

GRANGER PARK POND IMPROVEMENTS LAGRANGE, GEORGIA

CITY OF LAGRANGE

JIM THORNTON, MAYOR
MEG KELSEY, CITY MANAGER

INDEX OF DRAWINGS

GENERAL

SHEET NO.	DRAWING TITLE	FILE NAME	REVISION	DATE
G0.01	COVER SHEET	3643206G001.DWG	A	08/28/2020

CIVIL

SHEET NO.	DRAWING TITLE	FILE NAME	REVISION	DATE
C0.21	OVERALL KEY PLAN AND LEGEND	3643206C021.DWG	A	08/28/2020
C0.41	EXISTING CONDITIONS AND DEMOLITION PLAN	3643206C041.DWG	A	08/28/2020
C0.42	EXISTING CONDITIONS AND DEMOLITION PLAN	3643206C041.DWG	A	08/28/2020
C1.01	GRADING AND DRAINAGE PLAN	3643206C101.DWG	A	08/28/2020
C1.02	GRADING AND DRAINAGE PLAN	3643206C101.DWG	A	08/28/2020
C2.01	DRAINAGE PROFILES	3643206C201.DWG	A	08/28/2020
C7.01	MISCELLANEOUS DETAILS	3643206C700.DWG	A	08/28/2020
C7.02	MISCELLANEOUS DETAILS	3643206C700.DWG	A	08/28/2020
C7.03	MISCELLANEOUS DETAILS	3643206C700.DWG	A	08/28/2020

EROSION CONTROL

SHEET NO.	DRAWING TITLE	FILE NAME	REVISION	DATE
C2.21	ESPCP COVER, DRAWING INDEX & CERTIFICATIONS	3643206C231.DWG	A	08/28/2020
C2.22	ESPCP PROJECT SPECIFIC NOTES & SAMPLING	3643206C222.DWG	A	08/28/2020
C2.23	POLLUTION PREVENTION NOTES & REQUIREMENTS	3643206C222.DWG	A	08/28/2020
C2.24	NPDES NOTES & REQUIREMENTS	3643206C222.DWG	A	08/28/2020
C2.25	TOPOGRAPHIC MAP AND DRAINAGE BASINS	3643206C225.DWG	A	08/28/2020
C2.31	INITIAL - ES&PC PLAN	3643206C231.DWG	A	08/28/2020
C2.32	INITIAL - ES&PC PLAN	3643206C231.DWG	A	08/28/2020
C2.33	INTERMEDIATE - ES&PC PLAN	3643206C233.DWG	A	08/28/2020
C2.34	INTERMEDIATE - ES&PC PLAN	3643206C233.DWG	A	08/28/2020
C2.35	FINAL - ES&PC PLAN	3643206C235.DWG	A	08/28/2020
C2.36	FINAL - ES&PC PLAN	3643206C235.DWG	A	08/28/2020
C7.31	EROSION CONTROL DETAILS	3643206C731.DWG	A	08/28/2020
C7.32	EROSION CONTROL DETAILS	3643206C731.DWG	A	08/28/2020
C7.33	EROSION CONTROL DETAILS	3643206C731.DWG	A	08/28/2020
C7.34	EROSION CONTROL DETAILS	3643206C731.DWG	A	08/28/2020
C7.35	EROSION CONTROL DETAILS	3643206C731.DWG	A	08/28/2020



VICINITY MAP
N.T.S.

PROJECT TEAM

OWNER

CITY OF LaGRANGE
200 RIDLEY AVENUE
LaGRANGE, GA 31902
706-883-2013

CONTACT: MEG KELSEY, CITY MANAGER

CIVIL ENGINEER

BARGE DESIGN SOLUTIONS
1201 FRONT AVENUE, SUITE F
COLUMBUS, GEORGIA, 31901
PHONE: (706) 321-4590
CONTACT: SCOTT THOMPSON, PE

GRANGER PARK
POND IMPROVEMENTS
LAGRANGE, GEORGIA
CITY OF LAGRANGE



OVERALL KEY PLAN AND LEGEND
 LAGRANGE STORM DRAIN SYSTEM
 GRANGER PARK
 STORMWATER IMPROVEMENTS
 LAGRANGE, GEORGIA

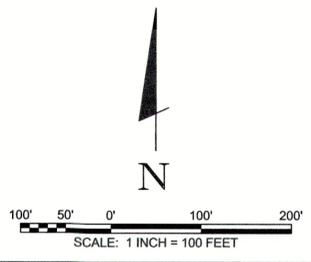
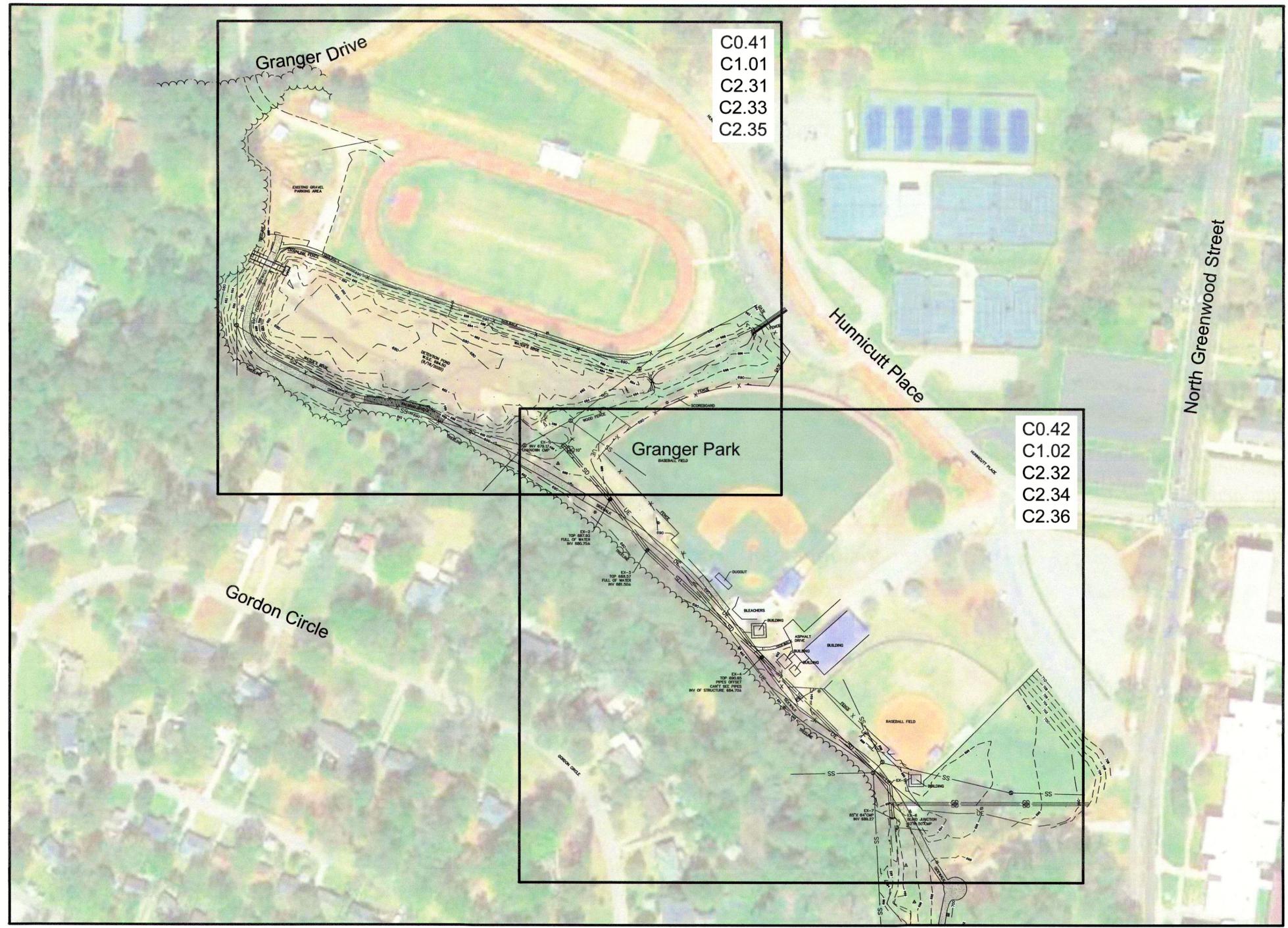
REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CST	8/28/2020	100% OWNER REVIEW

C0.21

PROJ. NO. 3643206

LEGEND:

- | | | | |
|-----------------|--------------------|------------|---|
| EXISTING | | NEW | |
| | INLET | | WEIR INLET STRUCTURE |
| | MANHOLE | | ACCESS STRUCTURE |
| | EDGE OF PAVEMENT | | STORM DRAIN PIPE |
| | FENCE | | REINFORCED CONCRETE BOX CULVERT (RCBC) |
| | STORM DRAIN | | PRECAST BOX CULVERT ENDS (GDOT STD 2535P) |
| | SANITARY SEWER | | CONCRETE SIDEWALK |
| | CONTOURS | | FENCE |
| | SANITARY MANHOLE | | |
| | LIGHT POLE | | WATER'S EDGE |
| | SIGN | | 2' INTERVAL CONTOURS |
| | SURVEY POINT | | 1' INTERVAL CONTOURS |
| | TREE | | SPOT ELEVATION |
| | TREE LINE | | STONE RIP RAP |
| | UNDER GROUND POWER | | GRAVEL SURFACE |
| | WATER'S EDGE | | CONCRETE |
| | WOOD DECKING | | |
| | CONCRETE | | |



Know what's below.
 Call before you dig.

USER: JSTHAMES
 FILE: \\corp.bwsc.net\data\Projects\36432\3643206\04_CAD\WATER\PLOT_36432060021.dwg
 SAVER: 9/11/2020
 PLOTTED: 9/15/2020



EXISTING CONDITIONS AND DEMOLITION PLAN

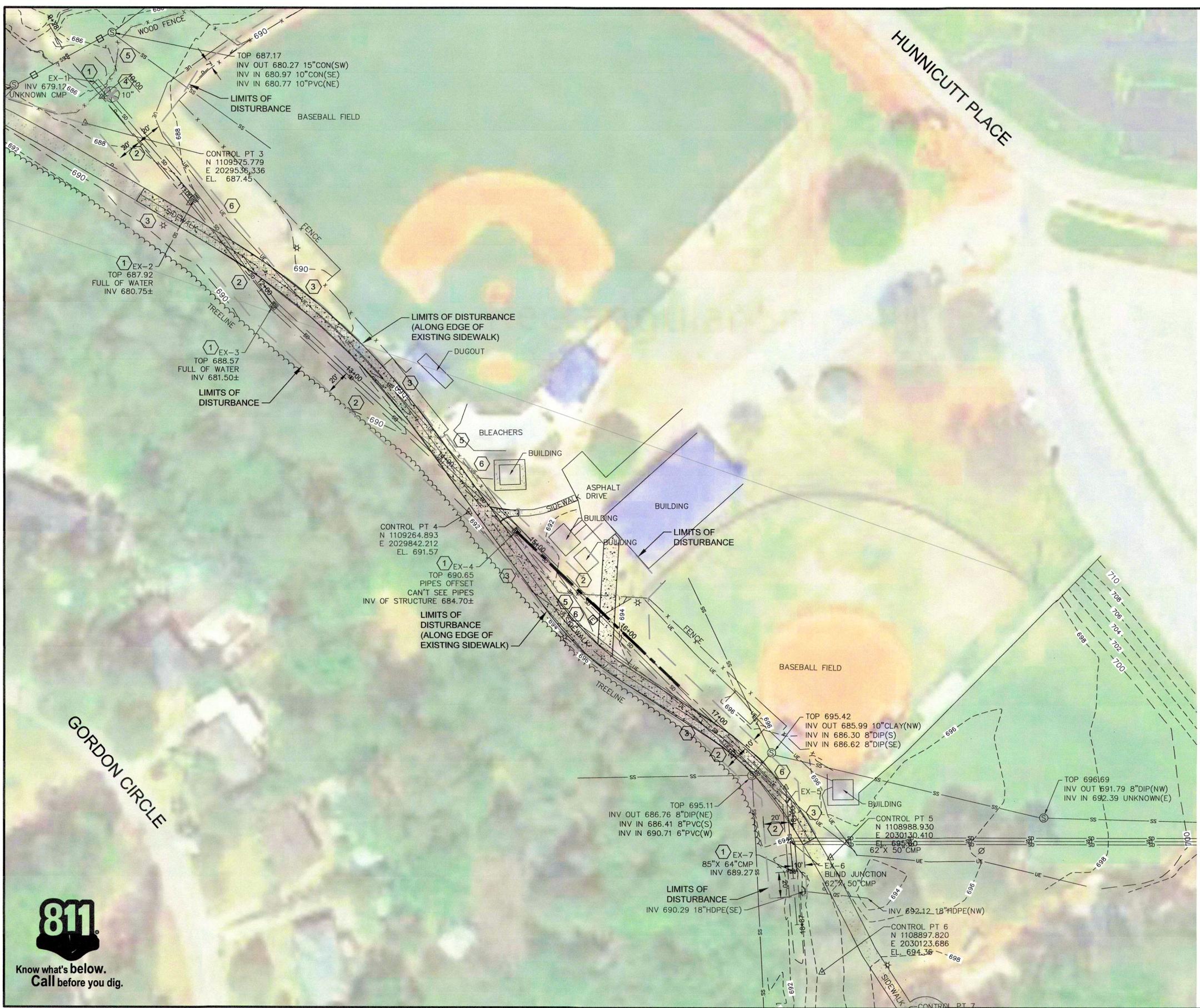
LAGRANGE STORM DRAIN SYSTEM GRANGER PARK STORMWATER IMPROVEMENTS

LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CS1	8/28/2020	90% OWNER REVIEW

C0.42

PROJ. NO. 3643206



DEMOLITION LEGEND:

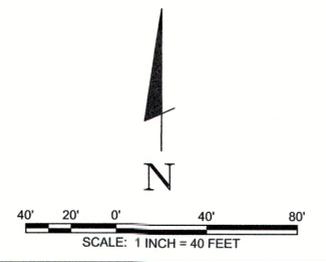
- AREA DEMO
- LINEAR DEMO
- SPOT DEMO
- LIMITS OF DISTURBANCE

DEMOLITION KEYED NOTES:

- 1 REMOVE AND DISPOSE OF EXISTING STRUCTURE.
- 2 REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE.
- 3 SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK.
- 4 REMOVE AND DISPOSE OF EXISTING TREE.
- 5 REMOVE AND REPLACE EXISTING FENCE IN KIND.
- 6 UNDERGROUND ELECTRICAL LINES, SERVICE PEDESTALS AND LIGHT POLES. COORDINATE WITH OWNER FOR RELOCATION WITH CONFLICT ISSUES.

PROJECT SEQUENCING NOTE:

CONTRACTOR SHALL SEQUENCE PROJECT IN SUCH A WAY AS TO MAINTAIN A FUNCTIONING DRAINAGE SYSTEM AT ALL TIMES.



Know what's below.
Call before you dig.

