTES:**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL SPECIFICATIONS AND STANDARDS AS STATED IN THE OCONEE COUNTY WATER RESOURCES DEPARTMENT WATER AND WASTEWATER STANDARD AND SPECIFICATIONS LATEST VERSION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL PLANS FOR ALL WORK PRIOR TO CONSTRUCTION.
- ALL PVC SHALL BE SHALL BE SCH. 40 PVC AND ALL D.I.P.
   SHALL BE 401 PROTECTO CERAMIC EPOXY LINED
   DUCTILE IRON PIPE.
- CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF CONFLICTS EXIST. CONTRACTOR TO COORDINATE RELOCATION OF ANY UTILITIES WITH UTILITY PROVIDER.

#### \*\*\*CAUTION\*\*\*

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS
CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON
THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE
LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S
RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE
WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE
CONTRACTOR SHALL BE SOLO RESPONSIBILITY OF THE CONTRACTOR.

ACTIVITY SCHEDULE								
		MONTHS: (2021)						
	S	Start Date: November 1, 2021						
TASK DESCRIPTION:	NOVEMBER	DECEMBER	JANUARY	FEBRUARY				
	1	2	3	4				
CONSTRUCTION EXIT AND PERIMETER SILT FENCE	X							
TEMPORARY SEDIMENT STORAGE FACILITIES	X							
CLEARING & GRUBBING	X	X	X					
ROUGH GRADING	X	X	X					
TEMPORARY STABILIZATION (GRASSING)	X	X	X	X				
SEWER LINE CONSTRUCTION	X	X	X	X				
FINAL STABILIZATION (SEEDING)			X	X				
MAINTENANCE	X	X	X	X				

### SPLOST SEWER LINE A

FOR

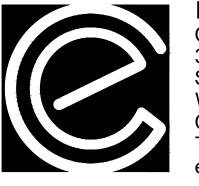
# CITY OF WATKINSVILLE OCONEE COUNTY, GA.

OCTOBER 26, 2021



LOCATION MAP SCALE: N.T.S.

### DESIGN BY:

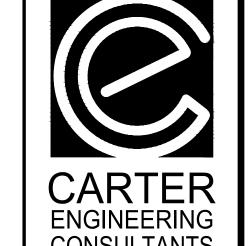


ENGINEER:
Carter Engineering Consultants, Inc.
3651 Mars Hill Road
Suite 2000
Watkinsville, Georgia 30677
Contact: Mark Campbell, P.E.
Tel.: (770) 725-1200
e-mail: mark@carterengineering.net

### INDEX TO DRAWINGS

HEET NUMBER	DESCRIPTION
C-1.0	COVER
C-2.0	OVERALL SITE
C-2.1	SITE PLAN I
C-2.2	SITE PLAN II
C-2.3	SITE PLAN III
C-2.4	SITE PLAN IV
C-2.5	SITE PLAN V
C-2.6	SITE PLAN VI
C-2.7	SITE PLAN VII
C-2.8	SITE PLAN VIII
C-2.9	SITE PLAN IX
C-2.10	SITE PLAN X
C-3.0	PROFILE I
C-3.1	PROFILE II
C-3.3	PROFILE III
C-4.0	<b>EROSION CONTROL NOTES</b>
C-4.1	ES&PC I
C-4.2	ES&PC II
C-4.3	ES&PC III
C-4.4	ES&PC IV
C-4.5	ES&PC V
C-4.6	ES&PC VI
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C-4.8	ES&PC VIII
C-4.9	ES&PC IX
C-4.10	ES&PC X
C-4.11	<b>EROSION DETAILS</b>
C-5.0	STANDARD DETAILS

# No. 32188 \* PROFESSIONAL \* ENGINEER A CAMPA



Carter Engineering Consultants, Inc. 3651 Mars Hill Road, Suite 2000 Watkinsville, GA 30677 P: 770.725.1200 F: 770.725.1204

SPLOST SEWER LINE A for SITY OF WATKINSVILLE.

PROJECT NAME:

CITY OF
WATKINSVILLE
SEWER LINE A

COVER

SHEET NUMBER:

PROJECT NUMBER:

C-1.0

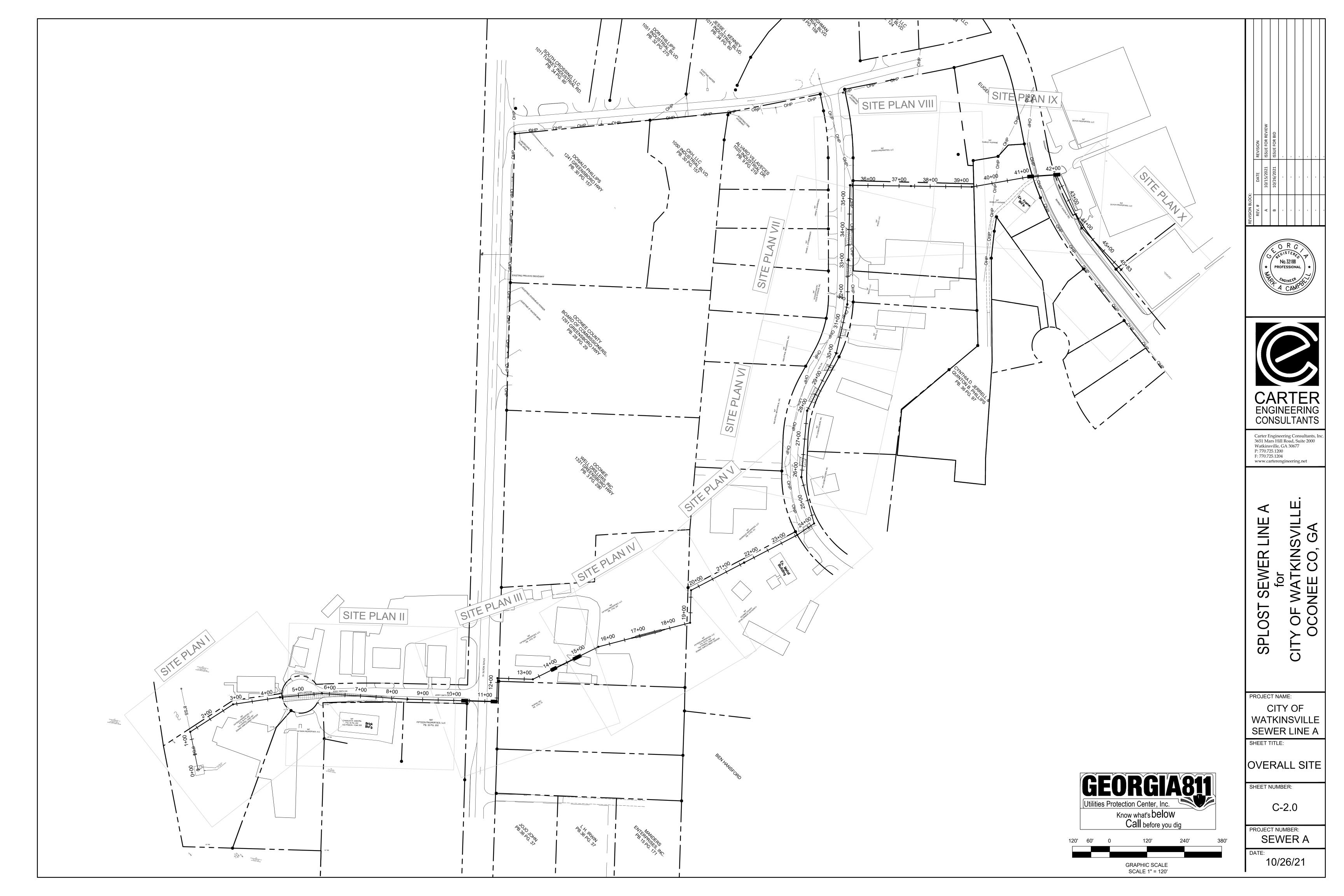
SEWER A

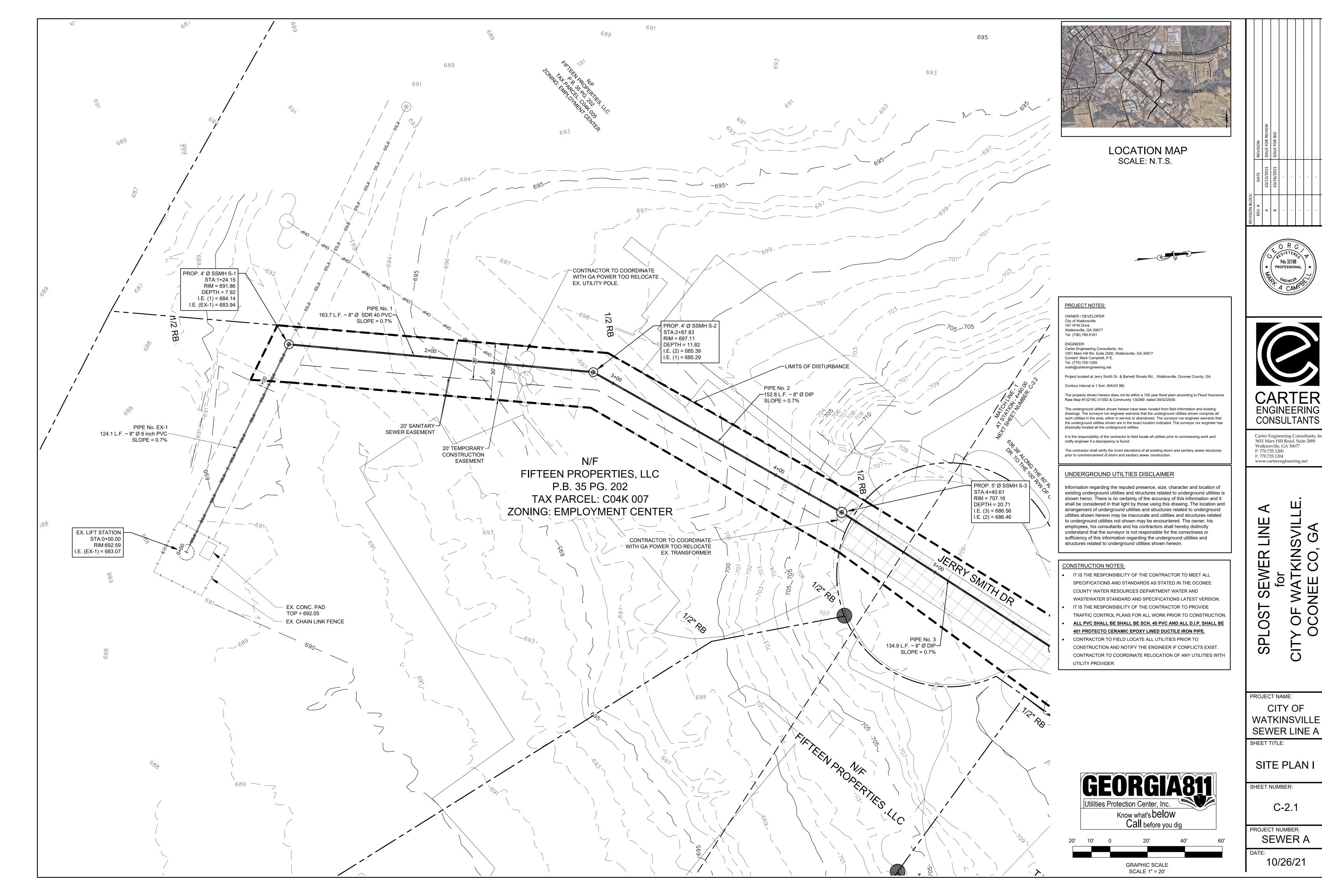
ATE: 10/26/21

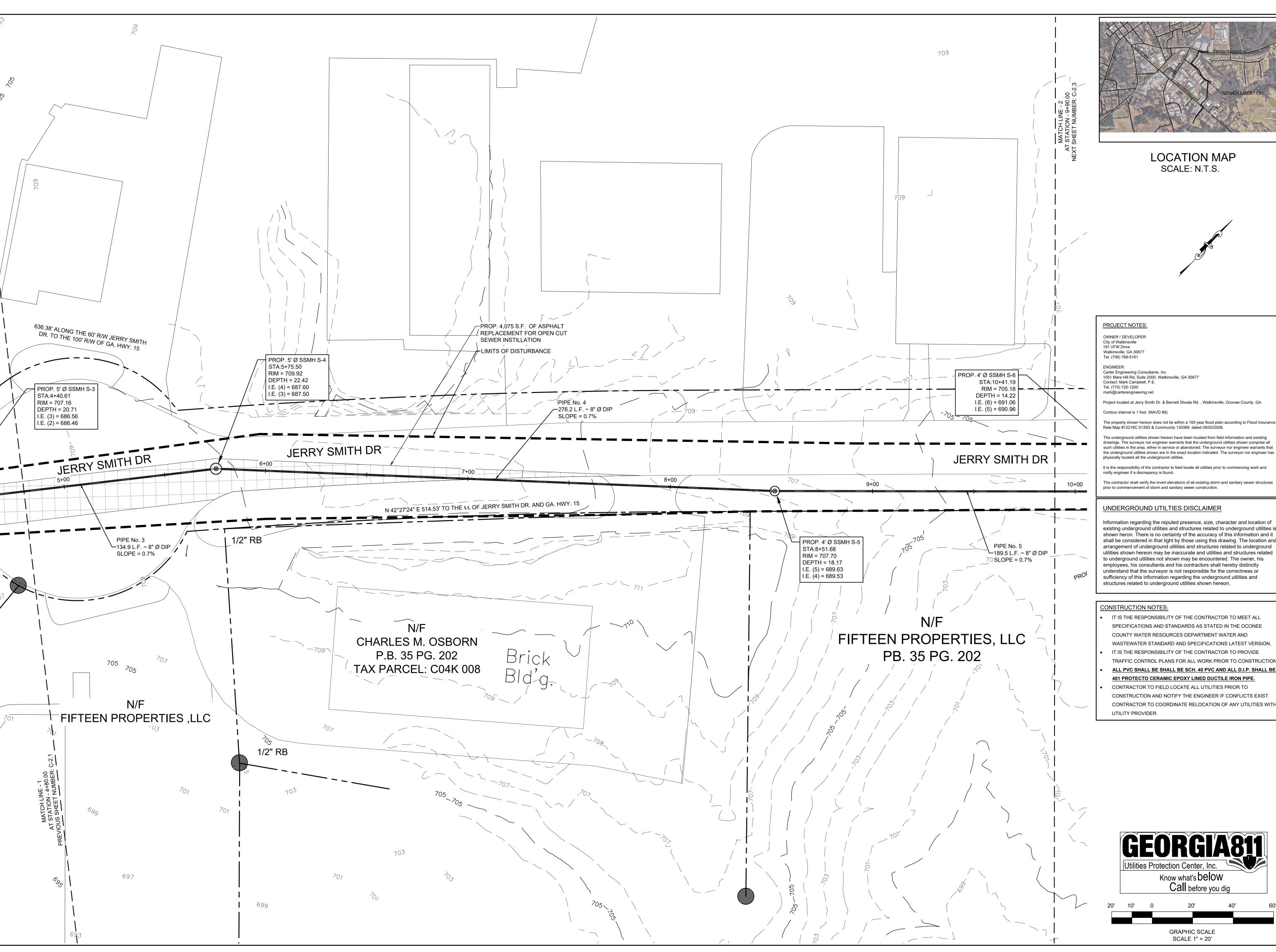
### **DEVELOPMENT DATA:**

- -OWNER: OCONEE COUNTY UTILITY DEPT.
- -OWNER ADDRESS: 1291 GREENSBORO HWY, WATKINSVILLE, GA 30677
- -DEVELOPER: OCONEE COUNTY WATER RESOURCES
- -DEVELOPER ADDRESS: 1291 GREENSBORO HWY, WATKINSVILLE, GA 30677
- -SITE ADDRESS: CITY OF WATKINSVILLE. OCONEE CO, GA
- -ALL IMPROVEMENTS TO CONFORM WITH THE CITY OF WATKINSVILLE
- AND THE OCONEE COUNTY, GA CONSTRUCTION STANDARDS AND
- SPECIFICATIONS, LATEST EDITION.
- -ENGINEER: CARTER ENGINEERING CONSULTANTS, Inc.
- -ZONING: EMPLOYMENT CENTER, CORRIDOR COMMERCIAL
- -SITE ACREAGE: 3.68 ACRES DISTURBED AREA: 3.68 ACRES

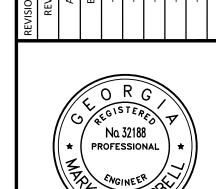












**ENGINEERING** 

**CONSULTANTS** 

Carter Engineering Consultants, Inc 3651 Mars Hill Road, Suite 2000

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Watkinsville, GA 30677

www.carterengineering.net

P: 770.725.1200

F: 770.725.1204

H H H

SEWER for

Project located at Jerry Smith Dr. & Barnett Shoals Rd. , Watkinsville, Oconee County, GA

Rate Map #13219C 0135D & Community 130369 dated 09/02/2009. The underground utilities shown hereon have been located from field information and existing drawings. The surveyor nor engineer warrants that the underground utilities shown comprise all

It is the responsibility of the contractor to field locate all utilities prior to commencing work and

The contractor shall verify the invert elevations of all existing storm and sanitary sewer structures prior to commencement of storm and sanitary sewer construction.

