

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV

S. BAMBY LANE NE @ DRESDEN DRIVE
BROOKHAVEN, GA 30319

FOR

CITY OF BROOKHAVEN

4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

PREPARED BY:



PLANNERS AND ENGINEERS COLLABORATIVE

SITE PLANNING | LANDSCAPE ARCHITECTURE | CIVIL ENGINEERING | LAND SURVEYING
350 RESEARCH COURT | PEACHTREE CORNERS, GEORGIA 30092 | (770) 451-2741 | FAX (770) 451-3915

"WE PROVIDE SOLUTIONS"

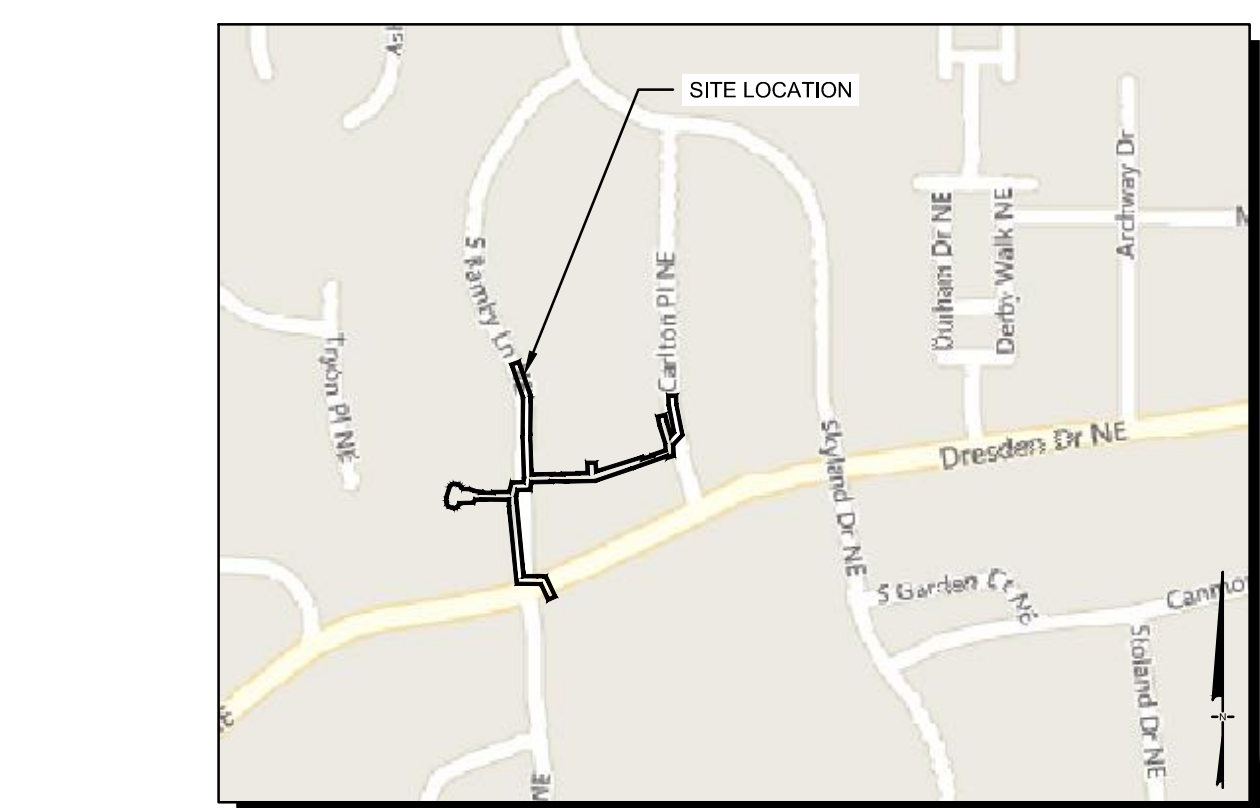
**DO NOT BEGIN
CONSTRUCTION**

before the on-site pre-construction meeting
with the City Land Development Inspector.
Call 404/637-0500 to schedule.

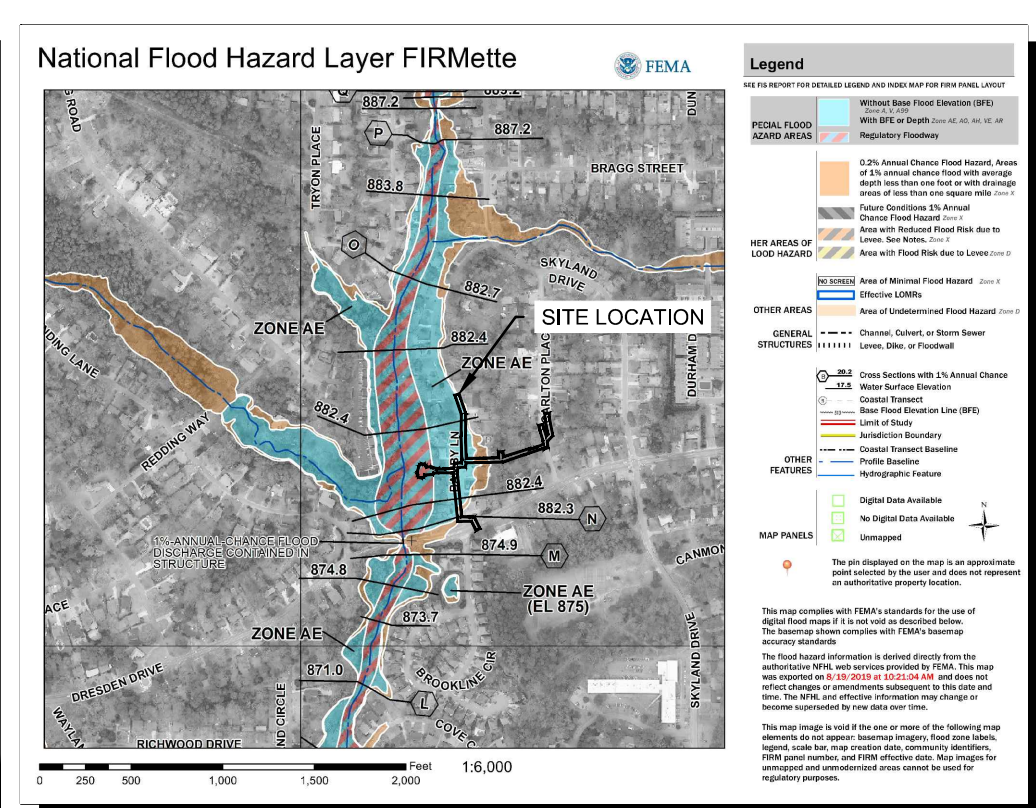
S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
A MASTER PLANNED RESIDENTIAL DEVELOPMENT
FOR
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

LAND LOT 243
18TH DISTRICT
CITY OF BROOKHAVEN
DEKALB COUNTY
GEORGIA

"WE PROVIDE SOLUTIONS"
PLANNERS AND ENGINEERS COLLABORATIVE
SITE PLANNING | LANDSCAPE ARCHITECTURE | CIVIL ENGINEERING | LAND SURVEYING
350 RESEARCH COURT | PEACHTREE CORNERS, GEORGIA 30092 | (770) 451-2741 | FAX (770) 451-3915



SITE LOCATION MAP
NOT TO SCALE



FEMA FIRM MAP
FEMA FIRM PANEL NO. 13088C0052K
NOT TO SCALE

24 HOUR CONTACT:
DON SHERRILL @ 404-991-4763

CONTACT INFORMATION:

ENGINEER:	NEIL SCHAAP, P.E. PLANNERS AND ENGINEERS COLLABORATIVE	OWNER:	CITY OF BROOKHAVEN
ADDRESS:	350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092	ADDRESS:	4362 PEACHTREE RD BROOKHAVEN, GA 30319
PHONE:	770.451.2741	PHONE:	404-637-0500
EMAIL:	NSCHAAP@PECATL.COM		

DEVELOPMENT SERVICES PERMITTING DISCLAIMER:
THE APPROVAL OF THESE PLANS AND THE ISSUANCE OF THIS LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING, HAVE BEEN MET. THE ONUS IS ON THE OWNER/DEVELOPER/BUILDER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, POLICIES, STANDARDS OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

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SCOPE OF WORK:
THIS PROJECT WILL REPLACE AGING STORMWATER INFRASTRUCTURE AND RELOCATE THREE CONFLICTING SEGMENTS OF WATERMAIN.

- GENERAL NOTES:**
- PRIOR TO LAND DISTURBING AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA EROSION CONTROL / SITE DEVELOPMENT INSPECTOR.
 - IF THE CONTRACTOR, DURING THE COURSE OF THE WORK, FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
 - THE EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN PREPARED FROM THE INFORMATION AVAILABLE TO THE ENGINEER AND MAY NOT BE ACCURATE TO EXTENT OR LOCATIONS. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL NOTIFY UTILITIES AND THEN MARK OR REMARK THEIR FACILITIES.
 - THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING VEGETATION WHICH DOES NOT UNREASONABLY INTERFERE WITH CONSTRUCTION.
 - THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND STAKES.
 - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF ALL MATERIALS. THE EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH THE STATE AND LOCAL CODES, RULES, AND REGULATIONS.
 - TESTING SHALL BE DONE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
 - SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE MANUAL OF ACCIDENT PROTECTION IN CONSTRUCTION AS PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, OSHA, AND THE LOCAL REGULATIONS.
 - MAXIMUM CUT OR FILL SLOPE IS 2H:1V UNLESS OTHERWISE SPECIFIED. SLOPES EQUAL TO OR STEEPER THAN 2.5H:1V AND WITH A HEIGHT OF 10' OR GREATER SHALL BE STABILIZED WITH APPROPRIATE MATTING OR BLANKETS.

- SITE INFORMATION**
- TOTAL AREA DISTURBED 0.85 ACRES.
 - BOUNDARY & TOPOGRAPHIC INFORMATION PROVIDED BY PLANNERS & ENGINEERS COLLABORATIVE
 - THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR DEKALB COUNTY, GEORGIA AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER(S) 13088C0052K, EFFECTIVE DATE 08/15/2019 WAS EXAMINED AND FOUND THAT PORTIONS OF THE PROJECT AREA WAS FOUND TO FALL WITHIN A DESIGNATED FLOOD ZONE "AE" (AREAS OF 100-YEAR FLOOD).
 - THERE ARE STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE SITE.
 - THERE ARE NO KNOWN WETLANDS ON THE PROJECT SITE.
 - THE ORTHOMETRIC HEIGHTS (ELEVATIONS AND CONTOURS) SHOWN HEREON WERE DETERMINED BY A COMBINATION OF FIELD RUN SURVEY BY PLANNERS & ENGINEERS COLLABORATIVE AND CITY OF BROOKHAVEN GIS.

SITE DATA

ADDRESS: S. BAMBY LANE NE @
DRESDEN DRIVE
BROOKHAVEN, GA 30319

DISTURBED AREA: 0.85 AC

The City of Brookhaven does not certify the accuracy of these drawings. In approving these drawings and specifications, the City has relied upon the accuracy of the information and representations furnished herein by the engineer, or architect, and/or applicant. The City of Brookhaven assumes no liability or responsibility for the accuracy of the representations provided.

APPROVED Public Works
Kevin Korth

APPROVED Arborist
Steven Strickland

APPROVED ENGINEERING
Murray Nicol

APPROVED Engineering
Timothy Ward



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Neil M Schaap
Level II Certified Design Professional
CERTIFICATION NUMBER 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS
4	01-24-20	MS	CITY COMMENTS

REVIEWER STAMP

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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COVER SHEET

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

GEORGIA REGISTERED PROFESSIONAL ENGINEER
NEIL M. SCHAAP
01/24/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

C0.00
SHEET

GENERAL NOTES

- ALL ROADWAY WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, APPROVED APRIL 18, 2013; SUPPLEMENTAL SPECIFICATIONS, APPROVED JUNE 16, 2016; AND GDOT CONSTRUCTION STANDARDS AND DETAILS, LATEST VERSION. SPECIFICATIONS USED ARE NOT LIMITED TO THE SPECIFICATIONS LISTED ON THE PLANS.
- ALL WATER AND SEWER WORK SHALL BE DONE IN ACCORDANCE WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN AND CONSTRUCTION MANUAL (LATEST EDITION)
- ALL LAND DISTURBING ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH CITY OF BROOKHAVEN ORDINANCES AS WELL AS THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (LATEST EDITION).
- IF THE CONTRACTOR, IN THE COURSE OF THE WORK, FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS OR HER DUTY TO IMMEDIATELY INFORM THE ENGINEER AND THE CITY, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL PRESERVE BENCH MARKS, REFERENCE POINTS AND SURVEY STAKES.
- CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE LEAD INSPECTOR.
- THE SURVEY FOR THIS PROJECT WAS PREPARED BY PLANNERS & ENGINEERS COLLABORATIVE AND SUPPLEMENTED USING CITY OF BROOKHAVEN GIS DATA.
- QUANTITIES SHOWN ON THE PLANS (INCLUDING EARTHWORKS) ARE FOR ESTIMATION PURPOSES ONLY. CONTRACTOR IS TO VERIFY ALL QUANTITIES TO BE INCLUDED IN THE BID PRICE.
- A PORTION OF THE PROJECT AREA FALLS WITHIN THE FEMA SPECIAL FLOOD HAZARD AREA PER FIRM PANEL 13089C0052K, EFFECTIVE 08/15/2019.
- ALL WORK SHALL CONFORM WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES AS LISTED ABOVE. ANY WORK ASSOCIATED WITH THIS PROJECT THAT IS NOT ADDRESSED IN THE LISTED SPECIFICATIONS OR THIS SET OF CONSTRUCTION PLANS SHALL COMPLY WITH THE CONSTRUCTION SPECIFICATIONS INSTITUTE MASTER GUIDE SPECIFICATIONS.

UTILITY NOTES

- ALL UTILITY LINES SHOWN ON THE PLANS HAVE BEEN PREPARED FROM THE INFORMATION AVAILABLE TO THE ENGINEER AND THE CITY AND MAY NOT BE ACCURATE TO EXTENT OR LOCATIONS. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL NOTIFY UTILITIES AND THEN MARK OR REMARK THEIR FACILITIES. THE CONTRACTOR SHALL COMPLY WITH SUBSECTION 105.06 OF THE GDOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES."
- THE CONTRACTOR SHALL NOTIFY THE CITY OF BROOKHAVEN PRIOR TO ANY DISRUPTION OF UTILITY SERVICES.
- THE CONTRACTOR SHALL CONTACT THE GEORGIA ONE-CALL SYSTEM (811) 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- THE FOLLOWING UTILITIES HAVE BEEN IDENTIFIED IN THE PROJECT AREA:

ATLANTA GAS LIGHT (SOUTHERN COMPANY GAS)
CONTACT: ROBERT STACHLER, OFFICE (404) 584-4150, MOBILE (404) 548-4796
EMAIL: RSTACHLE@SOUTHERNCO.COM

DEKALB COUNTY WATERSHED MANAGEMENT, WATER & SEWER
CONTACT: EDMOND KILLINGBECK, OFFICE (770) 724-1459, MOBILE (470) 786-2125
EMAIL: ECKILLINGBECK@DEKALBCOUNTYGA.GOV

GEORGIA POWER COMPANY
CONTACT: LAMONTE WASLIEN, (404) 947-0729
EMAIL: LWASLIEN@SOUTHERNCO.COM

AT&T
CONTACT: JASON DOBSON, (770) 757-9482
EMAIL: JD1288@ATT.COM

COMCAST
CONTACT: CHARLIE ROSS, OFFICE (770) 559-6994, MOBILE (404) 597-4353
EMAIL: CHARLES_ROSS@CABLE.COMCAST.COM

- ANY IRRIGATION SYSTEM ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION IS TO BE RE-ESTABLISHED (INCLUDING TESTING) BY THE CONTRACTOR. PROJECT CONTRACTOR IS TO CUT AND CAP IRRIGATION SYSTEM OUTSIDE OF LIMITS OF CONSTRUCTION DURING CONSTRUCTION.
- ALL POTABLE WATER AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT POTABLE WATER MAIN, GRAVITY SANITARY SEWER, AND SANITARY SEWER PUMP STATION AND FORCEMAIN DESIGN STANDARDS, CURRENT EDITION. DETAILS AND SPECIFICATIONS ARE NOT LIMITED TO THOSE DETAILS AND SPECIFICATIONS LISTED OR SHOWN IN THIS DRAWING SET.

CLEARING AND GRADING

- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- INITIAL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO TREE PROTECTION MEASURES AND SILT FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY MARKED.
- SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE MANUAL OF ACCIDENT PROTECTION IN CONSTRUCTION AS PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, OSHA, AND GDOT REGULATIONS.
- THIS PROJECT HAS A TOTAL DISTURBED AREA OF 0.85. THE DISTURBED AREA ENCOMPASSES THE THE AREA ASSOCIATED WITH CLEARING, GRADING, EXCAVATING, FILLING OF LAND, OR OTHER SIMILAR ACTIVITIES WHICH MAY RESULT IN SOIL EROSION, AS DEFINED UNDER 'CONSTRUCTION ACTIVITIES' IN THE STATE OF GEORGIA NATURAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. GAR100001.
- ANY DAMAGE TO DRIVEWAYS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DRIVEWAYS SHALL BE REPLACED IN KIND.
- GRADING AND EARTHWORKS ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S SPECIFICATION. OR LACKING SPECIFICATIONS, GDOT'S SPECIFICATIONS MAY BE USED.
- SOILS TESTING AND INSPECTION SHALL BE CONDUCTED BY A GEOTECHNICAL ENGINEER AT THE DISCRETION OF THE CITY OF BROOKHAVEN. IN THE EVENT OF A DISCREPANCY BETWEEN SPECIFICATIONS PROVIDED ON THE PLANS AND THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL COMPLY WITH THE MOST STRINGENT.
- EXCAVATION AND MATERIAL SAMPLES SHALL BE PROVIDED BY THE CONTRACTOR TO CONDUCT ANY REQUIRED SOILS TEST. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING TESTING WITH THE GEOTECHNICAL ENGINEER. COPIES OF THE TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR, ENGINEER AND THE CITY OF BROOKHAVEN. THE CITY SHALL BE NOTIFIED SHOULD ANY TEST RESULTS NOT COMPLY WITH SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING, LOADING AND TRANSPORTING SUITABLE FILL MATERIAL AS WELL AS LOADING AND DISPOSING OF ANY UNSUITABLE OR WASTE MATERIAL IN ACCORDANCE WITH STATE LAW. SOLID WASTE MAY NOT BE BURIED ON SITE.
- IN THE EVENT A DE-WATERING IS NECESSARY DURING EXCAVATION, THE PUMPED GROUND WATER SHALL BE ROUTED THROUGH APPROPRIATE SILT CONTROL MEASURES PRIOR TO DISCHARGE.

STORM PIPE

- THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES.
- ALL STORM PIPE SHALL BE INSTALLED IN SMOOTH, CONTINUOUS GRADES WITH NO OBSERVABLE BENDS AT THE JOINTS. TRENCHING, PIPE INSTALLATION AND BACKFILLING SHALL COMPLY WITH CITY OF BROOKHAVEN ORDINANCES AS WELL AS O.S.H.A. REGULATIONS.
- STORM DRAINAGE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AS WELL AS ANY APPLICABLE GDOT AND CITY OF BROOKHAVEN SPECIFICATIONS.

PAVEMENT AND SITE RESTORATION

- AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR ASPHALT SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE.
- WHERE EXISTING PAVEMENT MARKINGS AND LINES ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE ENGINEER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING LINES OR MARKINGS SHALL BE IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERTY STRIPED.
- TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
- ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS AND BROOKHAVEN FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- WHEN SURFACE IS ASPHALTIC CEMENT CONCRETE, STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR THERMOPLASTIC STRIPING.
- WHEN SURFACE IS PORTLAND CEMENT CONCRETE, STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR PREFORMED CONTRAST STRIPING.
- WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY BROOKHAVEN TRAFFIC ENGINEER.
- ALL FINAL SIGNAGE MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
- CONTACT THE BROOKHAVEN PUBLIC WORKS (404-637-0540) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.

TRAFFIC CONTROL

- THE CONTRACTOR SHALL COMPLY WITH ARTICLES 104.05 AND 107.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
- INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AND EMERGENCY VEHICLES. REFER TO SUB-SECTION 107.07 OF THE GDOT STANDARD SPECIFICATIONS. IF NECESSARY, A TEMPORARY CRUSHED STONE BASE OF 6" , CAPABLE OF PASSING A FIRE TRUCK, SHALL BE INSTALLED
- ALL TEMPORARY SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES', CURRENT EDITION AND/OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. ROADWAY DRAINAGE MUST BE MAINTAINED DURING CONSTRUCTION FOR ALL ROADWAYS THAT WILL REMAIN OPEN AND CARRY TRAFFIC.
- THE CONTRACTOR SHALL PROVIDE A ROAD CLOSURE / DETOUR PLAN TO THE CITY OF BROOKHAVEN TRAFFIC ENGINEER A MINIMUM OF 4 WEEKS PRIOR TO ANY PLANNED ROAD CLOSURE. NOTIFICATION OF ROAD CLOSURE SIGNAGE SHALL BE POSTED FOR A MINIMUM OF 2 WEEKS PRIOR TO ANY PLANNED ROAD CLOSURE.

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
A MASTER PLANNED RESIDENTIAL DEVELOPMENT

FOR
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4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

LAND LOT 2-3
18TH DISTRICT

"WE PROVIDE SOLUTIONS"
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350 RESEARCH COURT | PEACHTREE CORNERS, GEORGIA 30092 | (770) 451-2741 | FAX (770) 451-9915

REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

REVIEWER STAMP

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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STANDARDS AND SPECIFICATIONS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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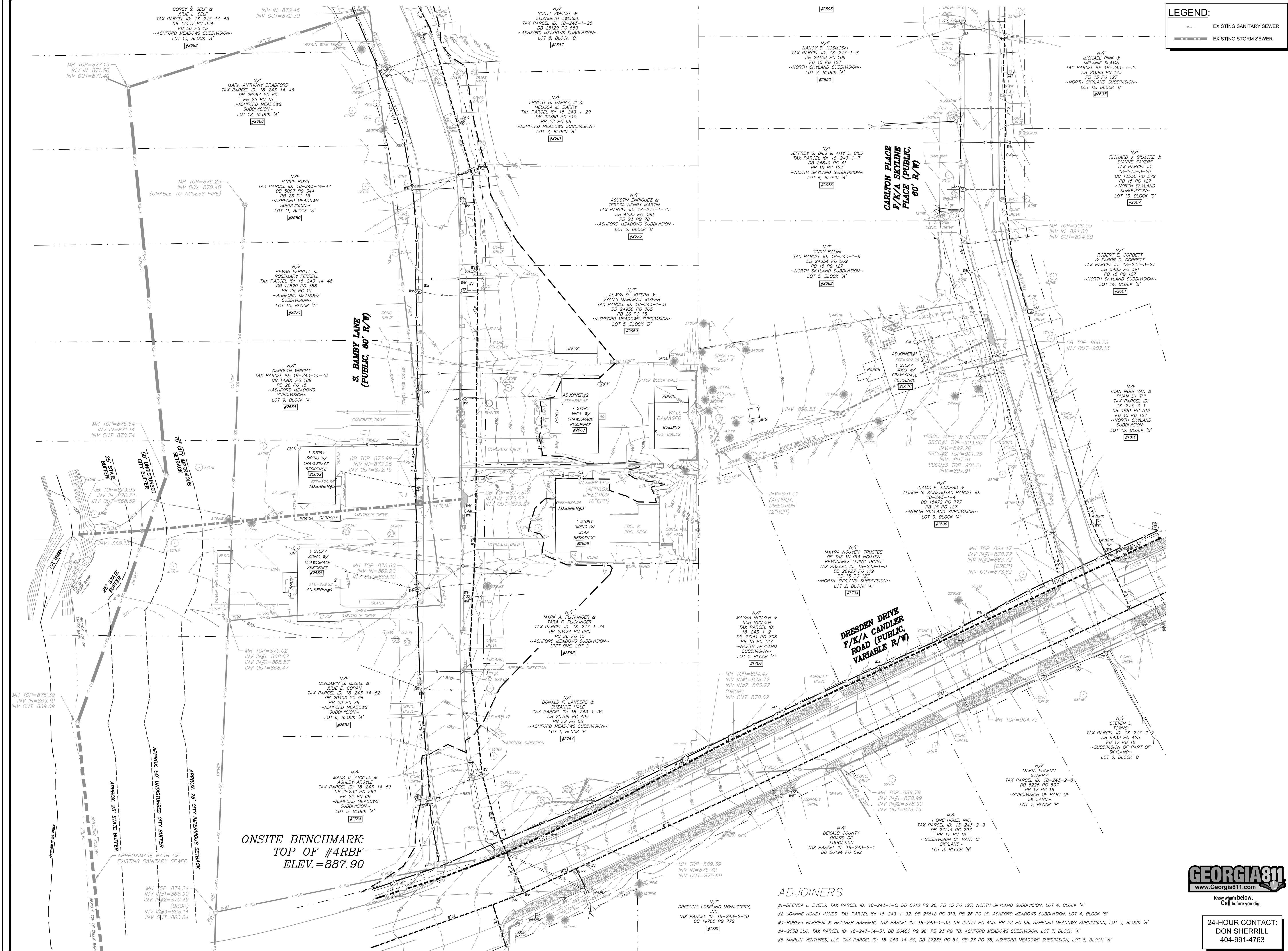
01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000067548 EXP. 12/21/2021

24 HOUR CONTACT:
DON SHERRILL @ 404-991-4763

C0.01

SHEET



LEGEND:

— EXISTING SANITARY SEWER

— EXISTING STORM SEWER

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
 A MASTER PLANNED RESIDENTIAL DEVELOPMENT

FOR
CITY OF BROOKHAVEN
 4362 PEACHTREE RD
 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500

LAND LOT 243
 18TH DISTRICT

PLANNERS AND ENGINEERS COLLABORATIVE
 SITE PLANNING LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND SURVEYING
 350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092 (770) 451-2741 FAX (770) 451-9915

"WE PROVIDE SOLUTIONS"

REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
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BROOKHAVEN PRJ# 19-00049
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EXISTING CONDITIONS

SCALE: 1" = 30'

DATE: 06/12/2019

PROJECT: 19051.00

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REGISTERED PROFESSIONAL ENGINEER
 WELM M. SCHMIDT
 01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

24-HOUR CONTACT:
 DON SHERRILL
 404-991-4763

C1.00
 SHEET

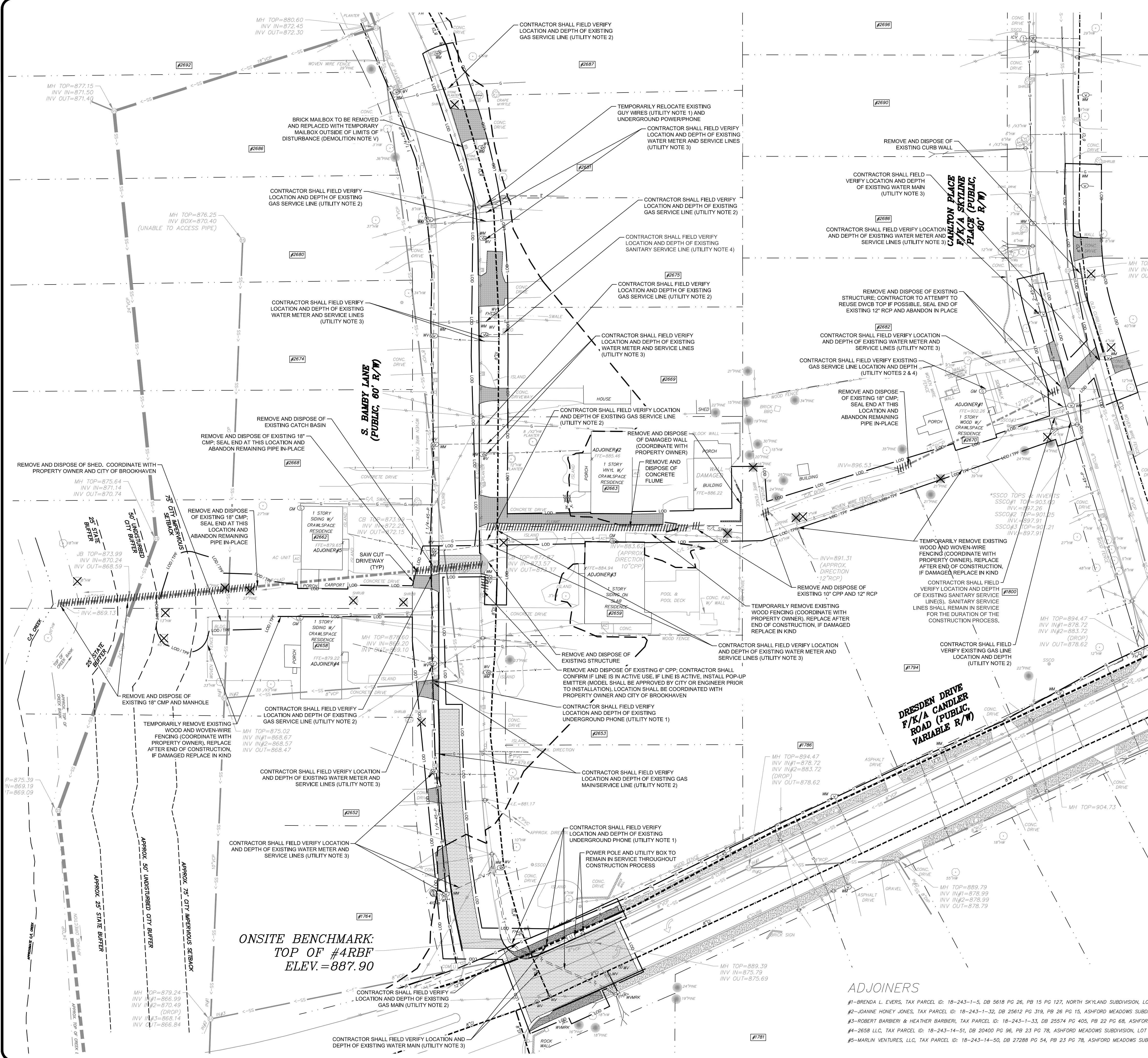
- ADJOINERS**
- #1-BRENDA L. EVERS, TAX PARCEL ID: 18-243-1-5, DB 5618 PG 26, PB 15 PG 127, NORTH SKYLAND SUBDIVISION, LOT 4, BLOCK 'A'
 - #2-JOANNE HONEY JONES, TAX PARCEL ID: 18-243-1-32, DB 25612 PG 319, PB 26 PG 15, ASHFORD MEADOWS SUBDIVISION, LOT 4, BLOCK 'B'
 - #3-ROBERT BARBERI & HEATHER BARBERI, TAX PARCEL ID: 18-243-1-33, DB 25574 PG 405, PB 22 PG 68, ASHFORD MEADOWS SUBDIVISION, LOT 3, BLOCK 'B'
 - #4-2658 LLC, TAX PARCEL ID: 18-243-14-51, DB 20400 PG 96, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 7, BLOCK 'A'
 - #5-MARLIN VENTURES, LLC, TAX PARCEL ID: 18-243-14-50, DB 27288 PG 54, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 8, BLOCK 'A'

ONSITE BENCHMARK:
 TOP OF #4RBF
 ELEV. = 887.90

GEORGIA811
 www.Georgia811.com

Know what's below.
 Call before you dig.

11/18/2019 09:00 AM - 11/18/2019 09:00 AM - 11/18/2019 09:00 AM - 11/18/2019 09:00 AM



EXISTING UTILITIES NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES. SEE SHEETS C5.00-C5.03 FOR RELOCATION REQUIREMENTS.
- SERVICE LINE NOT SHOWN. SERVICE LINE NOT FOUND DURING UTILITY LOCATE OR SURVEY. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATION AND COORDINATE WITH CORRESPONDING UTILITY COMPANY.

DEMO LEGEND

- EXISTING WALLS TO BE REMOVED
- EXISTING PIPES TO BE REMOVED
- EXISTING DRIVEWAYS/PAVEMENT TO SAWCUT AND REMOVE
- EXISTING GRANITE CURB TO BE TEMPORARILY REMOVED
- EXISTING TREES TO BE REMOVED
- LOD - LIMITS OF DISTURBANCE
- LOD/TPF - LIMITS OF DISTURBANCE / TREE PROTECTION FENCE

DEMOLITION NOTES:

- POLLUTION CONTROLS: USE WATER SPRINKLERS AND TEMPORARY ENCLOSURES TO LIMIT THE AMOUNT OF DUST AND DIRT RISING IN THE AIR TO THE LOWEST PRACTICAL LEVEL. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS CONDITIONS, ICE, FLOODING, OR POLLUTION.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO THE START OF THE WORK.
- COORDINATE WITH THE CORRESPONDING UTILITY COMPANY BEFORE REMOVING ANY UNDERGROUND OR OVERHEAD UTILITY LINES AND TRANSFORMERS.

JOB CONDITIONS & TRAFFIC CONTROL

- CONDITION OF STRUCTURES: PRIOR TO DEMOLITION, THE SITE IS TO BE VISITED BY THE CONTRACTOR TO DETERMINE EXISTING CONDITIONS OF STRUCTURE(S) TO BE REMOVED.
- TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND ADJACENT OCCUPIED OR USED FACILITIES. OBTAIN ANY PERMITS FOR LANE CLOSURE IF NECESSARY. TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY CONTRACTOR.
- PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, FACILITIES, AND PERSONS.
- DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COST TO THE CITY OR NEARBY PROPERTY OWNERS.

DESCRIPTION OF WORK

- REMOVE FROM THE SITE DEBRIS, RUBBISH AND MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- DEMOLITION INCLUDES THE REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS, AS SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED. MATERIAL SHALL BE REMOVED FROM THE SITE.
- CONTRACTOR SHALL NOTIFY ALL GOVERNMENTAL AGENCIES, HAVING JURISDICTION, PRIOR TO THE START OF ANY DEMOLITION WORK. ANY FINES AND/OR PENALTIES INCURRED DUE TO THE CONTRACTOR NOT CONTACTING ALL REQUIRED GOVERNMENTAL AGENCIES PRIOR TO DEMOLITION SHALL BE PAID BY THE CONTRACTOR.

DISPOSAL

- GENERAL: REMOVE FROM THE SITE DEBRIS, RUBBISH AND MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL, ENVIRONMENTALLY SAFE MANNER. RECYCLING OR SALVAGE OF MATERIALS IS STRONGLY RECOMMENDED AND ENCOURAGED.
- REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES AND DISPOSE OF THE SITE.

MISCELLANEOUS

- ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION UPON COMPLETION OF DEMOLITION.
- ALL TREES TO REMAIN AND HAVE PROPER PROTECTION UNLESS APPROVED PLANS INDICATE OTHERWISE.
- ALL DEMOLITION DEBRIS TO BE HAULED OFF SITE.
- DUMPSTERS AND/OR TEMPORARY SANITARY FACILITIES SHALL NOT BE LOCATED IN STREET OR TREE PROTECTION AREA.
- ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED AS DEEMED NECESSARY BY THE ON-SITE INSPECTOR.
- CONTRACTOR SHALL ADJUST AND/OR REPLACE ALL DAMAGED EXISTING CURBS OR CURB AND GUTTER ALONG PROPERTY FRONTAGE TO THE PROPER HEIGHT OF 6" ABOVE THE EXISTING PAVEMENT ELEVATION. ANY MISSING CURBS AND/OR GUTTERS DUE TO DRIVEWAY RELOCATIONS, WILL REQUIRE NEW CURBS TO BE INSTALLED TO MATCH EXISTING.
- ALL TRAFFIC SIGNS SHALL BE REMOVED WITHIN LIMIT OF DISTURBANCE, AND REPLACED ONCE CONSTRUCTION ACTIVITIES IN THE AREA ARE COMPLETED. SEE NOTES ON C0.01 AND C3.00.
- DEMOLITION CONTRACTOR TO CONFIRM THAT THE LOCATION OF EXISTING UTILITIES AND STRUCTURES MATCHES SURVEY PRIOR TO ANY DEMOLITION. CONTRACTOR TO CONFIRM ALL ITEMS TO BE DEMOLISHED WITH CLIENT OR ENGINEER PRIOR TO DEMOLITION.
- ALL MAILBOXES WITHIN THE LIMITS OF DISTURBANCE WILL BE TEMPORARILY RELOCATED TO AVOID INTERRUPTION OF POSTAL SERVICE.
- OPEN TRENCHES SHALL BE APPROPRIATELY FENCED OR COVERED WITH STEEL PLATES AT THE END OF EACH WORK DAY.

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 FOR
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 BROOKHAVEN, GA 30319
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2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

DISPOSAL

- GENERAL: REMOVE FROM THE SITE DEBRIS, RUBBISH AND MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL, ENVIRONMENTALLY SAFE MANNER. RECYCLING OR SALVAGE OF MATERIALS IS STRONGLY RECOMMENDED AND ENCOURAGED.
- REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES AND DISPOSE OF THE SITE.

BROOKHAVEN PRJ#: 19-00049
 DEKALB AP#: 3045859

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DEMOLITION PLAN

SCALE: 1" = 30'
 DATE: 06/12/2019
 PROJECT: 19051.00

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GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 No. 3426
 WELM. M. SCHMIDT
 01/10/2020

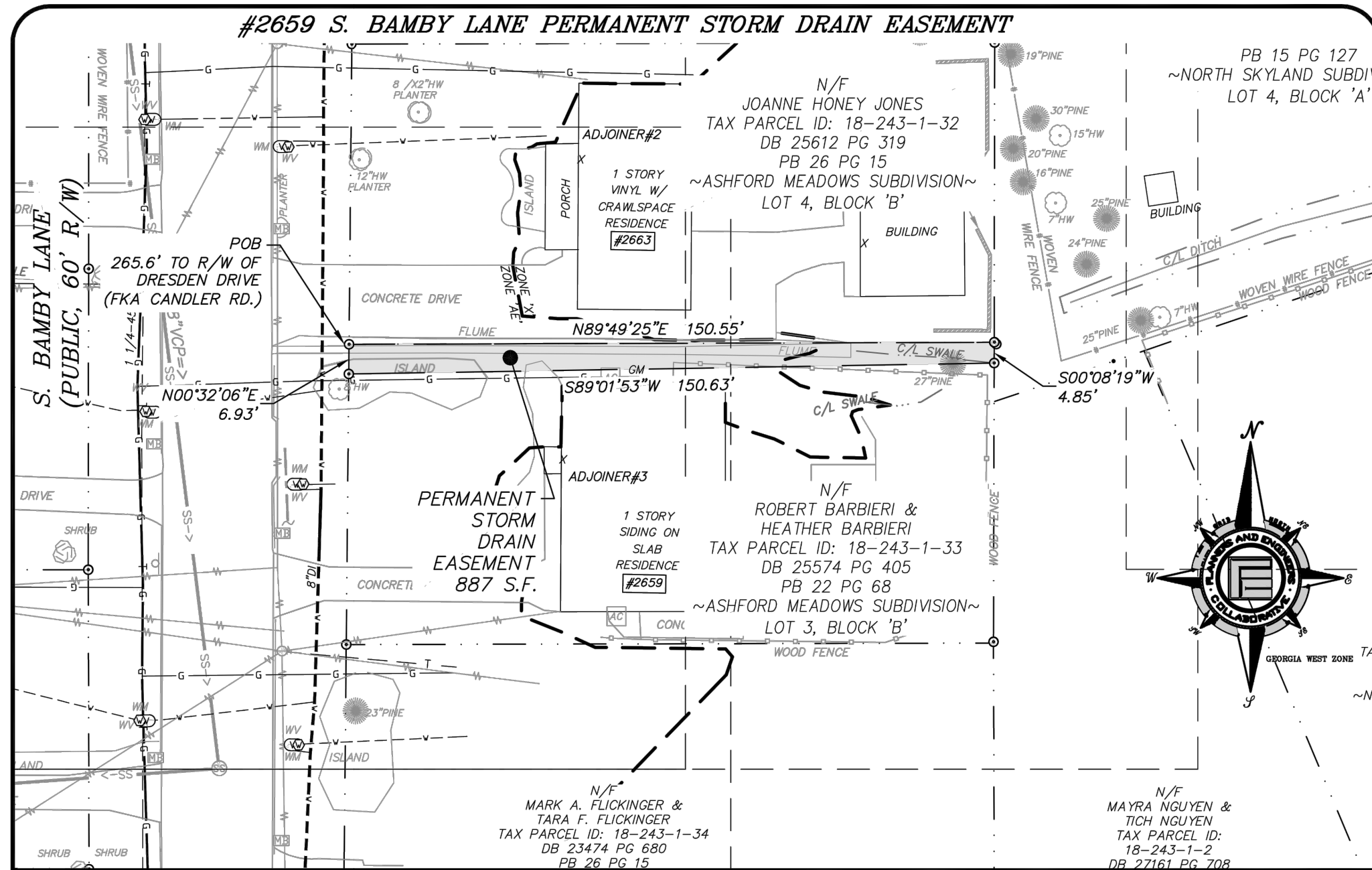
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 CERTIFICATION # 0000067548 EXP. 12/21/2021

24-HOUR CONTACT:
 DON SHERRILL
 404-991-4763

C2.00
 SHEET

- ADJOINERS**
- #1-BRENDA L. EVERS, TAX PARCEL ID: 18-243-1-5, DB 5618 PG 26, PB 15 PG 127, NORTH SKYLAND SUBDIVISION, LOT 4, BLOCK "A"
 - #2-JOANNE HONEY JONES, TAX PARCEL ID: 18-243-1-32, DB 25612 PG 319, PB 26 PG 15, ASHFORD MEADOWS SUBDIVISION, LOT 4, BLOCK "B"
 - #3-ROBERT BARBERI & HEATHER BARBERI, TAX PARCEL ID: 18-243-1-33, DB 25574 PG 405, PB 22 PG 68, ASHFORD MEADOWS SUBDIVISION, LOT 3, BLOCK "B"
 - #4-2658 LLC, TAX PARCEL ID: 18-243-14-51, DB 20400 PG 96, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 2, BLOCK "A"
 - #5-MARLIN VENTURES, LLC, TAX PARCEL ID: 18-243-14-50, DB 27288 PG 54, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 8, BLOCK "A"





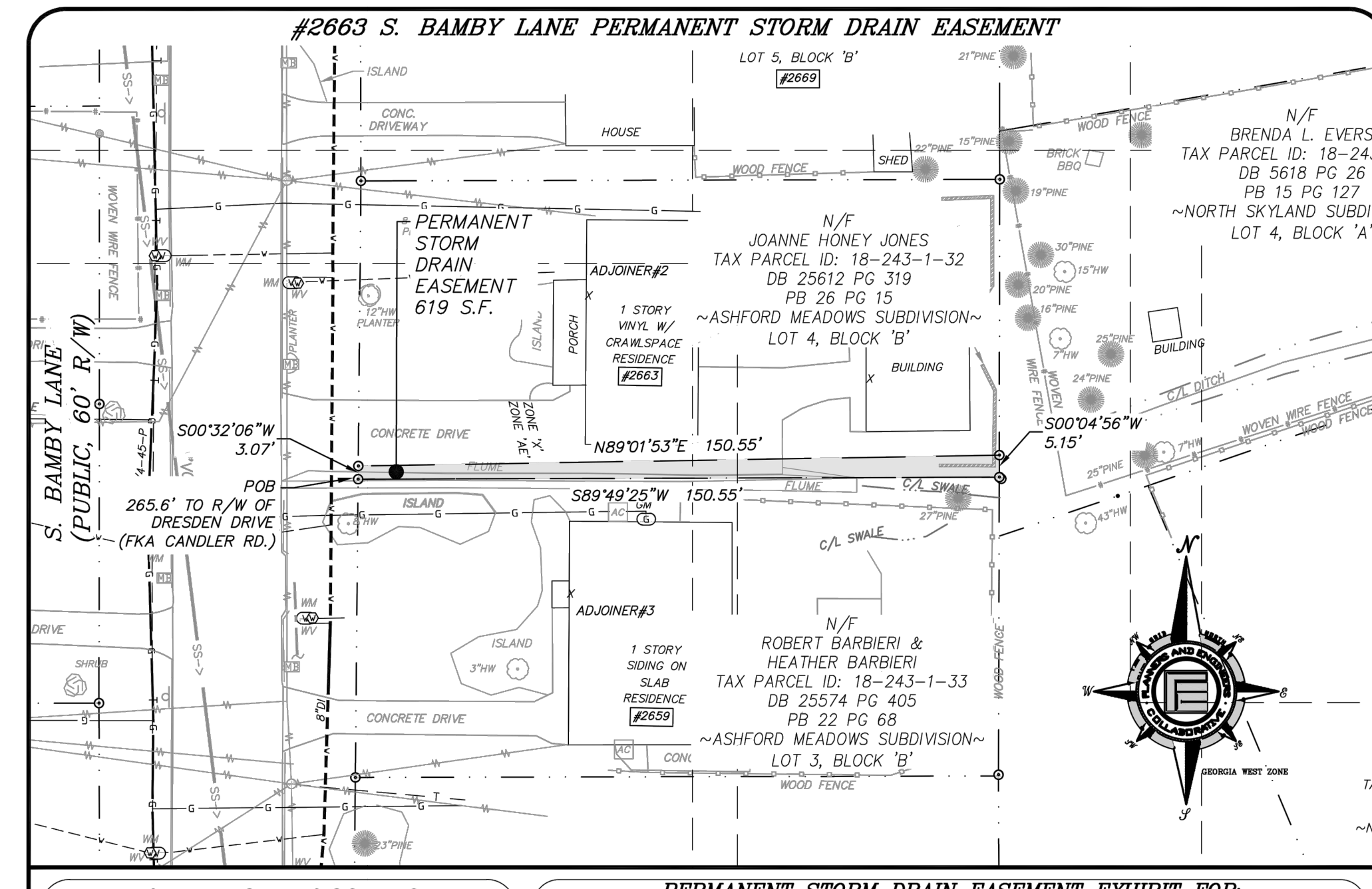
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PERMANENT STORM DRAIN EASEMENT EXHIBIT FOR:
THE CITY OF BROOKHAVEN
"THROUGH THE PROPERTY OF ROBERT BARBIERI & HEATHER BARBIERI"

COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

DRAWN BY: MN
CHECKED BY: JH
FILE NO.: 19051.00
DATE: 06/17/19
SCALE: 1"=30'



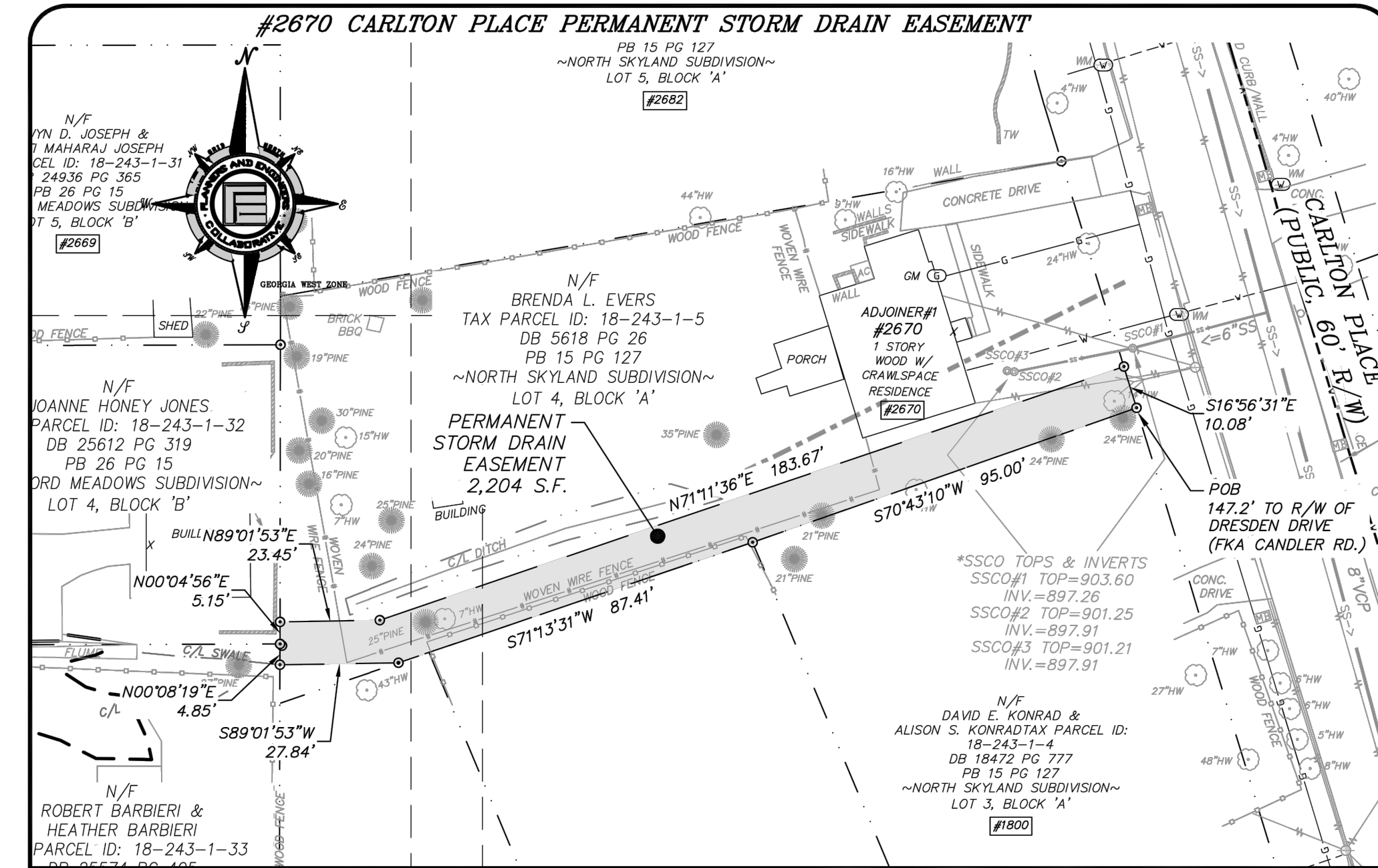
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PERMANENT STORM DRAIN EASEMENT EXHIBIT FOR:
THE CITY OF BROOKHAVEN
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COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