USER:JSTHAMES
FILE:\\corp.bwsc.net\data\Projects\3643206\04_CAD\WATR\PLOT_3643206C041.dwg
SAVED:9/11/2020
PLOTTED:9/15/2020



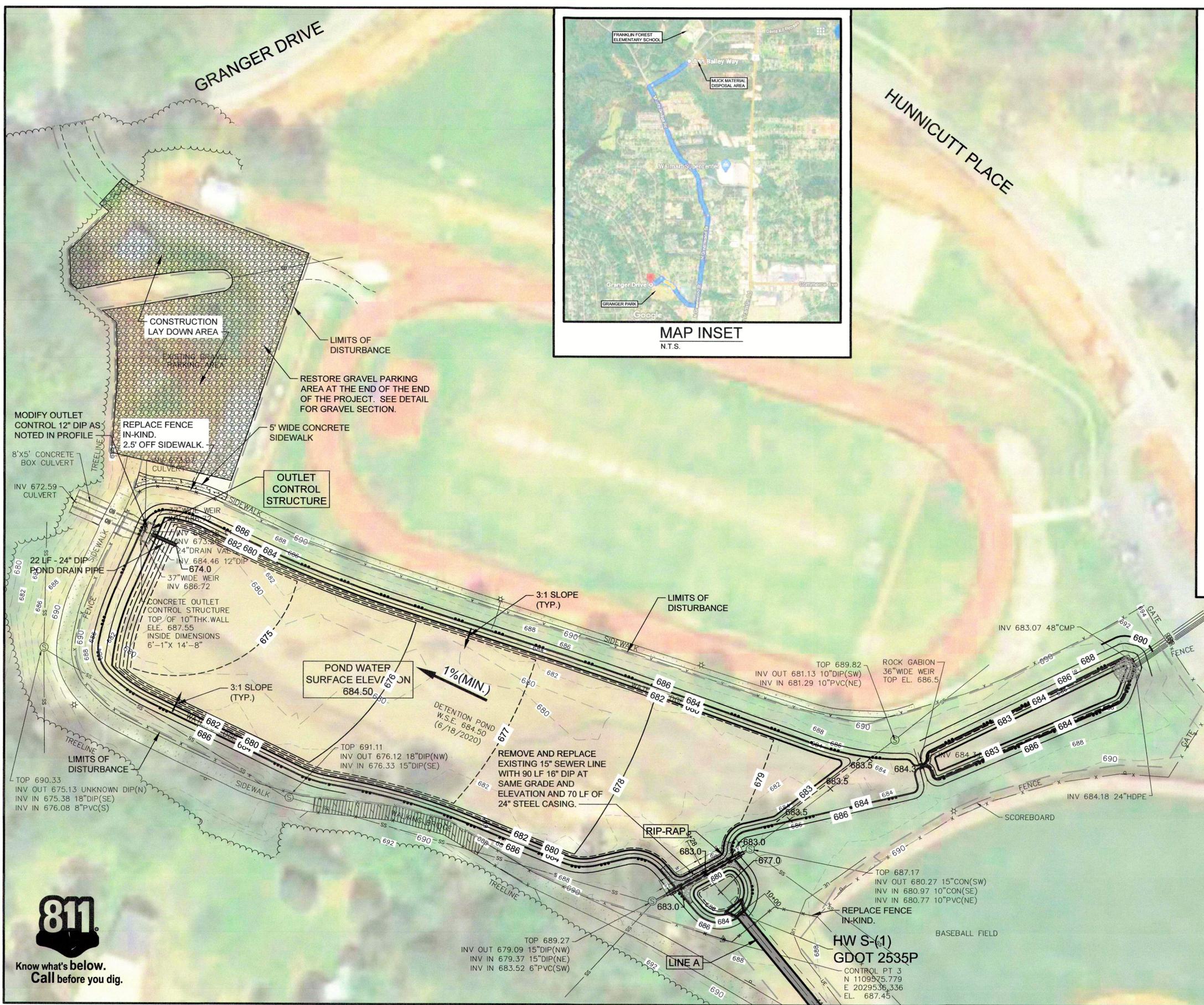
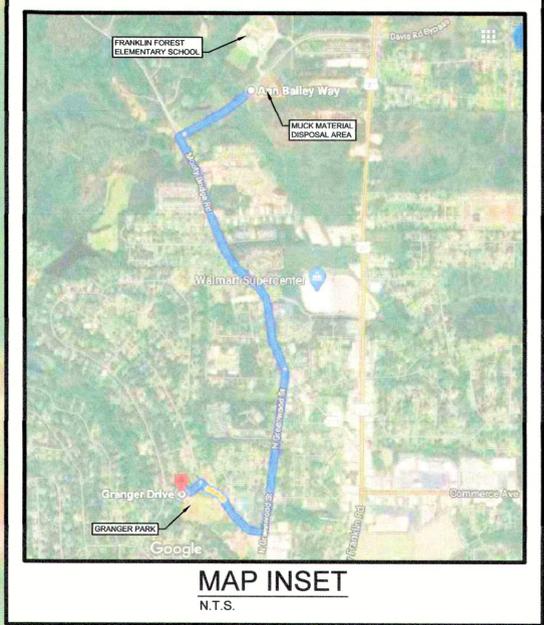
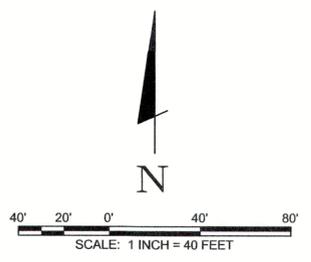
GRADING AND DRAINAGE PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CST	8/28/2020	100% OWNER REVIEW

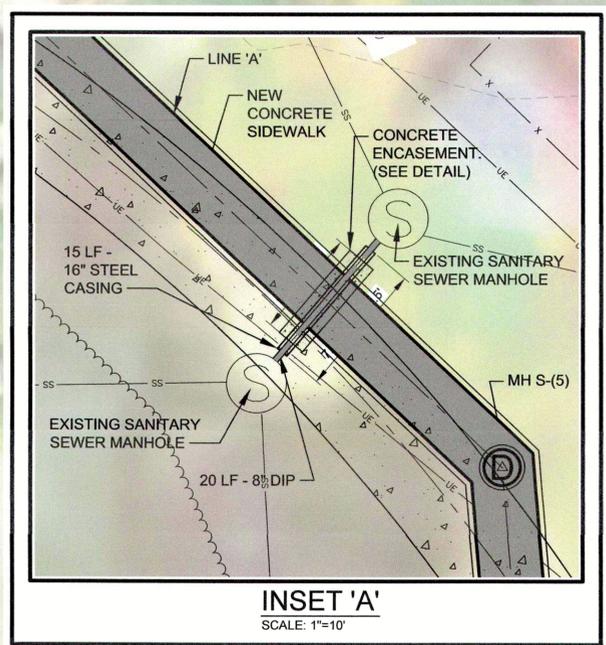
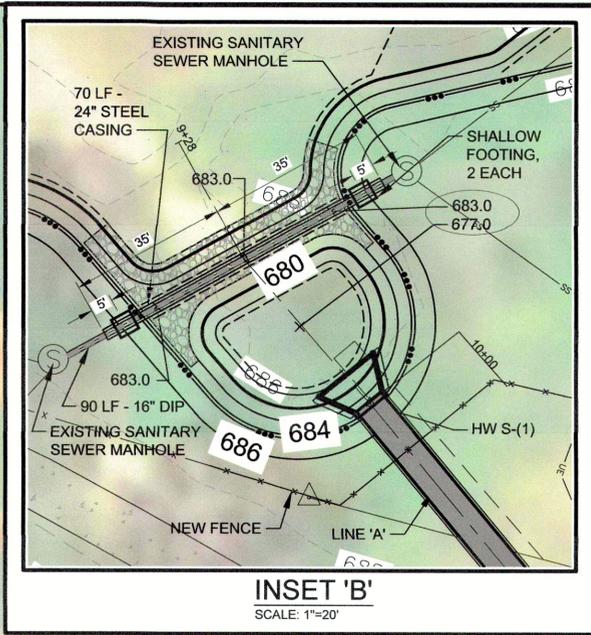
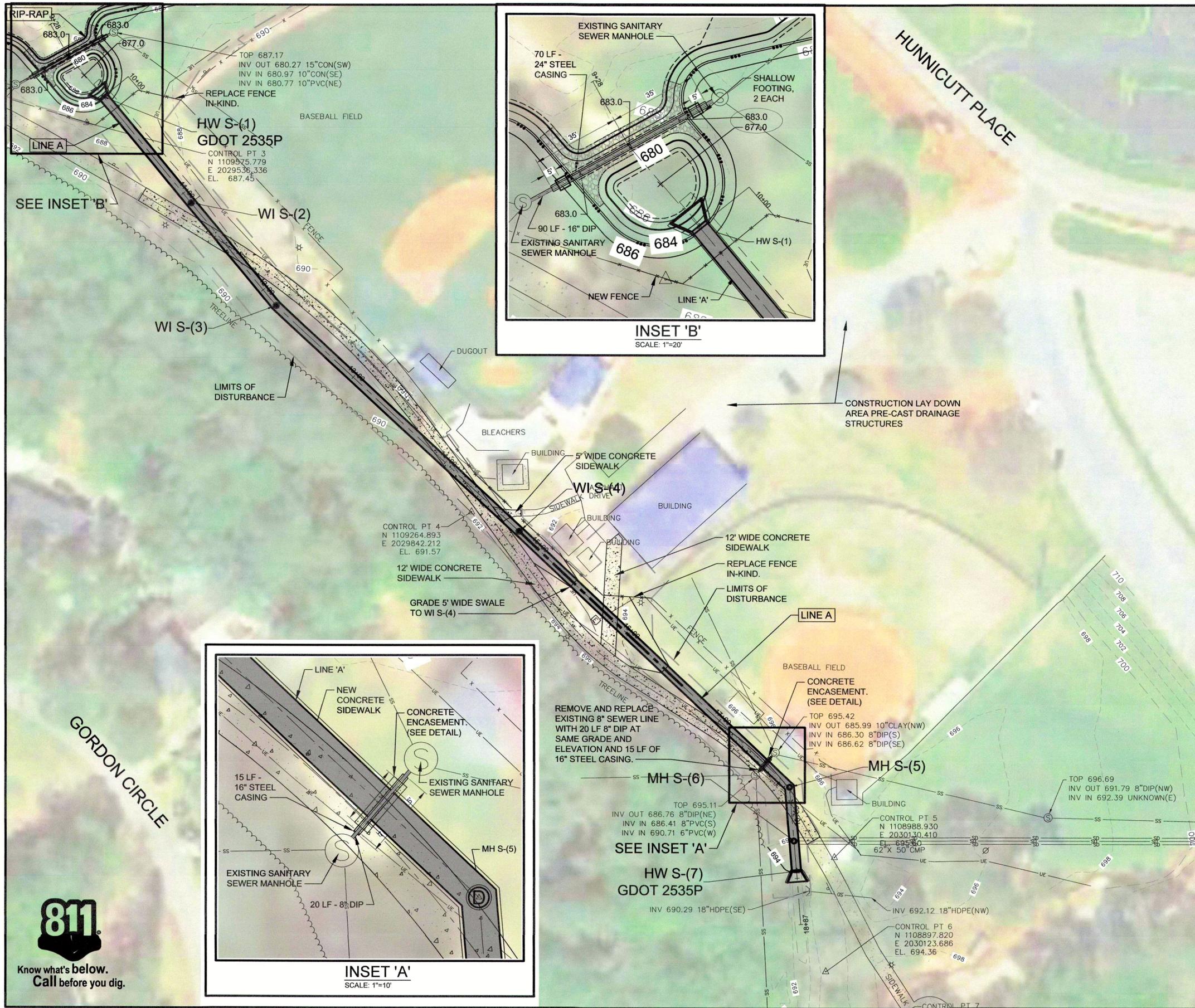
C1.01
PROJ. NO. 3643206

PROJECT NOTES:

- CONTRACTOR SHALL SEQUENCE PROJECT IN SUCH A WAY AS TO MAINTAIN A FUNCTIONING DRAINAGE SYSTEM AT ALL TIMES.
- CONTRACTOR TO REPAIR ALL DAMAGED EXISTING ASPHALT AREAS AND RE-STRIPE DAMAGED PARKING AREAS, POST CONSTRUCTION.
- CONTRACTOR TO MAINTAIN SANITARY SEWER SERVICE DURING THE ENTIRE DURATION OF THE PROJECT.
- CONTRACTOR SHALL ADEQUATELY DRY THE EXCAVATED MATERIAL PRIOR TO HAULING OFF. CONTRACTOR SHALL ENSURE HAULING ACTIVITIES DO NOT RESULT IN SPILLAGE SOIL OR MUDDY WATER ONTO STREET FROM DUMP TRUCKS.
- CONTRACTOR SHALL CONTACT THE CITY OF LAGRANGE TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION.
NATALIE HALE
706-402-8150
natalie@thethreadtrail.org
- THE CITY WILL PROVIDE A DISPOSAL LOCATION OF THE MUCKED OUT MATERIAL. IT IS LOCATED APPROXIMATELY 2.3 MILES FROM PROJECT SITE. SEE MAP INSET THIS SHEET.
- CONTRACTOR SHALL COORDINATE AND SUBCONTRACT ALL CONCRETE REPLACEMENT WITH:
LEWALLEN CONSTRUCTION COMPANY
JONATHAN CASH
404-984-7717
jonathan@lewallenconstruction.com



USER:JSTHAMES
FILE: \\corp.bwac.net\data\Projects\36_36432\3643206\04_CAD_WATRY_PLOT_3643206C101.dwg
SAVED: 8/17/2020
PLOTTED: 9/17/2020



PROJECT NOTES:

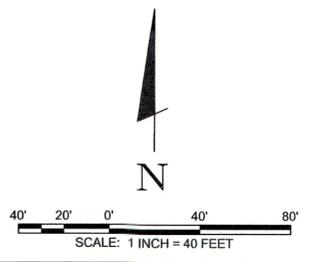
1. CONTRACTOR SHALL SEQUENCE PROJECT IN SUCH A WAY AS TO MAINTAIN A FUNCTIONING DRAINAGE SYSTEM AT ALL TIMES.
2. CONTRACTOR TO REPAIR ALL DAMAGED EXISTING ASPHALT AREAS AND RE-STRIPE DAMAGED PARKING AREAS, POST CONSTRUCTION.
3. CONTRACTOR TO MAINTAIN SANITARY SEWER SERVICE DURING THE ENTIRE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL ADEQUATELY DRY THE EXCAVATED MATERIAL PRIOR TO HAULING OFF. CONTRACTOR SHALL ENSURE HAULING ACTIVITIES DO NOT RESULT IN SPILLAGE SOIL OR MUDDY WATER ONTO STREET FROM DUMP TRUCKS.
5. CONTRACTOR SHALL CONTACT THE CITY OF LAGRANGE TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION.
NATALIE HALE
706-402-8150
natalie@thethreadtrail.org
6. CONTRACTOR SHALL COORDINATE AND SUBCONTRACT ALL CONCRETE REPLACEMENT WITH:
LEWALLEN CONSTRUCTION COMPANY
JONATHAN CASH
404-984-7717
jonathan@lewallenconstruction.com

BARGE
DESIGN SOLUTIONS



GRADING AND DRAINAGE PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CST	8/28/2020	100% OWNER REVIEW



