

Non-Potable Reuse Line Extension to Taylors Creek

for The City of Hinesville

at

Ft. Stewart

Liberty County, Georgia

June 9, 2020

Revised March 23, 2021

1. ALL CONSTRUCTION EQUIPMENT ENTERING FORT STEWART WILL BE REQUIRED TO ACCESS THROUGH THE 15TH STREET GATE (ACP 7). ONCE THE EQUIPMENT IS STAGED ON FORT STEWART THE CONTRACTOR WILL NOT BE REQUIRED TO ACCESS ACP 7 DAILY FOR CHECKS AND INSPECTIONS, HOWEVER IF THE EQUIPMENT LEAVES FORT STEWART ANY ACCESS BACK ONTO FORT STEWART WILL REQUIRE CHECKING AND INSPECTION AT ACP 7. ANY ACCESS THROUGH THE VETERANS PARKWAY GATE (ACP 8) SHALL REQUIRE SPECIAL COORDINATION WITH DES SECURITY DIVISION.

2. THE CONTRACTOR MUST OBTAIN VEHICLE PASSES FOR COMPANY/OFFICIAL VEHICLES. NO PERSONAL VEHICLES BELONGING TO CONSTRUCTION WORKERS WILL BE ALLOWED ON FORT STEWART FOR THIS PROJECT. ALL VEHICLES ENTERING WITH WORKERS WILL BE PERMITTED CONTRACTOR VEHICLES REGISTERED WITH THE FEDERAL GOVERNMENT. ALL WORKERS ENTERING FORT STEWART MUST HAVE A VALID PICTURE IDENTIFICATION.

3. DES SECURITY WILL REQUIRE AT LEAST THREE WEEKS NOTICE PRIOR TO UTILITY OR ROADWAY CONSTRUCTION OUTSIDE OF THE SITE BEGINNING TO ALLOW FORT STEWART RESIDENTS AND PERSONNEL TO BE NOTIFIED OF THE ANTICIPATED TRAFFIC CONGESTION. NO ROADWAY FULL OR PARTIAL CLOSURES FOR PAVEMENT CUTS WILL BE ALLOWED BETWEEN 05:00 TO 09:00, 11:00 TO 13:30 AND 16:00 TO 18:30, WEEKDAYS.

4. LIGHTING MUST BE MAINTAINED AT THE SITE DURING CONSTRUCTION. IF DAMAGED BY THE CONTRACTOR, THE CONTRACTOR MUST INSTALL TEMPORARY LIGHTING THAT PROVIDES THE SAME LUMINA VALUES AS THE EXISTING LIGHTS UNTIL SUCH TIME AS THE LIGHTING IS RESTORED.

5. KEYS AND LOCKS FOR ALL GATES WILL BE MAINTAINED BY ESG OPERATIONS.

6. ANY UTILITY AND ROADWAY WORK ON FORT STEWART WILL BE COORDINATED WITH DES SECURITY DIVISION.

7. THE CONTRACTOR SHALL REPLACE ALL MONUMENTS ALTERED OR DESTROYED BY THE CONSTRUCTION. THE REPLACED MONUMENT SHALL BE BY A GARS AND CERTIFIED TO FORT STEWART TO MEET FEDERAL STANDARDS

8. ALL TIMBER REMOVAL AND CLEARING ON FORT STEWART WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING. ALL ABOVE GROUND TIMBER WILL BE TRANSPORTED AND STOCKPILED AT THE FORT STEWART CHIPPING SITE WITHIN THE SECURE AREA. ALL BELOW GROUND TIMBER (STUMPS AND ROOTS) SHALL BE DISPOSED OF AT A PERMITTED SITE. THE CONTRACTOR SHOULD ANTICIPATE THE DISPOSAL SITE WILL BE OFF FORT STEWART AND ACCESS BACK IN WILL BE THROUGH ACP 7.

9. NO BORROW MATERIAL IS AVAILABLE ON FORT STEWART. ALL BORROW MATERIAL TRANSPORTED ONTO FORT STEWART WILL BE THROUGH ACP 7.

10. ALL SIGNS LOCATED ON THE INSTALLATION WILL BE MANAGED BY FORT STEWART DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE REMOVAL AND ADJUSTMENT OF SIGNS BY PROVIDING FORT STEWART OFFICIALS AT LEAST ONE WEEKS NOTICE OF SIGNS REQUIRING RELOCATION.

11. PROJECT MEETINGS WILL BE HELD WEEKLY TO REVIEW CONSTRUCTION STATUS, SECURITY ISSUES AND COORDINATION WITH FT STEWART DPW AND SECURITY

13. THE CONTRACTOR WILL BE REQUIRED TO PREPARE AND SUBMIT A SAFETY PLAN TO FT STEWART.

14. ANY WORK OUTSIDE OF THE SCOPE OF THE PLANS SHOWN WILL REQUIRE SECURITY APPROVAL PRIOR TO BEGINNING.

15. ARCHEOLOGICAL OR CULTURAL DISCOVERIES DURING CONSTRUCTION WILL IMMEDIATELY BE REPORTED TO FORT STEWART.

16. NO RIGHT OF WAY EXIST ON FORT STEWART. THE CONTRACTORS LIMITS OF DISTURBANCE, UNLESS OTHERWISE SPECIFICALLY INDICATED, SHALL BE LIMITED TO 10' OUTSIDE THE UTILITY MAINS BEING INSTALLED.

17. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN PICTURE IDENTIFICATION CARDS FOR ALL PERSONNEL ENTERING FT STEWART

18. ALL EROSION AND SEDIMENT CONTROL ON THE PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL FOR GEORGIA.

19. THE WASTEWATER TREATMENT PLANT AND REUSE WATER SYSTEM MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION, BY THE CONTRACTOR, OF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.

20. EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.

21. RELOCATION OF EQUIPMENT WILL REQUIRE COORDINATION WITH OPERATIONS PERSONNEL.

22. REHAB MATERIALS WILL MATCH NEW MATERIALS AS IT RELATES TO LOOKS AND PERFORMANCE.

SHEET INDEX:

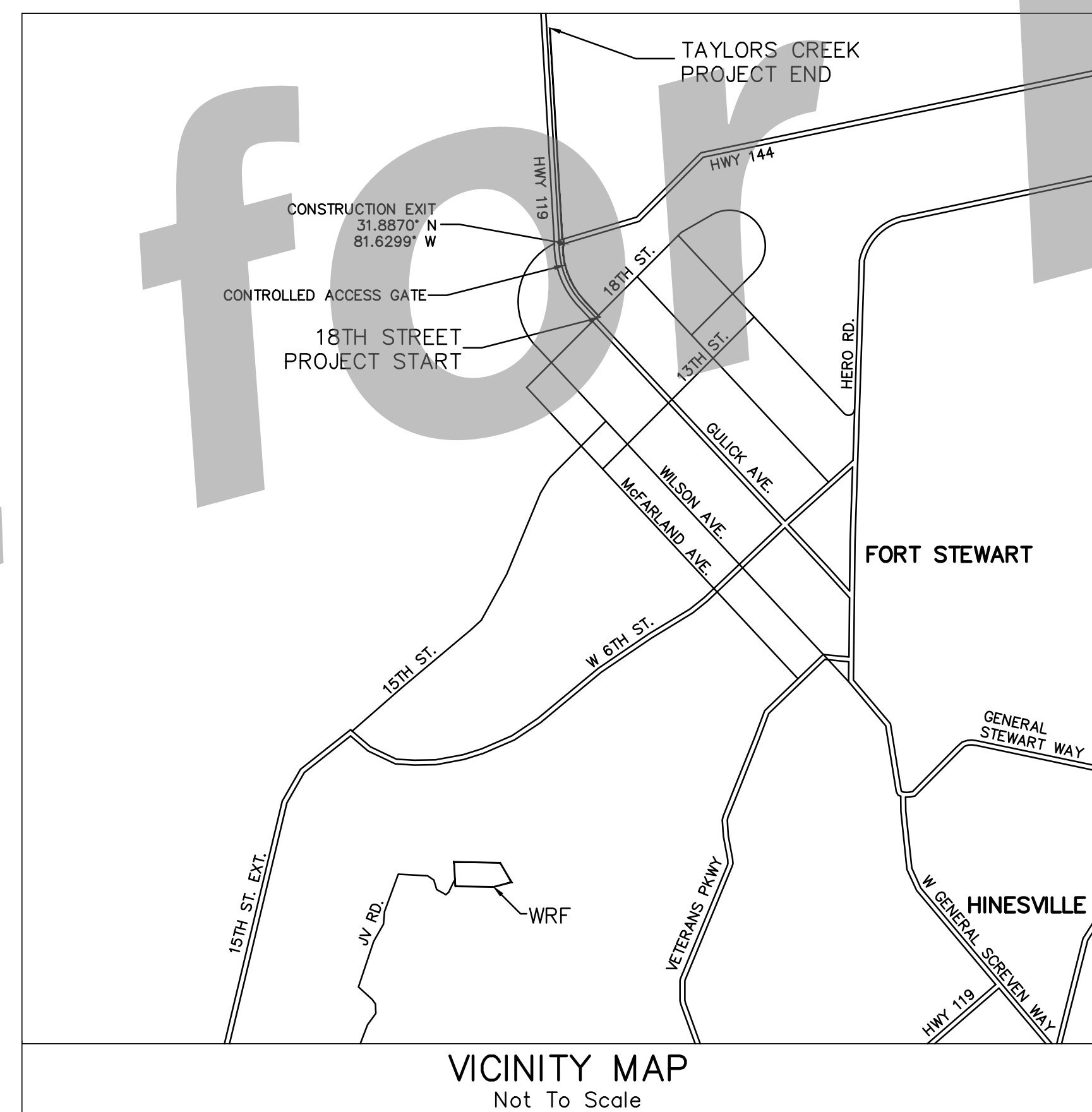
DESCRIPTION	SHEET
1. OVERALL PLAN	SHEET 1
2. PLANS & PIPE PROFILES	SHEETS 2-8
3. LOW PROFILE CASCADE AERATOR DETAIL	SHEET 9
4. E&S PLANS	SHEETS 10-13
5. E&S NOTES & DETAILS	SHEETS 14-15
6. GENERAL DETAILS	SHEET 16

GENERAL NOTES

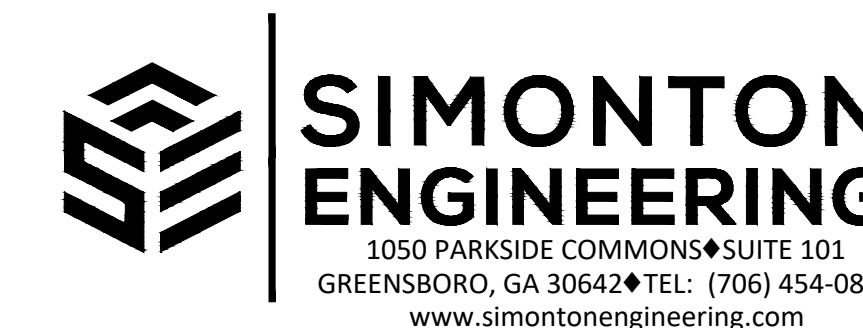
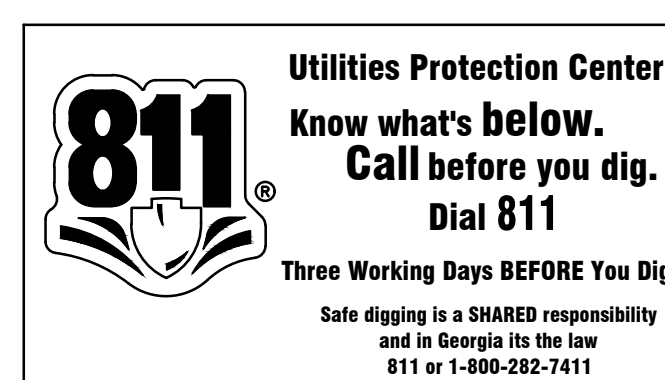
- ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
- ALL DISTURBED AREAS TO BE RE-VEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
- ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL GUCC, CURRENT EDITION.
- ALL STREET AND INFRASTRUCTURE INSTALLATION TO BE IN ACCORDANCE WITH CITY OF HINESVILLE STANDARDS.

OWNER/AGENT

CITY OF HINESVILLE
KENNETH HOWARD, CITY MANAGER
115 EAST M.L. KING JR. DRIVE
HINESVILLE, GA 31313
TEL: (912) 876-3564
FAX: (912) 369-2416



VICINITY MAP
Not To Scale



Level II Certification No. 935
Expiration Date: 10-01-23

JOB NO. 2017-100PRJ

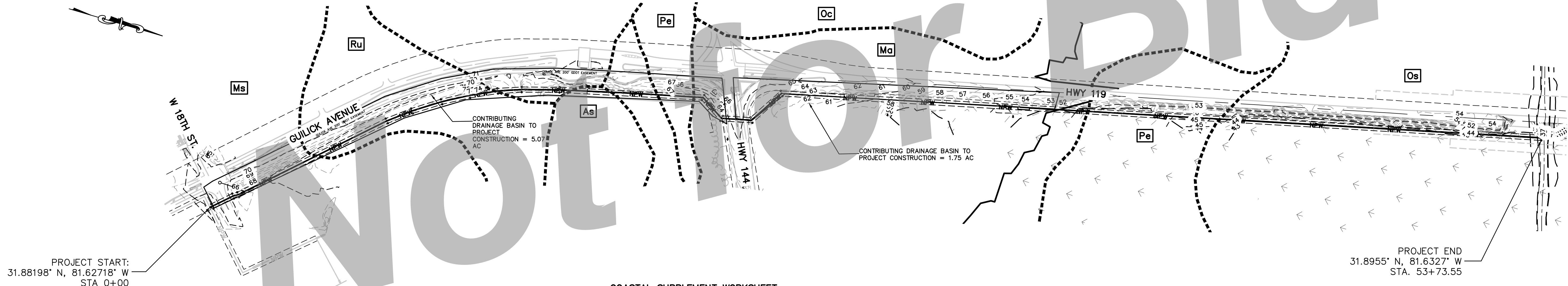
REVISION NO.	DATE	DESCRIPTION
1	12-17-18	PER GDOT COMMENTS
2	8-3-2020	TO UPDATE ES&PC DETAILS
3	12-20-20	ADDRESS E&S COMMENTS
4	2-6-21	RELOCATE RE-AERATION STRUCTURE OUT OF FLOOD PLAIN
5	3-23-21	UPDATE DISTURBED ACREAGE

GENERAL NOTES:

- TOTAL PROJECT ACRES = 2.46 AC
- EROSION AND SEDIMENT CONTROL TO BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- ALL DISTURBED AREAS ARE TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- RIPRAP WILL BE USED TO STABILIZE DITCH BANKS IN AREAS WHERE STORM WATER FLOW CHANGES DIRECTION OR SLOPES ALLOW VELOCITY TO EXCEED 2 FT/SEC.
- UTILITY AND STREET INSTALLATION TO BE IN ACCORDANCE WITH THE CITY OF HINESVILLE STANDARD SPECIFICATIONS.
- NO RIGHT-OF-WAY PRESENT ON FT. STEWART
- TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE CURRENT MUTCD.
- REUSE LINE TO BE INSTALLED USING A COMBINATION OF TRENCHING AND BORING.

LEGEND FOR EROSION AND SEDIMENT CONTROL PRACTICES		
CODE	PRACTICE	DESCRIPTION
Co	CONSTRUCTION EXIT	A STONE PAD LOCATED AT THE JOB SITE EXIT TO REMOVE MUD AND DEBRIS FROM TIRES AND PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.
Ch	CHANNEL STABILIZATION	LOOSE ROCK OR SIMILAR DURABLE MATERIAL INSTALL ON SLOPES FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.
Sd1	SILT FENCE (SEE DETAIL TYPE)	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.
Sd2	SEDIMENT TRAP	EXCAVATING AROUND A STORM DRAIN, DROP INLET TO CATCH SEDIMENT.
S	STORM DRAIN OUTLET PROTECTION	PAVED OR ROCK SECTION BELOW A STORM DRAIN OUTLET FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS NOT PRODUCED ON THE SITE TO THE SOIL SURFACE SUCH AS GRAIN STRAW, HAY, PINE NEEDLES, WOOD WASTE AND SHREDDED RESIDUES.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)	ESTABLISHING TEMPORARY VEGETATIVE COVER SUCH AS RYE, SUDANGRASS, WHEAT, OR RYEGRASS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
CR-Hb	CHECK DAM - (HAYBALE TYPE)	SMALL TEMPORARY BARRIER, GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.

DRAWING LEGEND		
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	—SS—	—SS—
UNDERGROUND WATER LINE	—W—	—W—
FORCE MAIN	—FM—	—FM—
STORM DRAINAGE PIPE	—SD—	—SD—
UNDERGROUND TELEPHONE LINE	—T—	—T—
UNDERGROUND TELEPHONE CONDUIT	—TC—	—TC—
UNDERGROUND GAS LINE	—12" G—	—12" G—
DITCH CENTERLINE	—DC—	—DC—
TOP OF CURB & GUTTER ELEVATIONS	TC=90.00 G=89.50	EX TC=90.00 EX G=89.50
SPOT ELEVATION		
FIRE HYDRANT	⊗	⊗
SEWER MANHOLE	⊗	⊗
WATER VALVE	⊗	⊗
TELEPHONE MANHOLE	⊗	⊗
LIGHT POLE	⊗	⊗
SIGN	⊗	⊗
WATER METER	⊗	⊗
BENCHMARK	⊗	⊗
CONCRETE MONUMENT FOUND	⊗	⊗
GUY POLE	⊗	⊗
IRON PIN FOUND	⊗	⊗
IRON PIN SET	⊗	⊗
TELEPHONE PEDESTAL	⊗	⊗
POWER POLE	⊗	⊗
HANDICAP SPACE	⊗	⊗
SEDIMENT BASIN MARKER W/NOTCH	⊗	⊗



COASTAL SUPPLEMENT WORKSHEET

THIS PROJECT IS AN INFRASTRUCTURE PROJECT AND ADDS ONLY 384 SF OF IMPERVIOUS AREA (RE-AERATION BASIN ENCLOSURE) TO THE SITE.

RUNOFF REDUCTION FOR 95TH PERCENTILE RAINFALL EVENT (1.94 INCH STORM EVENT) FOR THE PROJECT THAT CREATE OR ADD 5,000 SF OR GREATER OF NEW IMPERVIOUS SURFACE.

NO CSS WORKSHEET PREPARED.

EROSION CALCULATIONS

DISTURBED AREA = 1.7 AC
CONTRIBUTING DRAINAGE BASIN = 6.82 ACRES

SEDIMENT STORAGE REQUIRED:
6.82 AC X 67 CY/AC = 457 CY

SEDIMENT STORAGE PROVIDED:
TOTAL LENGTH Sd1 = 4604 LF
GSWCC REQUIRED SILT FENCE = 100' PER 1/4 ACRE
SILT GENERATED PER ACRE = 67 CY
67 CY/1/4 = 16.75 CY PER 1/4 ACRE
16.75 CY PER 100 LF = 0.1675 CY PER FOOT
.17 CY/LF X 4,604 LF = 782 CY

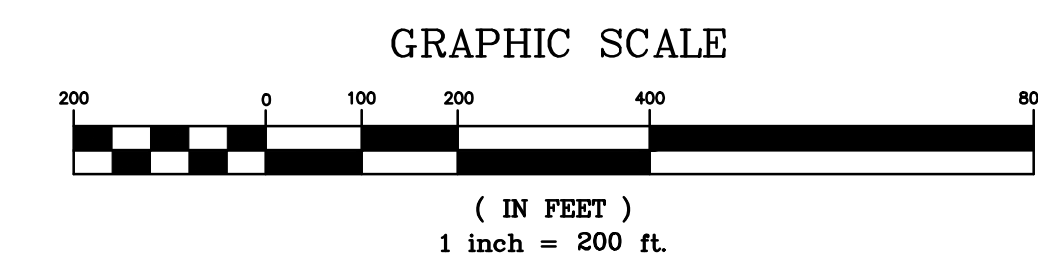
THERE WILL BE NO MASS GRADING RESULTING IN CHANGES OF CONTOUR LINES.

ALL BMPs ARE COMBINED INTO A SINGLE SET OF BMPs ONLY.

THE WETLANDS LOCATED INSIDE THE PROJECT AREA WILL BE DIRECTIONALLY BORED, MINIMIZING DISTURBANCES INSIDE THE DRAINAGE BASINS.

IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF A SEDIMENT BASIN ON THIS PROJECT IS NOT NECESSARY OR FEASIBLE. CONTRACTOR/OWNER WILL NOT HAVE ADEQUATE AREA ON THE PROJECT TO INSTALL A SEDIMENT BASIN. THE SEDIMENT BASIN INSTALLATION WOULD CREATE MORE LAND DISTURBANCE THAN THE PROPOSED PROJECT. ADDITIONALLY, SITE TOPOGRAPHY DOES NOT ALLOW FOR SITE DRAINAGE TO SEDIMENT BASINS WITHOUT INCREASING THE POTENTIAL FOR INCREASED EROSION ACROSS THE SITE. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF THE BMPs IN THESE CONSTRUCTION PLANS, AND PROPER MAINTENANCE, SHOULD PROVIDE SUFFICIENT SEDIMENT STORAGE.

