

AUGUSTA, GEORGIA
535 TELFAIR STREET, AUGUSTA, GA 30901

AUGUSTA FIRE STATION #3

AUGUSTA, GEORGIA



AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901

FIRE STATION #3

PROJECT NAME

2848 GORDON HWY., AUGUSTA, GA 30909

CG 001



DATE	REV	DESCRIPTION
07/22/22	1	RESUBMITAL TO AISC
09/29/20	2	RESUBMITAL TO AISC
02/22/20	3	RESUBMITAL TO AISC
02/22/20	4	RESUBMITAL TO AISC
02/22/20	5	RESUBMITAL TO AISC
02/22/20	6	RESUBMITAL TO AISC
12/21/18	7	ISSUED FOR BID
12/21/18	8	ISSUED FOR BID
12/21/18	9	ISSUED FOR BID

PROJECT NO: 3042.1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17

COVER SHEET

SCALE: AS NOTED
DRAWING NO: CG001
REV: 4

PROJECT LOCATION: 2848 GORDON HWY., AUGUSTA, GA 30909

CG 001

REV: 4

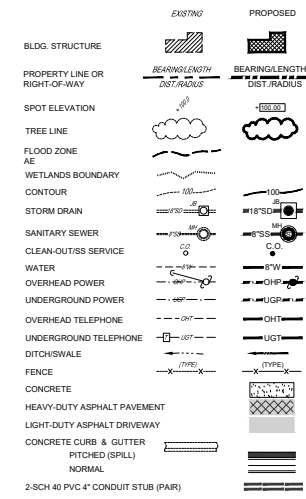
DATE: 10/18/17

SCALE: AS NOTED

E.S.P.C. NOTES:

1. THIS PROJECT DOES NOT LIE WITHIN THE 100-YR FLOOD PLAN OR FLOODWAY PER FIRM NO. 13245C0085 DATED NOVEMBER 11, 2019
2. THERE ARE NO STATE WATERS PRESENT ON OR WITHIN 200 FEET OF THE PROJECT LIMITS WITH NO BUFFER REQUIREMENT. (CHECKLIST ITEM NO. 16, 41 & 42)
3. WETLANDS ARE NOT PRESENT ON OR WITHIN 200 FEET OF THE PROJECT LIMITS. (CHECKLIST ITEM NO. 42)
4. ALL CRITICAL AREAS SUCH AS STREAM CROSSING, WETLANDS, CEMETERY, ETC. ARE NOTED IN THE PLANS WITHIN THE PROJECT LIMIT
5. EROSION AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED WITHIN THE DISTURBED AREA. (CHECKLIST ITEM NO. 22)
6. "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES". (CHECKLIST ITEM NO. 19)
7. "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE". (CHECKLIST ITEM NO. 20)
8. "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING". (CHECKLIST ITEM NO. 21)
9. THERE ARE NO ENDANGERED SPECIES AND ARCHEOLOGICAL SITES ON OR WITHIN 200 FEET OF THE PROJECT AREA.
10. THIS CONSTRUCTION ACTIVITY DOES NOT DISCHARGE DIRECTLY TO BUT IS WITHIN 1 LINEAR MILE OF AN IMPAIRED STREAM SEGMENT PER 2014 INTEGRATED 305(b)(303)(D) LIST OF STREAMS. THE IMPAIRED STREAM SEGMENT IS ROCKY CREEK (TRIBUTARY TO SAVANNAH RIVER IN AUGUSTA). CRITERION VIOLATED IS "BIO" (IMPAIRED MACROINVERTEBRATE COMMUNITY) (CHECKLIST ITEM NO. 23)
11. A TMDL IMPLEMENTATION PLAN FOR THE IMPAIRED STREAM SEGMENT HAS NOT BEEN FINALIZED PER THE 2016 INTEGRATED 305(b)(303)(D) LIST OF STREAMS. (CHECKLIST ITEM NO. 23)
12. DEVELOPERS AND/OR CONTRACTORS ARE RESPONSIBLE TO REMOVE OR CLEAN UP ANY SILT, DIRT, MUD OR ANY OTHER DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND OR A COUNTY OWNED POND. THEY ARE RESPONSIBLE TO REMOVE ANY OF THE ABOVE MENTIONED ITEMS THAT COME OFF THEIR SITE ONTO PRIVATE OR COUNTY OWNED PROPERTIES TO INCLUDE RIGHTS-OF-WAY.
13. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COSTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. (CHECKLIST ITEM NO. 15)
14. AMENDMENTS/REVISIONS TO THE EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. (CHECKLIST ITEM NO. 17)
15. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. (CHECKLIST ITEM NO. 18)
16. THE CONTRACTOR SHALL COMPLY WITH THE "GEORGIA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS FOR WASTE DISPOSAL, SANITARY SEWER AND/OR SEPTIC TANK INCLUDING ALL TEMPORARY MEASURES DURING CONSTRUCTION AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED"
17. FINAL GRADING WILL CONSIST OF SPREADINGS TOPSOIL (4" MIN. TO FINISHED GRADES INDICATED) ON ALL DISTURBED AREAS NOT PAVED.
18. ALL DISTURBED AREAS WILL BE GRASSED AND STABILIZED IMMEDIATELY AFTER GRADING ACCORDING TO THE GRASSING, FERTILIZATION AND MULCH SPECIFICATION.
19. STABILIZATION MEASURES SHALL BE INITIATED ON DISTURBED AREAS WITHIN 14 DAYS OF CESSATION OF CONSTRUCTION ACTIVITY IN THAT AREA, OR WHEN CONSTRUCTION ACTIVITY WILL NOT RESUME WITHIN TWENTY-ONE (21) DAYS OR WITHIN FOURTEEN (14) DAYS OF COMPLETION OF CONSTRUCTION ACTIVITY.
20. STORM WATER SAMPLING WILL BE DONE UTILIZING THE OUTFALL SAMPLING METHOD; THEREFORE, THE ALLOWABLE NTU VALUES FOR THE STORM WATER OUTFALLS ARE BASED ON THE TABLE LOCATED IN APPENDIX B OF THE PERMIT. 1.6 ACRES OF THE SITE WILL BE DISTURBED BY CONSTRUCTION. THE TOTAL SURFACE WATER DRAINAGE AREA TO BOTH SAMPLE POINT #1 AND #2 IS APPROXIMATELY 0.001 SQUARE MILES. SAMPLE POINTS ARE LOCATED IN A WARM WATER FISHERY; THEREFORE, THE NTU VALUE FOR BOTH OUTFALLS IS 75. SEE DRAWING CE-101A AND CE-101B FOR SAMPLE POINT LOCATIONS. (CHECKLIST ITEM NO. 34)
21. THE CONTRACTOR IS RESPONSIBLE TO REMOVE OR CLEAN UP ANY AND ALL SEDIMENT THAT LEAVES THE PROJECT SITE.
22. PROJECT DISTURBED AREA DOES NOT EXCEED 60 ACRES. (CHECKLIST ITEM NO. 3)
23. DURING CONSTRUCTION, PORT-O-LET FACILITIES WILL BE UTILIZED FOR WASTE DISPOSAL.
24. THE DESIGN PROFESSIONAL WHO PREPARED THE E&S&P PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT CONTROL STRUCTURES AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. (CHECKLIST ITEM NO. 14)
25. THE DESIGN PROFESSIONAL WHO PREPARED THE E&S&P PLAN IS TO INSPECT THE DEVELOPMENT (LID) FEATURES SHALL CONDUCT A POST-CONSTRUCTION SITE VISIT TO ASSESS THE INSTALLATION OF THE AS-BUILT FEATURES.

SITE LEGEND



PROJECT DATA

OWNER (PRIMARY PERMITTEE):
AUGUSTA, GA
535 TELFAIR STREET
AUGUSTA, GA 30901

OWNER'S CONTACT:
CHIEF ANTONIO BURDEN
P: 706-821-4230
E: ABurden@augusta.gov

OWNER'S ENGINEER:
JOHNSON, LASCHOB & ASSOCIATES, P.C.
WILLIAM T. BUCHANAN, P.E.
1296 BROAD STREET
AUGUSTA, GA 30901
P: 706-724-5756
E: wtbuchanan@theJLAGroup.com

PARCEL NO.: 066-0-053-00-0

PROPERTY ADDRESS: 2649 GORDON HWY
AUGUSTA, GA 30909

TOTAL AREA: 2.10 ACRES

G.M.D.: 119TH

GSWCC REGION: REGION III
BRIER CREEK
BUTLER CREEK

RECEIVING WATERS: BUTLER CREEK

SITE INFORMATION:
LAND USE: CIVIC/PUBLIC SAFETY
CONSTRUCTION TYPE: LAND DISTURBANCE

PROPERTY COORDINATES: 33.4424° N, -82.1260° W

DISTURBED AREA: 2.10 ACRES

ZONING: R-3B & A

BUILDING AREA: ± 10,840 SF

BUILDING SETBACKS: FRONT: 40'
SIDE: 10'

EXISTING IMPERVIOUS AREA: 0 ACRES

PROPOSED IMPERVIOUS AREA: 1.0 ACRES

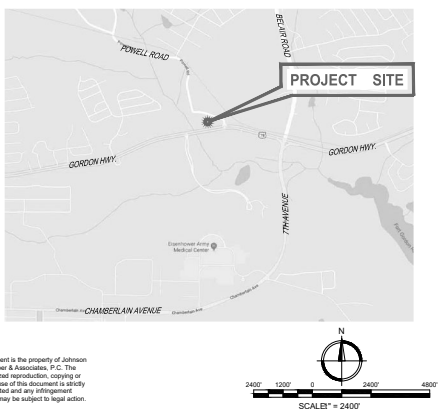
NPDES INFORMATION

OUTFALL INFORMATION:
PRE-DEVELOPED BASIN
POST-DEVELOPED BASIN

BASIN INFORMATION:
RECEIVING BASIN: TRIBUTARY TO BUTLER CREEK

SCS CURVE NUMBER: 78
SCS CURVE NUMBER: 82

PROJECT LOCATION MAP



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GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS AND LICENSES AS REQUIRED BY CITY OF AUGUSTA NECESSARY FOR CONSTRUCTION.
3. ALL DRAINAGE EASEMENTS AND DISTURBED AREAS MUST BE GRASSED AND/OR RIPRAPPED AS REQUIRED TO CONTROL EROSION.
4. ALL CONSTRUCTION WITHIN THE CITY OF AUGUSTA RIGHTS-OF-WAY SHALL CONFORM TO AUGUSTA, GEORGIA STANDARDS AND SPECIFICATIONS.
5. ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIERS INSTALLATION IS COMPLETED.
6. CONTRACTOR SHALL CONTACT THE INSPECTION DIVISION OF THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING WORK ON THE PROJECT. THE PHONE NUMBER FOR THIS OFFICE IS _____
7. THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES LOCATED ON THE PROPERTY. IF GRAVE SITES OR CEMETERIES ARE DISCOVERED DURING CONSTRUCTION, INFORMATION MUST BE SUBMITTED TO THE PLANNING COMMISSION IMMEDIATELY.
8. A PRE CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE ENGINEERING DEPARTMENT AT THE TIME THE NOTIFICATION OF WORK COMMENCEMENT IS GIVEN.
9. ALL BOXES HAVING A DEPTH OF 4'-0" OR GREATER SHALL HAVE STEPS. MANHOLE COVER SHALL BE LOCATED SUCH THAT STEPS CAN BE READILY ACCESSIBLE.
10. NO MARQUEE, ISLANDS, OR SPRINKLER SYSTEM TO BE LOCATED WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING PIPES AND ROAD GRADE ELEVATIONS OF EXISTING ROADS BEFORE BEGINNING CONSTRUCTION.
11. NOTIFY THE CITY ENGINEER'S OFFICE 48 HRS. PRIOR TO STARTING CONSTRUCTION, POURING TRAP TOPS, DUMPING BASE OR PAVING.
12. APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ADHERING TO THE WEIGHT LIMITS PRESCRIBED ON STATE, COUNTY & CITY MAINTAINED ROADS FOR HAULING EQUIPMENT OR MATERIALS TO & FROM THIS SITE.
13. THE CONTRACTOR IS RESPONSIBLE TO REMOVE OR CLEAN UP ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THE SITE AND FINDS ITS WAY INTO PRIVATE PONDS OR A COUNTY OWNED POND. THEY ARE RESPONSIBLE TO REMOVE ANY OF THE ABOVE MENTIONED ITEMS THAT COME OFF THE SITE ONTO PRIVATE, COUNTY OR STATE OWNED PROPERTIES TO INCLUDE RIGHTS-OF-WAY.
14. A CAD FILE WILL BE PROVIDED FOR SITE GEOMETRY STAKING.
15. UTILITY CONTACT INFORMATION (CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION):
WATER & SEWER AUGUSTA UTILITY DEPART. (706) 842-3060
NATURAL GAS GEORGIA NATURAL GAS (877) 424-4321
ELECTRICITY GEORGIA POWER CO. 1-888-691-0938
COMMUNICATIONS _____