### UNDERGROUND UTILTIES DISCLAIMER

Information regarding the reputed presence, size, character and location of existing underground utilities and structures related to underground utilities is shown heron. There is no certainty of the accuracy of this information and it shall be considered in that light by those using this drawing. The location and arrangement of underground utilities and structures related to underground utilities shown hereon may be inaccurate and utilities and structures related to underground utilities not shown may be encountered. The owner, his employees, his consultants and his contractors shall hereby distinctly understand that the surveyor is not responsible for the correctness or sufficiency of this information regarding the underground utilities and structures related to underground utilities shown hereon.

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL SPECIFICATIONS AND STANDARDS AS STATED IN THE OCONEE COUNTY WATER RESOURCES DEPARTMENT WATER AND
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE
- CONTRACTOR TO COORDINATE RELOCATION OF ANY UTILITIES WITH

PROJECT NAME:

SPL

CITY OF WATKINSVILLE SEWER LINE A SHEET TITLE:

SITE PLAN II

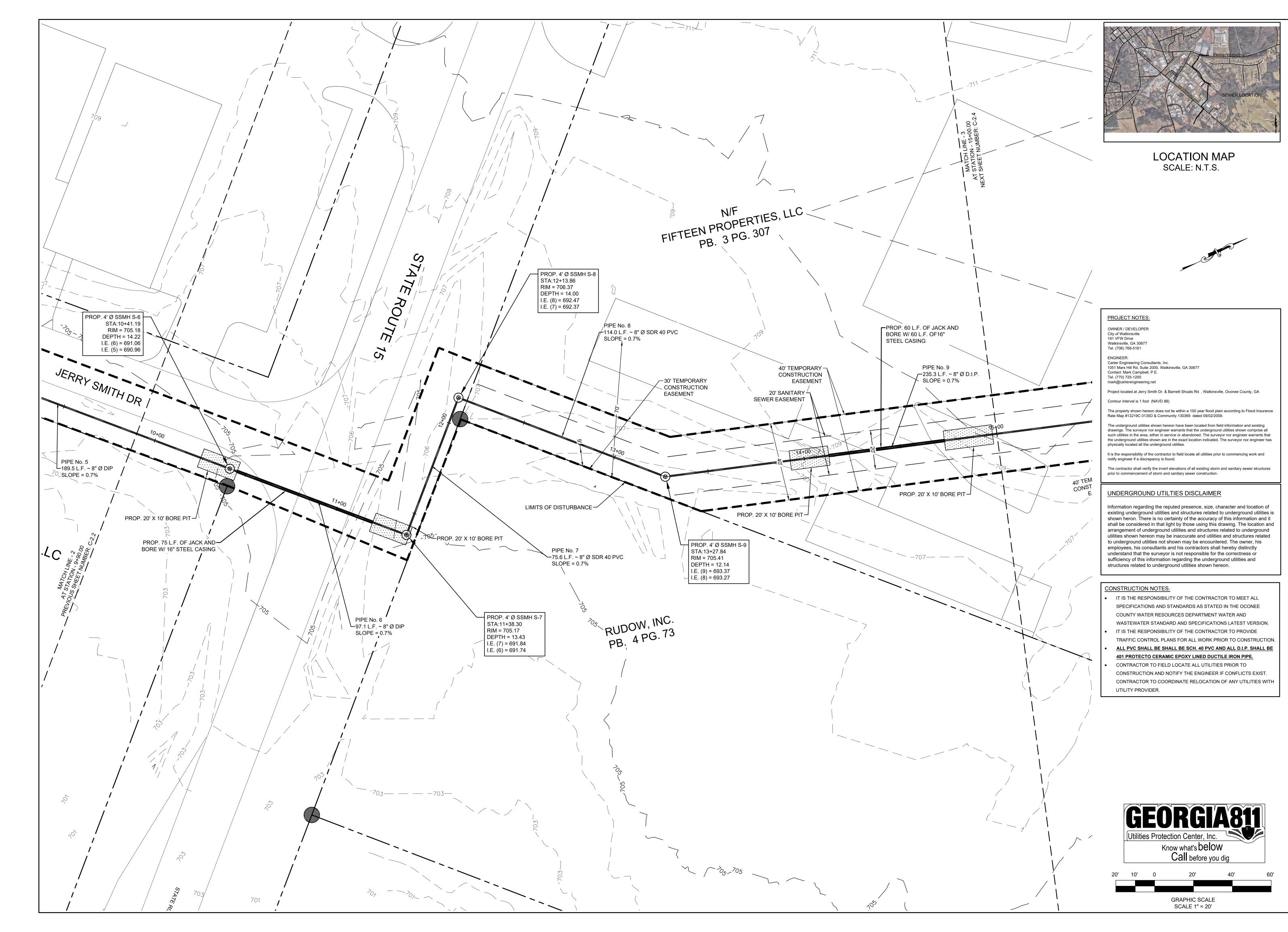
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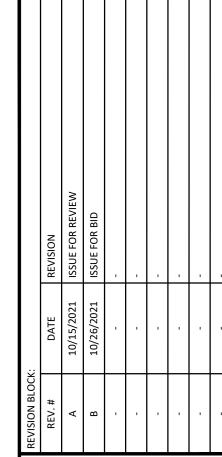
C-2.2

PROJECT NUMBER: SEWER A

10/26/21

GRAPHIC SCALE SCALE 1" = 20'









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## SEWER OF WAT > 0 SP

PROJECT NAME:

CITY OF WATKINSVILLE SEWER LINE A

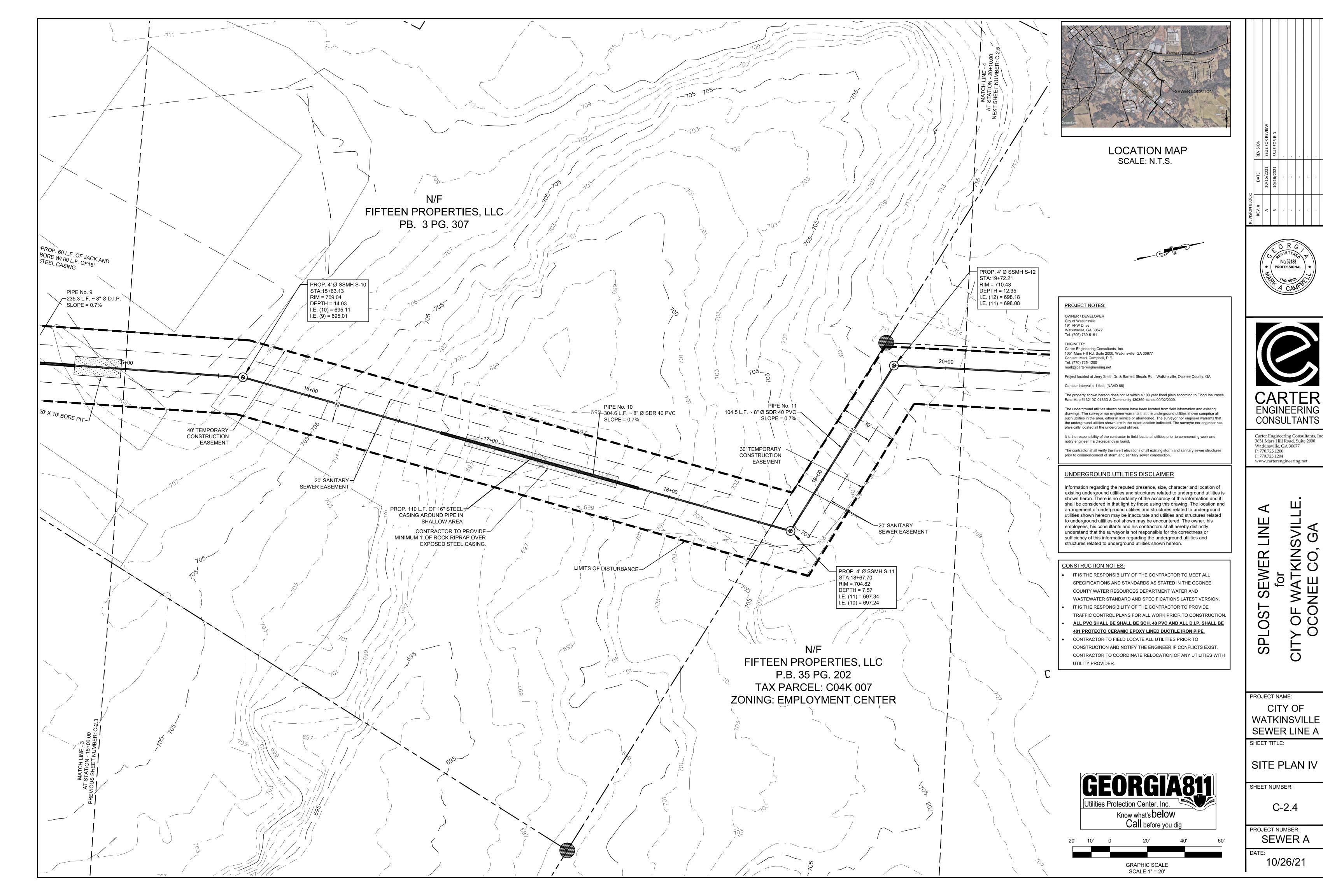
SITE PLAN III

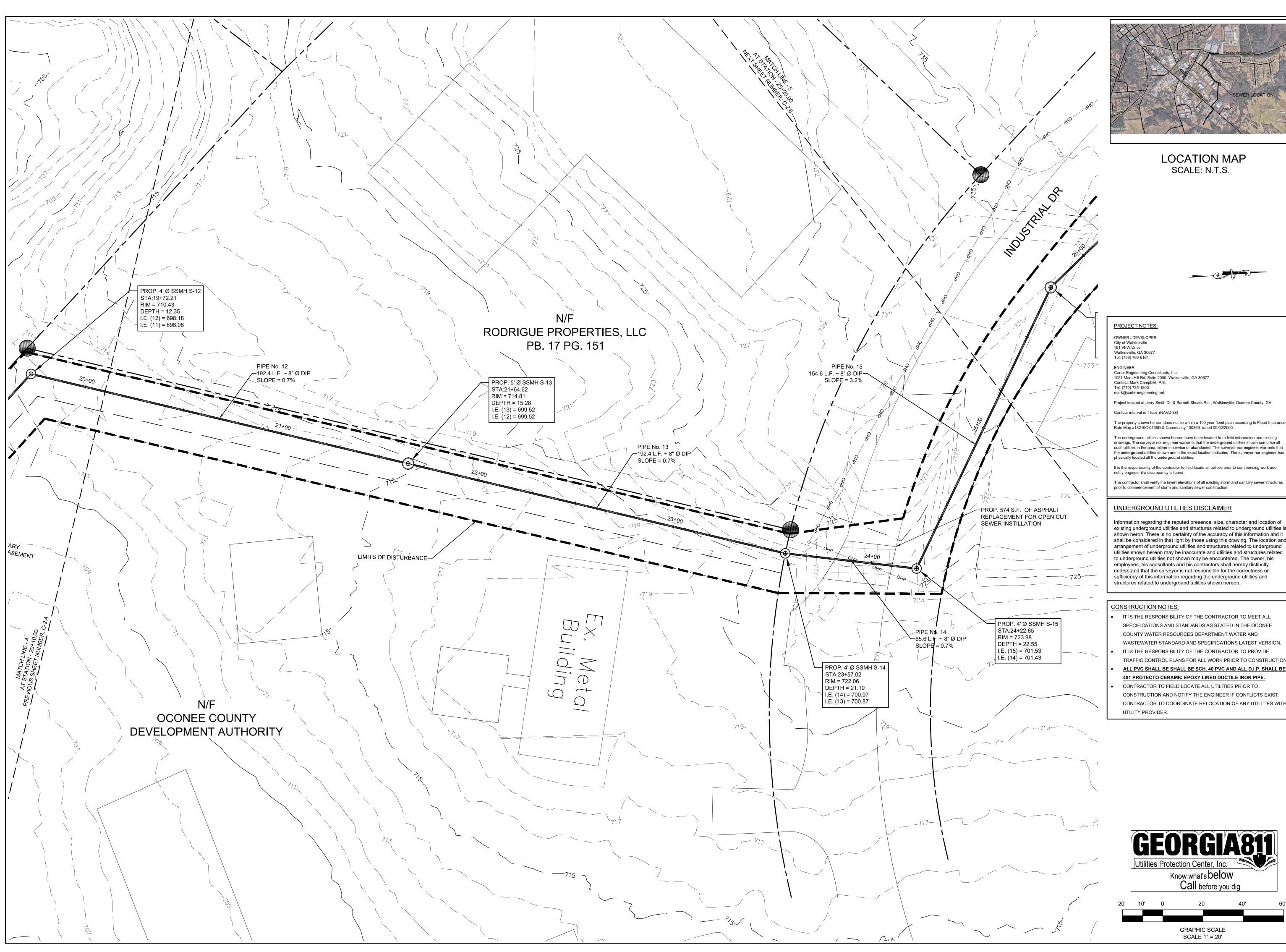
SHEET TITLE:

SHEET NUMBER:

C-2.3

PROJECT NUMBER: SEWER A









1051 Mars Hill Rd, Suite 2000, Watkinsville, GA 30677

Project located at Jerry Smith Dr. & Barnett Shoals Rd., Watkinsville, Oconee County, GA

The property shown hereon does not lie within a 100 year flood plain according to Flood Insurance

The underground utilities shown hereon have been located from field information and existing drawings. The surveyor nor engineer warrants that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor nor engineer warrants that

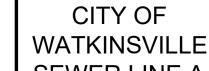
It is the responsibility of the contractor to field locate all utilities prior to commencing work and

The contractor shall verify the invert elevations of all existing storm and sanitary sewer structures

### UNDERGROUND UTILTIES DISCLAIMER

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PROJECT NAME:

SPL

SEWER LINE A SHEET TITLE:

Na 32188

CARTER

**ENGINEERING** 

**CONSULTANTS** 

Carter Engineering Consultants, Inc 3651 Mars Hill Road, Suite 2000

JSVILLE. , GA

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Y OF WAT OCONEE

Watkinsville, GA 30677

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LINE

SEWER

SITE PLAN V

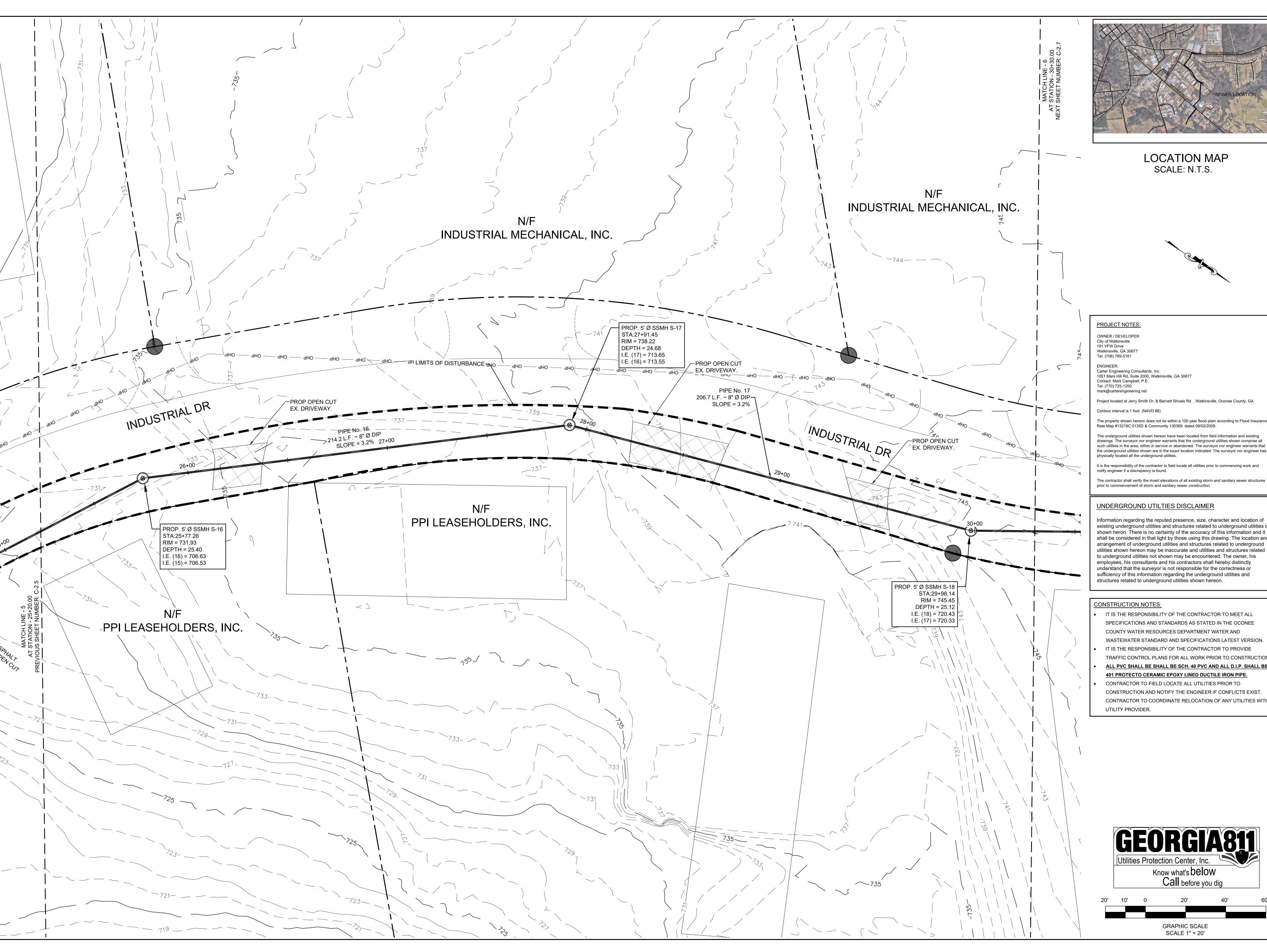
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C-2.5

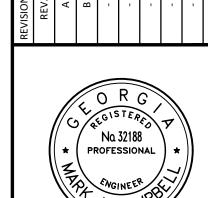
PROJECT NUMBER: SEWER A

10/26/21

GRAPHIC SCALE SCALE 1" = 20'







CARTER

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SEWER for

Project located at Jerry Smith Dr. & Barnett Shoals Rd., Watkinsville, Oconee County, GA

The property shown hereon does not lie within a 100 year flood plain according to Flood Insurance Rate Map #13219C 0135D & Community 130369 dated 09/02/2009.