SOILS SERIES LEGEND	
As	ALBANY LOAMY FINE SAND, 0-2% SLOPE
Mq	MADARIN FINE SAND, 0-2% SLOPE
Me	MASCOTTE FINE SAND, 0-2% SLOPE
Ms	MASCOTTE-URBAN LAND COMPLEX, 0-2% SLOPE
Oc	OCCILLA LOAMY FINE SANDS
Os	OSIER AND BIBB SOILS
Pe	PELHAM LOAMY SAND, 0-2% SLOPES, FREQ. FLOODED
Ru	RUTLEGE FINE SAND



DRAWING COMPLETED BY: [REDACTED]

REVISED: 8-3-2020 TO UPDATE ESR&PC COMMENTS
12-20-2020 TO UPDATE ESR&PC COMMENTS
2-05-2021 REAERATION STRUCTURE OUT OF FLOOD PLAIN
3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P.C. SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF P.C. SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE DRAWING. P.C. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY OF THIS DRAWING SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.

REGISTERED PROFESSIONAL ENGINEER
P.C. SIMONTON & ASSOCIATES, INC.
LIBERTY COUNTY, GEORGIA

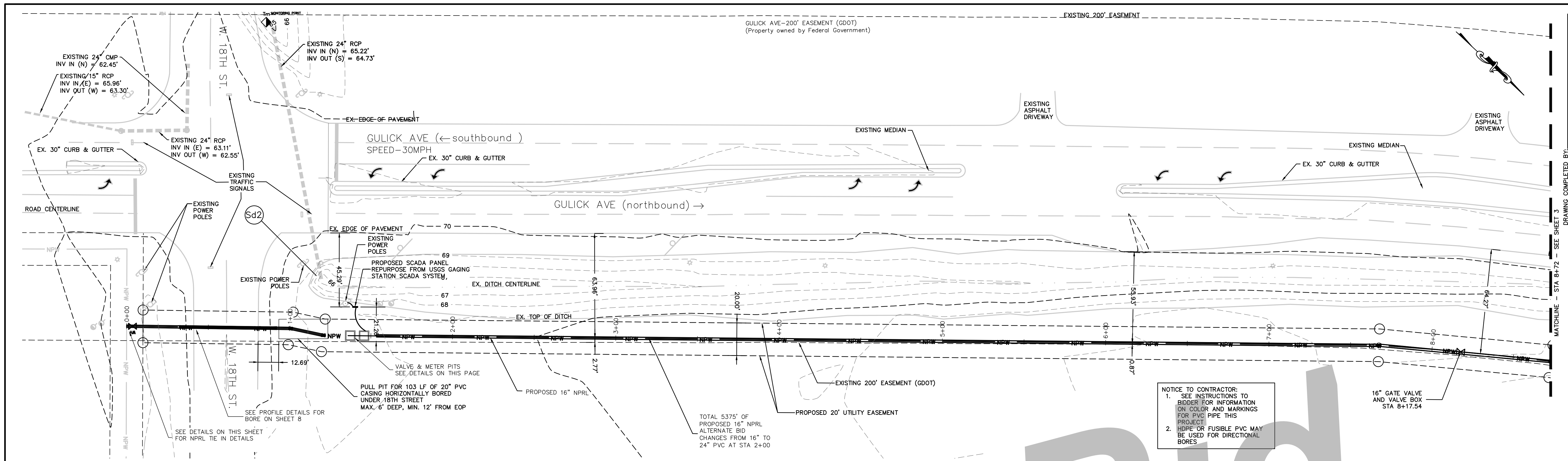
GSWCC LVL II # 000000935
DATE: [REDACTED]

1050 PARKSIDE COMMONS
GREENSBORO, GA 30642
TEL: (706) 454-0870
www.simontonengineering.com

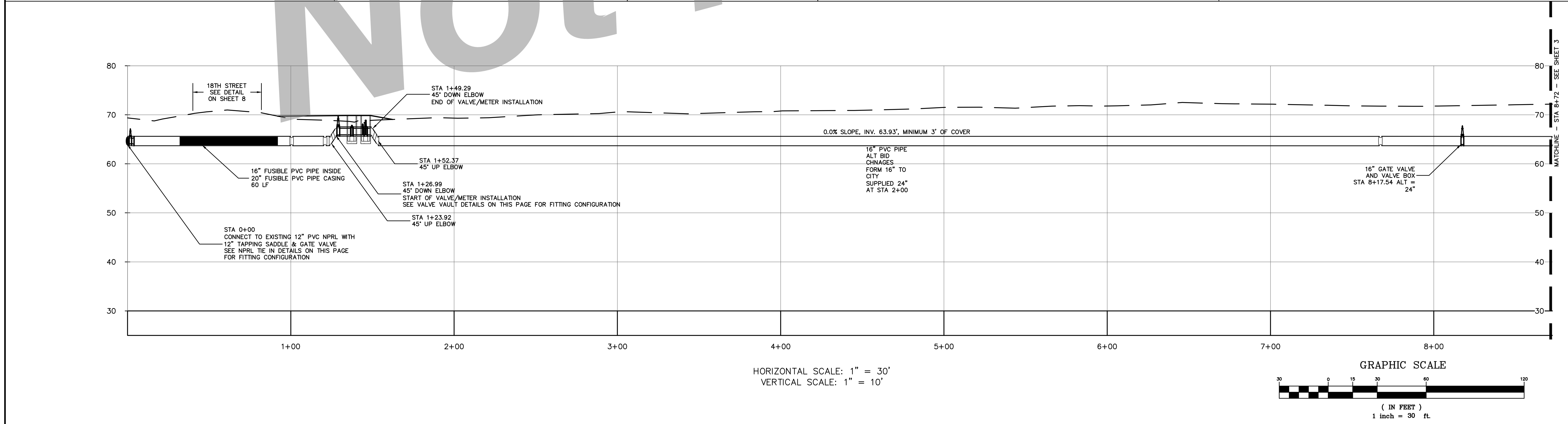
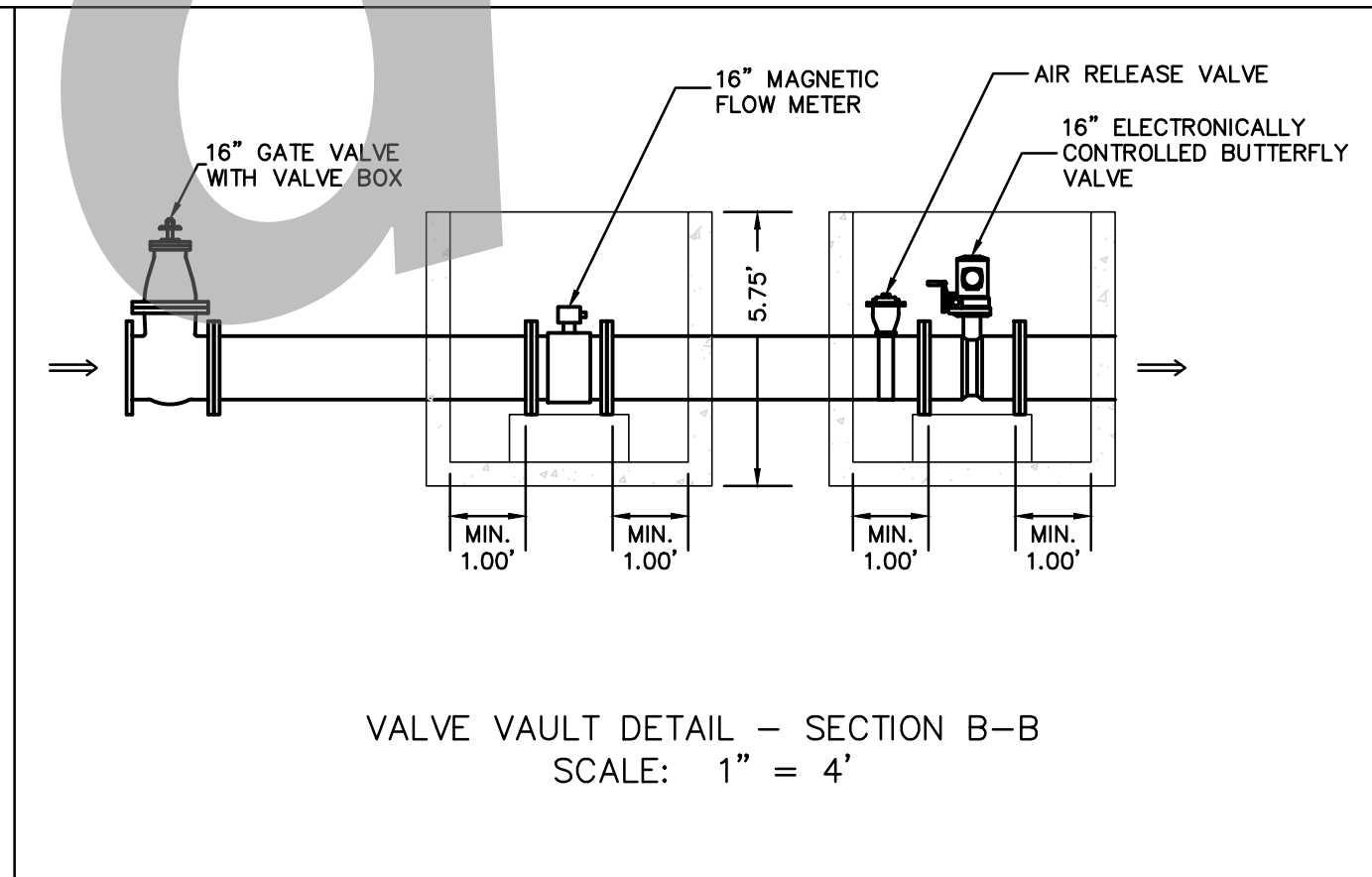
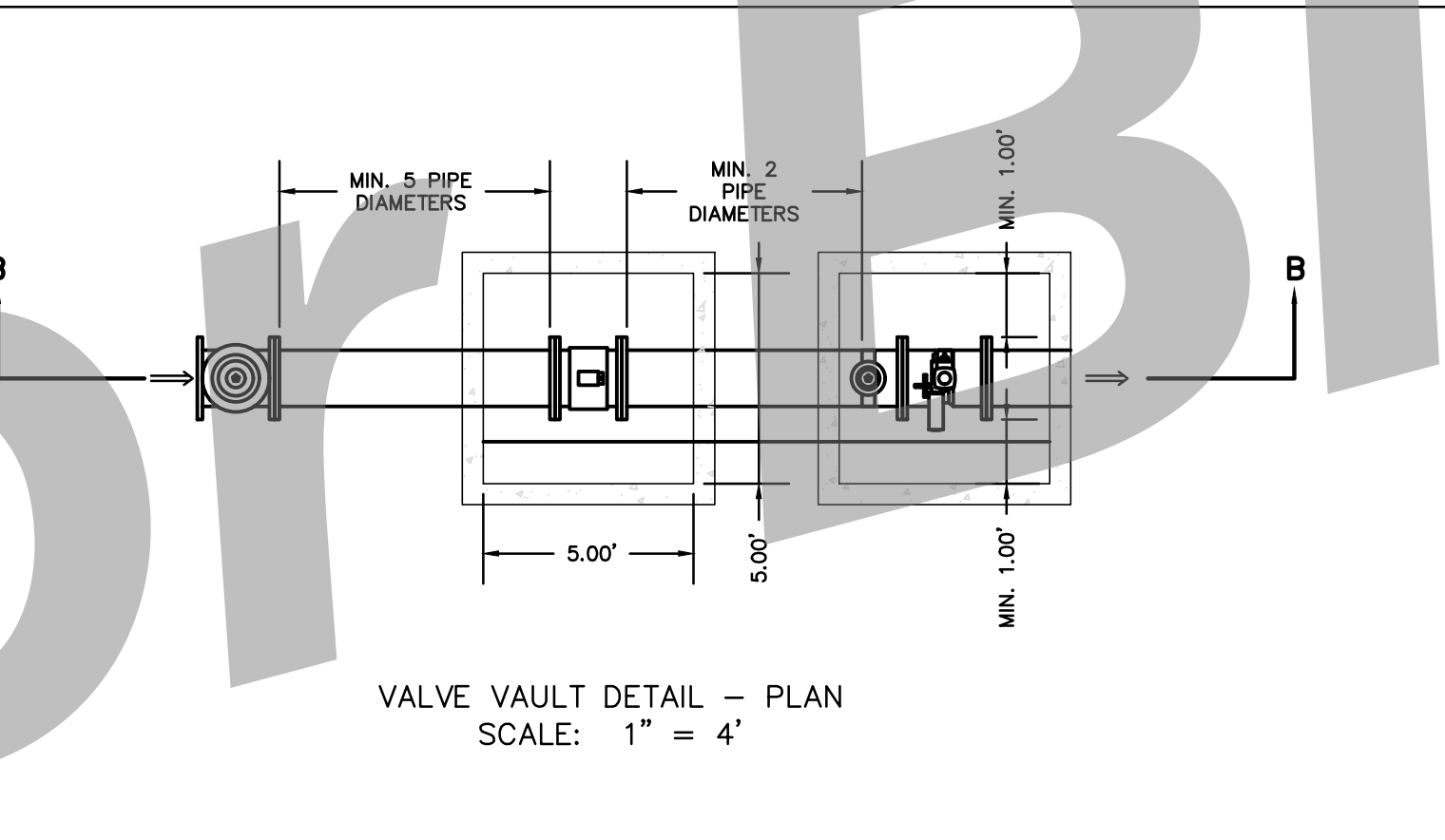
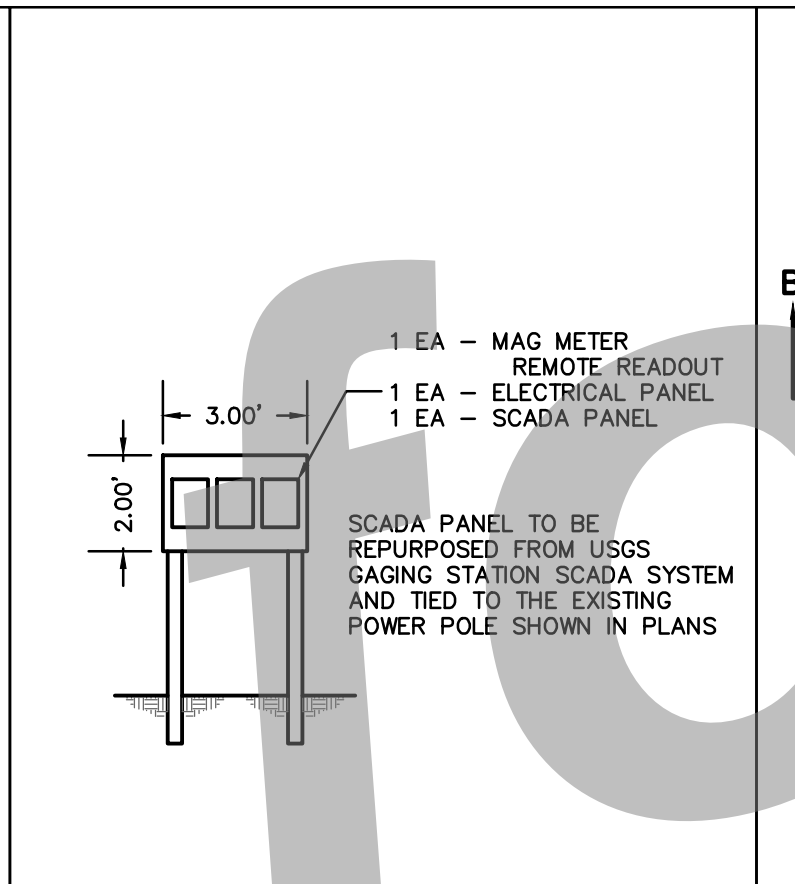
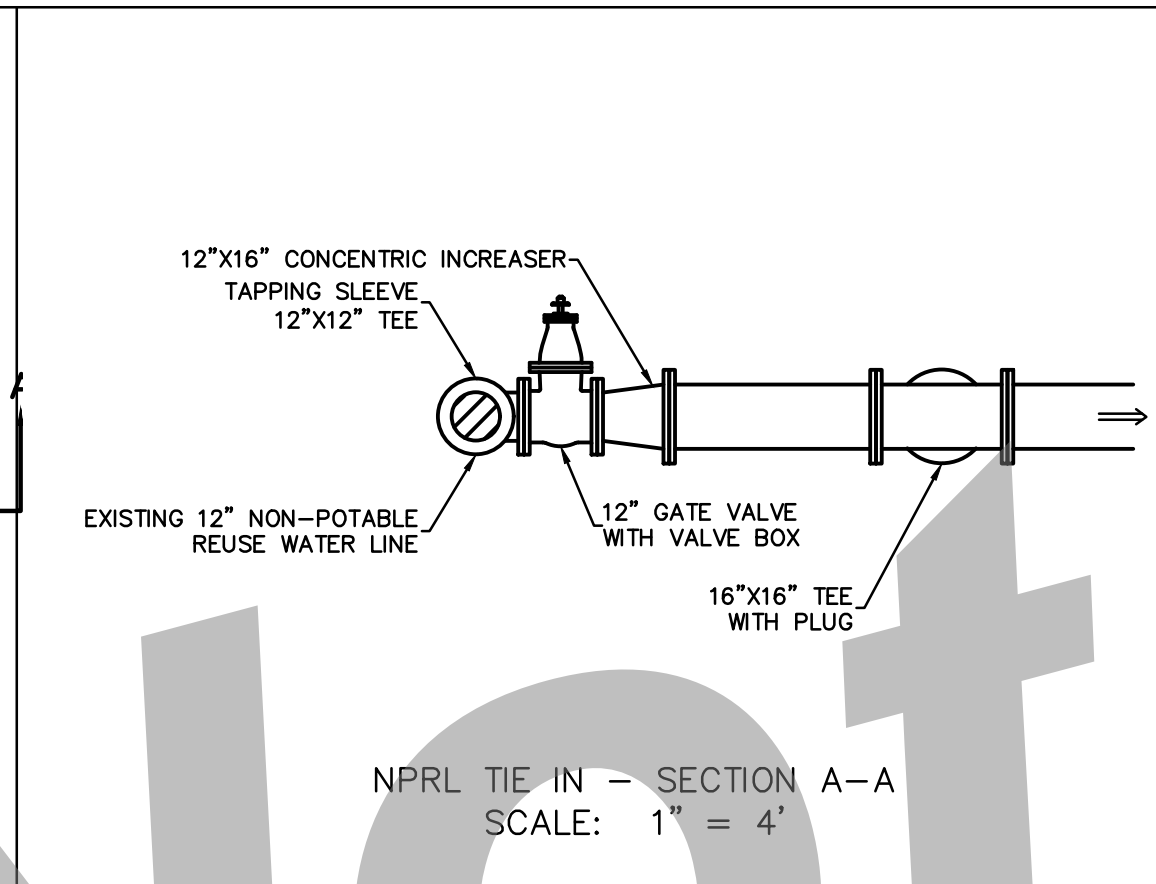
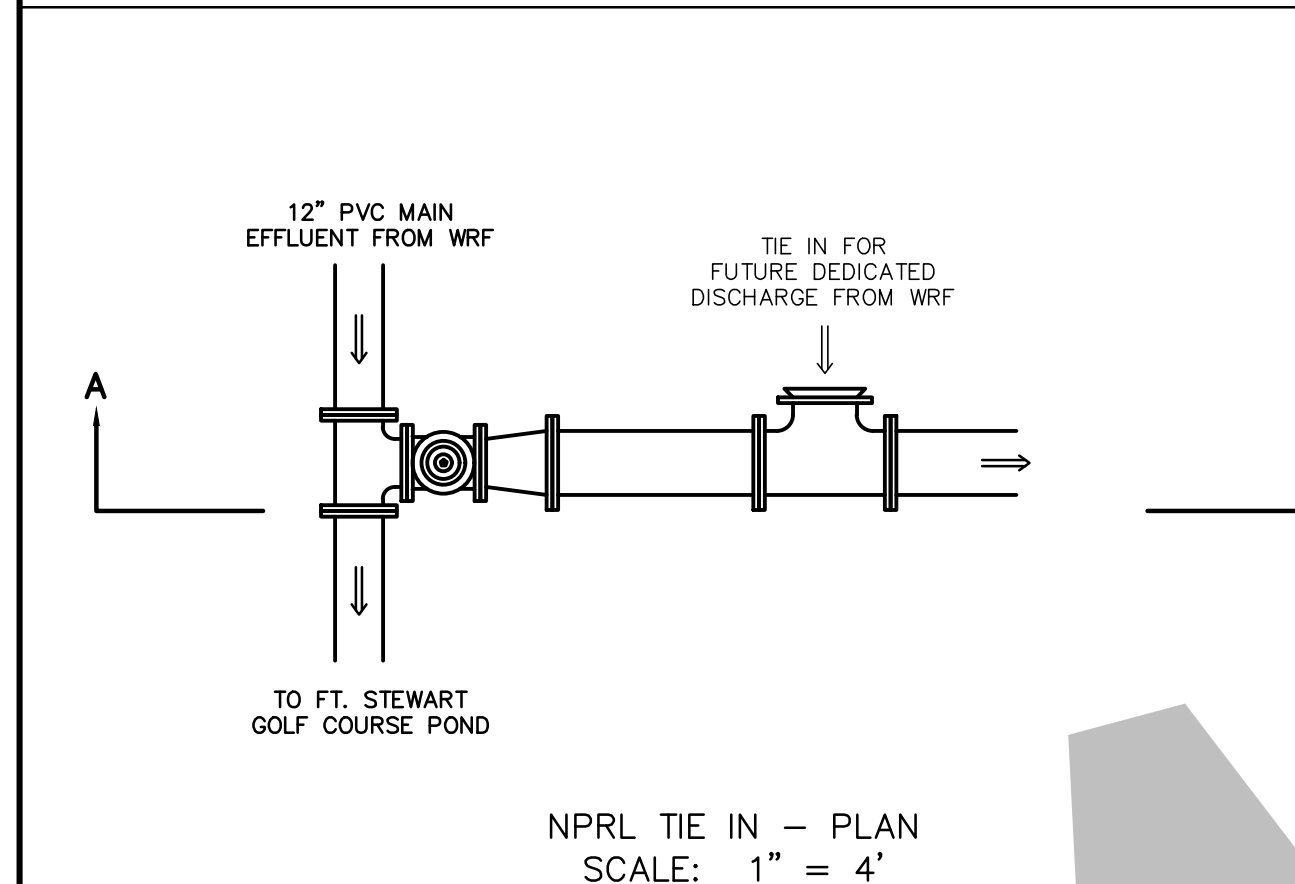
SIMONTON ENGINEERING

NPRL for The City of Hinesville
Hinesville
Liberty County, Georgia

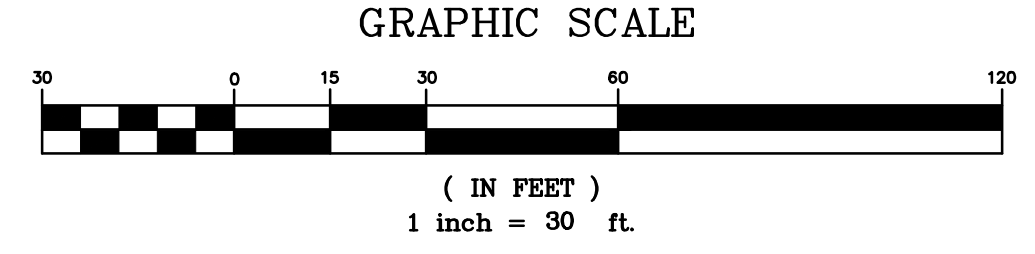
Plan
DATE: JUNE 9, 2020
FILE NO: 2017-100PRJ
SHEET: 1



NOTICE TO CONTRACTOR:
 1. SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT.
 2. HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'



REVISIONS: 02-27-2020 PER URBAN DESIGN COMMENTS
 12-20-2020 TO UPDATE ESR&C COMMENTS
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. NO PART OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN IS TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.O.P.C. SIMONTON & ASSOCIATES, INC.