STORMWATER QUALITY FEATURES

BSIN	SWO	SHEET NO.	LOCATION	TYPE	MANUFACTURER & MODEL NO.	FLOW CAPACITY (CFS)
1	1	C-201	STR. A-1	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	2	C-201	STR. A-2	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	3	C-201	STR. A-2.1	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	4	C-201	STR. A-4	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	5	C-201	STR. B-1	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	6	C-201	STR. B-2	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	7	C-201	STR. B-3	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	8	C-201	STR. B-4	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	9	C-201	POND	DRY DETENTION POND	N/A	N/A
1	10	C-201	STR. A-2A	FLEXSTORM PURE INLET FILTER	ADS FRAME; 62XLHD BAG; PC	7.2
1	11	C-201	STR. A-3	FLEXSTORM PURE INLET FILTERS	ADS FRAME; 62XLHD BAG; PC	7.2

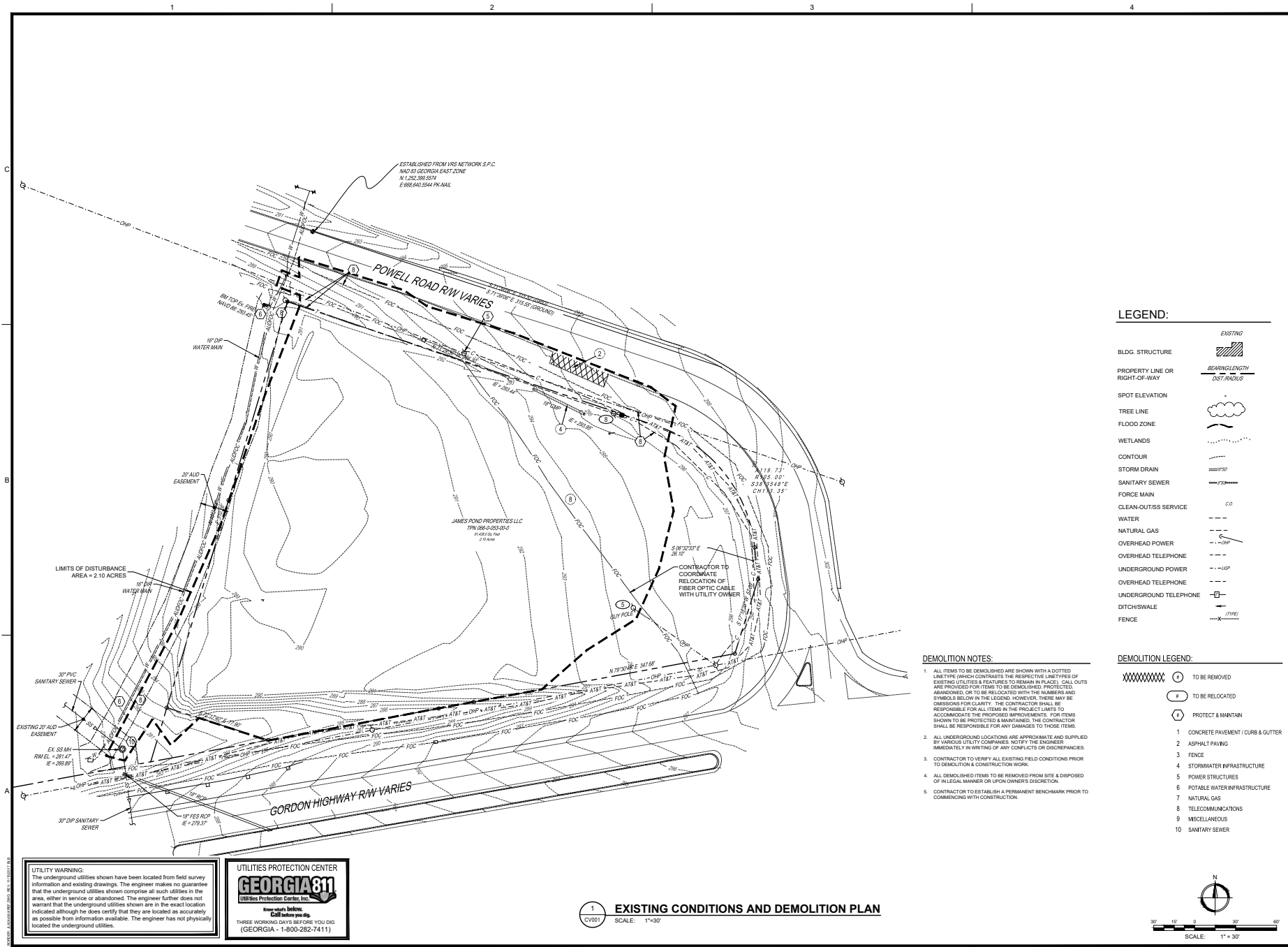
UTILITY WARNINGS:
The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

1

2

3

4



LEGEND:

- EXISTING
- BLDG. STRUCTURE
- PROPERTY LINE OR RIGHT-OF-WAY
- SPOT ELEVATION
- TREE LINE
- FLOOD ZONE
- WETLANDS
- CONTOUR
- STORM DRAIN
- SANITARY SEWER
- FORCE MAIN
- CLEAN-OUTS SERVICE
- WATER
- NATURAL GAS
- OVERHEAD POWER
- UNDERGROUND POWER
- OVERHEAD TELEPHONE
- UNDERGROUND TELEPHONE
- DITCH/SWALE
- FENCE

DEMOLITION NOTES:

1. ALL ITEMS TO BE DEMOLISHED ARE SHOWN WITH A DOTTED LINE TYPE (WHICH CONTRASTS THE RESPECTIVE LINE TYPES OF EXISTING UTILITIES & FEATURES) TO REMAIN IN PLACE. CALL OUTS ARE PROVIDED FOR ITEMS TO BE DEMOLISHED, PROTECTED, ABANDONED, OR TO BE RELOCATED WITH THE NUMBERS AND SYMBOLS BELOW IN THE LEGEND. HOWEVER, THERE MAY BE OMISSIONS FOR CLARITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ITEMS IN THE PROJECT LIMITS TO ACCOMMODATE THE PROPOSED IMPROVEMENTS. FOR ITEMS SHOWN TO BE PROTECTED & MAINTAINED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THOSE ITEMS.
2. ALL UNDERGROUND LOCATIONS ARE APPROXIMATE AND SUPPLIED BY VARIOUS UTILITY COMPANIES. NOTIFY THE ENGINEER IMMEDIATELY IN WRITING OF ANY CONFLICTS OR DISCREPANCIES.
3. CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO DEMOLITION & CONSTRUCTION WORK.
4. ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE & DISPOSED OF IN A LEGAL MANNER ON LIQUOR OWNER'S DISCRETION.
5. CONTRACTOR TO ESTABLISH A PERMANENT BENCHMARK PRIOR TO COMMENCING WITH CONSTRUCTION.

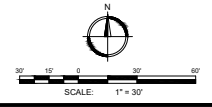
DEMOLITION LEGEND:

- TO BE DEMOLISHED
- TO BE RELOCATED
- PROTECT & MAINTAIN
- 1 CONCRETE PAVEMENT / CURB & GUTTER
- 2 ASPHALT PAVING
- 3 FENCE
- 4 STORMWATER INFRASTRUCTURE
- 5 POWER STRUCTURES
- 6 POTABLE WATER INFRASTRUCTURE
- 7 NATURAL GAS
- 8 TELECOMMUNICATIONS
- 9 MISCELLANEOUS
- 10 SANITARY SEWER

UTILITY WARNING:
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EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1"=30'



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AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3
PROJECT LOCATION: 2184 GORDON HWY., AUGUSTA, GA 30909

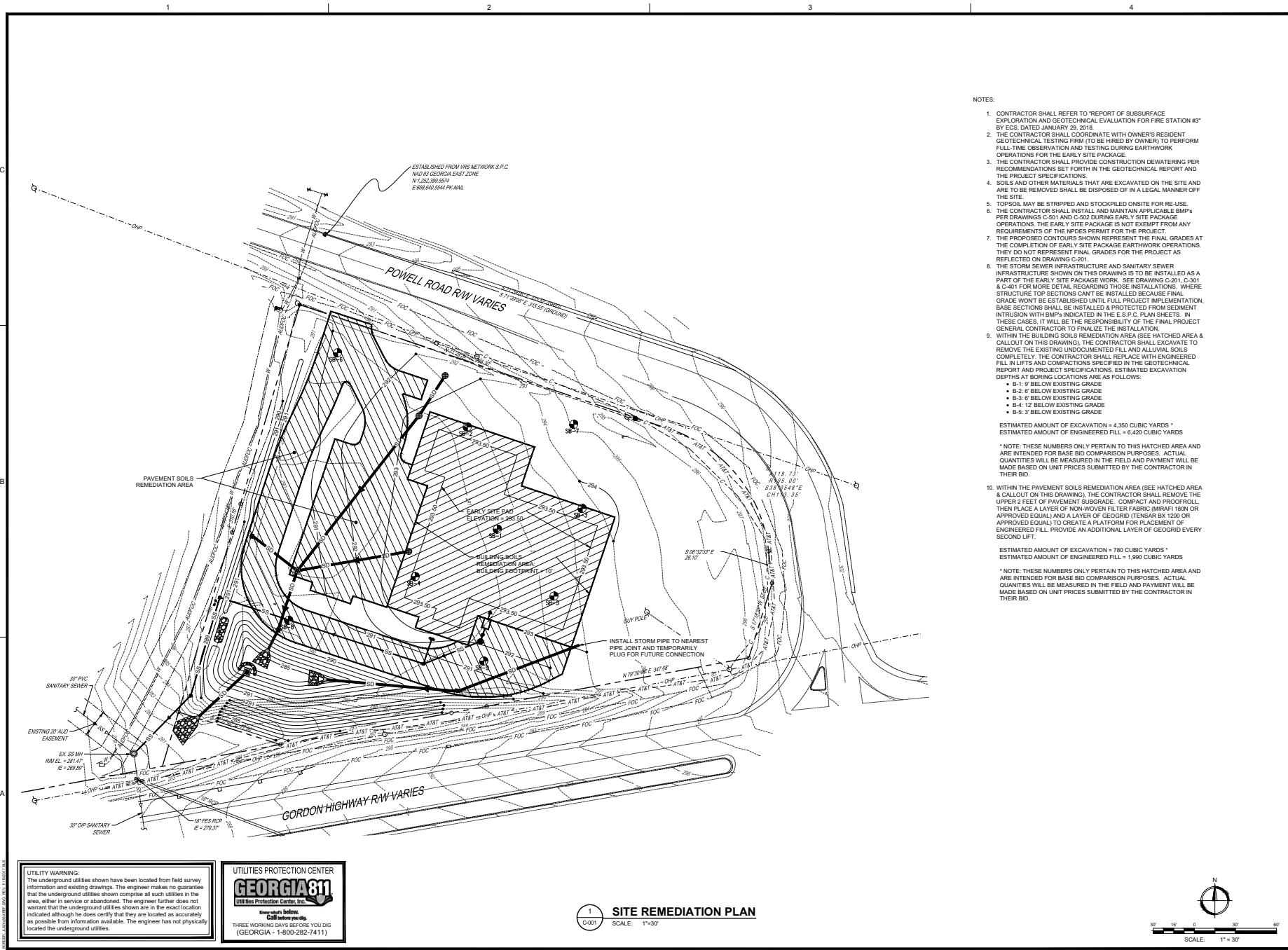


NO.	DATE	DESCRIPTION
1	07/22/22	WTB RE SUBMITTAL TO OASG
2	08/26/22	WTB RE SUBMITTAL TO OASG
3	09/20/22	WTB RE SUBMITTAL TO OASG
4	10/20/22	WTB RE SUBMITTAL TO OASG
5	10/20/22	WTB RE SUBMITTAL TO OASG
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PROJECT NO: 3042.1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1"=30'
DRAWING NO: **CV001**
REV: 4