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It is the responsibility of the contractor to field locate all utilities prior to commencing work and

prior to commencement of storm and sanitary sewer construction.

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PROJECT NAME:

SHEET TITLE:

SPL

CITY OF WATKINSVILLE SEWER LINE A

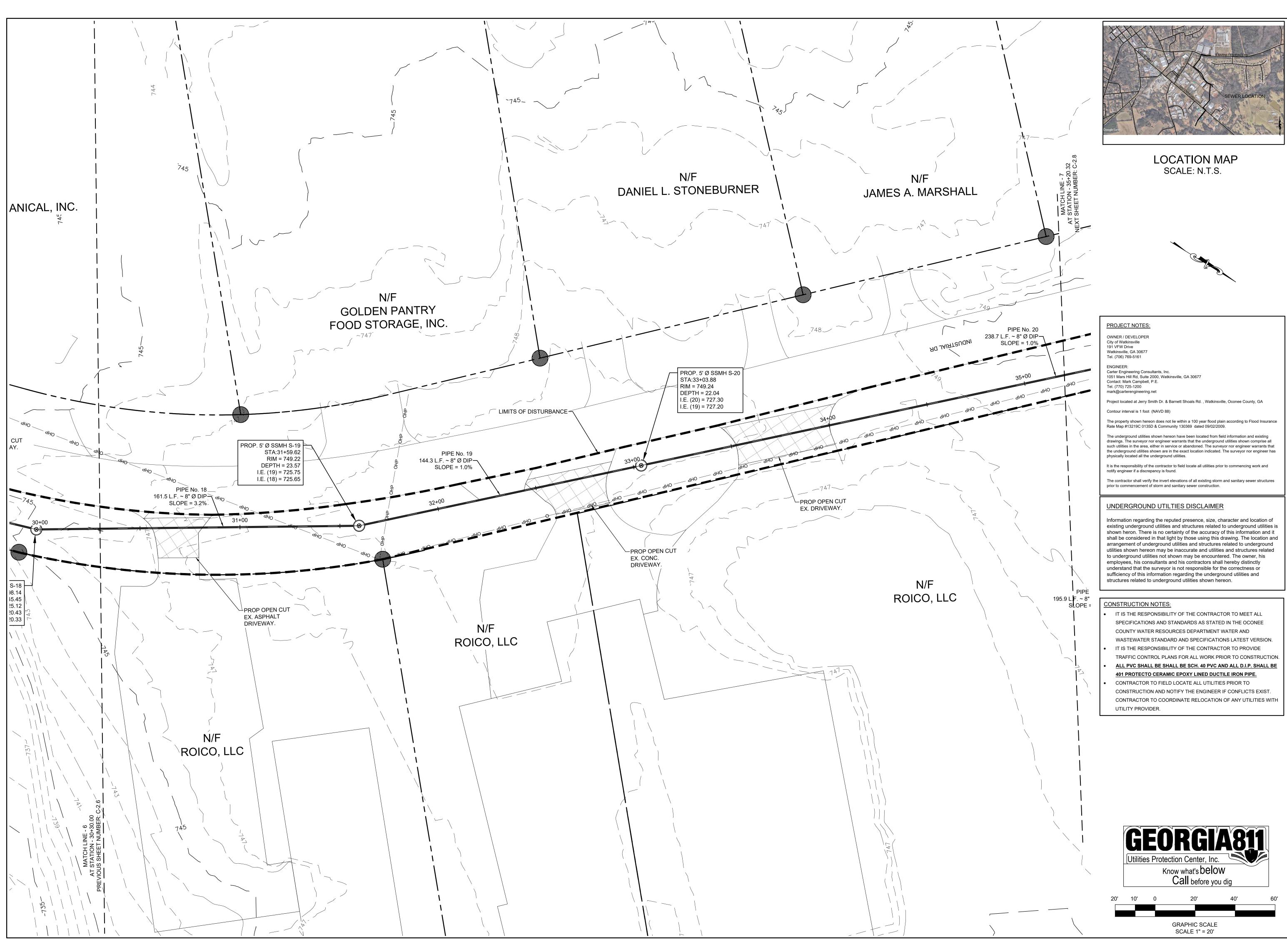
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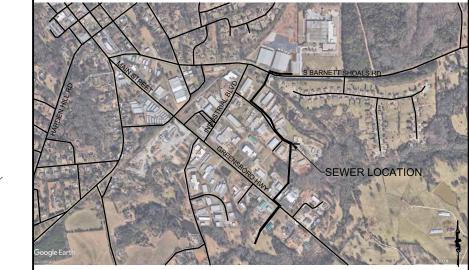
SITE PLAN VI

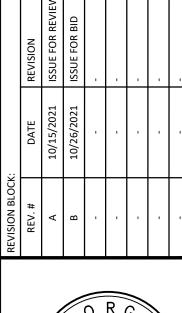
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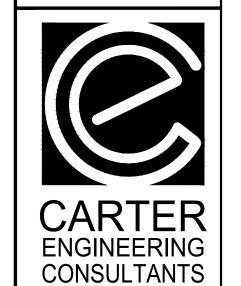
PROJECT NUMBER: SEWER A











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F: 770.725.1204 www.carterengineering.net

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PROJECT NAME:

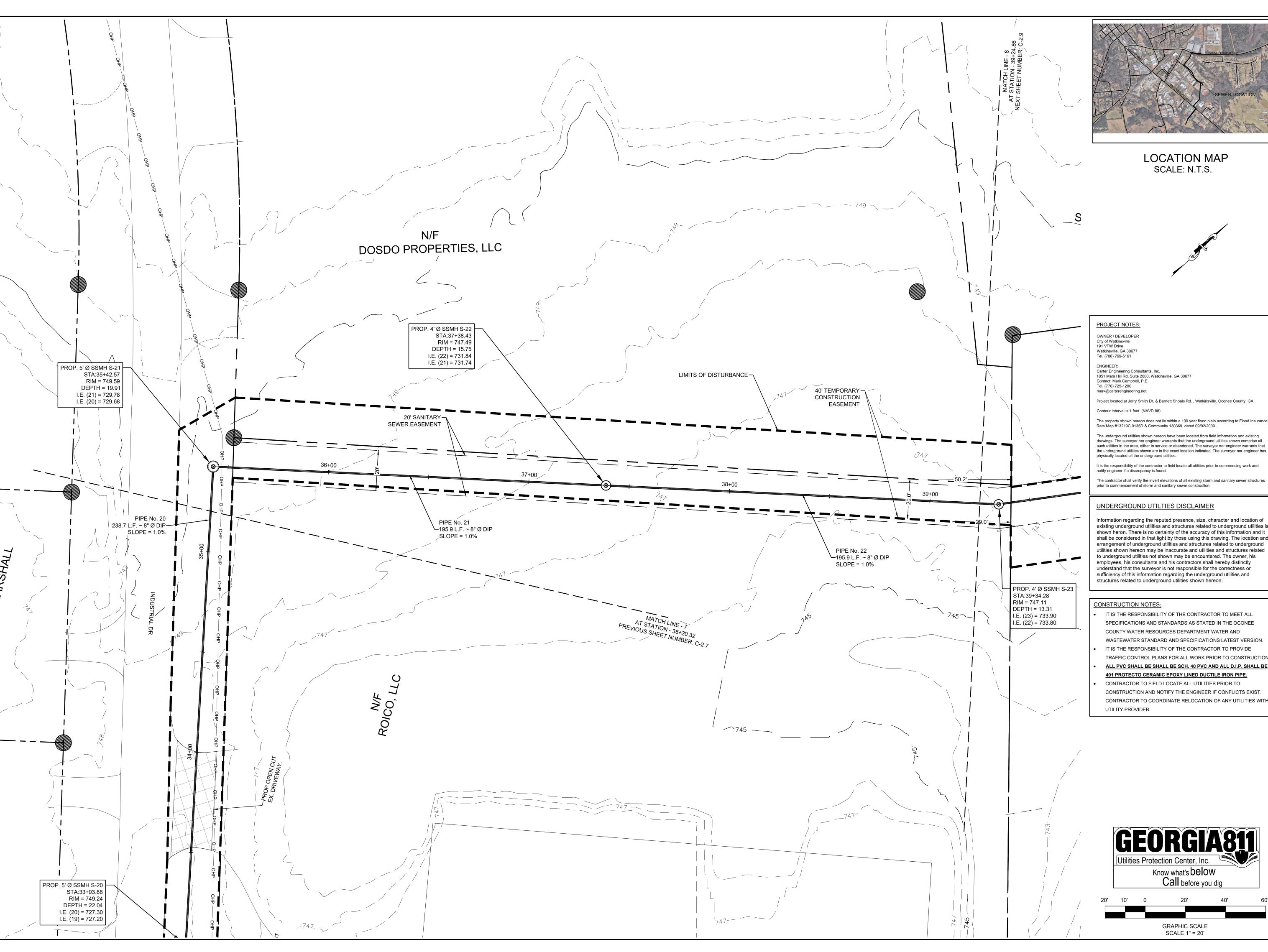
CITY OF WATKINSVILLE SEWER LINE A SHEET TITLE:

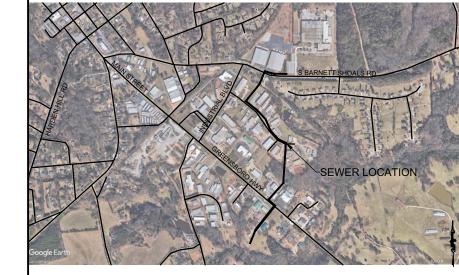
SITE PLAN VII

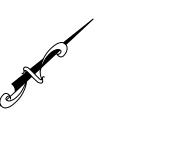
SHEET NUMBER:

C-2.7

PROJECT NUMBER: SEWER A







Project located at Jerry Smith Dr. & Barnett Shoals Rd., Watkinsville, Oconee County, GA

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It is the responsibility of the contractor to field locate all utilities prior to commencing work and

prior to commencement of storm and sanitary sewer construction.

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PROJECT NAME:

CITY OF WATKINSVILLE SEWER LINE A SHEET TITLE:

**ENGINEERING** 

CONSULTANTS

Carter Engineering Consultants, Inc 3651 Mars Hill Road, Suite 2000

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Watkinsville, GA 30677

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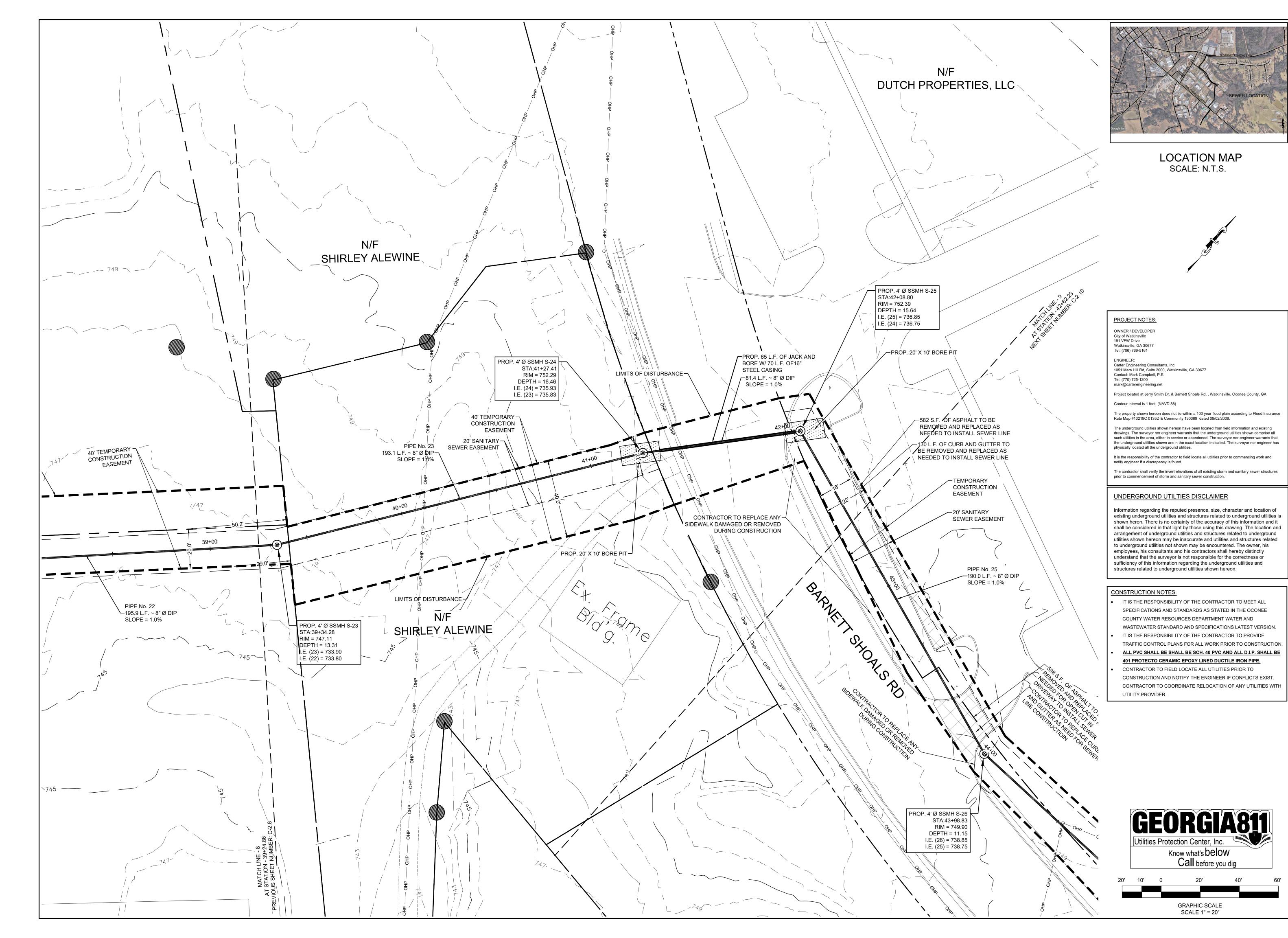
SPL

SITE PLAN VIII

SHEET NUMBER:

C-2.8

PROJECT NUMBER: SEWER A







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PROJECT NAME:

SHEET TITLE:

CITY OF WATKINSVILLE SEWER LINE A

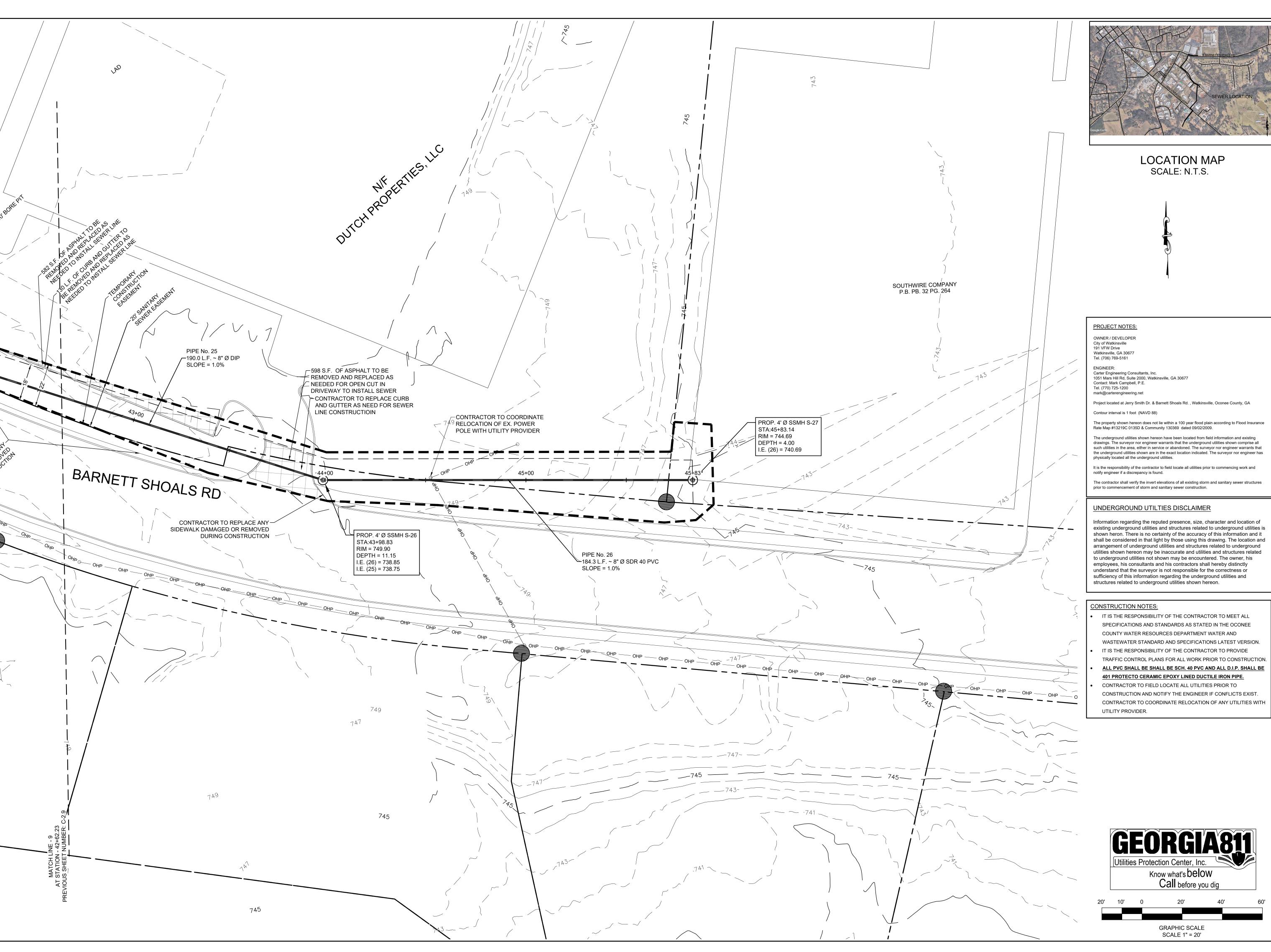
SITE PLAN IX

SHEET NUMBER:

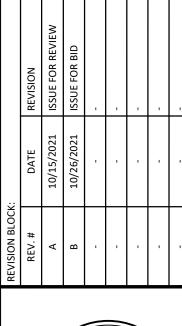
C-2.9

PROJECT NUMBER:

SEWER A











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SEWER X O > 0 SPL

PROJECT NAME: CITY OF WATKINSVILLE

SEWER LINE A SHEET TITLE:

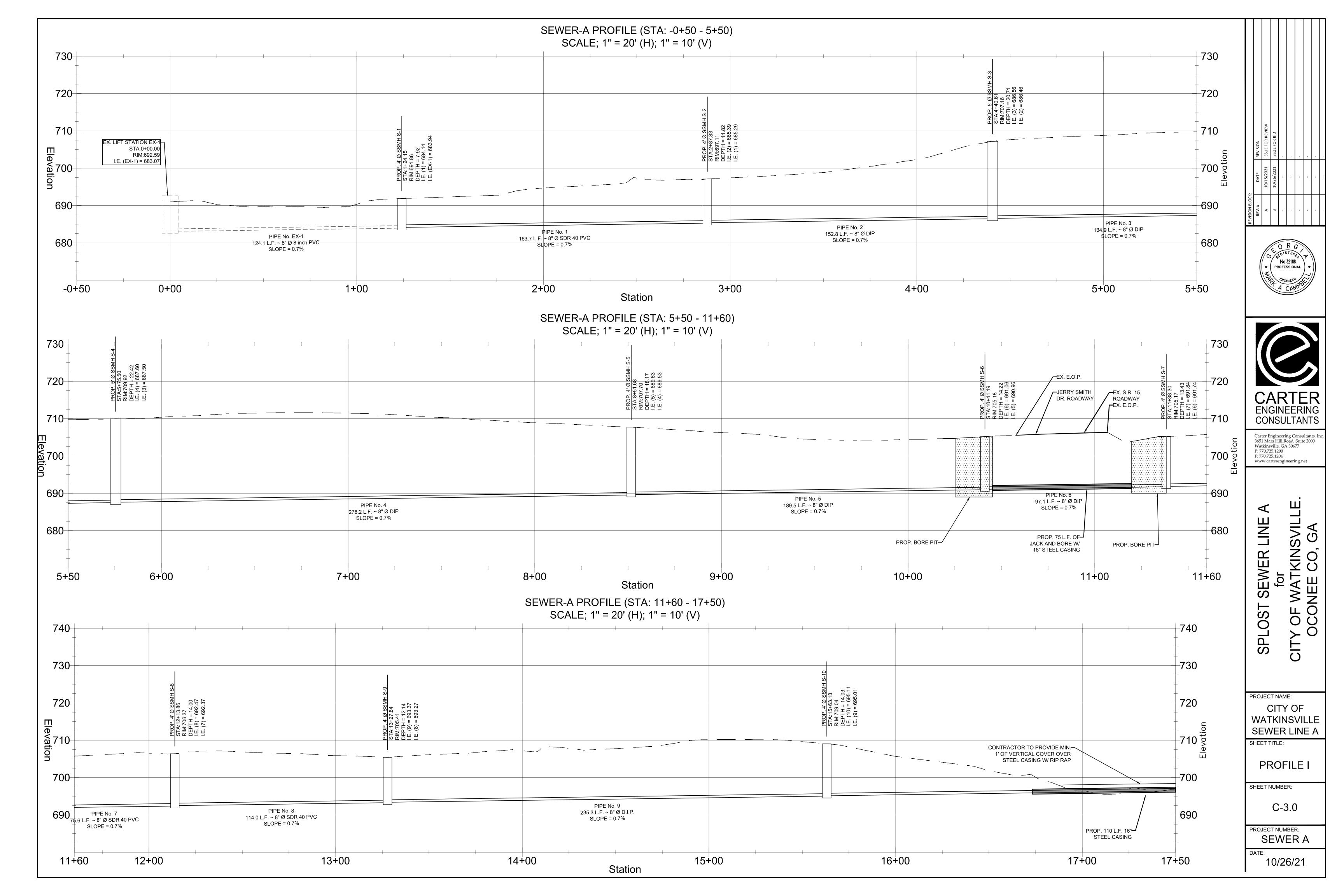
SITE PLAN X

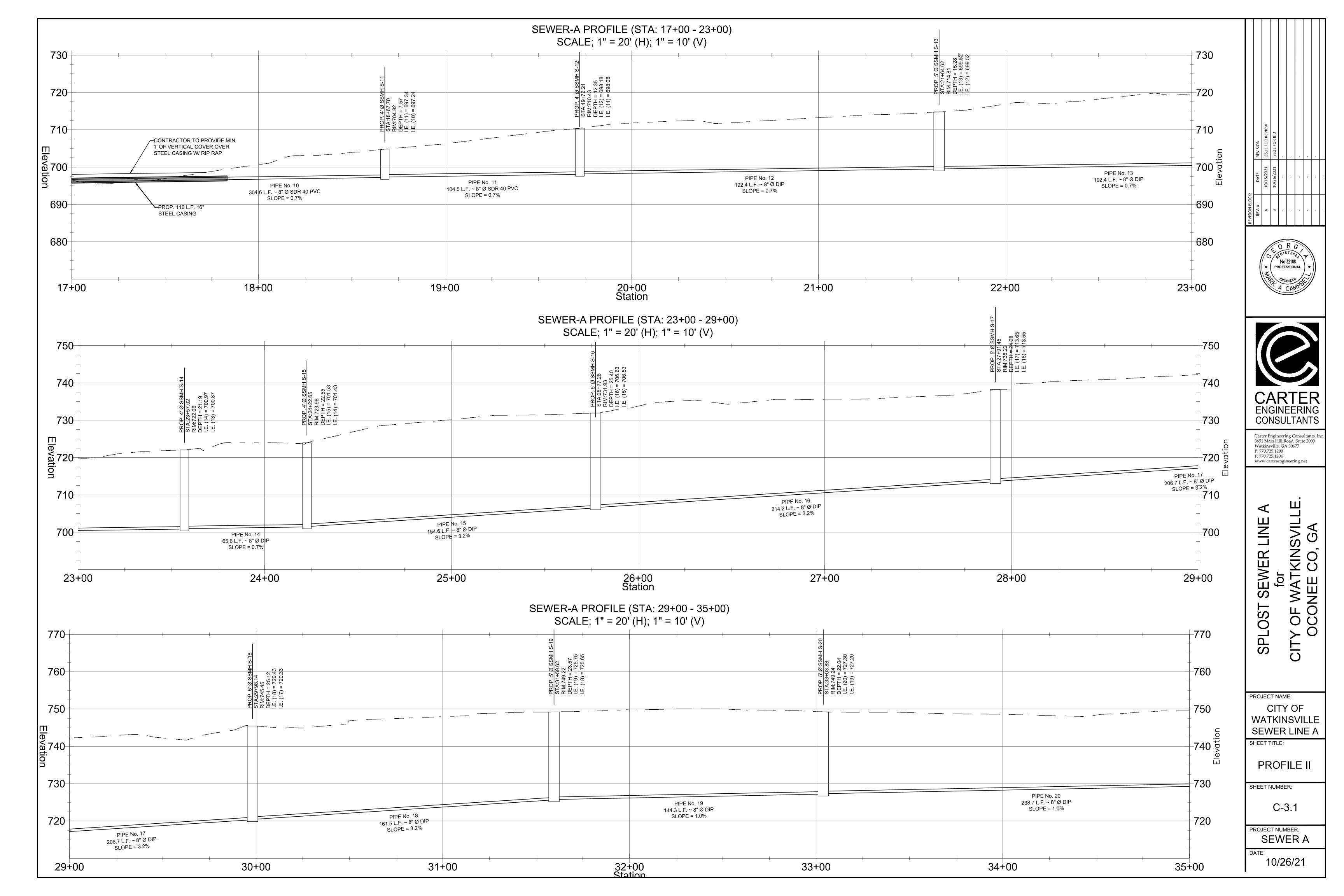
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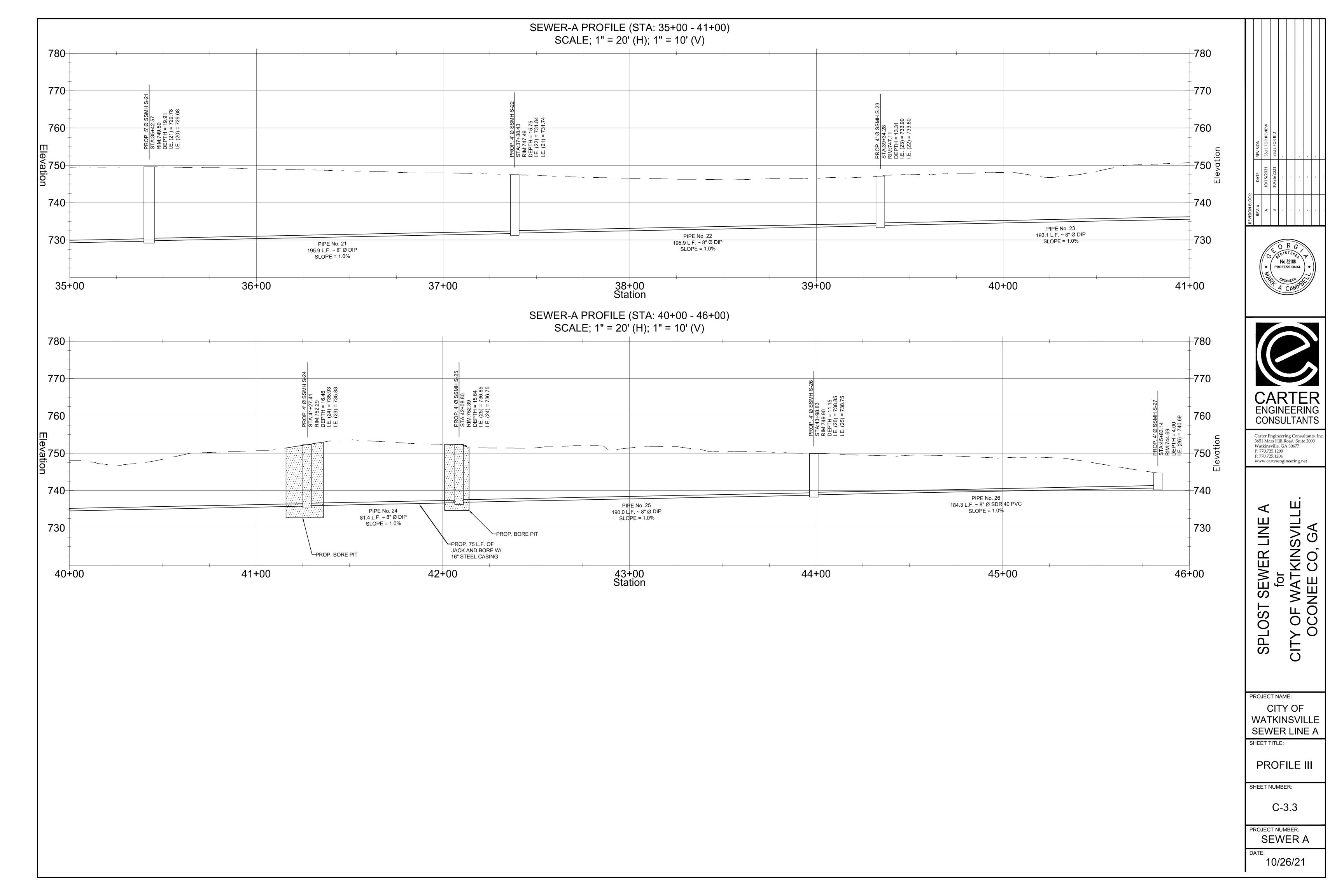
C-2.10

PROJECT NUMBER:

SEWER A







24 HOUR CONTACT ADAM LAYFIELD OCONEE COUNTY WATER RESOURCES 1291 GREENSBORO HWY, WATKINSVILLE, GA 30677 Phone: (706)-769-3960 Email: ALAYFÍELD.OCONEE.GA.US #4 PRIMARY PERMITTEE

ADAM LAYFIELD OCONEE COUNTY UTILITY DEPT. 1291 GREENSBORO HWY, WATKINSVILLE, GA 30677 Phone: (706)-769-3960 Email: ALAYFÍELD.OCONEE.GA.US

#5 Total Site Area: 3.68 ACRES, Total Disturbed Area: 3.68 ACRES

 $\mid$  #6 GPS Location of the beginning and end of the project: Start: 33.850517, -83.400261End: 33.859103, -83.396636

#7 See title block information at the top right corner of this sheet for the project date and revision

#8 DESCRIPTION OF THE CONSTRUCTION ACTIVITY

The project area is comprised of existing commercial infrastrucure. The proposed project will remove and replace any concrete or asphalt drives or roadways in the limits of disturbance for the proposed sewer line. This project DOES NOT include the addition of stormwater facility to treat and detain the proposed

#10 PROJECT RECEIVING WATERS

The receiving waters for this project is an UNNAMED TRIBUTARY TO PORTER CREEK

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION

MARK CAMPBELL, P.E. P.E.# 32188

**E&SC CERTIFICATION NUMBER 0000045579** 

# 13

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO GAR 100001."

MARK CAMPBELL, P.E. P.E.# 32188

E&SC CERTIFICATION NUMBER 0000045579

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS

MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND #16 Buffer Encroachments

THERE ARE **NO** BUFFERS THAT WILL BE IMPACTED AS PART OF THIS PROJECT. THEREFORE, **NO** VARIANCES HAVE BEEN

Contractor will be responsible for seeing that these procedures are followed.

#17 AMENDMENT/REVISION STATEMENT AMENDMENTS/ REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC

COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

#18WASTE MATERIAL STATEMENT WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the

All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the jobsite will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific

information in the applicable MSDS for the product he/she is using. particularly regarding spill control techniques.