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PERMANENT STORM DRAIN EASEMENT EXHIBIT FOR:
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"THROUGH THE PROPERTY OF BRENDA L. EVERS"

COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

DRAWN BY: MN
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DATE: 06/17/19
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FOR
CITY OF BROOKHAVEN
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BROOKHAVEN, GA 30319
PHONE: 404-637-0500

LAND LOT 243
18TH DISTRICT

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PERMANENT STORM DRAIN EASEMENTS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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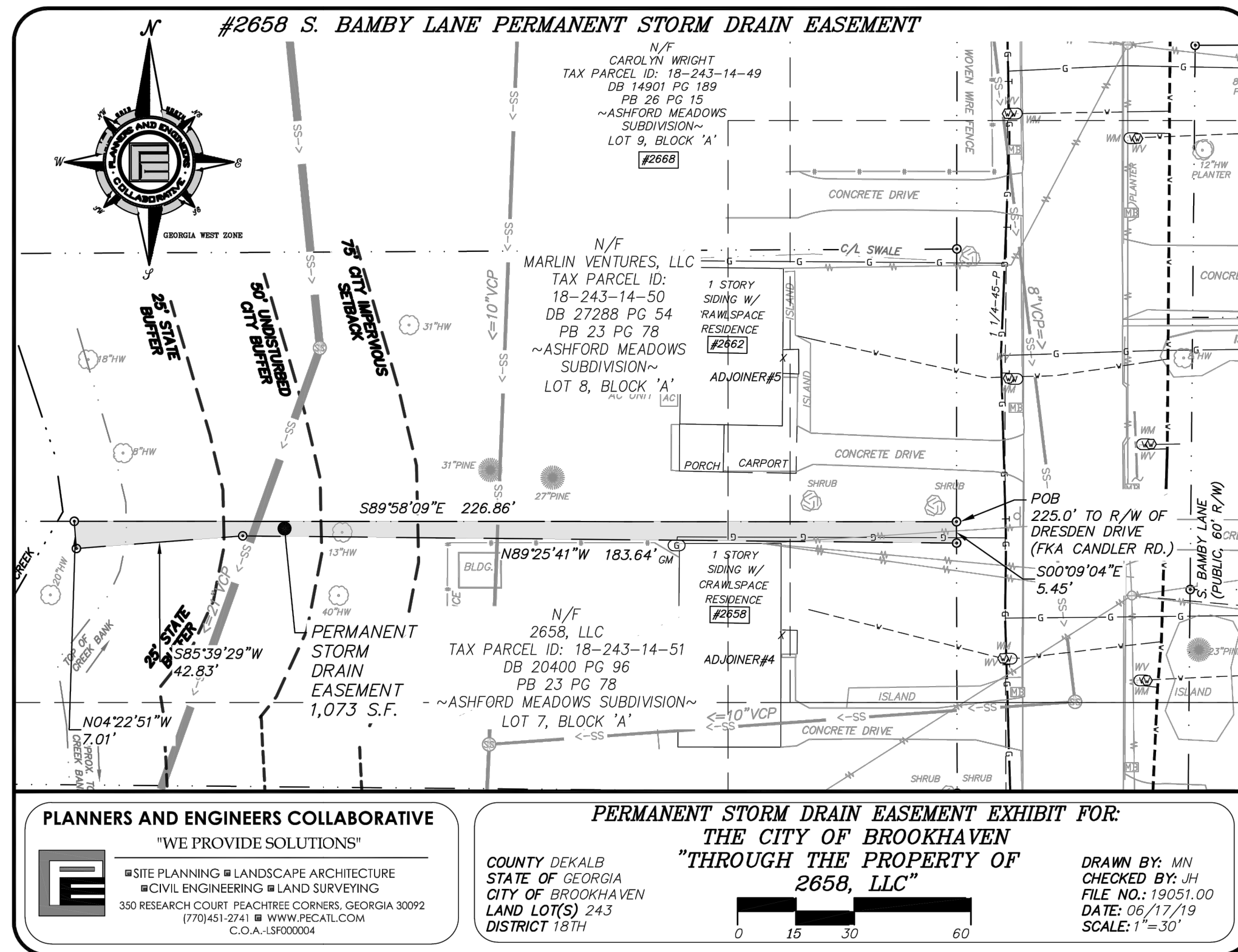
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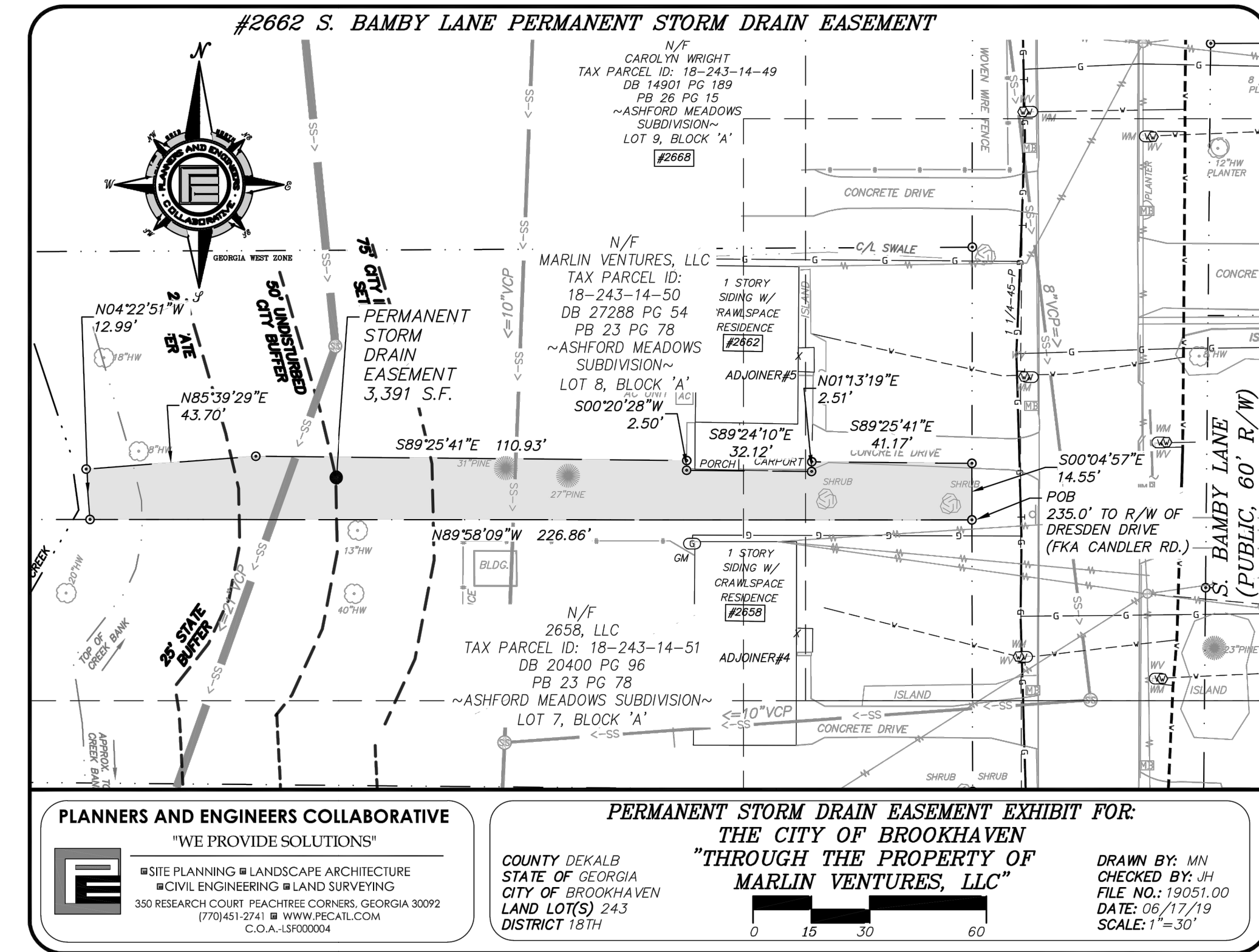
#2658 S. BAMBY LANE PERMANENT STORM DRAIN EASEMENT

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 243 of the 18th District, City of Brookhaven, DeKalb County, Georgia and being more particularly described as follows:

COMMENCING at a point at the intersection of the Northwestern Right of Way Line of Dresden Drive (Public, FKA Candler Road, Variable R/W) and the Westerly Right of Way Line of S. Bamby Lane (Public, 60' R/W); thence leaving said intersection and following along said Westerly Right of Way Line of S. Bamby Lane in a northerly direction 225.0' feet to a point, said point being the TRUE POINT OF BEGINNING.

Thence following along said Westerly Right of Way Line of S. Bamby Lane South 00 degrees 09 minutes 04 seconds East, a distance of 5.45 feet to a point; thence leaving said Westerly Right of Way Line of S. Bamby Lane North 89 degrees 25 minutes 41 seconds West, a distance of 183.64 feet to a point; thence South 85 degrees 39 minutes 29 seconds West, a distance of 42.83 feet to a point; thence North 04 degrees 22 minutes 51 seconds West, a distance of 7.01 feet to a point; thence South 89 degrees 58 minutes 09 seconds East, a distance of 226.86 feet to a point on the Easterly Right of Way Line of S. Bamby Lane, which is the TRUE POINT OF BEGINNING.

Said Permanent Easement having an area of 1,073 square feet.



#2662 S. BAMBY LANE PERMANENT STORM DRAIN EASEMENT

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 243 of the 18th District, City of Brookhaven, DeKalb County, Georgia and being more particularly described as follows:

COMMENCING at a point at the intersection of the Northwestern Right of Way Line of Dresden Drive (Public, FKA Candler Road, Variable R/W) and the Westerly Right of Way Line of S. Bamby Lane (Public, 60' R/W); thence leaving said intersection and following along said Westerly Right of Way Line of S. Bamby Lane in a northerly direction 225.0' feet to a point, said point being the TRUE POINT OF BEGINNING.

Thence leaving said Westerly Right of Way Line of S. Bamby Lane North 89 degrees 58 minutes 09 seconds West, a distance of 226.86 feet to a point; thence North 04 degrees 22 minutes 51 seconds West, a distance of 12.99 feet to a point; thence North 85 degrees 39 minutes 29 seconds East, a distance of 43.70 feet to a point; thence South 89 degrees 25 minutes 41 seconds East, a distance of 110.93 feet to a point; thence South 00 degrees 20 minutes 28 seconds West, a distance of 2.50 feet to a point; thence South 89 degrees 24 minutes 10 seconds East, a distance of 32.12 feet to a point; thence North 01 degrees 13 minutes 19 seconds East, a distance of 2.51 feet to a point; thence South 89 degrees 25 minutes 41 seconds East, a distance of 41.17 feet to a point on the Westerly Right of Way Line of S. Bamby Lane; thence following along said Westerly Right of Way Line of S. Bamby Lane South 00 degrees 04 minutes 57 seconds East, a distance of 14.55 feet to a point, which is the TRUE POINT OF BEGINNING.

Said Permanent Easement having an area of 3,391 square feet.

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
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 FOR
 CITY OF BROOKHAVEN
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 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500

LAND LOT 243
 18TH DISTRICT
 CITY OF BROOKHAVEN
 DEKALB COUNTY
 GEORGIA

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PERMANENT STORM EASEMENTS

SCALE: N/A
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 PROJECT: 19051.00

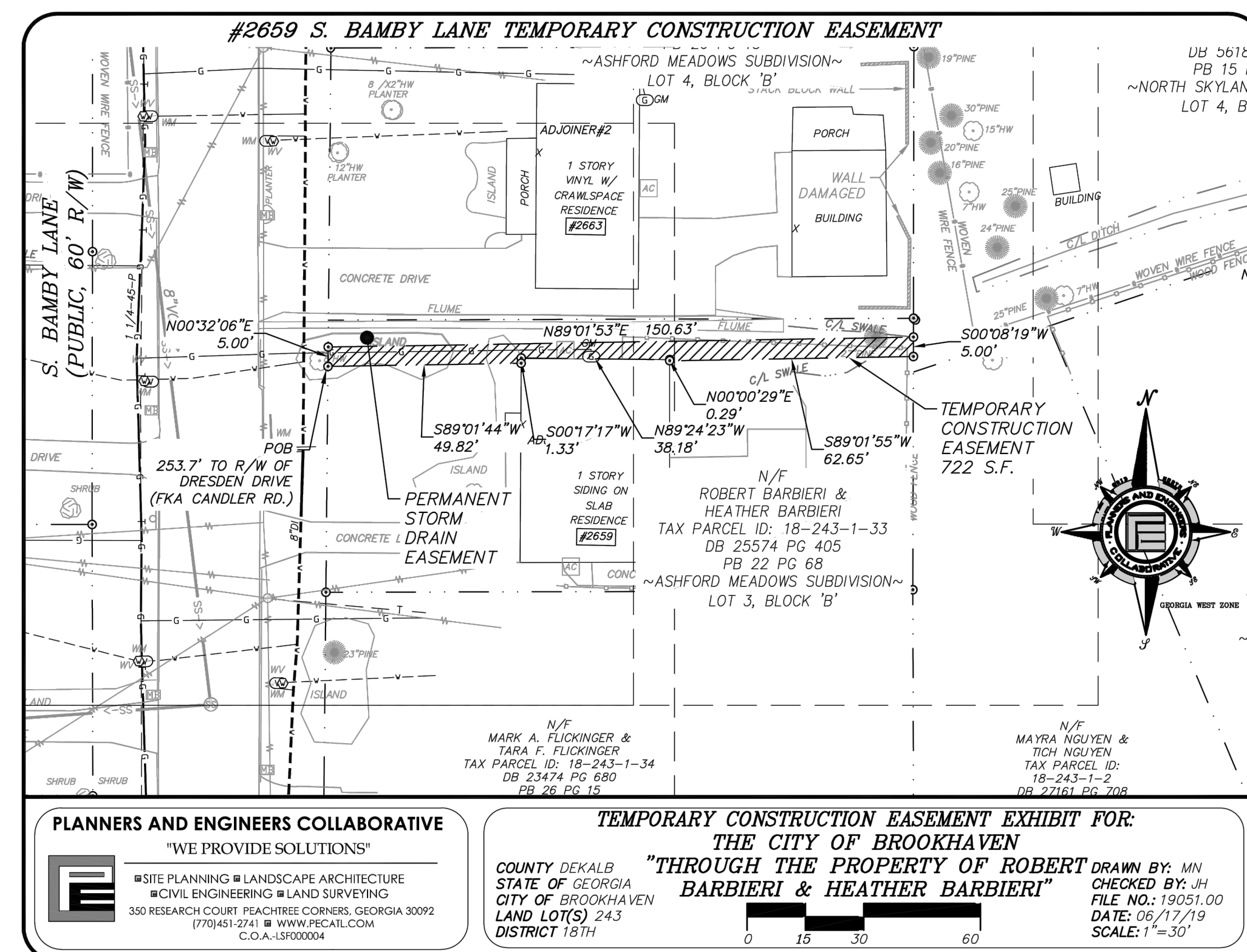
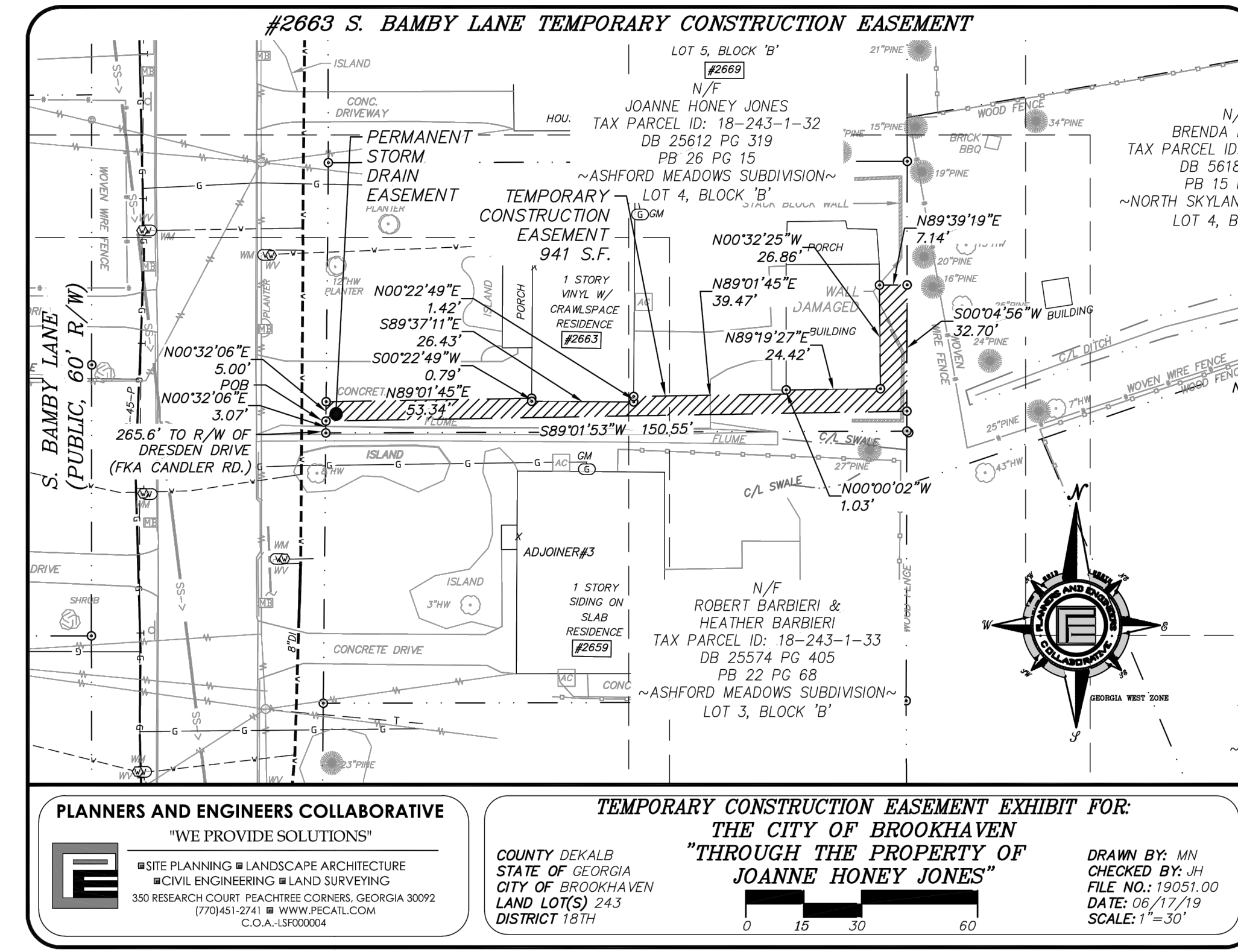
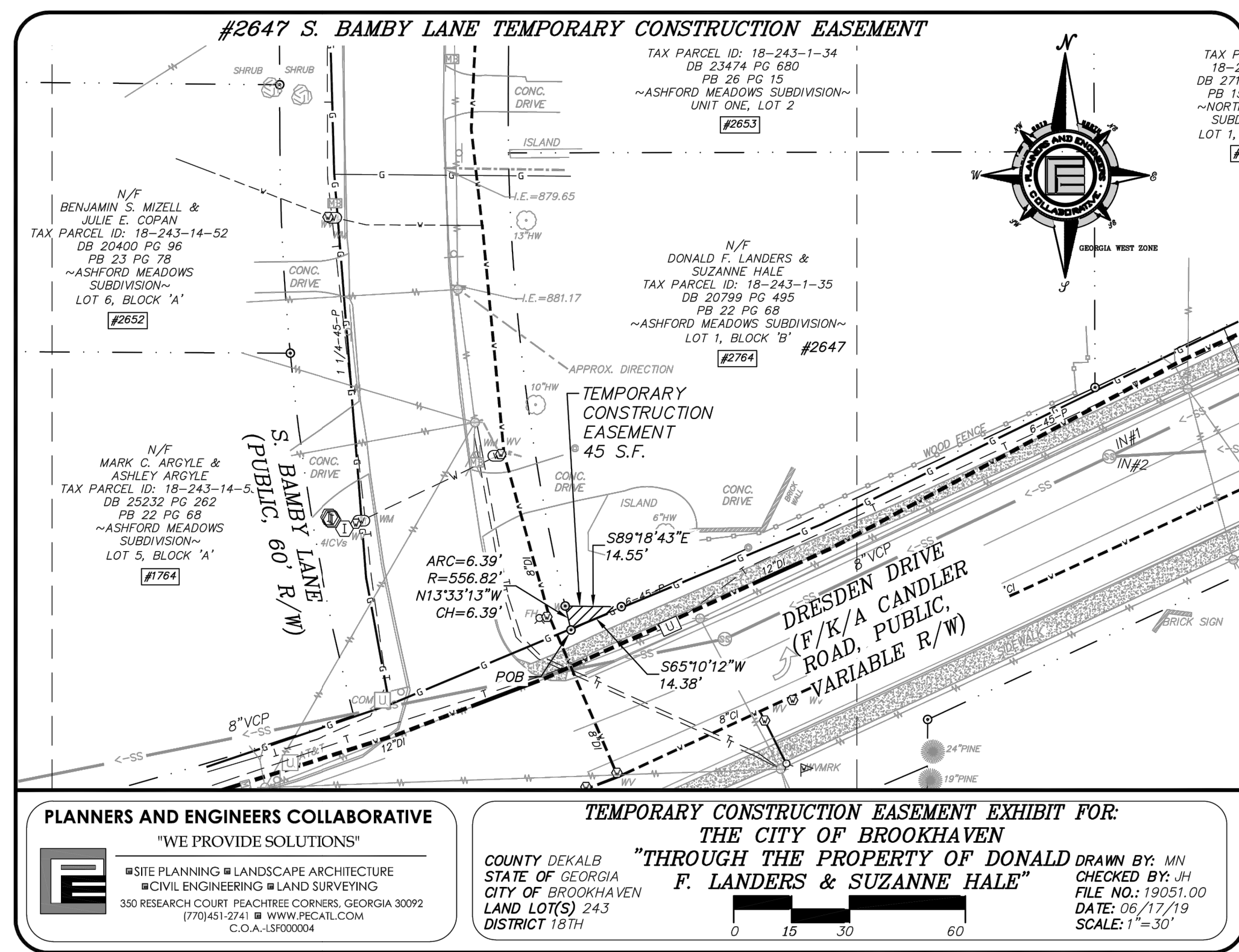
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FOR
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LAND LOT 243
18TH DISTRICT

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TEMPORARY CONSTRUCTION EASEMENTS

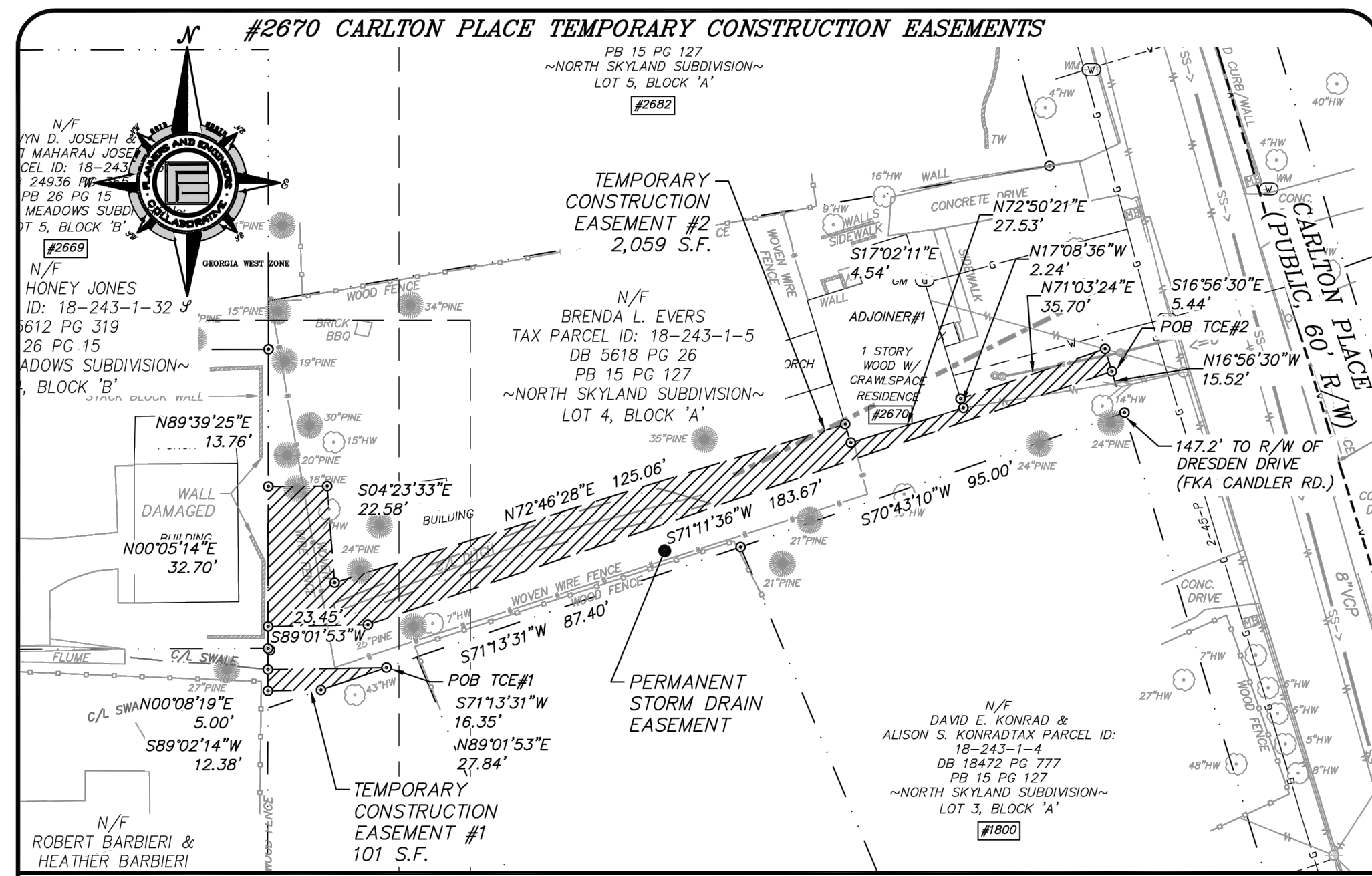
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REGISTERED PROFESSIONAL ENGINEER
MEL M. SCHMIDT
No. 34289
01/10/2020

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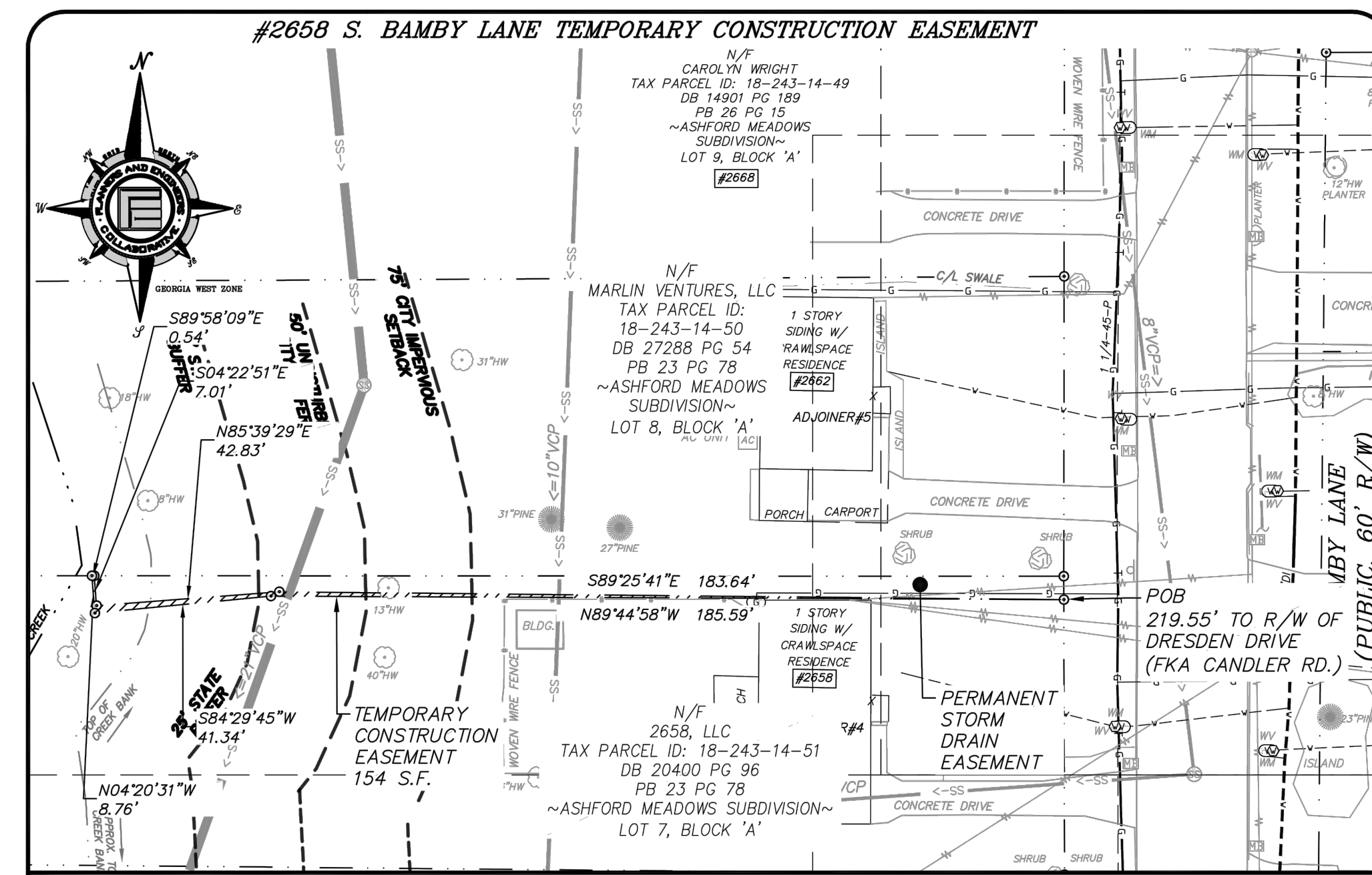
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**TEMPORARY CONSTRUCTION EASEMENT EXHIBIT FOR:
THE CITY OF BROOKHAVEN
"THROUGH THE PROPERTY OF
BRENDA L. EVERS"**

COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

DRAWN BY: MN
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FILE NO.: 19051.00
DATE: 06/17/19
SCALE: 1"=30'



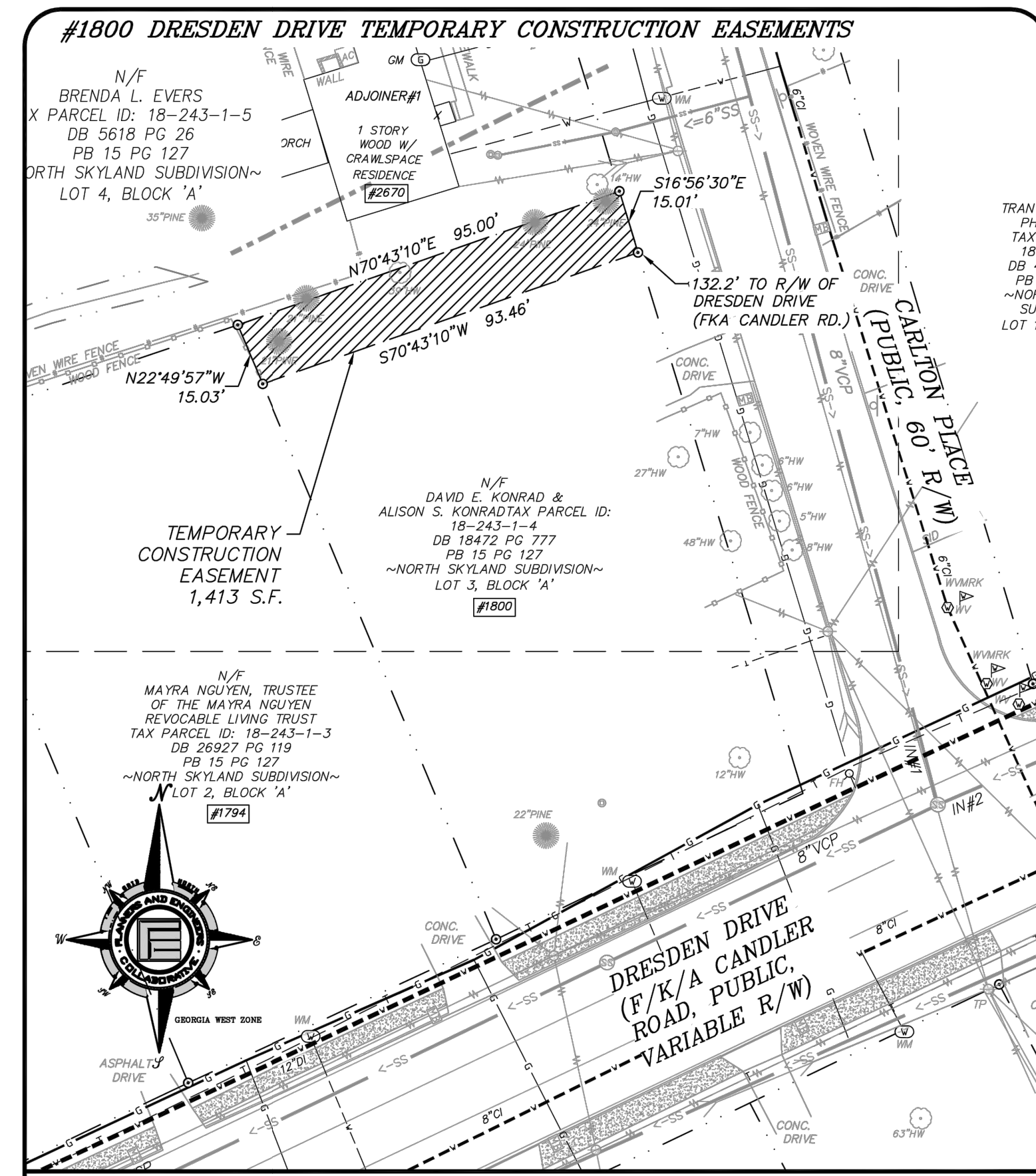
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**TEMPORARY CONSTRUCTION EASEMENT EXHIBIT FOR:
THE CITY OF BROOKHAVEN
"THROUGH THE PROPERTY OF
2658, LLC"**

COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

DRAWN BY: MN
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FILE NO.: 19051.00
DATE: 06/17/19
SCALE: 1"=30'

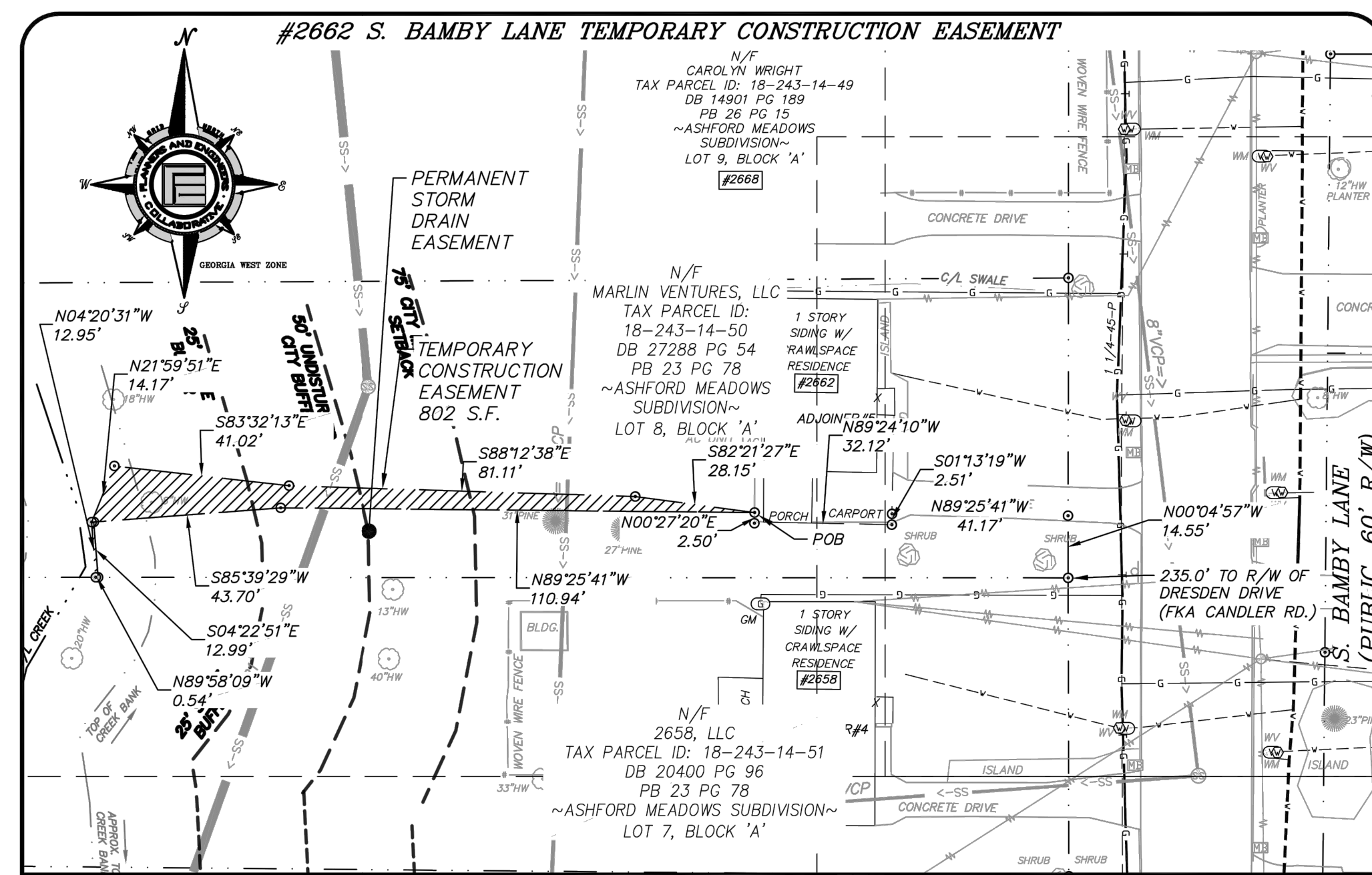


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TEMPORARY CONSTRUCTION EASEMENT EXHIBIT FOR THE CITY OF BROOKHAVEN "THROUGH THE PROPERTY OF THE KONRADS"

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DATE: 09/17/2019
SCALE: 1"=30'



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**TEMPORARY CONSTRUCTION EASEMENT EXHIBIT FOR:
THE CITY OF BROOKHAVEN
"THROUGH THE PROPERTY OF
MARLIN VENTURES, LLC"**

COUNTY DEKALB
STATE OF GEORGIA
CITY OF BROOKHAVEN
LAND LOT(S) 243
DISTRICT 18TH

DRAWN BY: MN
CHECKED BY: JH
FILE NO.: 19051.00
DATE: 06/17/19
SCALE: 1"=30'



**24-HOUR CONTACT:
DON SHERRILL
404-991-4763**

REVISIONS:

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3	01-10-20	MS	CITY COMMENTS

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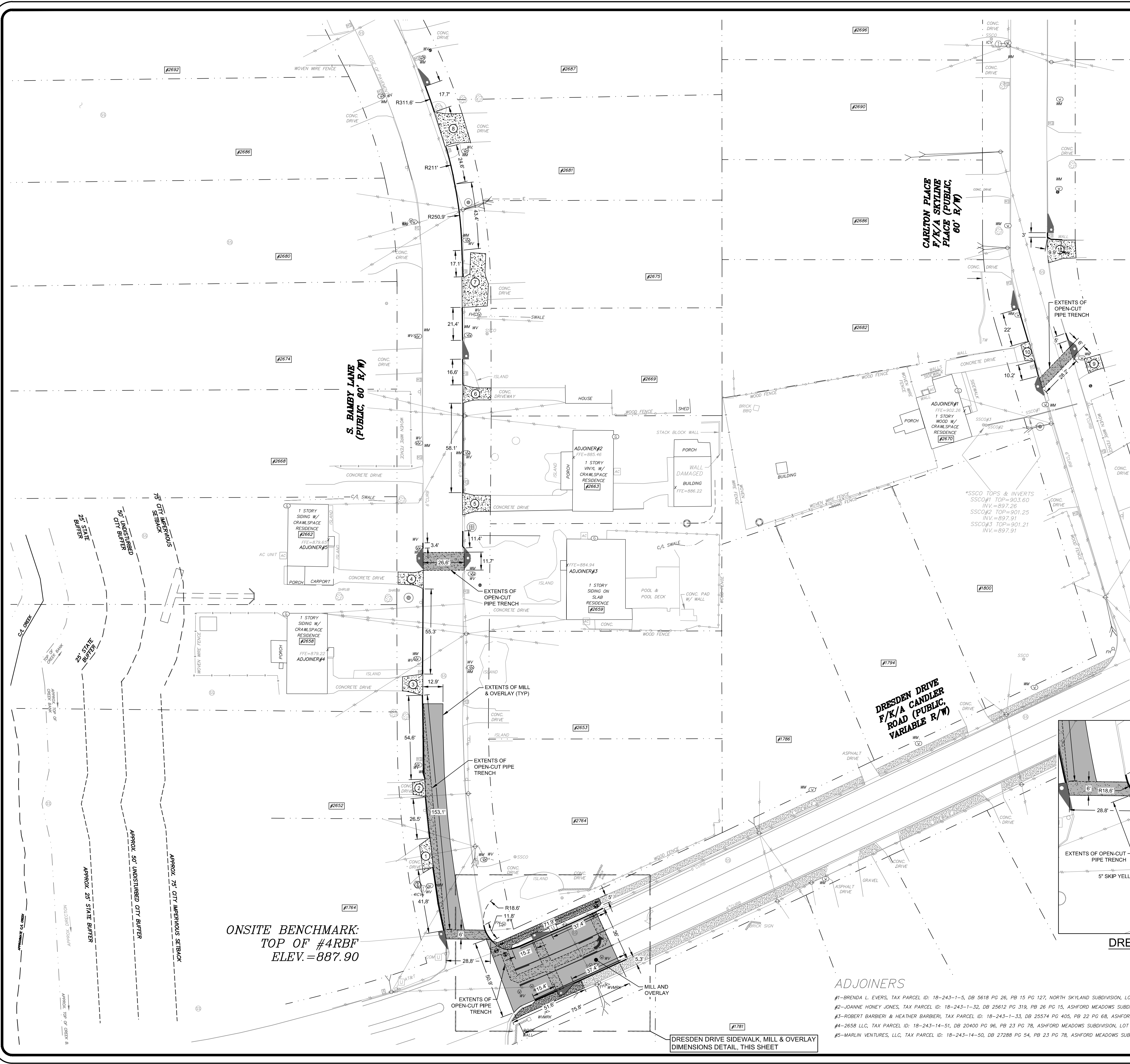
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DATE: 06/12/2019
PROJECT: 19051.00

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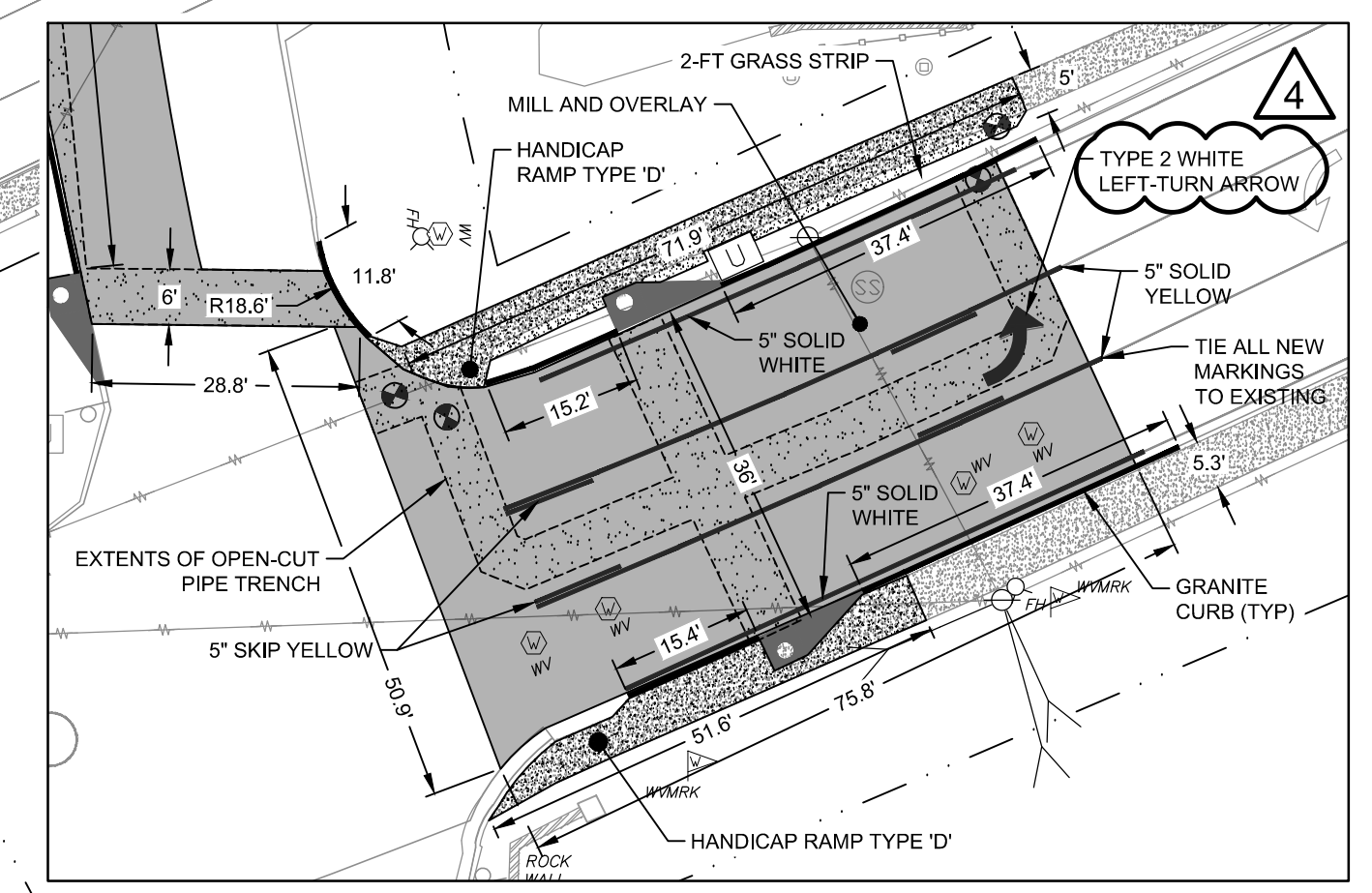
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- SITE NOTES:**
1. ALL STRIPING AND ARROWS TO MEET GEORGIA DOT STANDARDS.
 2. PRIOR TO THE DEDICATION AND ACCEPTANCE OF SANITARY SEWER, STORM SEWER AND/OR STREET INFRASTRUCTURE TO THE CITY OF BROOKHAVEN, "AS-BUILT" DRAWINGS AND 3-YEAR MAINTENANCE BONDS ARE REQUIRED. THE STREET CONSTRUCTION SHALL DEMONSTRATE ADEQUATE COMPACTION WITH PROFESSIONAL TESTING AND REPORTS PREPARED BY A GEORGIA REGISTERED PROFESSIONAL CIVIL ENGINEER.
 3. INSTALLATION OF SIDEWALK ALONG PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF CITY OF BROOKHAVEN CODE, SIDEWALKS AND CONCRETE CURB AND GUTTER SHALL CONFORM TO THE CITY OF BROOKHAVEN STANDARD DETAILS.
 4. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF BROOKHAVEN, GEORGIA REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 5. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
 6. SITE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS INDICATING ALL CHANGES AND DEVIATIONS TO CITY OF BROOKHAVEN BEFORE PROJECT CLOSEOUT. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC., GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 8. ALL TEMPORARY AND PERMANENT SIGNS SHALL BE PERMITTED SEPARATELY.
 9. OPEN BURNING OR BURY PITS ARE NOT ALLOWED.
 10. THERE ARE NO KNOWN WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY MAP.
 11. ALL TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL INSTALLATION MATERIALS AND METHODS SHALL CONFORM TO GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS INCLUDING SPECIAL PROVISIONS.
 12. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
 13. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING TRAFFIC CONTROL SIGNS THROUGHOUT CONSTRUCTION, INCLUDING CLEANING AND REPLACEMENT IF SIGNS ARE DIRTIED AND/OR DAMAGED DURING CONSTRUCTION.
 14. ALL EXISTING SIGNS SHALL BE REMOVED, CLEANED, AND RESET. CLEANING AND RESET INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC / PROJECT SIGNAGE.