DRAWING COMPLETED BY: STA 8+72 - SEE SHEET 3
 MATCHLINE - STA 8+72 - SEE SHEET 3

GEORGIA REGISTERED PROFESSIONAL ENGINEER
 #18222
 BLU C. SIMONTON

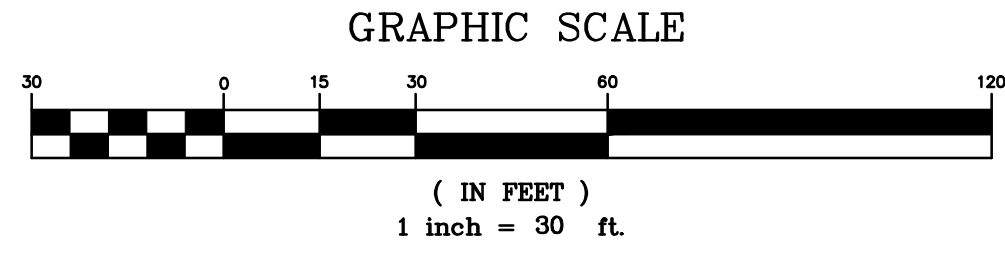
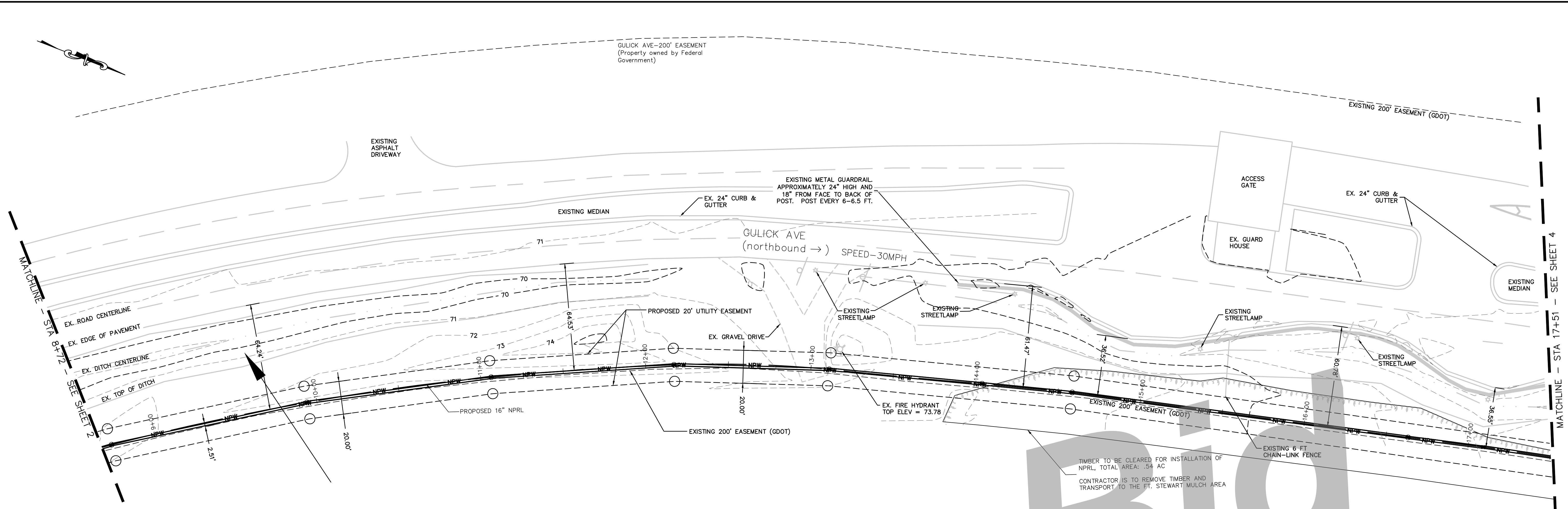
GSWCC LV. II # 0000009035
 DATE:

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (769) 454-0870
 www.simontonengineering.com

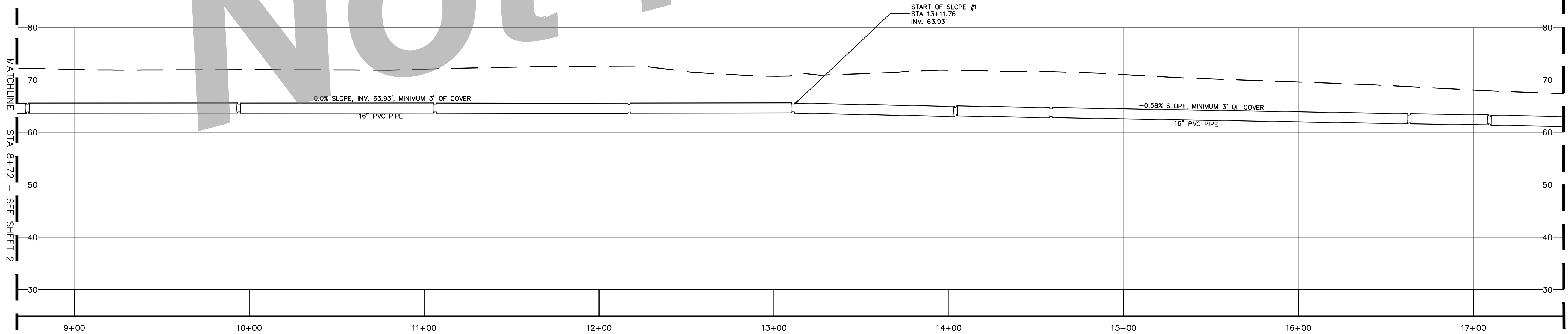
SIMONTON ENGINEERING

NPRL for The City of Hinesville
 Hinesville
 Liberty County, Georgia

Plan & Profile
 DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 2



NOTICE TO CONTRACTOR:
 1. SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT
 2. HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

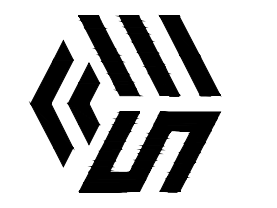
DRAWING COMPLETED BY:
 REVISIONS: 02-27-2020 PER URBAN DESIGN COMMENTS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMUNTON & ASSOCIATES, INC. NO PART OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN IS TO BE COPIED, ALTERED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF SIMUNTON & ASSOCIATES, INC. SIMUNTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.P.C. SIMUNTON & ASSOCIATES, INC.



GSWCC LV. II # 0000000935
 DATE:

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (769) 454-0870
 www.simontonengineering.com

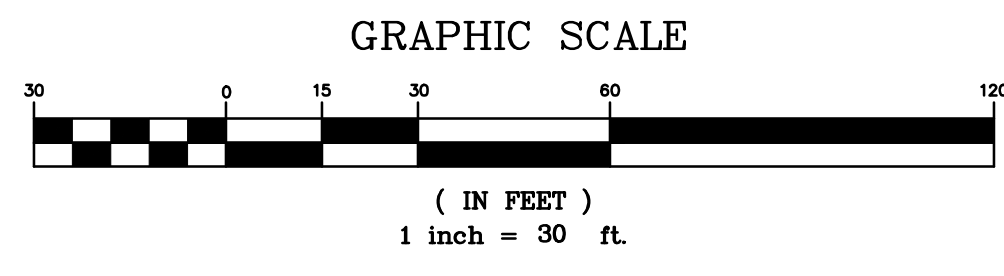
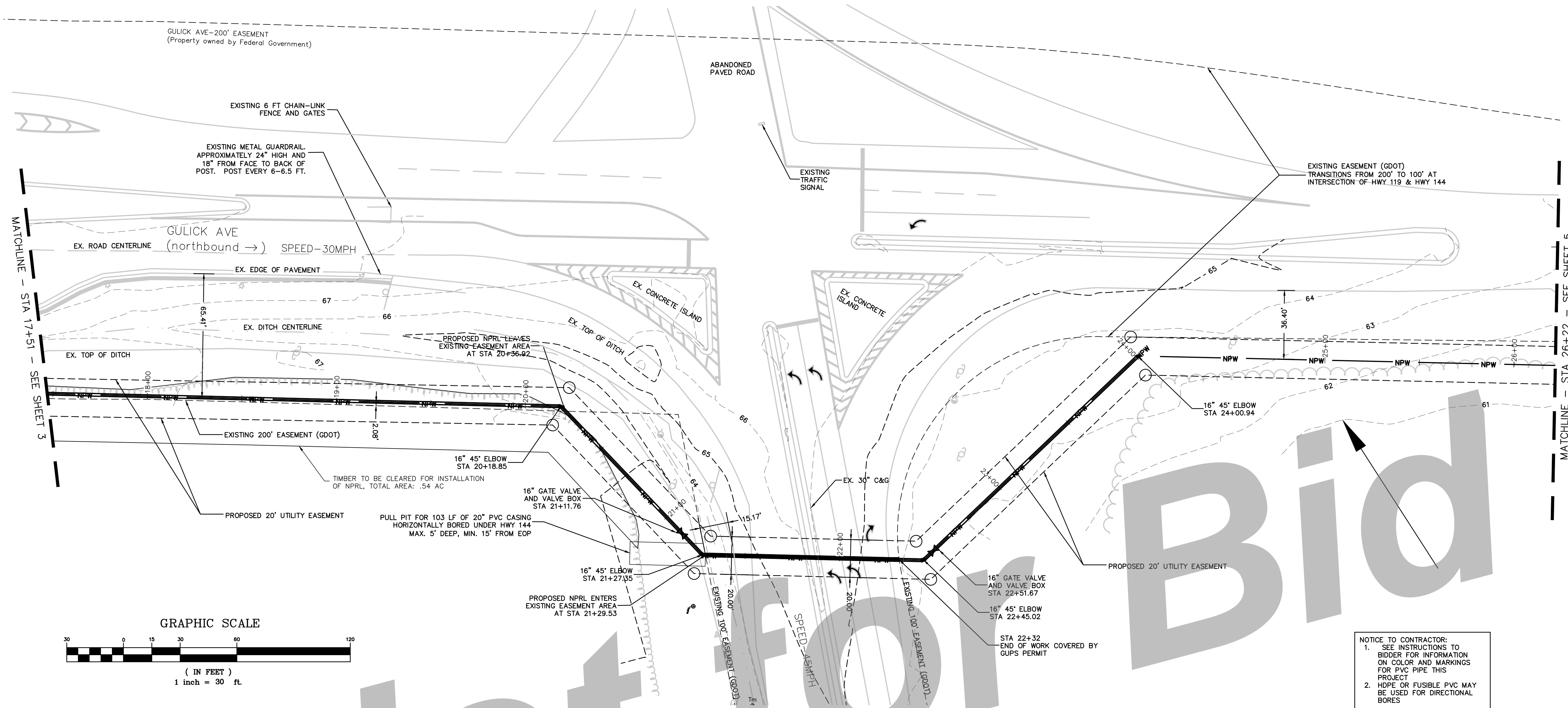
SIMUNTON ENGINEERING



NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

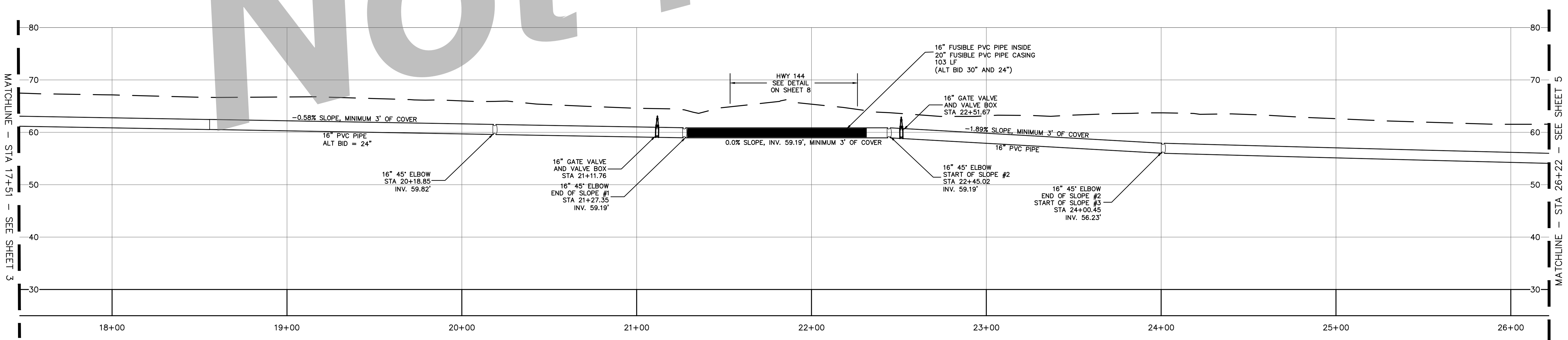
Plan & Profile

DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 3



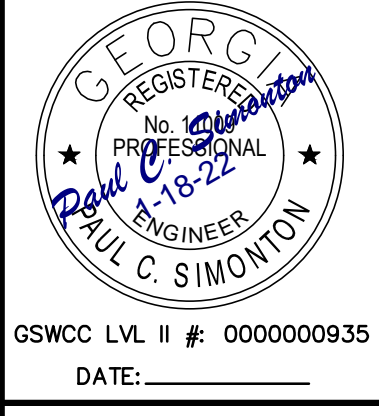
NOTICE TO CONTRACTOR:

- SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT
- HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



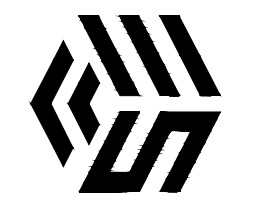
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'

DRAWING COMPLETED BY: _____
 REVISIONS: 02-27-2020 PER URBAN DESIGN COMMENTS
 12-20-2020 TO UPDATE ESDPC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.P.C. SIMONTON & ASSOCIATES, INC.



1050 PARKSIDE COMMONS
GREENSBORO, GA 30642
TEL: (769) 454-0870
www.simontonengineering.com

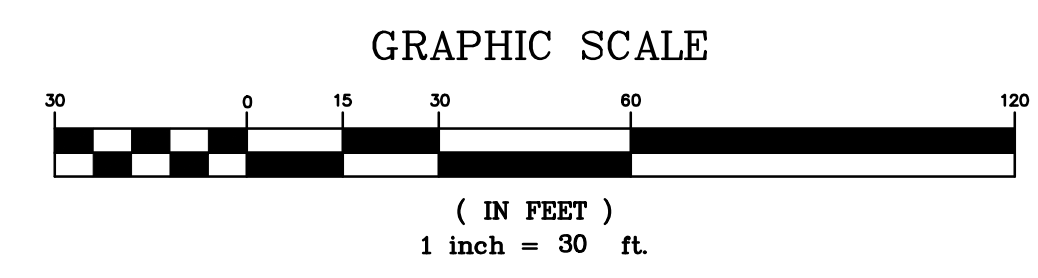
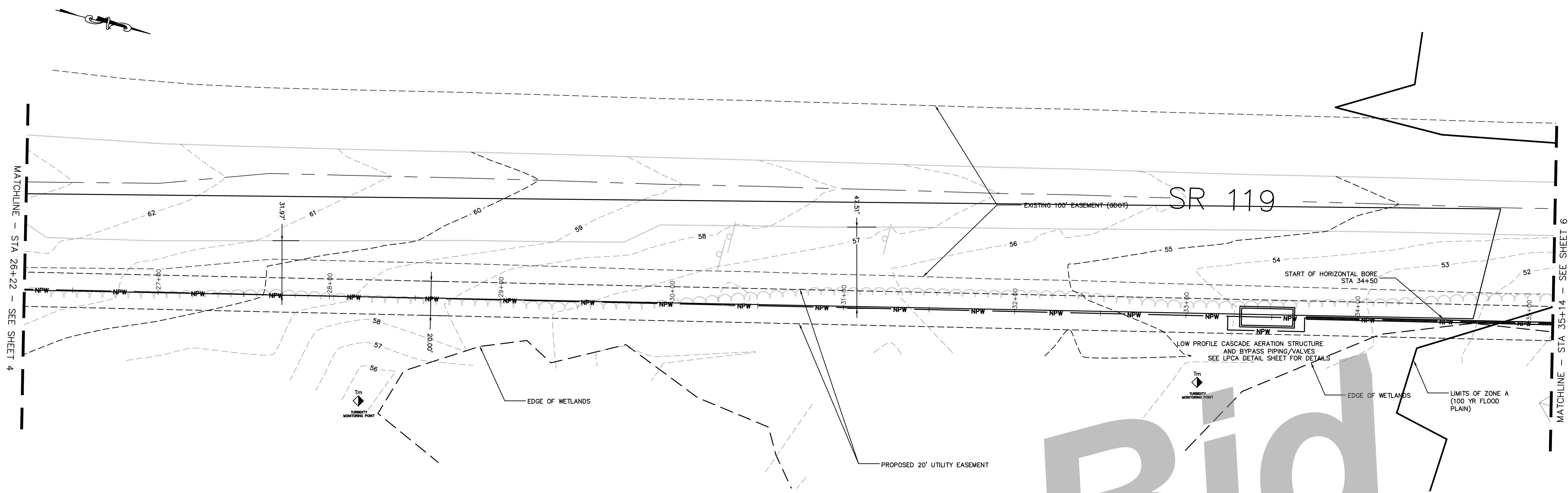
SIMONTON ENGINEERING



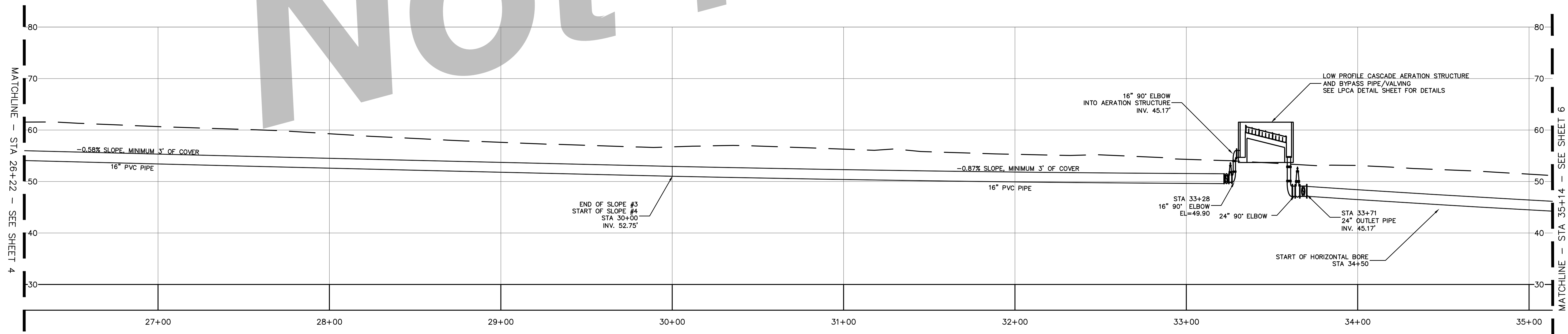
NPRL for
The City of Hinesville
Hinesville
Liberty County, Georgia

Plan & Profile

DATE: JUNE 9, 2020
FILE NO: 2017-100PRJ
SHEET: 4



NOTICE TO CONTRACTOR:
 1. SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT
 2. HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

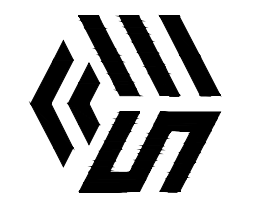
DRAWING COMPLETED BY:
 REVISED: 02-27-2020 PER URBAN DESIGNER'S DETAILS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REAERATION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P.C. SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF P.C. SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. P.C. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 P.C. SIMONTON & ASSOCIATES, INC.