The contactor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measure in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

### Sanitary Wastes

Waste Materials

A minimum of one portable sanitary unit will be provided from every ten (10) workers on the site. All sanitary waste will be collected form the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in one area where the likelihood of the unit contribution to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes form contribution to storm water discharges. The location of sanitary waste units must be identified on the Erosion Control Plan by the contractor once the locations have been determined.

#19

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

TEMPORARY SEEDING

ALL DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAT 14 DAYS SHALL BE STABILIZED WITH MULCH OR

#22 IMPAIRED STREAM SEGMENT

CONSTRUCTION ACTIVITY DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT. THE CONSTRUCTION ACTIVITY IS NOT WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM

THIS PROJECT DOES NOT ALLOW CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND REAR OF THE VEHICLES ON THE PROJECT SITE. THESE ACTIONS ARE ONLY ALLOWED AT SPECIFIED LOCATIONS

Petroleum Based Products - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Paints/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and

Concrete Truck Washing — Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite at the specified location.

Fertilizer/Herbicides — These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCG Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed

Building materials — No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

Spill Cleanup and Control Practices

Local, State, and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel. Material and equipment, necessary of spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to, brooms, dustpans, maps, rags, gloves, goggles, cat

litter, sand, sawdust and properly labeled plastic and metal waste containers. Split prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills. - All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.

- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 - 800 -426 - 2675. - FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1 - 800 - 425 -2675 - FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS. THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. -FOR SPILLS LESS THAT 25 GALLONS AND NO SURFACE WATER IMPACTS. THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of OIL is stored onsite (this includes capacities of equipment). The Contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

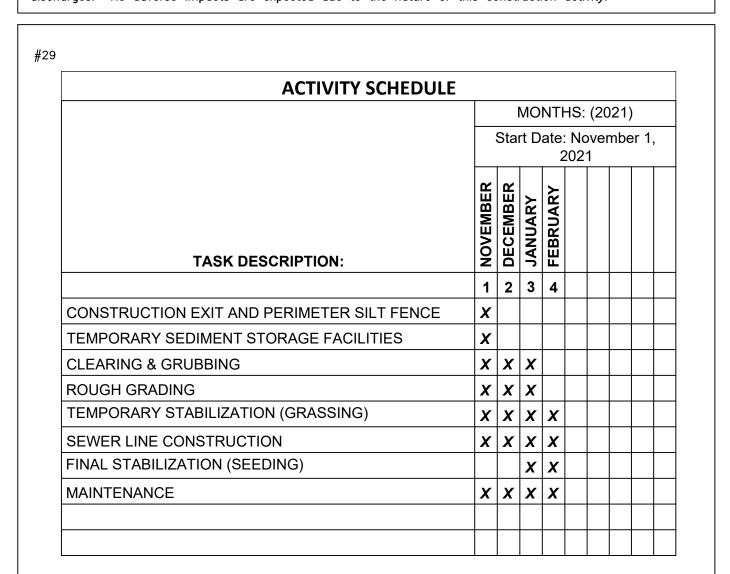
#26 POLLUTANT CONTROL AFTER CONSTRUCTION IS COMPLETED

No post storm water pollutants are anticipated. All disturbed areas will be permanently stabilized once construction activity is completed.

27 COVER FOR BUILDING MATERIALS

The contractor shall locate all building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary wastes, and other materials in a location free from stormwater runoff. In addition, the contractor shall protect these materials from precipitation by covering with plastic sheeting or a temporary roof throughout the duration of the construction period.

The proposed silt fence and sediment inlet traps are proposed to help reduce pollutants in storm water discharges. No adverse impacts are expected due to the nature of this construction activity.



### #30 INSPECTIONS

a. Primary Permittee Requirements

until a Notice of Termination is submitted.

- ). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each 24 hour period at the site. These inspections must be conducted until a Notice of Termination is
- ). Measure rainfall once every 24 hours except any non—working Saturday, non—working Sunday and non—working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have ndergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
- 3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federa holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) greas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.a.(3). These inspections must be conducted
- 1). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). ). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later
- than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. ). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and action s taken in accordance with Part IV.D.4.a.(4). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and

Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit.

#### #31 SAMPLING FREQUENCY

(1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permitee shall sample at the beginning of any storm after discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible. (2) However, where manual and automatic sampling are impossible (as defined in the is permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no cease more than twelve (12) hours after the beginning of the storm water discharge.

(3) Sampling by the permittee shall occur for the following qualifying events: (a) For each area of the site that discharges to a receiving water or form an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business house as defined in this permit \* (Monday thru Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM when construction activity is being conducted by the Primary permittee) after all clearing and grubbing operations have beei completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling locaiton: (b) In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or

exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed but prior to submittal of a NOT, in the drainage area of the locaiton selected as the sampling location, whichever comes first. (c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that dischargers to a receiving water or from an outfall area not properly designed, installed and maintained, corrective action shall be defined and implemented with tow (2) business days, and turbidity samples shall be taken from discharges form that area of the site for each subsequent rain event that reaches of exceeds 0.5 inch durning normal business hours \* until the selected turbidity standard is attained, or until post—storm event inspections determine that BMPs are properly

(d) Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D4.a(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of a any subsequent sampling obligations under (a), (b), or (c) above; and (e) Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above. \*NOTE that the permitte may choose to meet the rquirement of (a) and (b) above by collecting turbidity samples from any rain event that reaches or

. The applicable permittees are required to submit a summary of the monitoring results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

- 2. All sampling reports shall include the following information: a. The rainfall amount, date, exact place, and time of sampling or measurements:
- b. The name(s) of the certified personnel who performed the sampling and measurements; c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- . References and written procedures, when available, for the analytical techniques or methods used; and g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results. . Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU." and

Certification statement that sampling was conducted as per the Plan. 3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If electronic submittal is provided by EPD then the written correspondence may be submitted electronically;

. The primary permittee shall retain the following records at the construction site or the records shall be readily available at the designated alternate location from commencement of construction until such time as a NOT is Submitted in accordance with Part VI: a. A copy of all Notices of Intent submitted to EPD:

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit; c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;

e. A copy of all inspection reports generated in accordance with Part IV.D.4.a of this permit f. A copy of all violation summaries and violation report generated in accordance with Part III.D.2. olf this permit; and

q. Daily rainfall information collected in accordance with Part IV.D.4.aw.(2) of this permit.

if required, a paper copy must also be submitted by return receipt certified mail or similar service.

2. Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and naintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, Tertiary Erosion Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the site is finally stabilized. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

#### #33 STORMWATER SAMPLING

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document. EPA 833-B-92-001."

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 75, the value that was selected from Appendix B in Permit No. GAR 1000001. The NTU s based upon the disturbed acreage of 3.68 ACRES for the project site, the surface water drainage area of <1.0 square miles, and receiving water which supports warm water fisheries

All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Port 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Wate

Per NPDES Permit, GAR 100001, "Sample containers should be labeled prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. Large mouth, well-cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleansed thoroughly to avoid contamination. Manual, automatic or rising stage sampling may be utilized.

#34 SAMPLING POINTS AND NTU REQUIREMENTS

### **APPENDIX B**

### **Nephelometric Turbidity Unit (NTU) TABLES**

### Cold Water (Trout Stream)

Surface Water Drainage Area, square miles

		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
10.01 Site Size, acres 25.01 50.01	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
	25.01-50	25	25	25	50	75	100	300	500
	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100
	25.01-50 50.01-100	25 20	25 25	25 25	50 35	75 59	100 75	300 150	5( 3(

### Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

			Surface	vvater Draine	age Alea, squ	iale IIIIles			
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	75	150	200	400	750	750	750	750
=	10.01-25	50	100	100	200	300	500	750	750
site Size, acres	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

# 41 & 42 STATE WATERS BUFFER

THERE ARE STATE WATERS LOCATED ON OR WITHIN 200FT OF THE PROJECT SITE AND THEY ARE SHOWN ON PLANS WITH THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS.

#45 PEAK DISCHARGE FLOW

Peak 100 year storm flow from the site prior to construction is ### CFS Peak 100 year storm flow from the site after construction is completed is ### CFS.

Mapping				Erodibility	Permeabilit
Unit	Soil Name	Texture	Structure	(k)	(in/hr)
Cob	Chewacla Soils	Sandy Loam	Granular	0.15	1.98
CYB2	Cecil Sandy Loam	Clay Loam	Granular	0.15	1.98
CYC2	Cecil Sandy Loam	Clay Loam	Granular	0.15	1.98
PgC3	Pacolet Sandy Clay Loam	Sandy Loam	Granular	0.15	1.98
	Unit Cob CYB2 CYC2	Unit Soil Name  Cob Chewacla Soils  CYB2 Cecil Sandy Loam  CYC2 Cecil Sandy Loam	Unit     Soil Name     Texture       Cob     Chewacla Soils     Sandy Loam       CYB2     Cecil Sandy Loam     Clay Loam       CYC2     Cecil Sandy Loam     Clay Loam	UnitSoil NameTextureStructureCobChewacla SoilsSandy LoamGranularCYB2Cecil Sandy LoamClay LoamGranularCYC2Cecil Sandy LoamClay LoamGranular	UnitSoil NameTextureStructure(k)CobChewacla SoilsSandy LoamGranular0.15CYB2Cecil Sandy LoamClay LoamGranular0.15CYC2Cecil Sandy LoamClay LoamGranular0.15

### **EROSION. SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST**

INFRASTRUCTURE CONSTRUCTION PROJECTS SWCD: OCONEE COUNTY Project Name: SEWER LINE A

1291 GREENSBORO HWY, WATKINSVILLE, City/County: OCONEE COUNTY Name & email of person filling out checklist: Plan Included

TO BE SHOWN ON ES&PC PLAN 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1

C-4.0 Y of the year in which the land-disturbing activity was permitted (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed) 3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls. 4 Provide the name, address, email address, and phone number of primary permittee.

5 Note total and disturbed acreages of the project or phase under construction. 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in

7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate

8 Descriptions of the nature of construction activity and existing site conditions. 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas,

wetlands, marshlands, etc. which may be affected. C-4.0 Y 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.

and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. \* 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. \* C-4.0 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the

initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5 page 26 of the permit. \* 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."

16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a

Section 404 permit." \*

19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." C-4.0 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented

to control or treat the sediment source." C-4.0 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." C-4.0 Y 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream

permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. \* C-4.0 Y 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or

requirements included in the TMDL Implementation Plan. \* C-4.0 Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. \* 25 Provide BMPs for the remediation of all petroleum spills and leaks.

of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the

26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. \* Y 27 Description of practices to provide cover for building materials and building products on site. \* Y 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. \*

C-4.0 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

30 Provide complete requirements of Inspections and record keeping by the primary permittee. C-4.0 Y 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. \* C-4.0 Y 32 Provide complete details for Retention of Records as per Part IV.F. of the permit. \* Y 33 Description of analytical methods to be used to collect and analyze the samples from each location.

C-4.0 Y 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. \* 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. \* C-4.1 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial

sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single

C-4.1 Y 37 Graphic scale and North arrow. C-4.0 Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1": 2000' Topographical Sheets
Proposed Contours 1": 400' Centerline Profile

NA 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. NA 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for

Erosion & Sediment Control in Georgia 2016 Edition. \* C-4.1 Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

43 Delineation and acreage of contributing drainage basins on the project site. Y 44 Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets. 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

Y 47 Soil series for the project site and their delineation. C-4.1 Y 48 The limits of disturbance for each phase of construction.

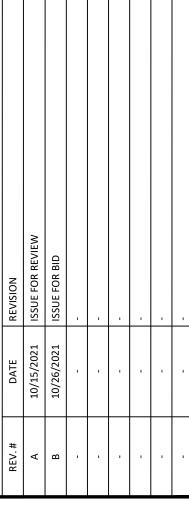
49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from

the surface are not feasible, a written justification explaining this decision must be included in the Plan. C-4.1 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in

the Manual for Erosion and Sediment Control in Georgia. C-4.5 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

\* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the \* checklist items would be N/A.

Effective January 1, 2021







Carter Engineering Consultants, Inc 3651 Mars Hill Road, Suite 2000 Watkinsville, GA 30677 P: 770.725.1200 F: 770.725.1204

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PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A

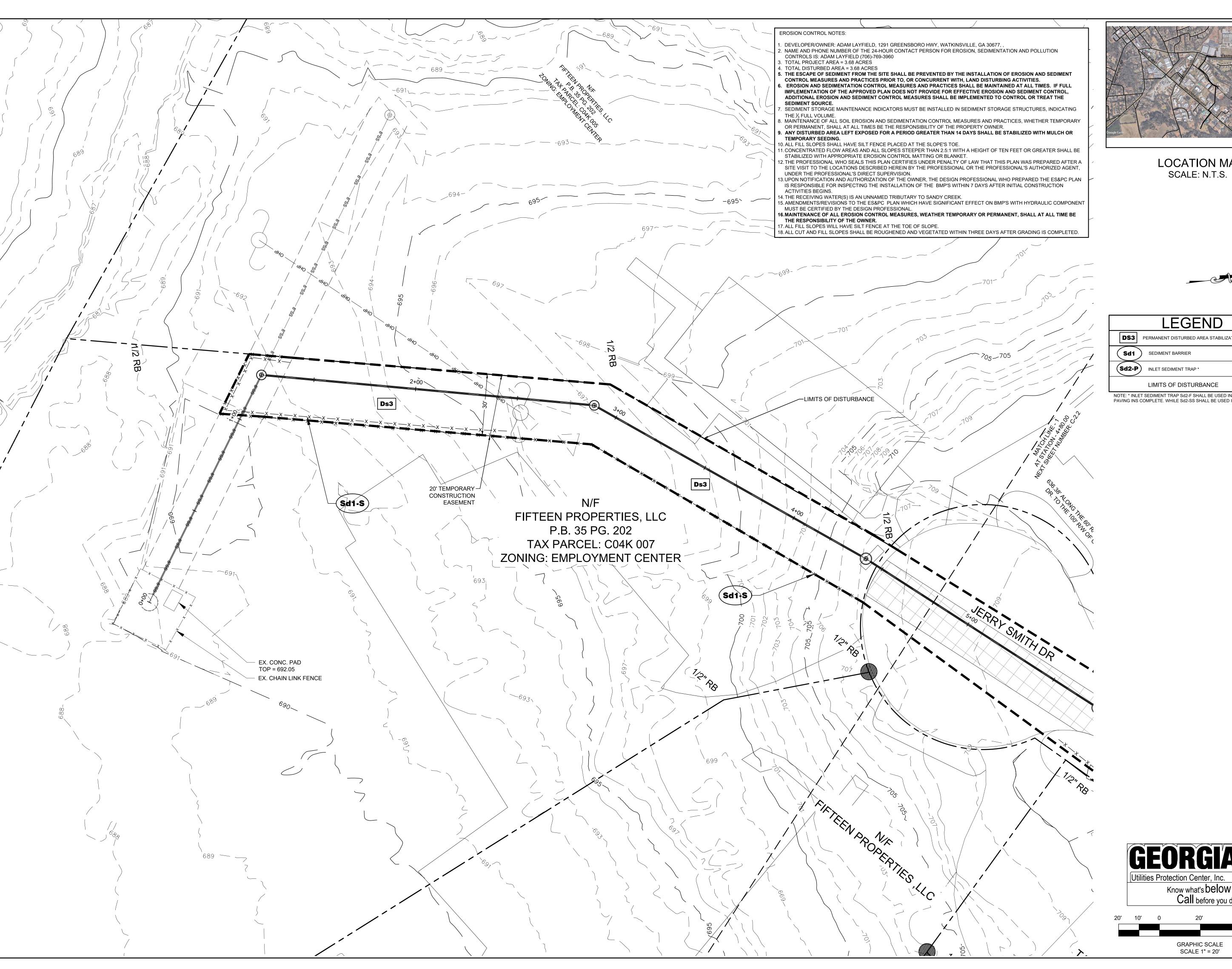
**EROSION** CONTROL NOTES

SHEET NUMBER:

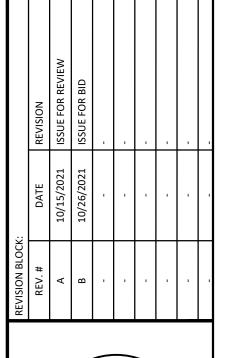
SEWER A

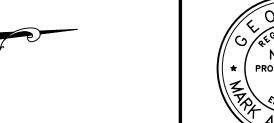
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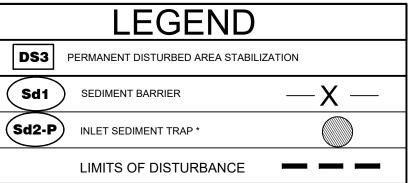
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NOTE: \* INLET SEDIMENT TRAP Sd2-F SHALL BE USED IN NON PAVED ARES UNTIL PAVING INS COMPLETE. WHILE Sd2-SS SHALL BE USED IN AREAS THAT IS PAVED.