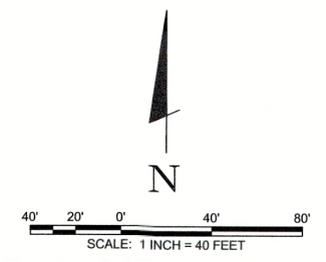
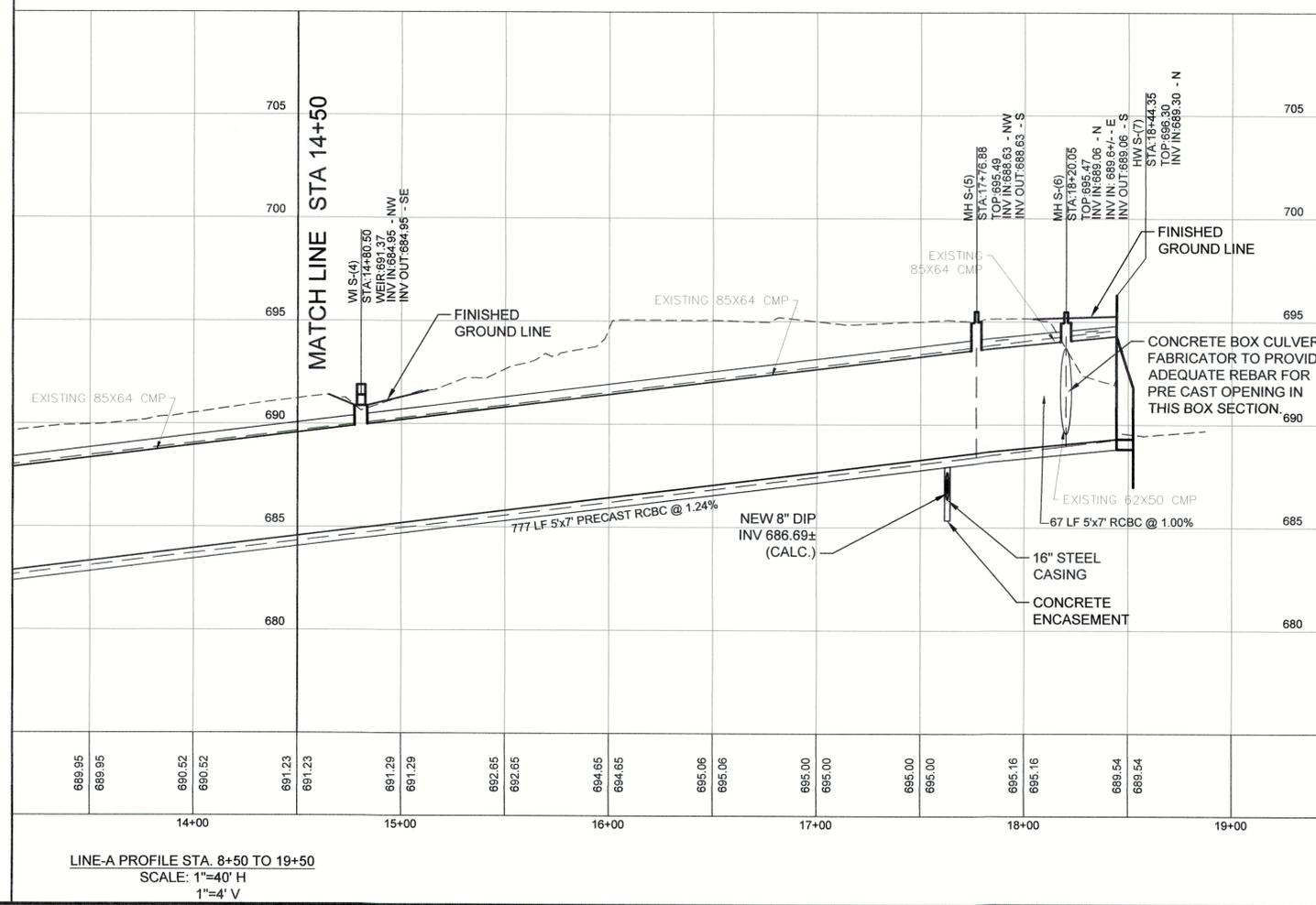
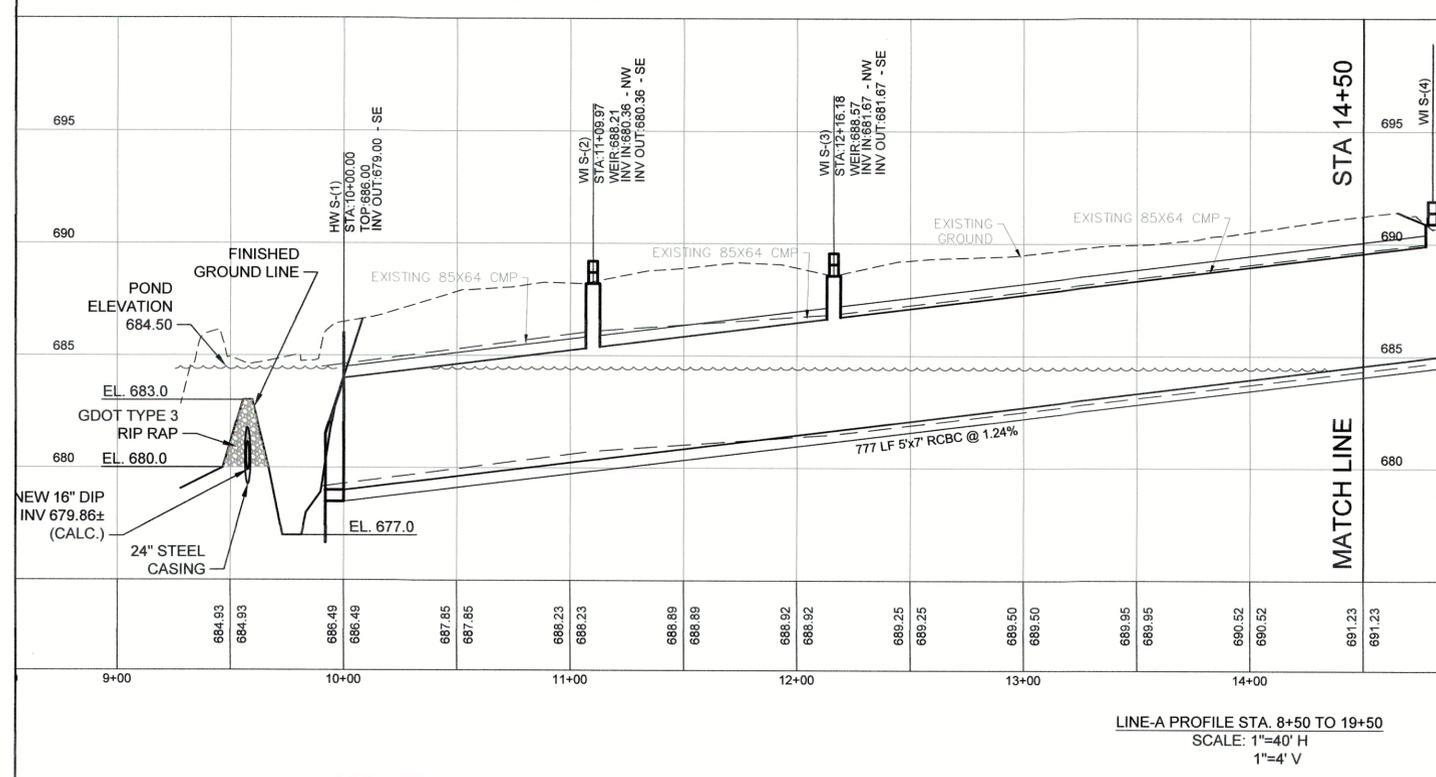
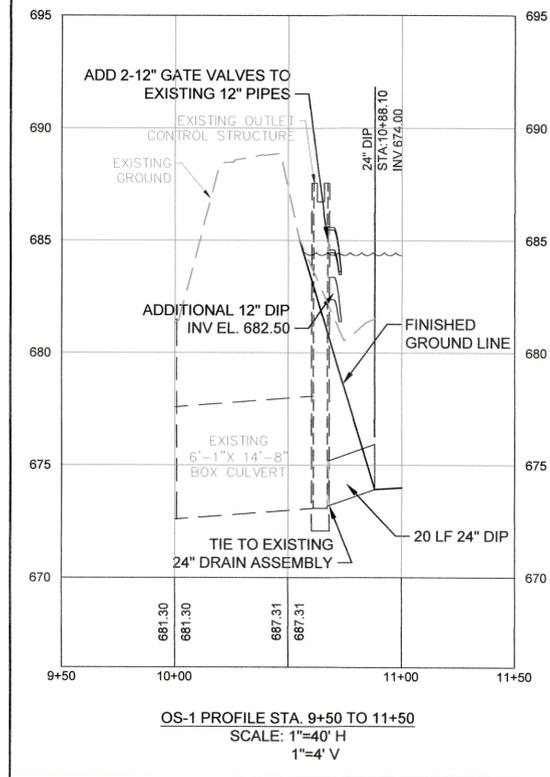
USER: JSTHAMES
FILE: \\corp-bwscinc.net\data\Projects\36\36432\3643206\04_CAD\WATER_PLOT_3643206C101.dwg
SAVED: 9/17/2020
PLOTTED: 9/17/2020



USER:JSTHAMES
 FILE: \\corp.bvsc.net\data\Projects\36\36432\3643206\04_CAD\WATR_PLOT_3643206C201.dwg
 SAVER: 9/11/2020
 PLOTTED: 9/15/2020



Know what's below.
 Call before you dig.



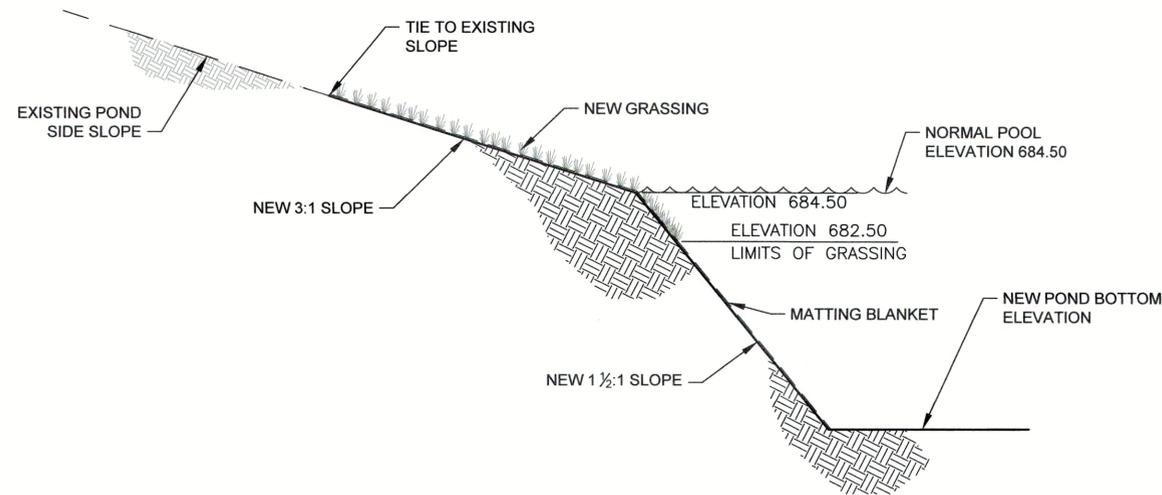
BARGE
 DESIGN SOLUTIONS



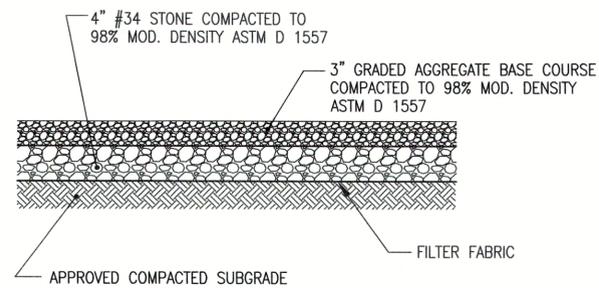
DRAINAGE PROFILES
 LAGRANGE STORM DRAIN SYSTEM
 GRANGER PARK
 STORMWATER IMPROVEMENTS
 LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CST	8/28/2020	80% OWNER REVIEW

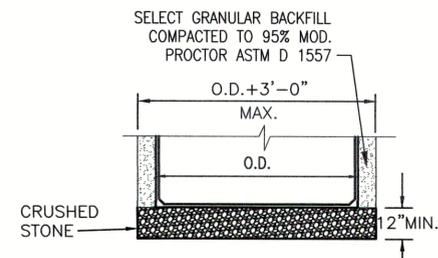
C2.01
 PROJ. NO. 3643206



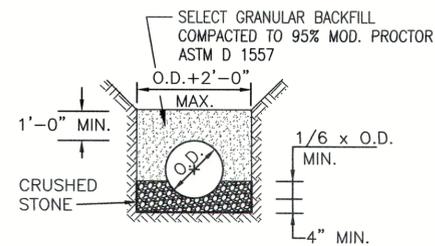
A
C7.01 **TYPICAL POND SIDE SLOPES SECTION**
N.T.S.



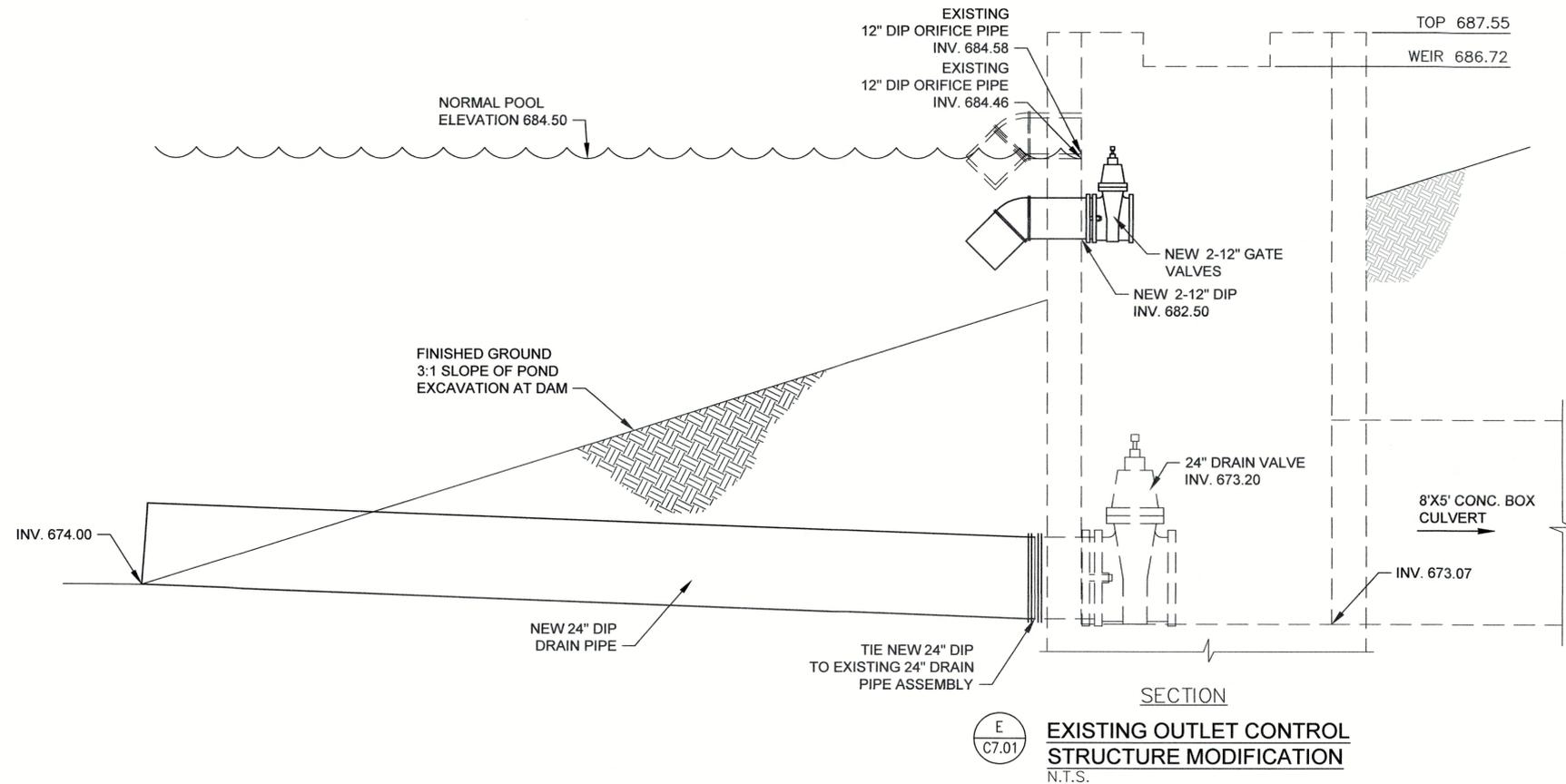
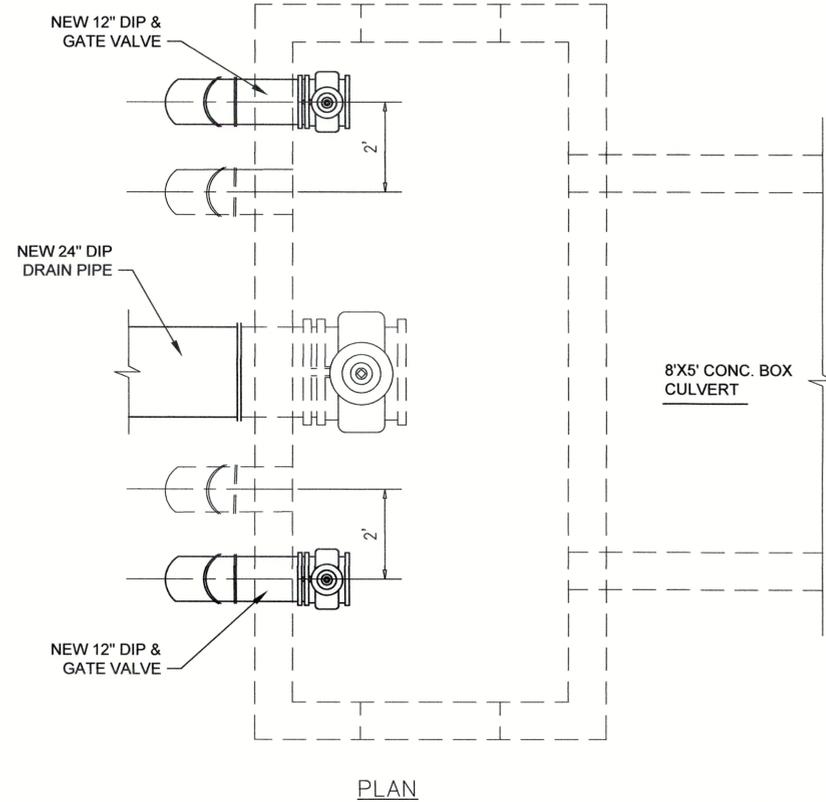
B
C7.01 **GRAVEL PARKING AREA TYPICAL SECTION**
N.T.S.