DRIVEWAY REPAIR AREAS

Driveway No.	Area (SF)
1	134.1
2	75.5
3	148.8
4	142.6
5	207.9
6	158.5
7	478.5
8	343.0
9	97.8
10	70.0
11	235.2



DRESDEN DRIVE - SIDEWALK, MILL & OVERLAY DIMENSIONS DETAIL
SCALE: 1" = 20'

- ADJOINERS**
- #1-BRENDA L. EVERS, TAX PARCEL ID: 18-243-1-5, DB 5618 PG 26, PB 15 PG 127, NORTH SKYLAND SUBDIVISION, LOT 4, BLOCK "A"
 - #2-JOANNE HONEY JONES, TAX PARCEL ID: 18-243-1-32, DB 25612 PG 319, PB 26 PG 15, ASHFORD MEADOWS SUBDIVISION, LOT 4, BLOCK "B"
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 - #4-2658 LLC, TAX PARCEL ID: 18-243-14-51, DB 20400 PG 96, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 7, BLOCK "A"
 - #5-MARLIN VENTURES, LLC, TAX PARCEL ID: 18-243-14-50, DB 27288 PG 54, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 8, BLOCK "A"

ONSITE BENCHMARK:
TOP OF #4RBF
ELEV. = 887.90

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
FOR
A MASTER PLANNED RESIDENTIAL DEVELOPMENT
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

LAND LOT 243
18TH DISTRICT

PLANNERS AND ENGINEERS COLLABORATIVE
SITE PLANNING LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND SURVEYING
350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092 (770) 451-2741 FAX (770) 451-9515

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3	01-10-20	MS	CITY COMMENTS
4	01-24-20	MS	CITY COMMENTS

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BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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PAVEMENT, SIDEWALK & CURB REPLACEMENT PLAN

SCALE: 1" = 30'
DATE: 06/12/2019
PROJECT: 19051.00

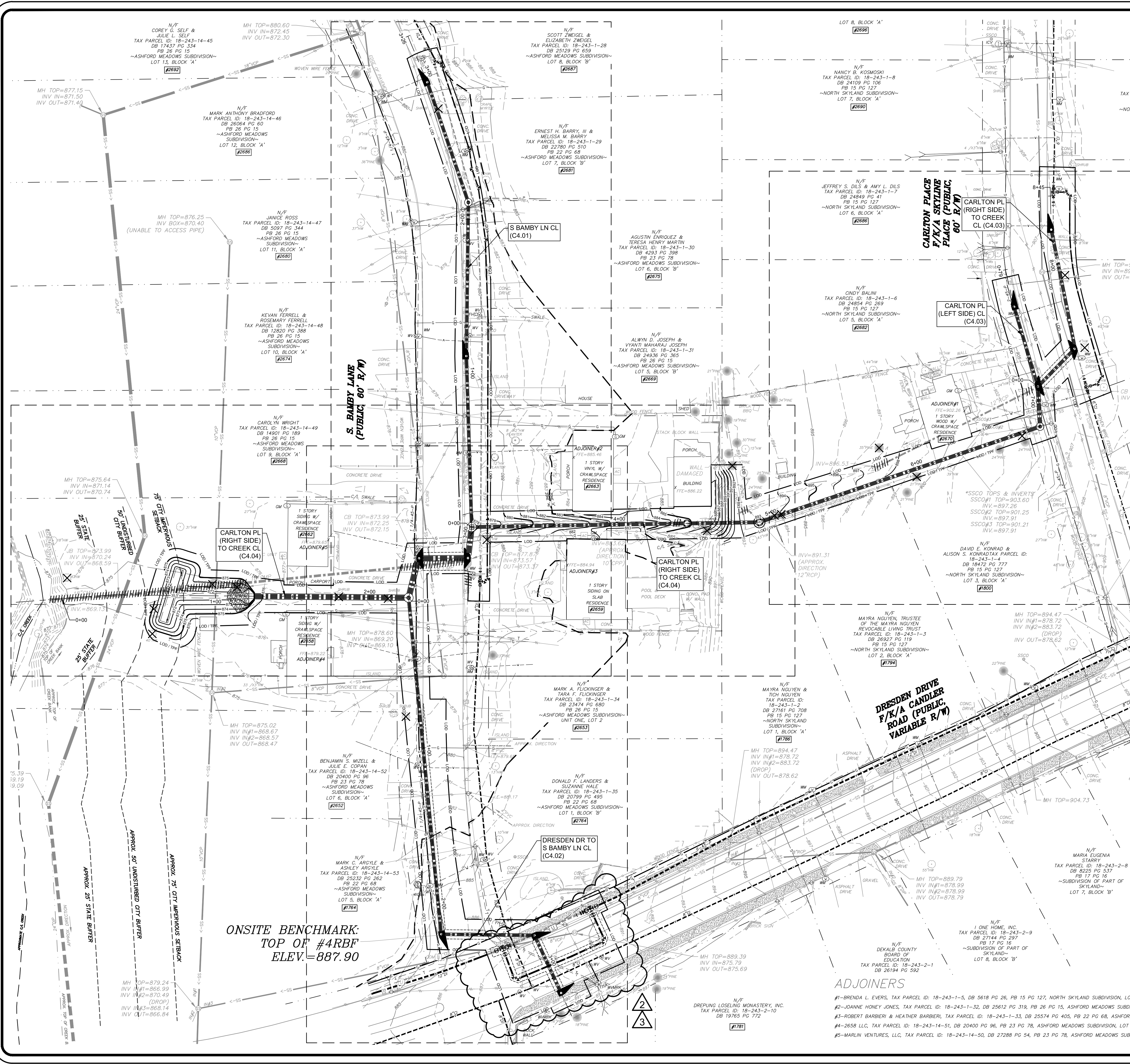
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
MEL M. SCHMIDT
01/24/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

GEORGIA811
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C3.00
SHEET 3



ONSITE BENCHMARK:
TOP OF #ARB
ELEV. = 887.90

- GRADING NOTES:**
- DISTURBED AREAS LEFT IDLE FOR FOURTEEN DAYS, AND NOT TO FINAL GRADE. SHALL BE ESTABLISHED TO TEMPORARY VEGETATION (D&3). DISTURBED AREAS LEFT IDLE FOUR WEEKS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION (D&3). ALL AREAS TO FINAL GRADE SHALL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN TWO WEEKS.
 - WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDING AREA WITHIN 24 HOURS OF SEEDING.
 - DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER (D&1). ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH SHALL BE ANCHORED.
 - CITY OF BROOKHAVEN LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON THE SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.
 - SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE.
 - ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF BROOKHAVEN GEORGIA REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 - EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS NECESSARY.
 - SITE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS INDICATING ANY AND/OR ALL CHANGES/DEVIATIONS FROM THE APPROVED CONSTRUCTION DRAWING SET.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC., GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 - OPEN BURNING OR BURY PITS ARE NOT ALLOWED.
 - THERE ARE NO KNOWN WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY MAP.

- EXISTING UTILITIES NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES.
 - SEE UTILITY PLANS ON SHEETS C5.00-C5.03 FOR ADDITIONAL WATER AND UTILITY RELOCATION REQUIREMENTS.

EARTHWORK CALCULATIONS 1/10/2020

Design Volumes:

Grading Area = 6,706 SF

Cut	=	233 CY
Fill	=	24 CY

Adjustments:

Compaction	1.15 Fill Factor	27 CY x 1.15 =	31 CY
Pipes	315 CY Volume of GAB/Cusher Run Bedding		
	191 CY Volume of Pipes		
	Total Volume of Bedding and Pipes =		506 CY

Adjusted Volumes:

Total Adjusted Cut =	739 CY
Total Adjusted Fill =	31 CY
Net Volume =	708 CY

CONTRACTOR SHALL PERFORM AND CONCLUDE EARTHWORK CALCULATIONS INDEPENDENTLY AND SHALL NOT RELY ON THESE OPINION OF VOLUMES.

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
FOR
A MASTER PLANNED RESIDENTIAL DEVELOPMENT
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

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LAND LOT 243
18TH DISTRICT
CITY OF BROOKHAVEN
DEKALB COUNTY
GEORGIA

REVISIONS:

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3	01-10-20	MS	CITY COMMENTS

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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MASTER GRADING & STORM SEWER PLAN

SCALE: 1" = 30'
DATE: 06/12/2019
PROJECT: 19051.00

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24 HOUR CONTACT:
DON SHERRILL @ 404-991-4763

1/10/2020, 10:00 AM
1/10/2020, 10:37 AM

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www.Georgia811.com
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DON SHERRILL @ 404-991-4763

1/10/2020, 10:00 AM
1/10/2020, 10:37 AM

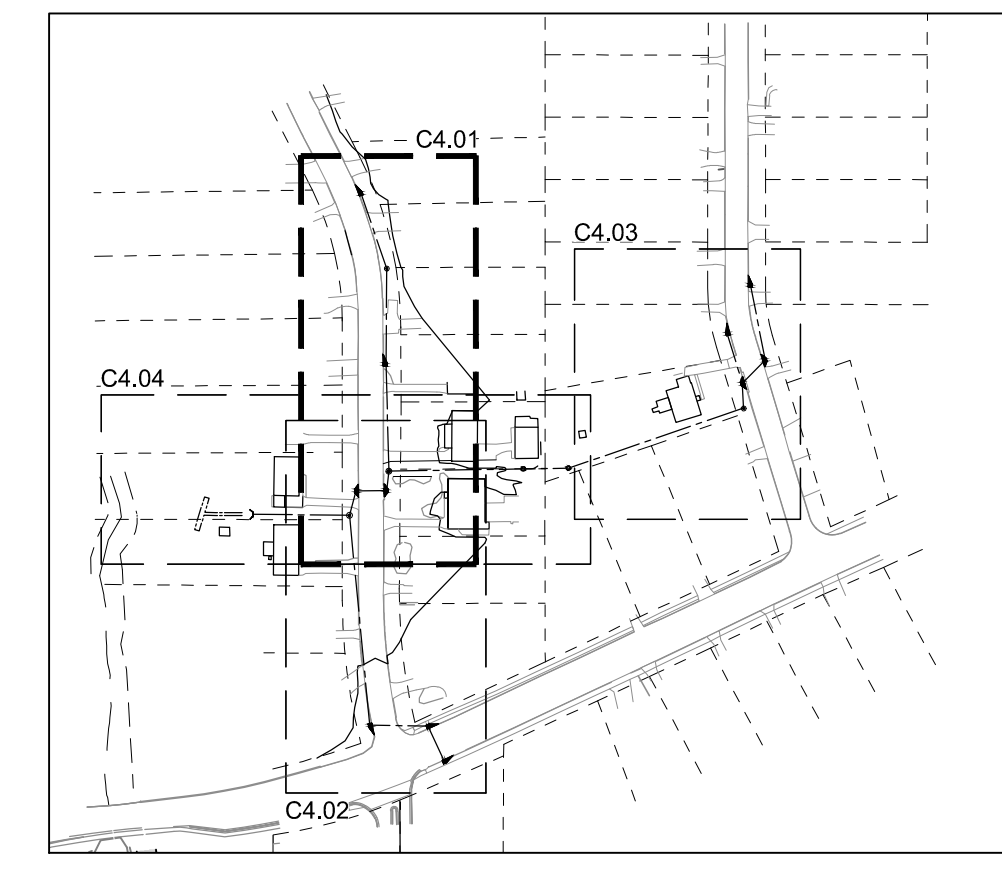
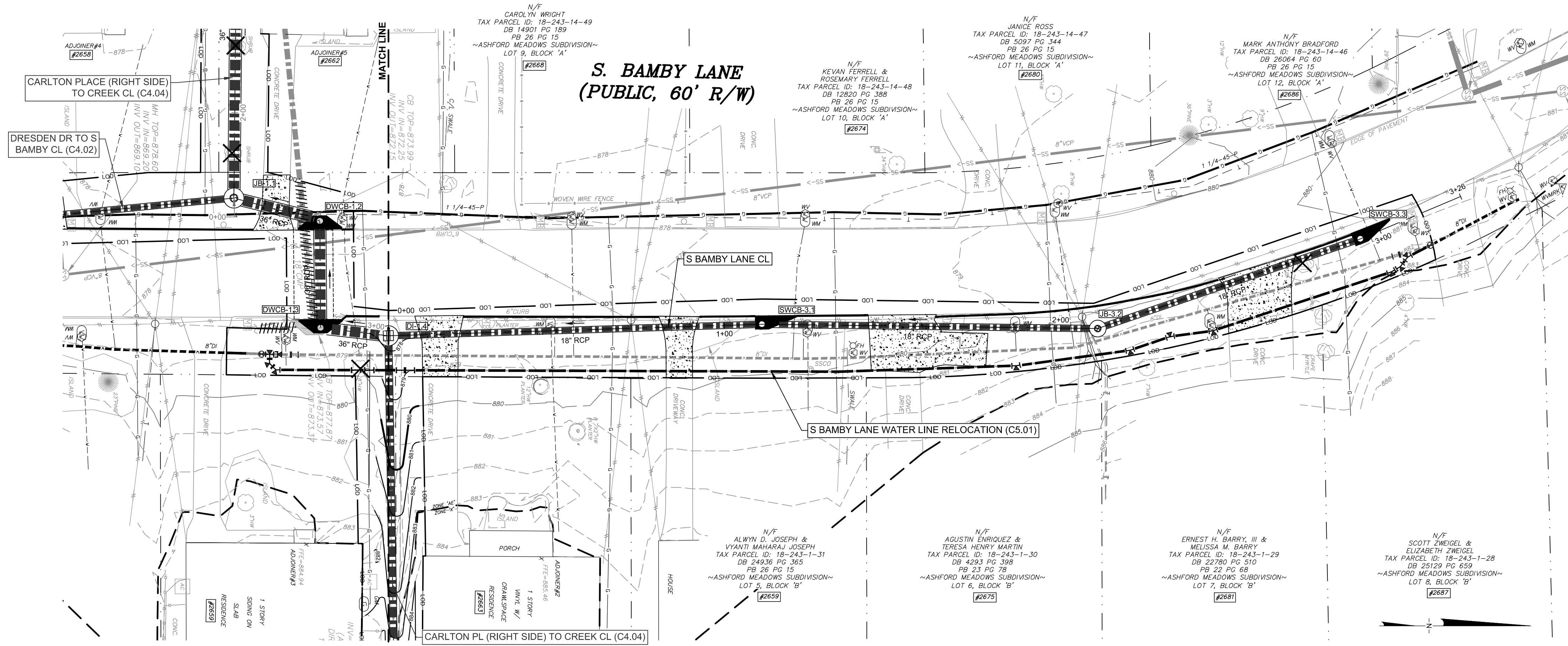
GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

GEORGIA 811
REGISTERED PROFESSIONAL ENGINEER
No. 3420
WILL M. SCHMIDT
1/10/2020

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CERTIFICATION # 0000067548 EXP. 12/21/2021

C4.00
SHEET

APPROVED PLAN 1/10/2020
Permit # LDP19-00049



KEY MAP
SCALE: 1" = 20'

- EXISTING UTILITIES NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
 3. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES.
 4. SEE UTILITY PLANS ON SHEETS C5.00-C5.03 FOR WATER AND UTILITY RELOCATION REQUIREMENTS.

ADJOINERS

#1-BRENDA L. EVERS, TAX PARCEL ID: 18-243-1-5, DB 5618 PG 26, PB 15 PG 127, NORTH SKYLAND SUBDIVISION, LOT 4, BLOCK 'A'
 #2-JOANNE HONEY JONES, TAX PARCEL ID: 18-243-1-32, DB 25612 PG 319, PB 26 PG 15, ASHFORD MEADOWS SUBDIVISION, LOT 4, BLOCK 'B'
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 #4-2658 LLC, TAX PARCEL ID: 18-243-14-S1, DB 20400 PG 96, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 7, BLOCK 'A'
 #5-MARLIN VENTURES, LLC, TAX PARCEL ID: 18-243-14-50, DB 27288 PG 54, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 8, BLOCK 'A'

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 A MASTER PLANNED RESIDENTIAL DEVELOPMENT
 FOR
CITY OF BROOKHAVEN
 4362 PEACHTREE RD
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 PHONE: 404-637-0500

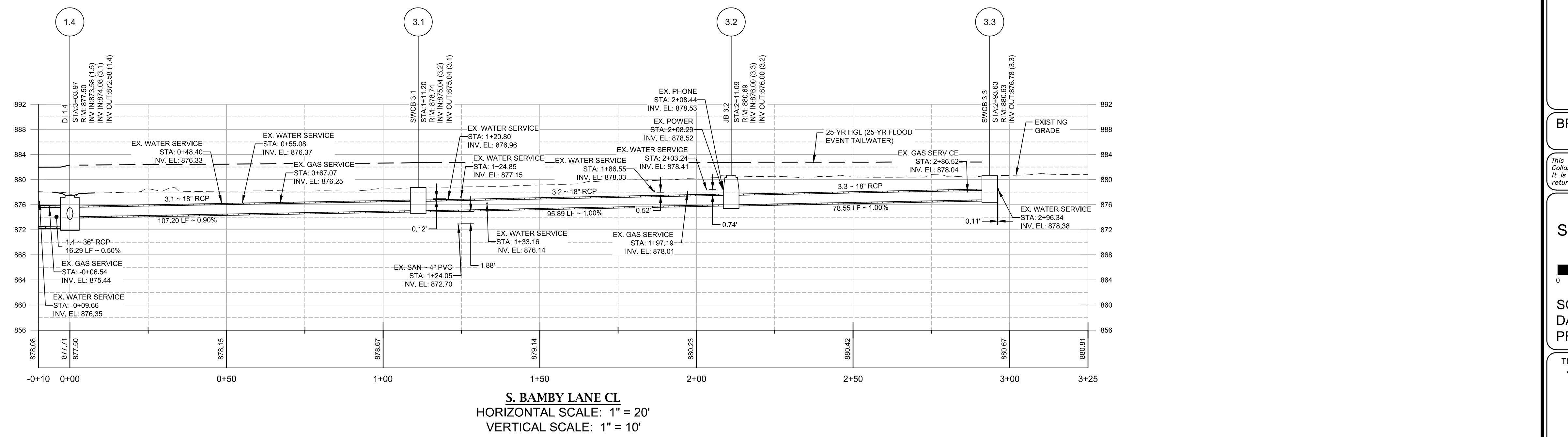
LAND LOT 243
18TH DISTRICT
DEKALB COUNTY
GEORGIA

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S. BAMBY LANE CL
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'

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GRADING & STORM SEWER PLAN & PROFILE

SCALE: 1" = 20'
 DATE: 06/12/2019
 PROJECT: 19051.00

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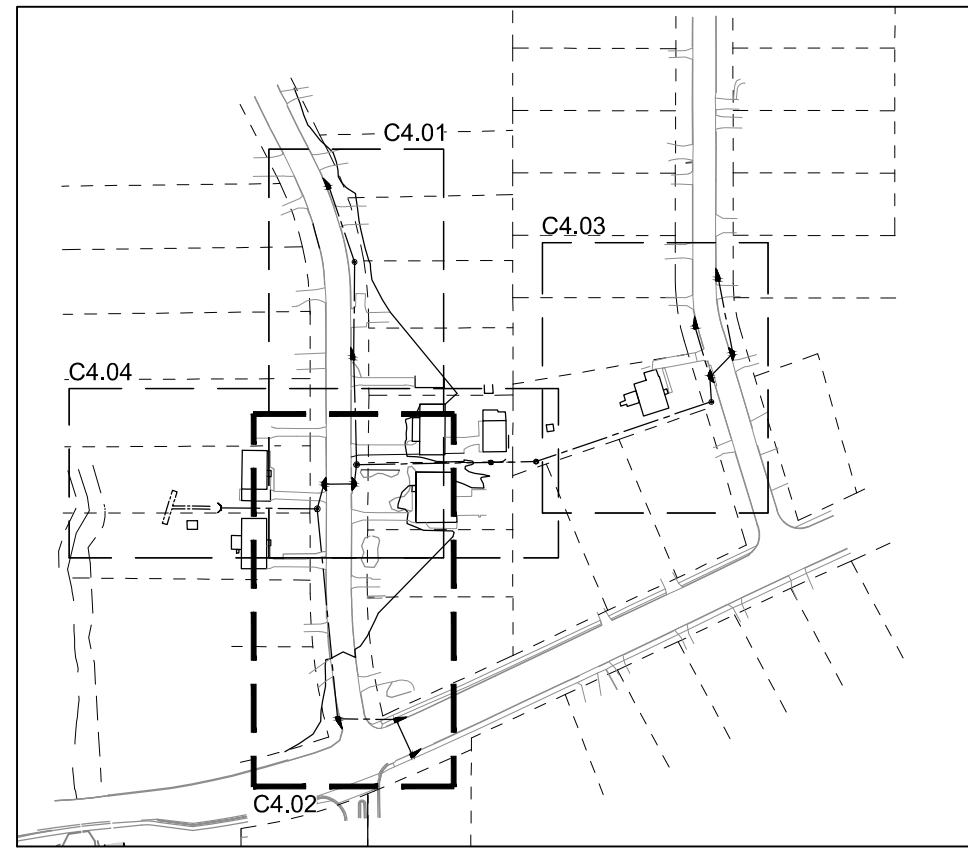
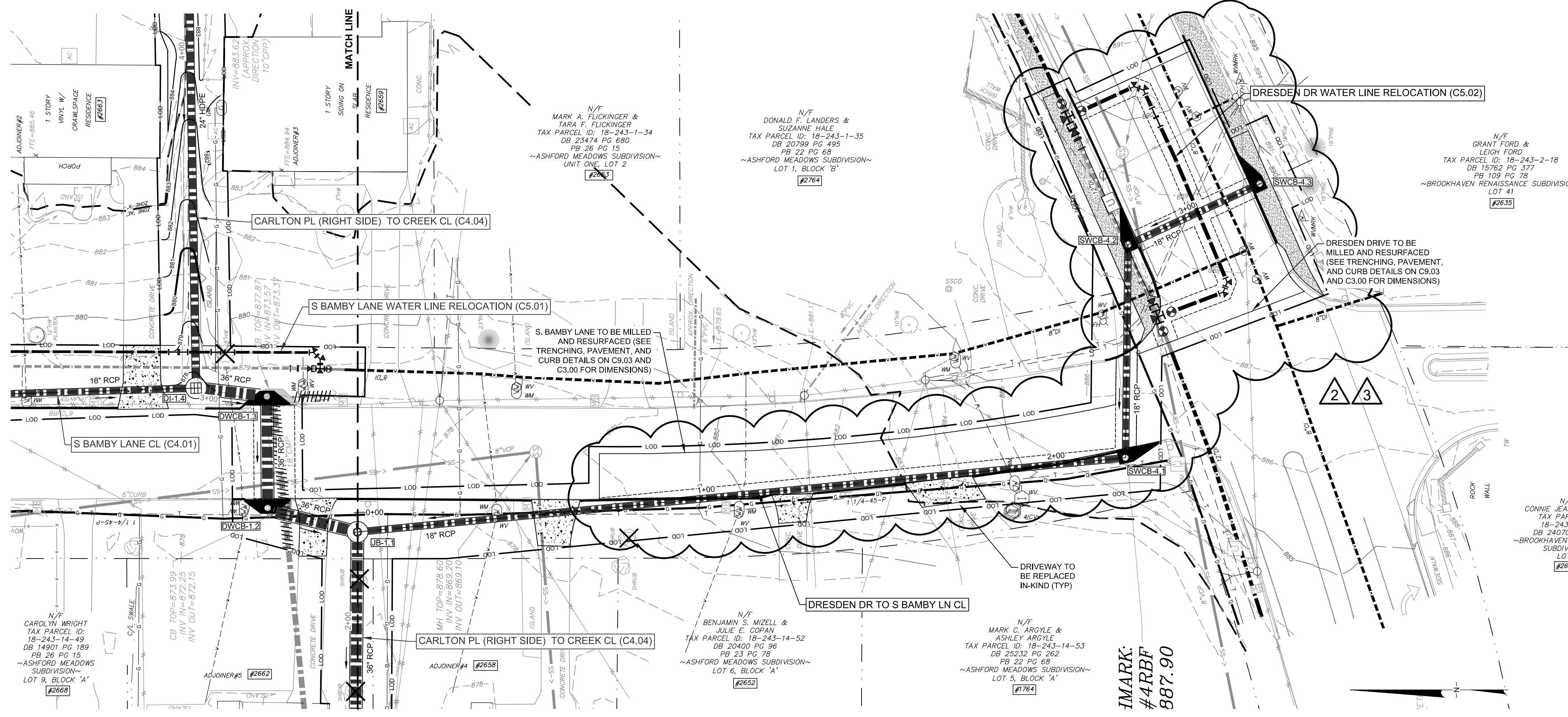
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 34209
 WEL M. SCHMIDT
 01/10/2020
 GSICC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

24 HOUR CONTACT:
 DON SHERRILL @ 404-991-4763



North arrow pointing up.

C4.01
SHEET



KEY MAP
SCALE: 1" = 200'

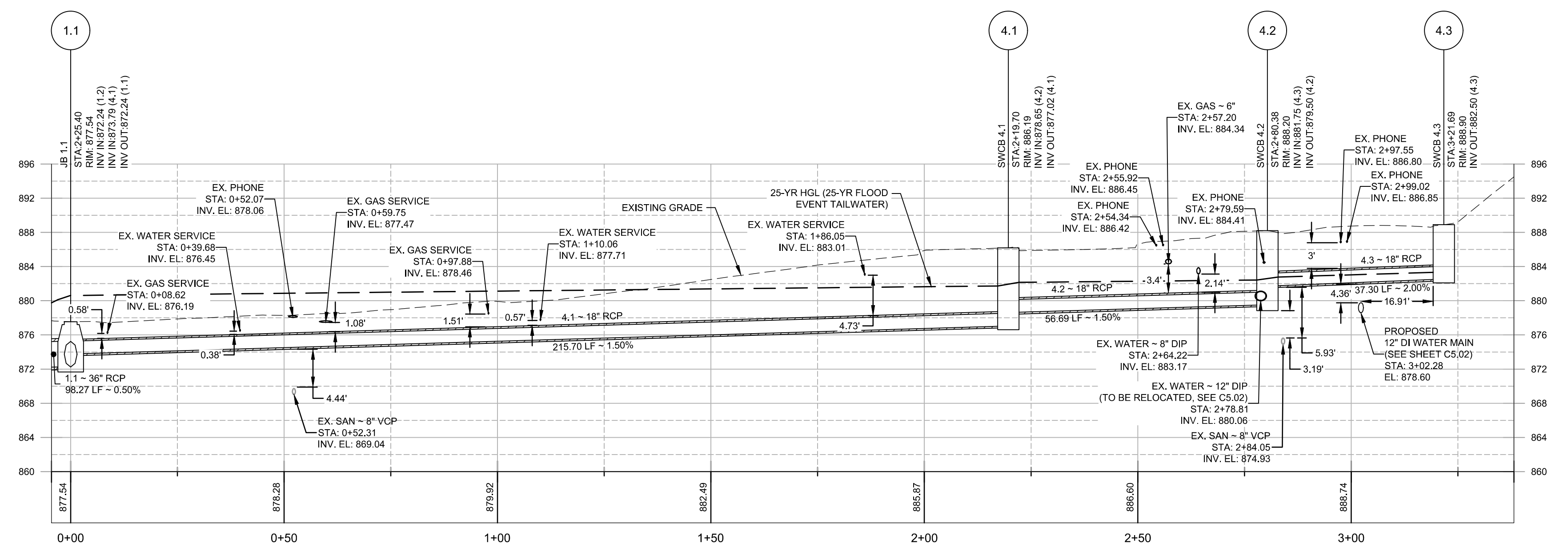
- EXISTING UTILITIES NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER. SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES.
 - SEE UTILITY PLANS ON SHEETS C5.00-C5.03 FOR WATER AND UTILITY RELOCATION REQUIREMENTS.

ADJOINERS

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- #5-MARLIN VENTURES, LLC, TAX PARCEL ID: 18-243-14-50, DB 27288 PG 54, PB 23 PG 78, ASHFORD MEADOWS SUBDIVISION, LOT 8, BLOCK "A"

REVISIONS:

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DRESDEN DR TO S BAMBY LN CL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

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GRADING & STORM SEWER PLAN & PROFILE



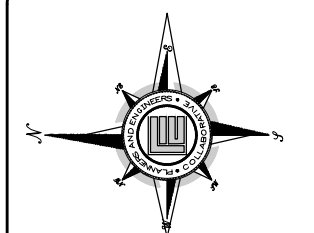
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PROJECT: 19051.00

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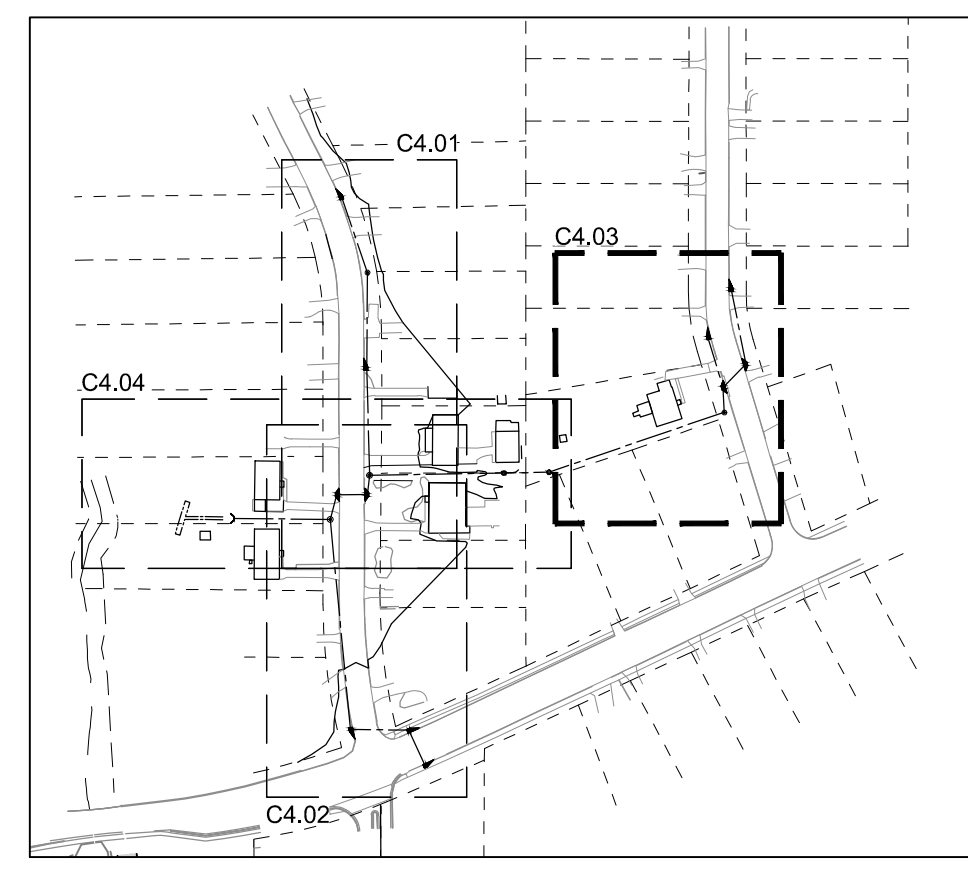
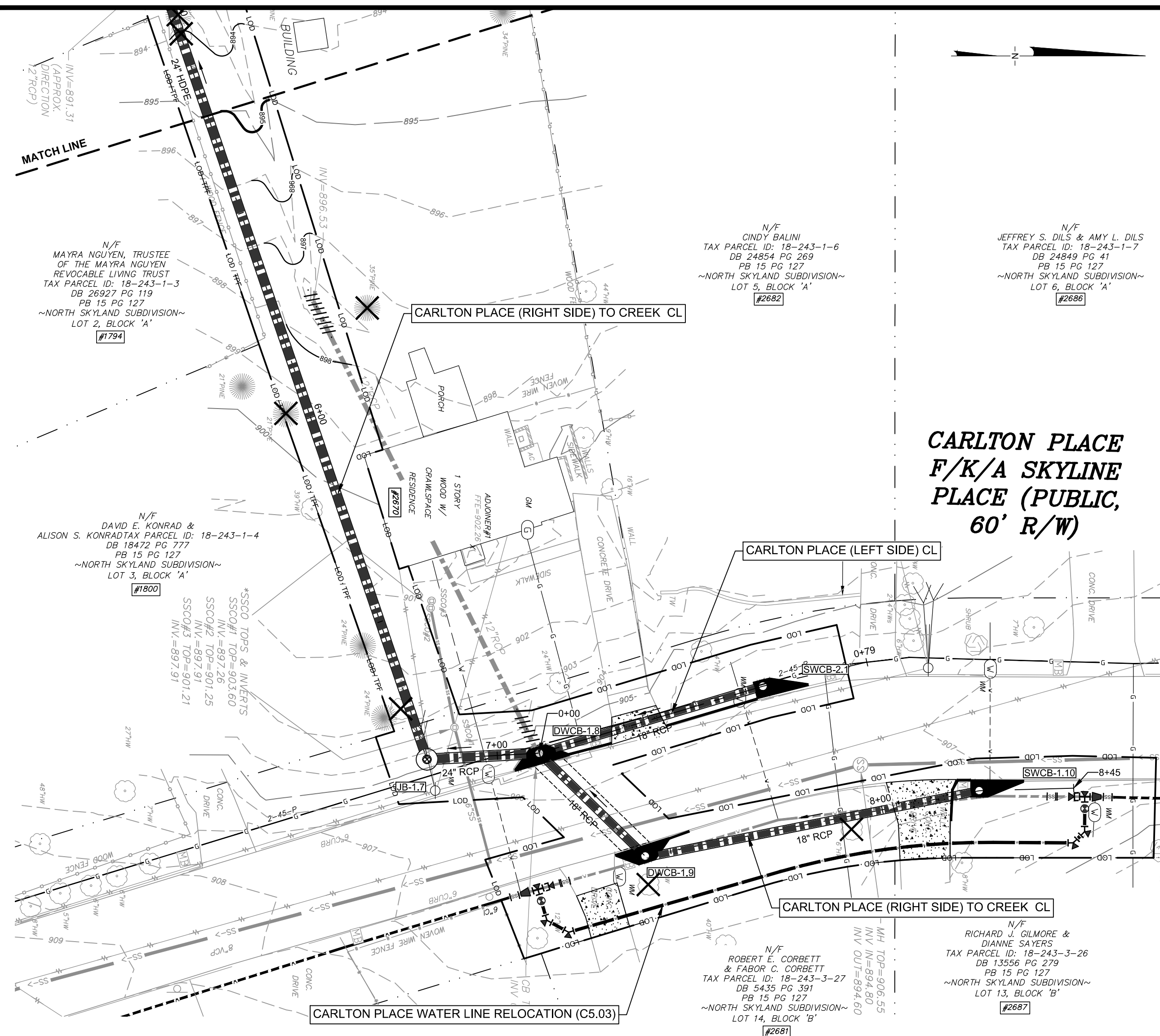
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- EXISTING UTILITIES NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES. CONTRACTOR SHALL COORDINATE WITH DEKALB COUNTY WATER AND SEWER DEPARTMENT SHOULD RELOCATION BECOME NECESSARY.
 - SEE UTILITY PLANS ON SHEETS C5.00-C5.03 FOR WATER AND UTILITY RELOCATION REQUIREMENTS.

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GRADING & STORM SEWER PLAN & PROFILE

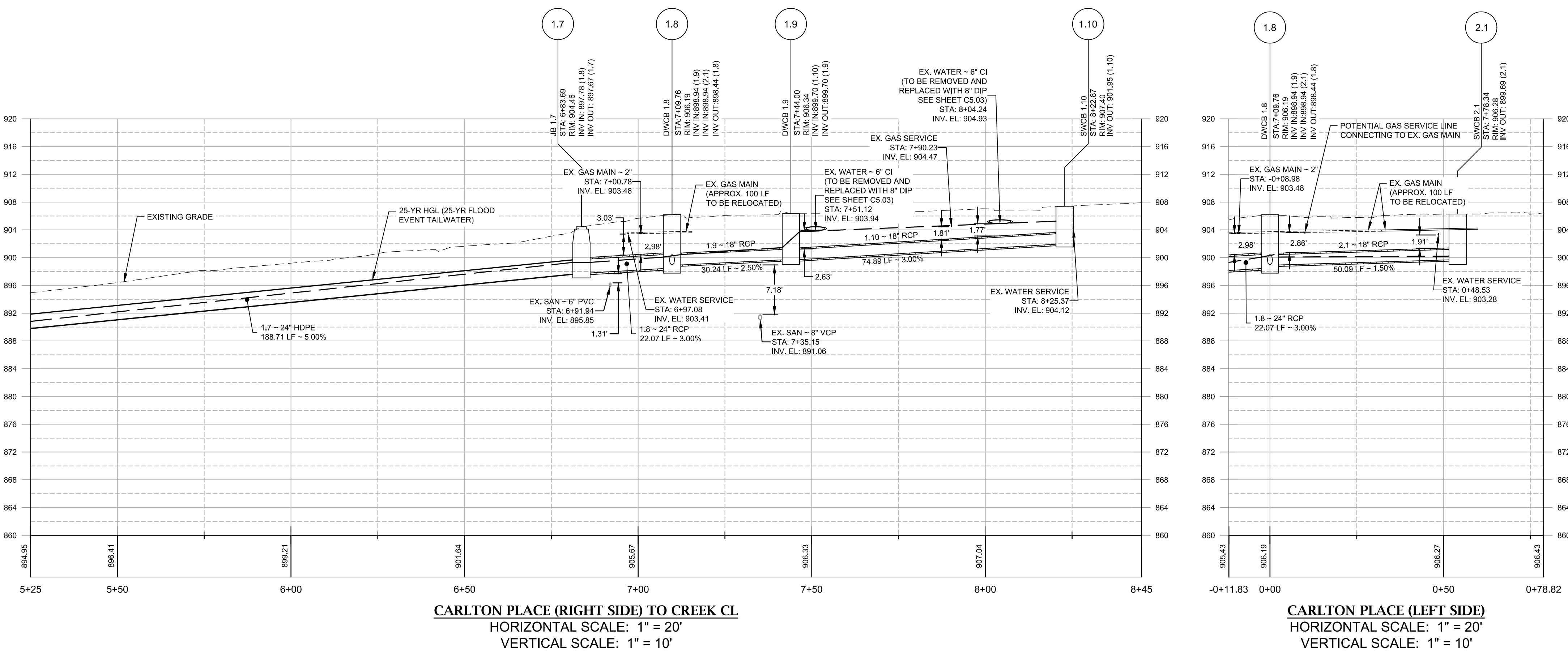
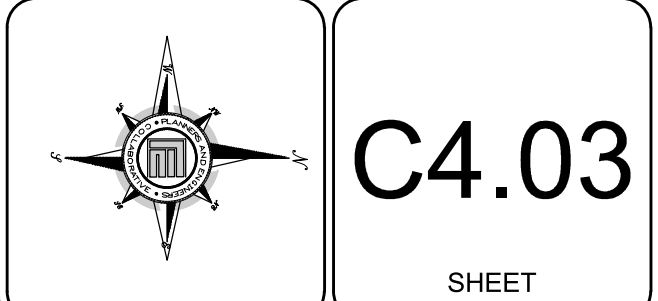


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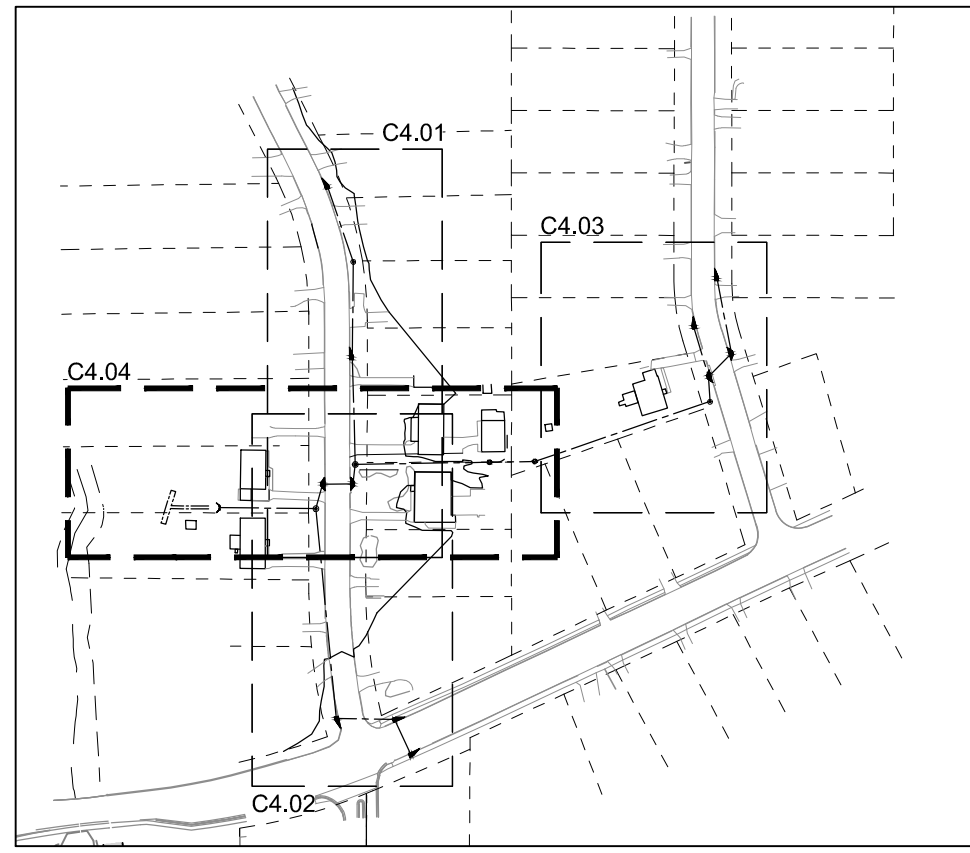
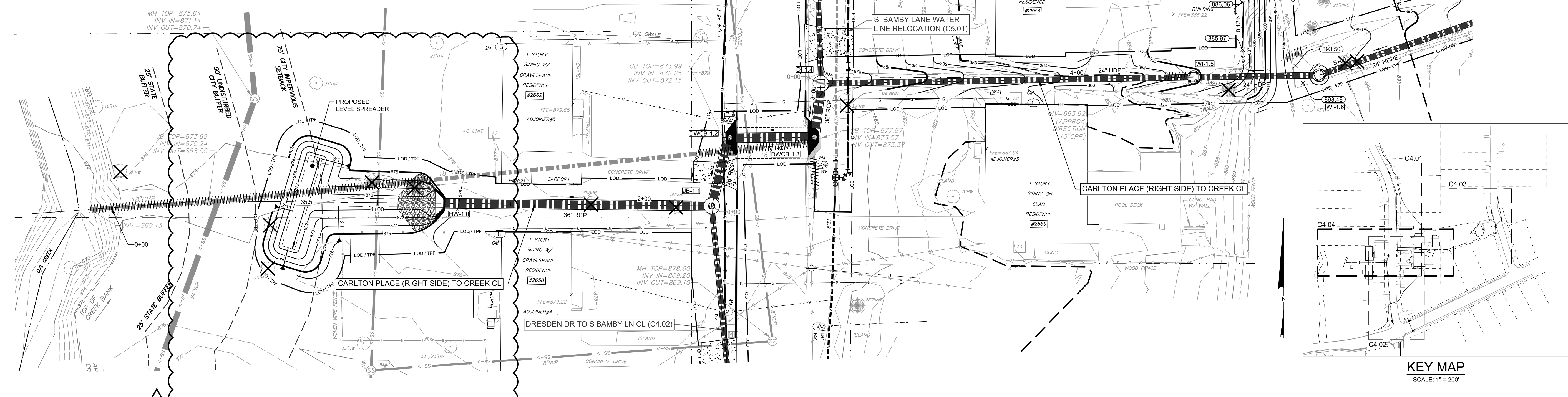
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C4.03

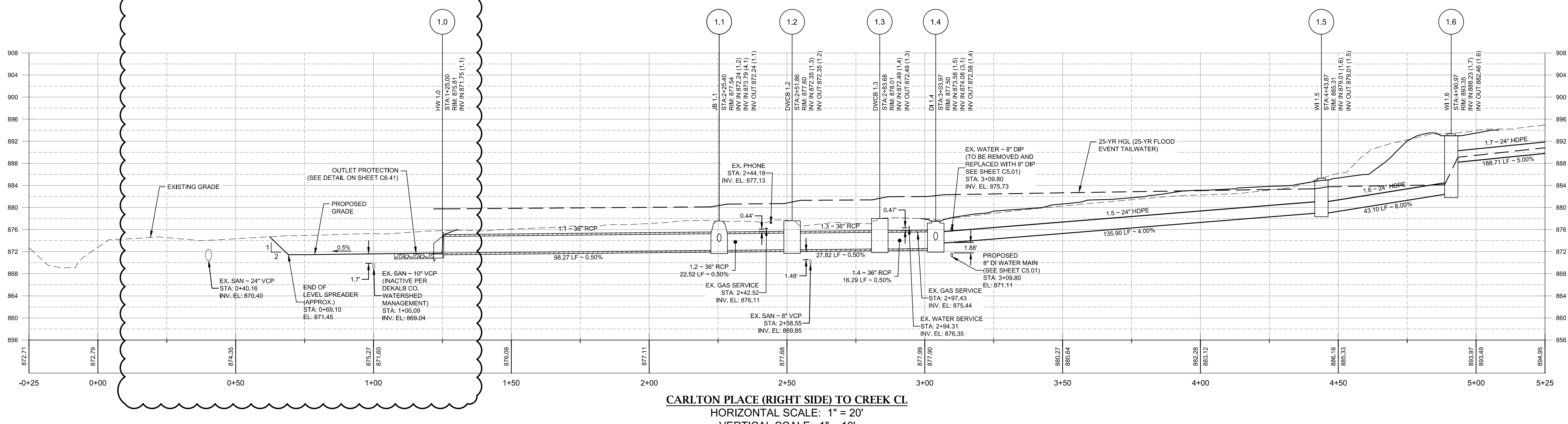
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ADJOINERS

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KEY MAP
SCALE: 1" = 200'



CARLTON PLACE (RIGHT SIDE) TO CREEK CL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

EXISTING UTILITIES NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINES. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES.
4. SEE UTILITY PLANS ON SHEETS C5.00-C5.03 FOR WATER AND UTILITY RELOCATION REQUIREMENTS.