Know what's below Call before you dig

GRAPHIC SCALE SCALE 1" = 20'



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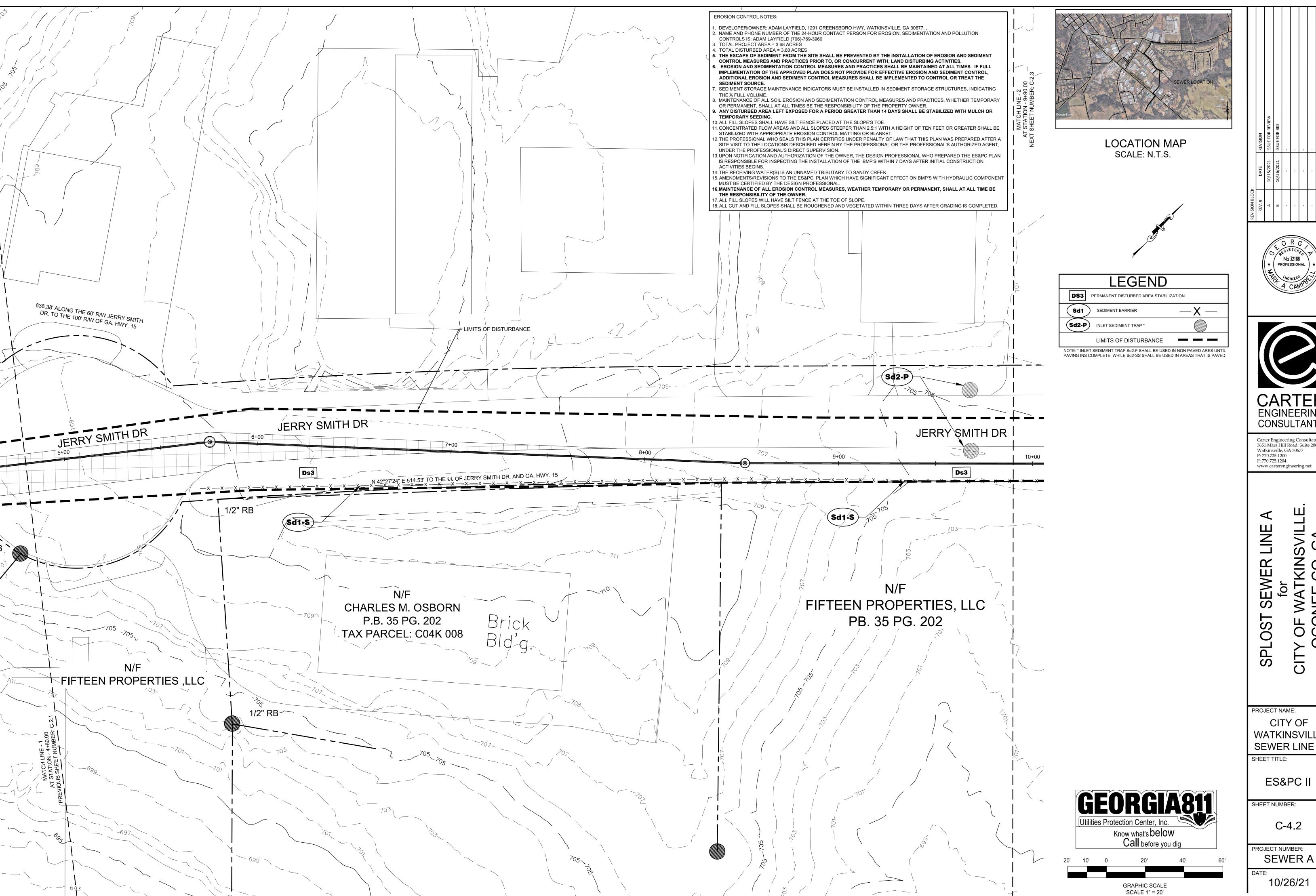
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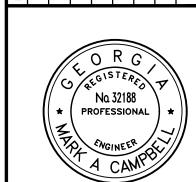
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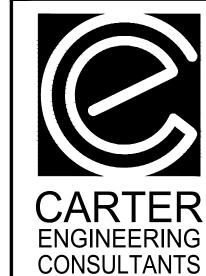
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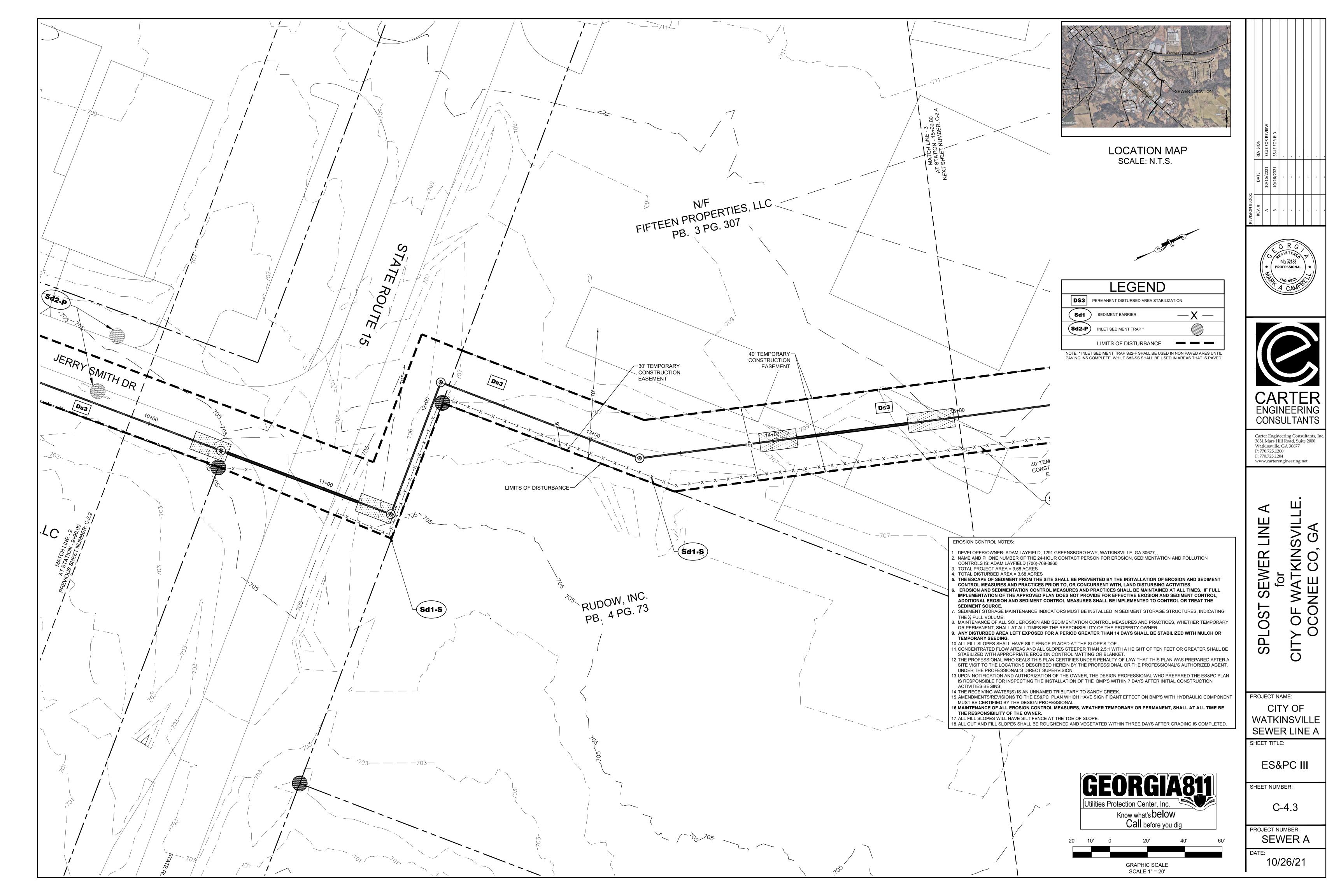
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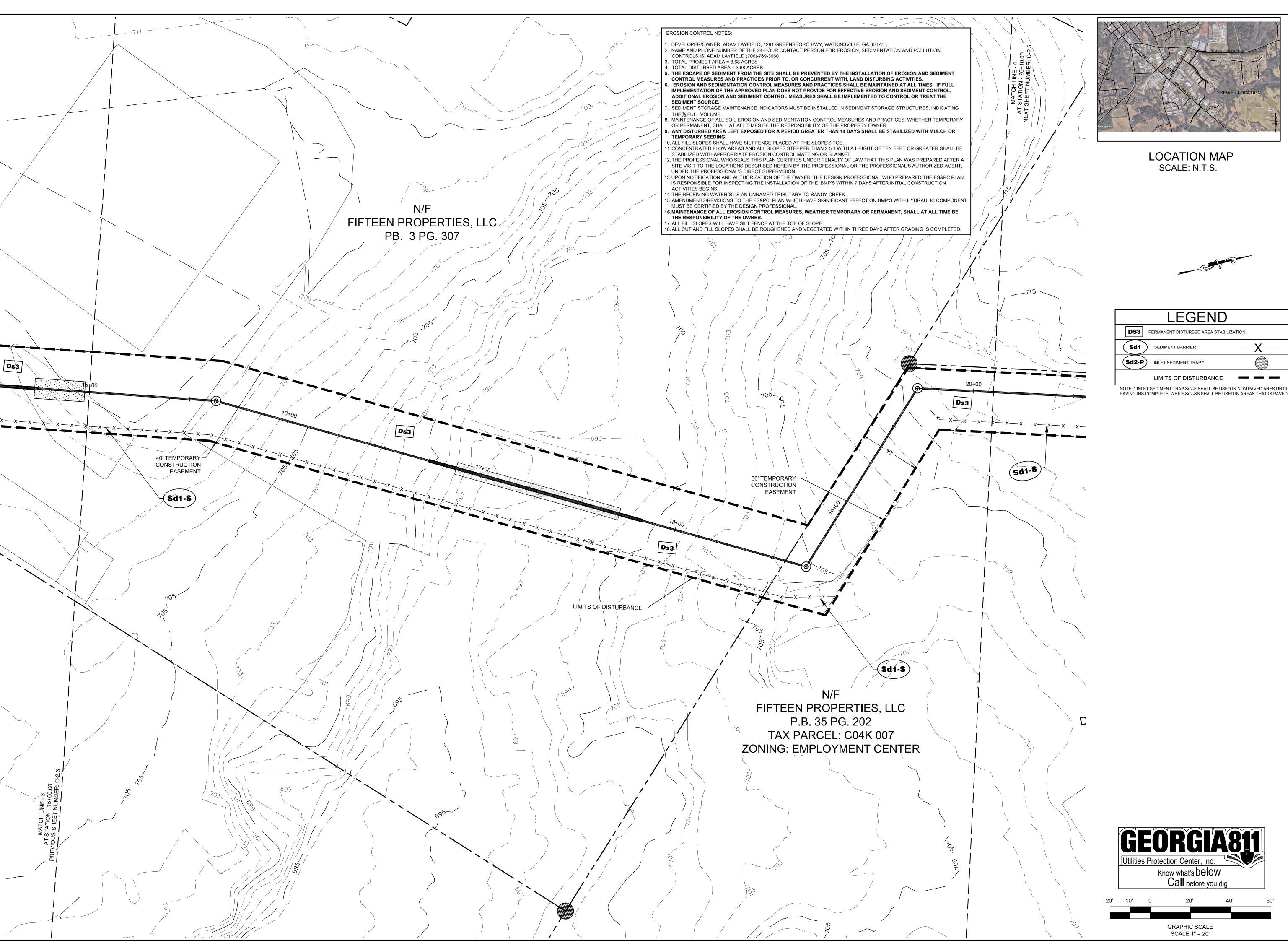
P: 770.725.1200 F: 770.725.1204 www.carterengineering.net

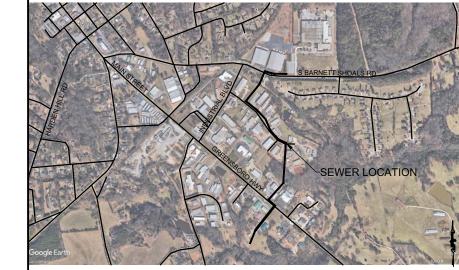
PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A

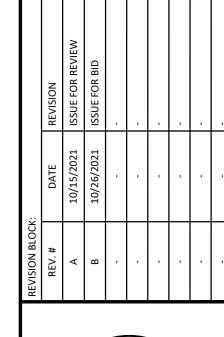
ES&PC II

PROJECT NUMBER:











**DS3** PERMANENT DISTURBED AREA STABILIZATION

NOTE: \* INLET SEDIMENT TRAP Sd2-F SHALL BE USED IN NON PAVED ARES UNTIL



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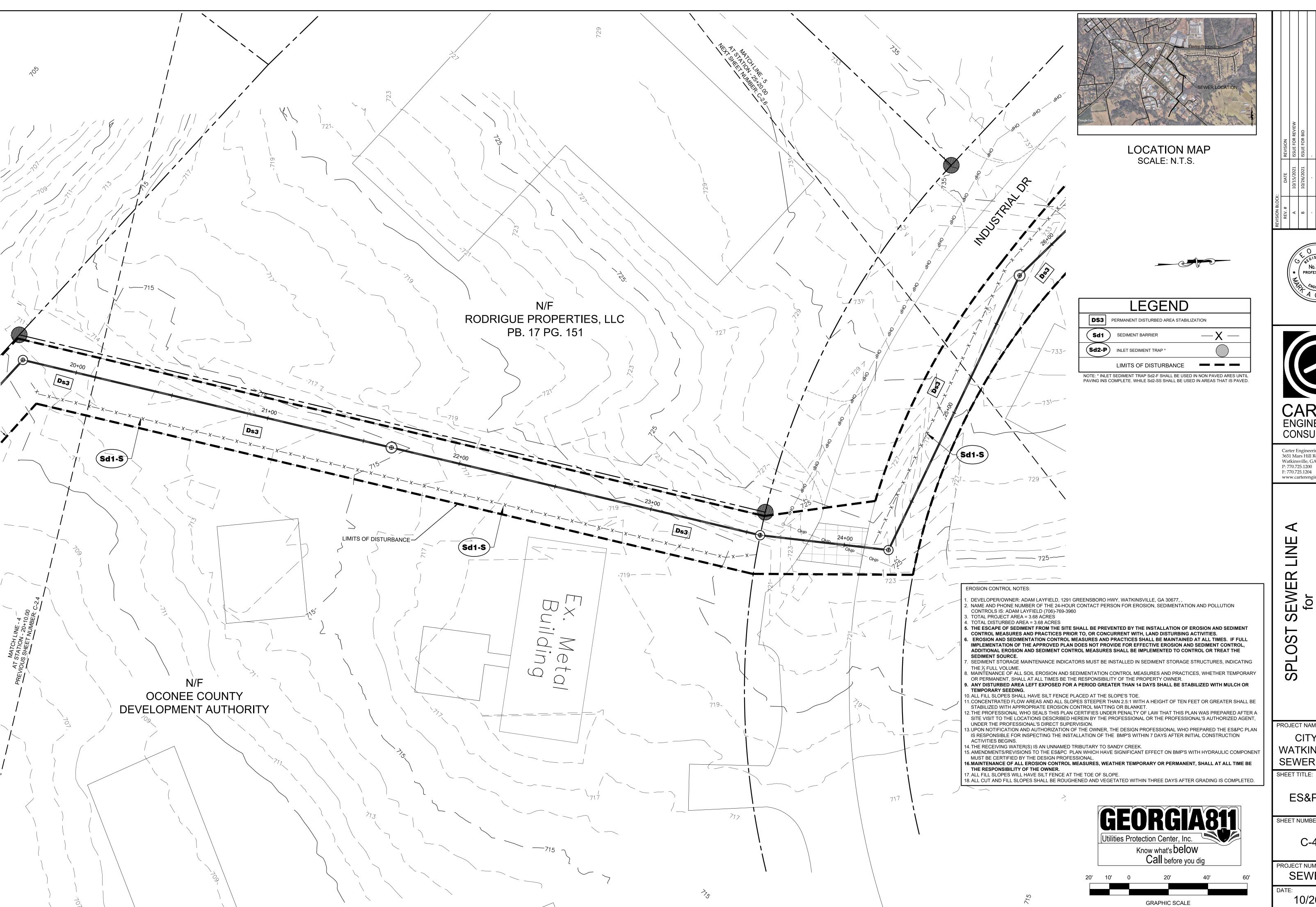
PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A SHEET TITLE:

ES&PC IV

SHEET NUMBER:

C-4.4

PROJECT NUMBER: SEWER A







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Y OF WAT OCONEE

PROJECT NAME:

CITY OF WATKINSVILLE SEWER LINE A

ES&PC V

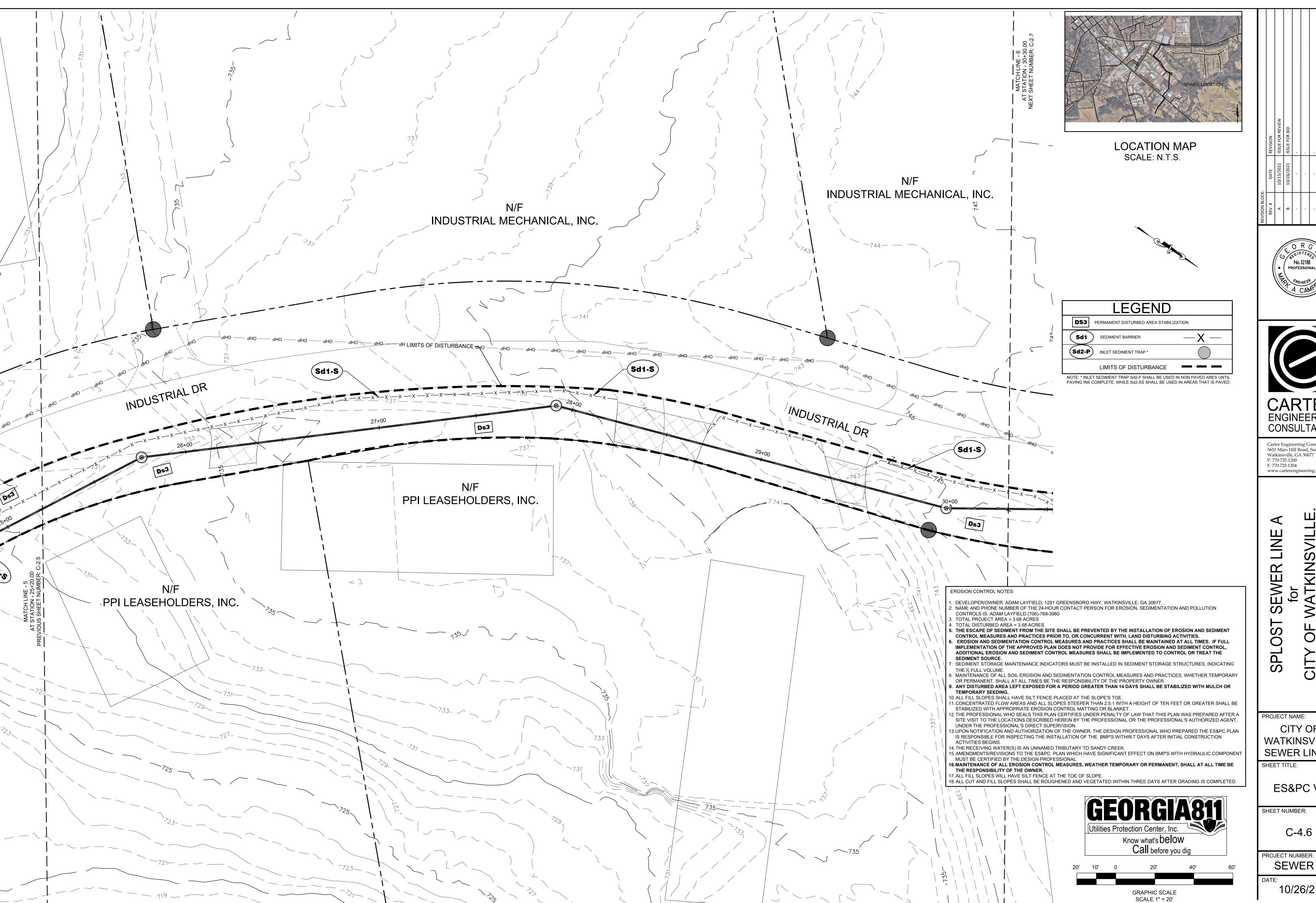
SHEET NUMBER:

C-4.5

PROJECT NUMBER: SEWER A

10/26/21

SCALE 1" = 20'







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Y OF WA

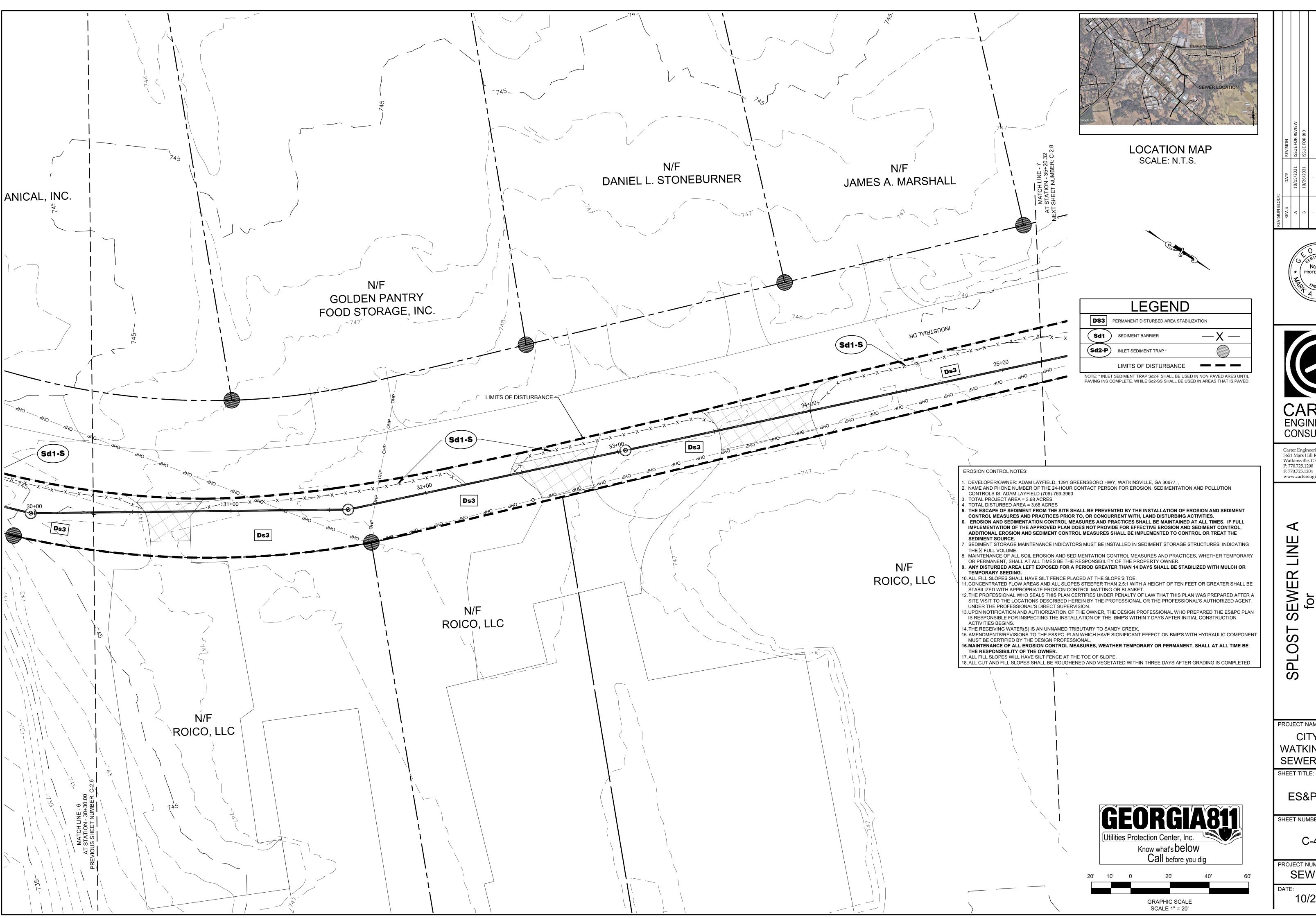
CITY OF WATKINSVILLE

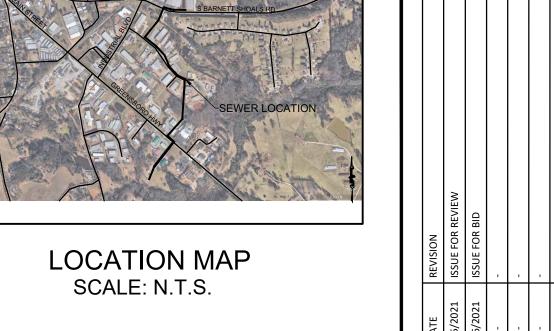
SEWER LINE A

ES&PC VI

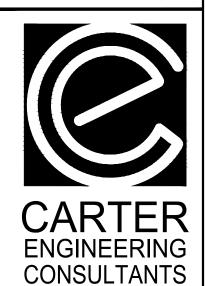
C-4.6

SEWER A









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SEWER Y OF WAT OCONEE SP

PROJECT NAME: CITY OF

WATKINSVILLE SEWER LINE A

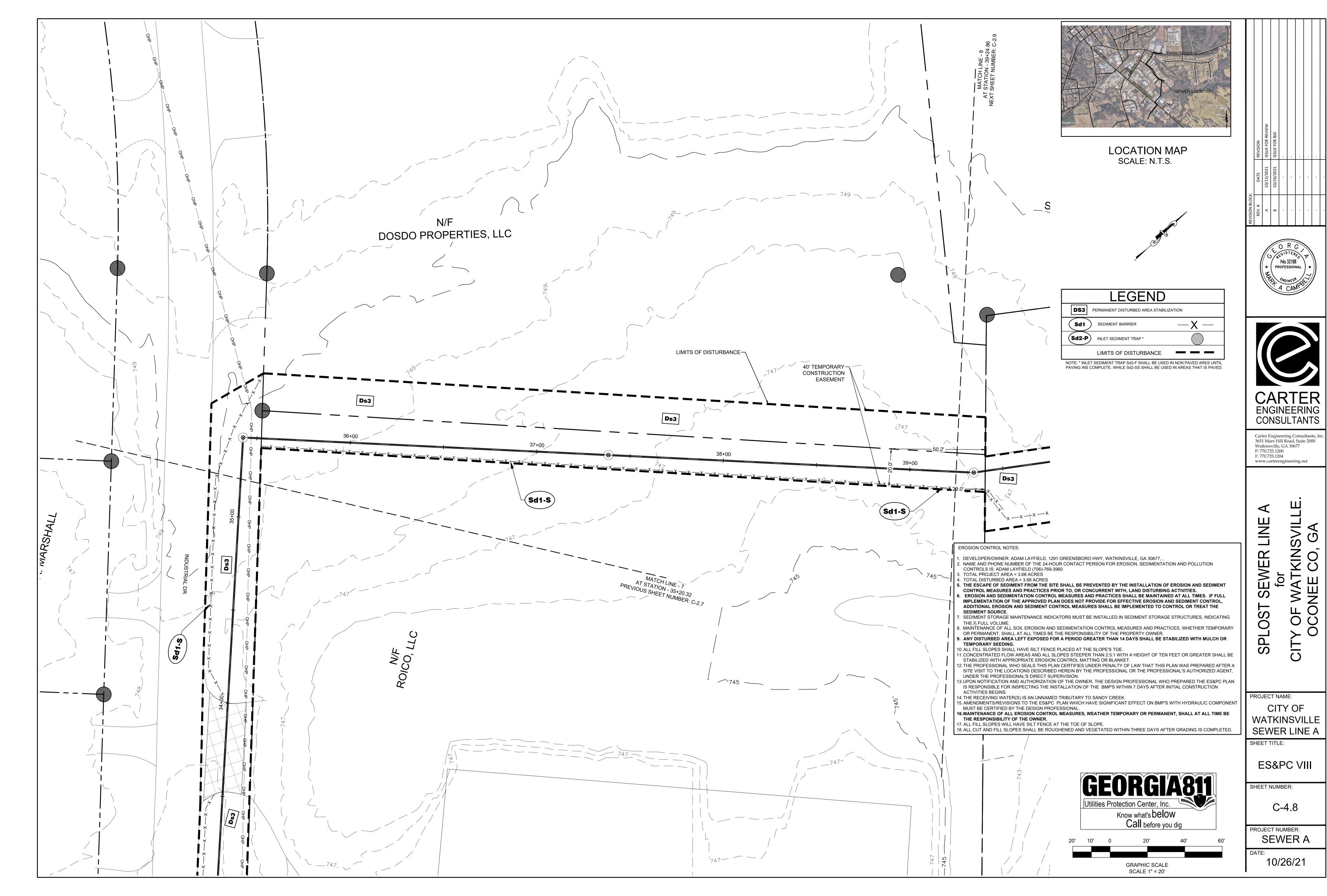
ES&PC VII

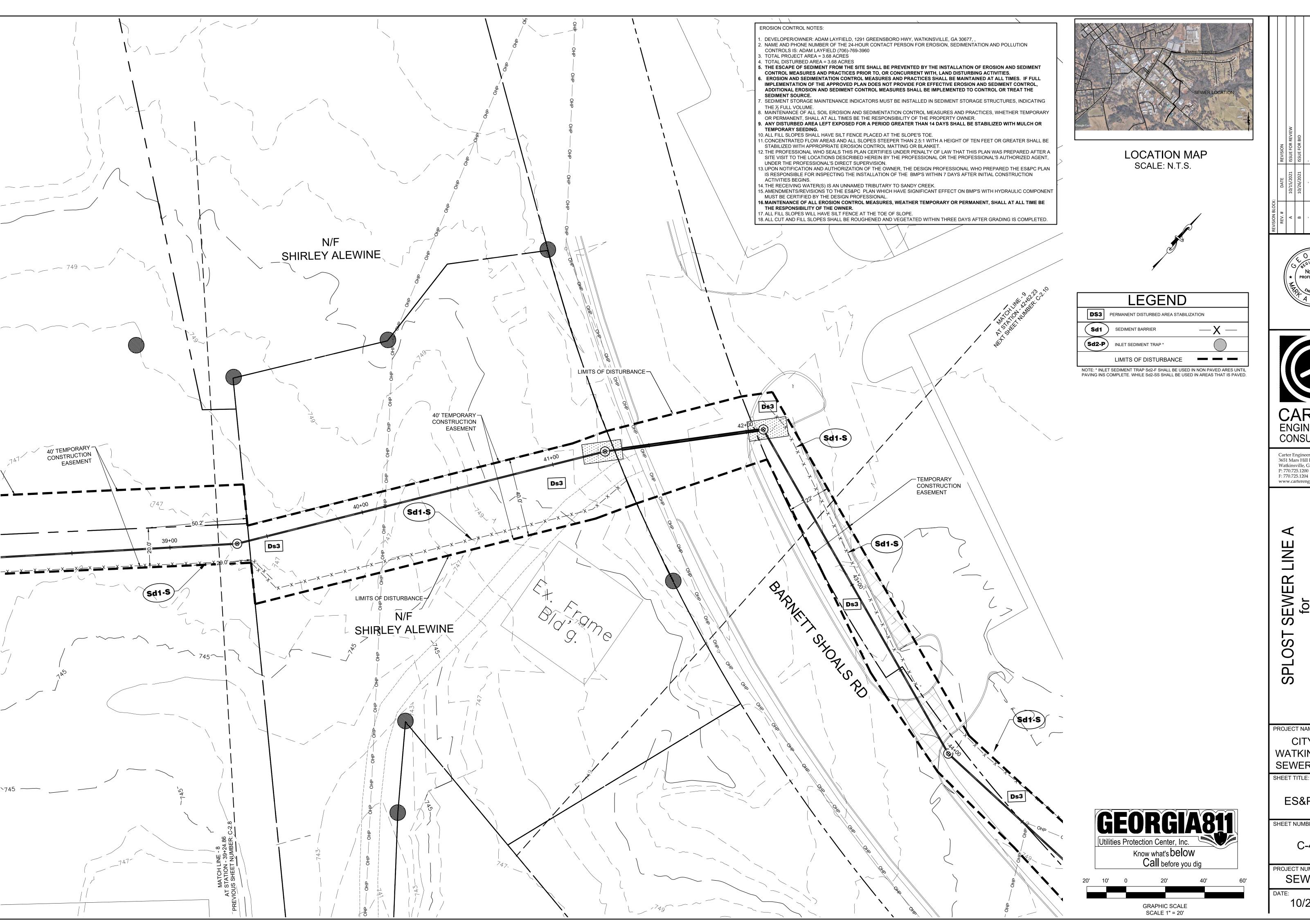
SHEET NUMBER:

C-4.7

PROJECT NUMBER:

SEWER A





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SEWER Y OF WAT OCONEE

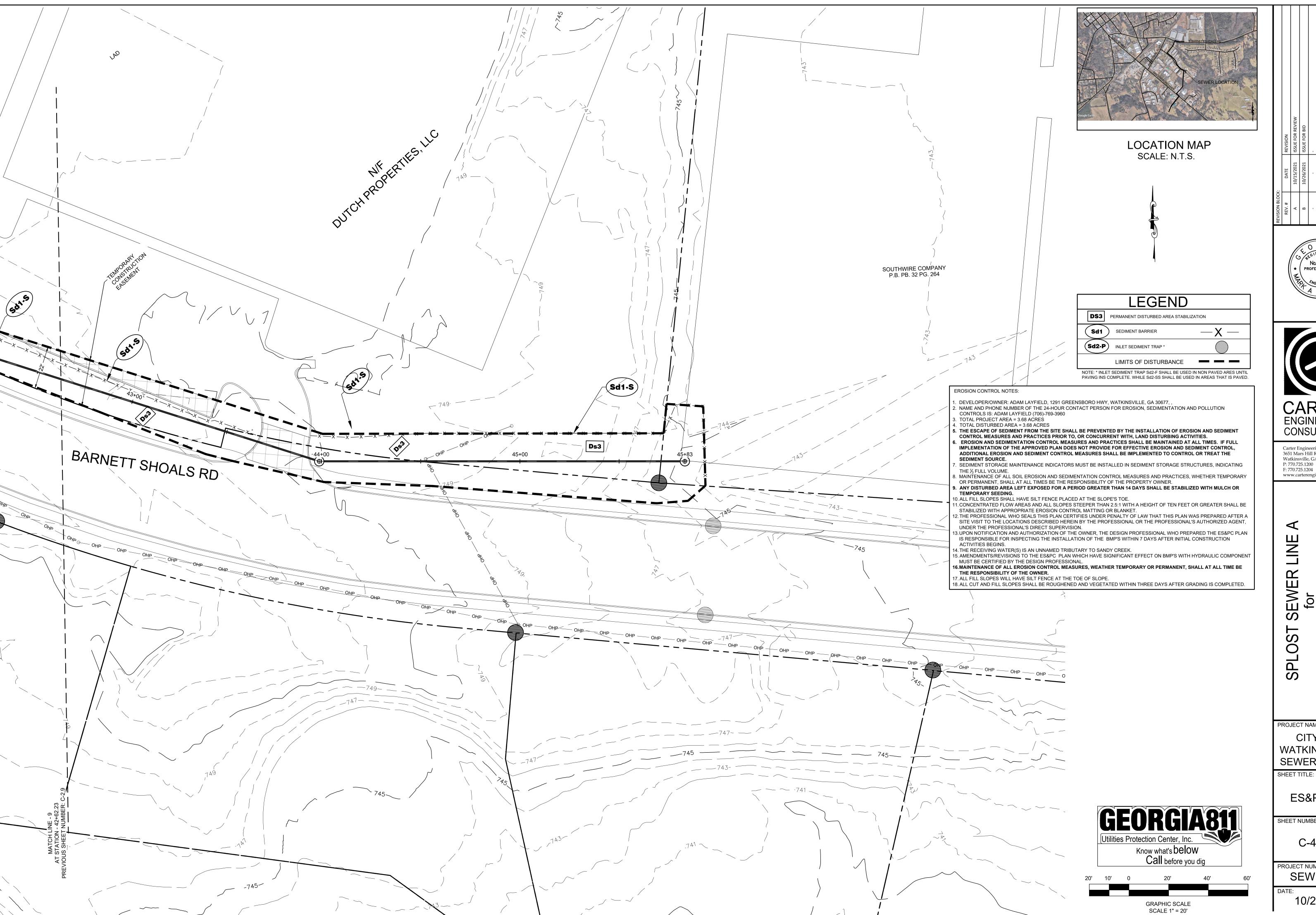
PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A

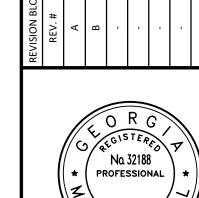
ES&PC IX

SHEET NUMBER:

C-4.9

PROJECT NUMBER: SEWER A







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SEWER SPL

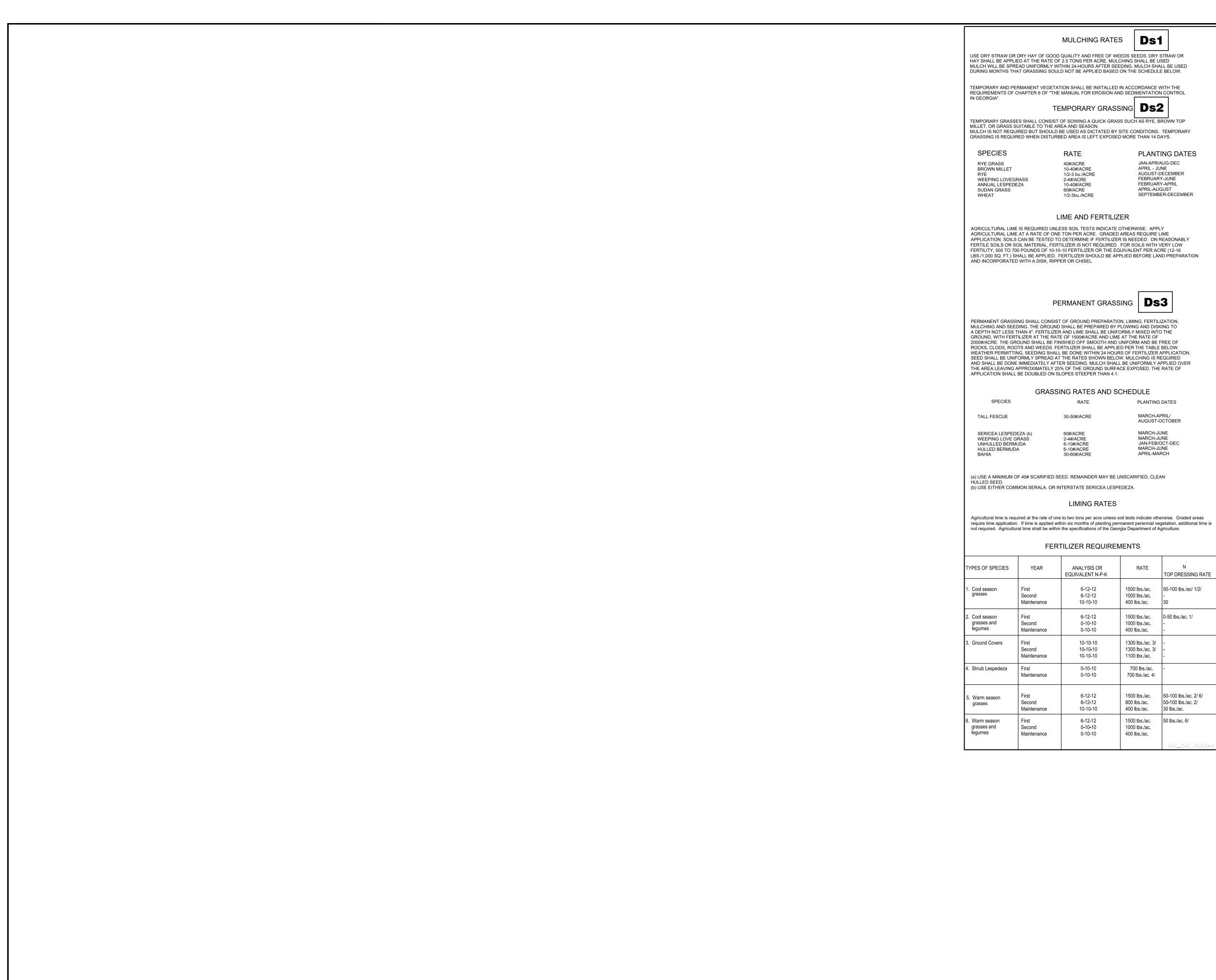
PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A

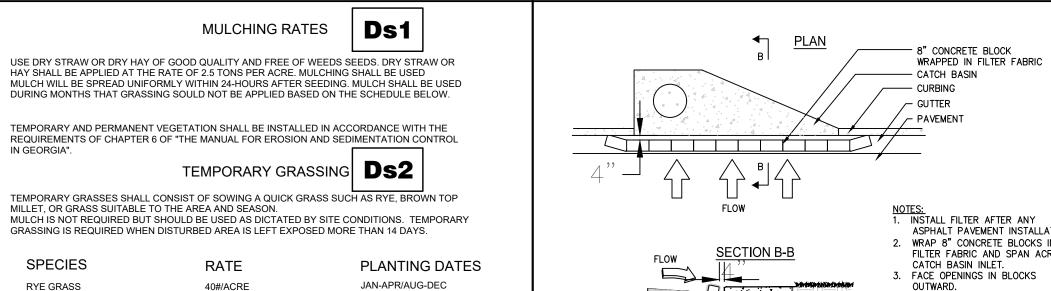
ES&PC X

SHEET NUMBER:

C-4.10

PROJECT NUMBER: SEWER A





RATE

40#/ACRE

2-4#/ACRE

60#/ACRE

10-40#/ACRE

1/2-3 bu./ACRE

10-40#/ACRE

1/2-3bu./ACRE

LIME AND FERTILIZER

PERMANENT GRASSING

30-50#/ACRE

60#/ACRE

2-4#/ACRE

6-10#/ACRE 6-10#/ACRE 30-60#/ACRE

LIMING RATES

FERTILIZER REQUIREMENTS

ANALYSIS OR

EQUIVALENT N-P-K

6-12-12 6-12-12

0-10-10

0-10-10

10-10-10

0-10-10 0-10-10

6-12-12 6-12-12 10-10-10

6-12-12 0**-**10**-**10 0-10-10

APRIL - JUNE

FEBRUARY-JUNE

APRIL-AUGUST

FEBRUARY-APRIL

PLANTING DATES

AUGUST-OCTOBER

JAN-FEB/OCT-DEC

MARCH-APRIL/

MARCH-JUNE

MARCH-JUNE

APRIL-MARCH

RATE

1500 lbs./ac.

1000 lbs./ac. 400 lbs./ac.

1500 lbs./ac.

1000 lbs./ac.

1300 lbs./ac. 3/

1300 lbx./ac. 3/

700 lbs./ac.

700 lbs./ac. 4/

1500 lbs./ac.

800 lbs./ac.

400 lbs./ac.

1500 lbs./ac.

1000 lbs./ac.

400 lbs./ac.

1100 lbx./ac.

400 lbs./ac.

TOP DRESSING RATE

50-100 lbs./ac/ 1/2/

0-50 lbs./ac. 1/

50-100 lbs./ac. 2/ 6/

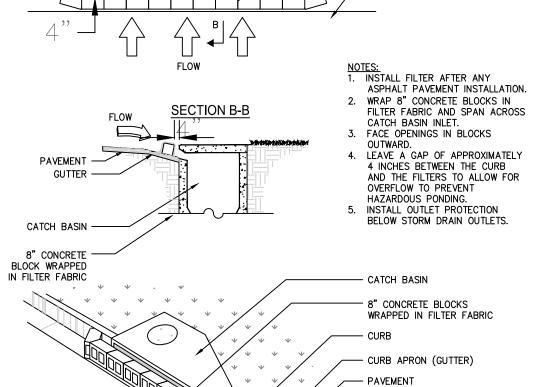
50-100 lbs./ac. 2/

50 lbs./ac. 6/

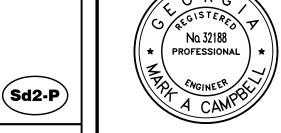
30 lbs /ac.

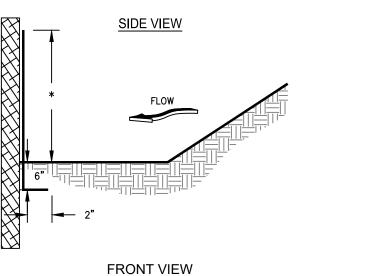
AUGUST-DECEMBER

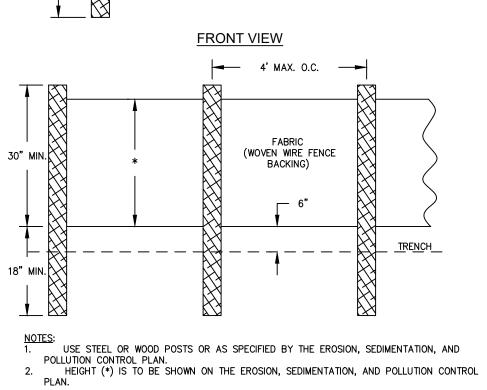
SEPTEMBER-DECEMBER



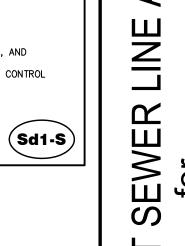
CURB INLET FILTER "PIGS IN BLANKET"







SILT FENCE-TYPE SENSITIVE NOT TO SCALE





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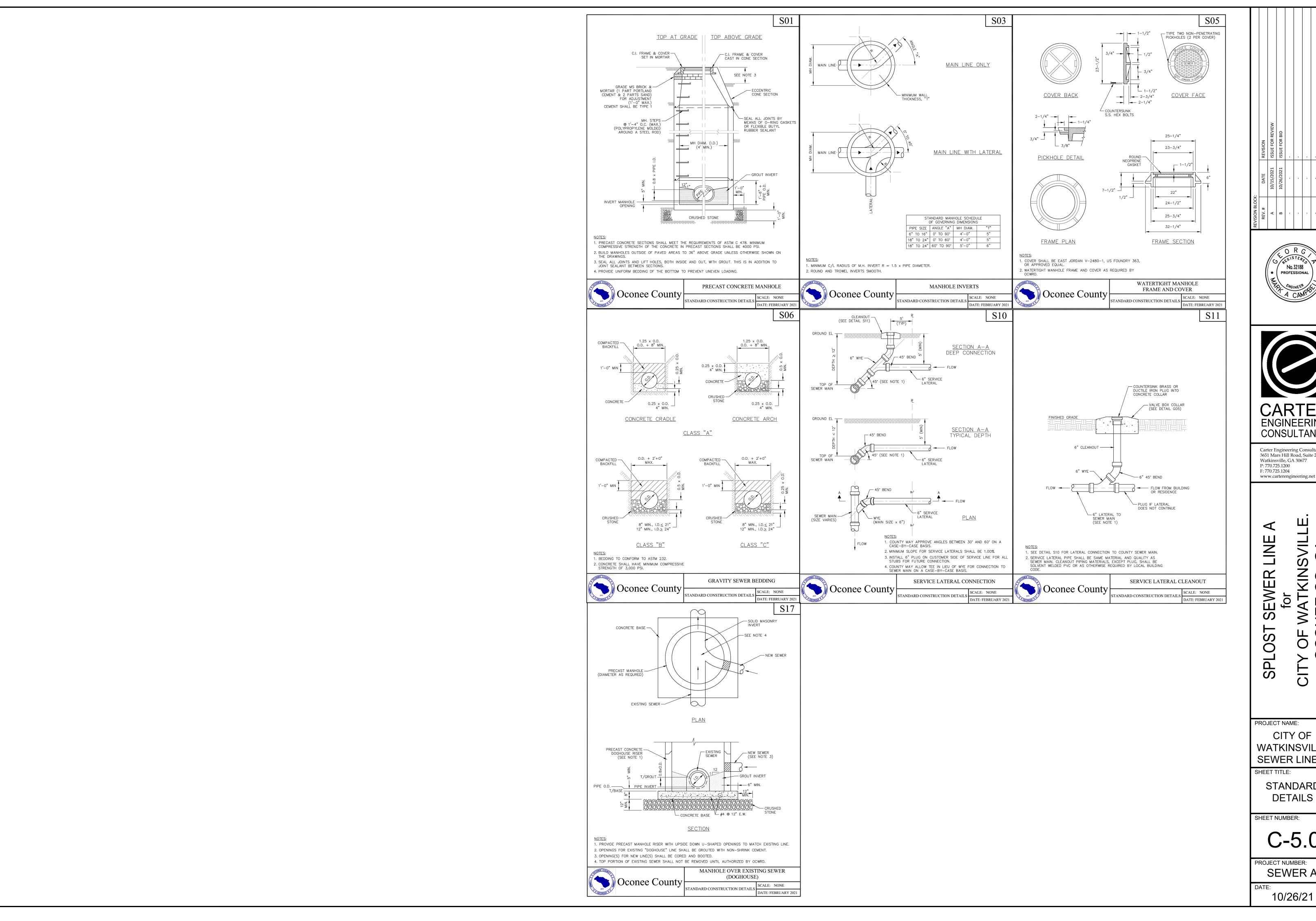
 $\triangleleft$ Y OF WATKINSVILL OCONEE CO, GA SPLOST

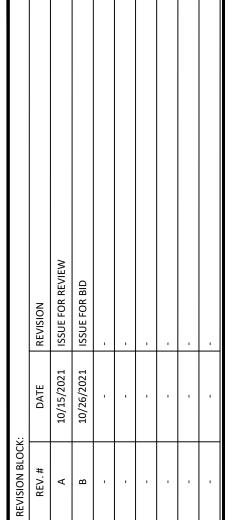
PROJECT NAME: CITY OF WATKINSVILLE SEWER LINE A

SHEET TITLE: **EROSION DETAILS** 

SHEET NUMBER:

PROJECT NUMBER: SEWER A









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WATKINSVILLE SEWER LINE A

STANDARD

SEWER A