GSWCC LV. II #: 0000000935
 DATE:

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (769) 454-0870
 www.simontonengineering.com

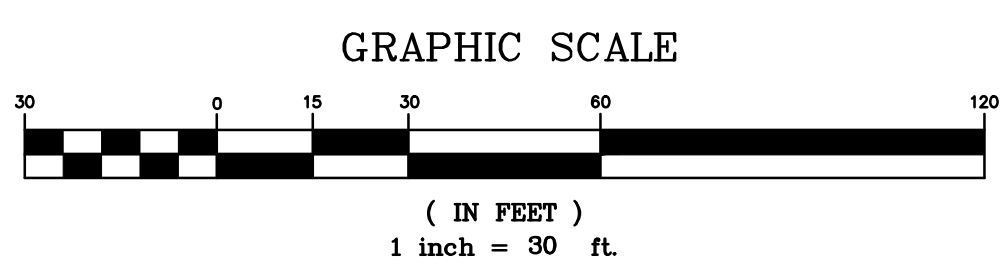
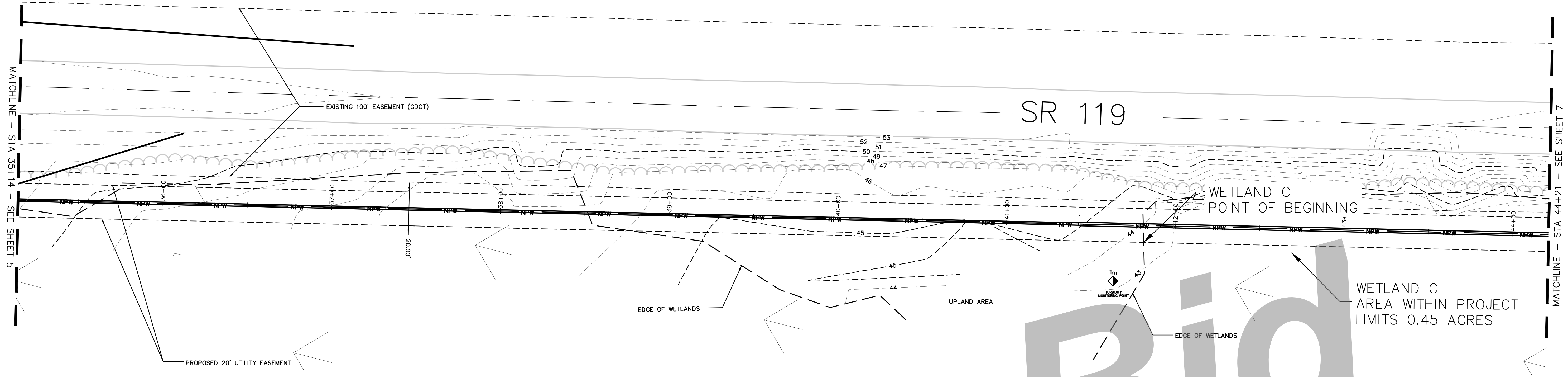
SIMONTON
 ENGINEERING



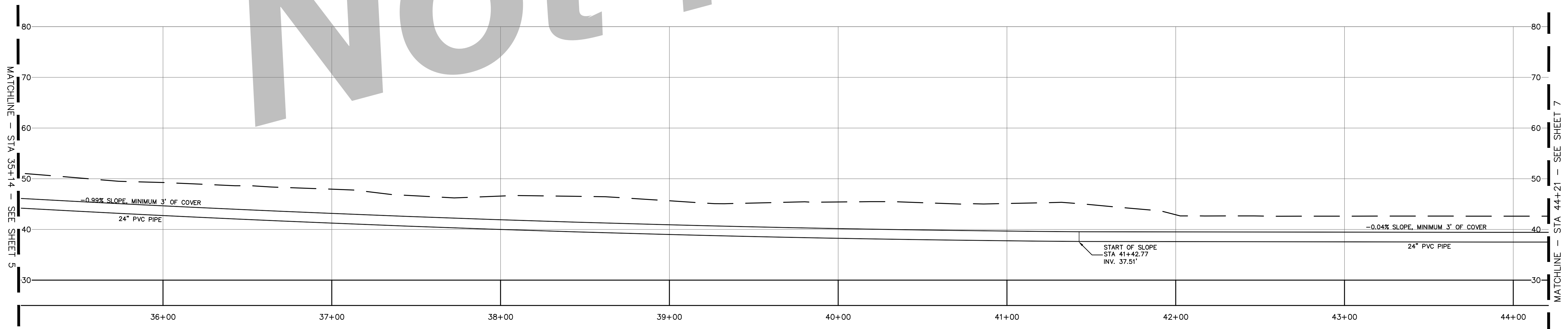
NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

Plan & Profile

DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 5



NOTICE TO CONTRACTOR:
 1. SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT
 2. HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

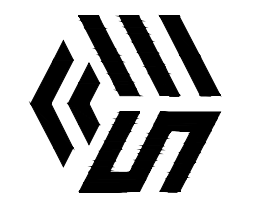
DRAWING COMPLETED BY:
 REVISED: 02-27-2020 PER URBAN DESIGN DETAILS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAIN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.P.C. SIMONTON & ASSOCIATES, INC.



GSWCC LV. II # 0000000935
 DATE:

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (760) 454-0870
 www.simontonengineering.com

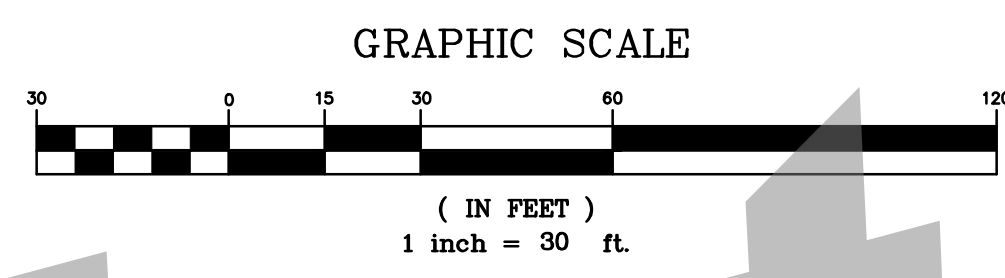
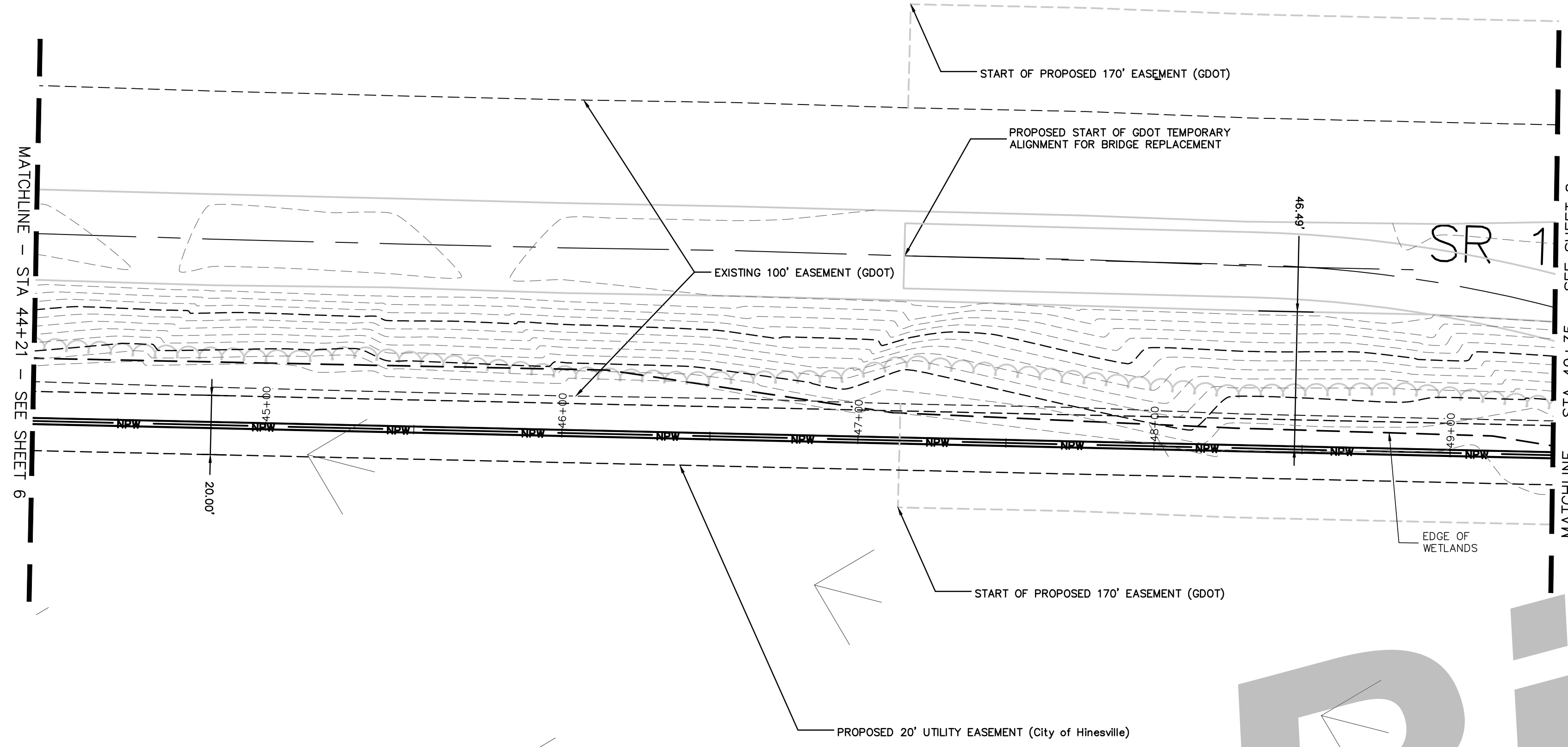
SIMONTON ENGINEERING



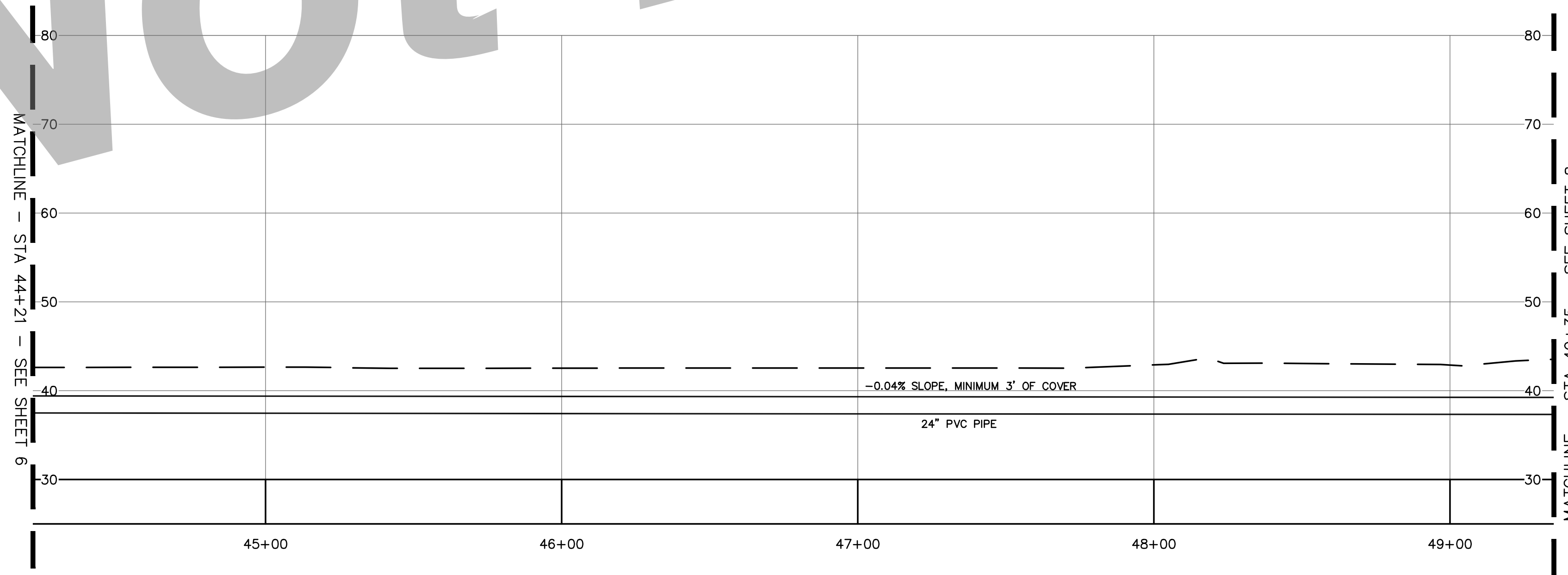
NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

Plan & Profile

DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 6



NOTICE TO CONTRACTOR:
 1. SEE INSTRUCTIONS TO BIDDER FOR INFORMATION ON COLOR AND MARKINGS FOR PVC PIPE THIS PROJECT
 2. HDPE OR FUSIBLE PVC MAY BE USED FOR DIRECTIONAL BORES



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

Not for Bid

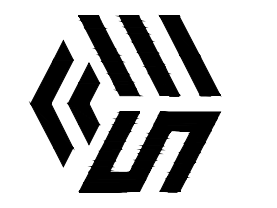
DRAWING COMPLETED BY:
 REVISED: 02-21-2020 PER URBAN DESIGN DETAILS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAIN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STATED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 © P.C. SIMONTON & ASSOCIATES, INC.



GSWCC L.V. II # 0000000935
 DATE:

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (760) 454-0870
 www.simontonengineering.com

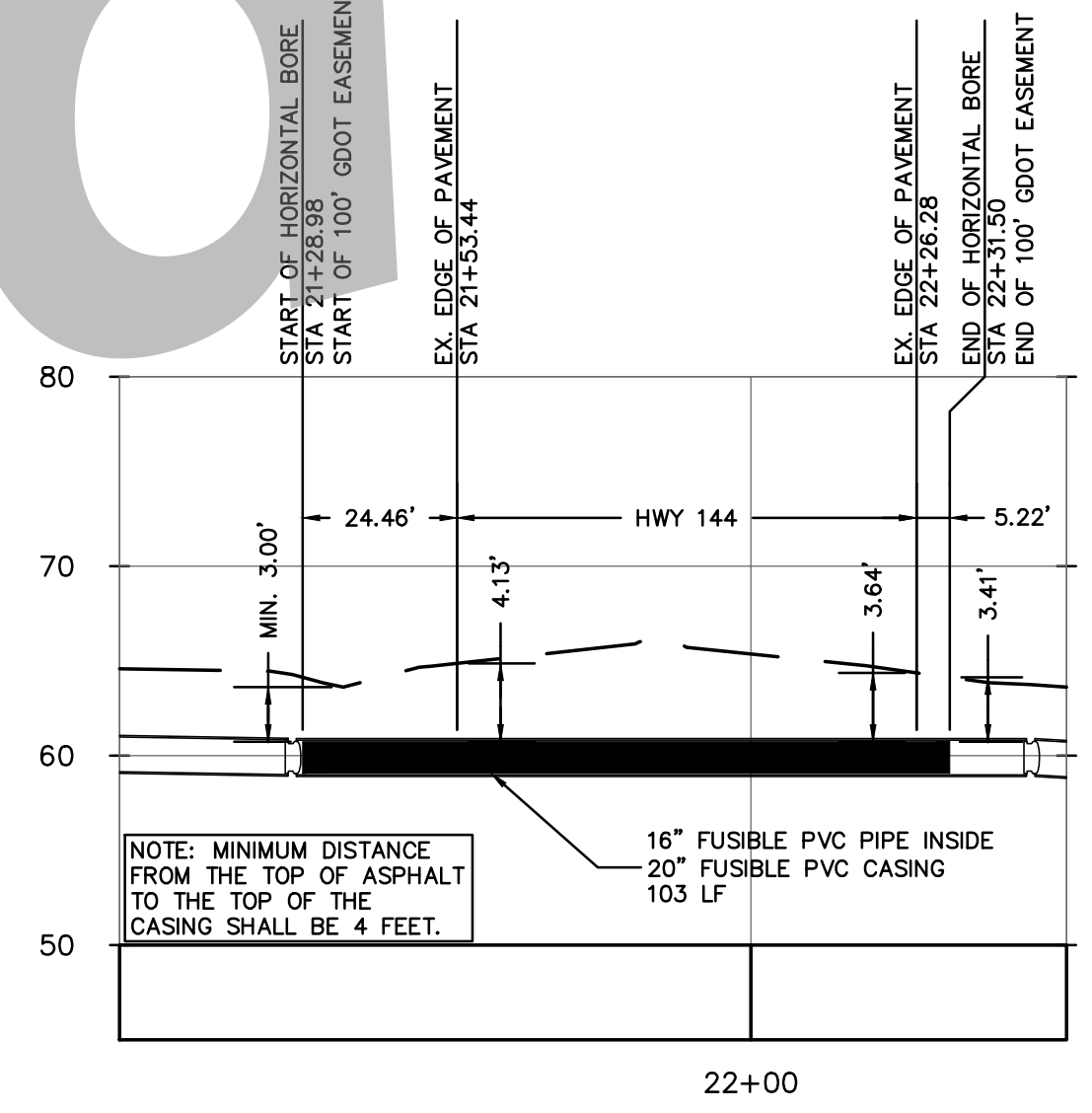
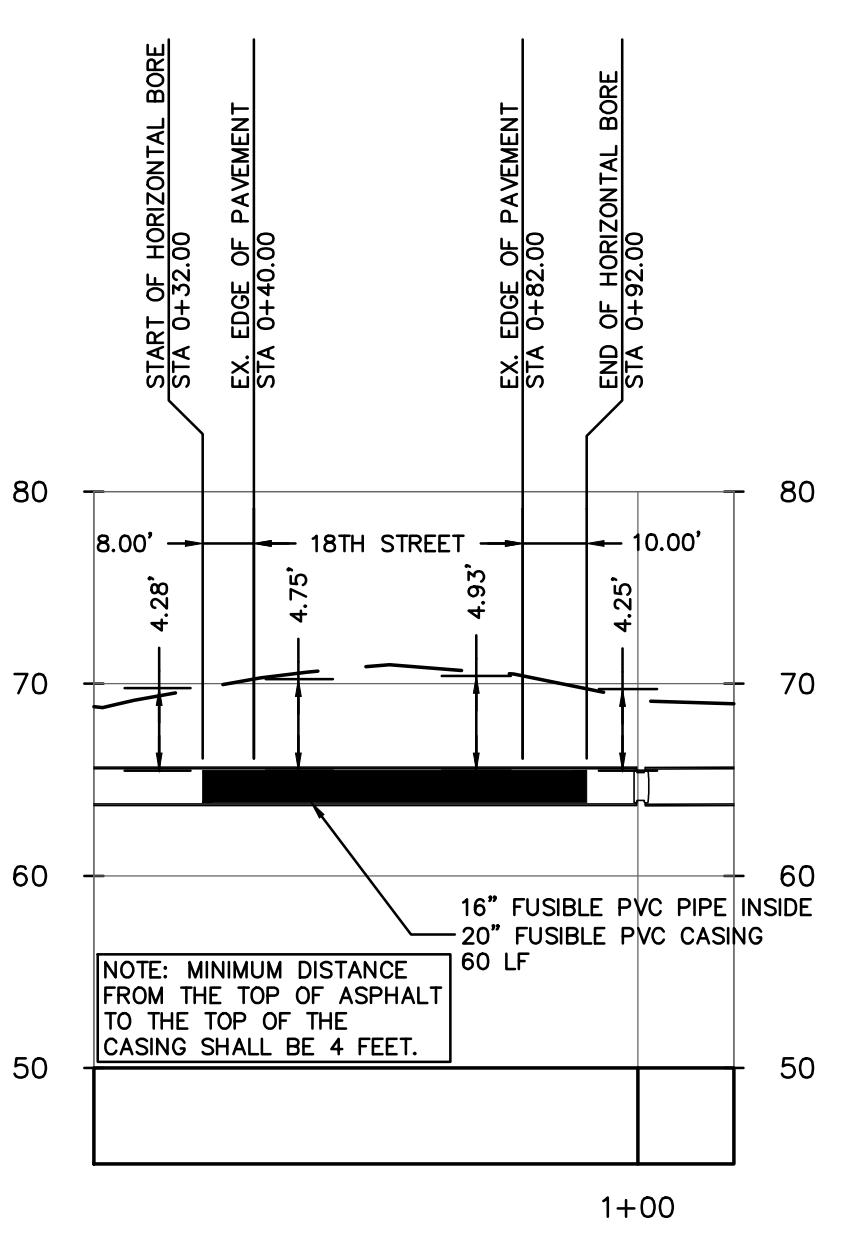
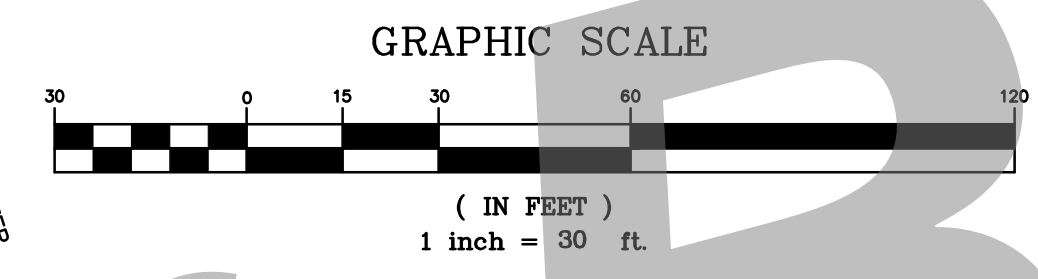
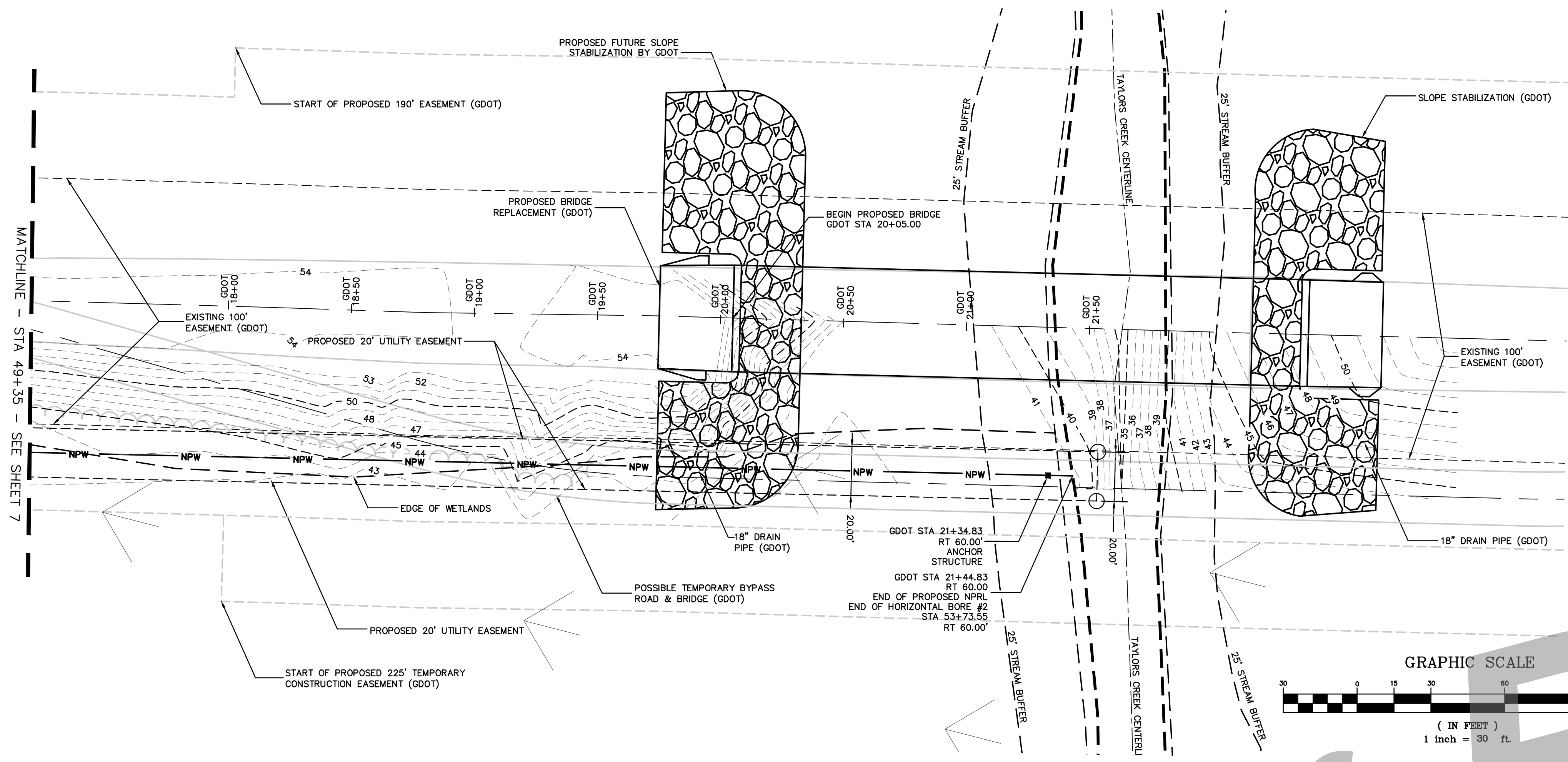
SIMONTON ENGINEERING



NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

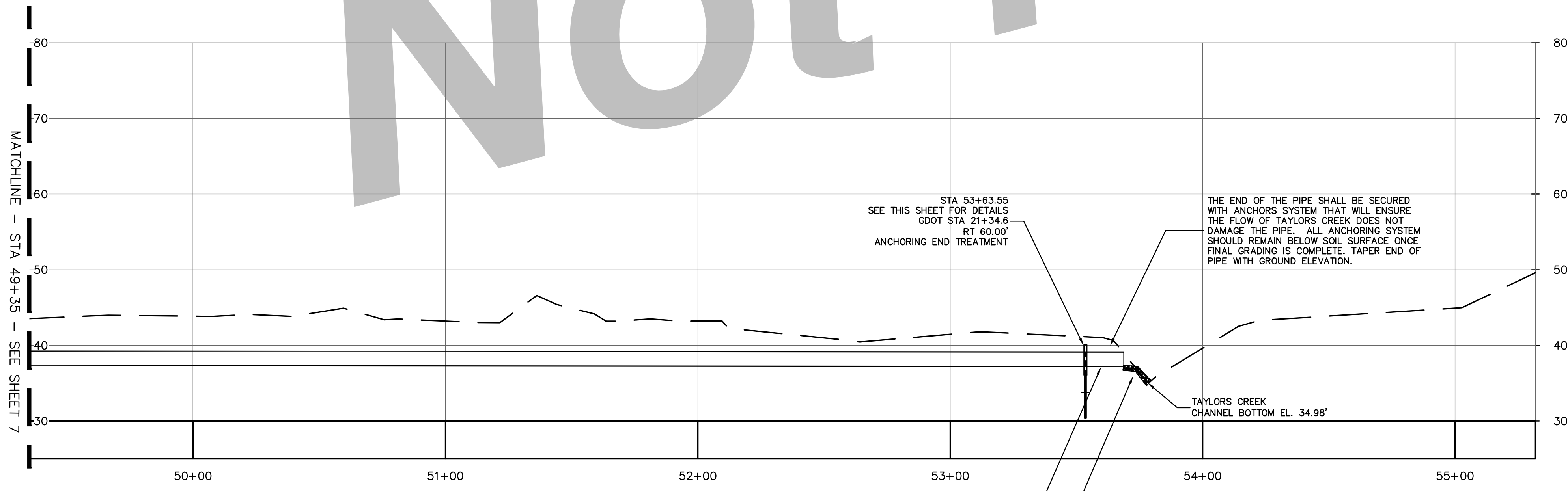
Plan & Profile

DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 7

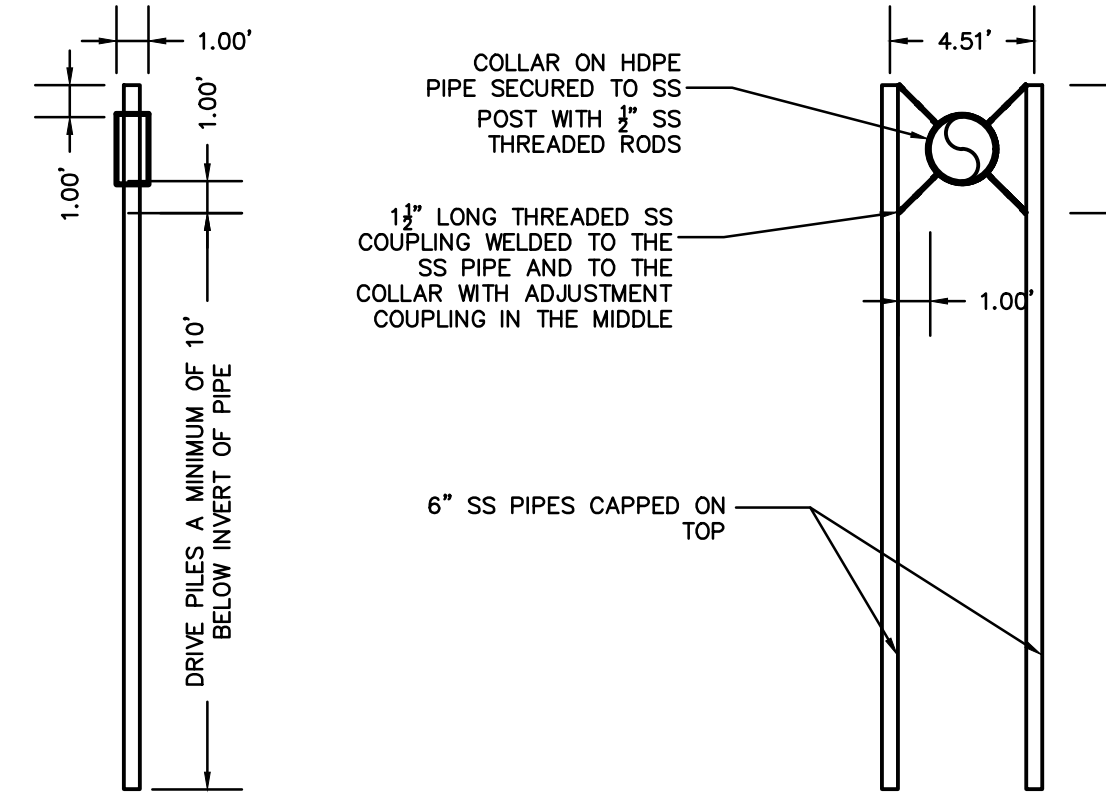


- CONSTRUCTION NOTES:
- HORIZONTAL BORE: PIPE SHALL BE FUSED AND LAID ALONG HWY 119 ON THE OPPOSITE SIDE OF TAYLORS CREEK THEN PULLED BACK THROUGH THE BORE PIT.
 - PIPELINE CONTRACTOR SHALL WORK WITH BRIDGE CONTRACTOR TO INSTALL PIPE AND MAINTAIN OPERATION OF THE PIPE DURING CONSTRUCTION OF THE BRIDGE, IF BRIDGE CONSTRUCTION HAS STARTED BEFORE BORE IS COMPLETE. IF PIPELINE IS INSTALLED FIRST, THE PIPELINE CONTRACTOR WILL COOPERATE WITH BRIDGE CONTRACTOR TO AVOID CONFLICTS AND KEEP PIPELINE IN OPERATION.

PROJECT DESCRIPTION OF ENCROACHMENT:
 HORIZONTAL BORE #2: THE HORIZONTAL #2 WILL BEGIN AT PIPELINE STATION 41+50 AND CONTINUE WITH THE HORIZONTAL BORE FOR 1,215 LF TO TAYLORS CREEK. THE BORE WILL INTERCEPT TAYLORS CREEK AT AN ANGLE OF APPROXIMATELY 90°. THE FUSED JOINT PIPE WILL THEN BE ASSEMBLED AND PREPARED FOR THE PULL BACK ON THE SHOULDER OF HWY 119. THE PIPE WILL BE CONNECTED TO THE CUTTER HEAD AND WILL BE PULLED BACK THROUGH THE BORED HOLE ENLARGING IT TO ACCEPT THE 24" PIPE. THE CUTTER DEBRI (MUD) WILL BE COLLECTED AT THE ORIGINAL ENTRY POINT (STA 41+50) ON AN UPLAND SITE WHERE IT WILL BE COLLECTED THEN TRANSPORTED TO A LANDFILL FOR DISPOSAL. ONCE COMPLETE THEN TWO STAINLESS STEEL POLES WILL BE DRIVEN INTO THE SUBGRADE APPROXIMATELY 20' ATTACHED TO THE SS RING AROUND THE BORED PIPE AS PER THE DETAIL THIS SHEET. RIP RAP WILL THEN BE PLACED AT THE OUTLET FOR EROSION PROTECTION OF THE STREAM BANK. NO BUFFER VARIANCE WILL BE REQUIRED FOR THIS ACTIVITY.



HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 10'

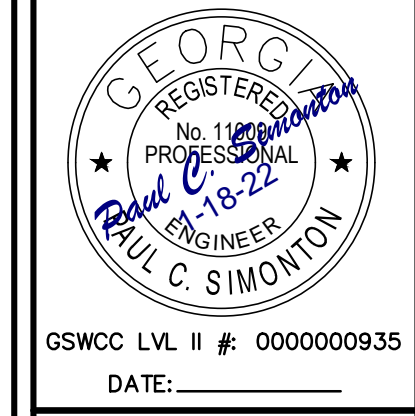


END TREATMENT DETAIL
 SCALE: 1" = 6'

DRAWING COMPLETED BY: _____

REVISED: 02-25-2020 TEB (GDOT) COMMENTS
 12-20-2020 TO UPDATE ESMFC COMMENTS
 2-05-2021 REARATION STRUCTURE OUT OF FLOOD DWG
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON ENGINEERING. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THIS DOCUMENT. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE USE OF THE PROFESSIONAL ENGINEER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER WITHOUT PERMISSION OF A SIGNED AND SEALED DOCUMENT. SIMONTON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STATED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY OF THIS DRAWING SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C. SIMONTON & ASSOCIATES, INC.



OSWCC LVL. II # 0000000935
 DATE: _____

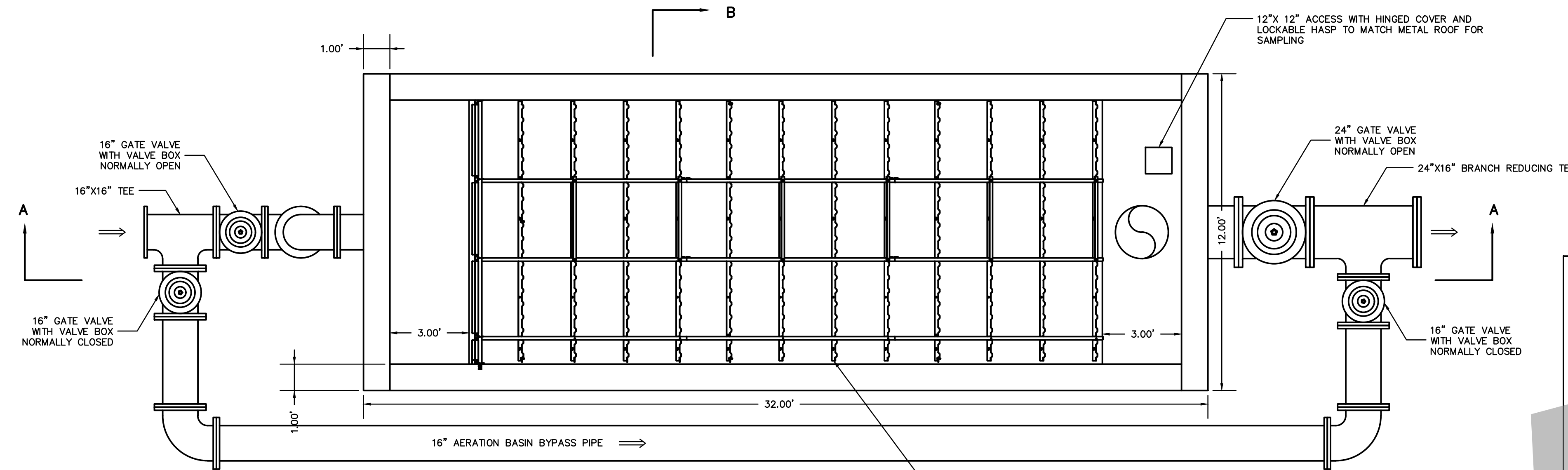
1050 PARKSIDE COMMONS
 SUITE 101
 GREENSBORO, GA 30642
 TEL: (706) 454-0870
 www.simontonengineering.com

SIMONTON ENGINEERING

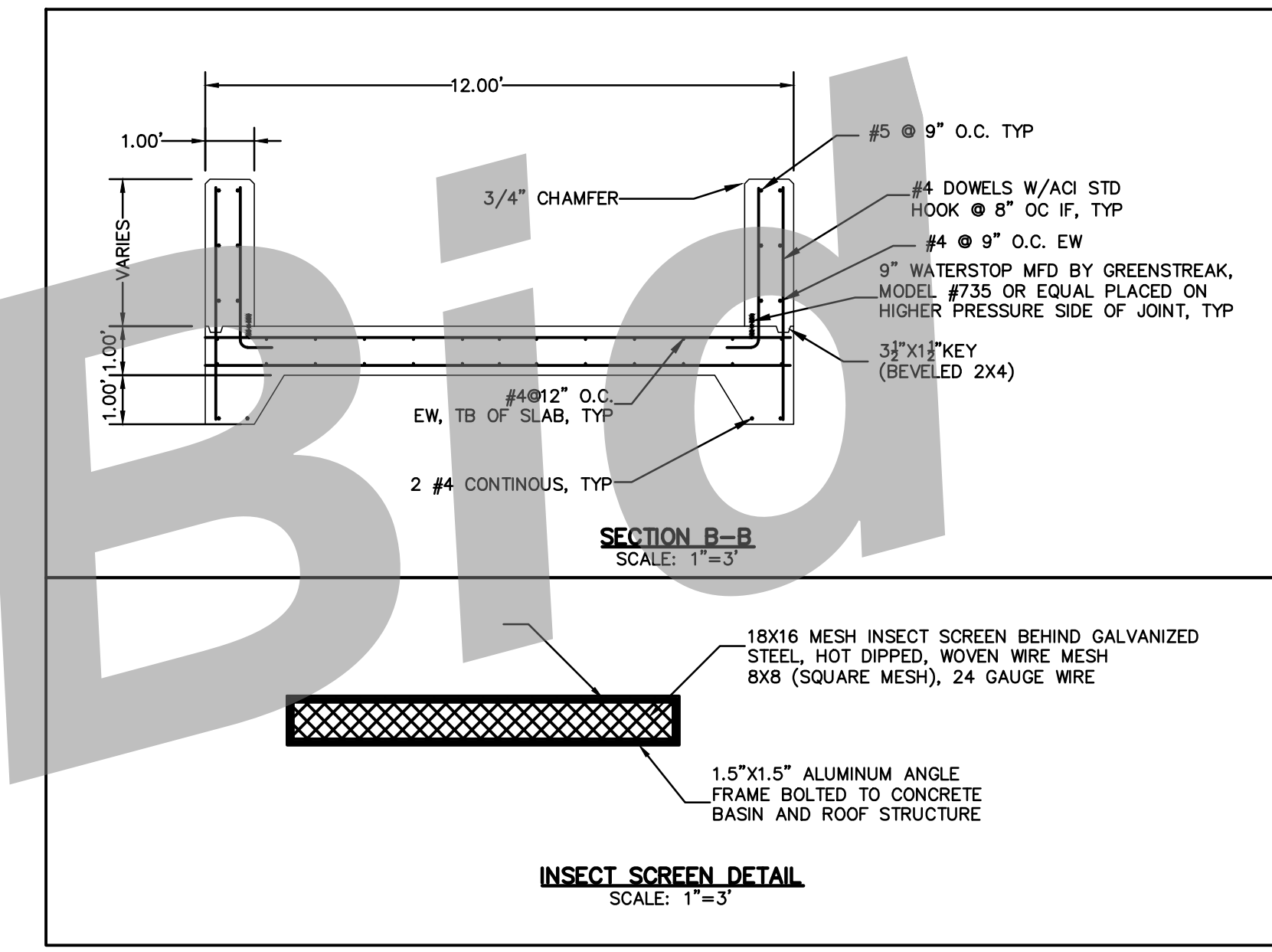
NPRL for
 The City of Hinesville
 Hinesville
 Liberty County, Georgia

Plan & Profile

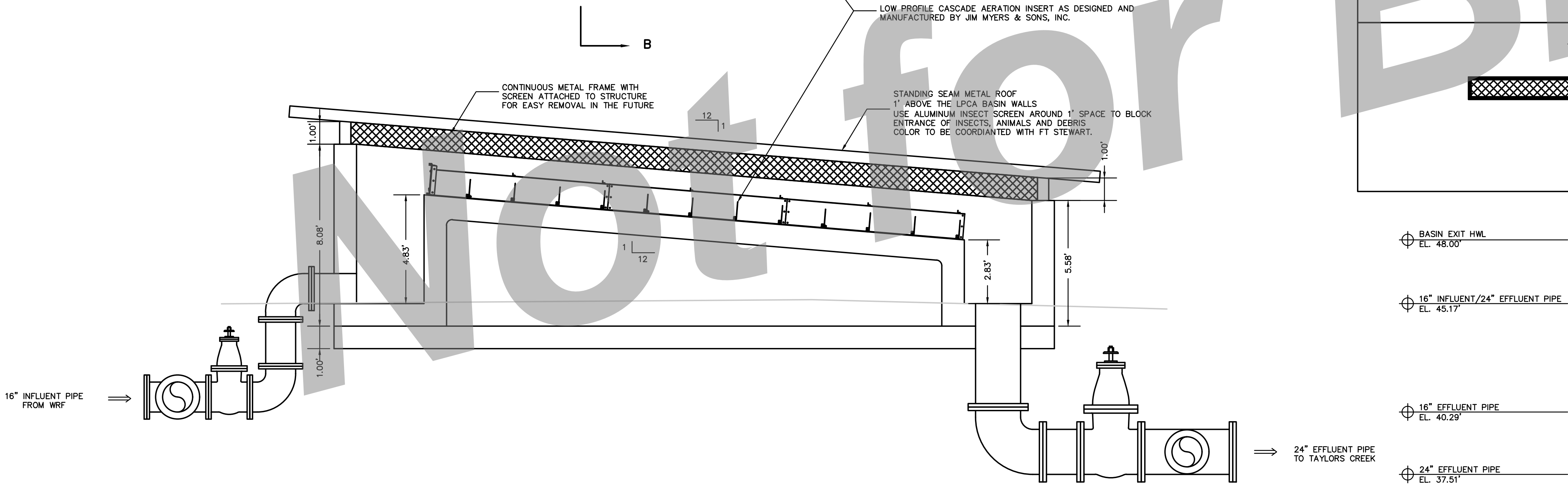
DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 8



LOW PROFILE CASCADE AERATOR -- PLAN
1" = 3'



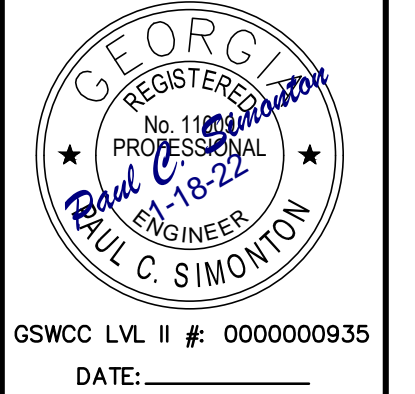
SECTION B-B
SCALE: 1" = 3'



LOW PROFILE CASCADE AERATOR -- SECTION A-A
1" = 3'

- ⊕ BASIN EXIT HWL
EL. 48.00'
- ⊕ 16" INFLUENT / 24" EFFLUENT PIPE
EL. 45.17'
- ⊕ 16" EFFLUENT PIPE
EL. 40.29'
- ⊕ 24" EFFLUENT PIPE
EL. 37.51'

DRAWING COMPLETED BY: _____
 REVISED: 02-21-2020 PER URBAN DESIGN COMMENTS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REAERATION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED AND IS NOT TO BE USED, ALTERED OR STATED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.P.C. SIMONTON & ASSOCIATES, INC.