C
C7.01 **PRECAST BOX CULVERT BEDDING DETAIL**
N.T.S.



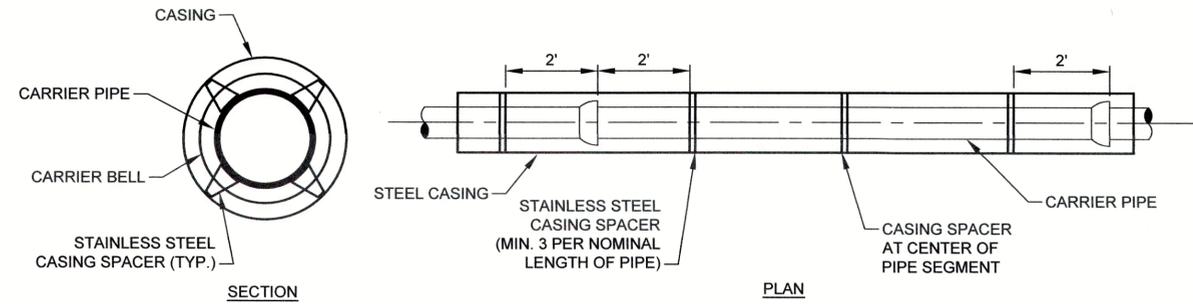
D
C7.01 **STORM SEWER PIPE BEDDING & HAUNCHING DETAIL**
N.T.S.



E
C7.01 **EXISTING OUTLET CONTROL STRUCTURE MODIFICATION**
N.T.S.

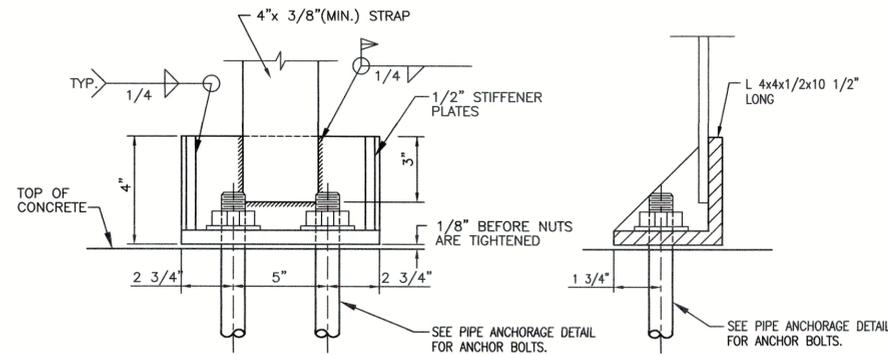
REV.	DIR.	CHK.	DATE	DESCRIPTION
A	JST	JST	8/28/2020	90% OWNER REVIEW

USER: JSTHAMES
FILE: \\corp.bvsc.net\data\Projects\36\3643206\04_CAD\WATER\PLOTT\3643206C700.dwg
SAVED: 9/15/2020
PLOTTED: 9/15/2020

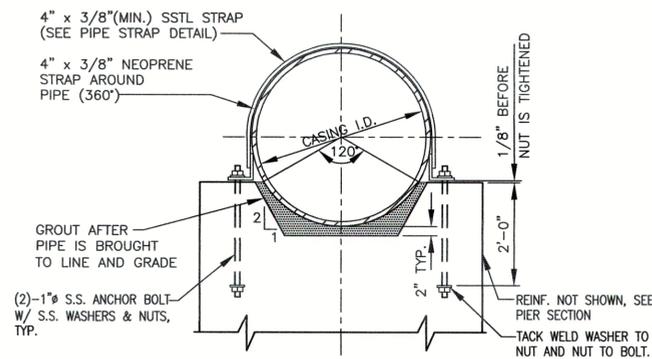


NOTE: CASING SHALL BE SEALED ON BOTH ENDS PER THE SPECIFICATIONS.

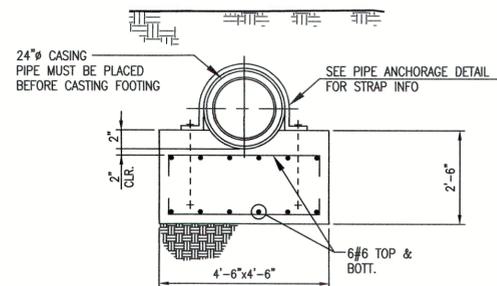
A
C7.03 **CASING SPACER DETAIL**
N.T.S.



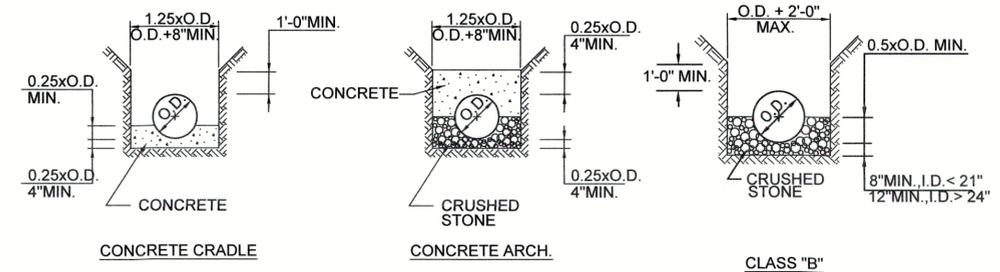
C
C7.03 **TYPICAL PIPE STRAP DETAIL**
N.T.S.
NOTE: ALL MATERIAL 304SS



D
C7.03 **TYPICAL PIPE ANCHORAGE DETAIL**
N.T.S.



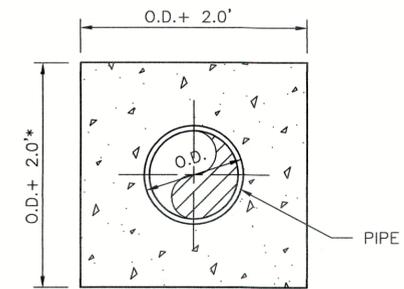
F
C7.03 **TYPICAL SHALLOW FOUNDATION W/ NO PIER**
N.T.S.



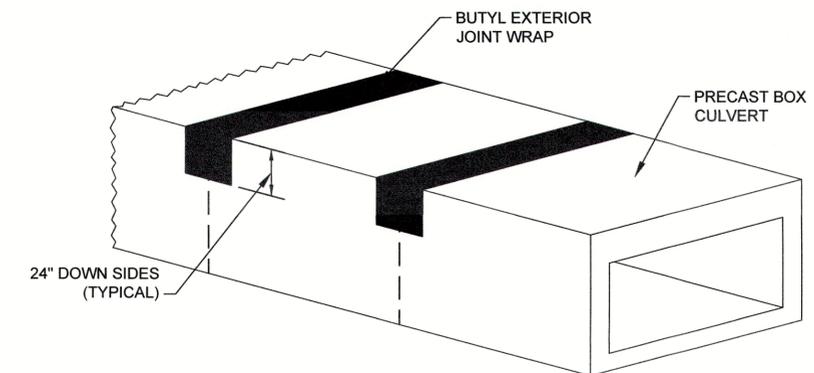
B
C7.03 **GRAVITY SEWER PIPE BEDDING & HAUNCHING DETAIL**
N.T.S.
FOR ALL SEWER PIPE EXCEPT PVC

B
C7.03 **GRAVITY SEWER PIPE BEDDING & HAUNCHING DETAIL**
N.T.S.

* THICKNESS ON TOP OF PIPE VARIES DUE TO CLEARANCE OF CONCRETE BOX CULVERT. THIS THICKNESS TO CALCULATED IN THE FIELD.



E
C7.03 **CONCRETE ENCASEMENT DETAIL**
N.T.S.



G
C7.03 **BUTYL EXTERIOR JOINT WRAP DETAIL**
N.T.S.



MISCELLANEOUS DETAILS
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A	JST	CST	8/28/2020	90% OWNER REVIEW

USER:JSTHAMES
FILE: \\corp.bwsc.net\data\Projects\36\3643206\04_CAD\WATER\PL01_3643206C700.dwg
SAVED: 9/15/2020
PLOTTED: 9/15/2020



GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

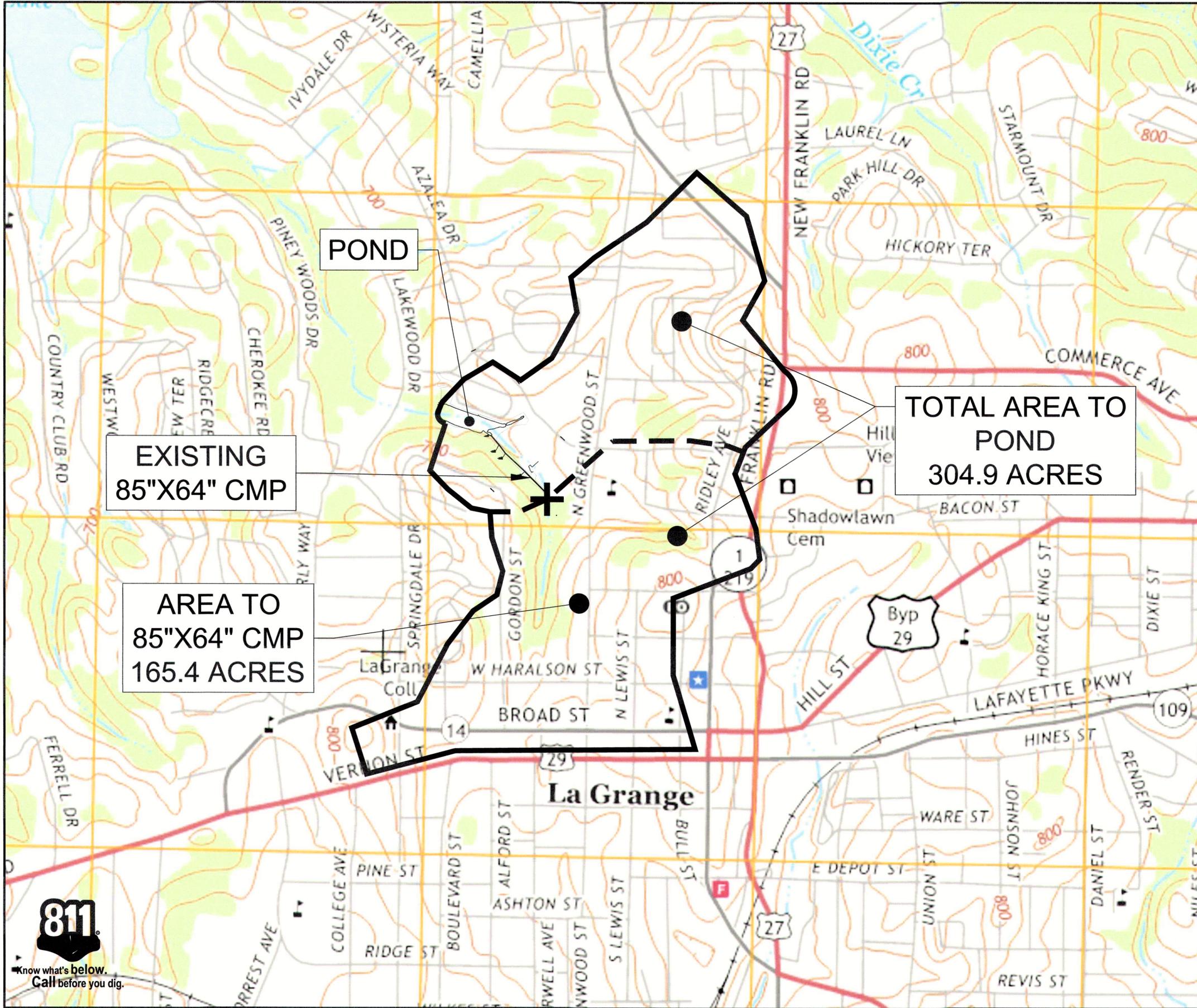
TOPOGRAPHIC MAP AND
DRAINAGE BASINS

LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

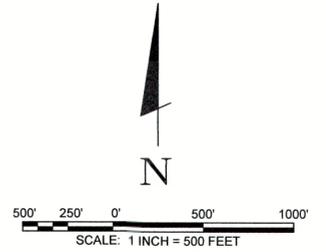
REV.	DATE	BY	CHKD.	DESCRIPTION

C2.25

PROJ. NO. 3643206



DRAINAGE AREA



CHECKLIST #43, #44, #45.

USER:JSTHAMES
FILE: \\corp.bwsc.net\oia\Projects\3643206\04_CAD\WATER\PLT\C2.25.dwg
SAVED: 8/12/2020
PLOTTED: 9/15/2020





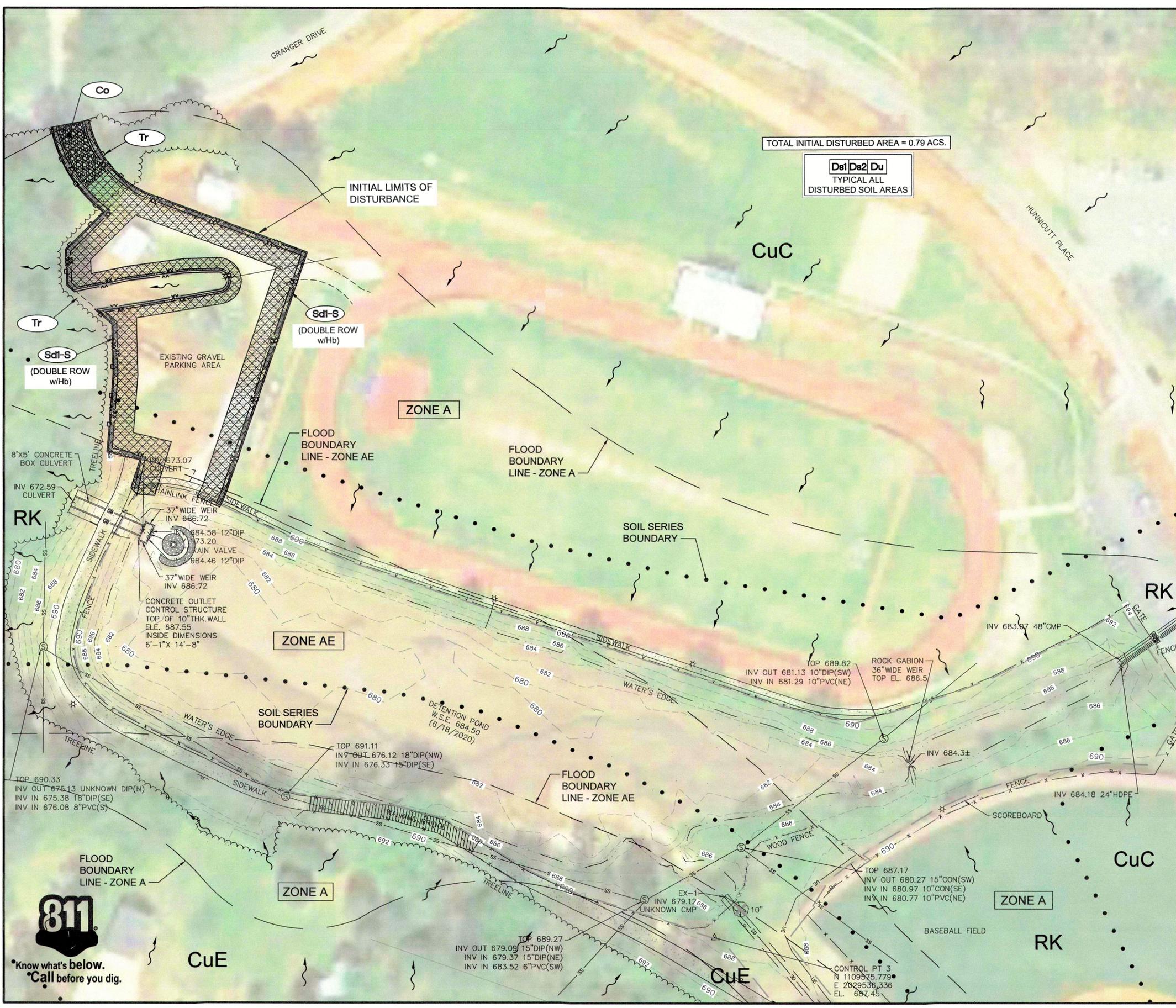
GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

INITIAL - ES&PC PLAN

LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DATE	BY	CHKD.	DESCRIPTION
1	02/24/2020	CS	CS	DRWG OWNER REVIEW
2				
3				
4				
5				
6				
7				
8				
9				
10				

C2.31
PROJ. NO. 3643206



USER:JSTHAMES
 FILE: \\corp.bwsc.net\data\Projects\36\3643206\04_CAD\WATER\LOT_3643206C231.dwg
 SAVED: 9/9/2020
 PLOTTED: 9/15/2020





EROSION CONTROL LEGEND

- Co** [Cross-hatched box] CONSTRUCTION EXIT (CONTRACTOR SHALL FIELD LOCATE AS NEEDED)
- Sd-S** [Line with 'x' marks] SILT FENCE (SENSITIVE AREAS, TYPE C)
- Tr** [Line with circles] TREE PROTECTION FENCING
- [Dashed line] LIMITS OF DISTURBANCE
- [Cross-hatched box] INITIAL LIMITS OF DISTURBANCE
- [Dotted line] SOIL TYPE BOUNDARIES
- [Wavy line] SURFACE FLOW ARROW
- [Dotted box] Ds1/Ds2/Ds3/Du ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING AND/OR PERMANENT SEEDING.