- NOTES:
- CONTRACTOR SHALL REFER TO "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION FOR FIRE STATION #3" BY ECS, DATED JANUARY 29, 2018.
 - THE CONTRACTOR SHALL COORDINATE WITH OWNER'S RESIDENT GEOTECHNICAL TESTING FIRM (TO BE HIRED BY OWNER) TO PERFORM FULL-TIME OBSERVATION AND TESTING DURING EARTHWORK OPERATIONS FOR THE EARLY SITE PACKAGE.
 - THE CONTRACTOR SHALL PROVIDE CONSTRUCTION Dewatering PER RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS.
 - SOILS AND OTHER MATERIALS THAT ARE EXCAVATED ON THE SITE AND ARE TO BE REMOVED SHALL BE DISPOSED OF IN A LEGAL MANNER OFF THE SITE.
 - TOPSOIL MAY BE STRIPPED AND STOCKPILED ON-SITE FOR RE-USE.
 - THE CONTRACTOR SHALL INSTALL AND MAINTAIN APPLICABLE BMP'S PER DRAWINGS C-501 AND C-502 DURING EARLY SITE PACKAGE OPERATIONS. THE EARLY SITE PACKAGE IS NOT EXEMPT FROM ANY REQUIREMENTS OF THE NPDES PERMIT FOR THE PROJECT.
 - THE PROPOSED CONTOURS SHOWN REPRESENT THE FINAL GRADES AT THE COMPLETION OF EARLY SITE PACKAGE EARTHWORK OPERATIONS. THEY DO NOT REPRESENT FINAL GRADES FOR THE PROJECT AS REFLECTED ON DRAWING C-201.
 - THE STORM SEWER INFRASTRUCTURE AND SANITARY SEWER INFRASTRUCTURE SHOWN ON THIS DRAWING IS TO BE INSTALLED AS A PART OF THE EARLY SITE PACKAGE WORK. (SEE DRAWING C-201, C-301 & C-401 FOR MORE DETAIL REGARDING THOSE INSTALLATIONS. WHERE STRUCTURE TOP SECTIONS CAN'T BE INSTALLED BECAUSE FINAL GRADES WON'T BE ESTABLISHED UNTIL FULL PROJECT IMPLEMENTATION, BASE SECTIONS SHALL BE INSTALLED & PROTECTED FROM SEDIMENT INTRUSION WITH BMP'S INDICATED IN THE E.S.P.C. PLAN SHEETS. IN THESE CASES, IT WILL BE THE RESPONSIBILITY OF THE FINAL PROJECT GENERAL CONTRACTOR TO FINALIZE THE INSTALLATION.
 - WITHIN THE BUILDING SOILS REMEDIATION AREA (SEE HATCHED AREA & CALLOUT ON THIS DRAWING), THE CONTRACTOR SHALL EXCAVATE TO REMOVE THE EXISTING UNDOCUMENTED FILL AND ALLUVIAL SOILS COMPLETELY. THE CONTRACTOR SHALL REPLACE WITH ENGINEERED FILL IN LIFTS AND COMPACTIONS SPECIFIED IN THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS. ESTIMATED EXCAVATION DEPTHS AT BORING LOCATIONS ARE AS FOLLOWS:
 - B-1: 9' BELOW EXISTING GRADE
 - B-2: 6' BELOW EXISTING GRADE
 - B-3: 6' BELOW EXISTING GRADE
 - B-4: 12' BELOW EXISTING GRADE
 - B-5: 3' BELOW EXISTING GRADE

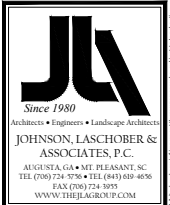
ESTIMATED AMOUNT OF EXCAVATION = 4,350 CUBIC YARDS *
 ESTIMATED AMOUNT OF ENGINEERED FILL = 6,420 CUBIC YARDS

*NOTE: THESE NUMBERS ONLY PERTAIN TO THIS HATCHED AREA AND ARE INTENDED FOR BASE BID COMPARISON PURPOSES. ACTUAL QUANTITIES WILL BE MEASURED IN THE FIELD AND PAYMENT WILL BE MADE BASED ON UNIT PRICES SUBMITTED BY THE CONTRACTOR IN THEIR BID.

10. WITHIN THE PAVEMENT SOILS REMEDIATION AREA (SEE HATCHED AREA & CALLOUT ON THIS DRAWING), THE CONTRACTOR SHALL REMOVE THE UPPER 2 FEET OF PAVEMENT SUBGRADE. COMPACT AND PROFFER, THEN PLACE A LAYER OF NON-WOVEN FILTER FABRIC (MIRAF1 160N OR APPROVED EQUAL) AND A LAYER OF GEORGRID (TENSAR GX 1200 OR APPROVED EQUAL) TO CREATE A PLATFORM FOR PLACEMENT OF ENGINEERED FILL. PROVIDE AN ADDITIONAL LAYER OF GEORGRID EVERY SECOND LIFT.

ESTIMATED AMOUNT OF EXCAVATION = 780 CUBIC YARDS *
 ESTIMATED AMOUNT OF ENGINEERED FILL = 1,990 CUBIC YARDS

*NOTE: THESE NUMBERS ONLY PERTAIN TO THIS HATCHED AREA AND ARE INTENDED FOR BASE BID COMPARISON PURPOSES. ACTUAL QUANTITIES WILL BE MEASURED IN THE FIELD AND PAYMENT WILL BE MADE BASED ON UNIT PRICES SUBMITTED BY THE CONTRACTOR IN THEIR BID.



JOHNSON, LASCHOB & ASSOCIATES, P.C.
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PROJECT NO. 30422 1604
 AUGUSTA, GA
 535 TELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3
 PROJECT LOCATION
 2884 GORDON HWY., AUGUSTA, GA 30909



REV	DATE	DESCRIPTION
4	07/29/22	WTB RE-SUBMITAL #2 TO ARS
3	08/26/20	WTB RE-SUBMITAL #1 TO ARS
2	02/20/20	WTB RE-SUBMITAL #1 TO ARS
1	02/20/20	WTB RE-SUBMITAL #1 TO ARS
0	12/21/18	WTB ISSUED FOR BID

PROJECT NO. 30422 1604
 DRAWN BY: WTB
 CHECKED BY: WLD
 DATE: 10/18/17

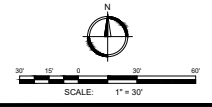
SITE REMEDIATION PLAN

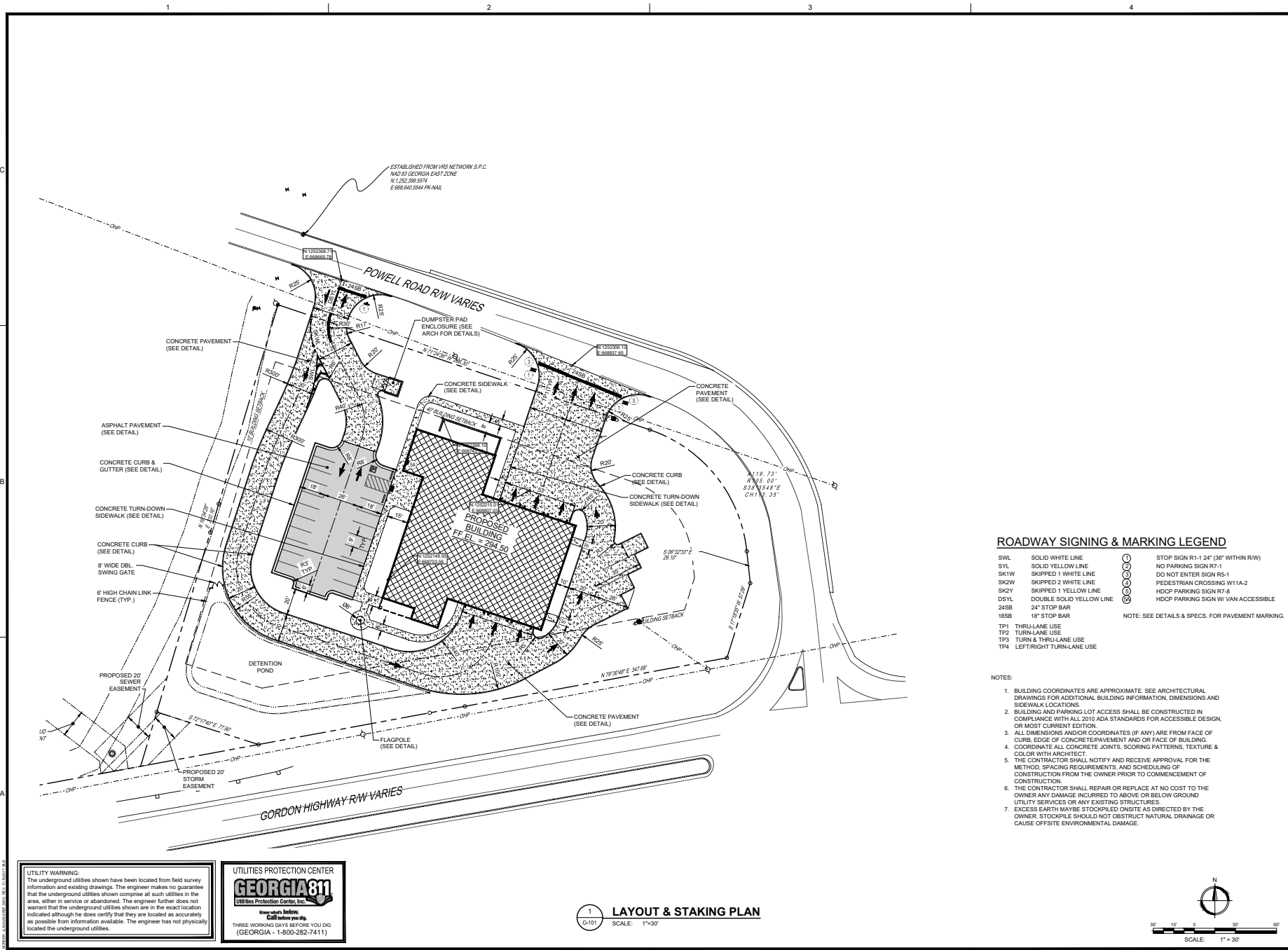
SCALE: 1" = 30'
 DRAWING NO. **C-001**
 SHEET TITLE: **C-001**
 SCALE: 1" = 30'
 REV. 4

UTILITY WARNING:
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1 SITE REMEDIATION PLAN
 C-001 SCALE: 1"=30'

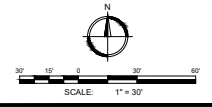




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1 LAYOUT & STAKING PLAN
SCALE: 1"=30'



ROADWAY SIGNING & MARKING LEGEND

- | | | | |
|------|--------------------------|---|--|
| SWL | SOLID WHITE LINE | ⓪ | STOP SIGN R1-1 24" (36" WITHIN RW) |
| SYL | SOLID YELLOW LINE | Ⓛ | NO PARKING SIGN R7-1 |
| SK1W | SKIPPED 1 WHITE LINE | Ⓚ | DO NOT ENTER SIGN R5-1 |
| SK2W | SKIPPED 2 WHITE LINE | Ⓚ | PEDESTRIAN CROSSING W11A-2 |
| SK2Y | SKIPPED 1 YELLOW LINE | Ⓚ | HDCP PARKING SIGN R7-8 |
| DSYL | DOUBLE SOLID YELLOW LINE | Ⓛ | HDCP PARKING SIGN W/ VAN ACCESSIBLE |
| 24SB | 24" STOP BAR | Ⓛ | 24" STOP BAR |
| 18SB | 18" STOP BAR | Ⓛ | 18" STOP BAR |
| TP1 | THRU-LANE USE | Ⓛ | NOTE: SEE DETAILS & SPECS. FOR PAVEMENT MARKING. |
| TP2 | TURN-LANE USE | Ⓛ | |
| TP3 | TURN & THRU-LANE USE | Ⓛ | |
| TP4 | LEFT/RIGHT TURN-LANE USE | Ⓛ | |

- NOTES:**
- BUILDING COORDINATES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL BUILDING INFORMATION, DIMENSIONS AND SIDEWALK LOCATIONS.
 - BUILDING AND PARKING LOT ACCESS SHALL BE CONSTRUCTED IN COMPLIANCE WITH ALL 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, OR MOST CURRENT EDITION.
 - ALL DIMENSIONS AND/OR COORDINATES (IF ANY) ARE FROM FACE OF CURB, EDGE OF CONCRETE PAVEMENT AND/OR FACE OF BUILDING. COORDINATE ALL CONCRETE JOINTS, SCORING PATTERNS, TEXTURE & COLOR WITH ARCHITECT.
 - THE CONTRACTOR SHALL NOTIFY AND RECEIVE APPROVAL FOR THE METHOD, SPACING REQUIREMENTS, AND SCHEDULING OF CONSTRUCTION FROM THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO COST TO THE OWNER ANY DAMAGE INCURRED TO ABOVE OR BELOW GROUND UTILITY SERVICES OR ANY EXISTING STRUCTURES.
 - EXCESS EARTH MAYBE STOCKPILED ON-SITE AS DIRECTED BY THE OWNER. STOCKPILES SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.