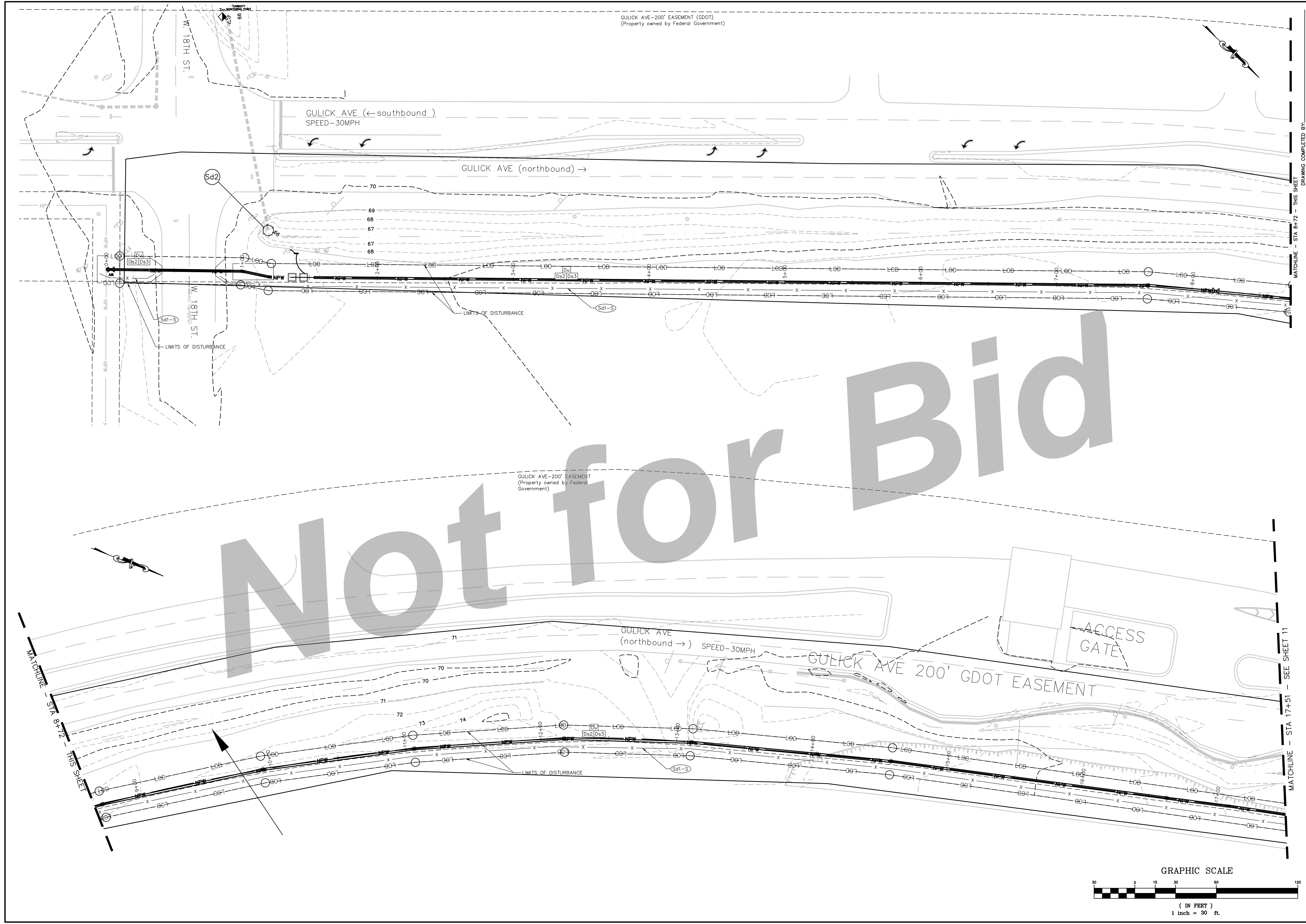


GSWC LV. II #: 000000935
 DATE: _____
 1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (769) 454-0870
 www.simontonengineering.com



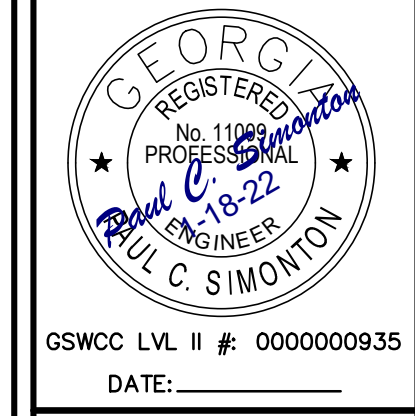
NPRL
 for
 The City of Hinesville
 Hinesville
 Liberty County, Georgia

Low Profile Cascade
 Aerator Detail
 DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 9

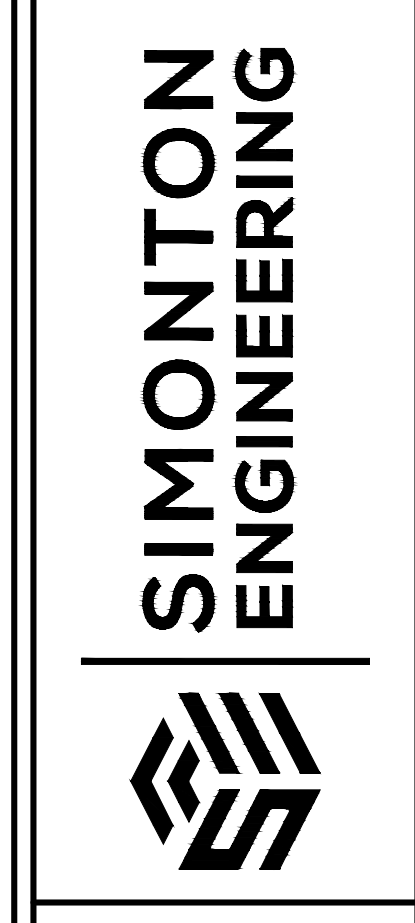


Not for Bid

DRAWING COMPLETED BY: _____
 MATCHLINE - STA 84+72 - THIS SHEET
 MATCHLINE - STA 17+51 - SEE SHEET 11
 REVISED: 02-25-2020 PER GDOT COMMENTS
 12-20-2020 TO UPDATE ESRFC COMMENTS
 2-05-2021 REAGRATION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. ANY REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT, IN ANY MANNER WITHOUT PERMISSION ON A SIGNED AND SEALED INSTRUMENT OF SERVICE, IS PROHIBITED. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STATED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY OF THIS DRAWING SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 GUY F. C. SIMONTON & ASSOCIATES, INC.

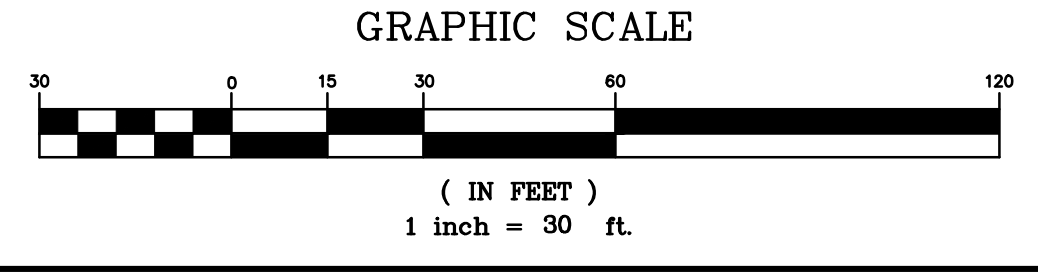


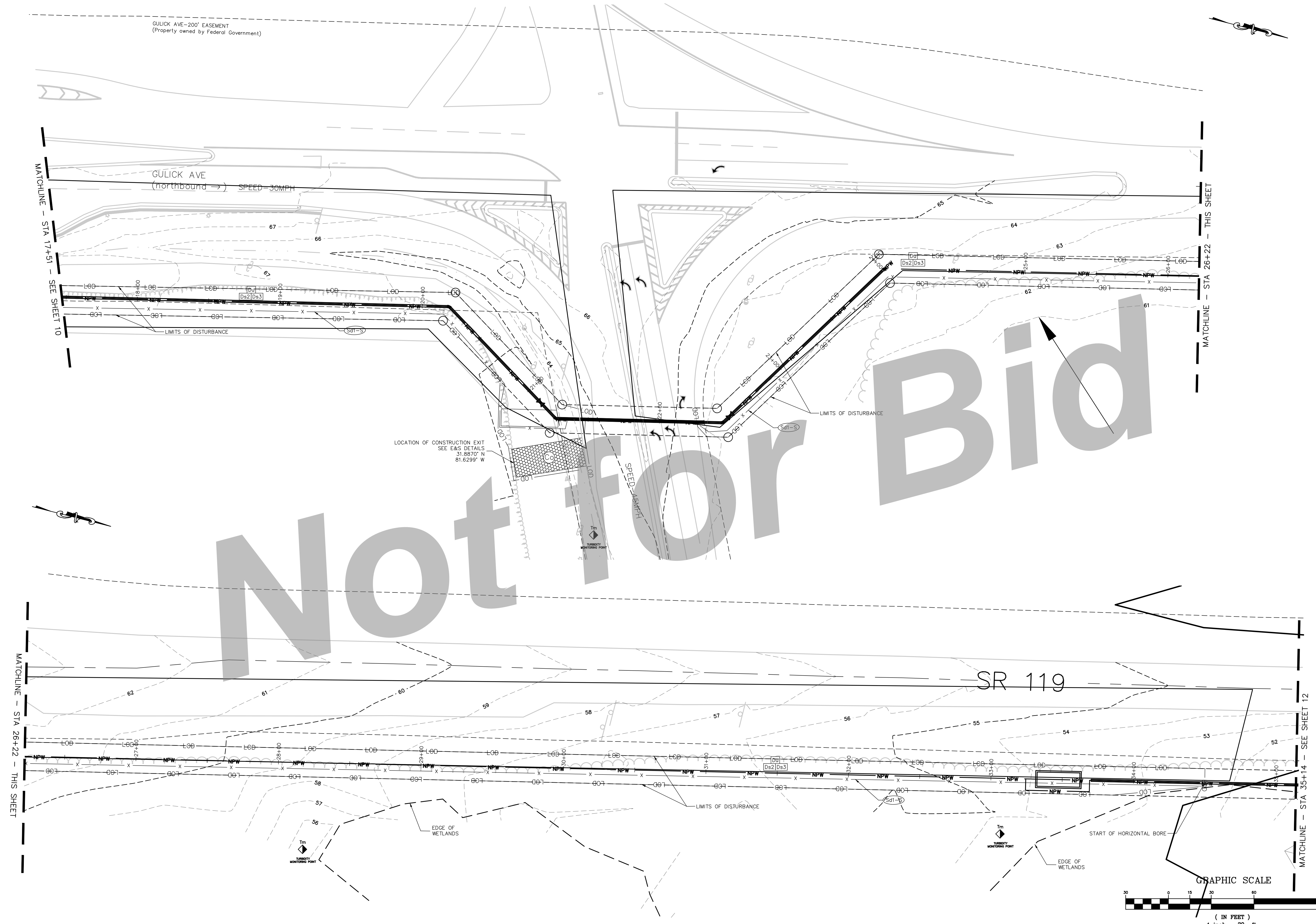
CSWCC LVL II # 0000000935
 DATE: _____
 1050 PARKSIDE COMMONS
 SUITE 101
 GREENSBORO, GA 30642
 TEL: (706) 454-0870
 www.simontonengineering.com



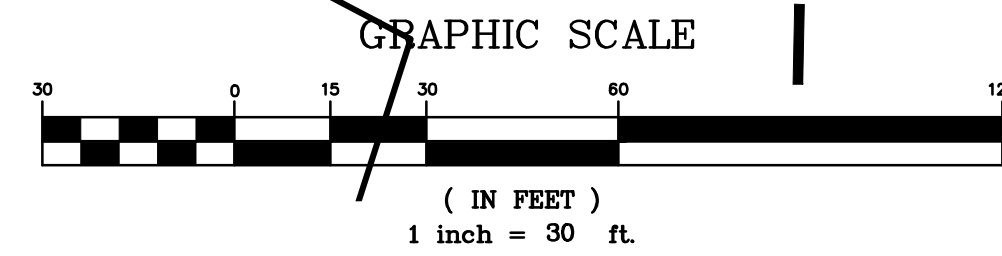
NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

E&S Plan
 DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 10





Not for Bid



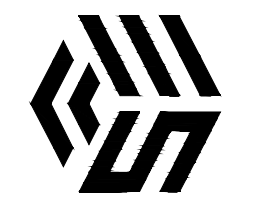
DRAWING COMPLETED BY: _____
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMUNTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMUNTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE USE OF THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PROJECT. SIMUNTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 C.P.C. SIMUNTON & ASSOCIATES, INC.



GSWCC LV. II # 0000000935
 DATE: _____

1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (769) 454-0870
 www.simontonengineering.com

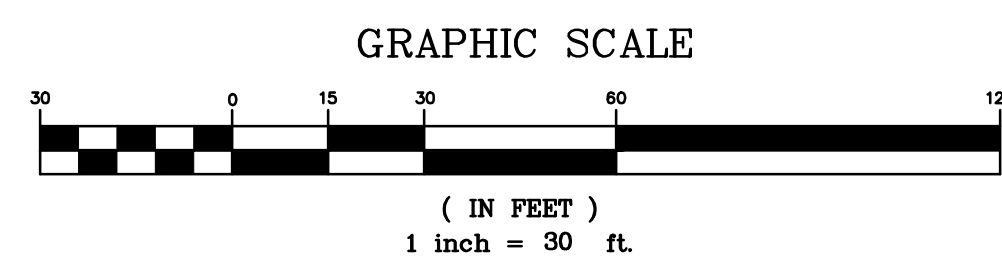
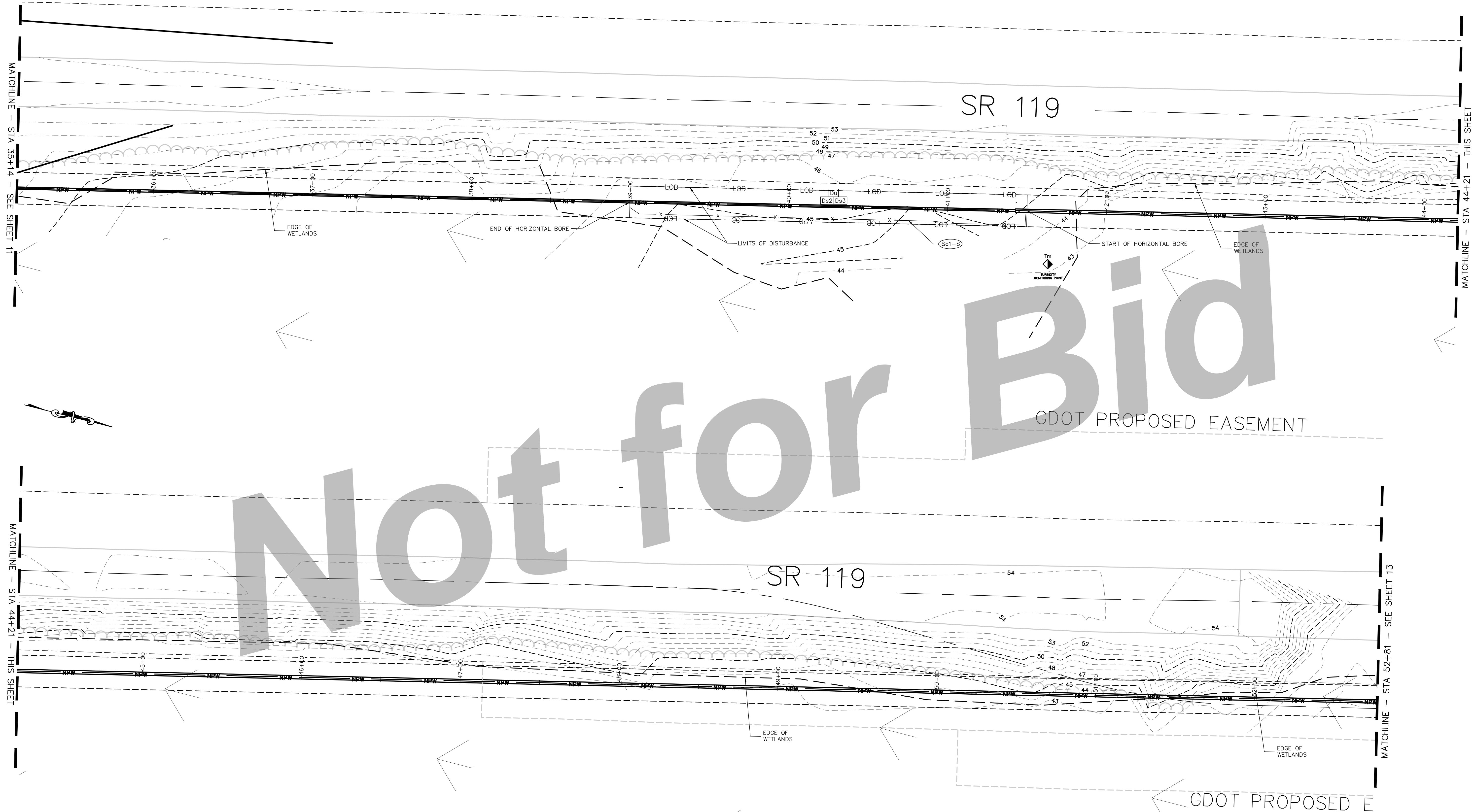
**SIMUNTON
 ENGINEERING**



NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

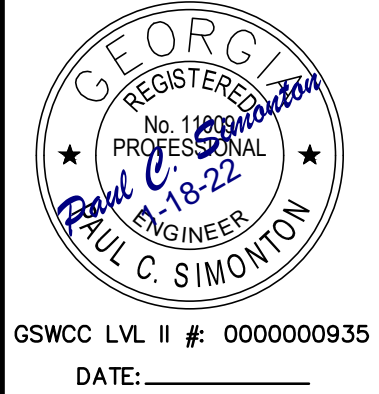
E&S Plan

DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 11



DRAWING COMPLETED BY:

REVISED: 02-27-2020 PER URBAN DESIGN DETAILS
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE OUT OF FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF P. C. SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF P. C. SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE USE OF THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PROJECT. P. C. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 P. C. SIMONTON & ASSOCIATES, INC.