CuC = SOIL DESIGNATION FOR CECIL-URBAN LAND COMPLEX (2% to 10% Slopes)
 CuE = SOIL DESIGNATION FOR CECIL-URBAN LAND COMPLEX (10% to 25% slopes)
 RK = SOIL DESIGNATION FOR RIVERVIEW -CHEWACLA ASSOCIATION

FLOOD BOUNDARY INFORMATION
 TAKEN FROM FEMA FIRM PANEL 13285C0141E
 REVISED JULY 3, 2012
 PRE-DEVELOPED 'CN' = 72.8
 DEVELOPED 'CN' = 72.8

TOTAL INITIAL DISTURBED AREA = 0.79ACRS.

Ds1 Ds2 Du
 TYPICAL ALL
 DISTURBED SOIL AREAS



Know what's below.
 Call before you dig.

BARGE

DESIGN SOLUTIONS



GSWCC CERT. NO. 59182
 EXPIRES MARCH 1, 2022

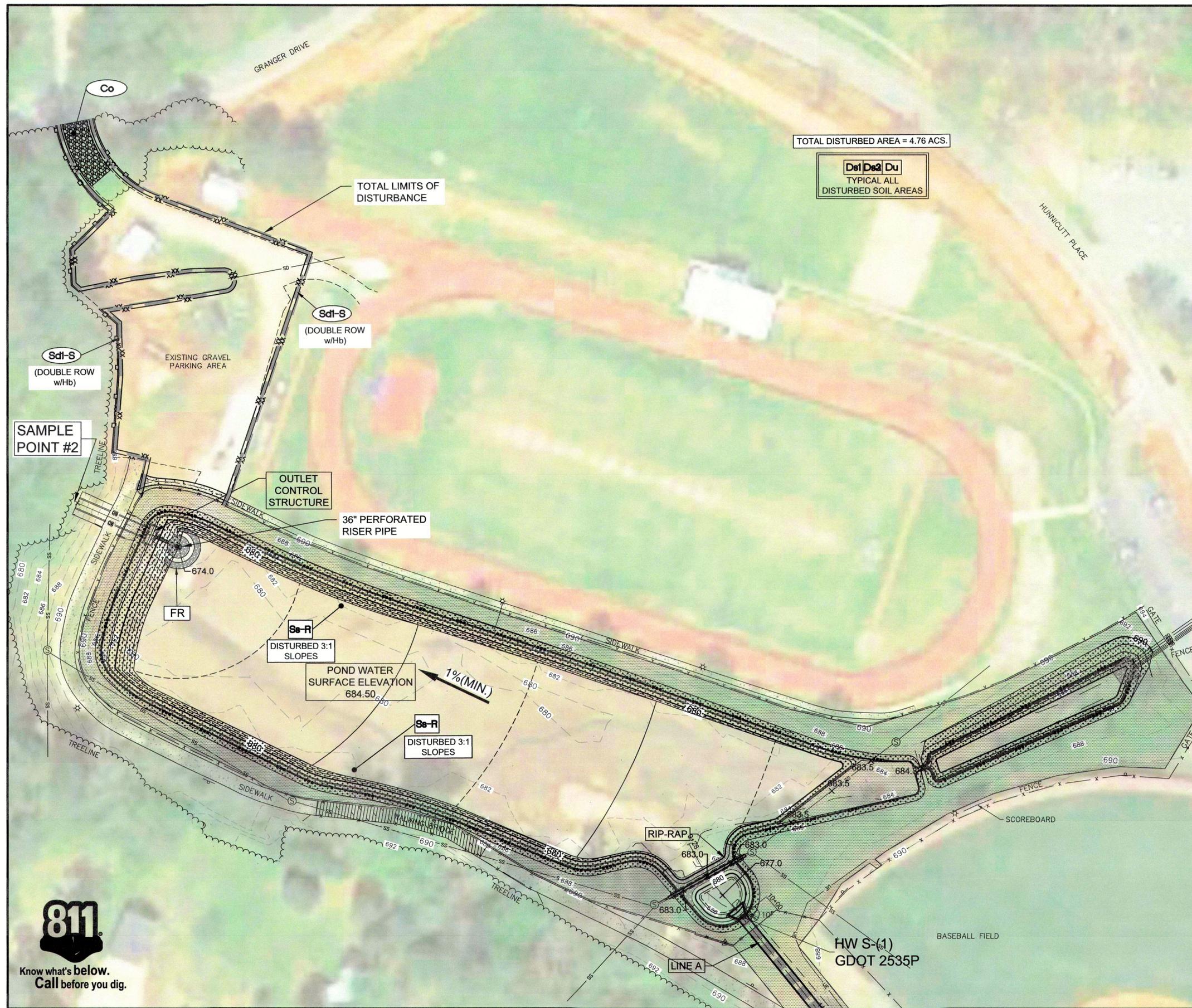
INITIAL - ES&PC PLAN
 LAGRANGE STORM DRAIN SYSTEM
 GRANGER PARK
 STORMWATER IMPROVEMENTS
 LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A		CST	8/28/2020	50% OWNER REVIEW

C2.32

PROJ. NO. 3643206

USER:JSTHAMES
 FILE:\\corp\bwsc.net\ddia\Projects\3643206\04_CAD\WATER\PL01\3643206C231.dwg
 SAVER:9/9/2020
 PLOTTED:9/15/2020



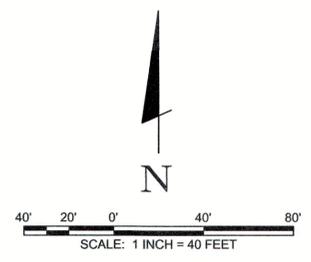
TOTAL DISTURBED AREA = 4.76 ACS.

Ds1 Ds2 Du
TYPICAL ALL
DISTURBED SOIL AREAS

EROSION CONTROL LEGEND

- Co** [Pattern] CONSTRUCTION EXIT (CONTRACTOR SHALL FIELD LOCATE AS NEEDED)
- Sd1-S** [Symbol] SILT FENCE (SENSITIVE AREAS, TYPE C)
- Tr** [Symbol] TREE PROTECTION FENCING
- [Symbol] LIMITS OF DISTURBANCE
- Ds1 Ds2 Du** [Pattern] Ds1/Ds2/Du ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING AND/OR PERMANENT SEEDING.
- Ss-R** [Pattern] SLOPE STABILIZATION (ROLLED)
- FR** [Symbol] FILTER RING

NOTE:
LIMITS OF GRASSING WITHIN POND AREA TO EXTEND DOWN TO ELEVATION 682 AND ALL DISTURBED AREAS ABOVE THAT ELEVATION.



BARGE
DESIGN SOLUTIONS



GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

INTERMEDIATE - ES&CP PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
1	JST	CST	8/28/2020	10% OWNER REVIEW

C2.33

PROJ. NO. 3643206

USER:JTHAMES
FILE:\\corp.bwsc.net\data\Projects\364_3643206\04_CAD\WATER\LOT\3643206C233.dwg
SAVED: 9/15/2020
PLOTTED: 9/15/2020





EROSION CONTROL LEGEND

- Co** [Symbol] CONSTRUCTION EXIT (CONTRACTOR SHALL FIELD LOCATE AS NEEDED)
- Sd1-S** [Symbol] SILT FENCE (SENSITIVE AREAS, TYPE C)
- Tr** [Symbol] TREE PROTECTION FENCING
- [Symbol] LIMITS OF DISTURBANCE
- Ds1/Ds2/Du** [Symbol] Ds1/Ds2/Du ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING AND/OR PERMANENT SEEDING.
- Ss-R** [Symbol] SLOPE STABILIZATION (ROLLED)
- Sd2-F** [Symbol] INLET PROTECTION (NON EXCAVATED)

BARGE
DESIGN SOLUTIONS



GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

INTERMEDIATE - ES&CP PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

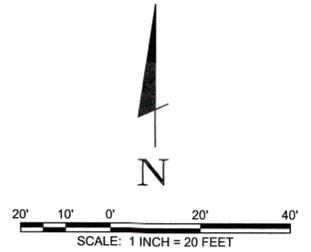
REV.	DR.	CHK.	DATE	DESCRIPTION
A		CST	02/28/2020	90% OWNER REVIEW

C2.34
PROJ. NO. 3643206

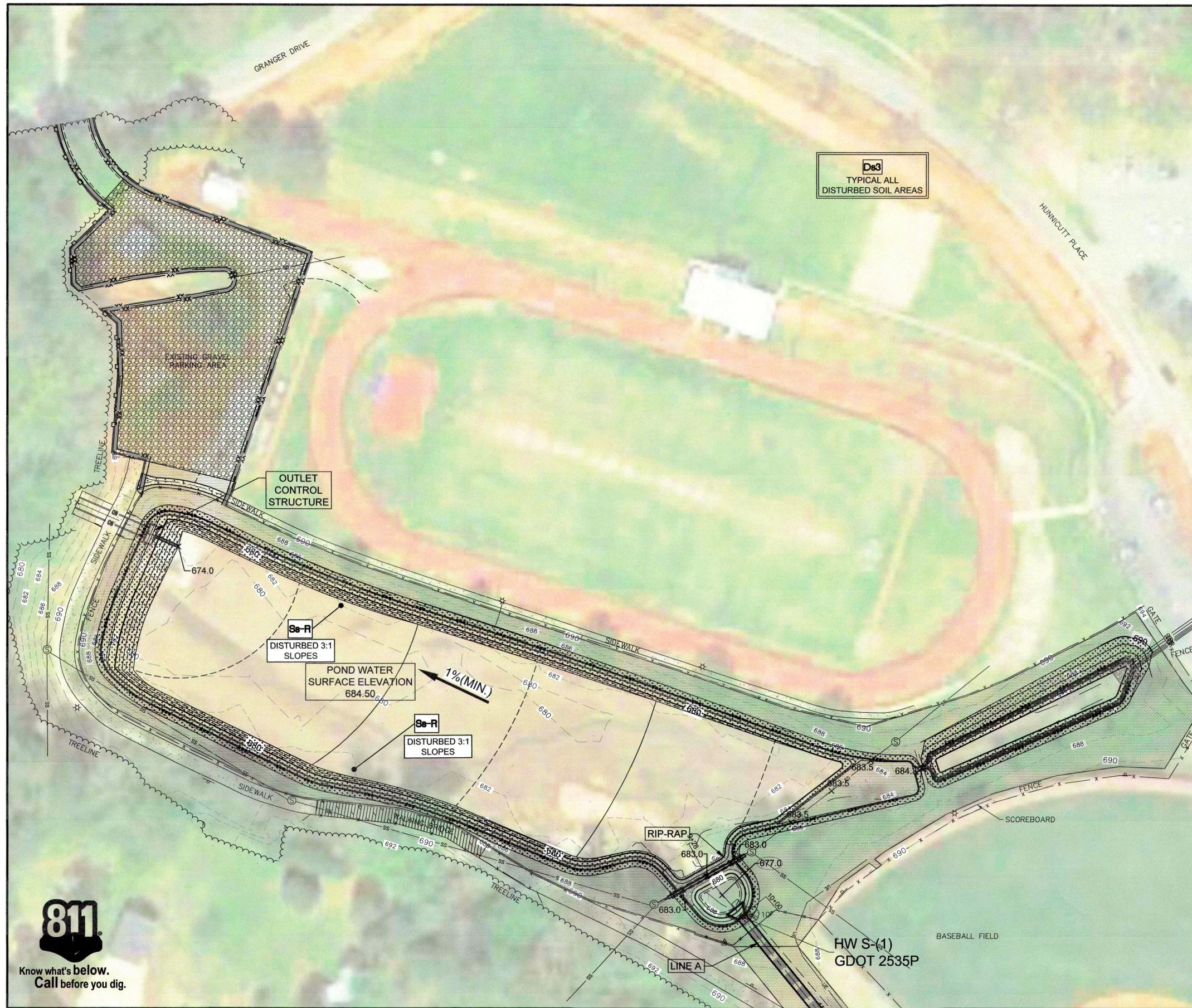


TOTAL INITIAL DISTURBED AREA = 4.76 ACS.

Ds1/Ds2/Du
TYPICAL ALL
DISTURBED SOIL AREAS



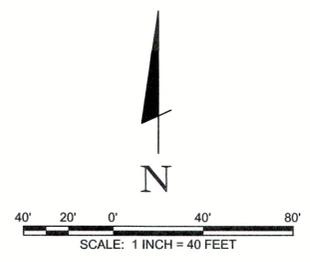
USER:JSTHAMES
FILE:\\corp\bwsc\net\dept\Projects\36\36432\3643206\04_CAD\WATER\LOT\3643206C233.dwg
SAVED: 9/15/2020
PLOT: 9/15/2020



EROSION CONTROL LEGEND

-  LIMITS OF DISTURBANCE
-  Ds3 ANY DISTURBED AREA PERMANENT SEEDING.
-  Mb INSTALL MATTING BLANKETS ON ANY DISTURBED SLOPES GREATER THAN 3:1.

NOTE:
LIMITS OF GRASSING WITHIN POND AREA TO EXTEND DOWN TO ELEVATION 682 AND ALL DISTURBED AREAS ABOVE THAT ELEVATION.



BARGE
DESIGN SOLUTIONS



GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

FINAL - ES&CP PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DIR.	DATE	DESCRIPTION
A	JST	8/28/2020	90% OWNER REVIEW

C2.35

PROJ. NO. 3643206

USER:JSTHAMES
FILE:\\corp\bwsc.net\jst\Projects\36\36432\3643206\04_CAD\WATER\PL07_3643206C2.35.dwg
SAVED: 9/15/2020
PLOTTED: 9/15/2020





EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- ▨ Ds3 ANY DISTURBED AREA PERMANENT SEEDING.
- ▨ Mb INSTALL MATTING BLANKETS ON ANY DISTURBED SLOPES GREATER THAN 3:1.

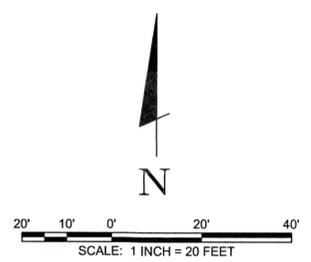
BARGE
DESIGN SOLUTIONS



GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

FINAL - ES&PC PLAN
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	DATE	DESCRIPTION
A	JST	8/28/2020	90% OWNER REVIEW



TOTAL INITIAL DISTURBED AREA = 4.76 ACS.



Know what's below.
Call before you dig.