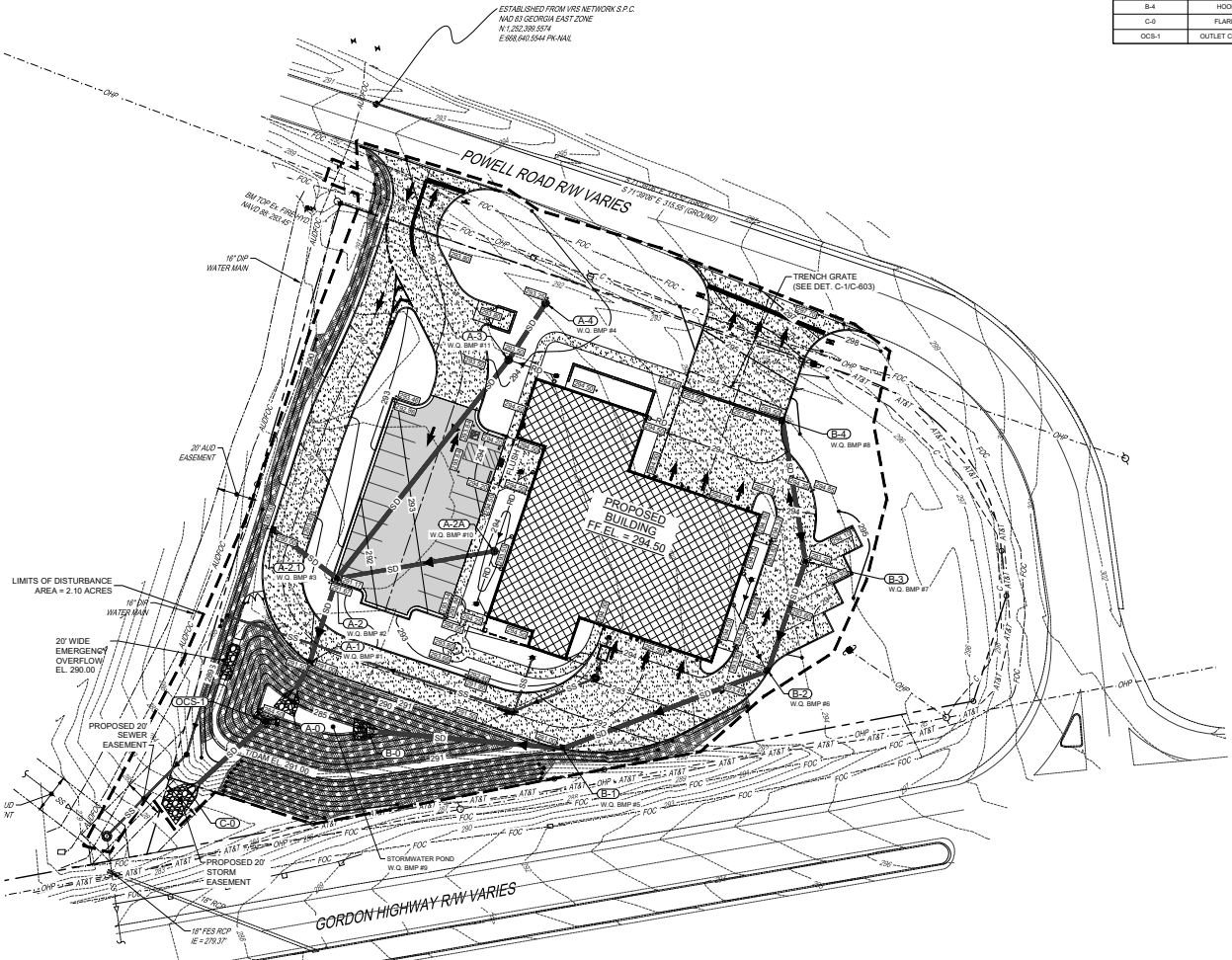
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PROJECT NO. 3042.1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17
SHEET TITLE: LAYOUT & STAKING PLAN
SCALE: 1" = 30'
DRAWING NO. **C-101** REV. 4

FIRE STATION #3

PROJECT LOCATION: 2849 GORDON HWY., AUGUSTA, GA 30909

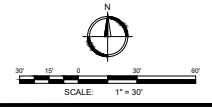
STRUCTURE NO.	TYPE	RIM/GRATE ELEV.	INV(IN) ELEV.	INV (OUT) ELEV.	REMARKS
A-0	FLARED END SECTION	286.79	286.00(N)		PER GDOT DET. 1120 "PRECAST"
A-1	HOODED BACK TRAP	291.00	286.40(N)	286.30	PER GDOT DET. 1019A "PRECAST" "E"
A-2	GRATE INLET (TRAFFIC)	291.17	286.87(N) 286.50(W) 287.31(E)	286.70	PER DET. A1-C-603
A-2-1	HOODED BACK TRAP	286.16		287.00	PER GDOT DET. 1019A "PRECAST" "E"
A-2A	GRATE INLET (YARD)	293.52		293.00	PER DET. A1-C-603
A-3	GRATE INLET (YARD)	293.50	289.13(N)	289.13	PER DET. A1-C-603
A-4	GRATE INLET (YARD)	293.33		289.66	PER DET. A1-C-603
B-0	FLARED END SECTION	286.79	286.00(E)		PER GDOT DET. 1120 "PRECAST"
B-1	HOODED BACK TRAP	291.00	287.44(E)	287.24	PER GDOT DET. 1019A "PRECAST" "E"
B-2	HOODED BACK TRAP	293.35	288.73(N)	288.53	PER GDOT DET. 1019A "PRECAST" "E"
B-3	GRATE INLET (TRAFFIC)	293.30	289.56(N)	289.36	PER DET. A1-C-603
B-4	HOODED BACK TRAP	293.68		290.21	PER GDOT DET. 1019A "PRECAST" "E"
C-0	FLARED END SECTION	284.79	283.00(N)		PER GDOT DET. 1120 "PRECAST"
OCS-1	OUTLET CONTROL STRUCTURE	290.25		284.50	PER DET. A1-C-607



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1 GRADING AND DRAINAGE PLAN
SCALE: 1"=30'



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PROJECT NO. 3042.1604
PROJECT LOCATION: 2884 GORDON HWY., AUGUSTA, GA 30909
PROJECT NAME: AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3

Professional Engineer Seal for Georgia, License No. 12024, State of Georgia, Mechanical Engineering, John Laschner, P.E., Exp. 12/31/2020.

REV.	DATE	BY	DESCRIPTION
4	07/28/22	WTB	RESUBMITAL #2 TO ARS
3	06/29/20	WTB	RESUBMITAL #1 TO ARS
2	02/20/20	WTB	RESUBMITAL #1 TO ARS
1	02/20/20	WTB	RESUBMITAL #1 TO ARS
0	12/21/18	WTB	ISSUED FOR BID

PROJECT NO. 3042.1604
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17

SHHEET TITLE:
GRADING AND DRAINAGE PLAN
SCALE: 1"=30'
DRAWING NO. **C-201**
REV. **4**

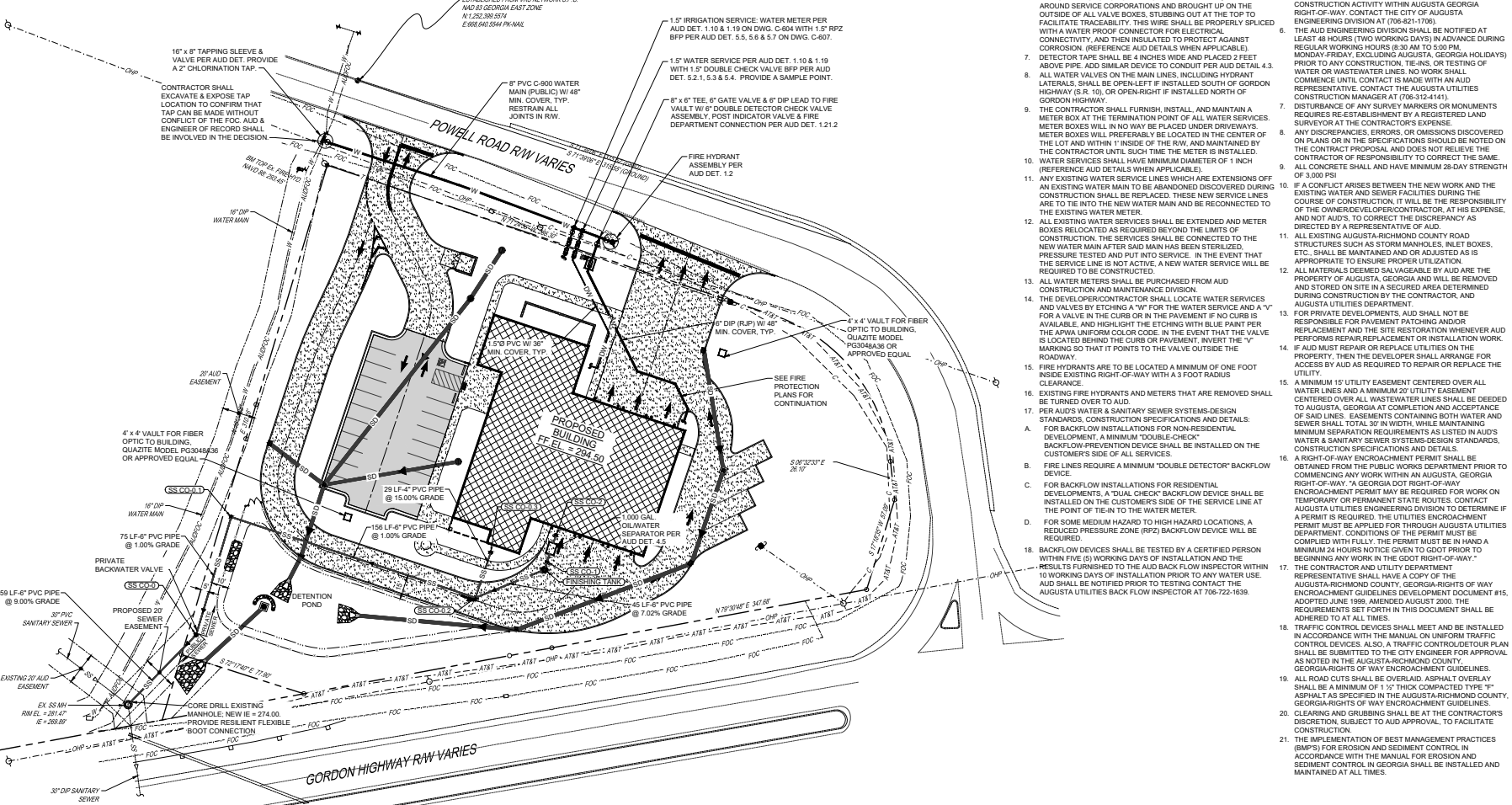
- NOTES**
- ALL VALVES, INCLUDING HYDRANTS ON THIS PROJECT SHALL BE "OPEN RIGHT".
 - NO TIE-IN TO EXISTING WATER MAIN IS ALLOWED UNTIL ALL TESTING HAS OCCURRED AND THE AUD INSPECTOR APPROVES THE CONNECTION.
 - MINIMUM TAP SPACING BETWEEN IRRIGATION TAP AND DOMESTIC WATER TAP SHALL MEET AID MINIMUM SPACING REQUIREMENTS.