24 HOUR CONTACT:
DON SHERRILL @ 404-991-4763

REVISIONS:

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3	01-10-20	MS	CITY COMMENTS

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

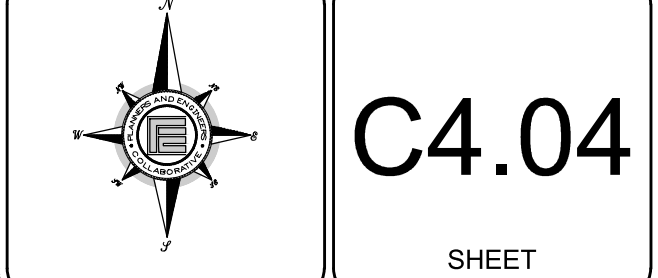
GRADING & STORM SEWER PLAN & PROFILE

SCALE: 1" = 20'
DATE: 06/12/2019
PROJECT: 19051.00

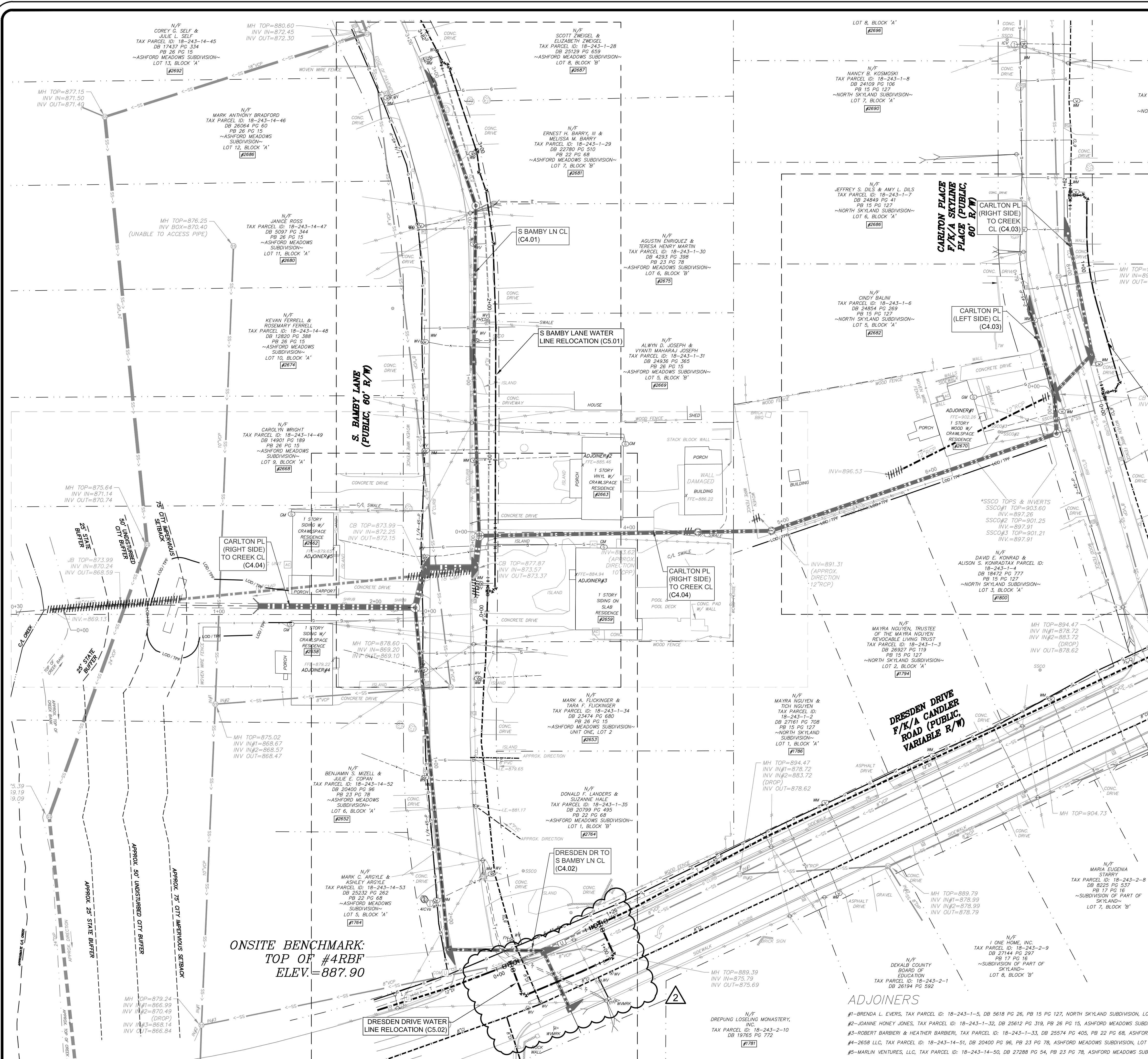
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CERTIFICATION # 0000067548 EXP. 12/21/2021



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UTILITY RELOCATION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION, INCLUDING BUT NOT LIMITED TO: ALL UTILITIES, STORM DRAINAGE, YARD PIPING, SIGNS, TRAFFIC SIGNALS AND POLES, ETC., GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR IS RESPONSIBLE FOR ALL ROAD TRAFFIC CONTROL DURING CONSTRUCTION. TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH MUTCD STANDARDS, LATEST EDITION.
- OPEN BURNING OR BURY PITS ARE NOT ALLOWED.
- EXISTING WATER LINE LOCATION SHOWN ON PLANS IS APPROXIMATE.
- ALL FITTINGS AND BURIED VALVES SHALL BE RESTRAINED. PIPES ENTERING AND EXITING 45°, 22.5°, AND/OR 11.25° BENDS SHALL BE RESTRAINED 40-FT EACH WAY. VALVES, TEES, AND 90° BENDS SHALL BE RESTRAINED 60-FT EACH WAY.
- CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND/OR RELOCATING ALL YARD PIPING/UTILITIES NOT SHOWN ON PLANS.
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CARLTON PL WATER LINE RELOCATION (C5.03)

EXISTING UTILITIES NOTES:

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S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
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 FOR
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 4362 PEACHTREE RD
 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500

LAND LOT 243
 18TH DISTRICT
 CITY OF BROOKHAVEN
 DEKALB COUNTY
 GEORGIA

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3	01-10-20	MS	CITY COMMENTS

REVIEWER STAMP

BROOKHAVEN PRJ#:
 DEKALB AP#:

19-00049
 3045859

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MASTER UTILITY & WATER LINE RELOCATION PLAN

SCALE: 1" = 30'

DATE: 06/12/2019

PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

GEORGIA
 REGISTERED PROFESSIONAL ENGINEER
 No. 34203
 W. M. SCHMIDT
 01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

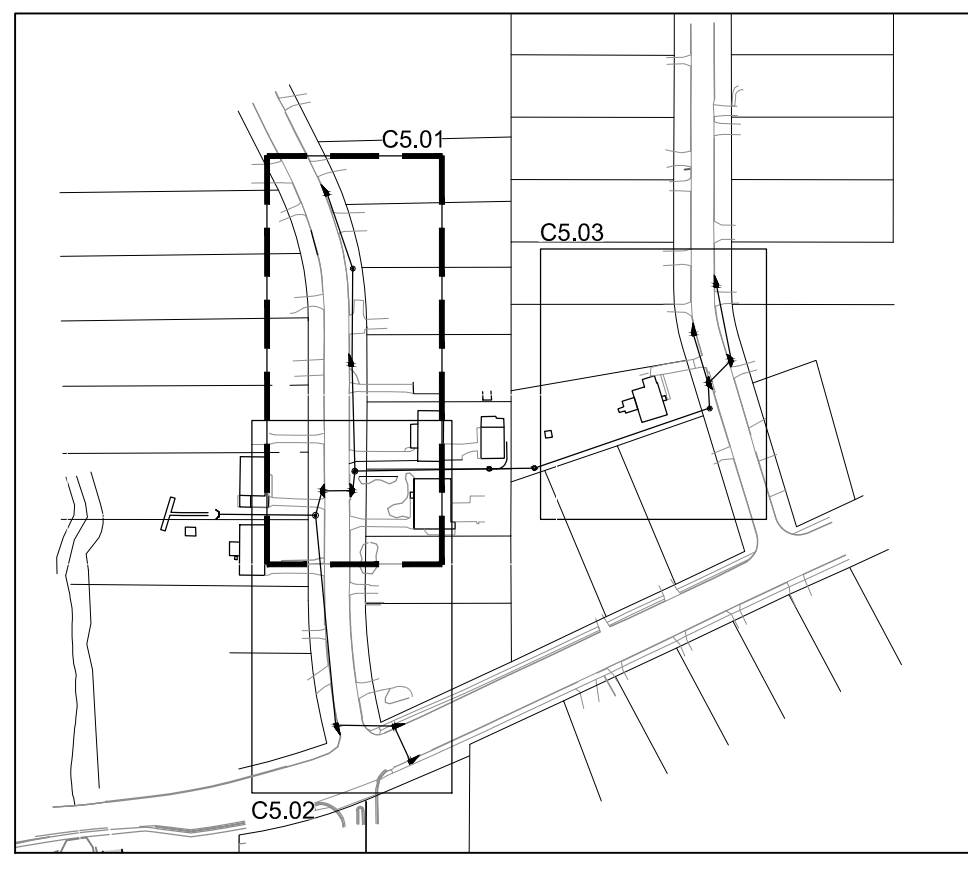
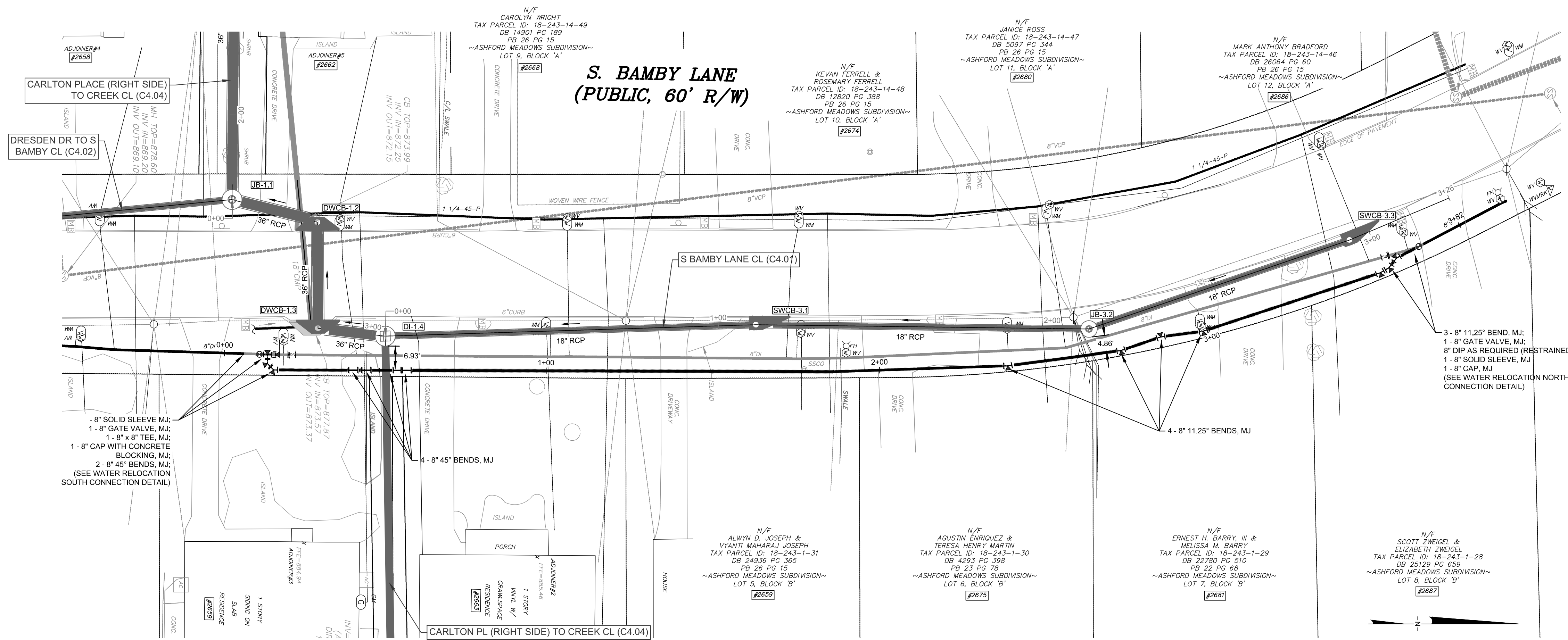
24 HOUR CONTACT:
 DON SHERRILL @ 404-991-4763



**ONSITE BENCHMARK:
 TOP OF #ARB
 ELEV. = 887.90**

- ADJOINERS**
- #1-BRENDA L. EVERS, TAX PARCEL ID: 18-243-1-5, DB 5618 PG 26, PB 15 PG 127, NORTH SKYLAND SUBDIVISION, LOT 4, BLOCK 'A'
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C5.00
 SHEET



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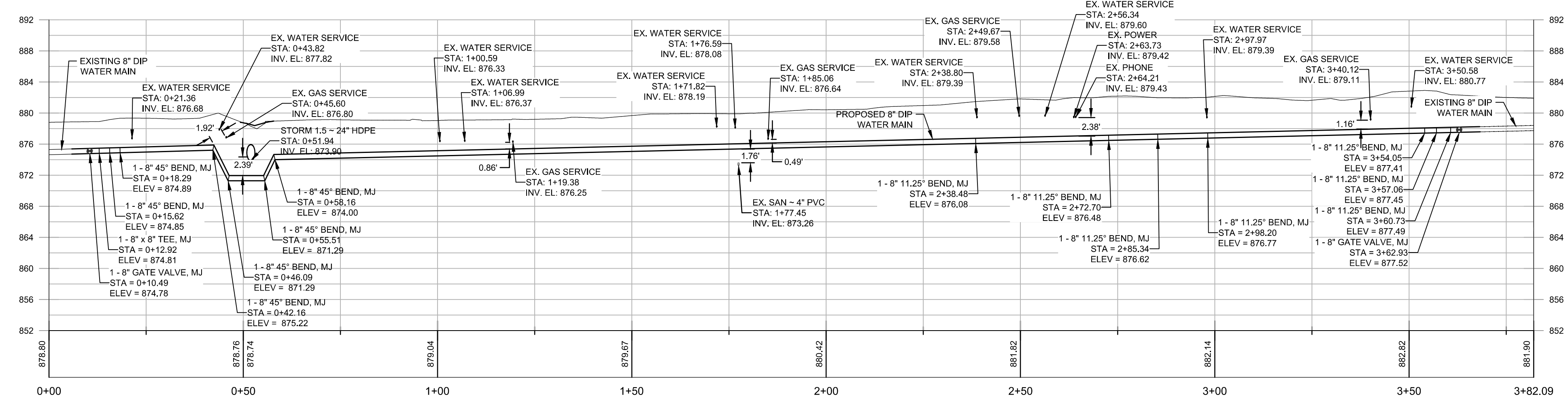
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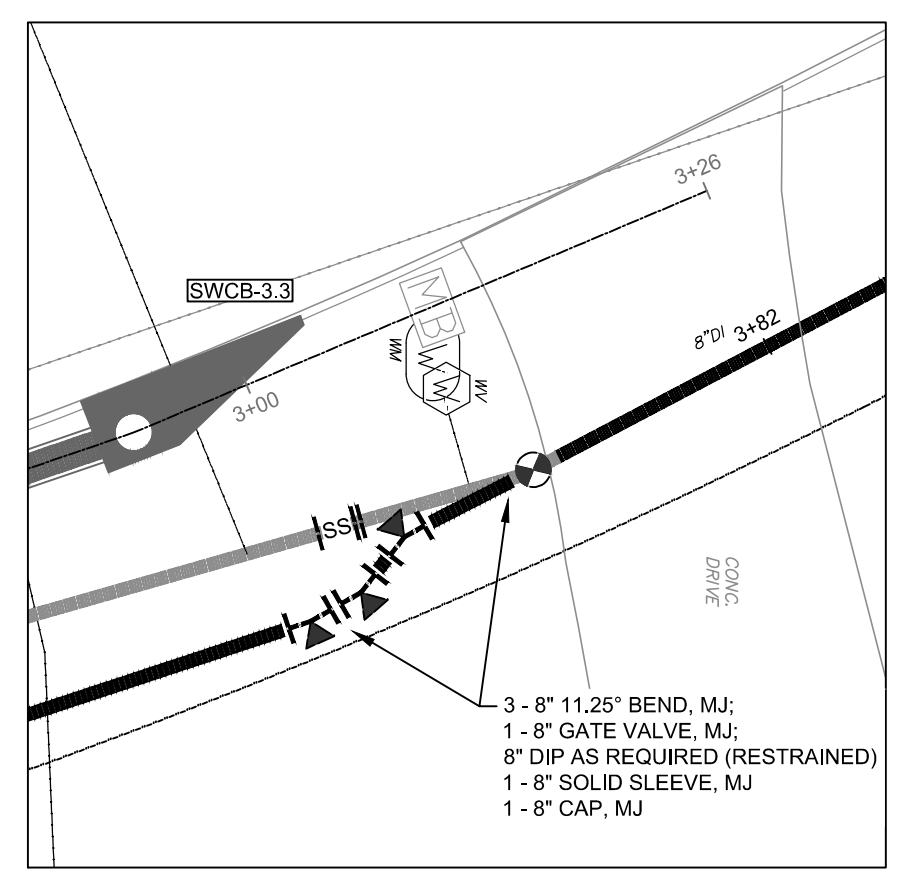
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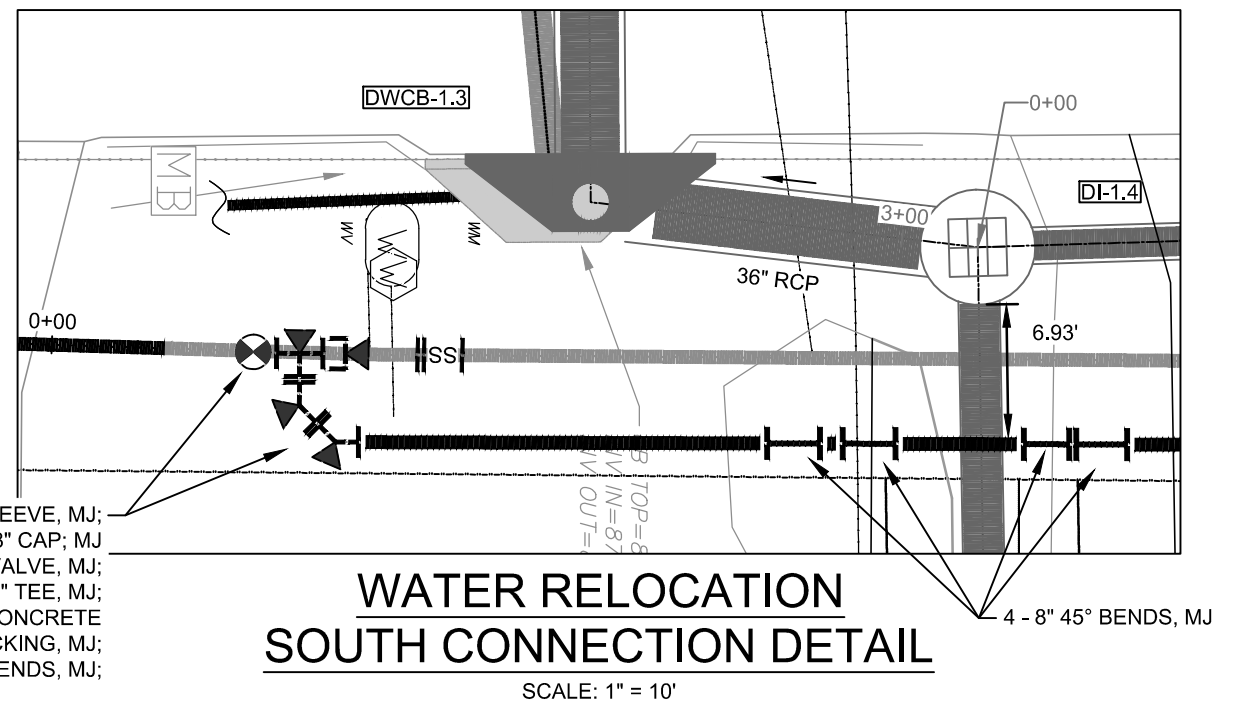
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S. BAMBY LN WATER RELOCATION
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'



WATER RELOCATION NORTH CONNECTION DETAIL
 SCALE: 1" = 10'



WATER RELOCATION SOUTH CONNECTION DETAIL
 SCALE: 1" = 10'

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CITY OF BROOKHAVEN
 DEKALB COUNTY
 GEORGIA

LAND LOT 243
 18TH DISTRICT

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3	01-10-20	MS	CITY COMMENTS

BROOKHAVEN PRJ#: 19-00049
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UTILITY & WATER LINE RELOCATION PLAN & PROFILE



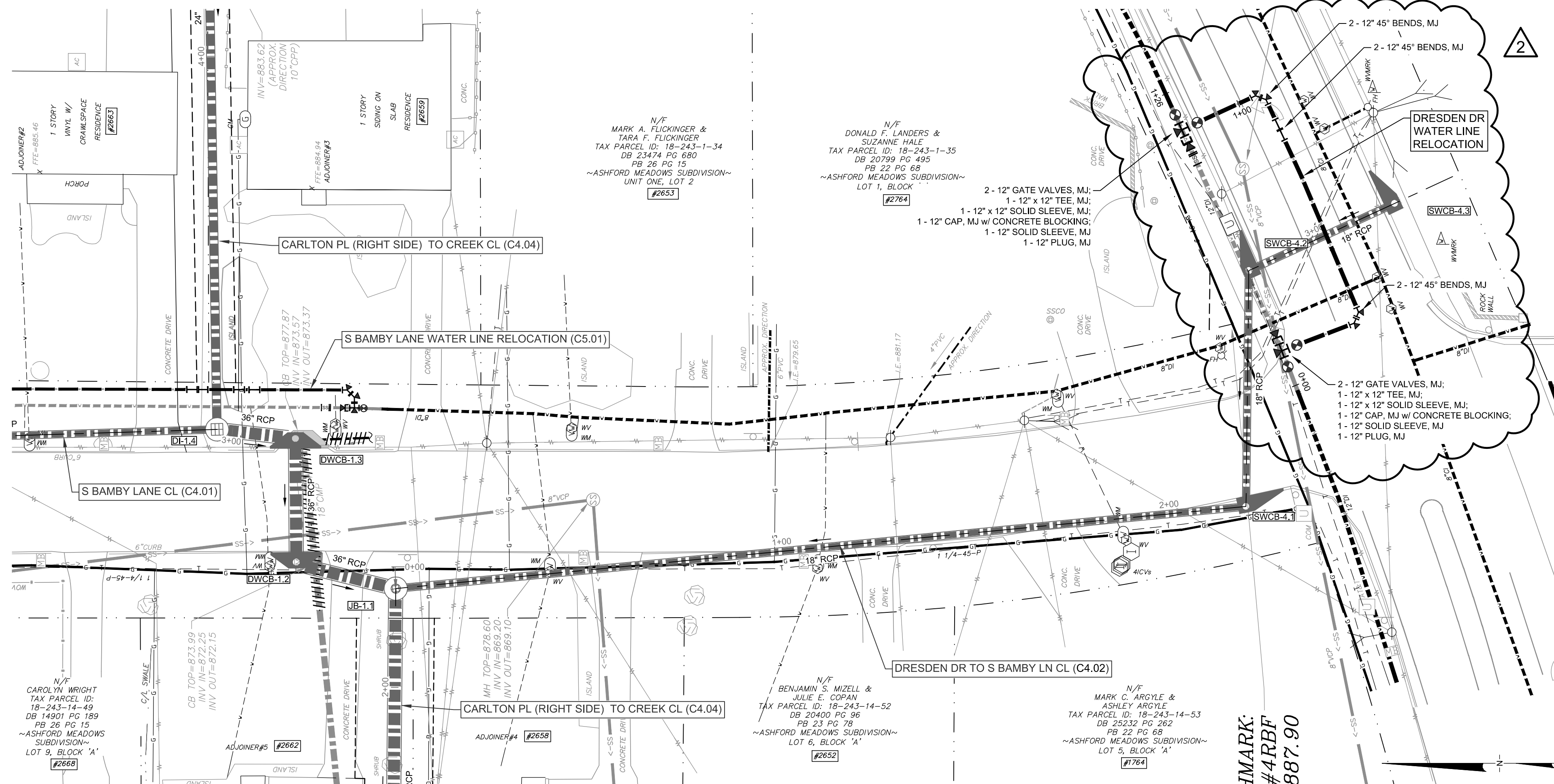
SCALE: 1" = 20'
 DATE: 06/12/2019
 PROJECT: 19051.00

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GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

C5.01
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ADJOINERS

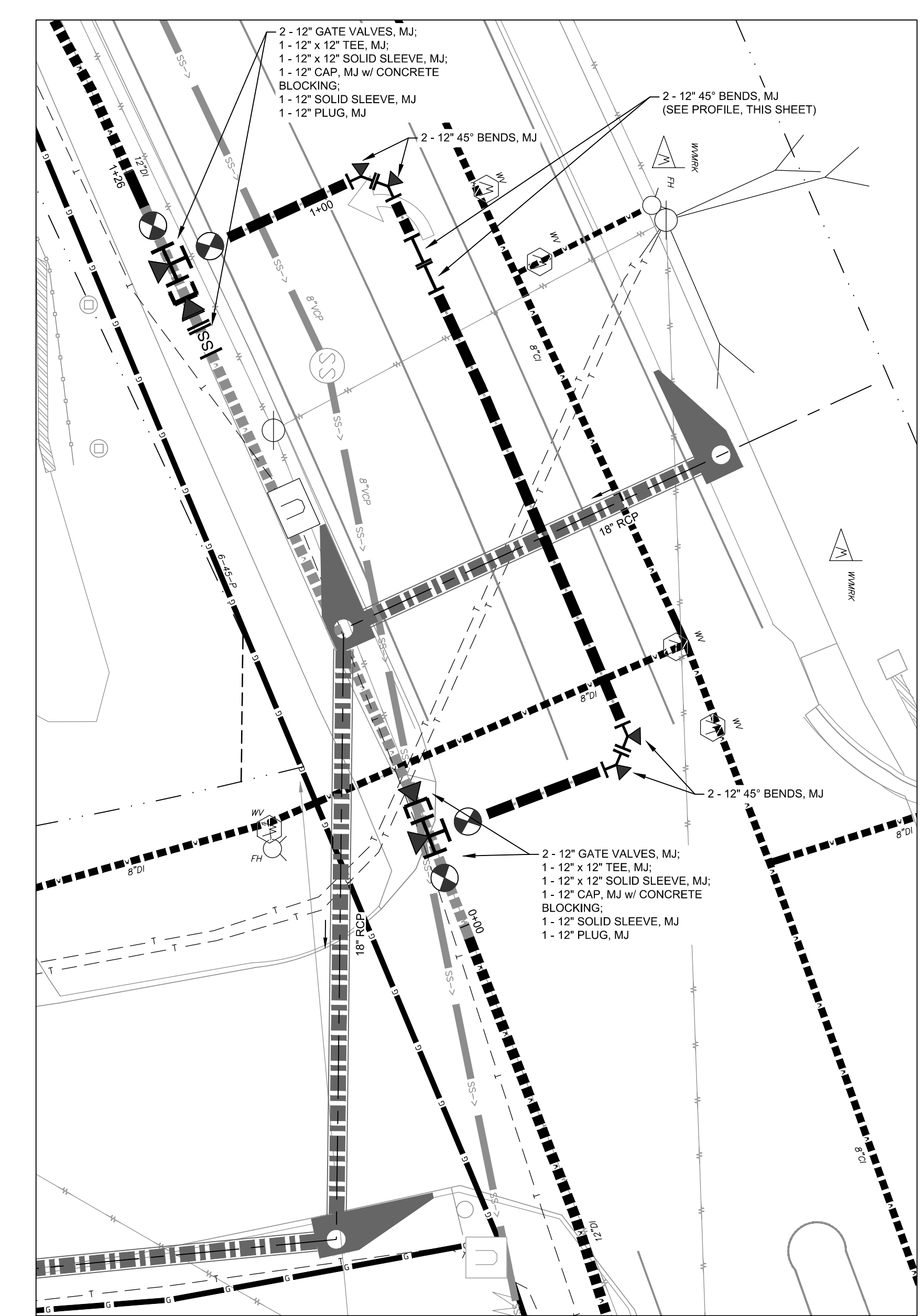
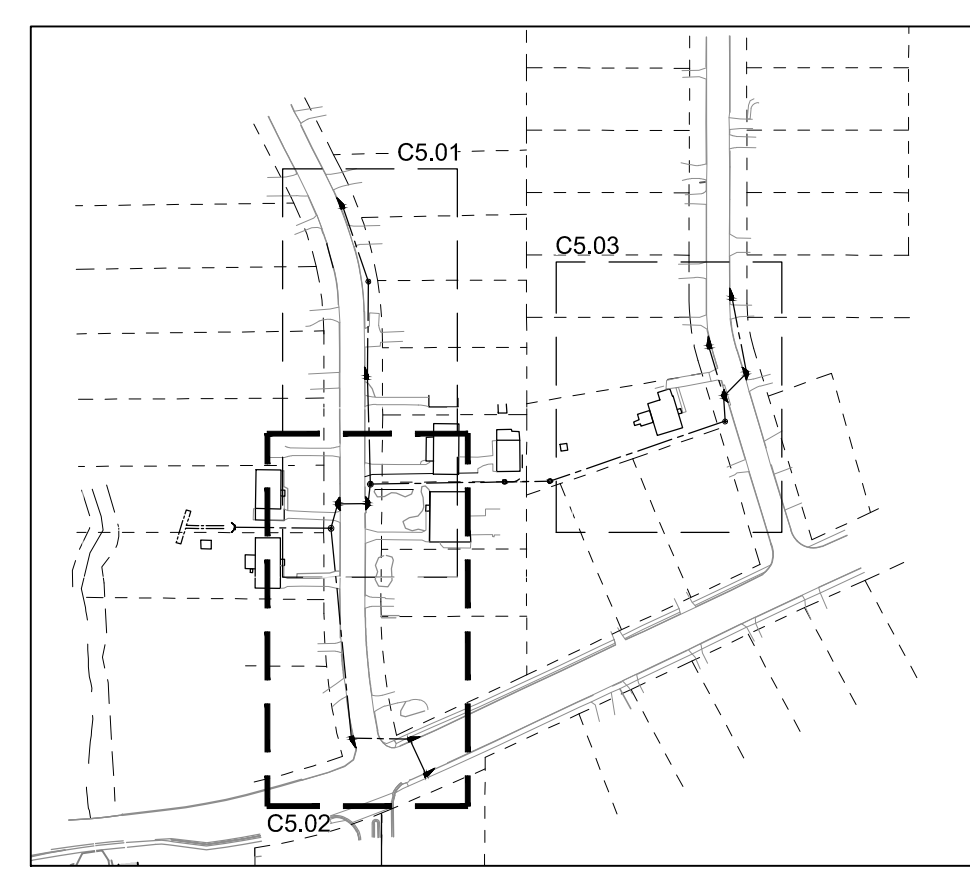
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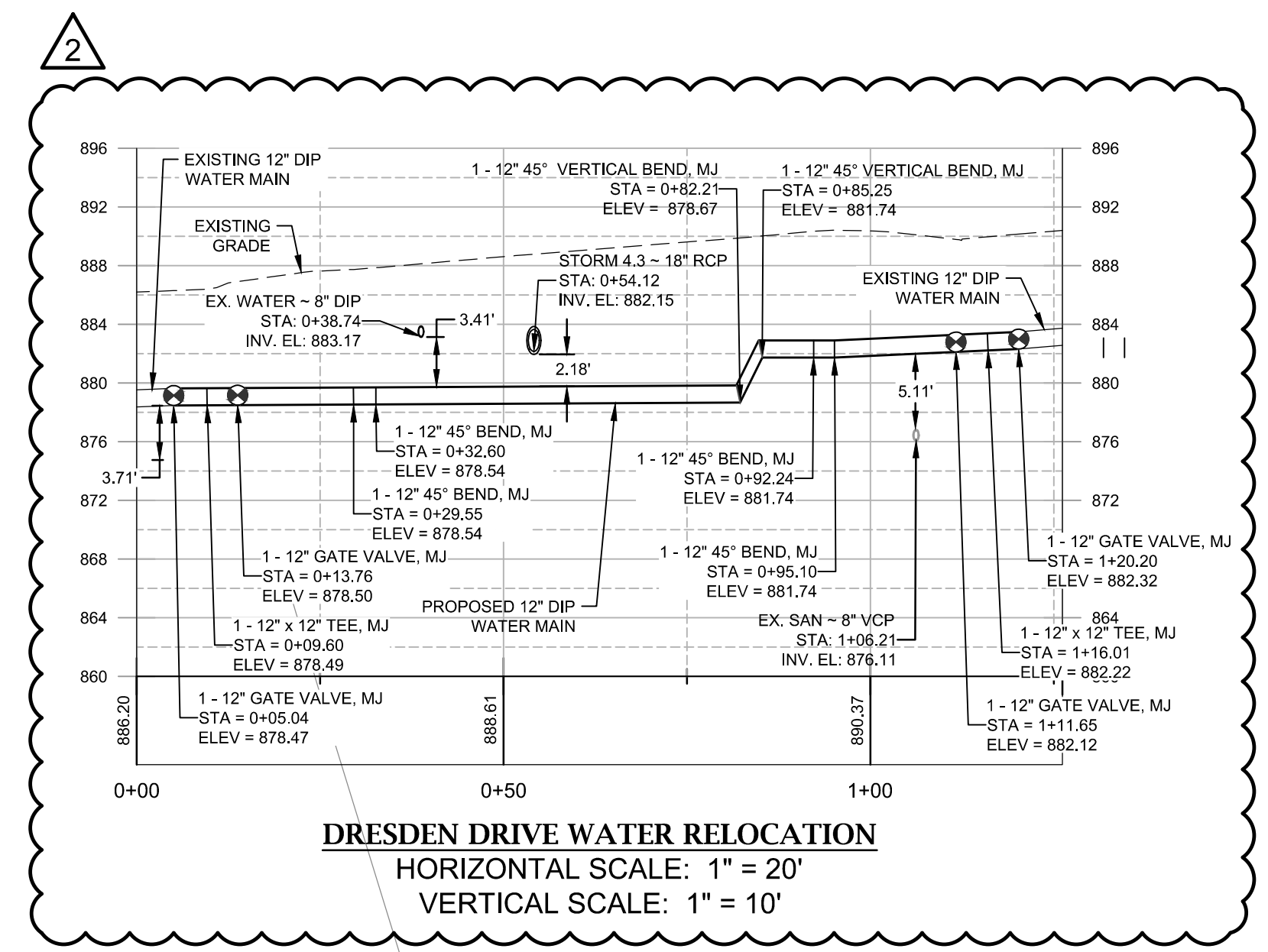
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DRESDEN DRIVE WATER LINE RELOCATION DETAIL
SCALE: 1" = 10'



DRESDEN DRIVE WATER RELOCATION
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

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UTILITY & WATER LINE RELOCATION PLAN & PROFILE

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DATE: 06/12/2019
PROJECT: 19051.00

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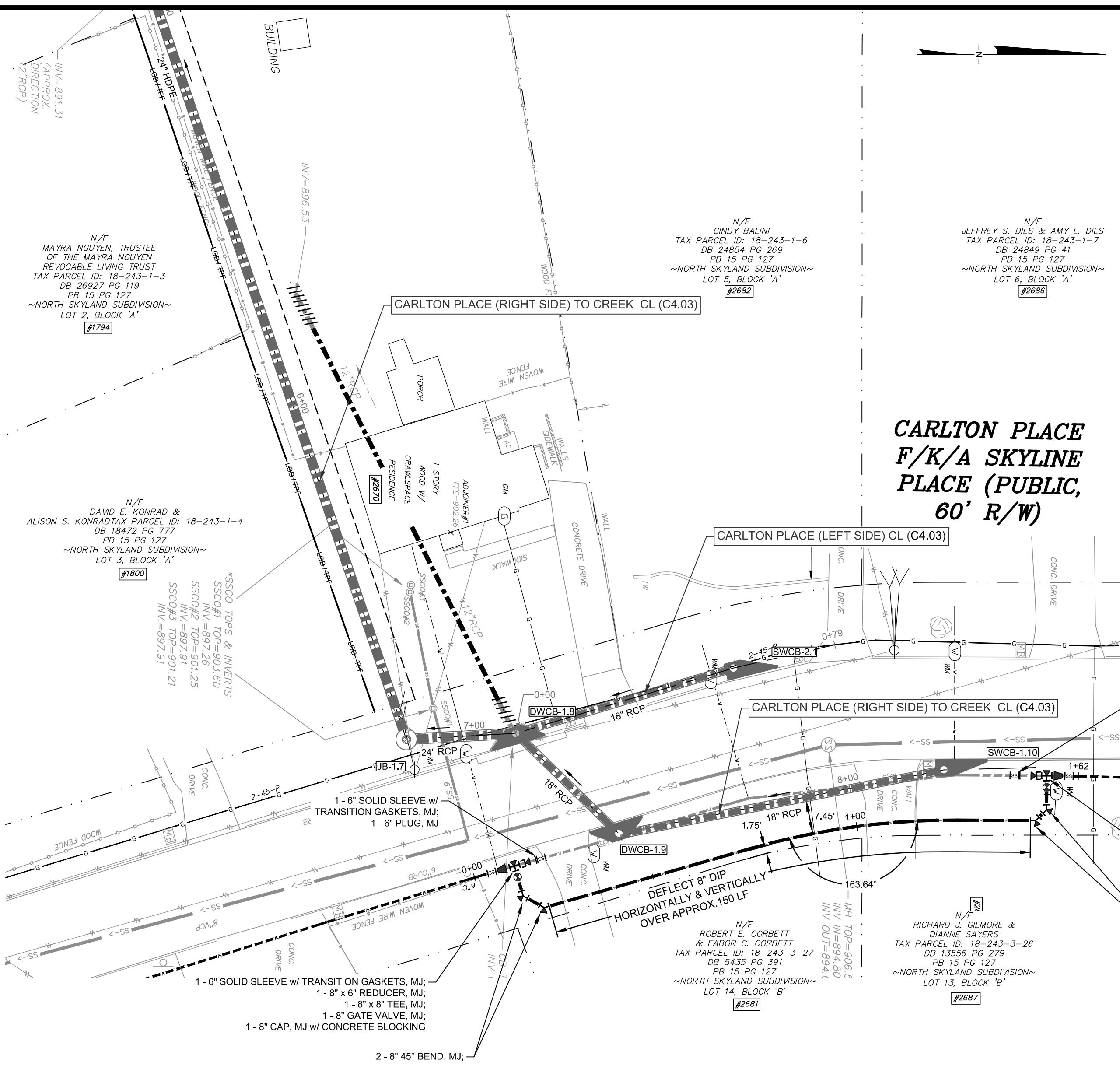
10/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
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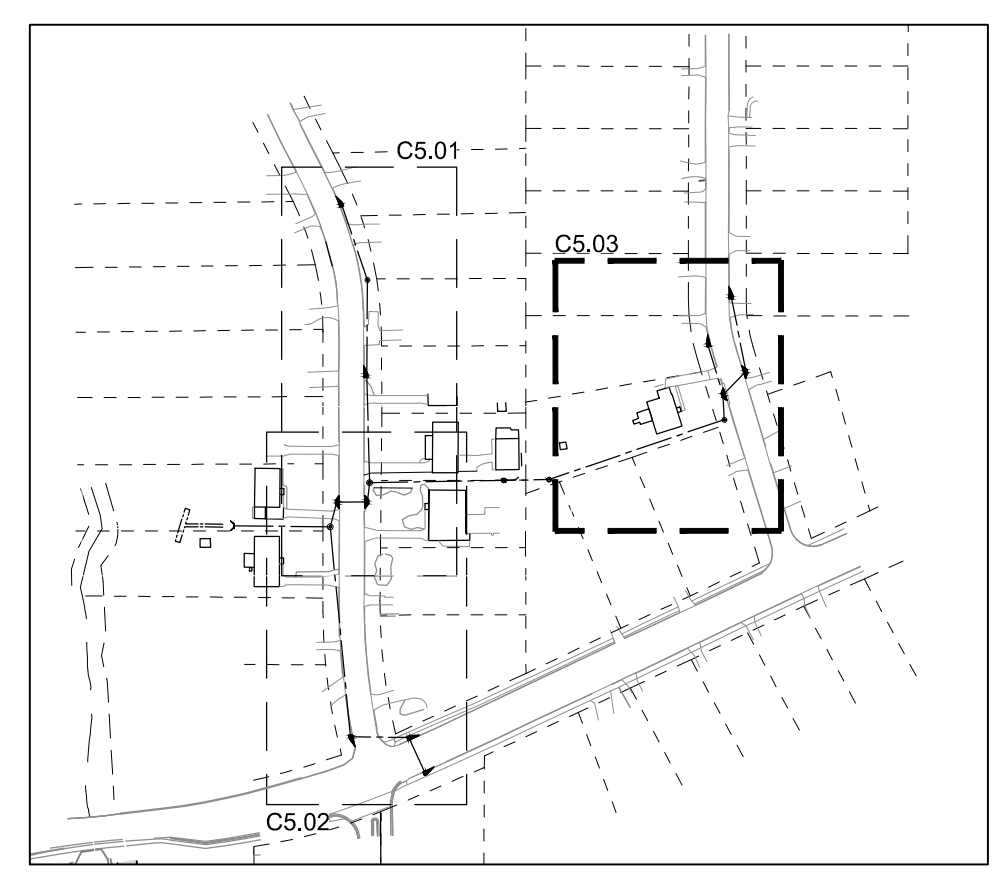
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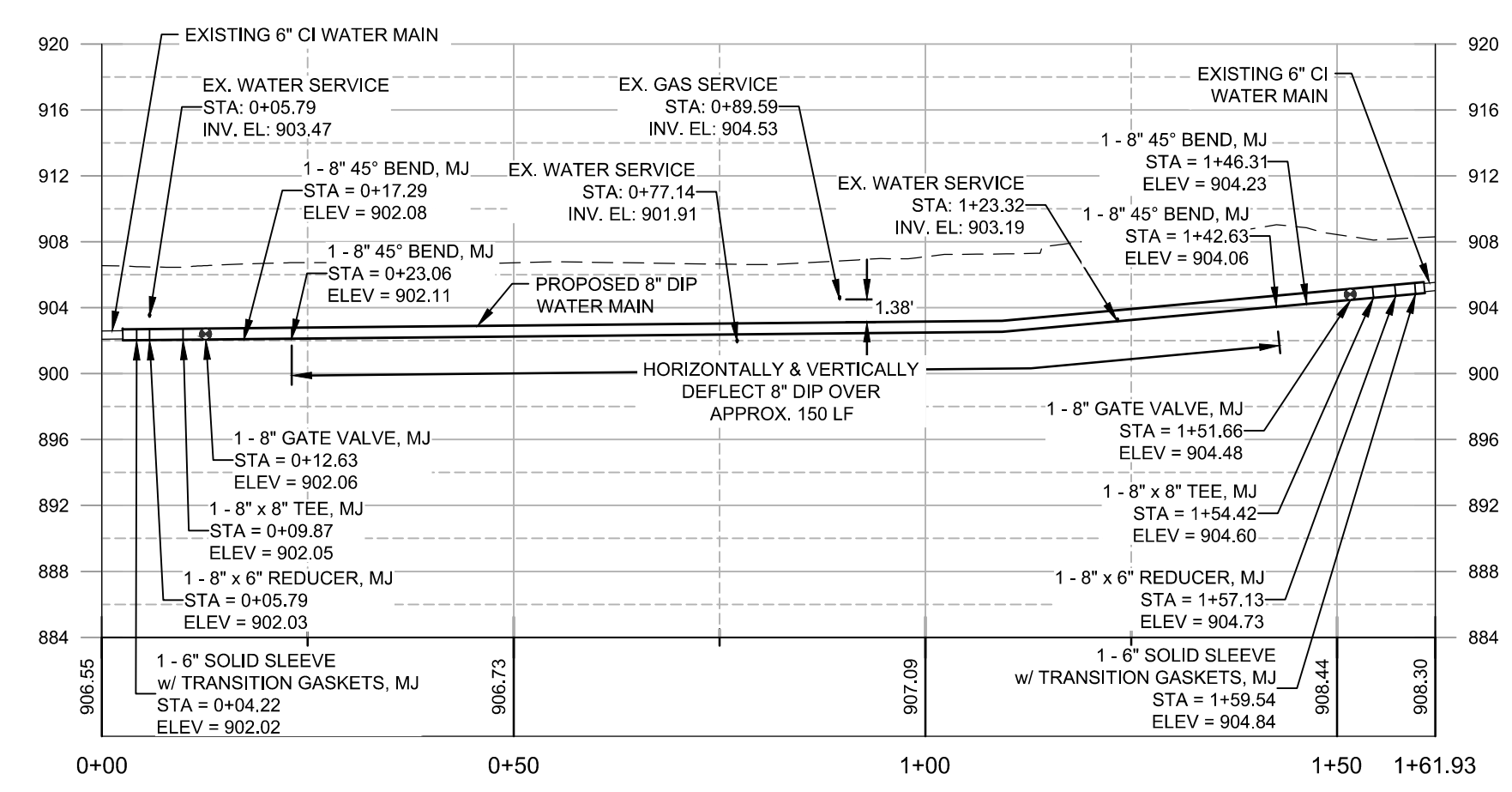
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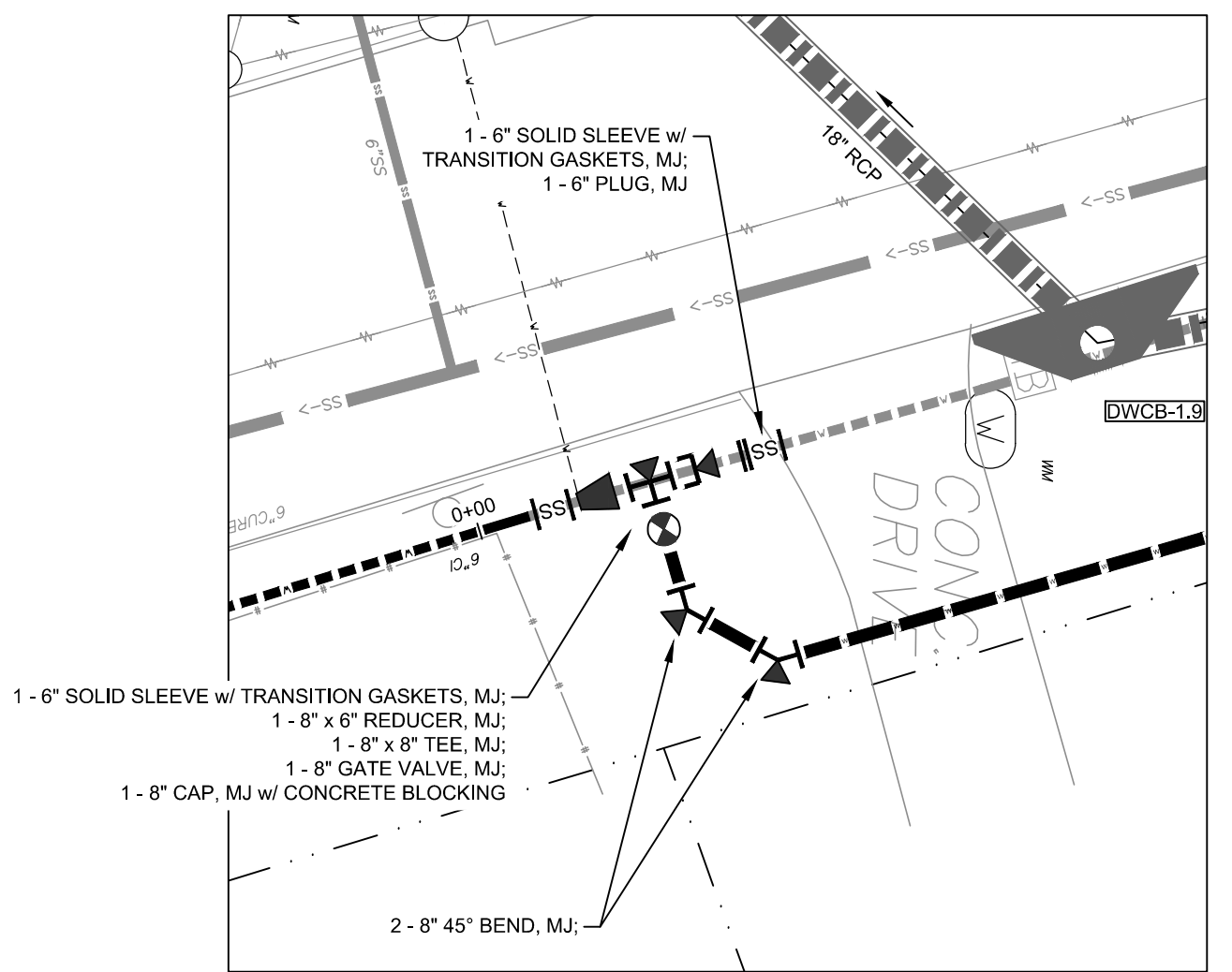
- EXISTING UTILITIES NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND PHONE AND/OR POWER. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING GAS SERVICE LINE. CONTRACTOR SHALL COORDINATE WITH AGL SHOULD RELOCATION BECOME NECESSARY.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER METER AND SERVICE LINES.