USER: JSTHAMES
FILE: \\corp.bwsc.net\deno\Projects\36\36432\3643206\04_CAD\WATER\LOT_3643206C233.dwg
SAVED: 9/15/2020
PLOT: 9/15/2020

C2.36

PROJ. NO. 3643206

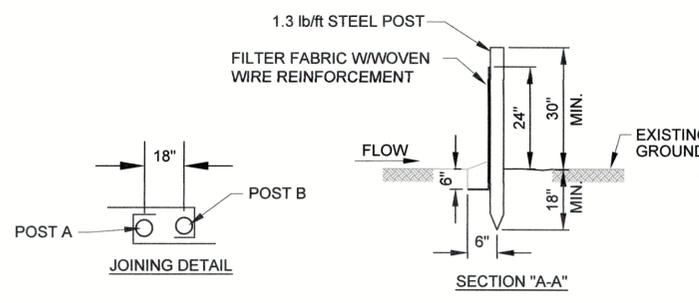
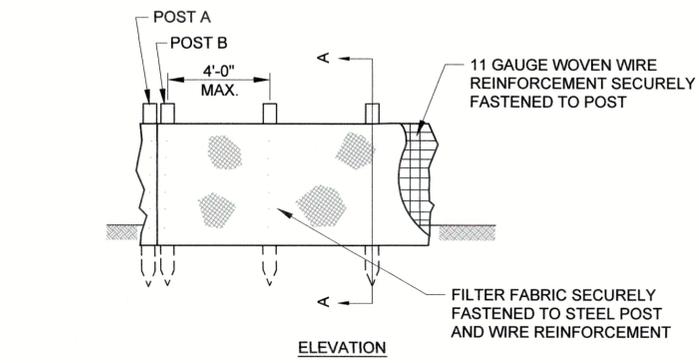


GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

EROSION CONTROL DETAILS
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

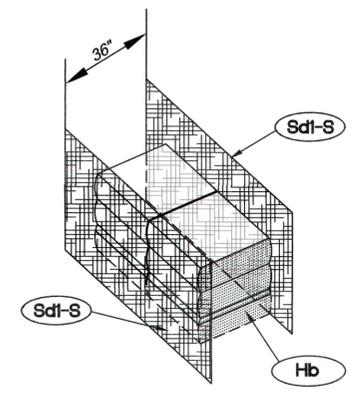
REV.	DATE	BY	CHKD.	DESCRIPTION
A	8/28/2020	CS	CS	90% OWNER REVIEW

C7.32
PROJ. NO. 3643206



Sd1 MAINTENANCE
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETEIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Sd1-S SILT FENCE (TYPE S) - SENSITIVE AREAS
N.T.S.



HAYBALE BETWEEN SILT FENCE
N.T.S.

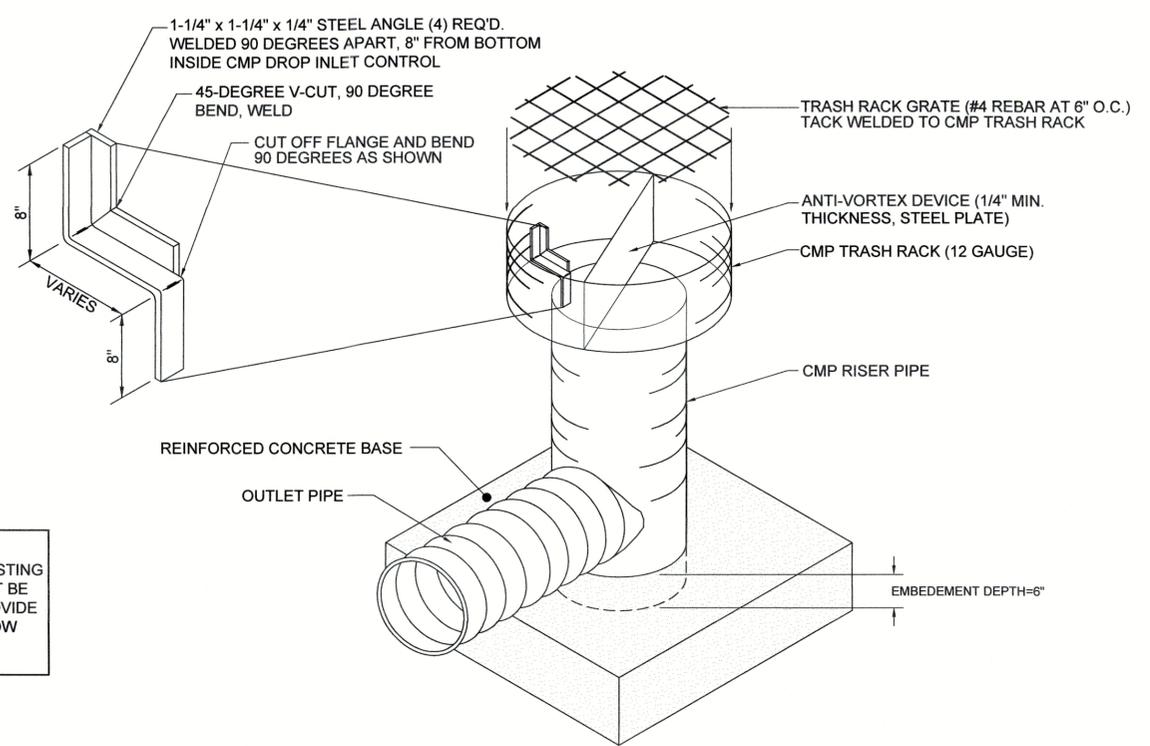
CHECKLIST #49
SEDIMENT STORAGE
GIVEN THE NATURE OF THIS WORK BEING WITHIN AN EXISTING POND AND LOWEST AREA OF THE PARK, THERE WILL NOT BE ANY SEDIMENT DISCHARGE. THE POND ITSELF WILL PROVIDE ITS OWN SEDIMENT STORAGE. SEE CALCULATIONS BELOW AND SKIMMER DETAIL.

CHECKLIST #48
SITE
STAGE/STORAGE POND STORAGE:

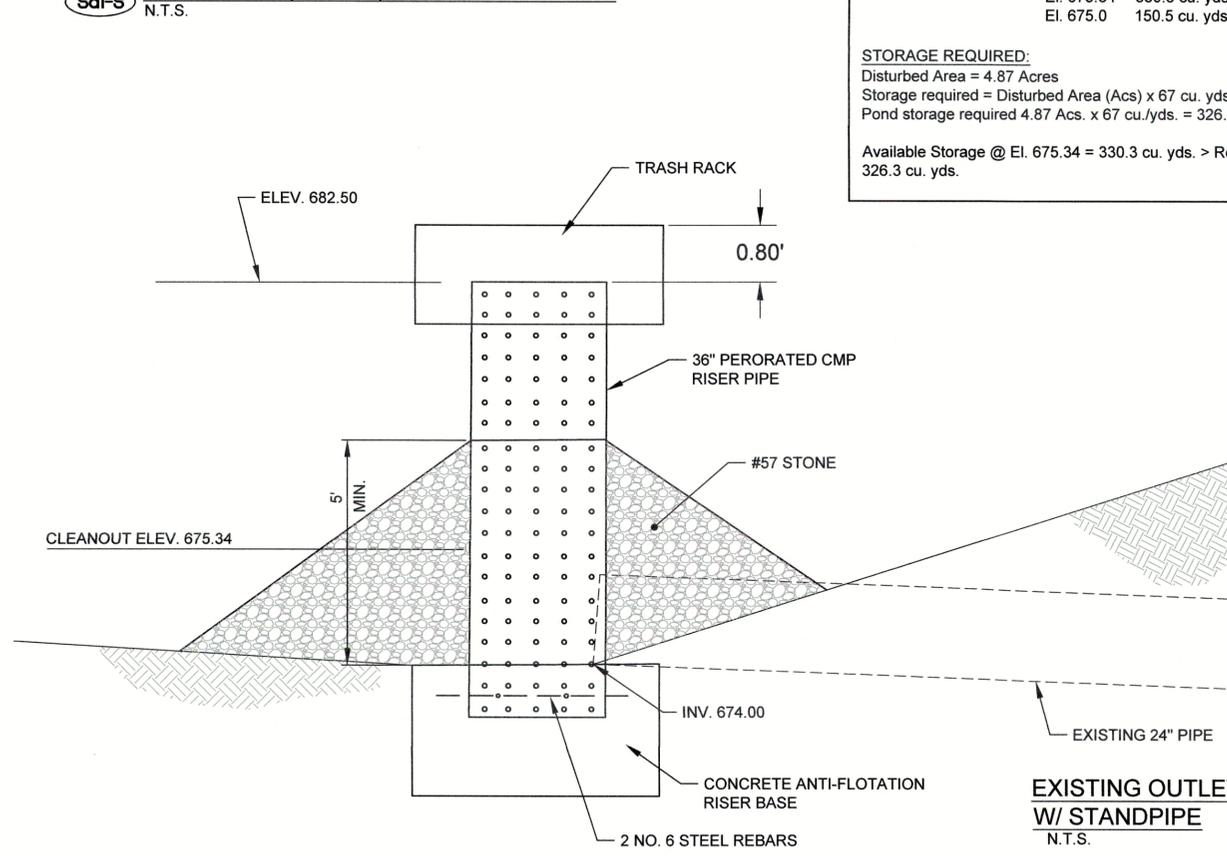
Available Storage =	El. 676.0	679.3 cu. yds.
	El. 675.34	330.3 cu. yds.
	El. 675.0	150.5 cu. yds.

STORAGE REQUIRED:
Disturbed Area = 4.87 Acres
Storage required = Disturbed Area (Acs) x 67 cu. yds./Ac.
Pond storage required 4.87 Acs. x 67 cu./yds. = 326.3 cu. yds.

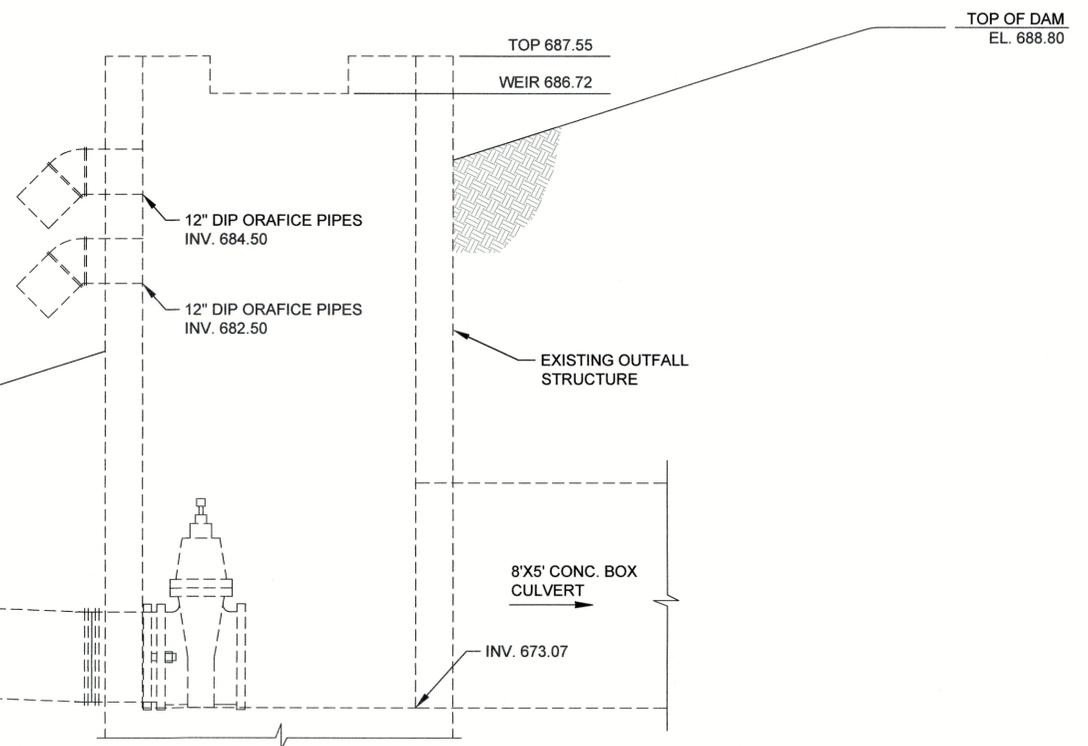
Available Storage @ El. 675.34 = 330.3 cu. yds. > Required Storage 326.3 cu. yds.



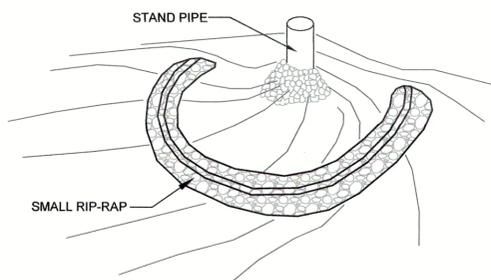
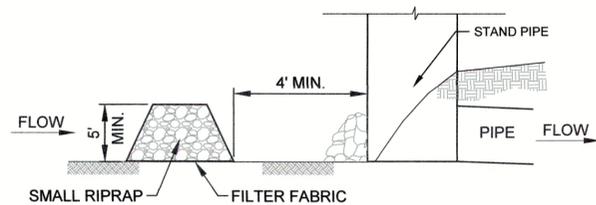
OUTLET STRUCTURE & TRASH RACK
N.T.S.



EXISTING OUTLET CONTROL STRUCTURE W/ STANDPIPE
N.T.S.

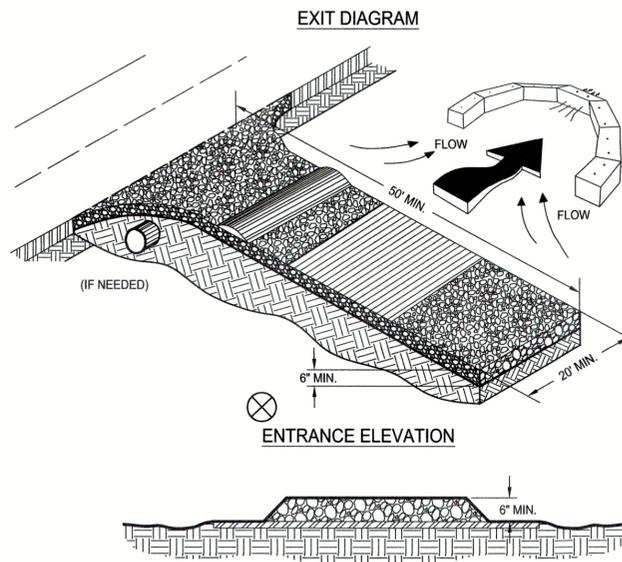


USER: JSTHAMES
FILE: \\corp.bvsc.net\data\Projects\36\36432\3643206\04_CAD\WATER\PL07_3643206C731.dwg
SAVED: 9/15/2020
PLOTTED: 9/15/2020



MAINTENANCE
THE FILTER RING MUST BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-HALF FULL. FILTER RING SHOULD BE REMOVED WHEN THE LAND-DISTURBING PROJECT HAS BEEN STABILIZED.

FR STONE FILTER RING PLACEMENT DETAIL
N.T.S.



- 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 (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE 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 CRUSHED STONE CONSTRUCTION EXIT DETAIL
N.T.S.