- AUD SEWER NOTES**
- AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A CORE, TAP, TIE-IN OCCURS. MANHOLE INSTALLED, AND ALL REQUIRED TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
 - THE CONTRACTOR IS TO VERIFY THE INVERT ELEVATIONS (I.E.) OF EXISTING PIPES PRIOR TO BEGINNING CONSTRUCTION.
 - SEWER FORCE MAIN SHALL BE PVC DR-18 C-900 OR C-905 (AS APPLICABLE OR DIP CLASS) 360 EPCOXY LINED.
 - ALL NEW SEWER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER REQUIREMENTS.
 - COPPER WIRE (12-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED SEWER LINES TO FACILITATE TRACEABILITY. THE WIRE SHALL RUN ALONG THE TOP OF THE MAIN AND ALONG INDIVIDUAL SERVICE LINES AND BROUGHT UP ON THE OUTSIDE OF ALL MANHOLES, CLEANOUTS, OR OTHER ABOVE GROUND FEATURES STUBBING OUT AT THE TOP FOR LOCATING PURPOSES. THIS WIRE SHALL BE PROPERLY SPICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AID DETAILS WHEN APPLICABLE).
 - DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE AND SIMILAR VELOC TO CONDUIT PER AID DETAIL 4.3.

- ALL TIE-INS TO EXISTING MANHOLES SHALL BE CORED UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
- ALL MANHOLES REQUIRE "K OR N SEAL" OR EQUAL, RUBBER BOOTS, UNLESS OTHERWISE APPROVED BY AUD INSPECTOR.
- NO CONNECTION SHALL BE MADE TO EXISTING WASTEWATER LINES UNTIL THE PROPOSED LINE IS INSPECTED AND APPROVED BY AUD'S ENGINEERING DIVISION.
- ALL WASTEWATER MANHOLES SHALL HAVE AN ELEVATION DROP OF 0.2 FOOT ACROSS THE INLET AND OUTLET INVERTS.
- WASTEWATER CLEAN-OUTS SHALL BE INSTALLED AT ALL INDIVIDUAL SERVICES AS SHOWN IN AID-DETAILS, AND SHALL NOT BE INSTALLED UNDER DRIVEWAYS OR ANY PAVED AREAS WITHOUT PRIOR APPROVAL FROM AID.
- SERVICE LINES TO SANITARY SEWER MAIN SHALL BE BEDDED PER THESE AID SPECIFICATIONS AND AID DETAILS.
- MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100 GPD/INCH DIAMETER PER MILE.
- THE CONTRACTOR SHALL LOCATE SANITARY SEWER SERVICES BY ETCHING AN "S" IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH GREEN PAINT TO SHOW THE APWA UNIFORM CODE.
- FINISHED FLOOR ELEVATIONS OF ALL PROPOSED BUILDINGS SHALL BE A MINIMUM OF FIVE (5) FEET ABOVE THE INVERT ELEVATION OF THE WASTEWATER MAIN OR MANHOLE AT THE POINT OF TIE-IN. IN INSTANCES WHERE THIS IS NOT POSSIBLE, A BACKWATER VALVE SHALL BE INSTALLED IN THE SEWER SERVICE.

- AUD WATER NOTES**
- AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A TAP, TIE-IN OCCURS. RESTRAINED JOINTS ARE INSTALLED, FITTINGS, FIRE HYDRANTS, VALVES AND PRESSURE TESTING. CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS).
 - ALL PVC WATER LINES SHALL BE A MINIMUM DR-18 PVC MEETING APWA C-900 AND/OR C-905, UNLESS OTHERWISE SHOWN OR SPECIFIED.
 - ALL DIP WATER LINES SHALL BE CLASS 350 FOR LINES 16" DIAMETER AND SMALLER, AND CLASS 300 FOR LINES 18" DIAMETER THROUGH 24" DIAMETER, UNLESS OTHERWISE SPECIFIED OR SHOWN.
 - ALL NEW WATER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER RECOMMENDATIONS.
 - ALL WATER LINES SHALL BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA PER AID'S WATER & SANITARY SEWER SYSTEMS DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
 - COPPER WIRE (12-GAUGE, INSULATED, SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED WATER LINES, WRAPPED AROUND SERVICE CORPORATIONS AND BROUGHT UP ON THE OUTSIDE OF ALL VALVE BOXES, STUBBING OUT AT THE TOP TO FACILITATE TRACEABILITY. THIS WIRE SHALL BE PROPERLY SPICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY, AND THEN INSULATED TO PROTECT AGAINST CORROSION. (REFERENCE AID DETAILS WHEN APPLICABLE).
 - DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE. ADD SIMILAR VELOC TO CONDUIT PER AID DETAIL 4.3.
 - ALL WATER VALVES ON THE MAIN LINES, INCLUDING FIRE HYDRANT LATERALS, SHALL BE OPEN-LEFT IF INSTALLED SOUTH OF GORDON HIGHWAY (S.R. 10), OR OPEN-RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY.
 - THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN A METER BOX AT THE TERMINATION POINT OF ALL WATER SERVICES. METER BOXES WILL IN NO WAY BE PLACED UNDER DRIVEWAYS. METER BOXES WILL PREFERABLY BE LOCATED IN THE CENTER OF THE LOT AND WITHIN 1" INSIDE OF THE ROW, AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THE METER IS INSTALLED.
 - WATER SERVICES SHALL HAVE MINIMUM DIAMETER OF 1 INCH (REFERENCE AID DETAILS WHEN APPLICABLE).
 - ANY EXISTING WATER SERVICE LINES WHICH ARE EXTENSIONS OF AN EXISTING WATER MAIN TO BE ABANDONED DISCOVERED DURING CONSTRUCTION SHALL BE REPLACED. THESE NEW SERVICE LINES ARE TO BE INTO THE NEW WATER MAIN AND BE RECONNECTED TO THE EXISTING WATER METER.
 - ALL EXISTING WATER SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEHIND THE LIMITS OF CONSTRUCTION. THE SERVICES SHALL BE CONNECTED TO THE NEW WATER MAIN AFTER SAID MAIN HAS BEEN STERILIZED, PRESSURE TESTED AND PUT INTO SERVICE. IN THE EVENT THAT THE SERVICE LINE IS NOT ACTIVE, A NEW WATER SERVICE WILL BE REQUIRED TO BE CONSTRUCTED.
 - ALL WATER METERS SHALL BE PURCHASED FROM AID CONSTRUCTION AND MAINTENANCE DIVISION.
 - THE DEVELOPER/CONTRACTOR SHALL LOCATE WATER SERVICES AND VALVES BY ETCHING A "W" FOR THE WATER SERVICE AND A "V" FOR A VALVE IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE, AND HIGHLIGHT THE ETCHING WITH BLUE PAINT PER THE APWA UNIFORM COLOR CODE. IN THE EVENT THAT THE VALVE IS LOCATED BEHIND THE CURB OR PAVEMENT, INVERT THE "V" MARKING SO THAT IT POINTS TO THE VALVE OUTSIDE THE ROADWAY.
 - FIRE HYDRANTS ARE TO BE LOCATED A MINIMUM OF ONE FOOT INSIDE EXISTING RIGHT-OF-WAY WITH A 3 FOOT RADIIUS CLEARANCE.
 - EXISTING FIRE HYDRANTS AND METERS THAT ARE REMOVED SHALL BE TURNED OVER TO AID.
 - PER AID'S WATER & SANITARY SEWER SYSTEMS DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS:
 - FOR BACKFLOW INSTALLATIONS FOR NON-RESIDENTIAL DEVELOPMENT, A MINIMUM "DOUBLE CHECK" BACKFLOW/PREVENTION DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF ALL SERVICES.
 - FIRE LINES REQUIRE A MINIMUM "DOUBLE DETECTOR" BACKFLOW DEVICE.
 - FOR BACKFLOW INSTALLATIONS FOR RESIDENTIAL DEVELOPMENT, A "DUAL CHECK" BACKFLOW DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF THE SERVICE LINE AT THE POINT OF TIE-IN TO THE WATER METER.
 - FOR SOME MEDIUM HAZARD TO HIGH HAZARD LOCATIONS, A REDUCED PRESSURE ZONE (RPZ) BACKFLOW DEVICE WILL BE REQUIRED.
 - BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN FIVE (5) WORKING DAYS OF INSTALLATION AND THE RESULTS FURNISHED TO THE AID BACKFLOW INSPECTOR WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER USE. AID SHALL BE NOTIFIED PRIOR TO TESTING CONTACT AUGUSTA UTILITIES BACKFLOW INSPECTOR AT 706-722-1639.

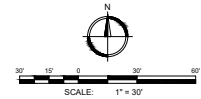
- GENERAL AID NOTES**
- ALL CONSTRUCTION OF WATER DISTRIBUTION SYSTEMS AND WASTEWATER COLLECTION SYSTEM LINES SHALL BE IN ACCORDANCE WITH THE DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS (LATEST PUBLICATION).
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER FACILITY PROPOSED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER FACILITY PROPOSED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER FACILITY PROPOSED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER FACILITY PROPOSED FOR CONSTRUCTION.
 - THE CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY COMPANIES.
 - THE CITY OF AUGUSTA ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY WITHIN AUGUSTA, GEORGIA RIGHT-OF-WAY. CONTACT THE CITY OF AUGUSTA ENGINEERING DIVISION AT 706-821-1705.
 - THE AID ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM, MONDAY-FRIDAY, EXCLUDING AUGUSTA, GEORGIA HOLIDAYS) PRIOR TO ANY CONSTRUCTION, TIE-INS, OR TESTING OF WATER OR WASTEWATER LINES. NO WORK SHALL COMMENCE UNTIL CONTACT IS MADE WITH AN AID REPRESENTATIVE TO CONTACT THE AUGUSTA UTILITIES CONSTRUCTION MANAGER AT (706-312-4141).
 - DISTURBANCE OF ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
 - ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON PLANS OR IN THE FIELD BY THE CONTRACTOR SHALL BE NOTED ON THE CONTRACT PROPOSAL AND DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO CORRECT THE SAME. ALL CONCRETE SHALL HAVE MINIMUM 28-DAY STRENGTH OF 3,000 PSI.
 - IF A CONFLICT ARISES BETWEEN THE NEW WORK AND THE EXISTING WATER AND SEWER FACILITIES DURING THE COURSE OF CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR, AT HIS EXPENSE, AND NOT AID'S, TO CORRECT THE DISCREPANCY AS DIRECTED BY A REPRESENTATIVE OF AID.
 - ALL EXISTING AUGUSTA-RICHMOND COUNTY ROAD STRUCTURES SUCH AS STORM MANHOLES, INLET BOXES, ETC., SHALL BE MAINTAINED AND OR ADJUSTED AS IS APPROPRIATE TO ENSURE PROPER UTILIZATION.
 - ALL MATERIALS DEEMED SALVAGEABLE BY AID ARE THE PROPERTY OF AUGUSTA, GEORGIA AND WILL BE REMOVED AND STORED ON SITE IN A SECURED AREA DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR, AND AUGUSTA UTILITIES DEPARTMENT.
 - FOR PRIVATE DEVELOPMENTS, AID SHALL NOT BE RESPONSIBLE FOR PAVEMENT PATCHING AND/OR REPAIRS. THE SITE RESTORATION WHENEVER AID PERFORMS REPAIR, REPLACEMENT OR INSTALLATION WORK.
 - AID MUST REPAIR OR REPLACE UTILITIES ON THE PROPERTY, THEN THE DEVELOPER SHALL ARRANGE FOR ACCESS BY AID AS REQUIRED TO REPAIR OR REPLACE THE UTILITY.
 - A MINIMUM 15' UTILITY EASEMENT CENTERED OVER ALL WATER LINES AND A MINIMUM 20' UTILITY EASEMENT CENTERED OVER ALL WASTEWATER LINES SHALL BE BEHELD TO AUGUSTA, GEORGIA AT COMPLETION AND ACCEPTANCE OF SAID LINES. EASEMENTS CONTAINING BOTH WATER AND SEWER SHALL TOTAL 30' IN WIDTH, WHILE MAINTAINING MINIMUM SEPARATION REQUIREMENTS AS LISTED IN AID'S WATER & SANITARY SEWER SYSTEMS DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.
 - A RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING ANY WORK WITHIN AUGUSTA, GEORGIA RIGHT-OF-WAY. A GEORGIA DOT RIGHT-OF-WAY ENCROACHMENT PERMIT MAY BE REQUIRED FOR WORK ON TEMPORARY OR PERMANENT STATE ROUTES. CONTACT AUGUSTA UTILITIES ENGINEERING DIVISION TO DETERMINE IF A PERMIT IS REQUIRED. THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUGUSTA UTILITIES DEPARTMENT. CONDITIONS OF THE PERMIT MUST BE COMPLIED WITH FULLY. THE PERMIT MUST BE IN HAND A MINIMUM 24 HOURS NOTICE GIVEN TO GDOT PRIOR TO BEGINNING ANY WORK IN THE GDOT RIGHT-OF-WAY.
 - THE CONTRACTOR AND UTILITY DEPARTMENT REPRESENTATIVE SHALL HAVE A COPY OF THE AUGUSTA-RICHMOND COUNTY, GEORGIA RIGHTS OF WAY ENCROACHMENT GUIDELINES DEVELOPMENT DOCUMENT #15, ADOPTED JUNE 1999, AMENDED AUGUST 2000. THE REQUIREMENTS SET FORTH IN THIS DOCUMENT SHALL BE ADHERED TO AT ALL TIMES.
 - TRAFFIC CONTROL DEVICES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALSO, A TRAFFIC CONTROL/DETOUR PLAN SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL, AS NOTED IN THE AUGUSTA-RICHMOND COUNTY, GEORGIA RIGHTS OF WAY ENCROACHMENT GUIDELINES.
 - ALL ROAD CUTS SHALL BE OVERLAP COMPACT TYPE SHALL BE A MINIMUM OF 1 1/2" THICK ASPHALT OVER 7" ASPHALT AS SPECIFIED IN THE AUGUSTA-RICHMOND COUNTY, GEORGIA RIGHTS OF WAY ENCROACHMENT GUIDELINES.
 - CLEARING AND GRUBBING SHALL BE AT THE CONTRACTOR'S DISCRETION, SUBJECT TO AID APPROVAL, TO FACILITATE CONSTRUCTION.
 - THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES.