GSWCC LV. II # 0000000935
 DATE:

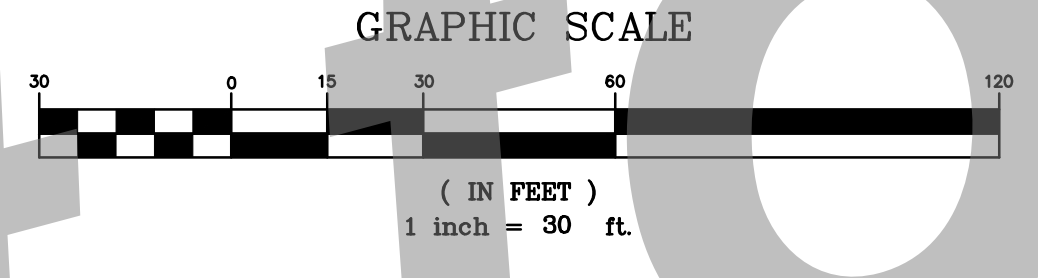
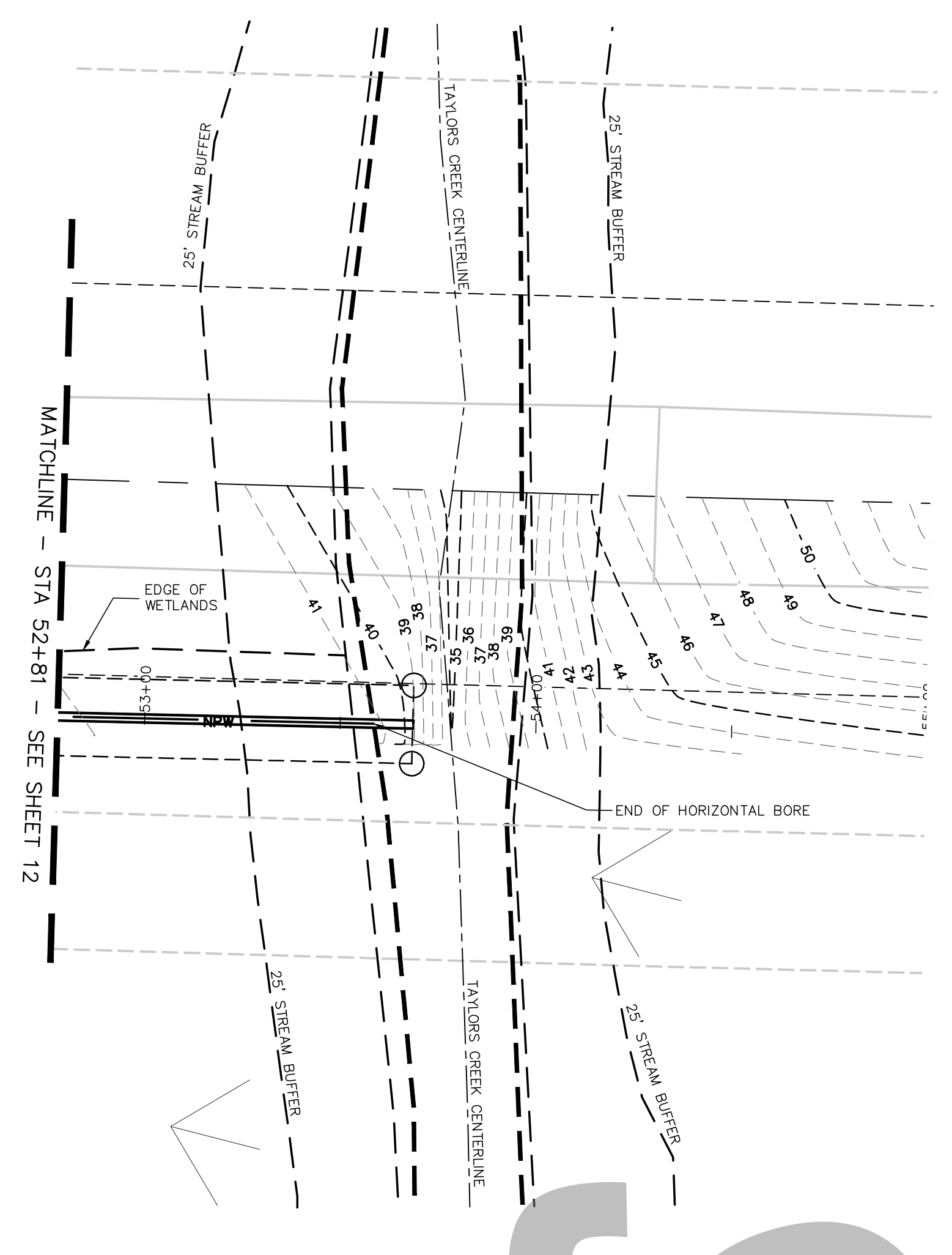
1050 PARKSIDE COMMONS
 SUITE 100
 GREENSBORO, GA 30642
 TEL: (706) 454-0870
 www.simontonengineering.com

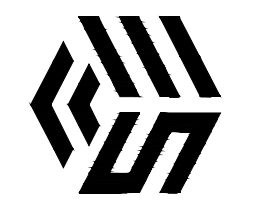



NPRL
 for
 The City of Hinesville
 Hinesville
 Liberty County, Georgia

E&S Plan
 DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 12

Not for Bid

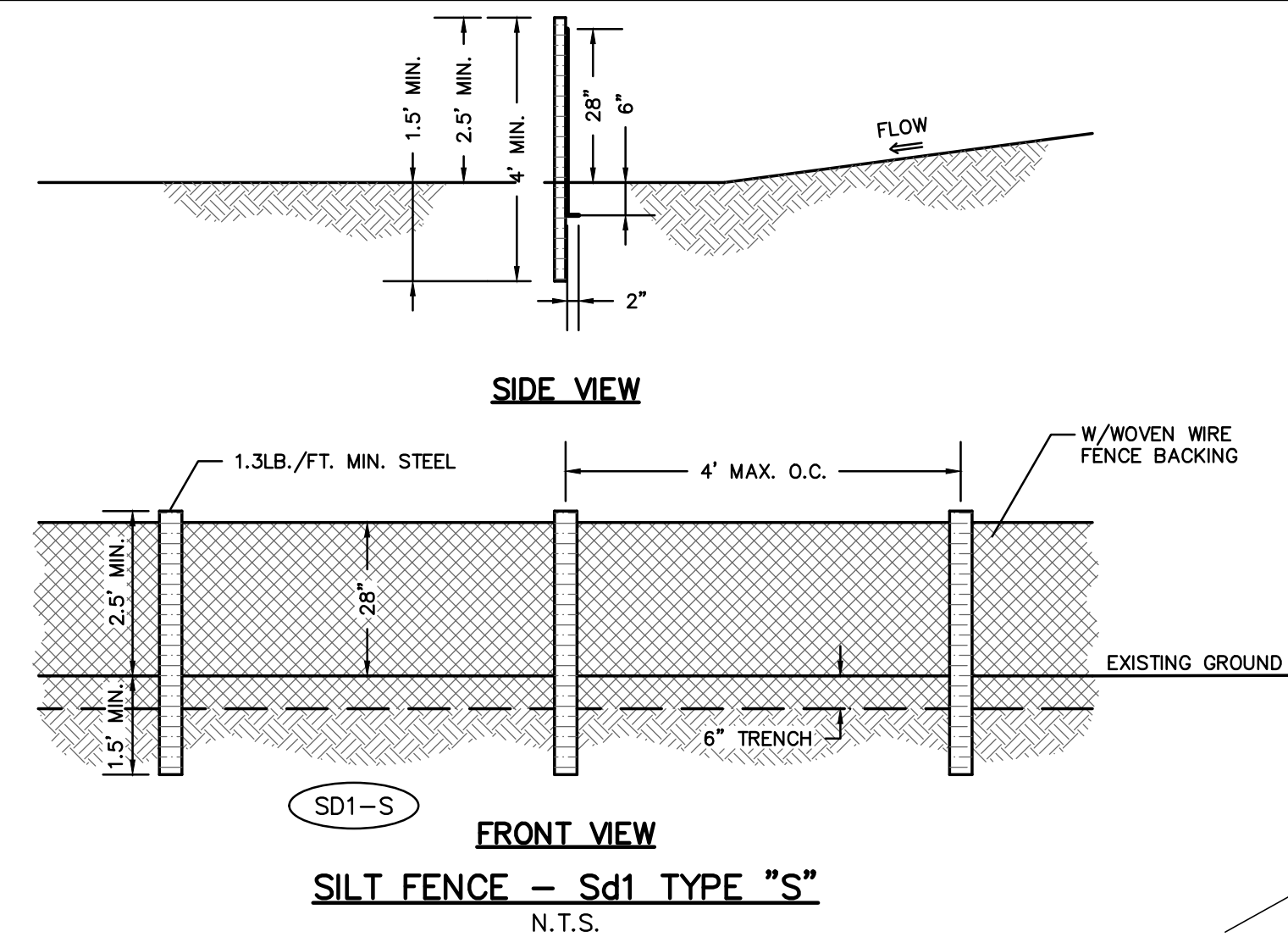


<p>E&S Plan</p> <p>DATE: JUNE 9, 2020</p> <p>FILE NO: 2017-100PRJ</p> <p>SHEET: 13</p>	<p>NPRL for The City of Hinesville Hinesville Liberty County, Georgia</p>	 <p>SIMONTON ENGINEERING</p>	<p>1050 PARKSIDE COMMONS GREENSBORO, GA 30642 TEL: (706) 454-0870 www.simontonengineering.com</p>	<p>GSWCC LV. II # 0000000935 DATE:</p>		<p>DRAWING COMPLETED BY: _____</p> <p>REVISED: 02-21-2020 PER URBAN DESIGN DETAILS</p> <p>12-20-2020 TO UPDATE ES&PC COMMENTS</p> <p>2-05-2021 REARATION STRUCTURE OUT OF FLOOD PLAN</p> <p>3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG</p> <p><small>THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE USE OF THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PROJECT. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.</small></p>
--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	--------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

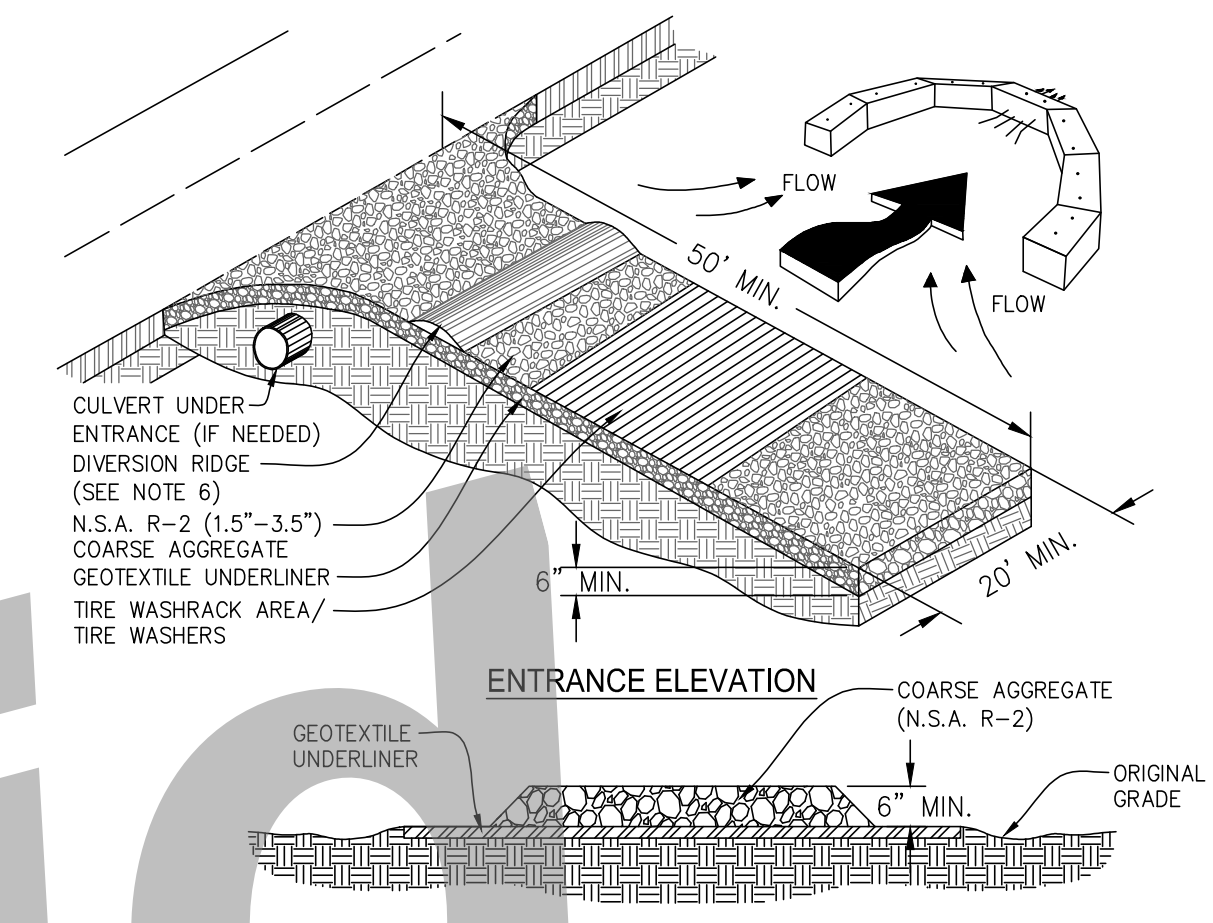
Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE 1000 S.F.	PLANTING DATES BY RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS *												SPECIFICATIONS		
			J	F	M	A	M	J	J	A	S	O	N	D			
BAHIA, PENSACOLA ALONE OR WITH TEMP. COVER W/ OTHER PERENNIALS	60 LBS 1.4 LB 30 LBS 0.7 LB	P C															166,000 SEED PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
BAHIA, WILMINGTON ALONE OR WITH TEMP. COVER WITH OTHER PERENNIALS	60 LBS 1.4 LB 30 LBS 0.7 LB	M-L P															SAME AS ABOVE
BERMUDA, COMMON HULLED SEED ALONE WITH OTHER PERENNIALS	10 LBS. 0.2 LB. 6 LBS. 0.1 LB.	P C															1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON UNHULLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 0.2 LB. 6 LBS. 0.1 LB.	P C															PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRIGS COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, TIFT 44	40 CU. FT. 0.9 CU.FT. OR SOD PLUGS 3' X 3'	M-L P C C															A CUBIC FT. CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATELY 800 SPRIGS. SAME AS ABOVE.
CENTPEDE	BLOCK SOD ONLY	P C															SOUTHERN COASTAL PLAIN ONLY. DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY EST. DO NOT PLANT NEAR PARTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
CROWNVELTCH WITH WINTER ANNUALS OR COOL; SEASON GRASSES	15 LBS. 0.3 LB.	M-L P															100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. ATTRACTIVE ROSE, PINK AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX WITH 15 POUNDS OF RYE. INOCULATE SEED WITH M INOCULATE. USE FROM NORT ATLANTA AND NORTHWARD.
FESCUE, TALL ALONE WITH OTHER PERENNIALS	50 LBS. 1.1 LB. 30 LBS. 0.7 LB.	M-L P															227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVELTCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTING. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
KUDZU PLANTS OR CROWNS	3'-7' APART	ALL															RAPID AND VIGOROUS GROWTH. EXCELLENT IN GULLY EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE.
LESPEDEZA, SERICEA SCARIFIED	60 LBS. 1.4 LB.	M-L P C															350,000 SEED PER POUND. WIDELY ADAPTED LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY EST. EXCELLENT ON ROADSIDE. INOCULANT SEED WITH EL INOCULANT.
LESPEDEZA, UNSCARIFIED	75 LBS. 1.7 LB.	M-L P C															MIX WITH TALL FESCUE OR WINTER ANNUALS CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, AMBROA VIRGATA OR APALAW SCARIFIED	60 LBS. 1.4 LB.	M-L P C															300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGEOUS IN URBAN AREAS. SPREADING-TYPE GROWTH. NEW GROWTH HAS BRONZE COLORATION. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOD STANDS. INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, UNSCARIFIED	75 LBS. 1.7 LB.	M-L P C															MIX WITH TALL FESCUE OR WINTER ANNUALS CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, SHRUB	3'X3'	M-L P C															PROVIDES WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 0.1 LB. 2 LBS. 0.05 LB.	M-L P C															1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADSIDE.
MAIDENCANE SPRIGS	2' X 3' SPAACING	ALL															FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVERBANKS AND SHORELINES.
PANICGRASS, ATLANTIC COASTAL	20 LBS. 0.5 LB.	P C															GROWS WELL ON COASTAL SAND DUNES, BODROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LEPEDEZA EXCEPT ON SAND DUNES.
REED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 1.1 LB. 30 LBS. 0.7 LB.	M-L P															GROWS SIMILAR TO TALL FESCUE
SUNFLOWER, 'AZTEC' MAXIMILLIAN	10 LBS. 0.2 LB.	M-L P C															227,000 SEED PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.
SWITCHGRASS	40 LBS. 0.9 LB.	M-L P C															STREAMBANKS

* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)



CRUSHED STONE CONSTRUCTION EXIT



- NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20".
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (OVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRES WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CONSTRUCTION EXIT

Du DUST CONTROL ON DISTURBED AREAS

METHODS & MATERIALS

A. TEMPORARY METHODS

A.A. MULCHES. SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION Tgg - TACKIFIERS. RESINS SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

A.B. VEGETATIVE COVER. SEE SPECIFICATION Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

A.C. SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO SPECIFICATION Tgg - TACKIFIERS.

A.D. TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART. SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.

A.E. IRRIGATION. THIS IS GENERAL DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

A.F. BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, GRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

A.G. CALCIUM CHLORIDE. APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS

B.A. PERMANENT VEGETATION. SEE SPECIFICATION Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

B.B. TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE SPECIFICATION Tg - TOPSOILING.

B.C. STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr - CONSTRUCTION ROAD STABILIZATION.

Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES (1) PER ACRE 1000 Sq.Ft.	PLANTING DATES BY RESOURCE AREAS (3)	REMARKS
BARLEY ALONE IN MIXTURES	3 bu (144 lbs.) 1/2 bu (24 lbs.)	M-L P C	14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.
LESPEDEZA, ANNUAL ALONE IN MIXTURES	40 lbs. 10 lbs.	M-L P C	200,000 SEED PER POUND. MAY VOLUNTIER FOR SEVERAL YEARS. USE UNOULANT EL.
LOVEGRASS, WEEPING ALONE IN MIXTURES	4 lbs. 2 lbs.	M-L P C	1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
OATS ALONE IN MIXTURES	4 bu (128 lbs.) 1 bu (32 lbs.)	M-L P C	13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
RYE ALONE IN MIXTURES	3 bu (168 lbs.) 1/2 bu (28 lbs.)	M-L P C	18,000 SEED PER POUND. QUICK COVER. BROUGH TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL ALONE IN MIXTURES	40 lbs. 10 lbs.	M-L P C	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE IN MIXTURES	60 lbs. 1.4 lbs.	M-L P C	55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE ALONE IN MIXTURES	3 bu (144 lbs.) 1/2 bu (24 lbs.)	M-L P C	USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT ALONE IN MIXTURES	3 bu (180 lbs.) 1/2 bu (30 lbs.)	M-L P C	15,000 SEED PER POUND. WINTERHARDY.

(1) BROADCAST RATES ARE IN PURE LIVE SEED (PLS)
 (2) M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND VALLEYS MLRA'S
 P REPRESENTS THE SOUTHERN PIEDMONT MLRA
 C REPRESENTS SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S
 (3) DARK LINES INDICATE OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

FERTILIZER AND LIME REQUIREMENTS FOR PERMANENT VEGETATION (Ds3)

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	First	6-12-12	1500	50-100	1
	Second Maintenance	6-12-12 10-10-10	1000 400	30	
Cool Season Grasses and Legumes	First	6-12-12	1500	0-50	1
	Second Maintenance	6-12-12 10-10-10	1000 400	-	
Warm Season Grasses	First	6-12-12	1500	50-100	1
	Second Maintenance	6-12-12 10-10-10	800 400	30	
Warm Season Grasses and Legumes	First	6-12-12	1500	0-50	1
	Second Maintenance	6-12-12 10-10-10	1000 400	-	

Ds3 MULCH NOTES:

- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% TO 100% SOIL COVER.
1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED AND SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
 2. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.

FERTILIZER AND LIME REQUIREMENTS FOR TEMPORARY VEGETATION (Ds2)

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	First	6-12-12	1500	50-100	1
	Second Maintenance	6-12-12 10-10-10	1000 400	30	
Cool Season Grasses and Legumes	First	6-12-12	1500	0-50	1
	Second Maintenance	6-12-12 10-10-10	1000 400	-	
Temporary Cover Crops Seeded Alone	First	10-10-10	500	30	1
Warm Season Grasses	First	6-12-12	1500	50-100	1
	Second Maintenance	6-12-12 10-10-10	800 400	30	

ADDITIONAL EROSION CONTROL NOTES:

1. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF A SEDIMENT BASIN ON THIS PROJECT IS NOT NECESSARY OR FEASIBLE. CONTRACTOR/OWNER WILL NOT HAVE ADEQUATE AREA ON THE PROJECT TO INSTALL A SEDIMENT BASIN. THE SEDIMENT BASIN INSTALLATION WOULD CREATE MORE LAND DISTURBANCE THAN THE PROPOSED PROJECT. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF THE APPROPRIATE BMPs, AND PROPER MAINTENANCE, SHOULD PROVIDE SUFFICIENT SEDIMENT STORAGE.
2. THIS ES&C PLAN IS IN COMPLIANCE WITH WASTEWATER, SANITARY SEWER, AND SEPTIC REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
3. REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM ALONG THE SILT FENCE WHEN IT REACHES HALF FULL. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL.
4. WHEN TEMPORARY STRUCTURES HAVE SERVED THEIR INTENDED PURPOSE AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, THE STRUCTURES MUST BE REMOVED PRIOR TO FILING A NOTICE OF TERMINATION.
5. ALL WASTE GENERATED WILL BE PLACED IN A CONTAINER, BED TRUCK OR TRAILER AND REMOVED FROM THE SITE DAILY.
6. ALL BUILDING MATERIALS AND BUILDING PRODUCTS STORED ON SITE WILL BE COVERED WITH PLASTIC SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER. THESE MATERIALS INCLUDE BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIAL, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS.

DRAWING COMPLETED BY: 12-20-2020 TO UPDATE ES&C COMMENTS 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG

REVISION: 02-03-2020 PER URBAN/DRAINAGE DETAILS

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON ENGINEERING, LLC. IT MAY NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SIMONTON ENGINEERING, LLC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE DRAWING. SIMONTON ENGINEERING, LLC ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY OF THIS DRAWING SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.

P.C. SIMONTON & ASSOCIATES, INC.