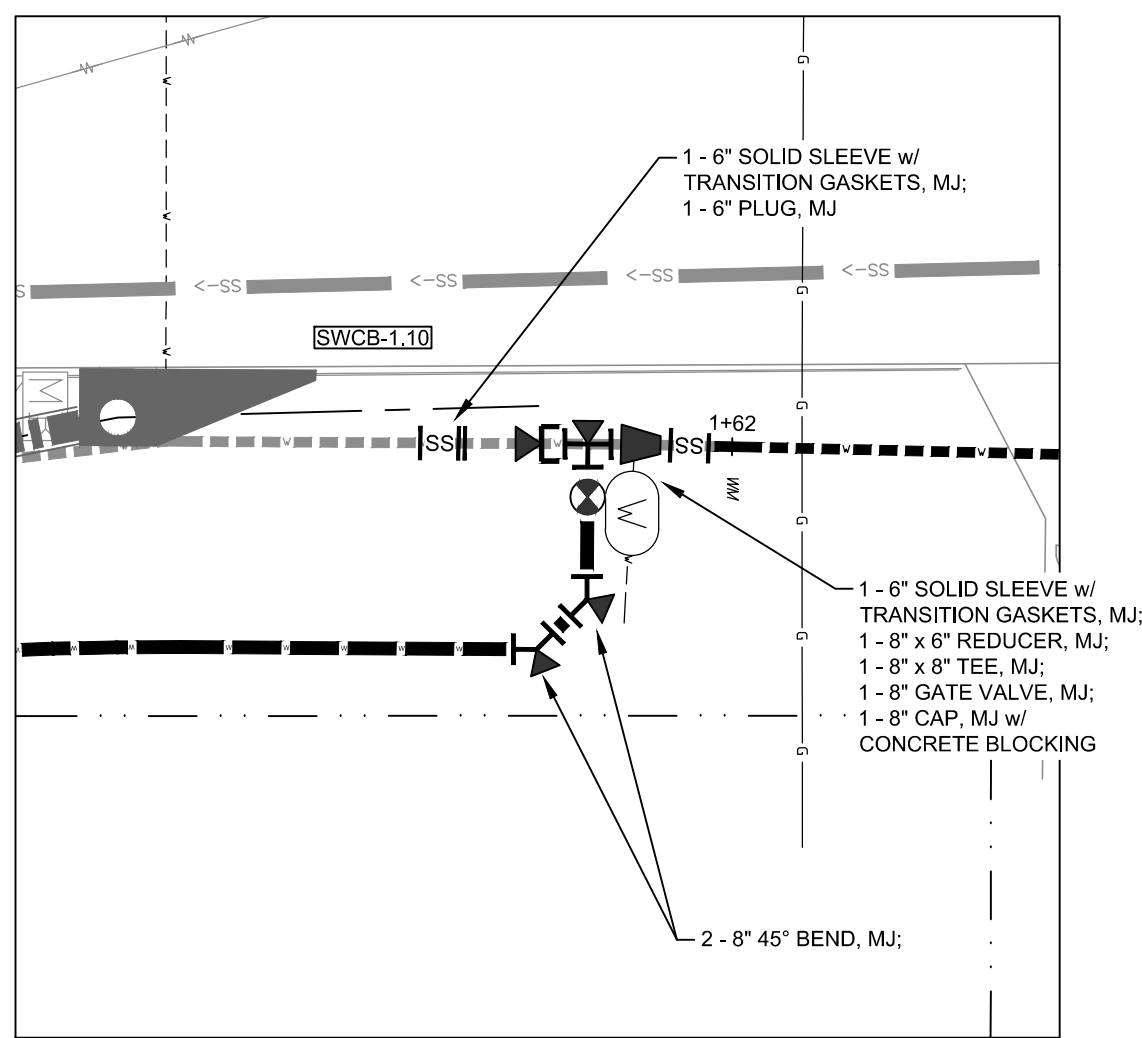
24 HOUR CONTACT:
 DON SHERRILL @ 404-991-4763



CARLTON PLACE - WATER MAIN RELOCATION
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'



WATER RELOCATION SOUTH CONNECTION DETAIL
 SCALE: 1" = 10'



WATER RELOCATION NORTH CONNECTION DETAIL
 SCALE: 1" = 10'

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
 A MASTER PLANNED RESIDENTIAL DEVELOPMENT
 FOR
CITY OF BROOKHAVEN
 4362 PEACHTREE RD
 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500

LAND LOT 243
 18TH DISTRICT

PLANNERS AND ENGINEERS COLLABORATIVE
 SITE PLANNING | LANDSCAPE ARCHITECTURE | CIVIL ENGINEERING | LAND SURVEYING
 350 RESEARCH COURT | PEACHTREE CORNERS, GEORGIA 30092 | (770) 451-2741 | FAX (770) 451-9915

"WE PROVIDE SOLUTIONS"

REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

BROOKHAVEN PRJ#: 19-00049
 DEKALB AP#: 3045859

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UTILITY & WATER LINE RELOCATION PLAN & PROFILE

SCALE: 1" = 20'
 DATE: 06/12/2019
 PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

REGISTERED PROFESSIONAL ENGINEER
 No. 34239
 W. M. SCHAFFNER
 01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

C5.03
 SHEET

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: _____
 Project Name: S. Bamby Ln Drainage Imprv Ph 3 & 4 Address: S. Bamby Lane @ Dresden Drive
 City/County: Brookhaven/ DeKalb County Date on Plans: 1/10/2020
 Name & email of person filling out checklist: Melanie Smith msmith@pecatl.com



Neil M Schaap
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 0000067548
 ISSUED: 12/21/2018 EXPIRES: 12/21/2021

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
6.00	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. <i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)</i>
6.01	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)</i>
N/A	N	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. <i>(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)</i>
6.01	Y	4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
6.01	Y	5 Provide the name, address, email address, and phone number of primary permittee.
6.01	Y	6 Note total and disturbed acreage of the project or phase under construction.
6.01	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL SHEETS	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
6.01	Y	9 Description of the nature of construction activity.
6.01	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
6.01	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
6.01	Y	12 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 19 of the permit.
6.01	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.*
6.01	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 and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit.*
6.01	Y	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."
6.01	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
6.01	Y	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."
6.01	Y	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."
6.01	Y	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."
6.01	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."
6.01	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."
6.01	Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the 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.*
6.01	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.*
6.01	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.*
6.01	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
6.01	Y	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.*
6.01	Y	27 Description of practices to provide cover for building materials and building products on site.*

6.01	Y
6.01, 6.02	Y
6.01	Y
6.01	Y
6.01	Y
6.01	Y
6.01	Y
6.02	Y
6.01, 6.02	Y
ALL SHEETS	Y
ALL PLAN SHEETS	Y
N/A	N
N/A	N
ALL PLAN SHEETS	Y
ALL PLAN SHEETS	Y
6.10-6.30	Y
N/A	N
6.01	Y
4.05, 6.41	Y
6.10	Y
6.10, 6.20, 6.30	Y
N/A	N
6.03	Y
6.40-6.42	Y
6.02, 6.40	Y

- Description of the practices that will be used to reduce the pollutants in storm water discharges.*
- 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).
- Provide complete requirements of inspections and record keeping by the primary permittee.*
- Provide complete requirements of sampling frequency and reporting of sampling results.*
- Provide complete details for retention of records as per Part IV.F. of the permit.*
- Description of analytical methods to be used to collect and analyze the samples from each location.*
- Appendix B rationale for NTU values at all outfall sampling points where applicable.*
- Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
- 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 phase.*
- Graphic scale and North arrow.
- Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10
- 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 EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswcc.org.
- 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.*
- 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.
- Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
- Delineation and acreage of contributing drainage basins on the project site.
- Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
- An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- Soil series for the project site and their delineation.
- The limits of disturbance for each phase of construction.
- 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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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.
- 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.
- 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.
- 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 the 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 200ft of a perennial stream the * checklist items would be N/A. **Effective January 1, 2020**

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
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LAND LOT 243
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REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

REVIEWER STAMP


BROOKHAVEN PRJ#: 19-00049
 DEKALB AP#: 3045859

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EROSION CONTROL NOTES

SCALE: N/A
 DATE: 06/12/2019
 PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.



01/10/2020
 GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

2
C6.00
 SHEET

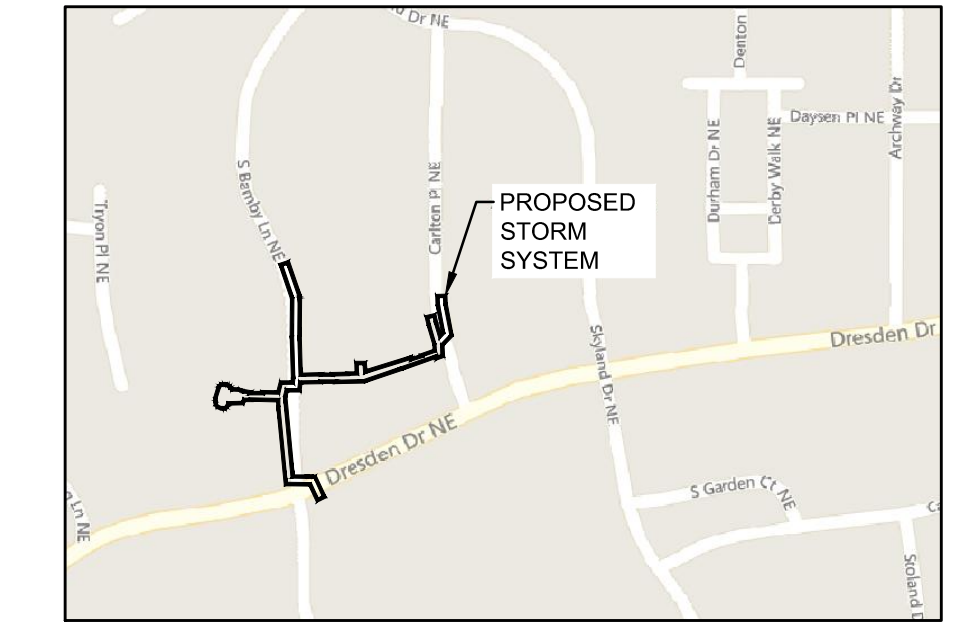
EROSION CONTROL NOTES

- 1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist is shown on the previous drawing.
2. Level II Design Professional: NEIL SCHAAP
Level II Certification No.: 0000067548
Level II Expiration Date: 12/21/2021
3. The limits of disturbance are NOT greater than 50 acres at any one time.
4. 24-hour Contact Name: DON SHERRILL
24-hour Contact Phone Number: 404-991-4763
5. Primary Permittee: DON SHERRILL
Name: DON SHERRILL
Address: CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
Phone Number: 404-637-0500
Email Address: DON.SHERRILL@BROOKHAVENGA.GOV

Table with 2 columns: Disturbed Acreage, Initial, Intermediate Phase, Final. Values: 0.85 acres, 0.85 acres, 0.85 acres.

7. The GPS location for the Construction Exit(s): No Construction Exit. Due to the limited space between existing residential homes, the linear nature of the project, and the grading areas being accessible off of South Bamby Lane, no formal Construction Exits are necessary.

- 8. The initial date of the plans is shown on every sheet. For each resubmittal, the revision date and requesting entity is shown on the cover sheet and each sheet that has been revised.
9. The construction activity will consist of replacing aging stormwater infrastructure and relocating three conflicting segments of watermain. The existing land use is single family residential.
10. Vicinity Map



11. The receiving waters for this project include NORTH FORK PEACHTREE CREEK TRIBUTARY A. The discharge is NOT through a municipal sewer system. The receiving water(s) support warm water fisheries.

12. 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 supervision.
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 Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, outlines 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 10000.1."

NEIL SCHAAP
GSWCC No: 0000067548
Exp. Date: 12/21/2021

14. The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation. The primary permittee must retain the design professional who prepared the Plan, except when the Primary Permittee has requested in writing (and EPD has agreed to an alternate design professional) to inspect the installation of the initial sediment storage requirements and perimeter control BMPs which the design professional designed within seven (7) days after installation. The design professional shall determine if these BMPs have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

15. 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 buffers as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

16. There are buffer encroachments. A buffer variance is NOT required as the project is restoring/modifying the configuration of an existing stormwater system.

17. 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.

EROSION CONTROL NOTES

- 18. Waste materials, including solid waste, shall not be discharged to waters of the State, except as authorized by a Section 404 permit. Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets in the contractor's staging areas) and least 50 feet away from streams, gutters, watercourses and storm drains as shown on the plans. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits.
A. Concrete washout of tools, trucks (including drums) chutes, and any/all other equipment is prohibited at the construction site unless otherwise noted under Checklist Item #24.
B. Containers for petroleum based 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/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.
C. All paint/solvent/finishing products will be stored in tightly sealed original containers when not in use. Excess products will not be discharged to storm water collection systems. Excess product materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.
D. All fertilizer/herbicide 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 GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.
E. No building materials or construction materials shall be disposed of at the construction site. All materials will be disposed of in a manner consistent with state and/or local regulations.

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.

20. 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.

21. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

22. There are no Impaired Stream Segments within 1 linear mile upstream of or within the same watershed.

23. A TMDL Implementation Plan is NOT applicable to the receiving waters for the project.

24. Washdown of concrete tools, mixer chutes, hoppers, and vehicles rears is prohibited at the construction site. Wash water shall be contained on the site.

25. PETROLEUM STORAGE, SPILLS AND LEAKS. Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices will be followed to reduce the risk of spills and prevent spills from discharging into storm water runoff.

- GOOD HOUSEKEEPING
(1). Quantities of products stored onsite will be limited to the amount needed for the job.
(2). Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible.
(3). Products will be kept in their original containers with manufacturer labels legible and visible.
(4). Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.
(5). The contractor will inspect such materials to ensure proper use, storage and disposal.

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.
Materials and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes: cat litter, sand, sawdust and properly labeled plastic and metal waste containers
Spill 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) within 24 hours at 1-800-426-2675.
For spills of an unknown amount, the National Center (NRC) will be contacted within 24 hours at 1-800-426-2675.
For spills greater than 25 gallons and no surface water impacts, the Georgia EPD will be contacted within 24 hours.
For spills less than 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 petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. A Spill Prevention, Control, and Countermeasure Plan (SPCC) prepared by a licensed professional will be required.

26. Measures installed during the construction process include: outlet protection, gently sloped vegetated grades and natural depressions for flow attenuation. At locations where flows exceed pre-development levels, these measures were chosen to minimize post-development flows and flow velocities. Velocity dissipating devices must be placed at discharge locations and along the length of any outflow channel, as shown on the Erosion and Sedimentation Control Plan(s), in order to provide a non-erosive flow thereby protecting the water course's natural physical and biological characteristics.

27. Measures used during construction to minimize the exposure of any and all building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials to precipitation and/or stormwater include: plastic sheeting and/or temporary roofs.
28. Measures used to reduce pollutants in storm water discharges include: (Initial Phase) a construction exit, silt fencing, and dust control BMPs to minimize the amount of sediment leaving the site; (Intermediate Phase) silt fencing, slope stabilization, temporary seeding; (Final Phase) and permanent seeding.

29. A timeline of the intended sequence of major soil-disturbing activities can be found on the next Erosion and Sediment Control Notes sheet.

30. INSPECTIONS AND RECORD KEEPING

- A. Permittee Requirements.
a. Each day when any piece 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 and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.
b. Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
c. 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 Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first):
(1). Disturbed areas of the primary permittee's construction site;

EROSION CONTROL NOTES

- (2). Areas used by the primary permittee for storage of materials that are exposed to precipitation;
(3). 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 or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4) [30.A.d. of these notes]. These inspections must be conducted until a Notice of Termination is submitted.
d. 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 or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. 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).
e. 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.
f. A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5), [30.A.e. of these notes], 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 be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

31. SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS

A. SAMPLING REQUIREMENTS. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

- a. Sampling Requirements shall include the following:
(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or stand alone construction; (a) the location of all perennial and intermittent streams s and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map.
(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;
(3). When the permittee has determined that some or all outfalls will be monitored, a rationale must be included for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and
(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.
b. Sample Type. 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 Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

- (1). Sample containers should be labeled prior to collecting the samples.
(2). Samples should be well mixed before transferring to a secondary container.
(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit it should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.
(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit it must be reported to EPD as specified in Part IV.E.

- c. Sampling Points.
(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the stormwater outfalls using the following minimum guidelines:

- (a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.
(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.
(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).
(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or the outfall stormwater channel.

EROSION CONTROL NOTES

- (e). The sampling container should be held so that the opening faces upstream.
(f). The samples should be kept free from floating debris.
(g). Permitees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaired areas and areas not covered by permanent structures sand areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal. 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target perennials appropriate for the region).
(h). All sampling pursuant to this permit it must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

- d. 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 permittee shall sample at the beginning of any stormwater 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 this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case 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 from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
(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 stormwater 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 location 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 discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch upon normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.

- (d). Where sampling pursuant to (a), (b), (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), [30.A.f. in these notes], must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of 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 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 permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.
B. NON-STORM WATER DISCHARGES. Except for flows from fire fighting activities, sources of non-stormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

REPORTING.

- A. 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 stormwater 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.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
B. All sampling results 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;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU," and i. Certification statement that sampling was conducted as per the Plan.

- C. 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.

32. RETENTION OF RECORDS

- A. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a 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 BMPs report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;

EROSION CONTROL NOTES

- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. [31.A. in these notes] of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) [30.a.b in these notes] of this permit.
B. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution 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 NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location 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. There will be 1 Storm Water Sampling Location(s). Per NPDES Permit GAR100001, for construction activities, the primary permittee must complete all sampling.
a. Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel(s).
b. The sampling container should be held so that the opening faces upstream.
c. The samplings should be kept free from floating debris.
d. The primary permittee does not have to sample sheet flow onto undisturbed natural areas or area stabilized by the project.
e. All sampling pursuant to this permit must be done in such a way as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in parts III.D.3. or III.D.4., whichever is applicable.

Appendix B: Nephelometric Turbidity Unit Table (Supporting Warm Water Fisheries)

Table with columns: Site Size, acres (0.5-100.01) and Surface Water Drainage Area, square miles (150-500+). Values range from 75 to 750 NTU.

35. A USGS Topographic Map is shown on the next Erosion and Sediment Control Notes sheet.

36. A description of the controls and measures that will be implemented at the construction site is shown on the next Erosion and Sediment Control Notes sheet. Refer to Erosion and Sediment Control Plans for locations of these measures.

37. See Erosion and Sedimentation Control Plans for Graphic Scale and North Arrow.
38. See Erosion and Sedimentation Control Plans for Existing and proposed control lines.

39. No alternative BMPs will be used in this project.
40. No alternative BMPs for application to the Equivalent BMP List will be used in this project.

41. See Erosion and Sedimentation Control Plans for delineation of applicable 25- or 50-foot undisturbed buffers adjacent to State waters.

42. See Erosion and Sedimentation Control Plans for delineation of all State waters and wetlands located on and within 200 feet of the project site.

43. See Erosion and Sedimentation Control Plans for delineation and acreage of contributing drainage basins on the project site.

44. A hydrology study and drainage maps does not accompany these drawings as the project is restoring/modifying the configuration of the existing stormwater system.

45. Runoff Coefficients: Estimated pre-construction Runoff Coefficient (CN) = N/A (see #44 above) Estimated post-construction Runoff Coefficient (CN) = N/A (see #44 above)

46. The storm-drain pipes charts are shown on Storm Profile sheet C4.05 and the Outlet Protection chart is shown on the Erosion and Sediment Control Details sheet C6.41.

47. Soil Series Delineation is shown on the Initial Erosion and Sediment Control Plan(s). The Soil Series Legend is shown on the next Erosion and Sediment Control Notes sheet.

48. Limits of disturbance for initial, intermediate and final phases are shown on the accompanying Erosion and Sediment Control Plans.

49. No Sediment basins, sediment traps, and/or detention ponds worksheets as the project is restoring/modifying the configuration of the existing stormwater system.

50. Best Management Practices consistent with the Manual for Erosion and Sediment Control in Georgia are shown on all Erosion Control Plan sheets. Uniform Coding Symbols are shown in the accompanying Erosion and Sediment Control Details.

51. Details for each structural BMP shown on the Plans are shown in the accompanying Erosion and Sediment Control Details.

52. A Vegetative Plan, including all temporary and permanent practices, is shown in the accompanying Erosion and Sediment Control Details.



Neil M Schaap
Level II Certified Design Professional

CERTIFICATION NUMBER 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV FOR A MASTER PLANNED RESIDENTIAL DEVELOPMENT CITY OF BROOKHAVEN 4362 PEACHTREE RD BROOKHAVEN, GA 30319 PHONE: 404-637-0500

REVISIONS: Table with columns NO., DATE, BY, DESCRIPTION. Revisions 2 and 3 listed.

REVIEWER STAMP: BROOKHAVEN PR.#: 19-00049 DEKALB AP.#: 3045859

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EROSION CONTROL NOTES

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.



06/10/2020
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000067548 EXP. 12/21/2021

C6.01 SHEET

EROSION CONTROL NOTES

INITIAL PHASE(S)

- PRIOR TO LAND DISTURBING ACTIVITY, CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, FUEL STORAGE, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY.
- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:
 - THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF THE CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN(S).
 - TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
- WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
- AFTER APPROVAL OF INITIAL EROSION CONTROL MEASURES, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS (IF APPLICABLE).
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
- MULCH OR TEMPORARY GRASSING (WHICHEVER IS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLANS) SHALL BE APPLIED WITHIN FOURTEEN (14) DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ONE (1) INCH TO THREE (3) INCHES OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN(S) MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE THEY ARE PROPERLY FUNCTIONING.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

EROSION CONTROL NOTES

INTERMEDIATE PHASE(S)

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS (IF APPLICABLE TO THIS PROJECT) SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOES OF ALL SLOPES UNDER CONSTRUCTION (UNLESS OTHERWISE NOTED ON PLANS).
 - CUT SLOPES ARE NOT TO EXCEED 2H:1V
 - FILL SLOPES ARE NOT TO EXCEED 2H:1V
- STORM DRAIN OUTLET PROTECTION (IF APPLICABLE TO THIS PROJECT) SHALL BE PLACED AT ALL OUTLET HEADWALLS IMMEDIATELY AFTER THE HEADWALL IS CONSTRUCTED.
- ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN FOURTEEN (14) DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND (IF APPLICABLE TO THIS PROJECT) UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE-THIRD OF THE DESIGN DEPTH OF THE BASIN.
- MULCH OR TEMPORARY GRASSING (WHICHEVER IS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLANS) SHALL BE APPLIED WITHIN FOURTEEN (14) DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ONE (1) INCH TO THREE (3) INCHES OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN(S) MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE THEY ARE PROPERLY FUNCTIONING.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

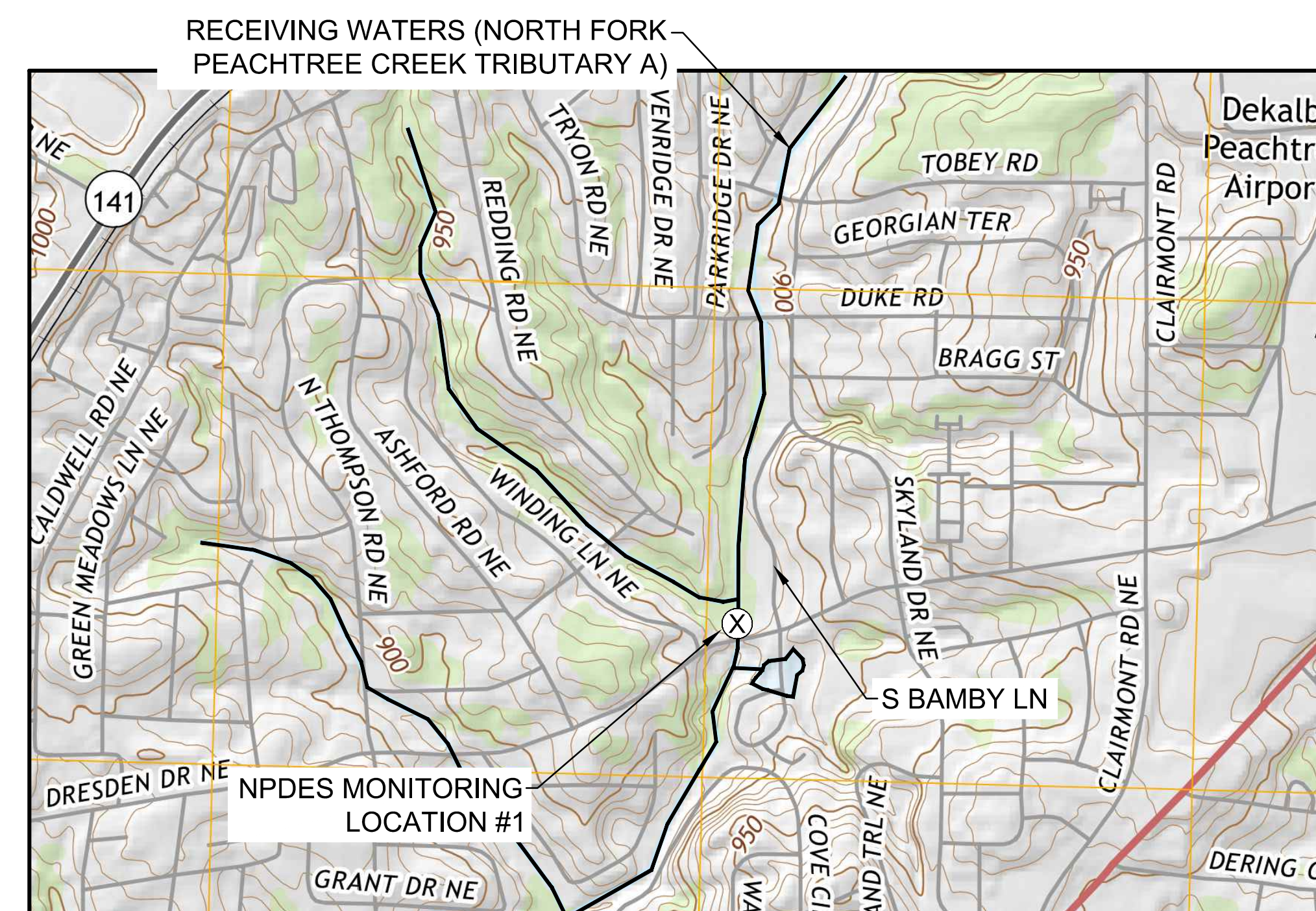
EROSION CONTROL NOTES

FINAL PHASE

- THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND (IF APPLICABLE TO THIS PROJECT) UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE-THIRD OF THE DESIGN DEPTH OF THE BASIN.
- ALL OPEN AREAS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE THEY ARE PROPERLY FUNCTIONING.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS OTHERWISE NOTED ON THE PLANS.

CONSTRUCTION SCHEDULE								
	FEB - MAR 2020							
	WEEK NO.							
	1	2	3	4	5	6	7	8
INSTALL CONSTRUCTION EXIT AND INITIAL EROSION CONTROL								
MAINTENANCE OF ES&PC BMPs								
INSTALL SEDIMENT STORAGE BMP(s)								
INSTALL STORMWATER SYSTEM (DIVERSIONS & PIPES)								
APPLICATION OF TEMPORARY VEGETATION								
GRADING								
INTERMEDIATE EROSION CONTROL								
PERMANENT VEGETATION OF AREA AT FINAL GRADE								
REMOVE TEMPORARY EROSION CONTROL DEVICES								

SOIL SERIES CLASSIFICATION	
PuE	Pacolet-Urban Complex, 10 to 25% slopes
Tf	Toccoa Sandy Loam, 0 to 2 % slopes, frequently flooded



USGS TOPO
N.T.S.

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Neil M Schaap
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
FOR A MASTER PLANNED RESIDENTIAL DEVELOPMENT
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

PLANNERS AND ENGINEERS COLLABORATIVE
SITE PLANNING LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND SURVEYING
350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092 (770) 451-2741 FAX (770) 451-9915

REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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EROSION CONTROL NOTES

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

THIS SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE.

REGISTERED PROFESSIONAL ENGINEER
NEIL M. SCHAAP
01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

2
C6.02
SHEET

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOLING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wl	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GA SWCC (Amended - 2013)

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
 A MASTER PLANNED RESIDENTIAL DEVELOPMENT
 FOR
CITY OF BROOKHAVEN
 4362 PEACHTREE RD
 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500
 CITY OF BROOKHAVEN
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REVISIONS:			
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EROSION CONTROL NOTES

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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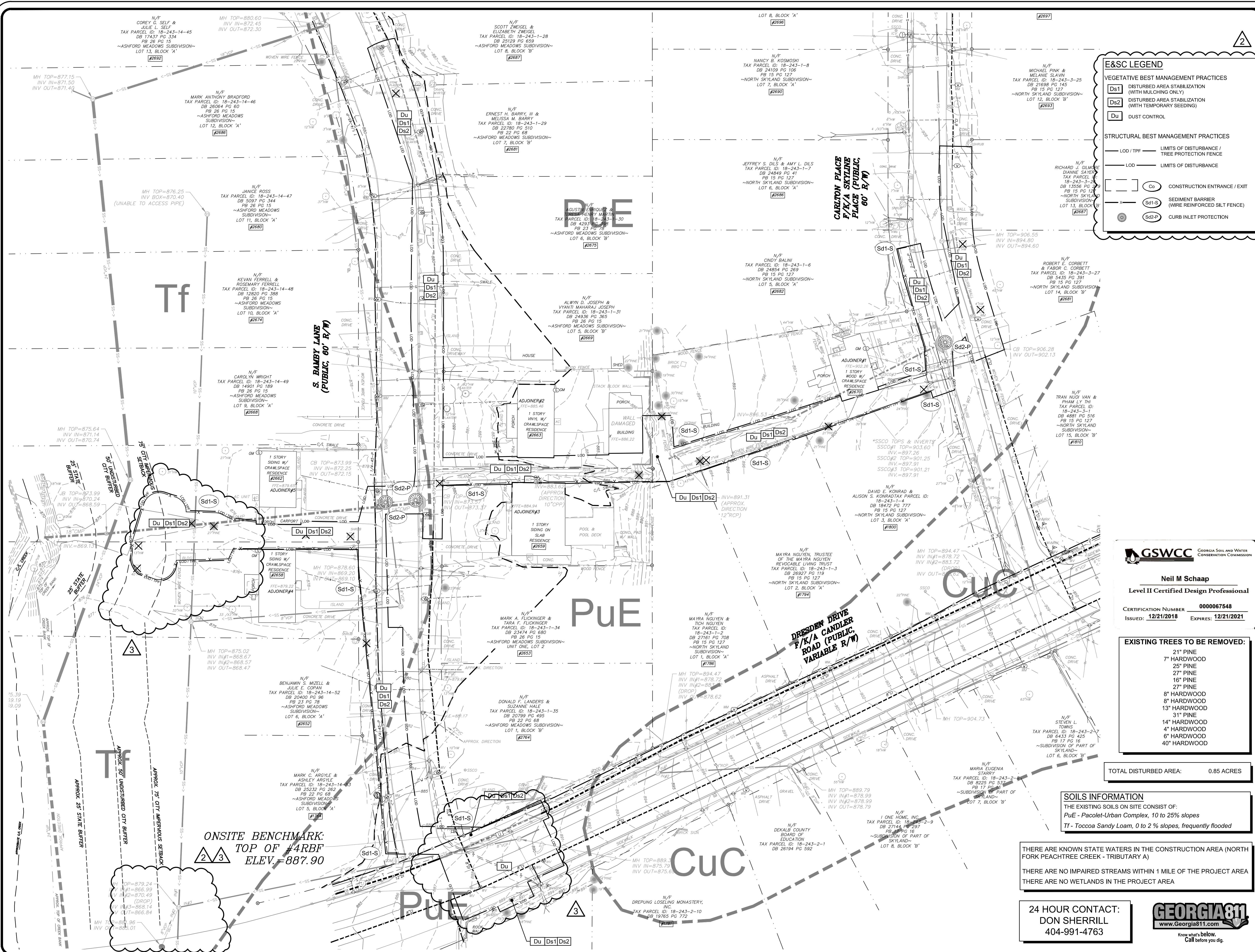
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000067548 EXP. 12/21/2021

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Neil M Schaap
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

2
C6.03
SHEET



E&S LEGEND

VEGETATIVE BEST MANAGEMENT PRACTICES

- Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- Du DUST CONTROL

STRUCTURAL BEST MANAGEMENT PRACTICES

- LOD / TPF LIMITS OF DISTURBANCE / TREE PROTECTION FENCE
- LOD LIMITS OF DISTURBANCE
- Co CONSTRUCTION ENTRANCE / EXIT
- Sd1-S SEDIMENT BARRIER (WIRE REINFORCED SILT FENCE)
- Sd2-P CURB INLET PROTECTION

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Neil M Schaap
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

- EXISTING TREES TO BE REMOVED:**
- 21" PINE
 - 7" HARDWOOD
 - 25" PINE
 - 27" PINE
 - 16" PINE
 - 27" PINE
 - 8" HARDWOOD
 - 8" HARDWOOD
 - 13" HARDWOOD
 - 31" PINE
 - 14" HARDWOOD
 - 4" HARDWOOD
 - 6" HARDWOOD
 - 40" HARDWOOD

TOTAL DISTURBED AREA: 0.85 ACRES

SOILS INFORMATION

THE EXISTING SOILS ON SITE CONSIST OF:

- PuE - Pacolet-Urban Complex, 10 to 25% slopes
- Tf - Toccoa Sandy Loam, 0 to 2% slopes, frequently flooded

THERE ARE KNOWN STATE WATERS IN THE CONSTRUCTION AREA (NORTH FORK PEACHTREE CREEK - TRIBUTARY A)

THERE ARE NO IMPAIRED STREAMS WITHIN 1 MILE OF THE PROJECT AREA

THERE ARE NO WETLANDS IN THE PROJECT AREA

24 HOUR CONTACT:
DON SHERRILL
404-991-4763

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INITIAL EROSION CONTROL PLAN



SCALE: 1" = 30'
DATE: 06/12/2019
PROJECT: 19051.00

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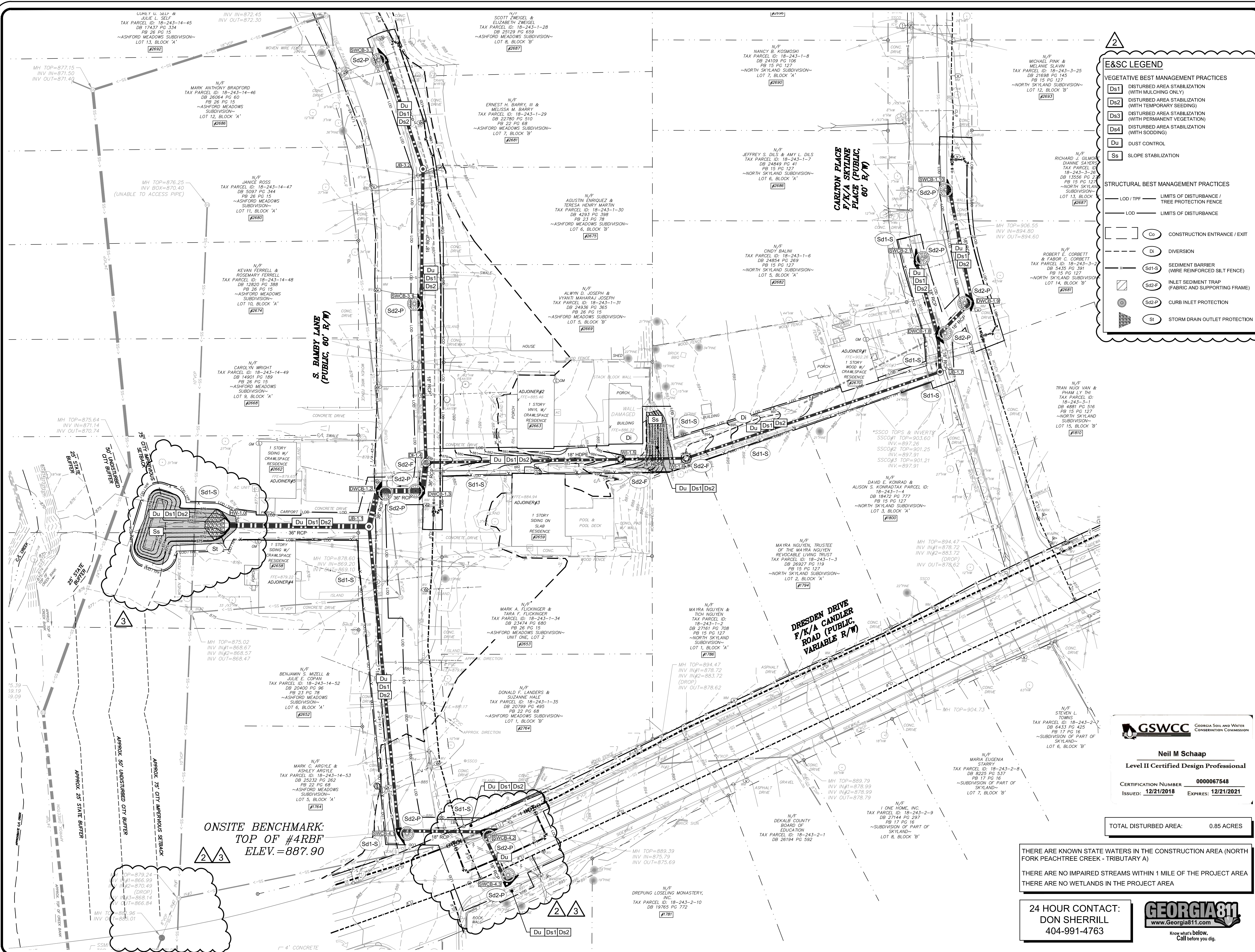
REGISTERED PROFESSIONAL ENGINEER
NEIL M. SCHAAP
01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

C6.10

SHEET

11/18/2019 10:00am - EROSION CONTROL PLAN - 19051.00.dwg - KSM/mb - 1/10/2020 1:55 PM



E&S LEGEND

VEGETATIVE BEST MANAGEMENT PRACTICES

- Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
- Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)
- Du DUST CONTROL
- Ss SLOPE STABILIZATION

STRUCTURAL BEST MANAGEMENT PRACTICES

- LOD / TPF LIMITS OF DISTURBANCE / TREE PROTECTION FENCE
- LOD LIMITS OF DISTURBANCE
- Co CONSTRUCTION ENTRANCE / EXIT
- Di DIVERSION
- Sd1-S SEDIMENT BARRIER (WIRE REINFORCED SILT FENCE)
- Sd2-F INLET SEDIMENT TRAP (FABRIC AND SUPPORTING FRAME)
- Sd2-P CURB INLET PROTECTION
- St STORM DRAIN OUTLET PROTECTION

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LAND LOT 243
18TH DISTRICT

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REVIEWER STAMP

REVIEWER	DATE

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INTERMEDIATE EROSION CONTROL PLAN



SCALE: 1" = 30'
DATE: 06/12/2019
PROJECT: 19051.00

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01/10/2020
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000067548 EXP. 12/21/2021

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Neil M Schaap
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000067548
ISSUED: 12/21/2018 EXPIRES: 12/21/2021

TOTAL DISTURBED AREA: 0.85 ACRES

THERE ARE KNOWN STATE WATERS IN THE CONSTRUCTION AREA (NORTH FORK PEACHTREE CREEK - TRIBUTARY A)
THERE ARE NO IMPAIRED STREAMS WITHIN 1 MILE OF THE PROJECT AREA
THERE ARE NO WETLANDS IN THE PROJECT AREA

24 HOUR CONTACT:
DON SHERRILL
404-991-4763

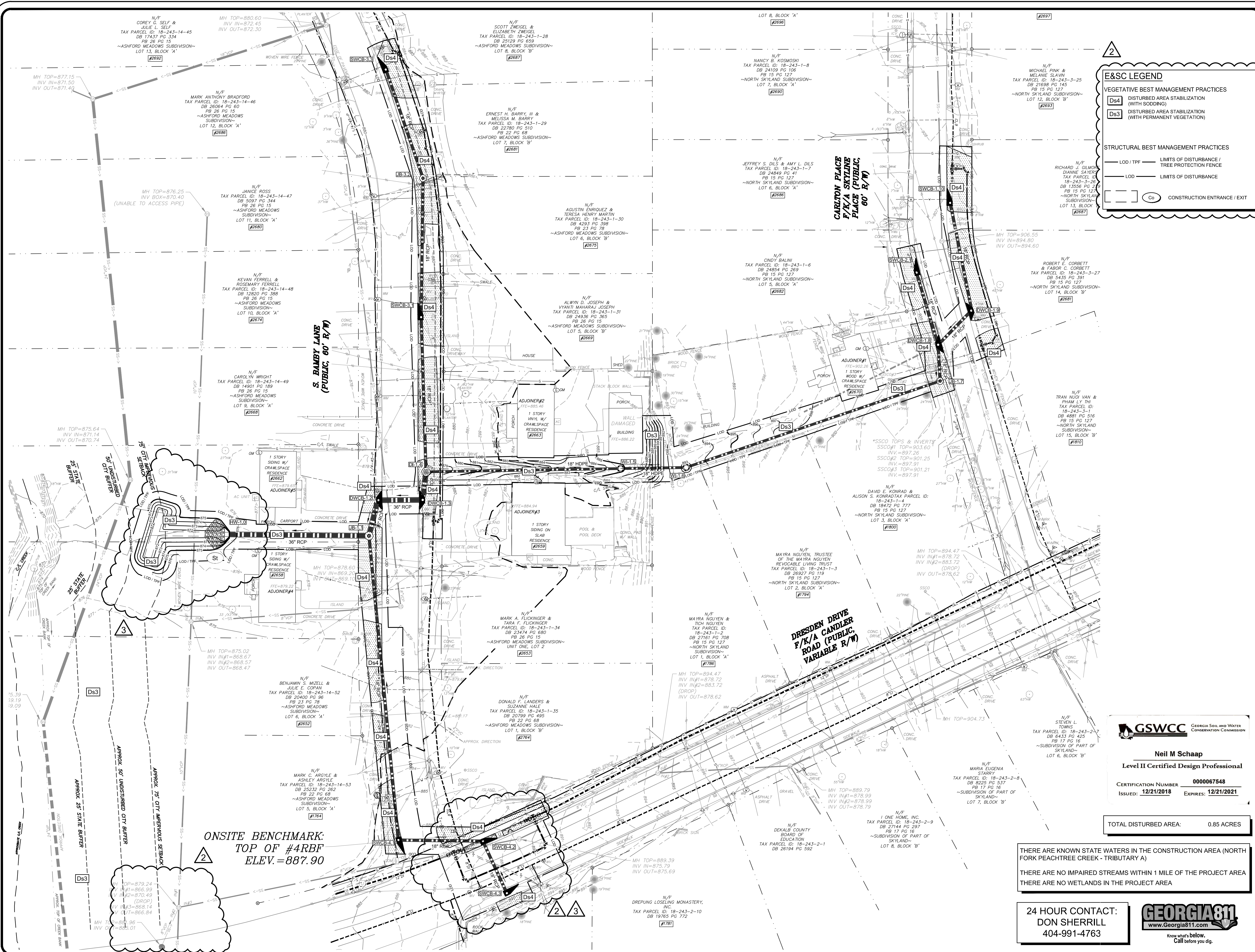
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C6.20
SHEET

ONSITE BENCHMARK:
TOP OF #4RBF
ELEV.=887.90



E&S LEGEND

VEGETATIVE BEST MANAGEMENT PRACTICES

- Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)
- Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

STRUCTURAL BEST MANAGEMENT PRACTICES

- LOD / TPF LIMITS OF DISTURBANCE / TREE PROTECTION FENCE
- LOD LIMITS OF DISTURBANCE
- Co CONSTRUCTION ENTRANCE / EXIT

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
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NO.	DATE	BY	DESCRIPTION
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FINAL EROSION CONTROL PLAN

SCALE: N/A
 DATE: 06/12/2019
 PROJECT: 19051.00

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10/10/2020

REGISTERED PROFESSIONAL ENGINEER
 NEIL M. SCHAAP
 No. 34258

GSWCC LEVEL II DESIGN PROFESSIONAL
 CERTIFICATION # 0000067548 EXP. 12/21/2021

24 HOUR CONTACT:
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GSWCC Georgia Soil and Water Conservation Commission

Neil M Schaap
 Level II Certified Design Professional

CERTIFICATION NUMBER: 0000067548
 ISSUED: 12/21/2018 EXPIRES: 12/21/2021

TOTAL DISTURBED AREA: 0.85 ACRES

THERE ARE KNOWN STATE WATERS IN THE CONSTRUCTION AREA (NORTH FORK PEACHTREE CREEK - TRIBUTARY A)

THERE ARE NO IMPAIRED STREAMS WITHIN 1 MILE OF THE PROJECT AREA

THERE ARE NO WETLANDS IN THE PROJECT AREA

ONSITE BENCHMARK:
 TOP OF #4RBF
 ELEV. = 887.90

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.
- Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicide or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests of Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./acre)	Fertilizer Rate	Season
10/10/20/10	1000	0.0250	Fall

- Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod.
- On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4" immediately after installation.
- Sod should not be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.

- Sod should be machine cut and contain 3/4" ± 1/4" of soil, not including shoots or hatch.
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6-6.2. See figure 6-4.1 for your Resource Area.