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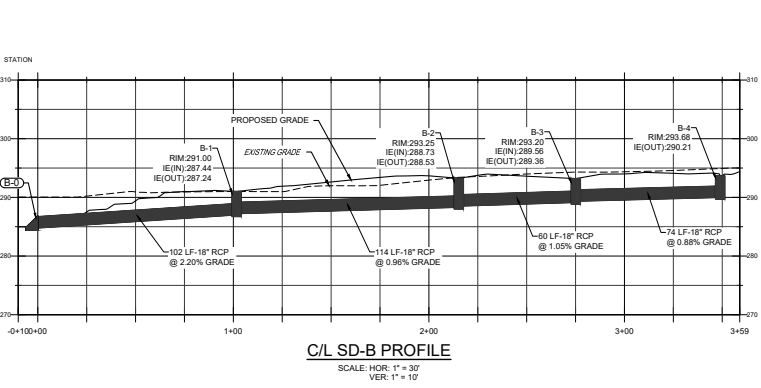
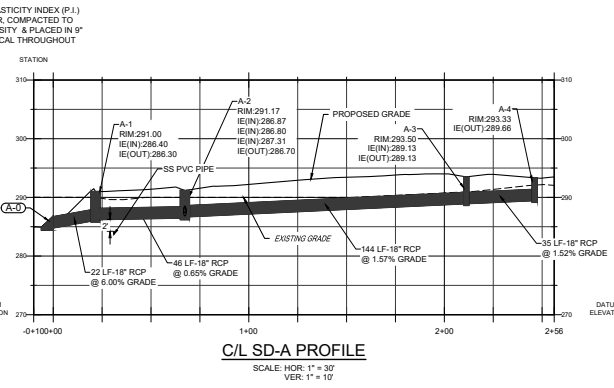
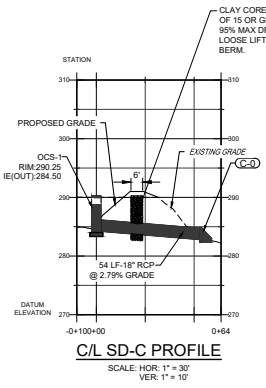
A1
C-301
UTILITY PLAN
SCALE: 1"=30'



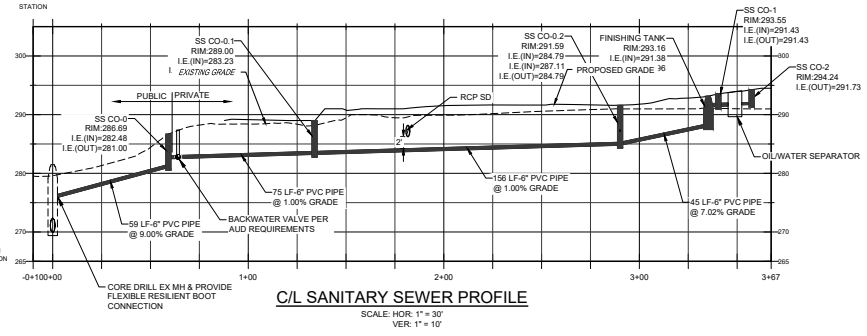
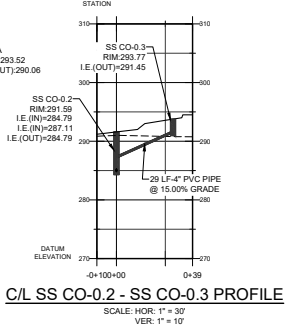
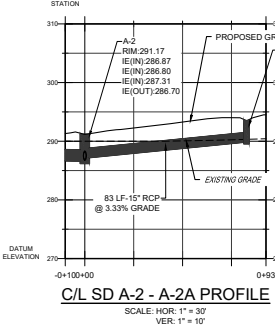
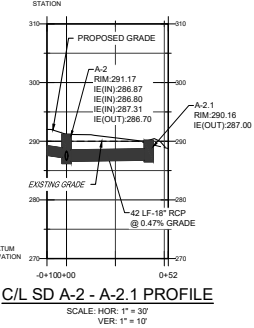
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AUGUSTA, GA 30601
535 TELFAIR STREET, AUGUSTA, GA 30601
FIRE STATION #3
PROJECT LOCATION: 2849 GORDON HWY., AUGUSTA, GA 30609
PROJECT NAME: [REDACTED]
PROJECT NO.: 3042-1604
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17
SHEET TITLE: **UTILITY PLAN**

NO.	DATE	BY	DESCRIPTION
1	01/22/22	WTB	RESUBMITTAL TO CLARIC
2	01/26/22	WTB	RESUBMITTAL TO CLARIC
3	01/26/22	WTB	RESUBMITTAL TO CLARIC
4	01/26/22	WTB	RESUBMITTAL TO CLARIC
5	01/26/22	WTB	RESUBMITTAL TO CLARIC
6	01/26/22	WTB	RESUBMITTAL TO CLARIC
7	01/26/22	WTB	RESUBMITTAL TO CLARIC
8	01/26/22	WTB	RESUBMITTAL TO CLARIC
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26	01/26/22	WTB	RESUBMITTAL TO CLARIC
27	01/26/22	WTB	RESUBMITTAL TO CLARIC
28	01/26/22	WTB	RESUBMITTAL TO CLARIC
29	01/26/22	WTB	RESUBMITTAL TO CLARIC
30	01/26/22	WTB	RESUBMITTAL TO CLARIC



STORM SEWER STRUCTURES					
STRUCTURE NO.	TYPE	RIM/GRATE ELEV.	INV(IN) ELEV.	INV(OUT) ELEV.	REMARKS
A-0	FLARED END SECTION	286.79	285.00(N)		PER GDOT DET. 1100 "PRECAST"
A-1	HOODED BACK TRAP	291.00	286.40(N)	286.30	PER GDOT DET. 1019A "PRECAST" "E"
A-2	GRATE INLET (TRAFFIC)	291.17	286.87(N) 286.80(N/W) 287.31(E)	286.70	PER DET. A1C-603
A-2.1	HOODED BACK TRAP	290.16	287.00	287.00	PER GDOT DET. 1019A "PRECAST" "E"
A-2A	GRATE INLET (YARD)	293.52	290.00	290.00	PER DET. A3C-603
A-3	GRATE INLET (YARD)	293.50	289.13(N)	289.13	PER DET. A3C-603
A-4	GRATE INLET (YARD)	293.33	289.66	289.66	PER DET. A3C-603
B-0	FLARED END SECTION	286.79	285.00(E)		PER GDOT DET. 1100 "PRECAST"
B-1	HOODED BACK TRAP	291.00	287.44(E)	287.24	PER GDOT DET. 1019A "PRECAST" "E"
B-2	HOODED BACK TRAP	293.25	288.73(N)	288.53	PER GDOT DET. 1019A "PRECAST" "E"
B-3	GRATE INLET (TRAFFIC)	293.20	289.56(N)	289.36	PER DET. A1C-603
B-4	HOODED BACK TRAP	293.68	290.21	290.21	PER GDOT DET. 1019A "PRECAST" "E"
C-0	FLARED END SECTION	284.79	283.00(N)		PER GDOT DET. 1100 "PRECAST"
OCS-1	OUTLET CONTROL STRUCTURE	290.25	284.50	284.50	PER DET. A1C-607



STORM PIPES SCHEDULE						
PIPE NAME	PIPE DIAMETER (IN.)	PIPE MATERIAL	PIPE LENGTH (FT.)	PIPE SLOPE (%)	INV. (UP)	INV. (DOWN)
A-2 - A-3	18	RCP	144	1.57%	289.13	286.87
A-2 - A-2A	15	RCP	83	3.33%	290.06	287.31
A-2 - A-2.1	18	RCP	42	0.47%	287.00	286.80
B-3 - B-4	18	RCP	74	0.88%	290.21	289.56
B-2 - B-3	18	RCP	60	1.05%	289.36	288.73
B-1 - B-2	18	RCP	114	0.96%	288.53	287.44
B-0 - B-1	18	RCP	102	2.20%	287.24	285.00
C-0 - OCS-1	18	RCP	54	2.79%	284.50	283.00
A-3 - A-4	18	RCP	35	1.52%	289.66	288.13
A-1 - A-2	18	RCP	46	0.65%	286.70	286.40
A-0 - A-1	18	RCP	22	6.00%	286.30	285.00

1 MISCELLANEOUS PROFILES
C-401 SCALE: 1"=30'

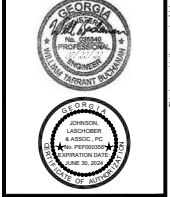


AUGUSTA, GA
535 TELEFAIR STREET, AUGUSTA, GA 30901
PROJECT NAME

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AUGUSTA, GA
2885 GORDON HWY., AUGUSTA, GA 30909
PROJECT LOCATION

FIRE STATION #3



REV	DATE	DESCRIPTION
4	07/20/22	WTB RE-SUBMITAL #2 TO AISC
3	06/29/20	WTB RE-SUBMITAL #1 TO AISC
2	06/29/20	WTB RE-SUBMITAL #1 TO AISC
1	02/22/18	WTB SUBMITAL FOR SITE/LAND DISTURBANCE PERMIT
0	12/27/18	WTB ISSUED FOR BID

PROJECT NO: 3042.1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17

MISCELLANEOUS PROFILES

SCALE: 1" = 30'
DRAWING NO. C-401
REV. 4

SOIL SEDIMENTATION AND POLLUTION CONTROL NOTES

CLEARING PHASE - INITIAL PERIMETER CONTROL

- 1. PRIOR TO THE LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
2. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 50 FT OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
3. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES, POST ON DAY ONE.
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON THE PLANS.
6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PHASE 1 E.S.P.C. PLAN.
7. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
8. AFTER INSTALLATION OF INITIAL EROSION CONTROL, MEASURES THE SITE CONTROLLER AND AN INSPECTOR BY THE PROJECT DESIGN PROFESSIONAL WITHIN 7 DAYS. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE INSPECTOR HAS APPROVED THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN OCCURRENCES OCCUR IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH DESIGN PROFESSIONAL.
9. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES, AS CLEARING PERMITS. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONS AND DIVERSION DIKES TO CONTROL EROSION AND STORMWATER RUNOFF.
10. THE CONTRACTOR SHALL IMPLEMENT NPDES REQUIREMENTS PART IV OF GAR 10001 THRU THE DURATION OF PROJECT.
11. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE (LVS MAY REQUIRE LESS).
12. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA REMAINS UNDISTURBED FOR LESS THAN 6 MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR MORE THAN 6 MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED.
13. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
14. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED E.S.P.C. PLANS, I.E., MANDATORY STOP WORK ORDER.
15. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
16. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION OF THE OWNER AND/OR THE ENGINEER OF RECORD.
17. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLANS AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONS ARE CONSTRUCTED AS SHOWN ON THE PHASE 1 - E.S.P.C. PLAN.
18. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/3 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
19. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" OF STONE AS CONDITIONS DEMAND. MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