CHECKLIST #45

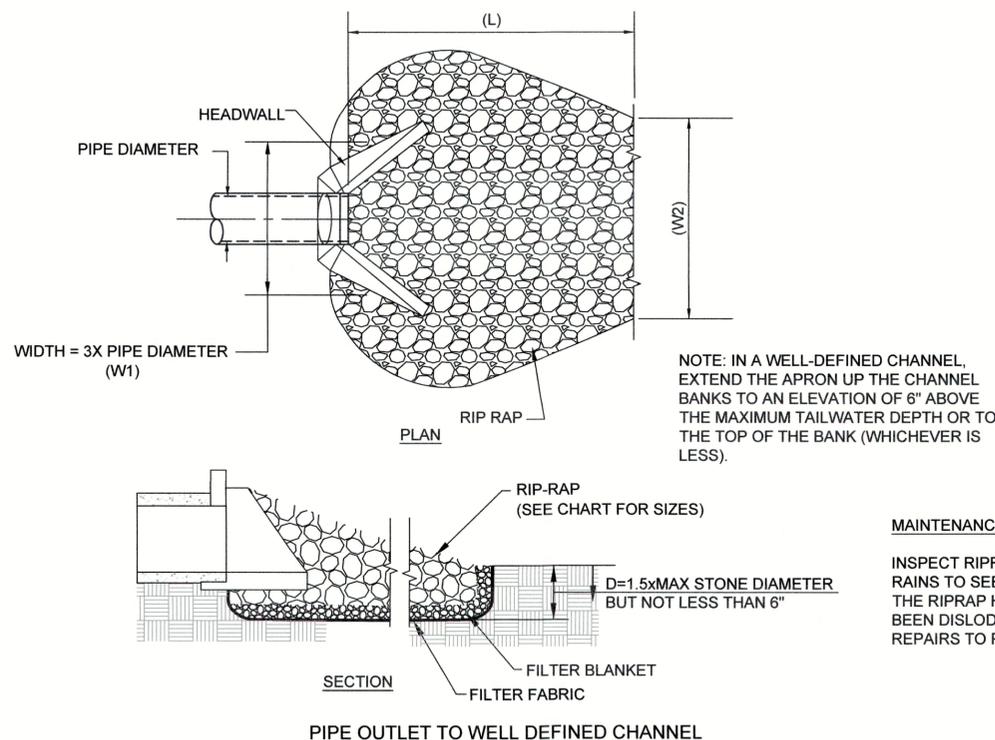
Q(cfs)	OUTLET	V ₁₀	W1	W2	L	d ₅₀	d _{max}	Depth (D)
37.11	EXIST'G 48" CMP EXIST'G 24" HDPE	*3.95 ft./sec.	18'-0"	13'-3"	18'-0"	5" TYPE 3	12" TYPE 3	18"

* OUTLET POINT CONSISTS OF TWIN PIPES (48" CMP & 24" HDPE). USED LARGER PIPE FOR FLOW BASED CALCULATIONS.

NOTE:
SEE SHEETS C1.01 & C2.33 FOR St PLACEMENT

MAINTENANCE:
INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

St STORM DRAIN OUTLET PROTECTION
N.T.S.



NOTE: 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).

MAINTENANCE:
INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

REV.	DATE	BY	CHKD.	DESCRIPTION
1	02/26/2020	CST	BS	OWNER REVIEW
2				
3				
4				
5				
6				
7				
8				
9				
10				

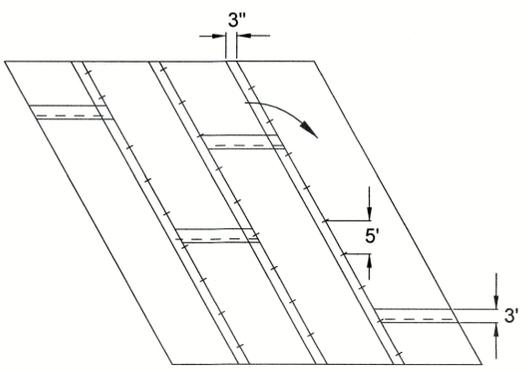
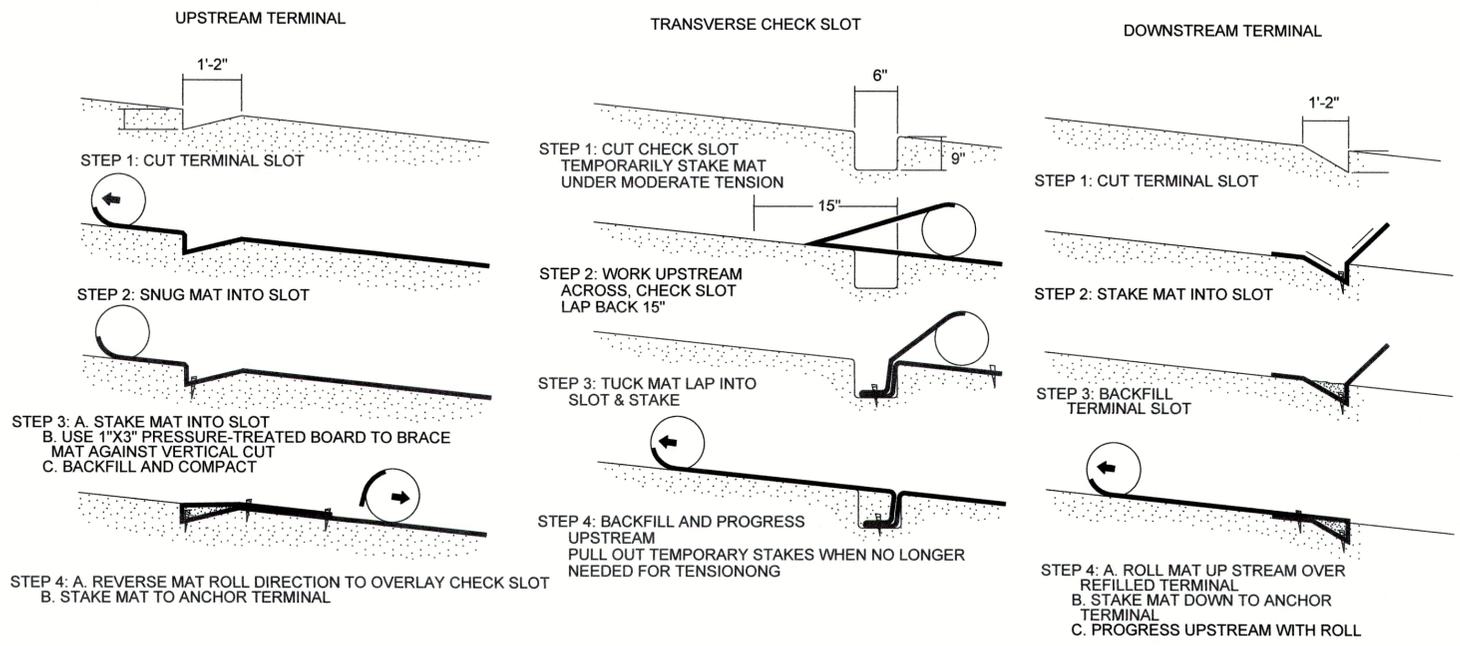


GSWCC CERT. NO. 59182
EXPIRES MARCH 1, 2022

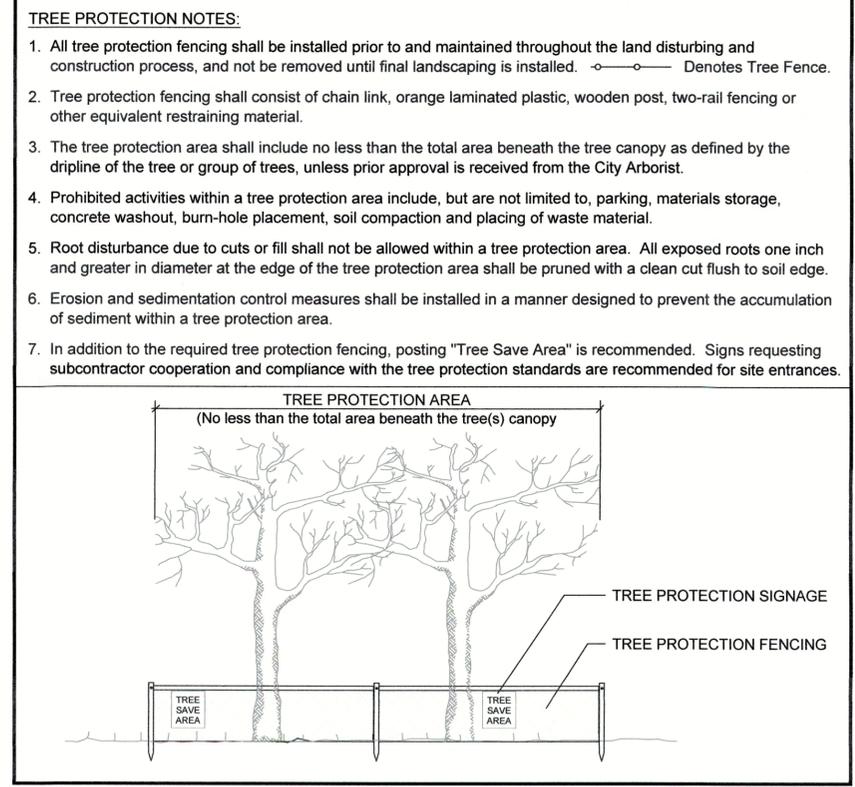
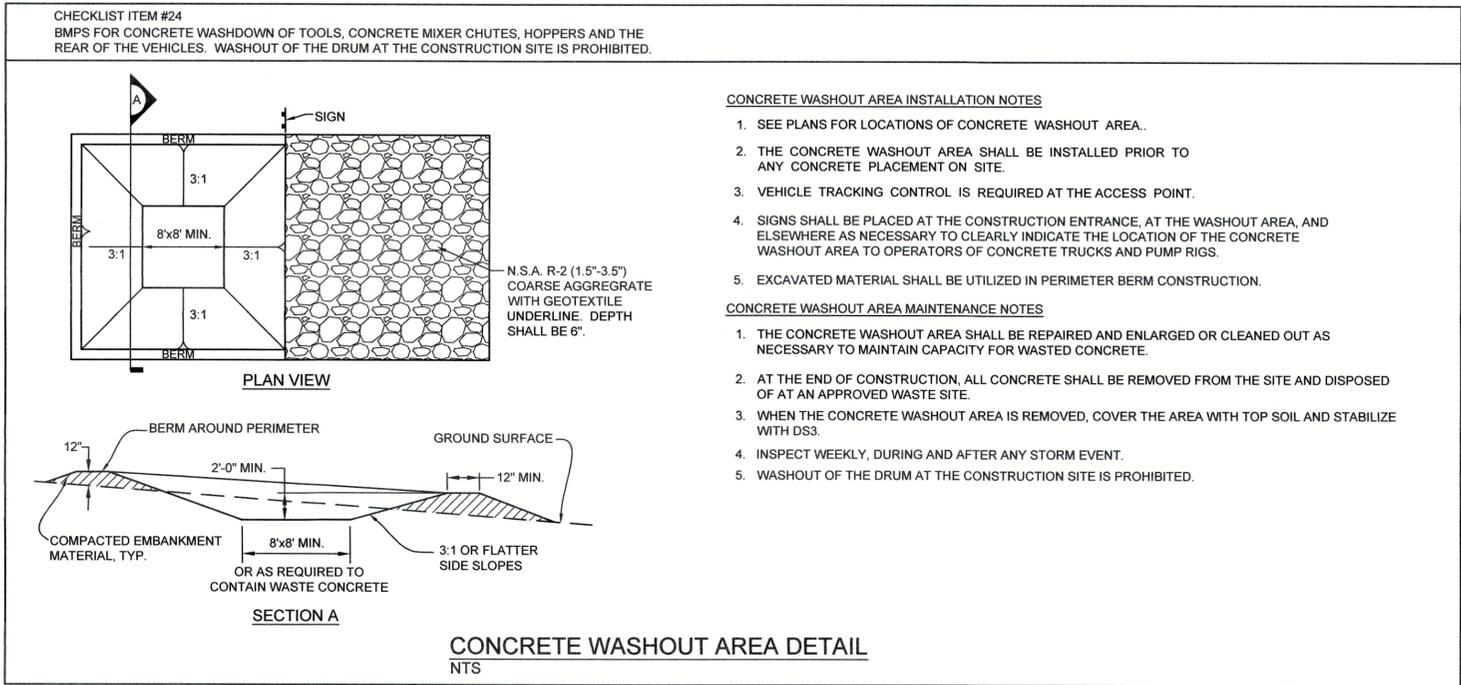
EROSION CONTROL DETAILS
LAGRANGE STORM DRAIN SYSTEM
GRANGER PARK
STORMWATER IMPROVEMENTS
LAGRANGE, GEORGIA

REV.	DR.	CHK.	DATE	DESCRIPTION
A		CS	02/28/2020	80% OWNER REVIEW

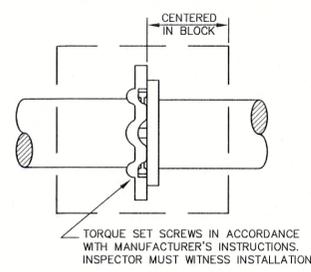
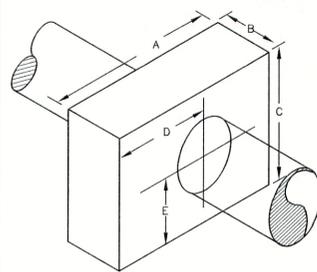
C7.34
PROJ. NO. 3643206



- NOTES:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS INCLUDING APPLICATION OF LIME, FERTILIZER & SEED.
 - START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
 - FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
 - SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
 - WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
 - USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
 - USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
 - MATting BLANKET TO BE N.A.G. S150 OR EQUIVALENT.
- MAINTENANCE:**
- ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.



USER: JSTHAMES
FILE: \\corp.bwsc.net\dia\Projects\36\36432\3643206\04_CAD\WATER\LOT_3643206C731.dwg
SAVED: 9/15/2020
PLOT: 09/15/2020



MINIMUM DIMENSIONS IN FEET FOR CONCRETE COLLAR ON DUCTILE IRON PIPE TO BE USED WITH EMBEDDED DUCTILE IRON RETAINER GLAND

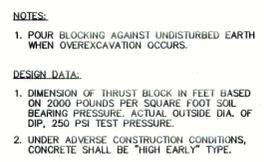
PIPE SIZE	A	B	C	D	E	VOLUME CU. YDS.	CONC. WT.	THRUST
4"	3'-6"	3'-0"	1'-5"	1'-6"	1'-0"	0.55	2230	3,150
6"	4'-0"	3'-0"	2'-7"	2'-0"	1'-0"	1.15	4650	7,070
8"	4'-6"	3'-0"	3'-0"	2'-3"	1'-3"	1.50	6075	12,570
10"	5'-2"	3'-0"	3'-2"	2'-7"	1'-3"	1.81	7330	19,635
12"	5'-9"	3'-0"	3'-8"	2'-10 1/2"	1'-8"	2.34	9475	28,775
14"	6'-6"	3'-0"	4'-0"	3'-3"	1'-9"	2.89	11,700	38,490
16"	6'-9"	3'-0"	4'-9"	3'-3"	2'-3"	3.56	14,410	50,270

- NOTES:**
- ALL WATER MAINS GREATER THAN 16" I.D. SHALL BE INDIVIDUALLY CALCULATED BY ENGINEER.
 - SOIL CONDITIONS SHALL BE VERIFIED BY THE ENGINEER BEFORE THRUST RESTRAINT DESIGN IS IMPLEMENTED.
 - PIPE MUST BE DUCTILE IRON.
- DESIGN DATA:**
- DIMENSION OF THRUST RESTRAINT IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE AND 250 P.S.I. TEST PRESSURE. ACTUAL INSIDE DIAMETER OF DUCTILE IRON PIPE, CLASS 51, USED AS STANDARD.
 - CONCRETE SHALL BE CLASS A, 3000 P.S.I.
 - UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.