1050 PARKSIDE COMMONS GREENSBORO, GA 30642 TEL: (760) 454-0870 www.simontonengineering.com

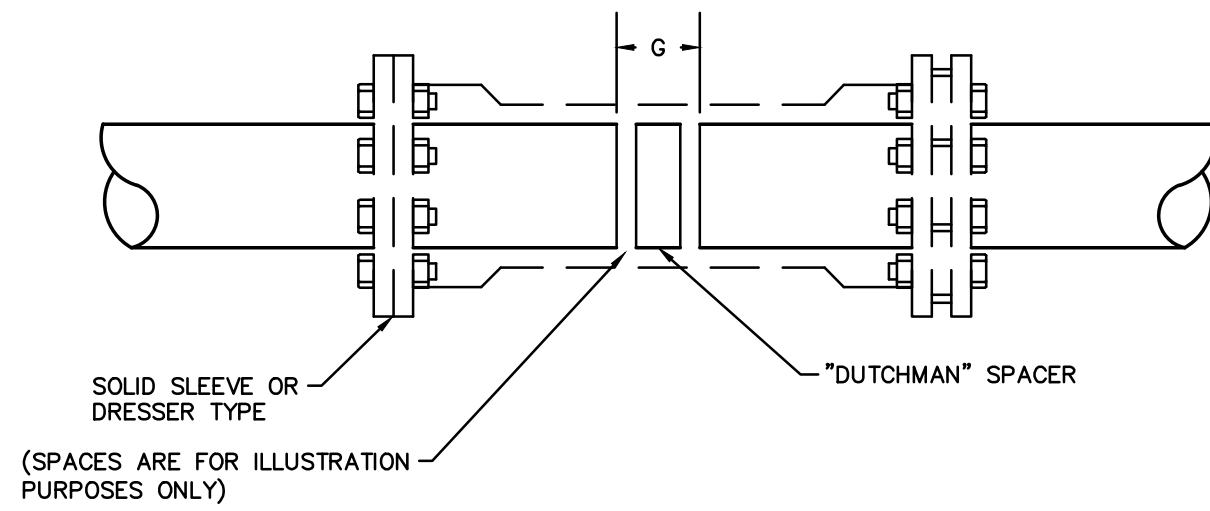
GSWC LV. II # 0000000935 DATE:

REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON 1-18-22

SIMONTON ENGINEERING

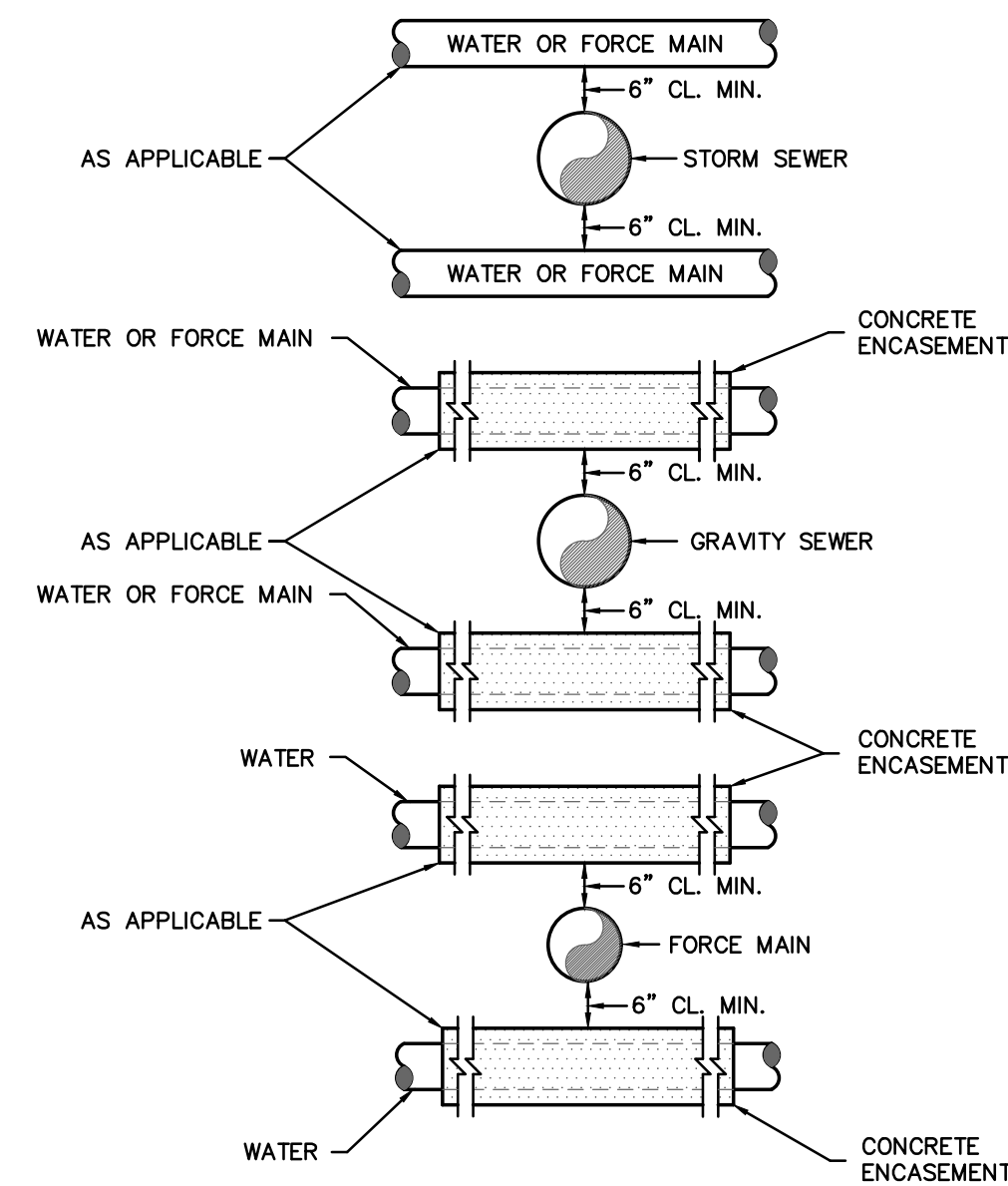
NPRL for The City of Hinesville Hinesville, Georgia Liberty County, Georgia

E&S Details DATE: JUNE 9, 2020 FILE NO: 2017-100PRJ SHEET: 15



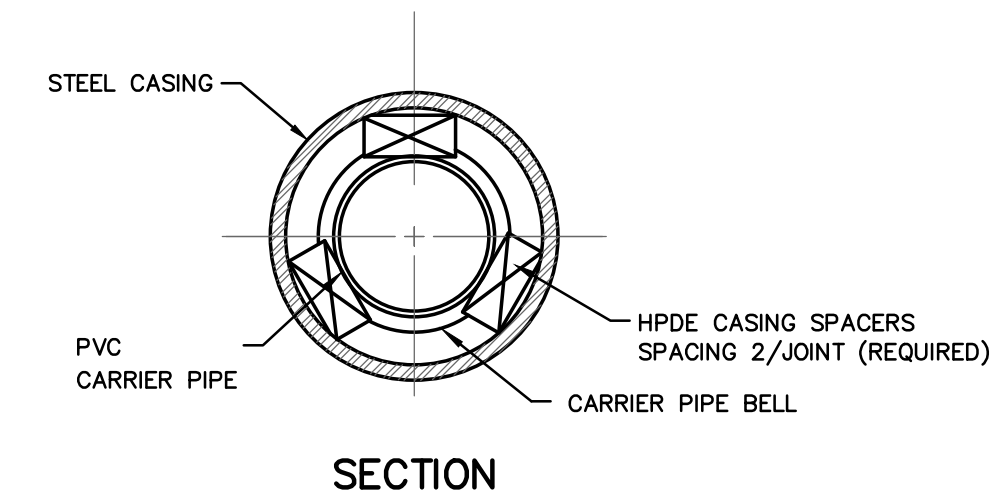
- NOTES**
- IF "G" IS GREATER THAN 1/2", AT ITS NARROWEST POINT, THEN A FULL-CIRCLE SPACER OR "DUTCHMAN" MUST BE CUT AND PLACED IN THE GAP BEFORE THE SLEEVE IS USED TO CLOSE THE JOINT.
 - THE "DUTCHMAN" SPACER SHALL BE CUT TO A WIDTH NO LESS THAN 1/4" LESS THAN THE NARROWEST WIDTH OF "G".
 - EACH PIPE SPIGOT SHALL BE MARKED TO INDICATE THE POINT WHERE THE SLEEVE WILL BE PROPERLY CENTERED OVER THE POINT.
 - "FULL-CIRCLE" REPAIR CLAMPS ARE NOT APPROVED FOR JOINING PIPE. SUCH CLAMPS ARE SPECIFICALLY DESIGNED FOR REPAIRS ONLY.
 - IF "STEEL" SLEEVE IS USED, PROPERLY COAT BEFORE BACKFILLING. SEE NOTE 5, DRWG. A-30 FOR COATING.

SLEEVE INSTALLATION DETAIL
N.T.S.

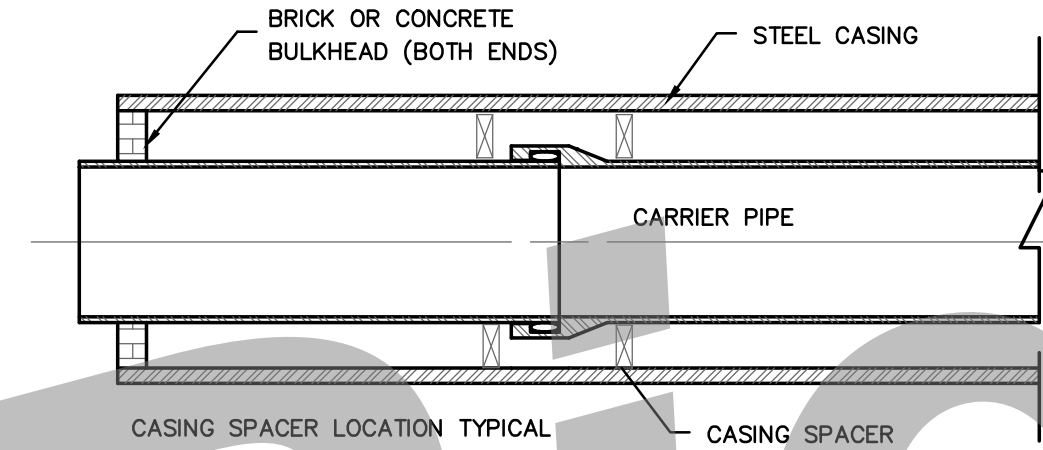


- NOTES:**
- CONCRETE ENCASEMENT TO EXTEND A MINIMUM OF 10" ON BOTH SIDES OF CROSSING.
 - FOR ELEVATION OF PIPES, SEE PLANS.
 - CONCRETE ENCASEMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

SEPERATION DETAIL
N.T.S.

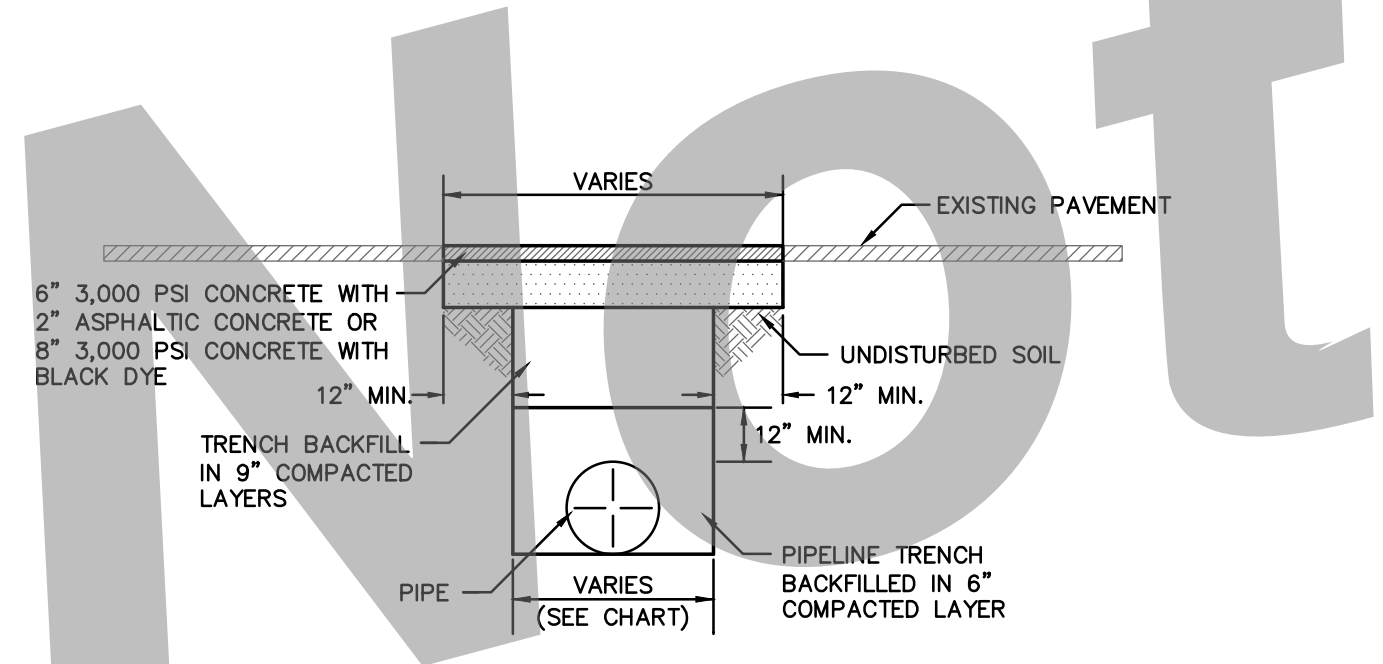


SECTION



ELEVATION

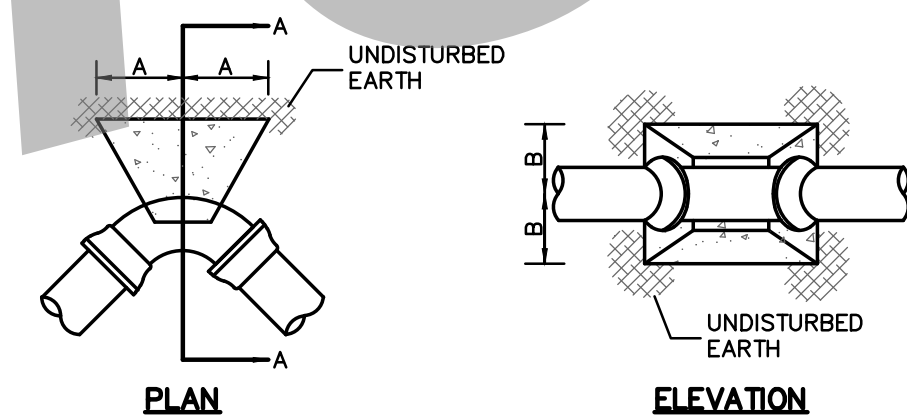
CASING DETAILS
N.T.S.



NOTE: MAXIMUM PAVEMENT WIDTH FOR CUT DEPTH OVER 6 FEET SHALL BE 8 FEET UNLESS NOTED OTHERWISE ON PLANS.

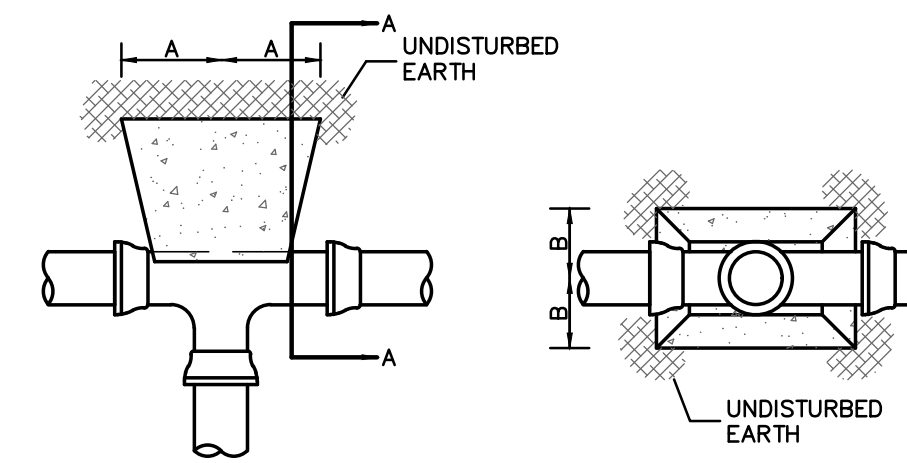
PIPE DIAMETER	MAXIMUM TRENCH WIDTH 0 - 6' CUT DEPTH	MAXIMUM PAVEMENT WIDTH 0 - 6' CUT DEPTH
6" TO 15"	16" + DIA.	40" + DIA.
18" TO 21"	20" + DIA.	44" + DIA.
24" TO 30"	24" + DIA.	48" + DIA.
33" TO 42"	36" + DIA.	60" + DIA.
48"+	36" + DIA.	60" + DIA.

PAVEMENT REMOVAL & REPLACEMENT
N.T.S.



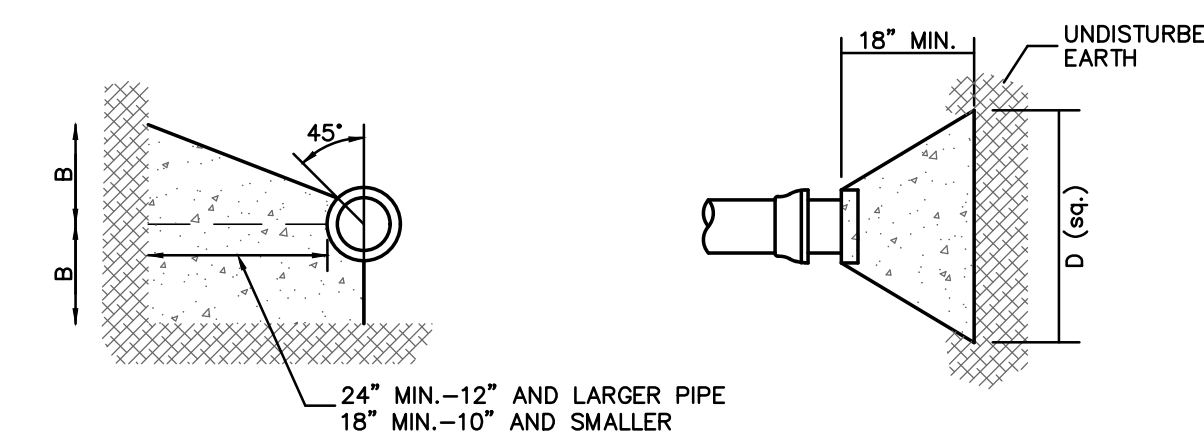
PLAN

ELEVATION



PLAN

ELEVATION



SECTION A-A

PLAN & ELEVATION

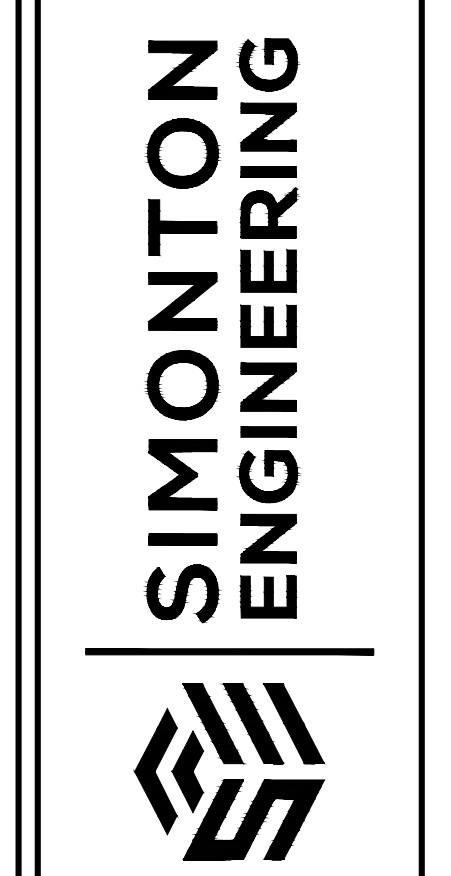
STANDARD THRUST BLOCKS FOR WATER MAIN AND FORCE MAINS
N.T.S.

TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE 1 4,000 PSF SOIL	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
TYPE 1 2,000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"	

DRAWING COMPLETED BY:
 12-20-2020 TO UPDATE ES&PC COMMENTS
 2-05-2021 REVISION STRUCTURE AREA AND FLOOD PLAN
 3-23-21 MODIFY DISTURBED AREA AND UPDATE DWG
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND REMAINS THE PROPERTY OF SIMONTON & ASSOCIATES, INC. IT MAY NOT BE COPIED, ALTERED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SIMONTON & ASSOCIATES, INC. THE INFORMATION CONTAINED HEREIN IS INTENDED FOR THE USE OF THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PROJECT. SIMONTON & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR DATA GENERATED, ALTERED OR STAKED FROM THIS DRAWING. IN THE EVENT OF A DISPUTE, HARD COPY SHALL PREVAIL OVER ANY ELECTRONIC MEDIA.
 P.C. SIMONTON & ASSOCIATES, INC.



1050 PARKSIDE COMMONS
 GREENSBORO, GA 30642
 TEL: (706) 454-0870
 www.simontonengineering.com



NPRL
 for
The City of Hinesville
 Hinesville
 Liberty County, Georgia

General Details
 DATE: JUNE 9, 2020
 FILE NO: 2017-100PRJ
 SHEET: 16