- 4. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
5. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/3 HEIGHT OF BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.
6. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
7. TYPE "CC" SENSITIVE SILT FENCE SHOULD BE INSTALLED AT THE TOP OF ALL FILL SLOPES 10 FT OR GREATER IN HEIGHT UNLESS NOTED OTHERWISE ON PLAN. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOP OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN ON THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED, AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED AND GRADE SHALL BE REESTABLISHED PER PROPOSED.
9. ALL SLOPES STEEPER THAN 3:1 AND WITH A HEIGHT OF 10 FT. OR GREATER, AND CUTS AND FILLS WITH STEAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
10. TYPE "N" NON-SENSITIVE SILT FENCE SHALL BE PLACED AT THE TOP OF ALL DIRT STOCK PILE AREAS.
11. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
12. MULCH OR TEMPORARY VEGETATION SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
13. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
14. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES THE 1/3 DEPTH OF BASIN.
15. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/3 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
16. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE ONTO A PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
17. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
18. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED E.S.P.C. PLANS.

FINAL PHASE - FINAL STABILIZATION

- 1. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES UNTIL FINAL PHASE.
2. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
3. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT TRAPS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
4. AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON A SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.
5. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
6. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/3 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
7. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
8. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED E.S.P.C. PLANS.

GRADING PHASE - INTERMEDIATE EROSION & SEDIMENT CONTROL

- 1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
2. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
3. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

- 9. ALL DISTURBED AREAS WILL BE GRASSED AND STABILIZED IMMEDIATELY AFTER GRADING ACCORDING TO THE GRASSING, FERTILIZATION AND MULCH SPECIFICATION. STABILIZATION MEASURES SHALL BE INITIATED ON DISTURBED AREAS WITHIN 14 DAYS OF CESSATION OF CONSTRUCTION ACTIVITY IN THAT AREA, OR WHEN CONSTANT CONSTRUCTION ACTIVITY WILL NOT RESUME WITHIN TWENTY-ONE (21) DAYS OR WITHIN FOURTEEN (14) DAYS OF COMPLETION OF CONSTRUCTION ACTIVITY.
10. FINAL GRADING WILL CONSIST OF SPREADING TOPSOIL (4" MIN TO FINISHED GRADES INDICATED) ON ALL DISTURBED AREAS NOT PAVED.
11. ALL SLOPES STEEPER THAN 4:1 WILL BE HYDROSEEDDED UNLESS OTHERWISE SOODED.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

Table with 5 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Rows include CHECKDAM, CONSTRUCTION EXIT, ROAD CONSTRUCTION STABILIZATION, DIVERSION, TEMPORARY DOWNRAIN STRUCTURE, FILTER RING, LEVEL SPREADER, SEDIMENT BARRIER, SEDIMENT TRAP INLET, TEMPORARY SEDIMENT BASIN, TEMPORARY SEDIMENT TRAP, STORM DRAIN PROTECTION, SURFACE ROUGHENING, TOPSOILING, TREE PROTECTION.

Table with 5 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Rows include VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL, CONCRETE WASTE MANAGEMENT.

Table with 5 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Rows include BUFFER ZONE, DISTURBED AREA STABILIZATION (WITH MULCHING ONLY), DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION), DISTURBED AREA STABILIZATION (WITH SOODING), DUST CONTROL ON DISTURBED AREAS, SLOPE STABILIZATION.

STANDARDS & SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "GREEN BOOK" ALSO KNOWN AS THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," LATEST EDITION.

Logo for RGSWCC (Registered Geoscientists and Surveyors of Georgia) and William T. Buchanan, Level II Certified Design Professional.

Logo for Johnson, Laschrober & Associates, P.C., Architects + Engineers + Landscape Architects.

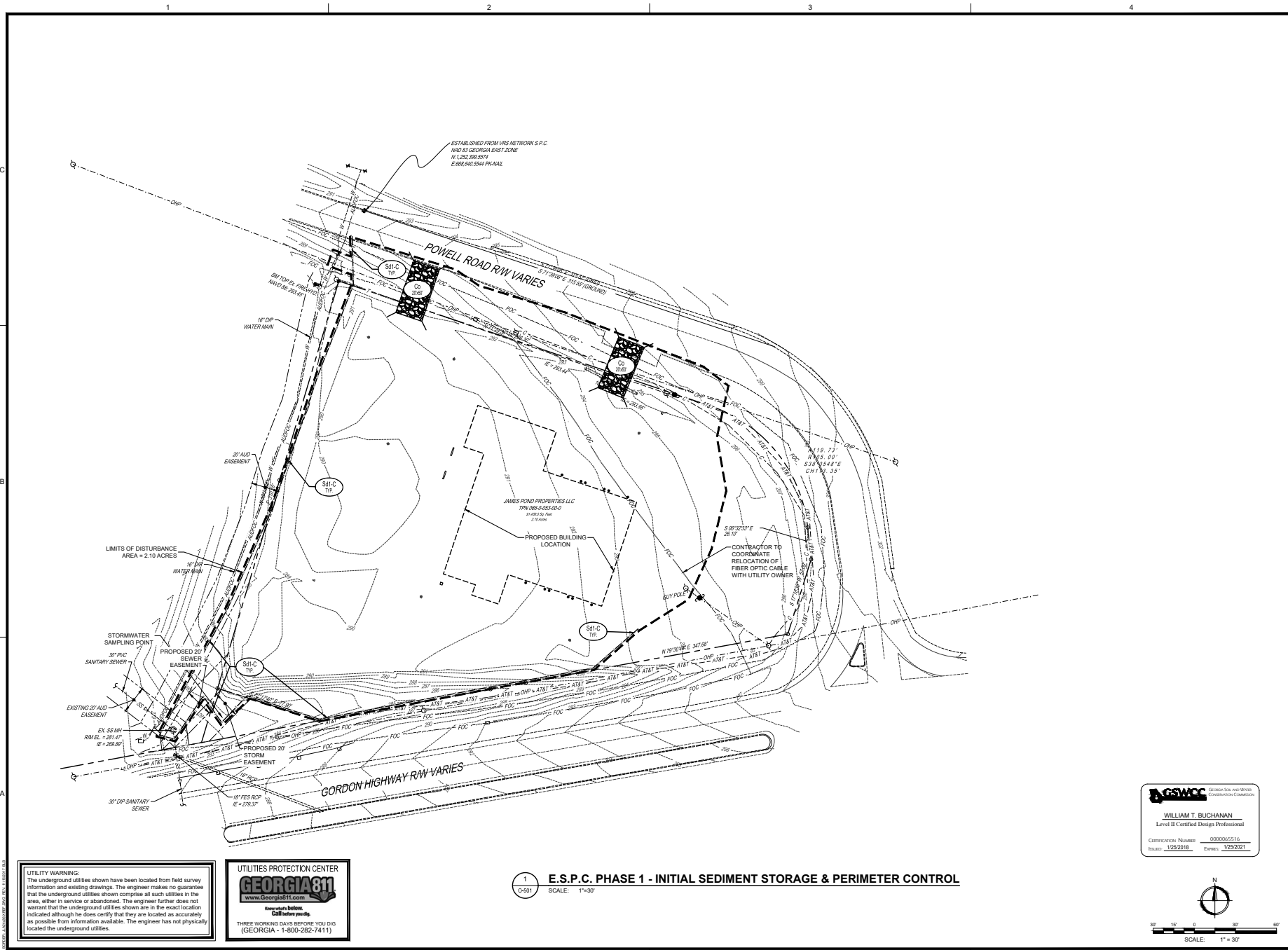
PROJECT LOCATION: 2984 GORDON HWY., AUGUSTA, GA 30609. PROJECT NAME: AUGUSTA, GA 30601. 525 TELFAR STREET, AUGUSTA, GA 30601.

Professional Engineer Seal for William T. Buchanan, State of Georgia, License No. 12222.

Revision table with columns: NO., DATE, BY, DESCRIPTION. Includes revisions for SUBMITTAL TO OASDC, SUBMITTAL TO TIDANC, SUBMITTAL TO SDC, and ISSUED FOR BIDDING.

PROJECT NO: 3042-1604. DRAWN BY: DRWN. CHECKED BY: CHK. DATE: 10/18/17. SHEET TITLE: E.S.P.C. GENERAL NOTES & DETAILS.

Scale: 1" = 30'. Drawing No: C-500. Rev: 4.



UTILITY WARNING:
 The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

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1
C-501 **E.S.P.C. PHASE 1 - INITIAL SEDIMENT STORAGE & PERIMETER CONTROL**
 SCALE: 1"=30'

GSWCC GEORGIA SURVEYING & MAPPING BOARD
WILLIAM T. BUCHANAN
 Level II Certified Design Professional
 Certification Number: 000005516
 Issued: 1/25/2018 Expiry: 1/25/2021

North Arrow
 SCALE: 1" = 30'

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PROJECT NO: 3042.1604
 PROJECT NAME: AUGUSTA, GA
 535 TELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3
 PROJECT LOCATION: 2849 GORDON HWY., AUGUSTA, GA 30909

Professional Engineer Seal
 WILLIAM T. BUCHANAN
 License No. 12522
 State of Georgia
 Professional Engineer
 Civil Engineering
 Exp. 12/31/2021

REV	DATE	DESCRIPTION
1	10/18/17	ISSUED FOR BID
2	10/18/17	ISSUED FOR BID
3	01/22/18	ISSUED FOR BID
4	07/20/22	RE-SUBMITTAL TO AISC
5	08/29/20	RE-SUBMITTAL TO AISC
6	09/08/20	RE-SUBMITTAL TO AISC
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100	09/08/20	RE-SUBMITTAL TO AISC

PROJECT NO: 3042.1604
 DRAWN BY: DRWN
 CHECKED BY: CHK
 DATE: 10/18/17

SHEET TITLE:
E.S.P.C. PHASE 1 - INITIAL SEDIMENT STORAGE & PERIMETER CONTROL

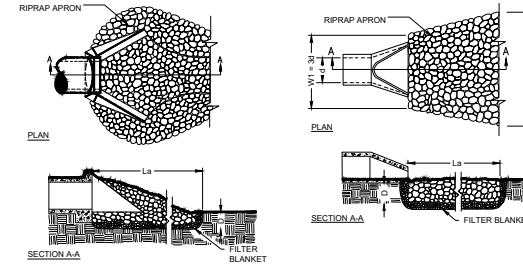
SCALE: 1" = 30'
 DRAWING NO: **C-501**
 REV: **4**

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APRON SIZING PER FIGURES 6-34.1 & 6-34.2							
LOCATION DESCRIPTION	Q(25-YR) ¹ (CFS)	Q(50) (FT)	D (FT)	L _a (FT)	W ₁ (FT)	W ₂ (FT)	NOTES
STRUCTURE A-0	4.9	0.5	0.75	6	4.5	7.5	MINIMUM VALUES USED BECAUSE FLOWS ARE LOW & DON'T REGISTER ON GRAPH
STRUCTURE B-0	4.2	0.5	0.75	6	4.5	7.5	MINIMUM VALUES USED BECAUSE FLOWS ARE LOW & DON'T REGISTER ON GRAPH
STRUCTURE C-0	6.3	0.5	0.75	20	4.5	15	DIMENSIONS UTILIZED ARE > THAN WHAT IS REQUIRED BY FIG.6-34.1.

* NOTE: SEE STORM SEWER CALCULATIONS & HYDRAFLOW HYDROGRAPH CALCULATIONS FOR FLOWS USED. DIMENSIONS FOR RIPRAP APRONS DETERMINED FROM GSWCC "GREEN BOOK" FIG. 6-34.1.