Table 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L, P, C P, C P, C	Warm Weather
Bahiagrass	Pensacola	P, C	Warm Weather
Centpede	-	P, C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Myer	P, C	Warm Weather
Tall Rescue	Kentucky	M-L, P	Cool Weather

MAINTENANCE

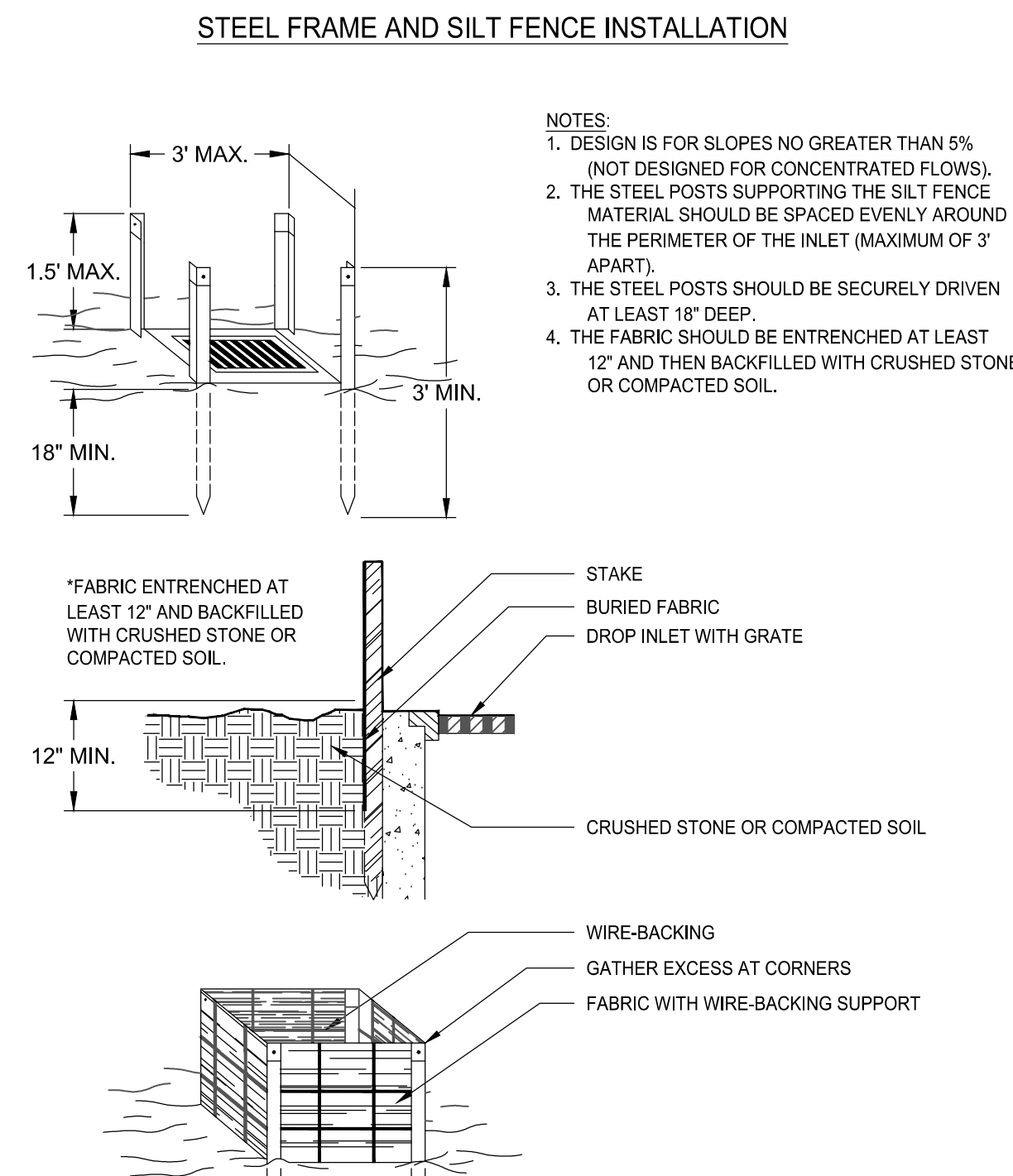
- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test every 4-6 years.
- Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

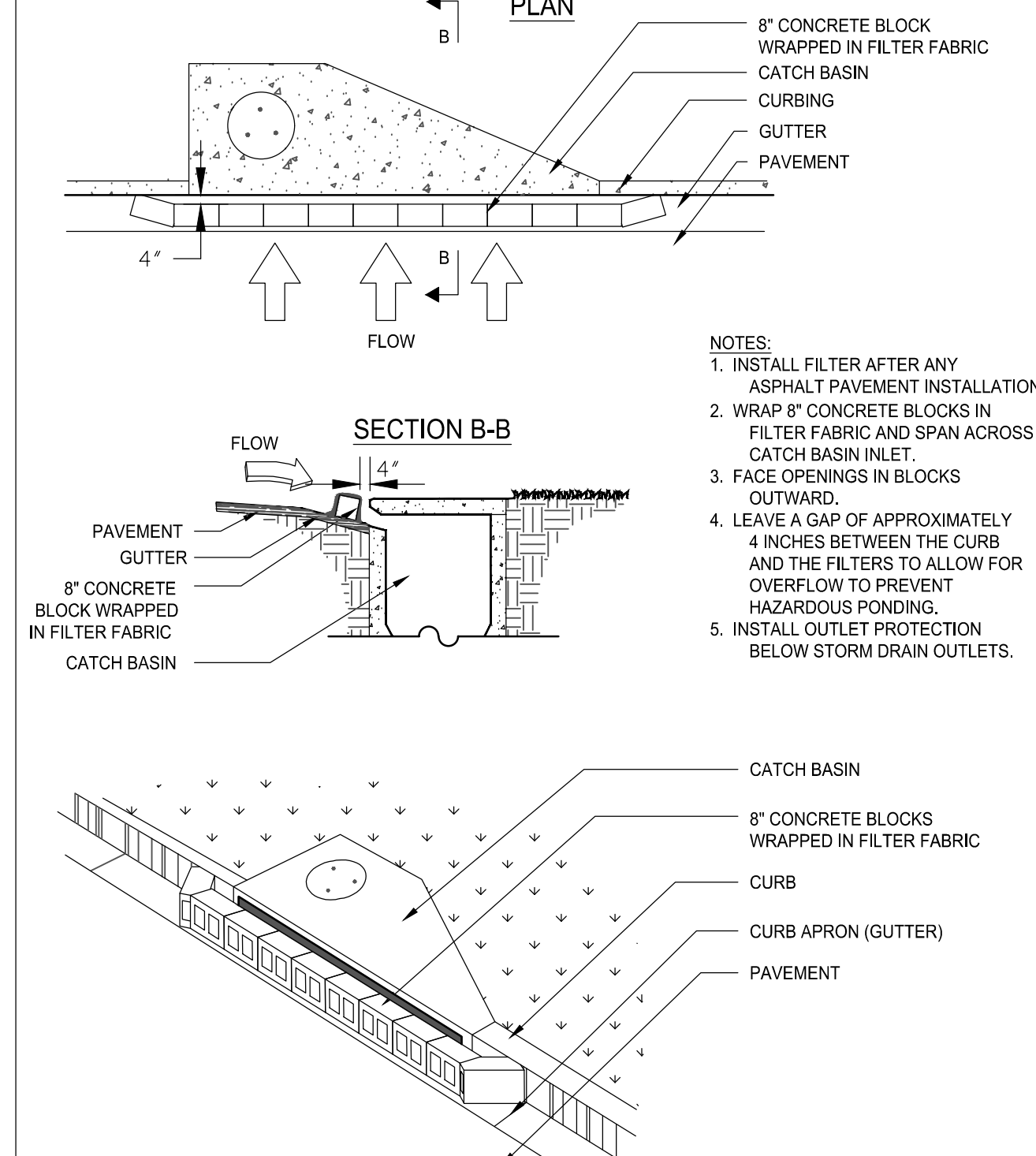
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

Sd2-F



CURB INLET FILTER "PIGS IN BLANKET"

Sd2-P



Di SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

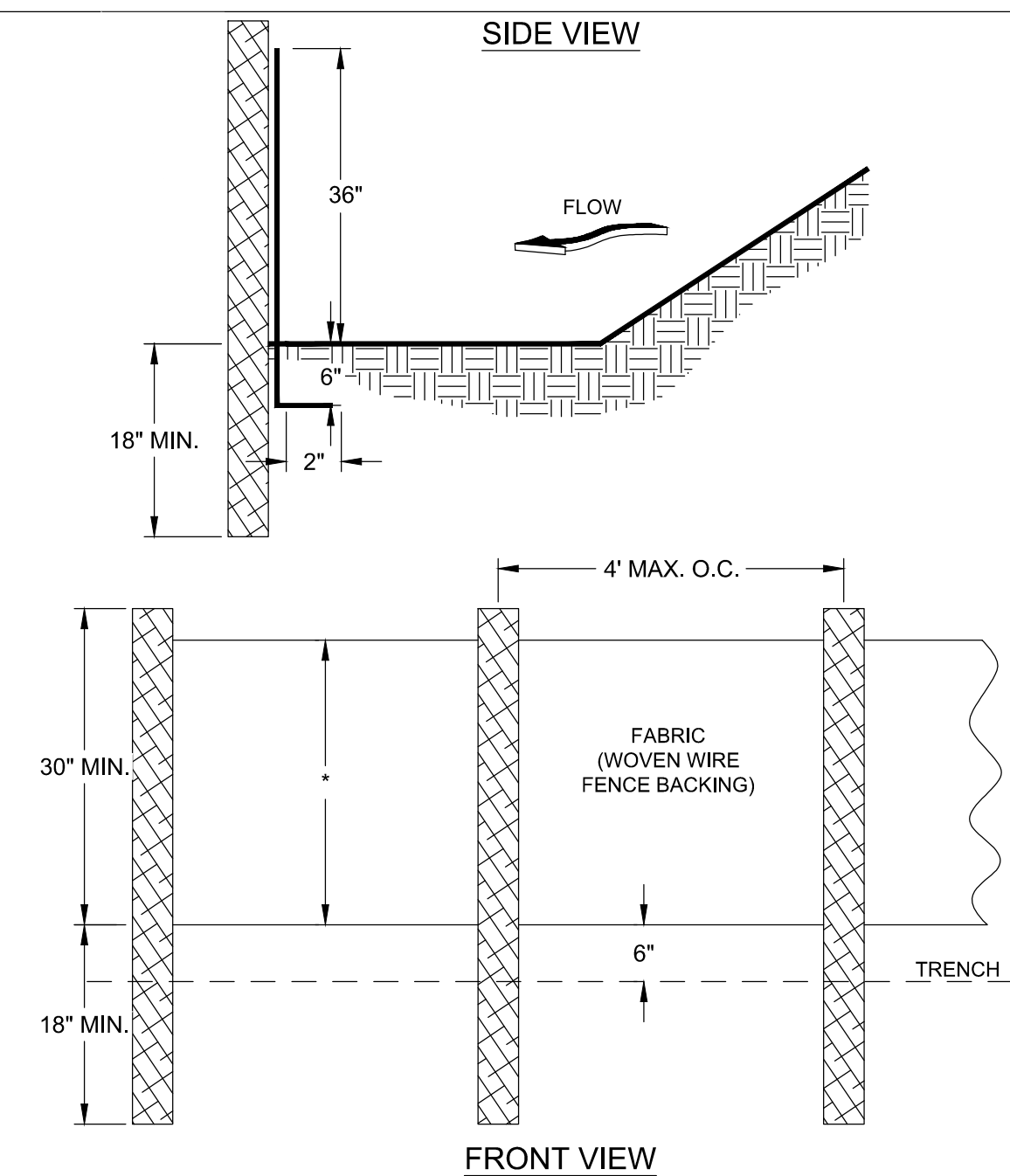
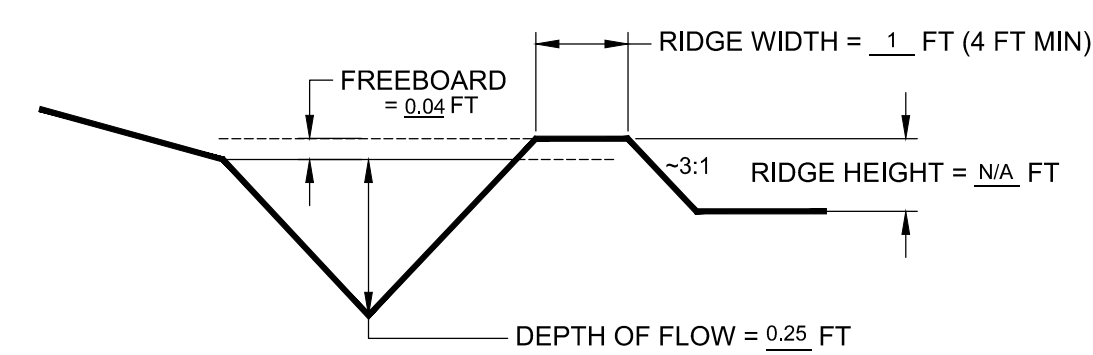
COMPLETE THE APPROPRIATE DETAIL DRAWING FOR THE CHANNEL CROSS-SECTION OF CHOICE.

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Di

Triangular			
Side Slopes (z:1)	= 2.00, 2.00	Highlighted	= 0.25
Total Depth (ft)	= 0.30	Depth (ft)	= 0.100
		Q (cfs)	= 0.13
Invert Elev (ft)	= 885.70	Area (sqft)	= 0.80
Slope (%)	= 0.50	Velocity (ft/s)	= 1.12
N-Value	= 0.028	Wetted Perim (ft)	= 1.18
		Crit Depth, Yc (ft)	= 1.00
Calculations		Top Width (ft)	= 0.26
Compute by:	Known Q	EGL (ft)	= 0.26
Known Q (cfs)	= 0.10		



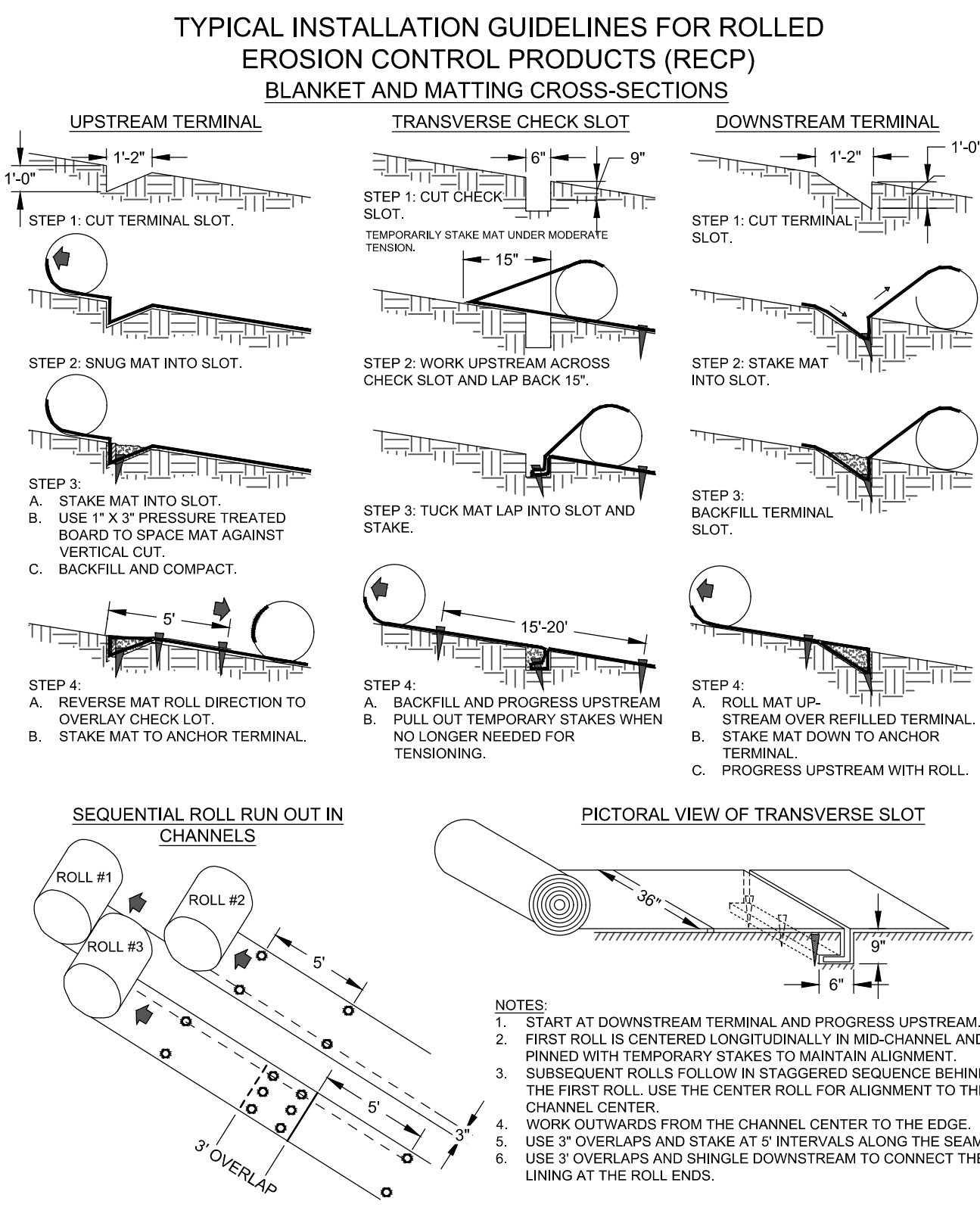
- NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (") IS TYPICAL FOR ALL THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS

Sd1-S SILT FENCE - TYPE SENSITIVE

N.T.S.

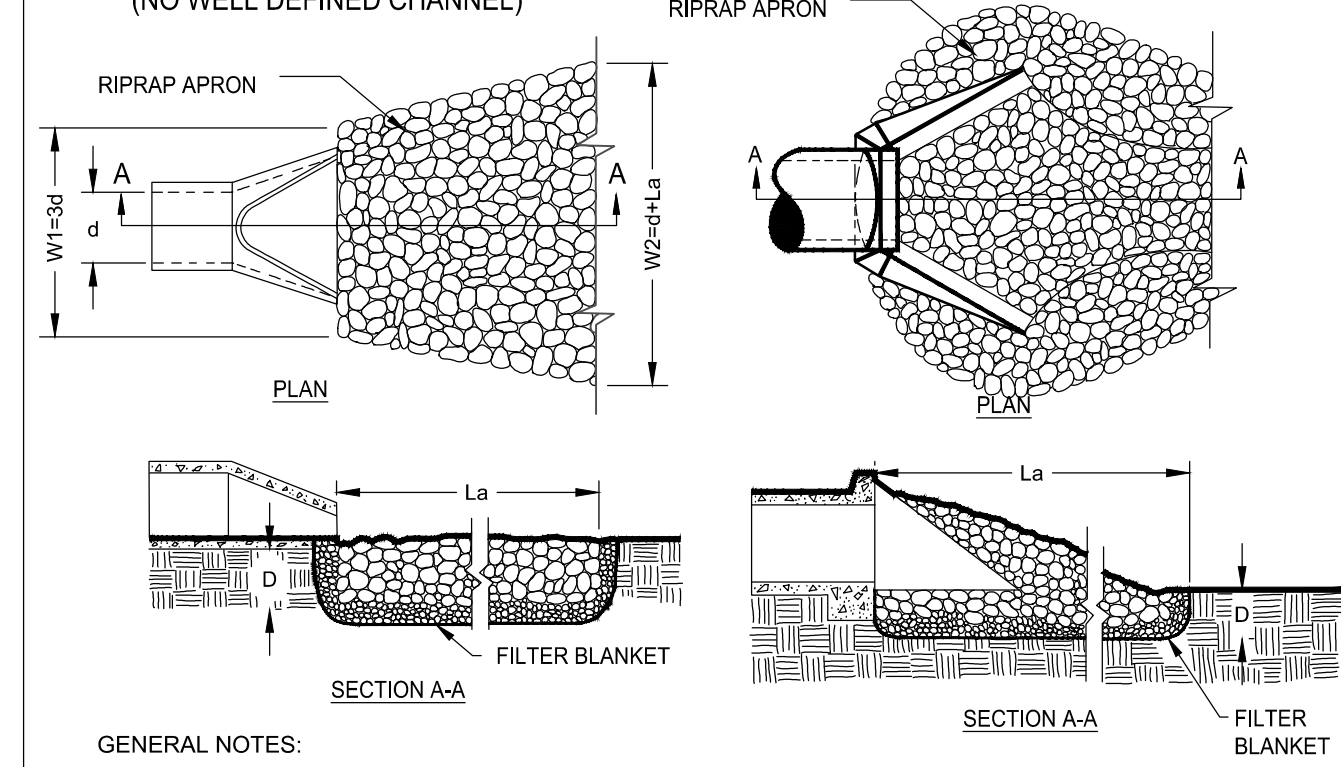
Ss SLOPE STABILIZATION

N.T.S.



St RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA (NO WELL DEFINED CHANNEL) and PIPE OUTLET TO WELL DEFINED CHANNEL



GENERAL NOTES:

1. L_a IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

ADDITIONAL NOTES:

- A. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
- B. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" (150mm) THICK MINIMUM GRADED GRAVEL LAYER.
- C. W1 AND W2 FOR PIPES OUTFALLING INTO A DEFINED DITCH SHOULD BE SUFFICIENTLY WIDE TO HAVE STONE ONE FOOT ABOVE THE CROWN OF THE PIPE OR THE TOP OF DITCH BANK, WHICH EVER IS LOWER.

Location	d (in)	Max Flow (cfs)	d ₅₀ (ft)	W1 (ft)	La (ft)	W2 (ft)	V (ft/s)	D (ft)
HW-1.0	36	40.71	0.33	9	14	21	5.76	1
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

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LAND LOT 2-43
18TH DISTRICT

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REVISIONS:

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EROSION & SEDIMENT CONTROL DETAILS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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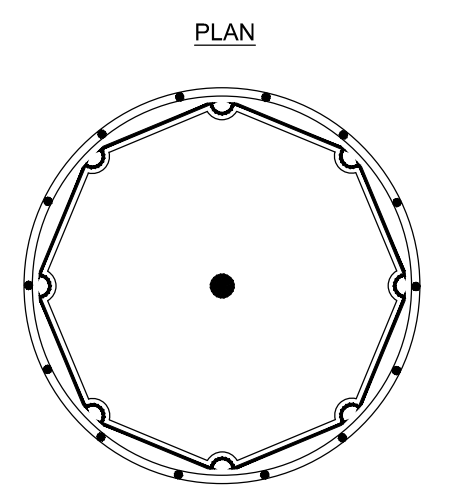


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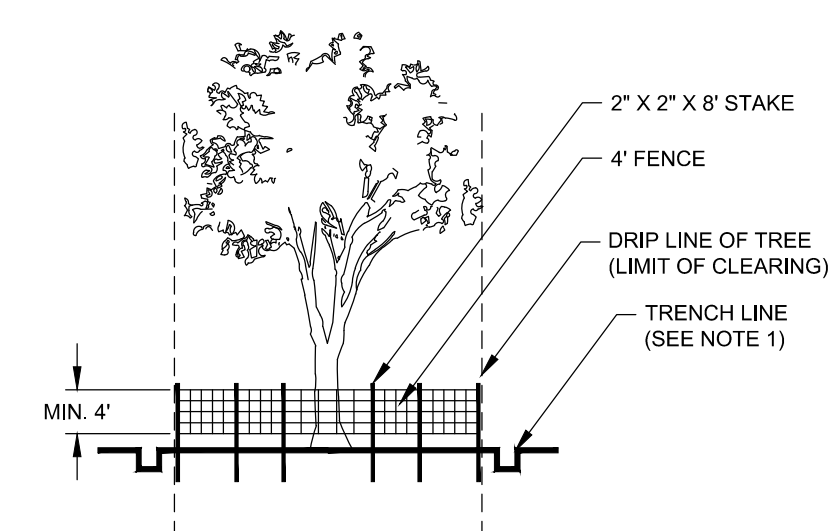
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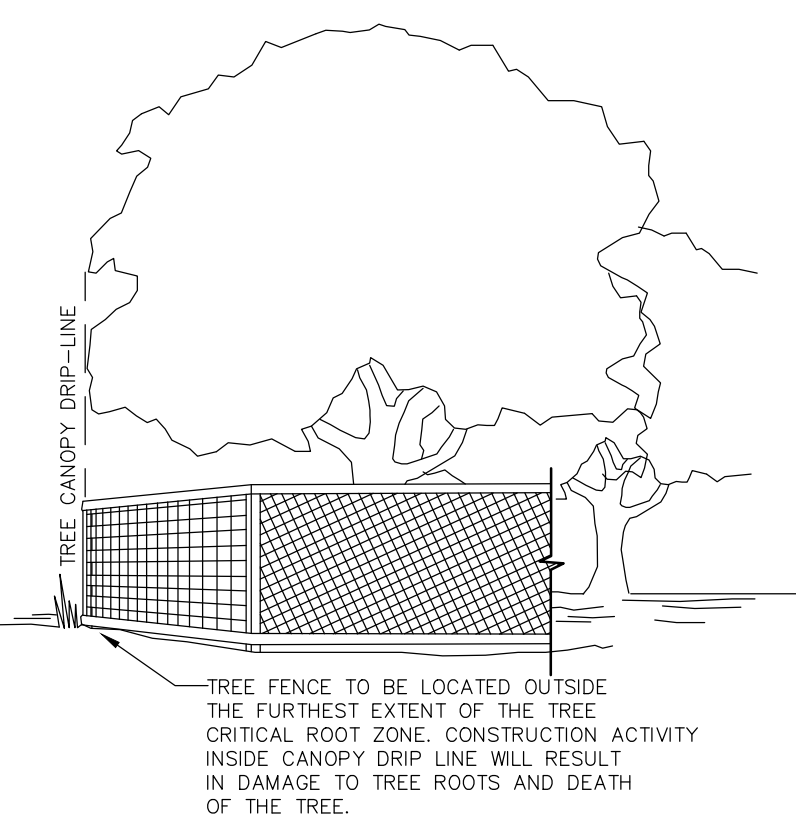
Tr **TREE PROTECTION**
"SNOW" FENCE



CROSS-SECTION



- NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

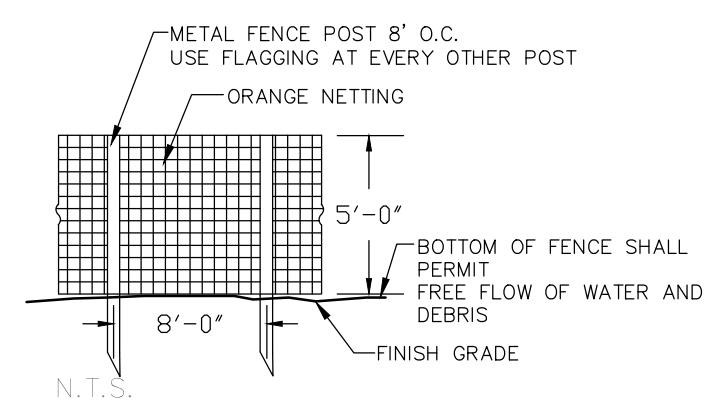


**TREE PROTECTION AREA
KEEP OUT!**

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND ARE SUBJECT OF A TREE PRESERVATION ORDER (TOWN & COUNTRY PLANNING ACT 1990). CONTRAVENTION OF TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION.

THE FOLLOWING MUST BE OBSERVED BY ALL PERSONS:-

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.



**TREE PROTECTION SIGN
PLACED AT LEAST EVERY
50' ALONG LENGTH OF
TREE PROTECTION FENCE.
ALSO PROVIDE SIGNS IN
SPANISH**

TREE PROTECTION FENCE

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
A MASTER PLANNED RESIDENTIAL DEVELOPMENT
FOR
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

CITY OF BROOKHAVEN
DEKALB COUNTY
GEORGIA

LAND LOT 243
18TH DISTRICT

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REVISIONS:

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3	01-10-20	MS	CITY COMMENTS

REVIEWER STAMP

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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EROSION & SEDIMENT CONTROL DETAILS



SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

2
C6.42
SHEET

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CITY OF BROOKHAVEN
4382 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

REVISIONS:

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NO.	DATE	BY	DESCRIPTION
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BROOKHAVEN PRJ# 19-00049
DEKALB AP# 3045859

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STORMWATER CONSTRUCTION DETAILS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000067548 EXP. 12/21/2021

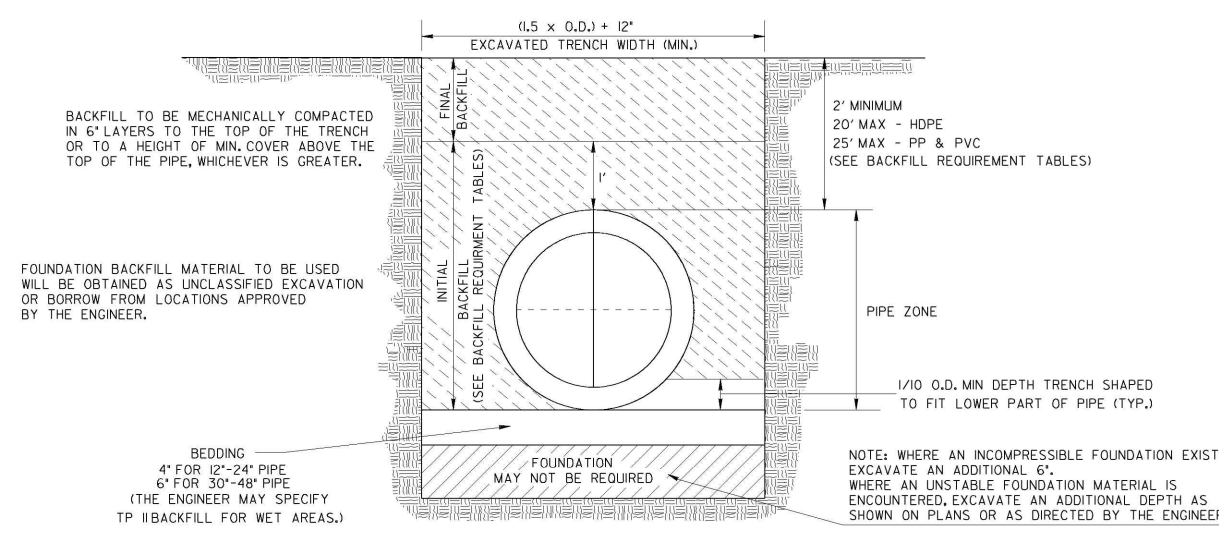
C9.00
SHEET

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

ALLOWABLE PIPE SIZES

HIGH DENSITY POLYETHYLENE (HDPE) AASHTO M 294	POLYPROPYLENE (PP) AASHTO M 330	PROFILE WALL POLYVINYL CHLORIDE (PVC) AASHTO M 304	CORRUGATED SMOOTH INTERIOR POLYVINYL CHLORIDE (PVC) ASTM F 949
NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)
12	12	12	12
15	15	15	15
18	18	18	18
24	24	24	24
30	30	30	30
36	36	36	36
42	42	42	42
48	48	48	48

THERMOPLASTIC PIPE TRENCH INSTALLATIONS



BACKFILL REQUIREMENT TABLES

STORM DRAIN INSTALLATIONS			
PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	CLASS B22 OR BETTER	CLASS B22 OR BETTER
PVC	25	STRUCTURAL OR BETTER	CLASS B22 OR BETTER
PP	25	STRUCTURAL OR BETTER	CLASS B22 OR BETTER

SIDE DRAIN (DRIVEWAY) INSTALLATIONS (FILL HEIGHTS UP TO 10-FT)			
PIPE TYPE	FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	10	CLASS B22 OR BETTER	CLASS B22 OR BETTER
PVC	10	CLASS B33 OR BETTER	CLASS B33 OR BETTER
PP	10	CLASS B33 OR BETTER	CLASS B33 OR BETTER

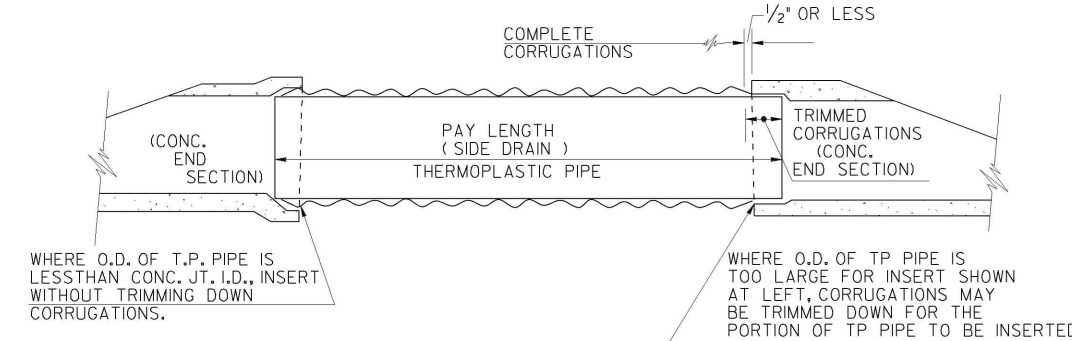
SIDE DRAIN (DRIVEWAY) INSTALLATIONS (FILL HEIGHTS ABOVE 10-FT)			
PIPE TYPE	FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	STRUCTURAL OR BETTER	CLASS B22 OR BETTER
PVC	25	STRUCTURAL OR BETTER	CLASS B22 OR BETTER
PP	25	STRUCTURAL OR BETTER	CLASS B22 OR BETTER

- GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. THE MINIMUM COVER SHALL BE 24" FOR STORM AND SIDE DRAIN AND 12" FOR SLOPE DRAIN PIPE.
3. THE MAXIMUM HEIGHT OF FILL SHALL BE:
- 20' FOR HIGH DENSITY POLYETHYLENE (HDPE)
- 25' FOR POLYVINYL CHLORIDE (PVC)
- 25' FOR POLYPROPYLENE (PP)
4. MINIMUM PIPE STIFFNESS SHALL BE IN ACCORDANCE WITH AASHTO M 294, TYPE "S" FOR HDPE PIPE, AASHTO M 304 FOR PROFILE WALL PVC PIPE, AASHTO M 330 FOR PP PIPE, AND ASTM F 949 FOR CORRUGATED SMOOTH INTERIOR PVC PIPE.
5. METAL FLARED END SECTIONS PER STD. 120 ARE PERMITTED ONLY WHERE THE PLANS LIST PLAIN CORRUGATED STEEL PIPE AS AN ALLOWABLE ALTERNATE FOR THE CULVERT.
6. GRADED AGGREGATE MEETING SUBSECTION B5.2.20 SHALL BE USED FOR STRUCTURAL BACKFILL IN ACCORDANCE WITH BACKFILL REQUIREMENT TABLES AND WILL NOT BE PAID FOR SEPARATELY. PAYMENT WILL BE INCLUDED IN THE OVERALL PRICE BID FOR PIPE.
7. NORMAL BACKFILL MATERIAL MEETING SUBSECTION B02.2.20 MAY BE USED FOR SIDE DRAIN APPLICATIONS FOR FILL HEIGHTS UP TO 10 FT IN ACCORDANCE WITH TYPE AND CLASS LISTED IN THE BACKFILL REQUIREMENT TABLES. IF THE REQUIRED SOIL CLASS IS NOT AVAILABLE USE GRADED AGGREGATE MATERIAL MEETING SUBSECTION B5.2.0.

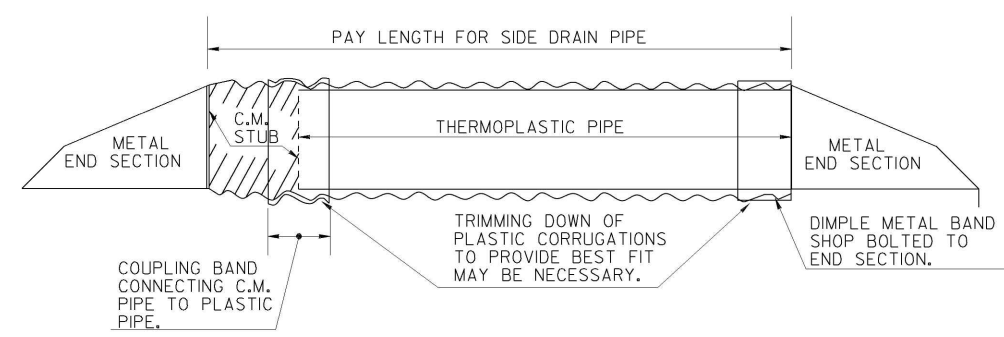
DATE	REVISION

DATE	REVISION

CONCRETE TO THERMOPLASTIC SIDE DRAIN OR CROSS DRAIN CONNECTION ALTERNATES

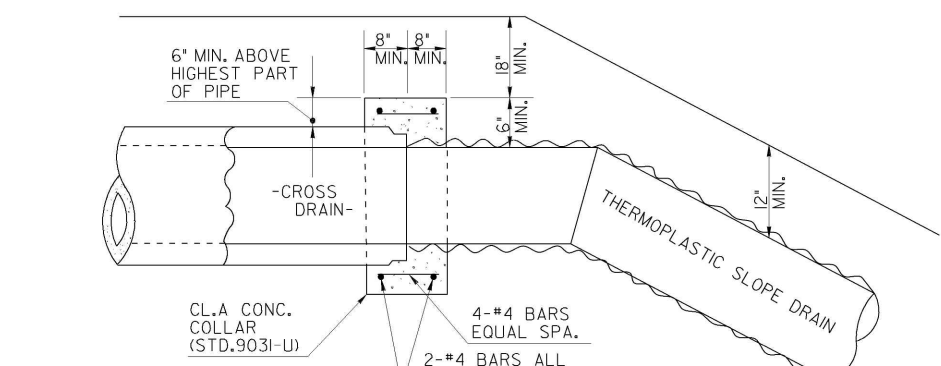


METAL TO THERMOPLASTIC SIDE DRAIN CONNECTION ALTERNATES (SEE GENERAL NOTE NO. 5)



NOTE:
FOR PLASTIC SIDE DRAIN CONNECTIONS TO SAFETY END SECTIONS, SEE THE SMOOTH TAPERED SLEEVE CONNECTOR DETAILS (SEE GA STANDARD I22 FOR SAFETY SLOPE END SECTIONS FOR SIDE DRAIN PIPES).

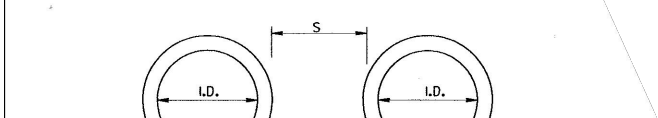
CROSS DRAIN TO THERMOPLASTIC SLOPE DRAIN CONNECTION



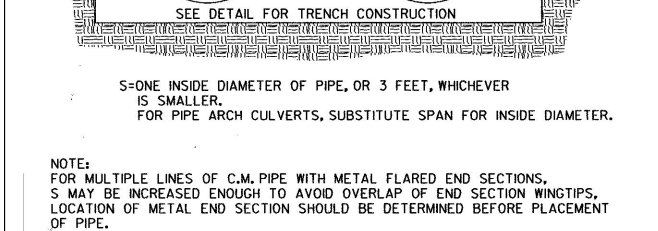
NOTES:
PAYMENT FOR 1/4 L.F.T. OF PIPE SHALL INCLUDE THE CONCRETE COLLAR. CONCRETE COLLARS ARE ALSO PERMITTED FOR SIDE DRAIN CONNECTIONS. CONNECTIONS SHOWN ABOVE FOR SIDE DRAIN ARE NOT PERMITTED FOR SLOPE DRAIN CONNECTIONS.

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE																		PIPE DIAMETER (INCHES)
			1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90							
12	CONCRETE	12	II	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	V	V	12	
	STEEL 1	12	II	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	V	V	12	
	ALUM 1	12	II	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	V	V	12	

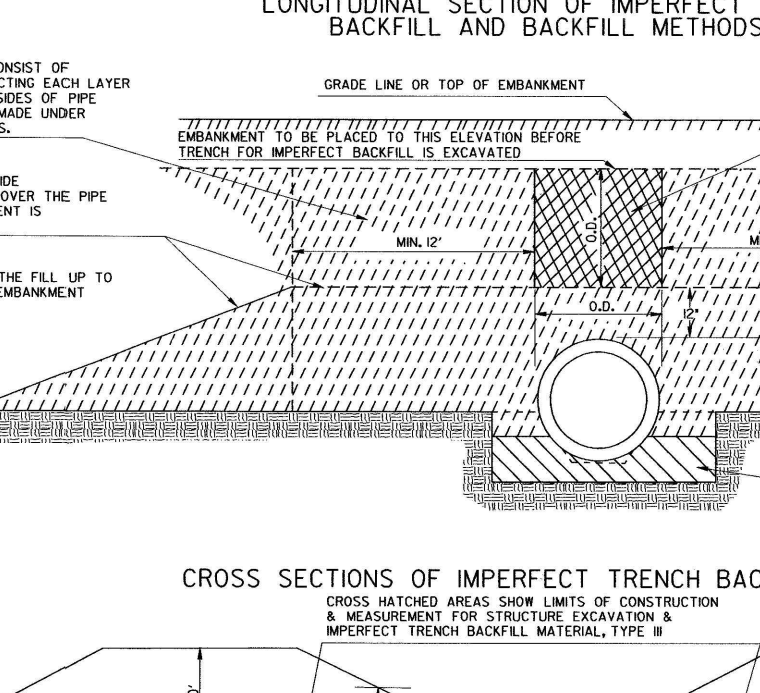
MULTIPLE PIPE CULVERT SPACING



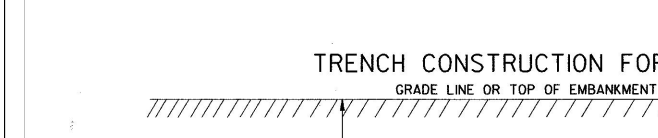
NORMAL BACKFILL



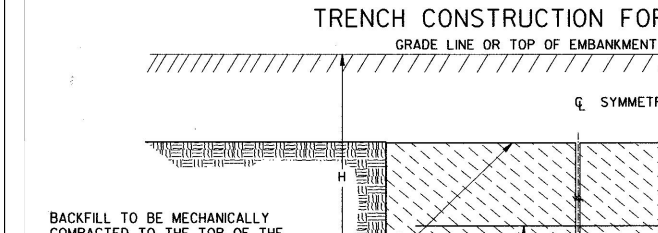
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



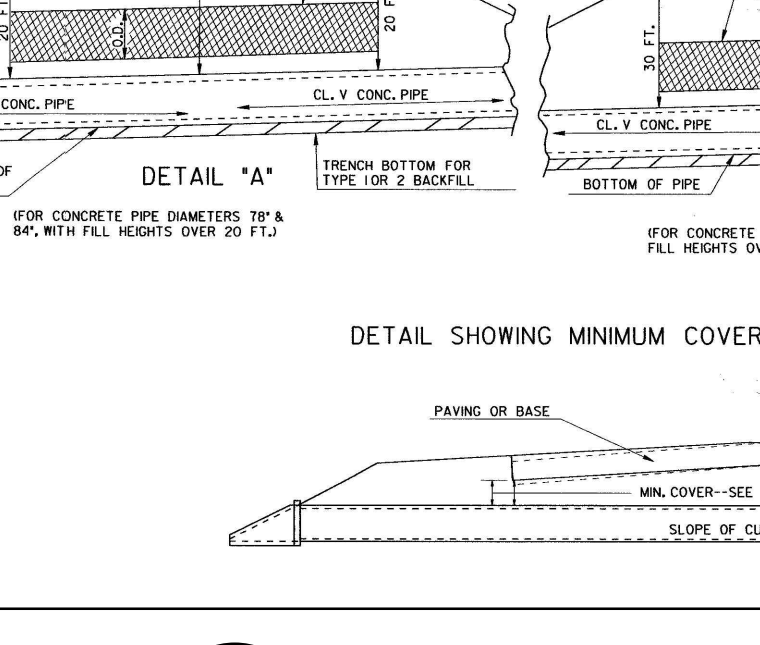
TRENCH CONSTRUCTION FOR SIDE DRAIN



TRENCH CONSTRUCTION FOR STORM DRAIN



CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

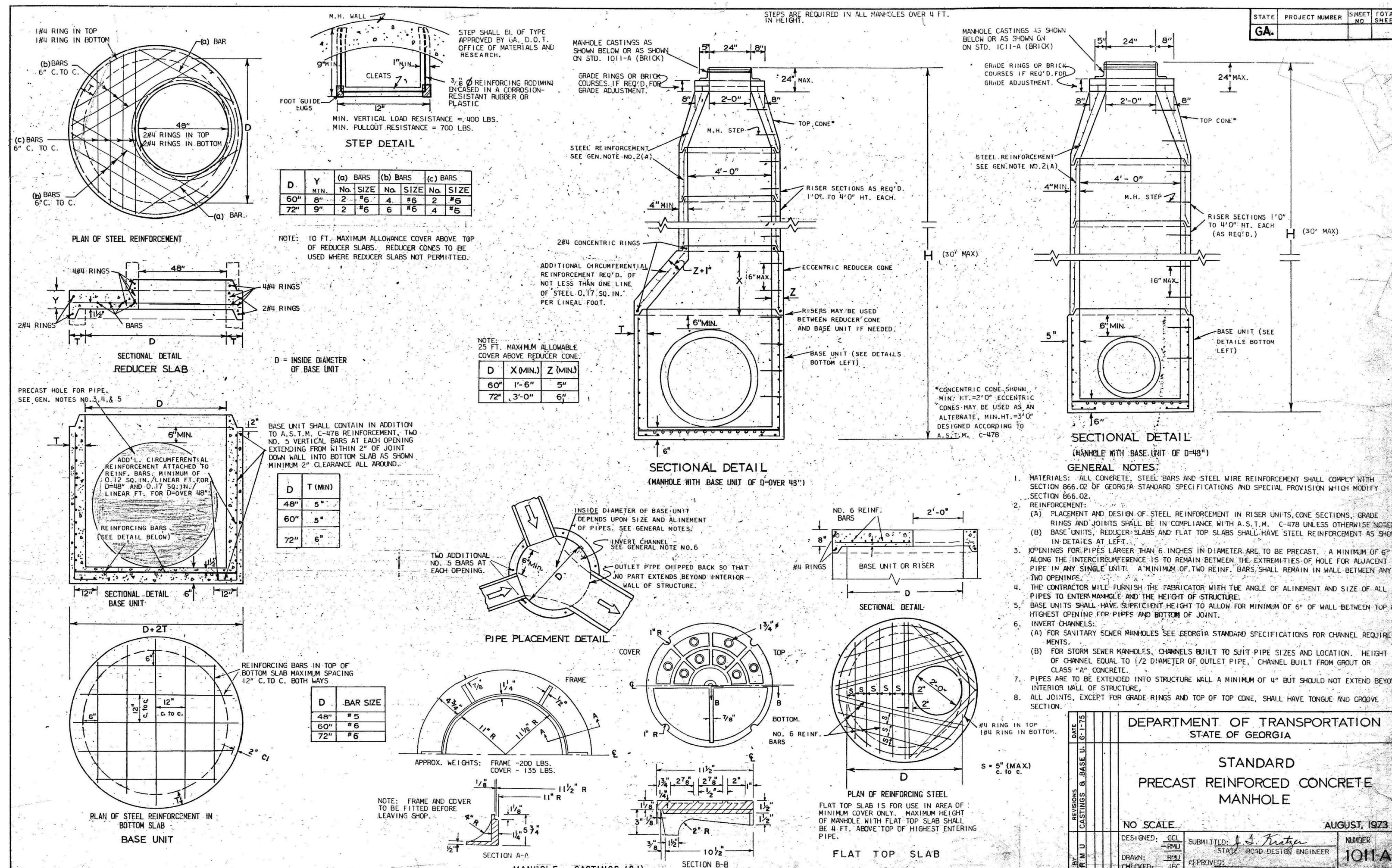


DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS

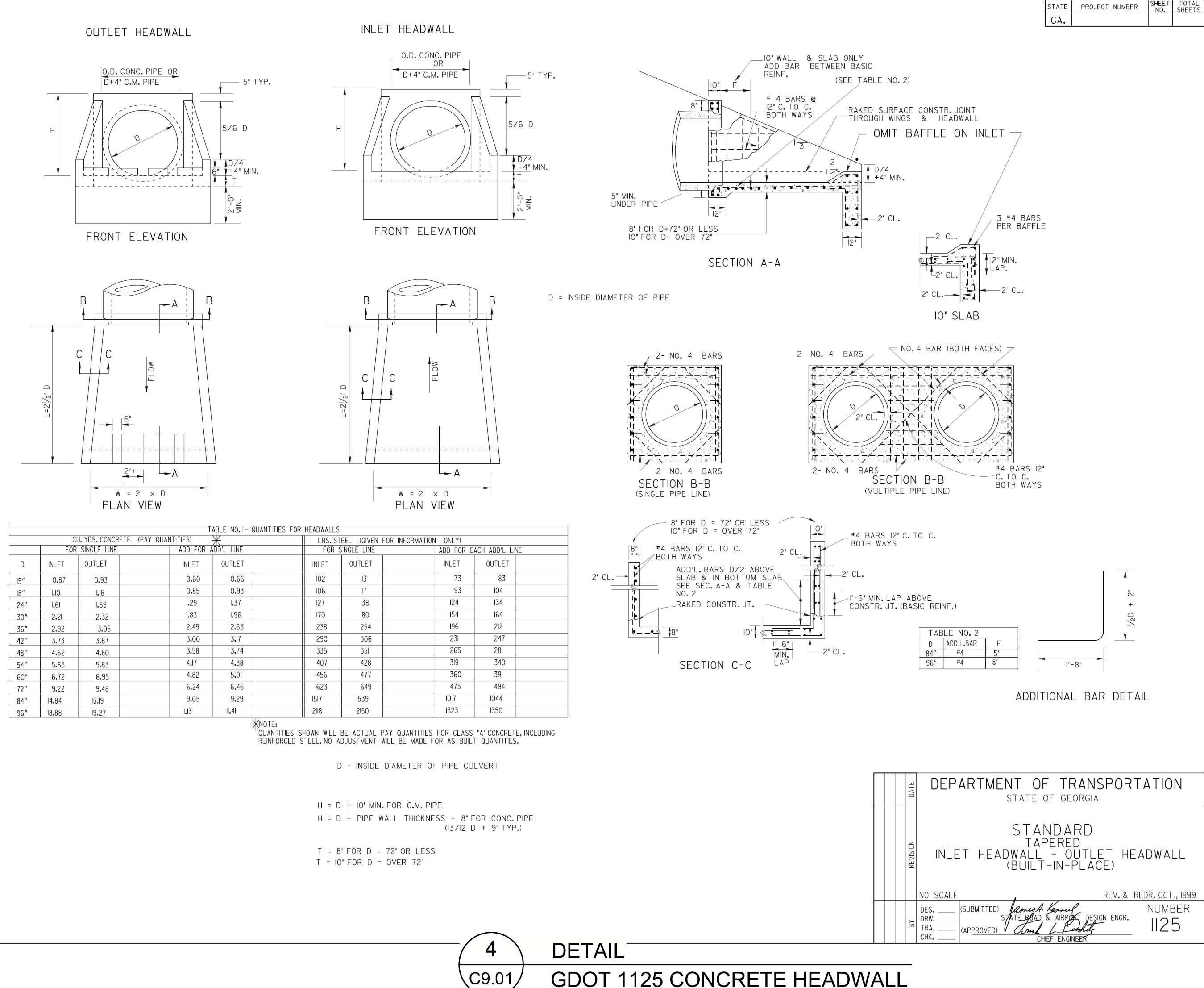


2
C9.00

DETAIL
GDOT 1030D CULVERT EMBEDMENT



3 DETAIL
C9.01 GDOT 1011A PRECAST REINFORCED CONCRETE MANHOLE



4 DETAIL
C9.01 GDOT 1125 CONCRETE HEADWALL

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PHONE: 404-637-0500

CITY OF BROOKHAVEN
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GEORGIA

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REVIEWER STAMP

NO.	DATE	BY	DESCRIPTION

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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**STORMWATER
CONSTRUCTION DETAILS**