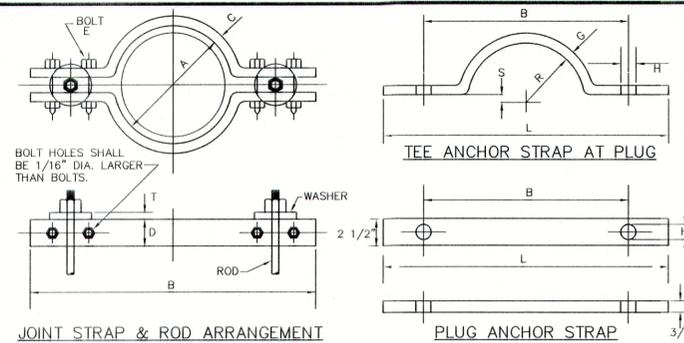
1 THRUST RESTRAINT: CONCRETE COLLAR NTS

2 THRUST RESTRAINT: HORIZONTAL BLOCKING NTS

PIPE SIZE	END AREA OF BLOCK AT FITTING (8 x 8)	MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING			CU. YDS.	
		FITTING	L	D		W
6"	0.25 (6" x 6")	11.25"	0'-6"	1.0	1.4	0.62
		22.5"	0'-6"	1.2	2.3	0.94
		45"	1'-3"	1.6	3.2	1.13
		90"	1'-6"	2.2	4.4	0.38
8"	0.44 (8" x 8")	11.25"	1'-3"	1.8	3.7	0.18
		22.5"	0'-6"	1.1	2.1	0.92
		45"	1'-0"	1.6	3.1	0.10
		90"	1'-6"	2.2	4.3	0.27
10"	0.69 (10" x 10")	11.25"	2'-0"	2.9	5.9	0.68
		22.5"	0'-6"	2.5	4.9	0.40
		45"	1'-3"	1.9	3.8	0.18
		90"	1'-6"	2.6	5.3	0.47
12"	1.00 (12" x 12")	11.25"	2'-0"	3.0	6.0	0.69
		22.5"	0'-6"	1.6	3.1	0.08
		45"	1'-3"	2.3	4.5	0.26
		90"	2'-0"	3.1	6.2	0.78
14"	1.38 (14" x 14")	11.25"	2'-0"	4.3	8.5	2.08
		22.5"	0'-6"	3.8	7.1	1.23
		45"	1'-0"	1.8	3.7	0.15
		90"	1'-6"	2.6	5.2	0.41
16"	1.78 (16" x 16")	11.25"	2'-0"	4.9	9.8	3.22
		22.5"	0'-6"	4.1	8.3	1.81
		45"	1'-0"	2.1	4.2	0.19
		90"	1'-6"	2.9	5.9	0.62
18"	2.25 (18" x 18")	11.25"	2'-0"	5.6	11.2	4.80
		22.5"	0'-6"	4.7	9.5	2.79
		45"	1'-0"	2.2	4.5	0.23
		90"	1'-6"	3.2	6.4	0.83
20"	2.78 (20" x 20")	11.25"	2'-0"	6.1	12.2	5.99
		22.5"	0'-6"	5.9	11.7	4.59
		45"	1'-3"	2.6	5.2	0.38
		90"	2'-0"	3.7	7.4	1.10
24"	4.00 (24" x 24")	11.25"	2'-0"	7.0	14.0	8.48
		22.5"	0'-6"	6.1	12.2	5.99
		45"	1'-0"	3.8	7.7	1.18
		90"	1'-6"	5.1	10.2	3.33
30"	6.25 (30" x 30")	11.25"	2'-0"	8.7	17.4	18.72
		22.5"	0'-6"	7.0	14.0	8.48
		45"	1'-0"	4.6	9.2	1.90
		90"	1'-6"	6.5	13.0	6.05
36"	9.00 (36" x 36")	11.25"	2'-0"	9.1	18.2	18.57
		22.5"	0'-6"	8.7	17.4	18.72
		45"	1'-0"	5.1	10.2	3.33
		90"	1'-6"	7.4	14.8	11.10



- NOTES:**
- POUR BLOCKING AGAINST UNDISTURBED EARTH WHEN OVEREXCAVATION OCCURS.
- DESIGN DATA:**
- DIMENSION OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE. ACTUAL OUTSIDE DIA. OF DIP, 250 PSI TEST PRESSURE.
 - UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.



STEEL SOCKET CLAMP DIMENSIONS (INCHES)

SIZE	A	B	C	D	E	T	ROD, C & WASH. SIZE
6	7 1/8	17 7/8	1/2	2	5/8 X 3 1/2	5/8	3/4
8	9 5/16	19 1/8	5/8	2 1/2	5/8 X 3 3/4	5/8	3/4
10	11 1/2	21 3/8	5/8	2 1/2	3/4 X 3 3/4	3/4	3/4
12	13 1/2	25 1/8	5/8	3	7/8 X 4 1/2	3/4	3/4
14	15 3/4	28 1/4	3/4	3	7/8 X 4 1/2	7/8	3/4
16	17 7/8	31 3/8	3/4	4	1 X 4 1/2	7/8	3/4
20	22 1/8	37 3/4	3/4	4 1/2	1 1/4 X 5	1 1/8	3/4
24	26 3/8	44 1/4	3/4	5	1 1/2 X 5 1/2	1 1/4	3/4

ABOVE ANCHOR STRAP DIMENSIONS (INCHES)

SIZE	B	G	H	L	R	S
6	12 1/8	5/8 X 2 1/2	13/16	14 1/2	3 9/16	3/4
8	14 3/8	5/8 X 2 1/2	13/16	16 3/4	4 21/32	3/4
10	16 11/16	5/8 X 2 1/2	1 1/16	19 1/16	5 3/4	3/4
12	19 3/16	5/8 X 3	1 1/16	22 5/16	6 3/4	7/8

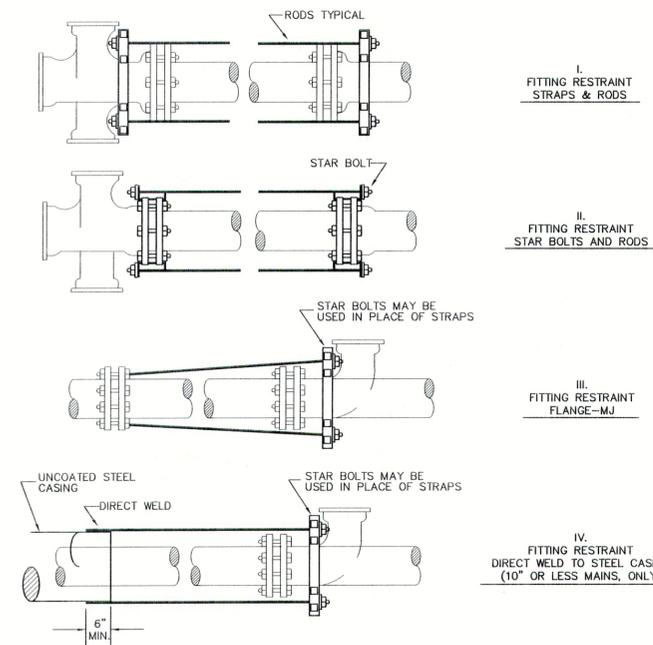
- NOTES:**
- INSTALLATION OF AND MATERIALS FOR RODS, CLAMPS, STRAPS, BOLTS AND WASHERS SHALL CONFORM TO THE NATIONAL FIRE CODES - NFPA NO. 24 LATEST REVISION.
 - YOKES AND ANCHOR STRAPS FOR FITTINGS LARGER THAN 12" SHALL BE DESIGNED AND APPROVED FOR SPECIFIC INSTALLATION.
 - RODS TO BE HIGH TENSILE, HOT ROLLED STEEL WITH TENSILE STRENGTH OF 110,000 P.S.I. AND A MIN. OF 95,000 YIELD STRENGTH.
 - NUTS TO HAVE HEAVY DUTY SEMI-FINISH WITH NATIONAL COURSE THREADS.
 - AFTER INSTALLATION TIE RODS AND CLAMP ASSEMBLY SHALL BE THOROUGHLY COVERED WITH ROYSTON LABS, INC. ROSKOTE MASTIC NO A939, OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.

3 THRUST RESTRAINT: STRAP AND ROD DETAIL NTS

	PIPE SIZE	ROD DIA.	NO. RODS	TOTAL THRUST (lbs)
TEES, PLUGS & VALVES	6"	3/4"	2	5,655
	8"	3/4"	2	10,055
	10"	3/4"	2	15,710
	12"	3/4"	2	22,620
	14"	3/4"	2	30,800
	16"	3/4"	2	40,215
11 1/4' BEND	6"	3/4"	2	62,835
	8"	3/4"	2	90,480
	10"	3/4"	2	141,375
	12"	3/4"	2	203,595
	14"	3/4"	2	2,110
	16"	3/4"	2	1,970
22 1/2' BEND	6"	3/4"	2	3,080
	8"	3/4"	2	4,435
	10"	3/4"	2	6,035
	12"	3/4"	2	7,885
	14"	3/4"	2	12,320
	16"	3/4"	2	17,740
45' BEND	6"	3/4"	2	27,720
	8"	3/4"	2	39,910
	10"	3/4"	2	2,210
	12"	3/4"	2	3,925
	14"	3/4"	2	6,130
	16"	3/4"	2	8,825
90' BEND	6"	3/4"	2	12,015
	8"	3/4"	2	15,690
	10"	3/4"	2	24,515
	12"	3/4"	2	35,305
	14"	3/4"	2	55,160
	16"	3/4"	2	79,435
90' BEND	6"	3/4"	2	4,430
	8"	3/4"	2	7,700
	10"	3/4"	2	12,025
	12"	3/4"	2	17,312
	14"	3/4"	2	23,565
	16"	3/4"	2	30,780
90' BEND	6"	3/4"	2	48,090
	8"	3/4"	2	69,250
	10"	3/4"	2	108,205
	12"	3/4"	2	155,810
	14"	3/4"	2	8,000
	16"	3/4"	2	14,220
90' BEND	6"	3/4"	2	22,214
	8"	3/4"	2	32,000
	10"	3/4"	2	43,540
	12"	3/4"	2	56,870
	14"	3/4"	2	88,860
	16"	3/4"	2	127,960
90' BEND	6"	3/4"	4	199,930
	8"	3/4"	4	287,900
	10"	3/4"	4	8,000
	12"	3/4"	4	14,220
	14"	3/4"	4	22,214
	16"	3/4"	4	32,000

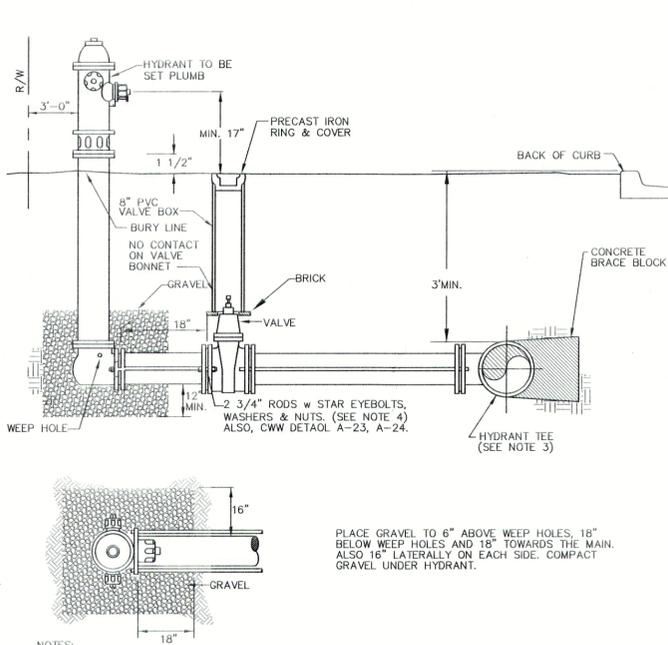
- NOTES:**
- BASED UPON ROD & NUT HAVING MIN. YIELD STRENGTH OF 95,000 P.S.I.
 - RODS HAVE 6" OF THREAD ON EACH END.
 - ALL METAL TO BE CLEANED AND COATED WITH AN APPROVED PROTECTIVE COATING FOLLOWING INSTALLATION AND PRIOR TO BACKFILLING. (SEE NOTE 5, DWG. A-25 FOR COATING DETAILS).

4 THRUST RESTRAINT: TIE-ROD CHART NTS



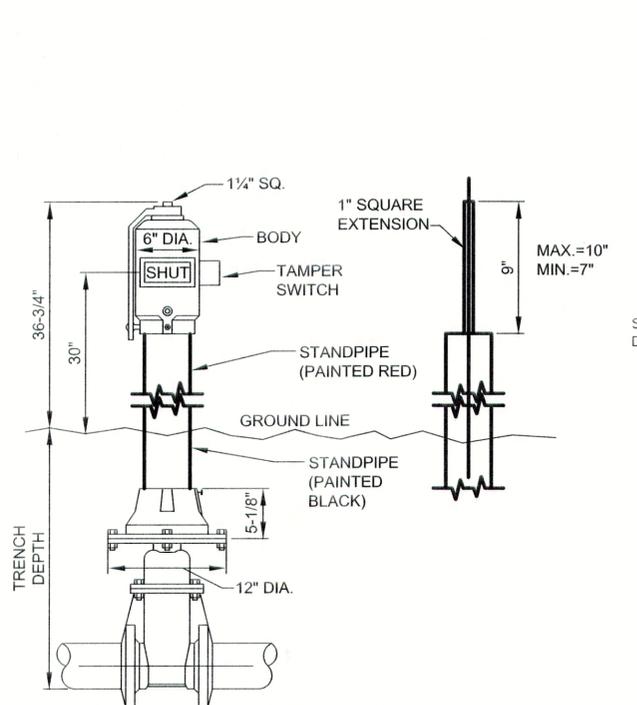
- NOTES:**
- SEE DWG. A-23 FOR NUMBER AND DIAMETER OF RODS REQUIRED.
 - NO FLANGED JOINTS ARE TO BE BURIED.
 - AFTER INSTALLATION, TIE-RODS AND CLAMP ASSEMBLIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ROYSTON LABORATORIES, INC. ROSKOTE MASTIC NO. A939 OR KOPPERS CO. INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.
 - WHEN RESTRAINING FITTINGS TO STEEL CASING PIPE, THE TIE-RODS MUST BE DIRECT WELDED TO THE CASING. USE OF STAR BOLTS PROHIBITED. CASING MUST BE FULLY WELDED THROUGHOUT ITS LENGTH AND BE A MINIMUM OF 30' IN LENGTH. AREA TO BE WELDED MUST BE COMPLETELY BARE AND FREE OF ANY COATING MATERIAL.

5 THRUST RESTRAINT: TIE-ROD INSTALLATION NTS

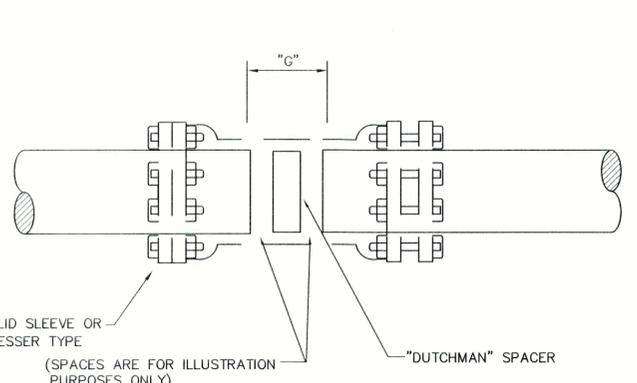


- NOTES:**
- RODS TO BE HIGH TENSILE, HOT ROLLED STEEL WITH TENSILE STRENGTH OF 110,000 P.S.I. AND A MINIMUM YIELD STRENGTH OF 95,000 P.S.I.
 - FOR ALL WATER MAINS IN COUNTY, STATE, OR FEDERAL R/W'S - MINIMUM TRENCH DEPTH SHALL BE 4'-0" FROM TOP OF CURB.
 - IF REGULAR TEE USED, MINIMUM NIPPLE LENGTHS SHALL BE 12".
 - IF SUITABLE LENGTH ANCHOR COUPLINGS ARE USED, RODS MAY BE OMITTED.
 - SPACE HYDRANTS AS SHOWN ON APPROVED PLAN
 - FIRE HYDRANTS SHALL BE PROVIDED WITH A 5 INCH STORZ CONNECTION. THE STORZ CONNECTION SHALL BE A 5" METAL FACE X 4-1/2" NH (F) SET SCREW, HIGH VISIBILITY WITH HYDRANT NUT CAP. THE COLOR SHALL BE POWDER COATED YELLOW WITH HIGH VISIBILITY REFLECTIVE TAPE.

6 FIRE HYDRANT ASSEMBLY NTS

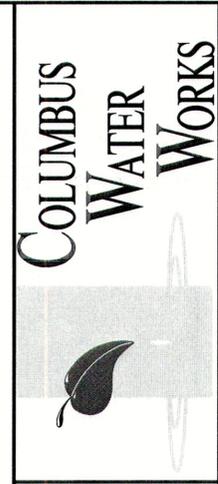


7 POST INDICATOR VALVE NTS



- 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 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, DWG. A-25 FOR COATING DETAILS.

8 SOLID SLEEVE DETAIL NTS



DESIGNED BY: BARGE DESIGN SOLUTIONS

MISCELLANEOUS DETAILS
BUILDING 241 FIRE LINE
FT. BENNING, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		05/15/20	REVIEW SUBMITTAL

C-502
PROJ. NO. 20-209

PLOT DATE: 5/18/2020
BY: JTWEBB
LAST SAVED: 5/16/2020
CREATED: 5/16/2020