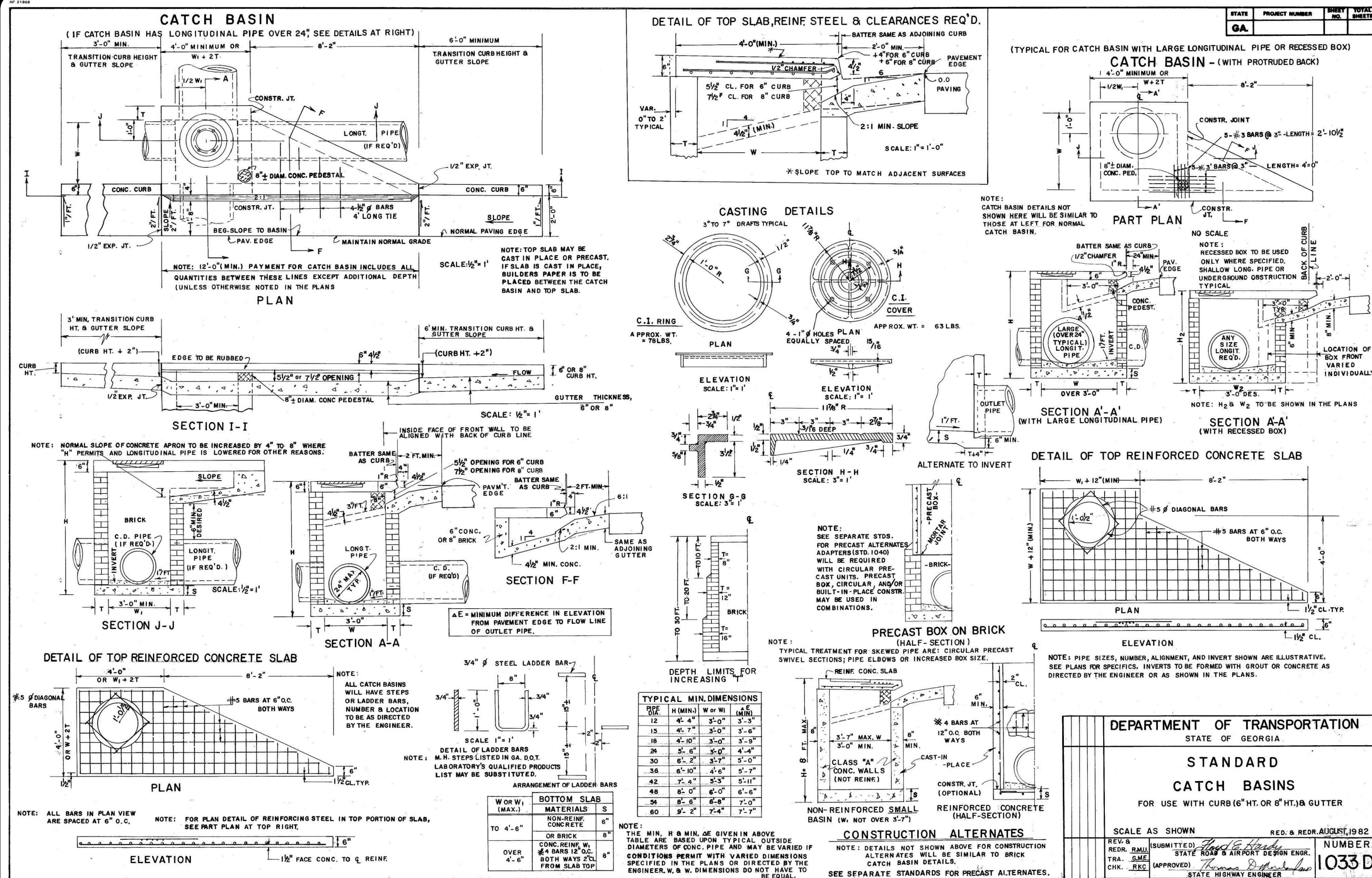
SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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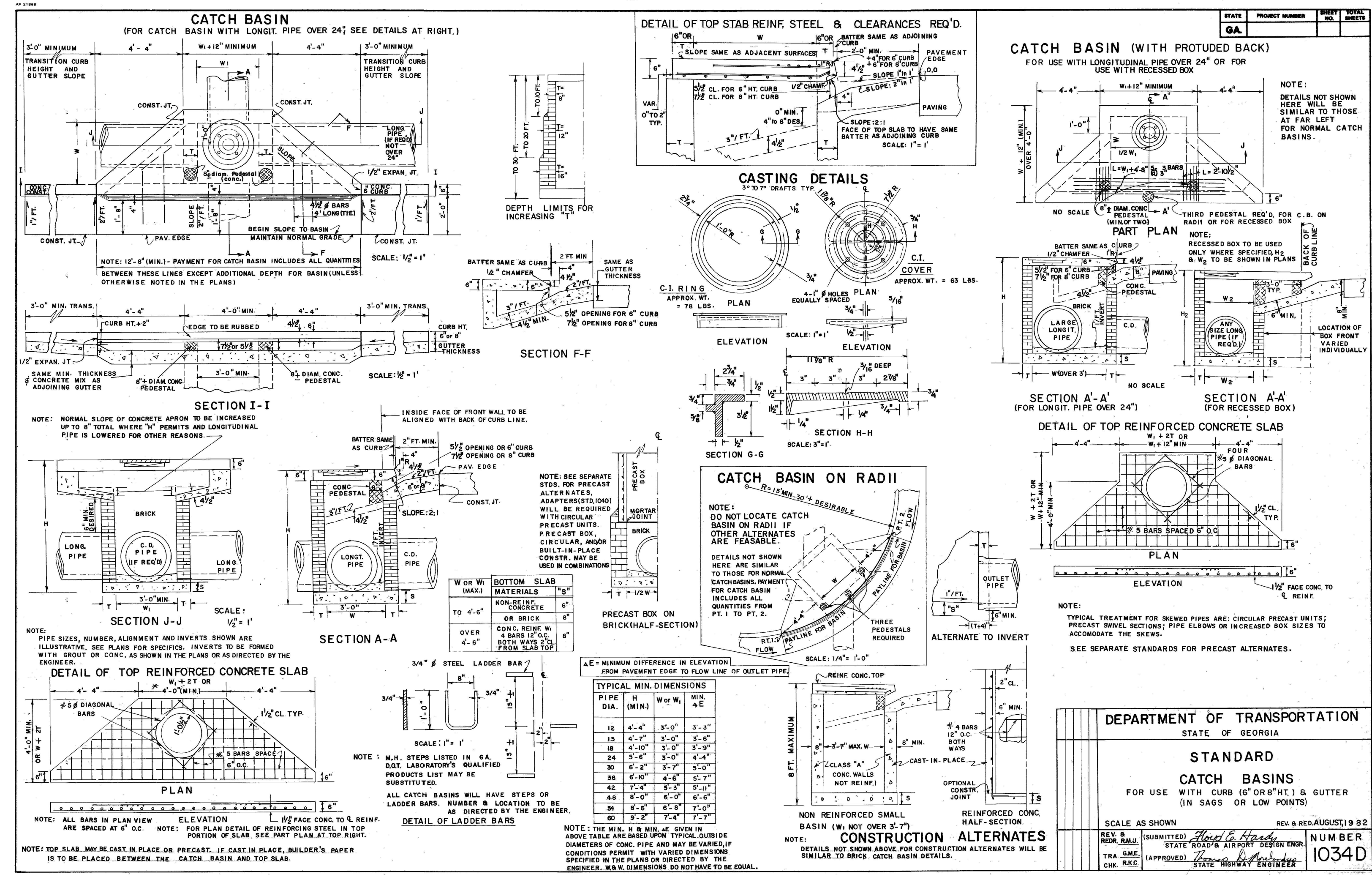
REGISTERED PROFESSIONAL ENGINEER
WELM. M. SCHMIDT
No. 34200
10/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

C9.01
SHEET



5
C9.02
DETAIL
GDOT 1033D SINGLE-WING CATCH BASIN



6
C9.02
DETAIL
GDOT 1034D DOUBLE-WING CATCH BASIN

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BROOKHAVEN, GA 30319
PHONE: 404-637-0500

LAND LOT 243
18TH DISTRICT

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STORMWATER CONSTRUCTION DETAILS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

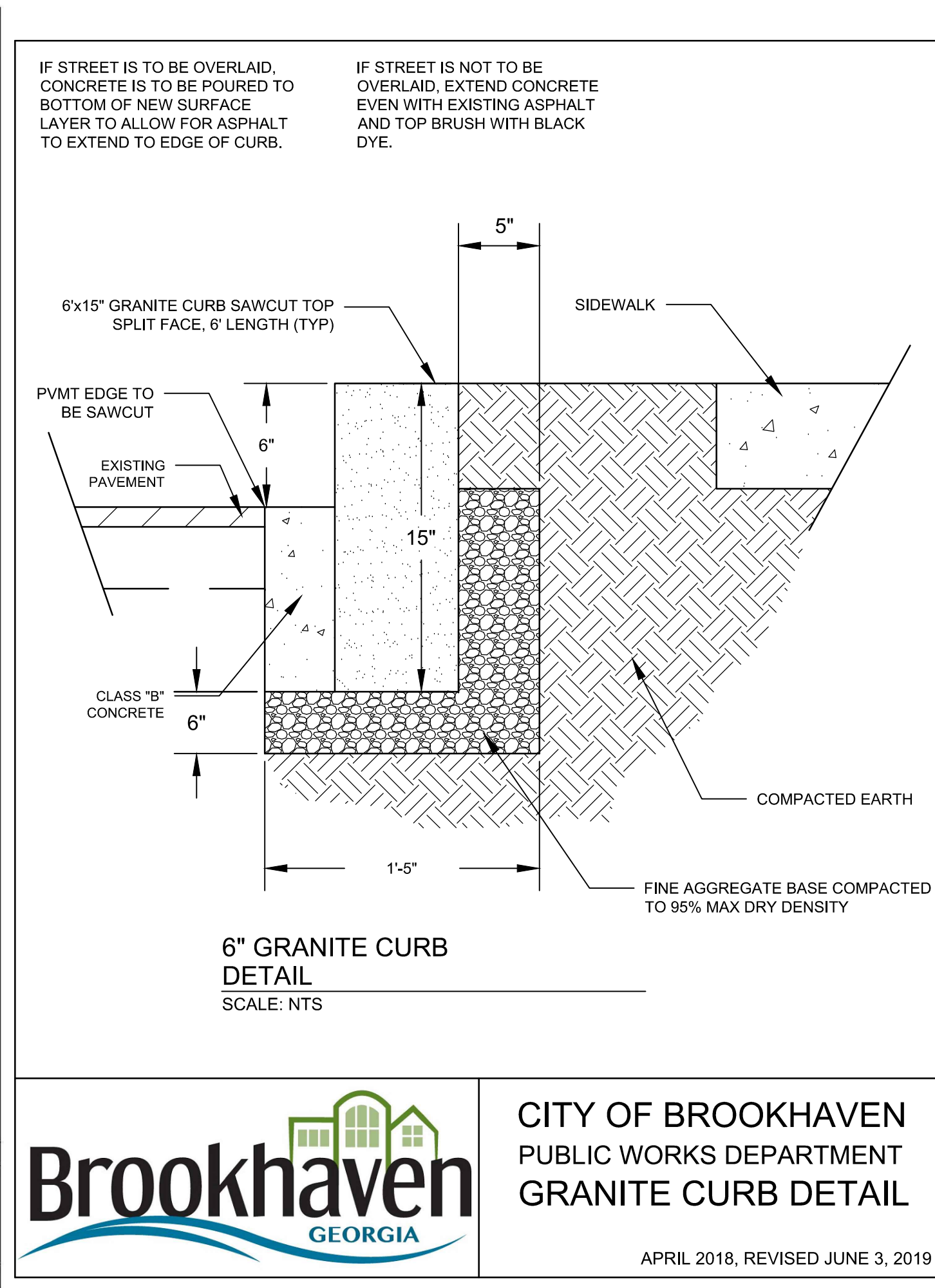
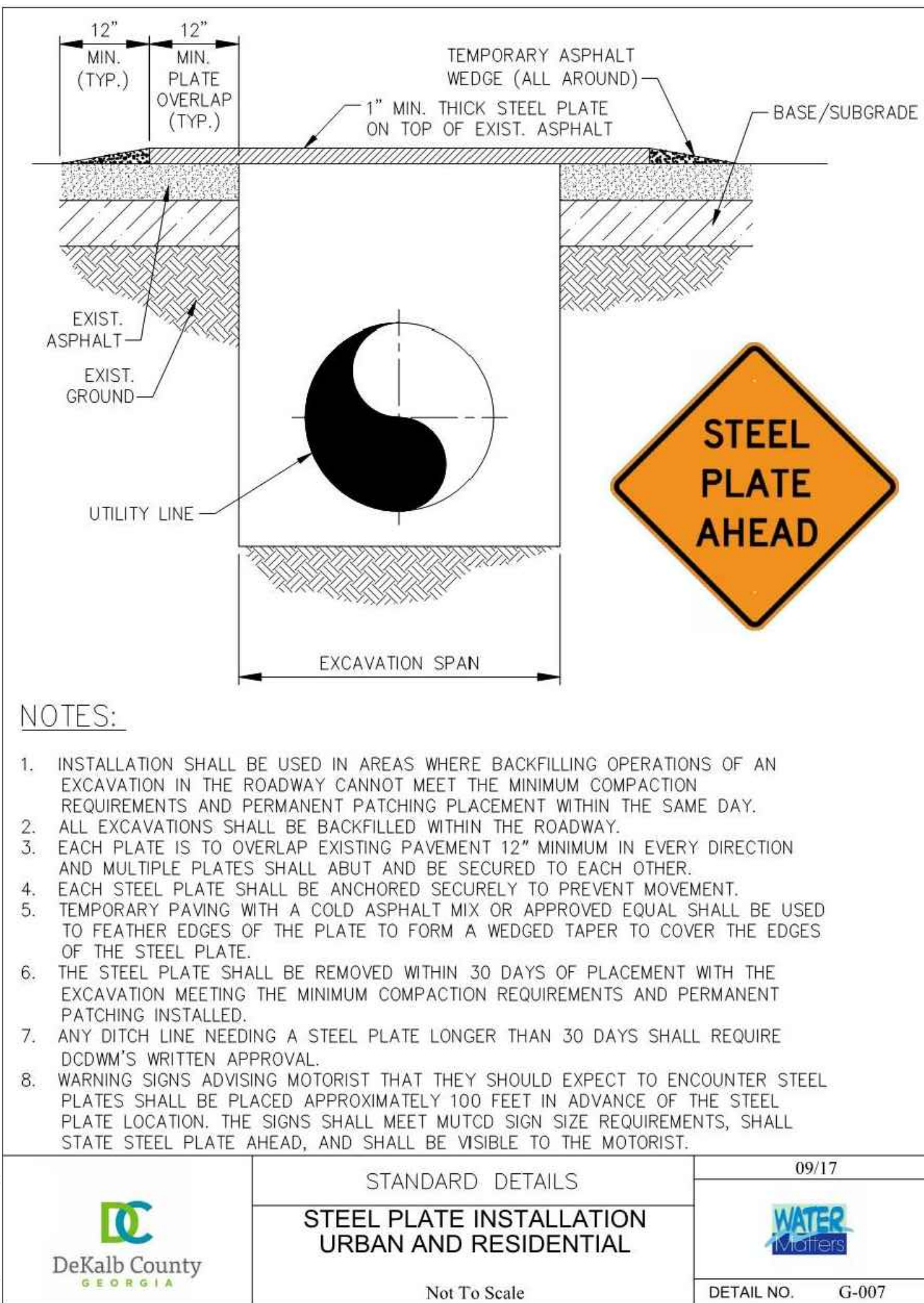
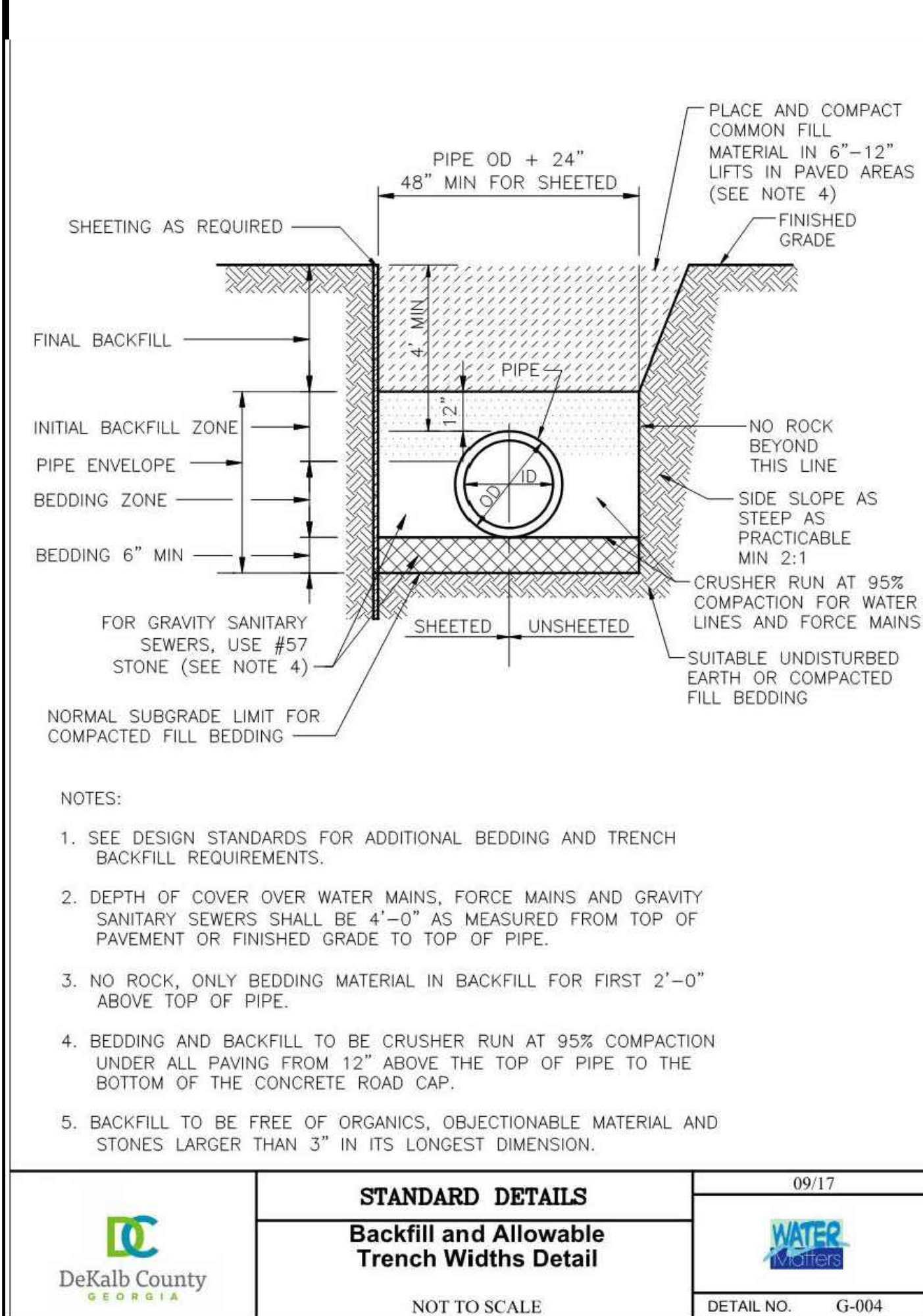
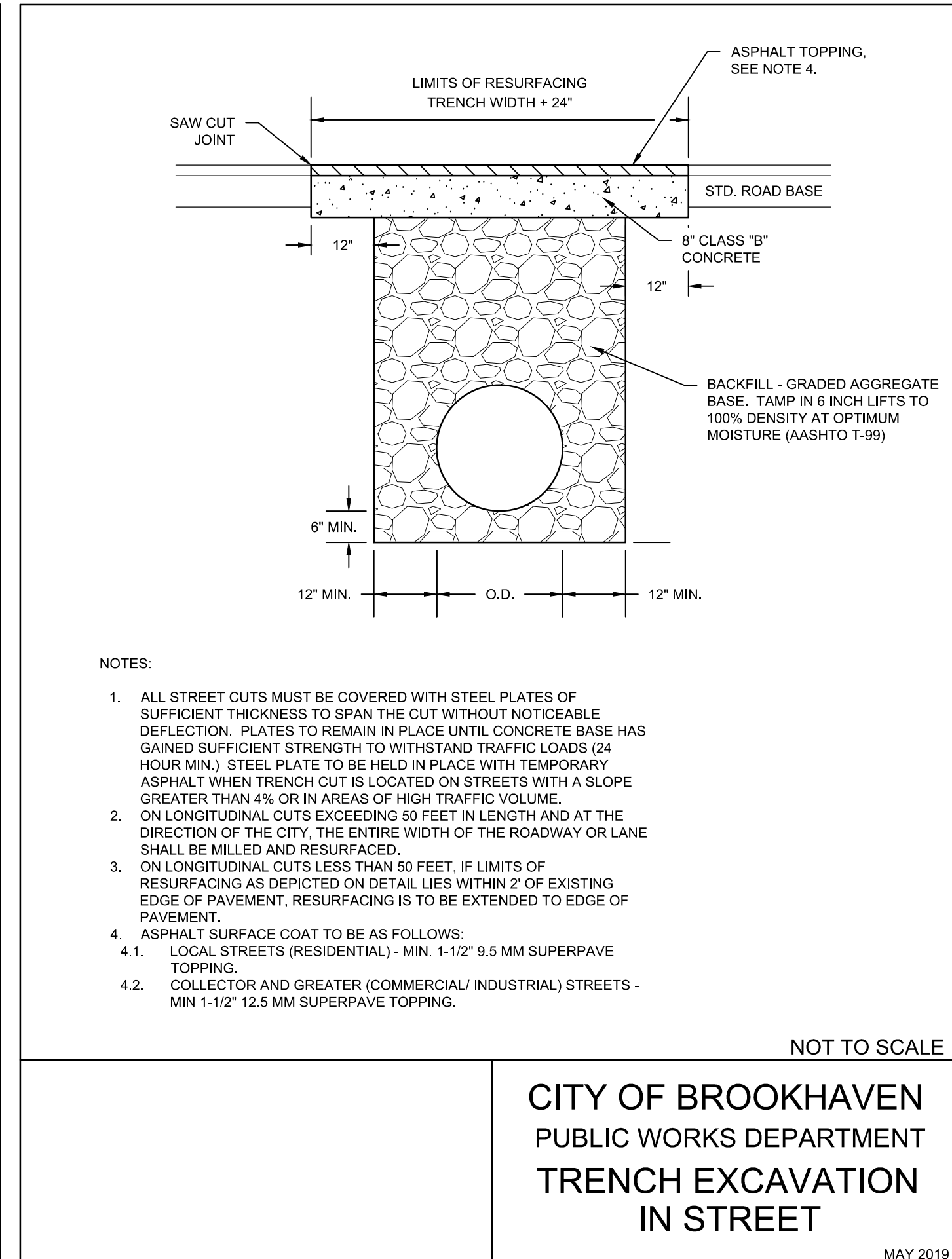
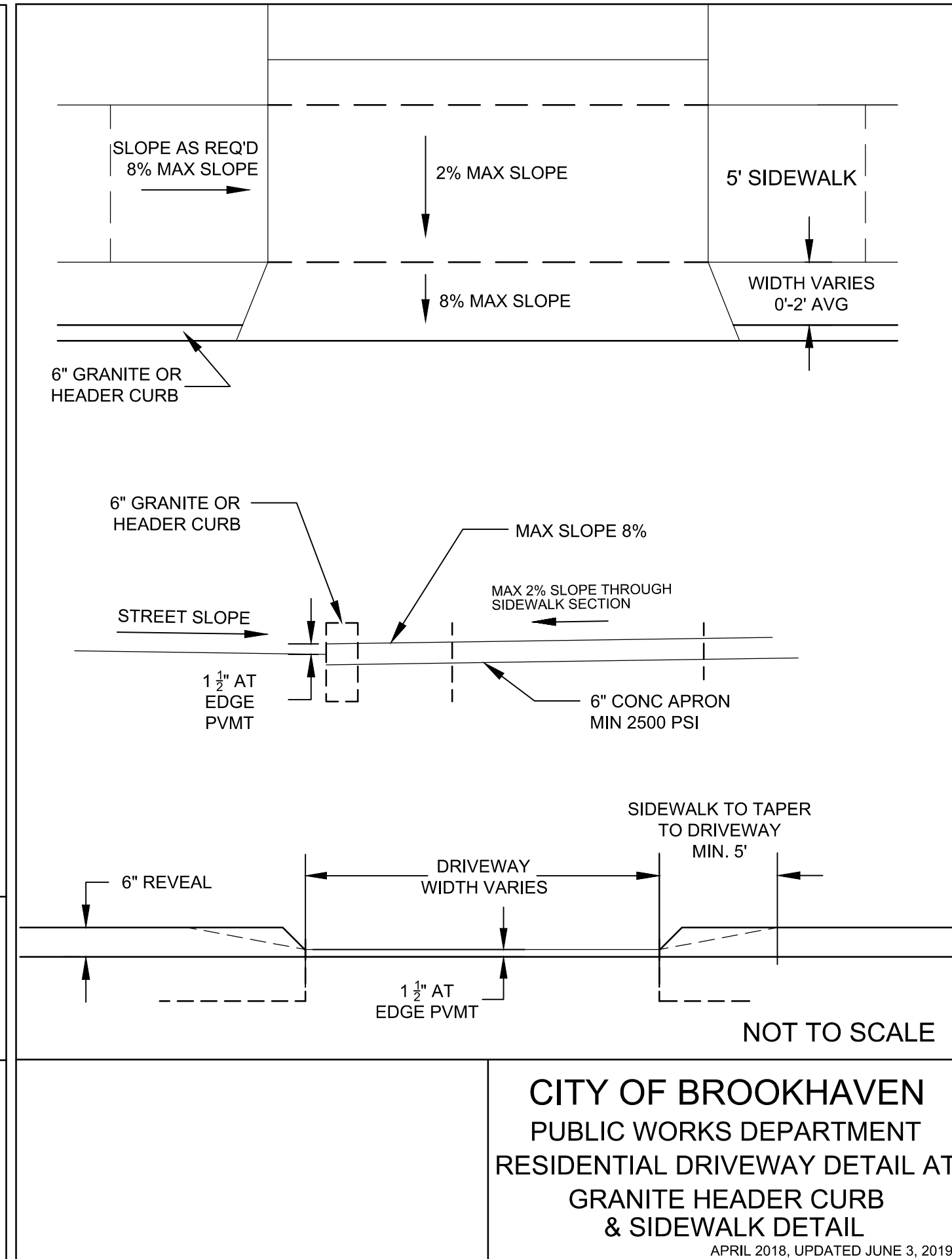
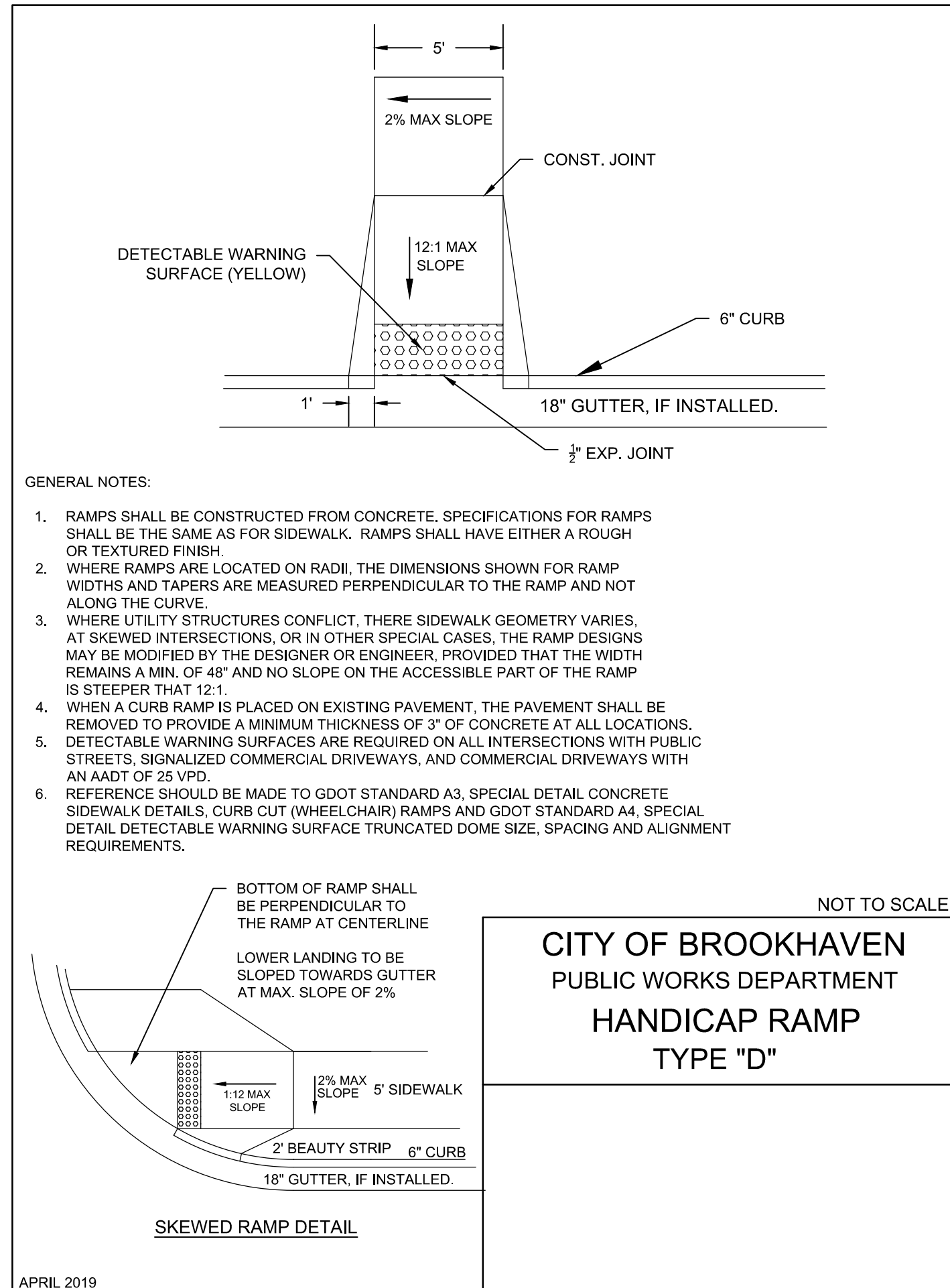
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1/10/2020
REGISTERED PROFESSIONAL ENGINEER
WILL M. SCHMIDT
No. 34200
10/10/2020

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD CATCH BASINS
FOR USE WITH CURBS (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN
REDESIGNED AUGUST, 1982
SUBMITTED BY: *[Signature]*
REDESIGNED BY: *[Signature]*
TRA. SMC (APPROVED) STATE HIGHWAY ENGINEER
CHK. BSK (APPROVED) STATE HIGHWAY ENGINEER
NUMBER 1034D

C9.02
SHEET



S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
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GEORGIA

LAND LOT 243
18TH DISTRICT

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**TRENCHING, PAVEMENT
& CURB CONSTRUCTION
DETAILS**

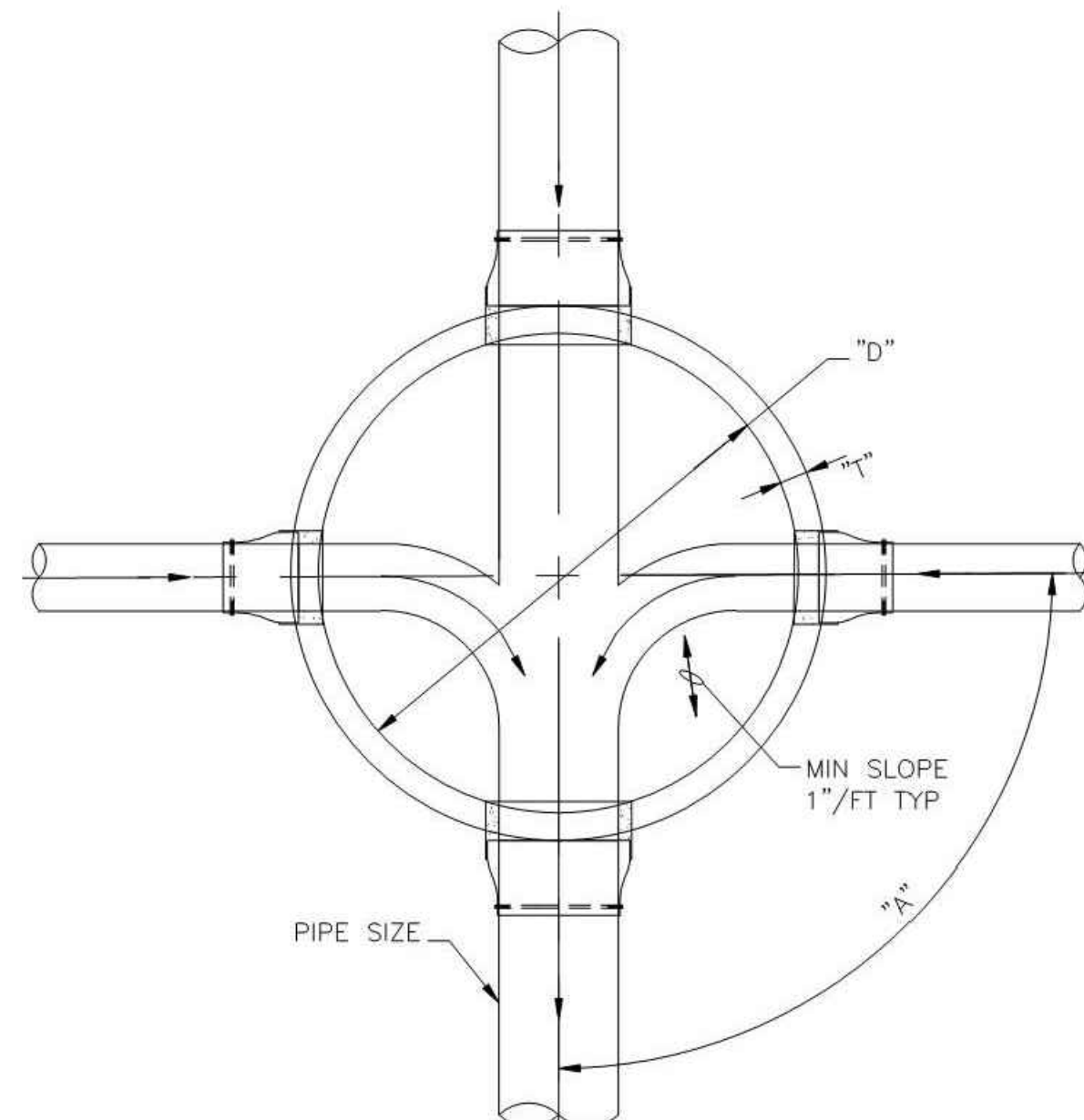
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DATE: 06/12/2019
PROJECT: 19051.00

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REGISTERED PROFESSIONAL ENGINEER
MEL M. SCHMIDT
No. 34239
10/11/2020

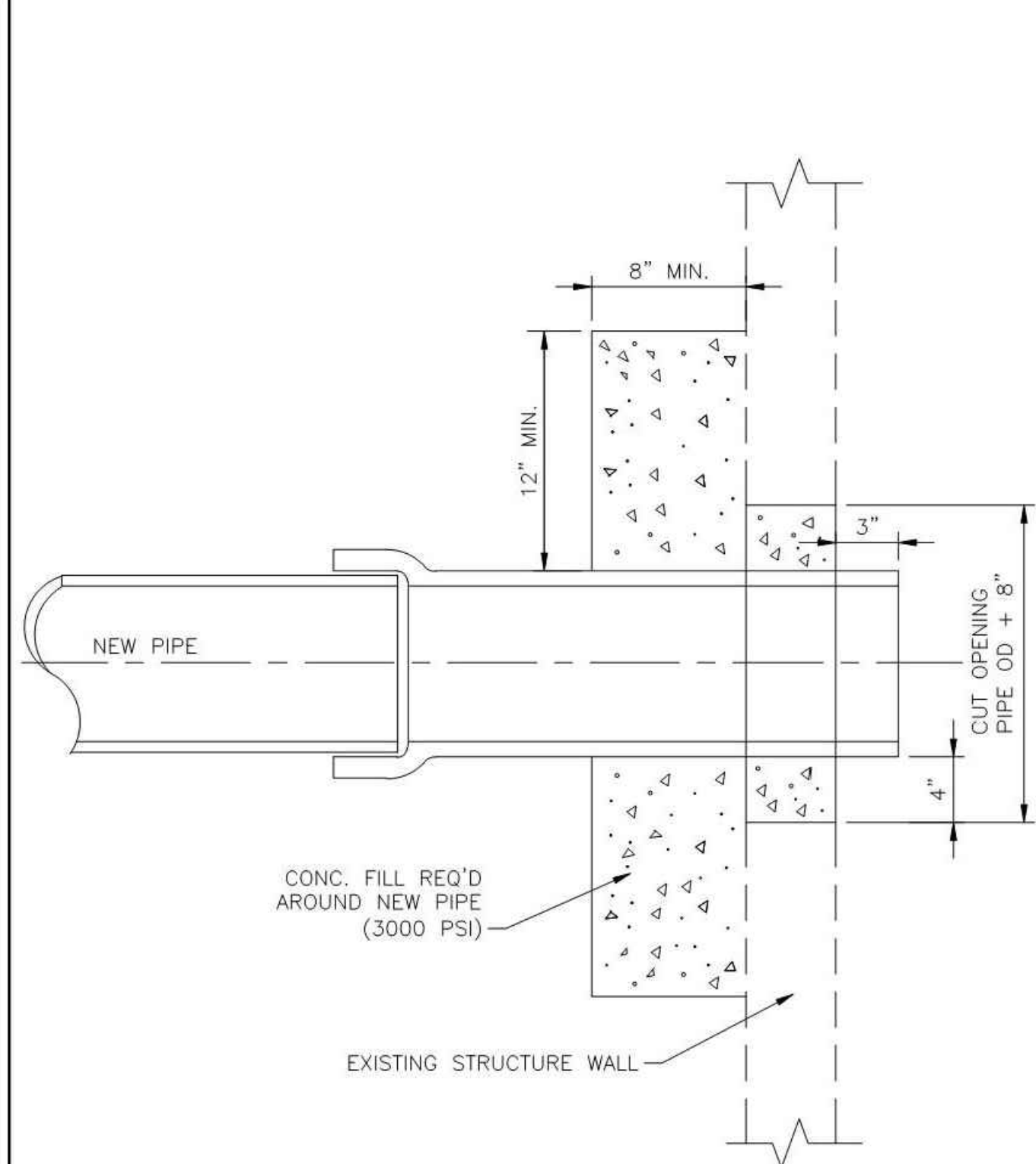
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CERTIFICATION # 0000067548 EXP. 12/21/2021

C9.03
SHEET

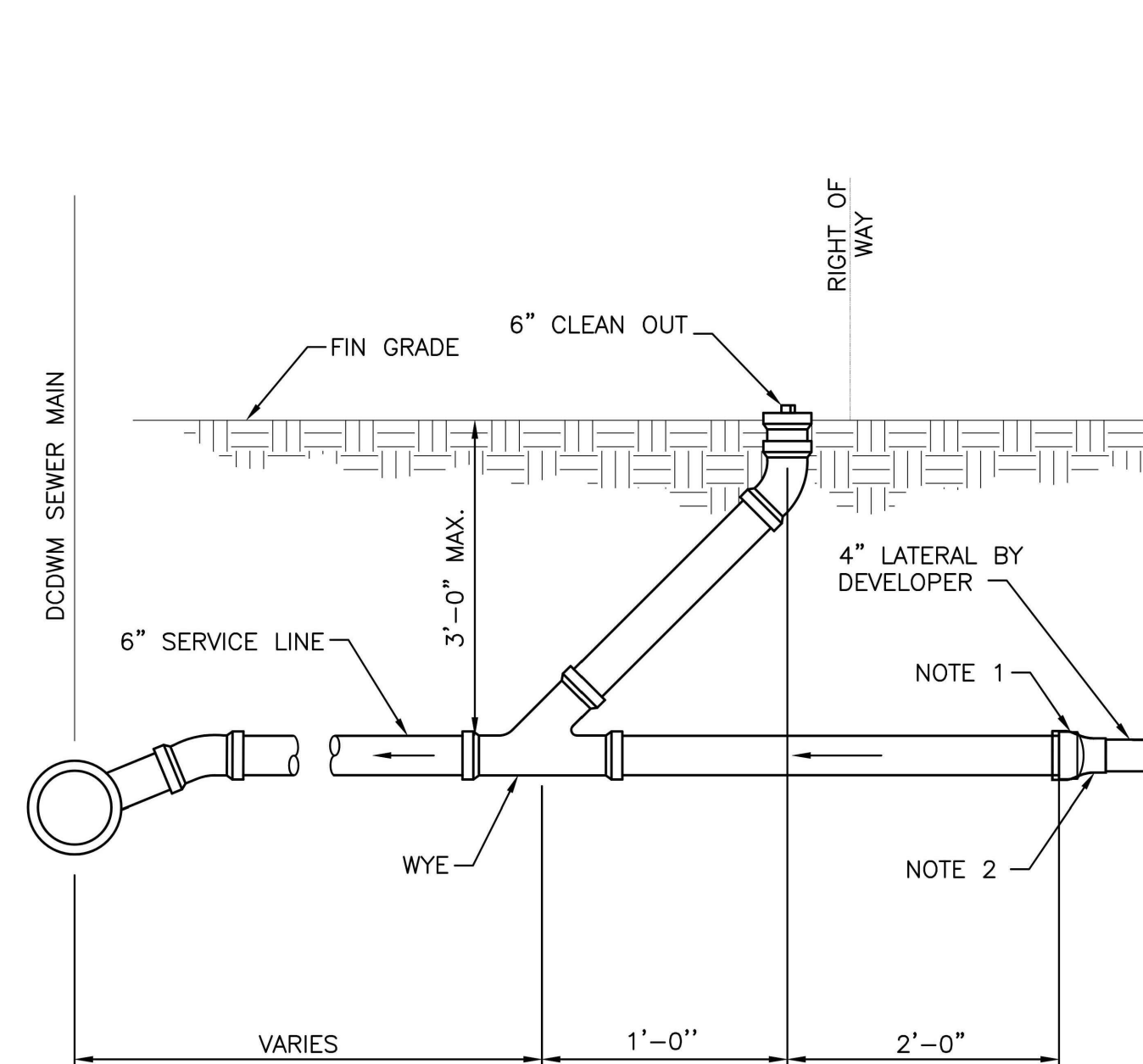


PIPE SIZE	"A"	"D"	"T"
6" & 15"	0' - 90"	4' - 0"	5"
18"	0' - 60"	4' - 0"	5"
18"	60' - 90"	5' - 0"	6"
21" & 24"	0' - 60"	5' - 0"	6"
21" & 24"	60' - 90"	6' - 0"	7"

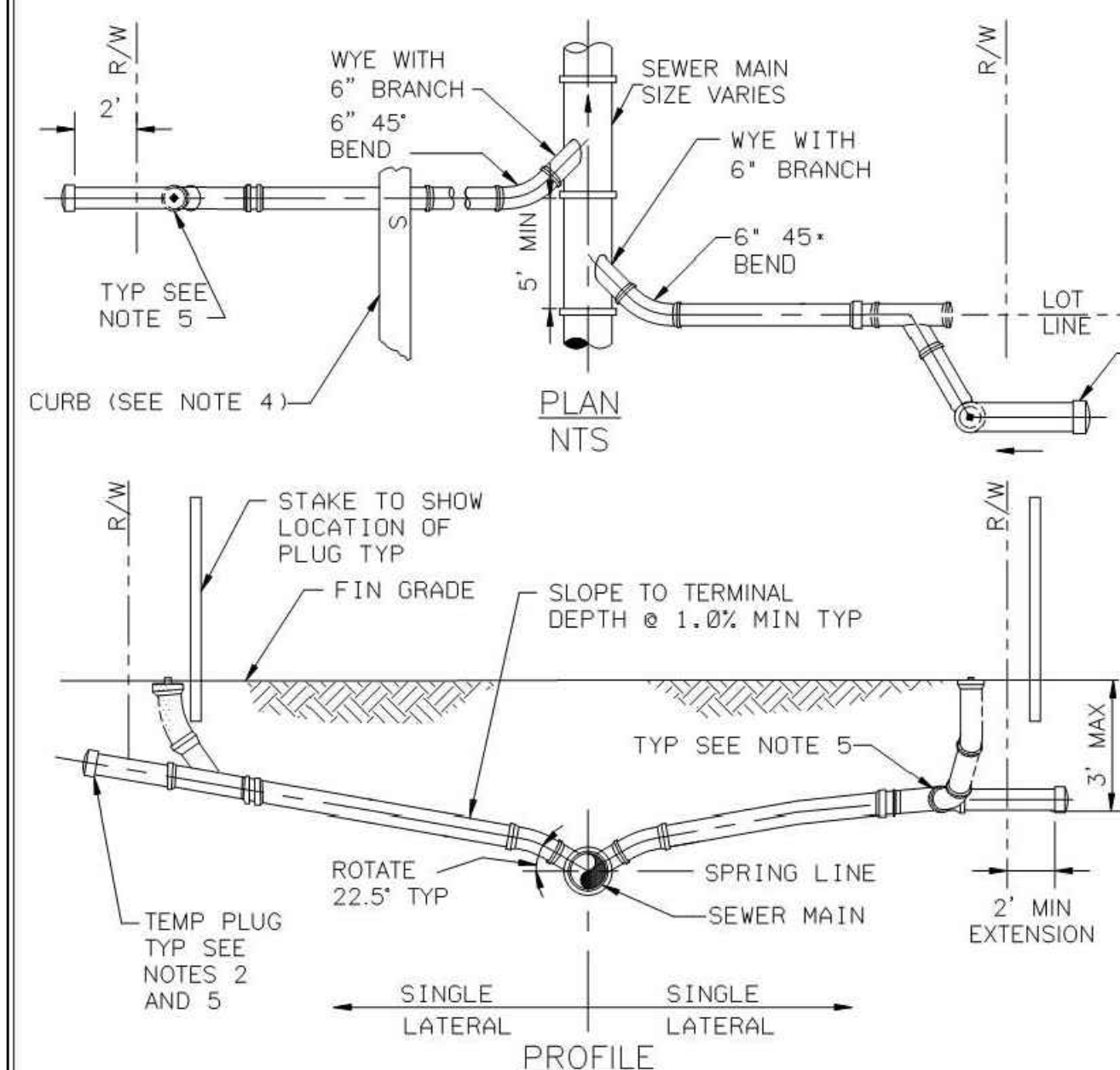
NOTE:
1. MINIMUM CENTERLINE RADIUS OF MANHOLE INVERT = 1.5 x PIPE DIAMETER



NOTE:
1. PLUG 6" SERVICE LINE.
2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS.
3. LATERALS UNDER PAVEMENT SHALL HAVE MINIMUM DEPTH OF FOUR (4) FEET.



NOTES:
1. PLUG 6" SERVICE LINE.
2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS.
3. LATERALS UNDER PAVEMENT SHALL HAVE MINIMUM DEPTH OF FOUR (4) FEET.



NOTES:
1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. SERVICE LATERAL SHALL BE CAPPED BY DEVELOPER'S CONTRACTOR.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY CUTTING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL.
5. DEVELOPER'S CONTRACTOR SHALL INSTALL CLEANOUT.

STANDARD DETAILS
Invert Plan
NOT TO SCALE

09/17
DeKalb County
DETAIL NO. S-010

STANDARD DETAILS
New Line Connection to an Existing Structure
NOT TO SCALE

09/17
DeKalb County
DETAIL NO. S-011

STANDARD DETAILS
Typical Service Line and Clean Out Detail
NOT TO SCALE

02/19
DeKalb County
DETAIL NO. S-012

STANDARD DETAILS
SANITARY SEWER LATERAL CONNECTION
NOT-TO-SCALE

09/17
DeKalb County
DETAIL NO. S-017

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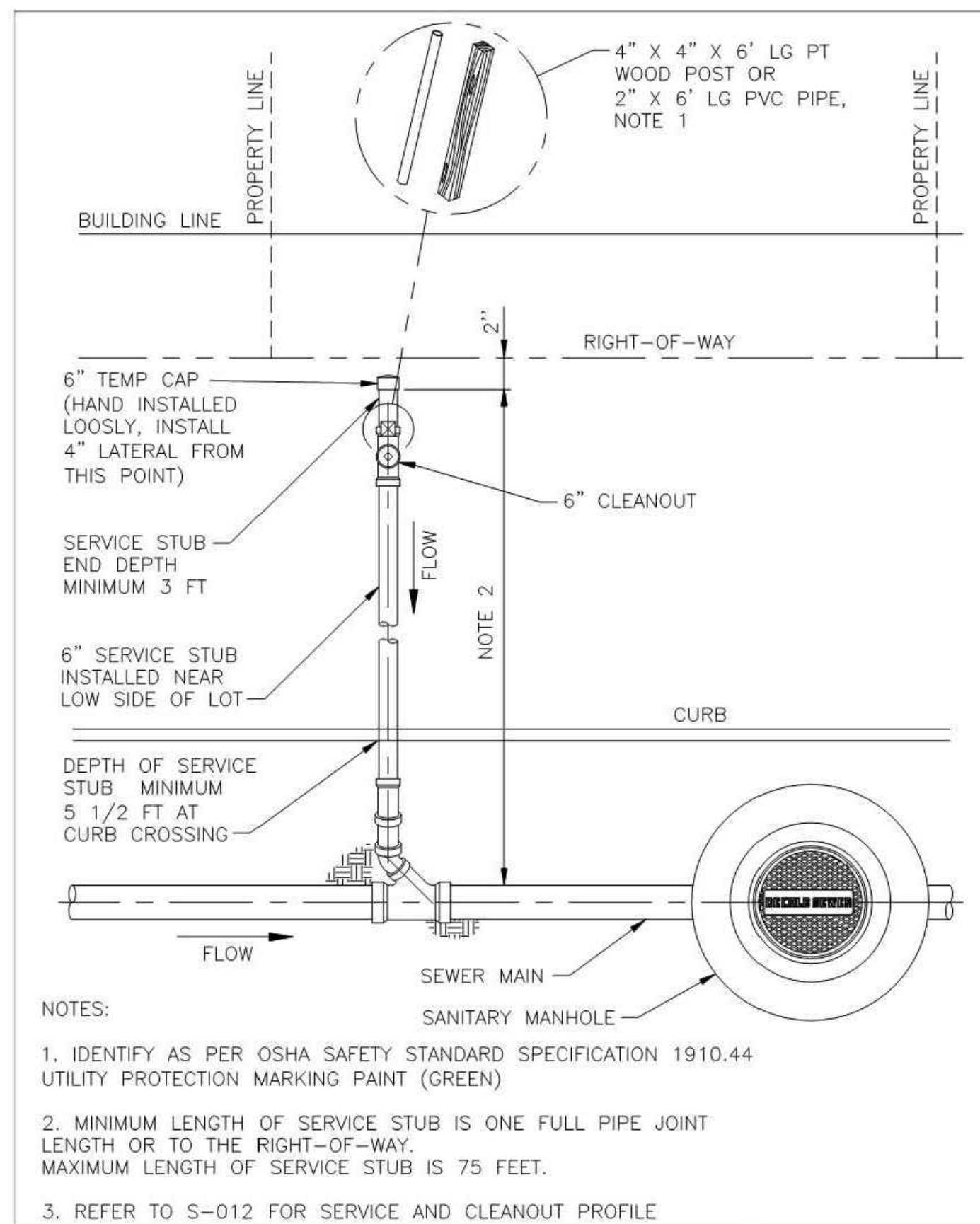
CITY OF BROOKHAVEN
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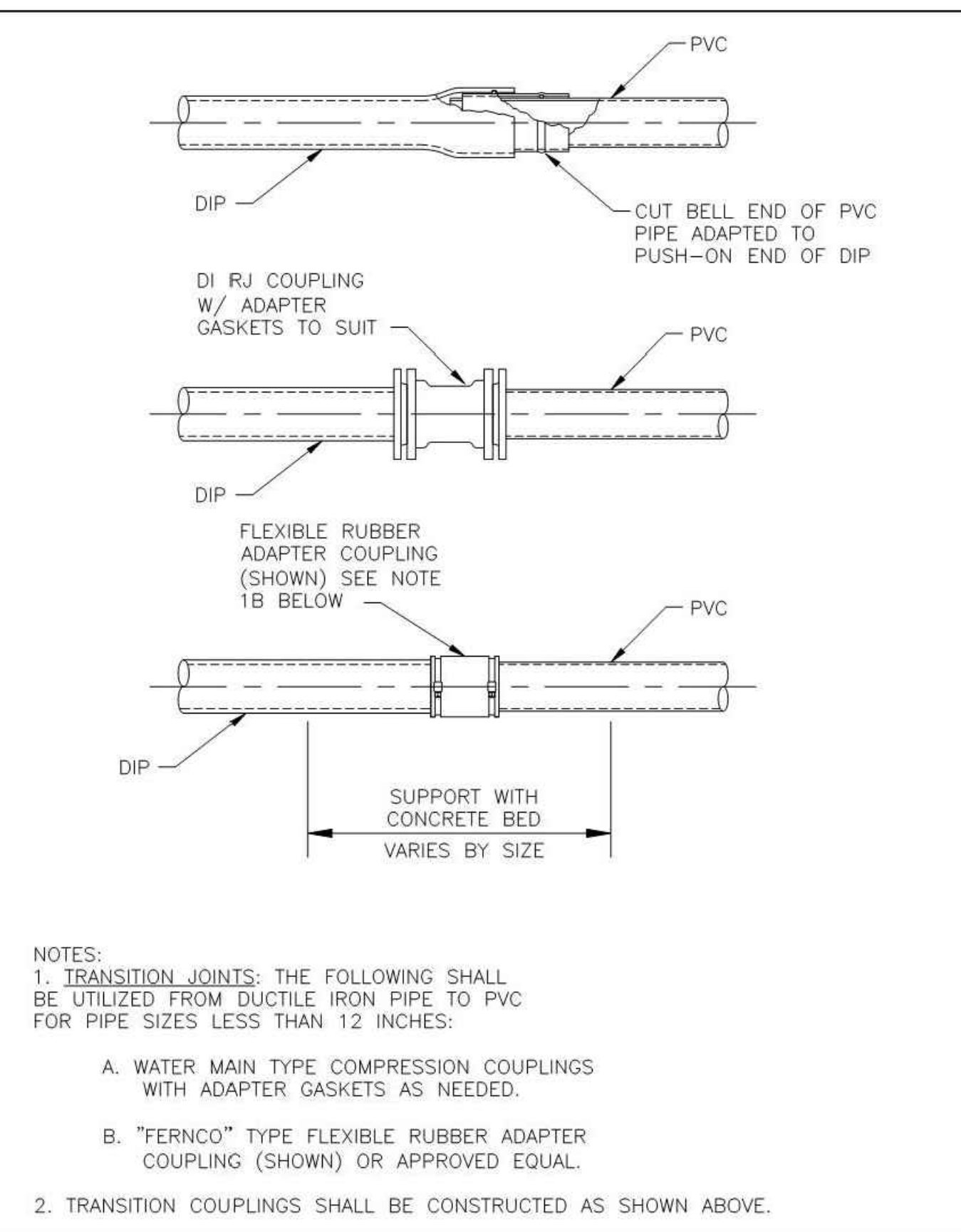
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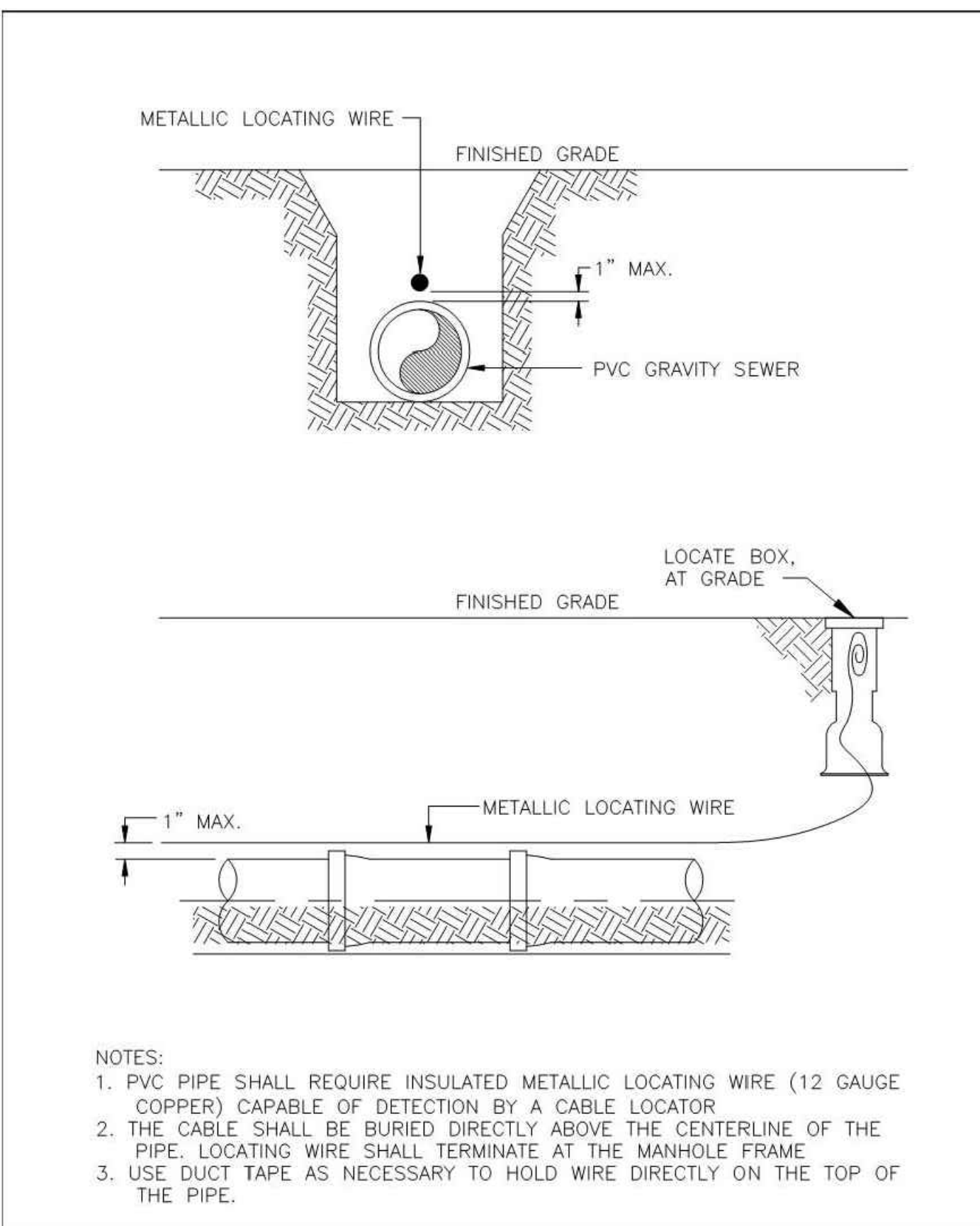
STANDARD DETAILS
Service Stub Location Detail
NOT TO SCALE

09/17
DeKalb County
DETAIL NO. S-018



STANDARD DETAILS
Transition Coupling Detail
NOT TO SCALE

09/17
DeKalb County
DETAIL NO. S-020



STANDARD DETAILS
Tracer Wire Detail For PVC
NOT TO SCALE

09/17
DeKalb County
DETAIL NO. S-023

REVIEWER STAMP

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**DEKALB COUNTY
SANITARY SEWER
DETAILS**

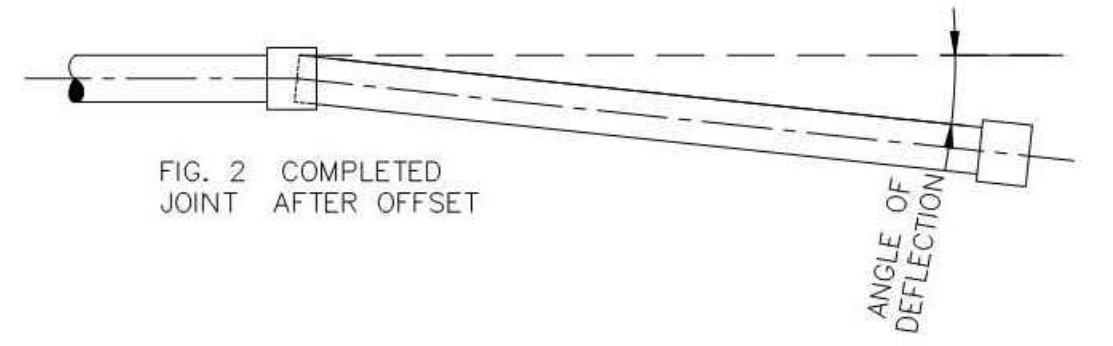
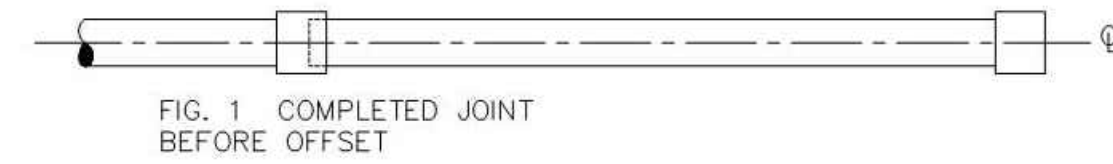
SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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REGISTERED PROFESSIONAL ENGINEER
No. 34239
W. M. SCHMIDT
10/10/2020

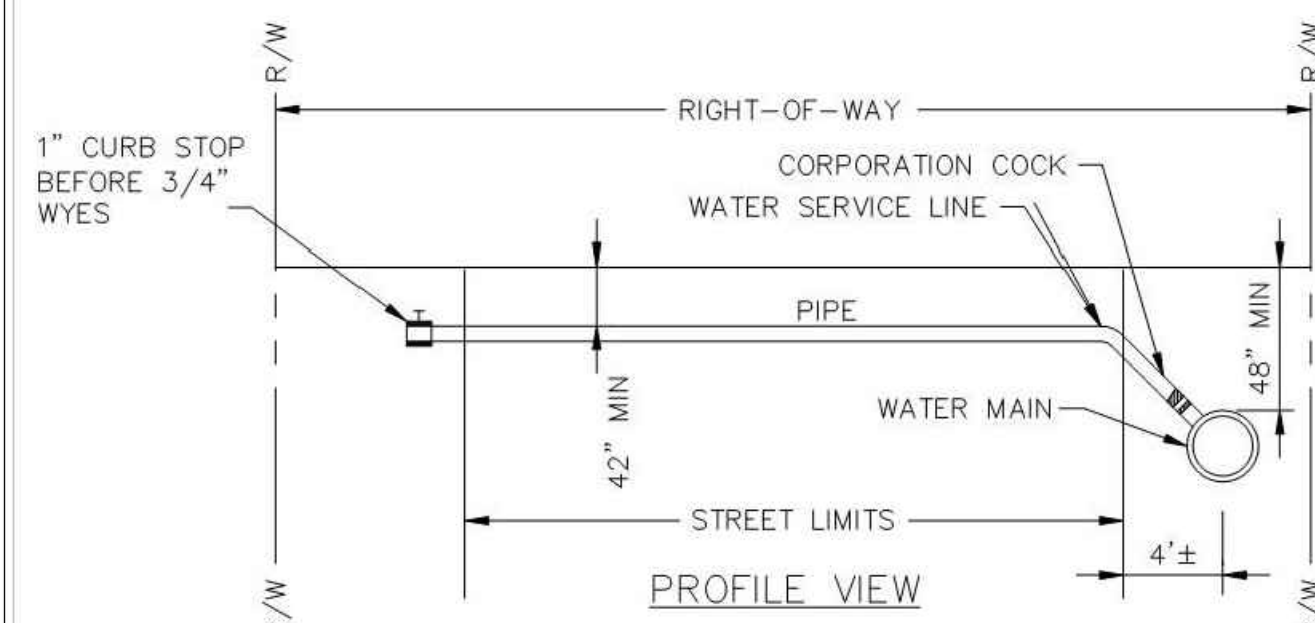
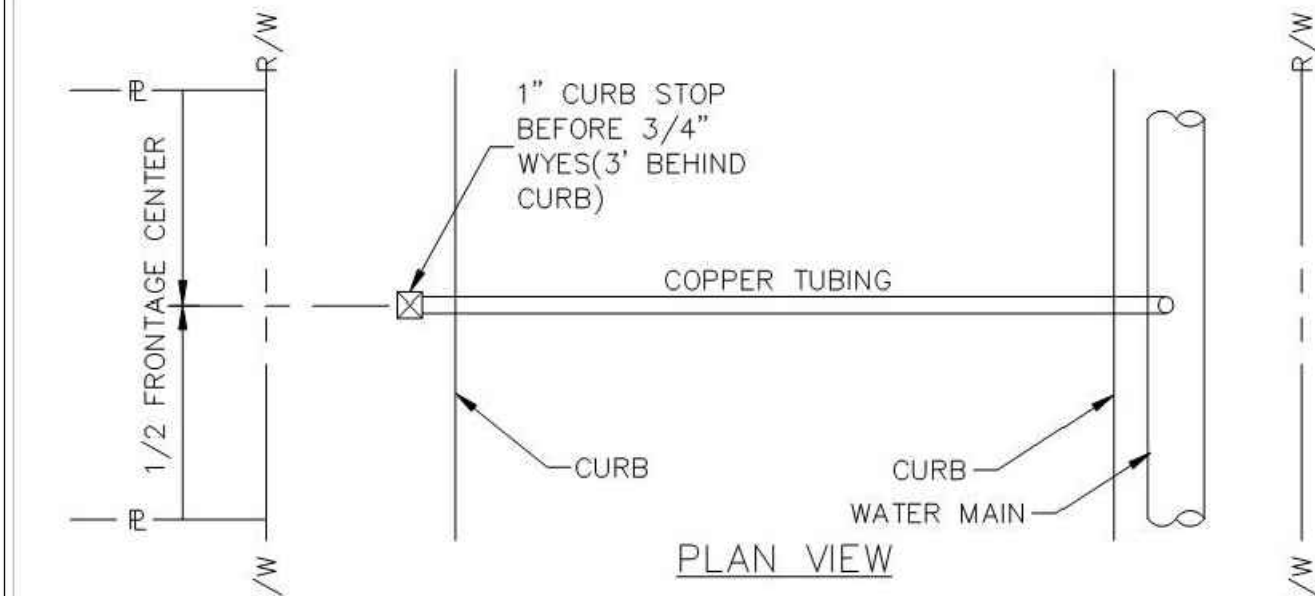
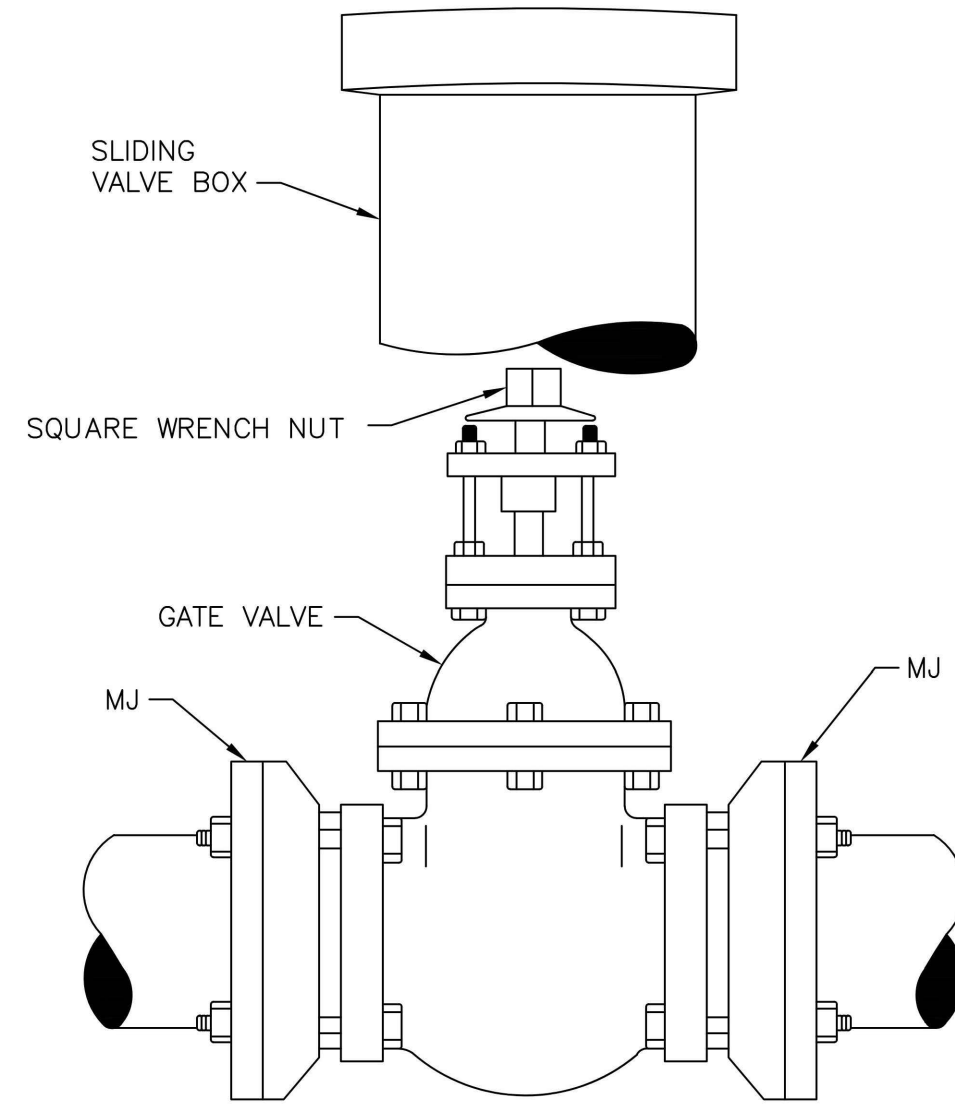
GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

C9.04
SHEET



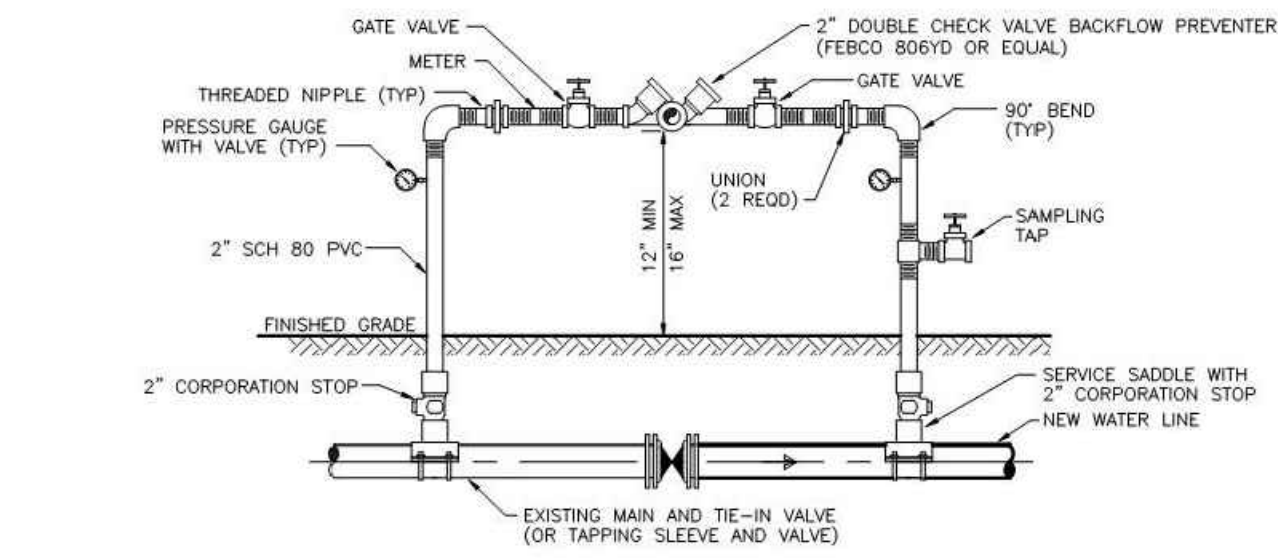
NOTES:

1. ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.
2. ALL DEFLECTION ANGLES SHALL BE LESS THAN THE PIPE MANUFACTURERS MAXIMUM.



NOTES:

1. SERVICE LINES 1 INCH AND SMALLER SHALL BE INSTALLED USING COPPER TUBING WITH FLARE X MIPT.
2. LARGER SERVICE LINE MATERIAL SHALL BE AS SPECIFIED ON THE DRAWING, AND REQUIRES COUNTY APPROVAL.



NOTES:

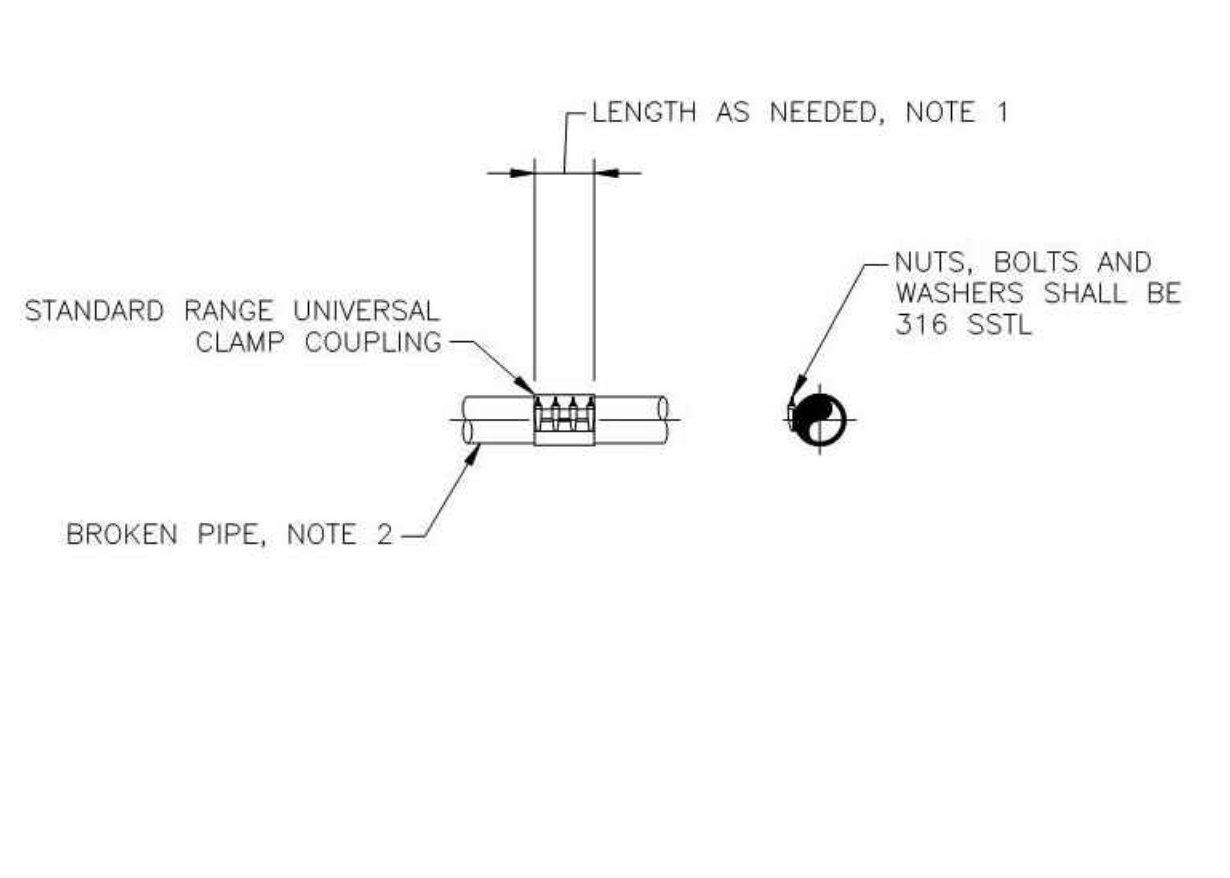
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED WATER MAINS.
2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY), AND FOR BACTERIOLOGICAL SAMPLING POINTS AT THE ENDS OF THE PROPOSED MAINS. THE JUMPER CONNECTIONS SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE PROPOSED MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE DCDWM HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE PROPOSED MAINS AFTER DISINFECTION AND UNTIL THE CLEARANCE LETTER IS OBTAINED.
3. FLUSHING OF THE 10" DIAMETER AND LARGER WATER MAIN MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS, AS FOLLOWS:
 - A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF DCDWM AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN VALVES WHICH ARE NOT WATER TIGHT SHALL BE REPLACED.
 - B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW MAIN AND FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE DCDWM PERMIT.
 - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAINS.
 - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
 - MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
 - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
 - C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED UNTIL FLUSHING BEGINS.
 - D. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE DCDWM.
 - E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION.
4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.
5. EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY ALL PERTINENT AGENCIES.
6. UPON RECEIPT OF CLEARANCE FOR USE FROM DCDWM, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

STANDARD DETAILS
Maximum Allowable Offsets and Deflections
NOT TO SCALE
09/17
W-005

STANDARD DETAILS
Typical Gate Valve Installation For 16-Inches and Below
NOT TO SCALE
02/19
W-007

STANDARD DETAILS
Typical Service Line Installation
NOT TO SCALE
09/17
W-008

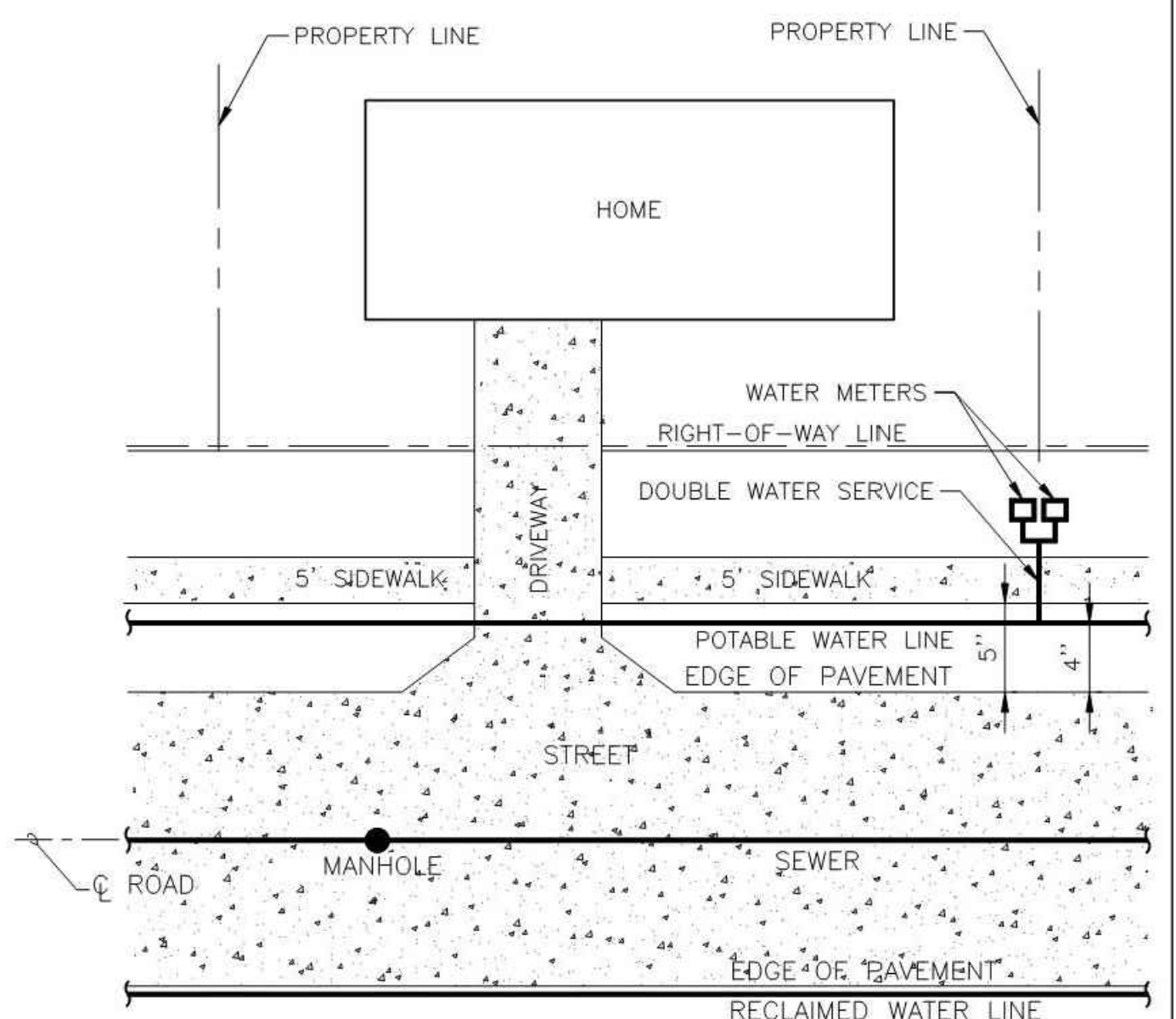
STANDARD DETAILS
Temporary Disinfection Jumper Installation Detail
NOT TO SCALE
09/17
W-015



NOTES:

1. LENGTHS AS AVAILABLE FROM SPECIFIC MANUFACTURERS VARY AND MAY RANGE FROM 6 INCHES TO 30 INCHES.
2. UNIVERSAL CLAMP COUPLINGS ARE FOR THE REPAIR OF ASBESTOS-CEMENT, CAST IRON, DUCTILE IRON, STEEL AND PVC PIPE.
3. PRESSURE RANGES GENERALLY VARY FROM 150 PSI TO OVER 500 PSI DEPENDING ON FITTING LENGTH AND APPLICATION. SEE SPECIFIC MANUFACTURERS FOR SPECIFIC PRESSURE RATINGS.

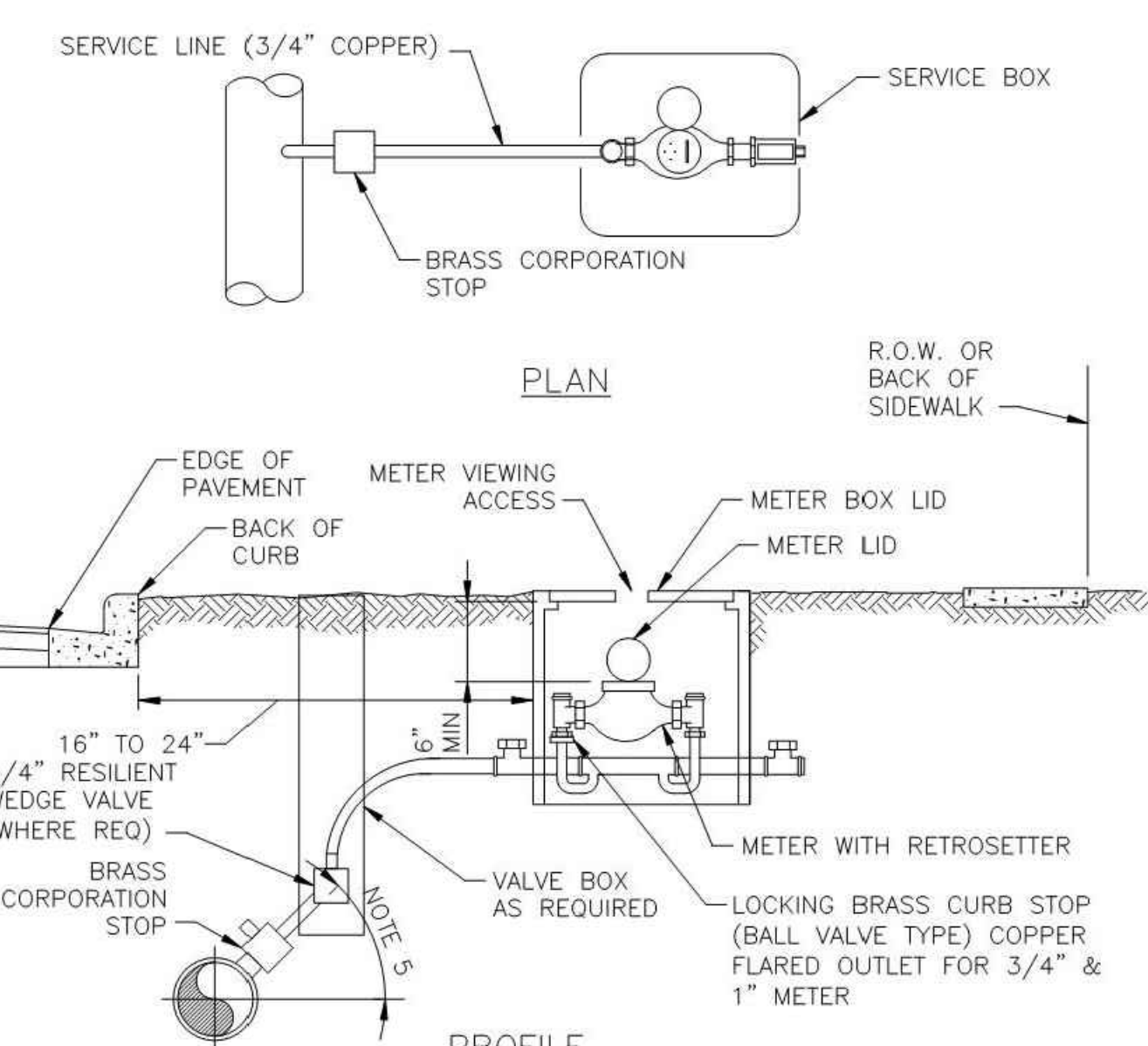
STANDARD DETAILS
Repair Sleeve Detail
NOT TO SCALE
09/17
W-018



NOTE:

1. A 3' BY 3' AREA OF "GREEN SPACE" SHALL BE ALLOTTED PER EACH WATER METER. METERS SHALL NOT BE LOCATED WITHIN PAVED AREAS.

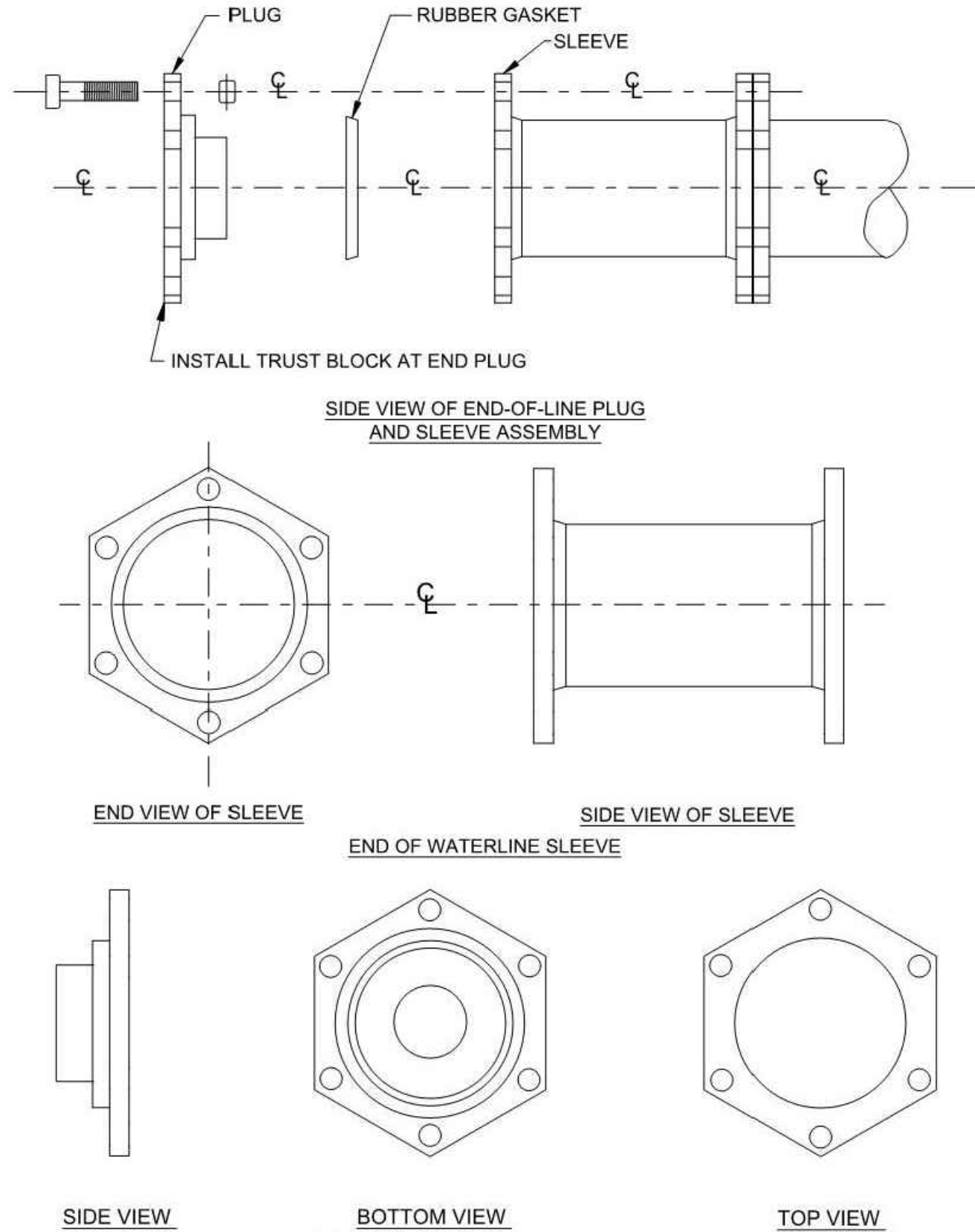
STANDARD DETAILS
Water Meter Locations Detail
NOT TO SCALE
09/17
W-020



NOTES:

1. METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB AND IN NO CASE SHALL IT BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.
2. ALL POTABLE WATER IRRIGATION METERS REQUIRE AN APPROVED BACKFLOW PREVENTER.
3. ALL PROPERTIES WITH ALTERNATIVE WATER SYSTEMS (WELL, ETC.) REQUIRE BACKFLOW PREVENTERS.
4. SERVICE LINES SHALL NOT BE LESS THAN METER SIZE.
5. SERVICE TAP SHALL BE BETWEEN 10:00 O'CLOCK AND 2:00 O'CLOCK WITHOUT SADDLE TAP.

STANDARD DETAILS
Residential Water Meter Installation Detail
NOT TO SCALE
09/17
W-021



STANDARD DETAILS
End of Waterline Plug & Sleeve Assembly
NOT TO SCALE
09/17
W-024

S. BAMBY DRAINAGE IMPROVEMENTS - PH III & IV
A MASTER PLANNED RESIDENTIAL DEVELOPMENT
FOR
CITY OF BROOKHAVEN
4362 PEACHTREE RD
BROOKHAVEN, GA 30319
PHONE: 404-637-0500

CITY OF BROOKHAVEN
DEKALB COUNTY
GEORGIA

LAND LOT 2-3
18TH DISTRICT

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REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

REVIEWER STAMP

BROOKHAVEN PRJ#: 19-00049
DEKALB AP#: 3045859

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DEKALB COUNTY
WATER DETAILS

SCALE: N/A
DATE: 06/12/2019
PROJECT: 19051.00

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01/10/2020

GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION # 0000067548 EXP. 12/21/2021

C9.05
SHEET

FITTING Ø	B (IN)	H (FT)	C (FT)	VOL (YD ³)
11-1/4	6	0.9	0.8	0.010
	8	1.2	1.1	0.022
	10	1.5	1.3	0.041
	12	1.8	1.6	0.071
	16	2.3	2.2	0.149
22-1/2	6	1.3	1.1	0.023
	8	1.6	1.6	0.048
	10	2.1	1.9	0.097
	12	2.5	2.3	0.165
	16	3.3	3.0	0.362
45	6	1.7	1.6	0.050
	8	2.2	2.2	0.113
	10	2.8	2.7	0.222
	12	3.3	3.3	0.375
	16	4.5	4.3	0.887
90	6	2.3	2.2	0.073
	8	3.1	2.9	0.278
	10	3.8	3.7	0.530
	12	4.6	4.4	0.921
	16	6.1	5.9	2.142
TEES	6	2.6	2.5	0.170
	8	3.2	3.1	0.319
	12	3.9	3.7	0.565
	16	5.1	5.0	1.303

NOTES:
 1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
 2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
 3. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
 Blocking Detail Horizontal Thrust Water and Foremain
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. G-001

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
11-1/4	6	1.0	0.3	0.008
	8	1.2	0.4	0.012
	10	1.5	0.6	0.026
	12	1.9	0.8	0.055
	16	2.4	1.0	0.110
22-1/2	6	1.3	0.5	0.017
	8	1.7	0.7	0.039
	10	2.1	0.9	0.075
	12	2.5	1.1	0.129
	16	3.2	1.6	0.308
45	6	1.7	0.7	0.039
	8	2.2	0.9	0.083
	10	2.7	1.2	0.164
	12	3.3	1.5	0.305
	16	4.3	2.0	0.688

NOTES:
 1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
 2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
 3. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
 Blocking Detail Downward Thrust
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. G-002

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
11-1/4	6	3.0	2.2	0.4
	8	3.5	2.4	0.6
	10	4.0	3.2	1.0
	12	4.5	3.5	1.4
	16	5.0	4.8	2.4
22-1/2	6	3.5	2.9	0.7
	8	4.0	3.9	1.2
	10	4.5	4.6	1.9
	12	5.5	4.8	2.7
	16	6.5	5.9	4.8
45	6	4.5	3.4	1.3
	8	5.0	4.6	2.2
	10	6.0	5.1	3.5
	12	6.5	6.2	5.0
	16	8.0	7.3	8.8

NOTES:
 1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
 2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
 3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
 4. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
 Blocking Detail Upward Thrust
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. G-003

UNIMPROVED CONDITION
 IMPROVED CONDITION

NOTES:
 1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 16" AND LARGER, OR AS REQUIRED BY DCDWM.
 2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18" X 18" X 6" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED.

STANDARD DETAILS
 Valve Cover and Marker Disc
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. W-023

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 A MASTER PLANNED RESIDENTIAL DEVELOPMENT
 FOR
 CITY OF BROOKHAVEN
 4362 PEACHTREE RD
 BROOKHAVEN, GA 30319
 PHONE: 404-637-0500

LAND LOT 2-3
 18TH DISTRICT

PLANNERS AND ENGINEERS COLLABORATIVE
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REVISIONS:

NO.	DATE	BY	DESCRIPTION
2	11-18-19	MS	CITY COMMENTS
3	01-10-20	MS	CITY COMMENTS

CARRIER PIPE AND CASING PIPE SIZES (MIN.)										
CARRIER PIPE NOM. DIA. (D1)	2	4	6	8	10	12	14	16	20	24
CASING PIPE NOM. DIA. (D2)	6	14	16	18	20	22	24	30	32	36
WALL THICKNESS (IN.) COATED	0.250	0.250	0.250	0.250	0.281	0.312	0.344	0.406	0.438	0.469
WALL THICKNESS (IN.) UNCOATED	0.282	0.282	0.313	0.313	0.344	0.375	0.407	0.469	0.501	0.532

NOTES:
 1. STAINLESS STEEL CASING SPACERS ARE REQUIRED AS SHOWN.
 2. WHERE PRACTICAL, CASING SHALL EXTEND A MIN. OF 10'-0" BEYOND EDGE OF PAVEMENT OR LONGER AS REQUIRED BY LOCAL PERMITTING AGENCIES.
 3. A MINIMUM OF 3 CASING SPACERS PER JOINT OF INSTALLED CARRIER PIPE SHALL BE PROVIDED.

STANDARD DETAILS
 Casing And Pipe Support Installation Detail
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. G-009

STANDARD DETAILS
 Concrete Encasement
 NOT TO SCALE
 11/18
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. G-011

STANDARD DETAILS
 Temporary Water Sample Station Detail
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. W-022

STANDARD DETAILS
 Typical Fire Hydrant Detail Tap Installation
 NOT TO SCALE
 09/17
 DeKalb County GEORGIA
 WATER UTILITIES
 DETAIL NO. W-004

BROOKHAVEN PRJ#: 19-00049
 DEKALB AP#: 3045859

DEKALB COUNTY
 FORCEMAIN & WATER
 DETAILS

SCALE: N/A
 DATE: 06/12/2019
 PROJECT: 19051.00

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REGISTERED PROFESSIONAL ENGINEER
 No. 34200
 W. M. SCHMIDT
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C9.06
 SHEET