PIPE OUTLET TO WELL DEFINED CHANNEL PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



- NOTES:
1. L_a IS THE LENGTH OF THE RIPRAP APRON PER FIG. 6-34.1 & 2.
 2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
 4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

(S1) RIPRAP OUTLET PROTECTION



AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901
PROJECT NAME
FIRE STATION #3
PROJECT LOCATION
2845 GORDON HWY., AUGUSTA, GA 30909

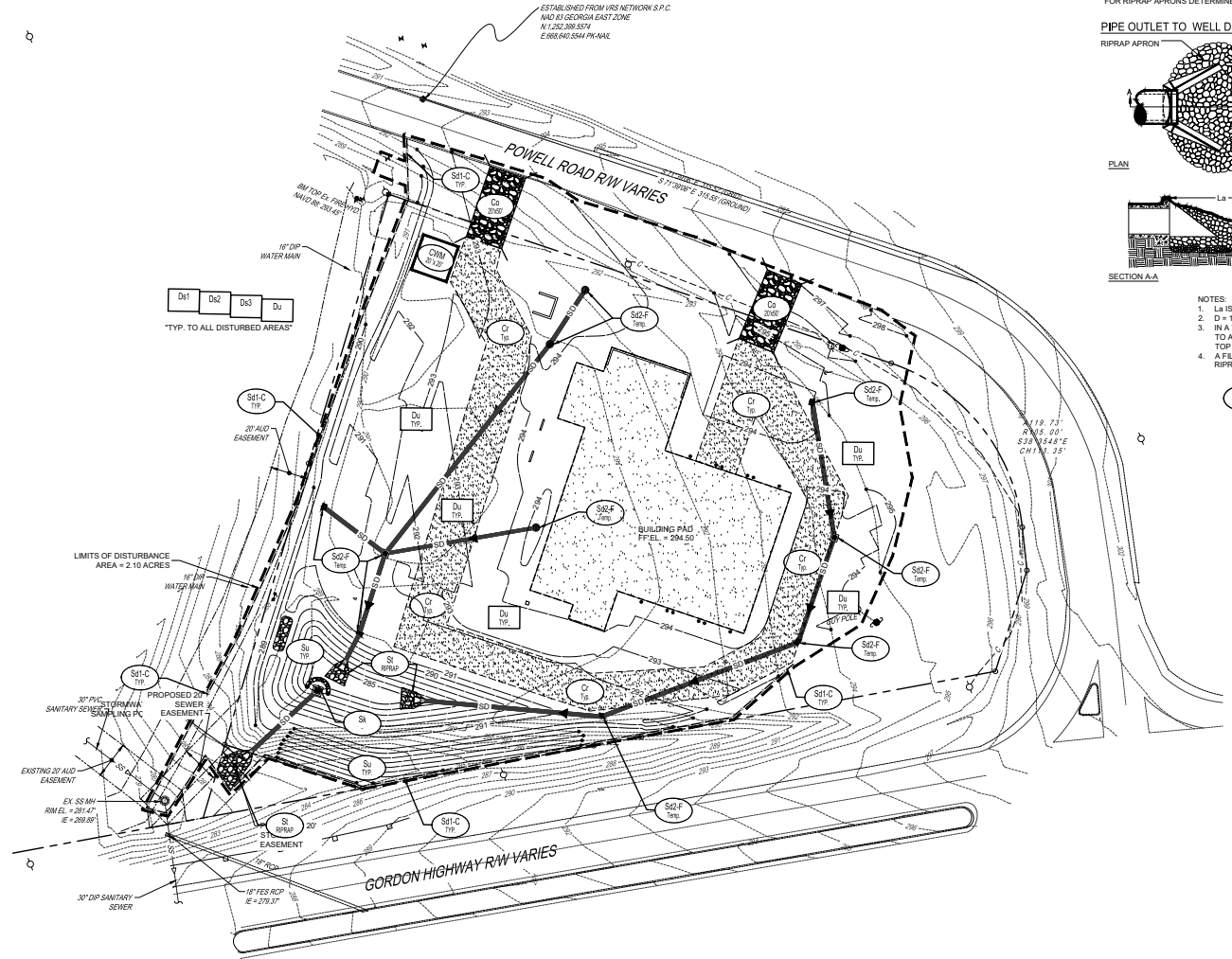


NO.	DATE	DESCRIPTION
1	10/18/17	ISSUED FOR BIDDING
2	02/08/18	ISSUED FOR BIDDING
3	03/29/18	RE SUBMITTAL #1 TO AISC
4	07/28/18	FINAL SUBMITTAL TO AISC

PROJECT NO: 3042.1604
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17

SHEET TITLE:
**E.S.P.C. PHASE 2 -
INTERMEDIATE
GRADING &
DRAINAGE**

SCALE: 1" = 30'
DRAWING NO: **C-502**
REV: 4

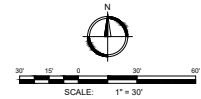


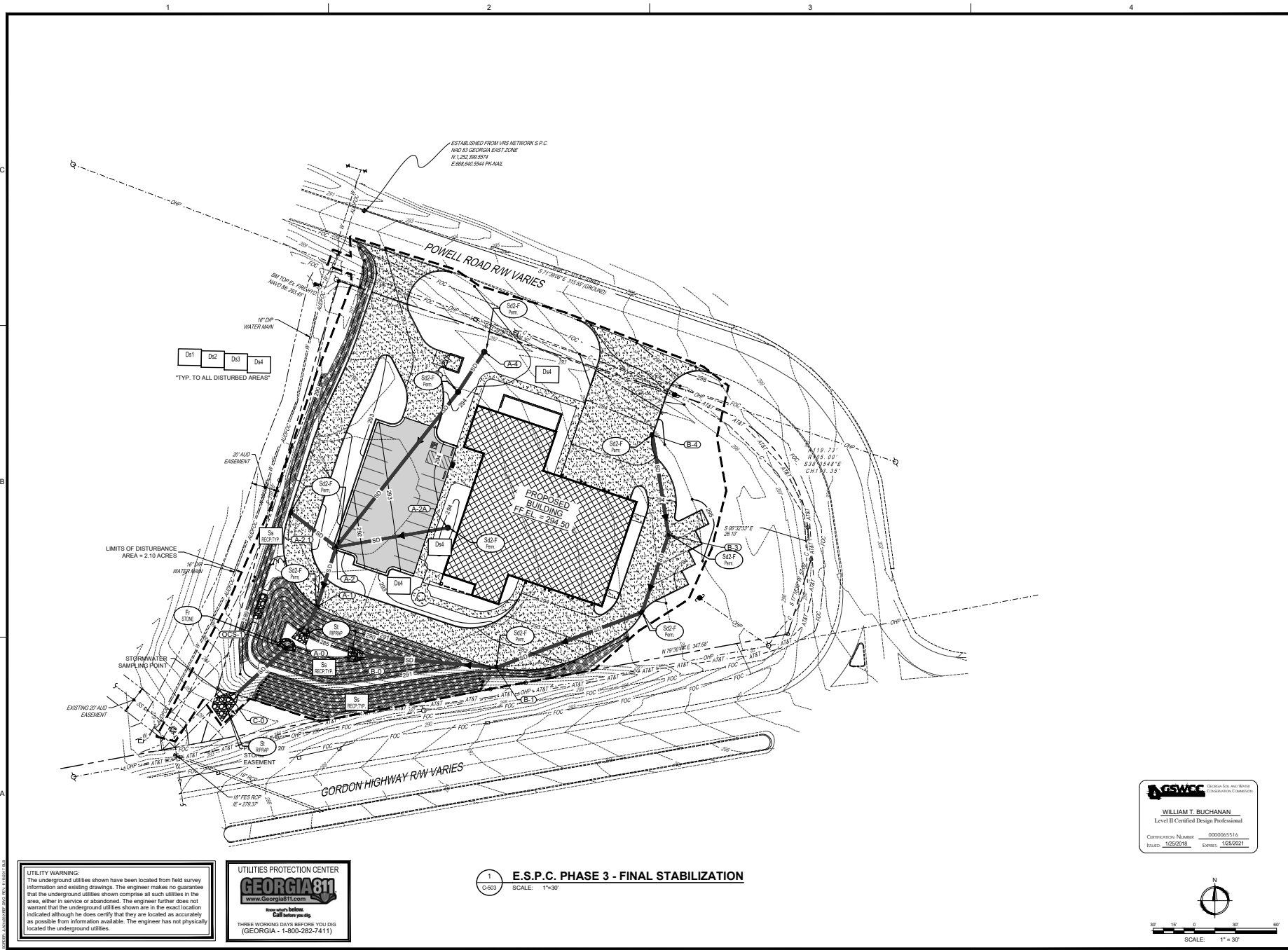
UTILITY WARNING:
The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

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(GEORGIA - 1-800-282-7411)

A1
C-502
E.S.P.C. PHASE 2 - INTERMEDIATE GRADING & DRAINAGE
SCALE: 1" = 30'

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
WILLIAM T. BUCHANAN
Level II Certified Design Professional
Certification Number: 0000265516
Issued: 12/5/2019, Expires: 12/5/2021





UTILITY WARNING:
 The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

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 THREE WORKING DAYS BEFORE YOU DIG
 (GEORGIA - 1-800-282-7411)

E.S.P.C. PHASE 3 - FINAL STABILIZATION
 SCALE: 1" = 30'

GSWCC
 WILLIAM T. BUCHANAN
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 0000065516
 ISSUED: 1/25/2018 Expires: 1/25/2021

SCALE: 1" = 30'
 0 15 30 45 60
 SCALE: 1" = 30'

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PROJECT NO: 3042.1604
 DRAWN BY: CRE
 CHECKED BY: WTB
 DATE: 10/18/17
 SHEET TITLE:
E.S.P.C. PHASE 3 - FINAL STABILIZATION

GEORGIA
 PROFESSIONAL ENGINEERING BOARD
 LICENSE NO. 1252018
GEORGIA
 PROFESSIONAL ARCHITECTURE BOARD
 LICENSE NO. 1252021

REV	DATE	DESCRIPTION
1	10/18/17	ISSUED FOR BID
2	10/18/17	ISSUED FOR BID
3	10/18/17	ISSUED FOR BID
4	10/18/17	ISSUED FOR BID

PROJECT NO: 3042.1604
 DRAWING NO: **C-503**
 SHEET NO: 4

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SITE CONSTRUCTION POLLUTION NOTES

- CONSTRUCTION WASTES INCLUDE DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING SUPPLIES, ETC. CONTRACTOR SHALL SELECT A DESIGNATED WASTE COLLECTION AREA AND PROVIDE IDS FOR WASTE CONTAINERS. CONSTRUCTION WASTES SHALL BE REMOVED ON A CONSISTENT SCHEDULE.
- PESTICIDES SHALL BE STORED IN A DRY, COVERED AREA. CONTRACTOR SHALL PROVIDE CURBS, DIKES, OR BERMS SURROUNDING STORAGE AREAS. APPLICATION RATES SHALL BE FOLLOWED STRICTLY.
- FERTILIZER AND DETERGENT APPLICATIONS ARE TO BE LIMITED TO THE MINIMUM NEEDED. CONTRACTOR SHALL NOT DISCHARGE WASH WATER INTO THE STORM WATER SYSTEM.
- PETROLEUM PRODUCTS INCLUDE OIL, GASOLINE, LUBRICANTS, AND ASPHALTIC SUBSTANCES AND SHALL BE STORED IN COVERED AREAS PROTECTED BY DIKES. CONTRACTOR SHALL HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR MAINTENANCE AND FUELING VEHICLES.
- SANITARY AND SEPTIC WASTES INCLUDE ON-SITE SANITARY FACILITIES. LOCATION OF THESE FACILITIES SHALL BE OUT OF HIGH FLOOD AREAS. REGULAR SERVICING BY A QUALIFIED FIRM OR MAINTENANCE IS REQUIRED. PROPOSED SANITARY SEWER WILL TIE INTO AN EXISTING CITY SYSTEM.
- CONTRACTOR SHALL STORE AND HANDLE MATERIALS TO PREVENT SPILLS. IF A SPILL OCCURS, CONTACT TO STORM WATER SHALL BE MINIMIZED.
- PRIOR TO MOBILIZATION, THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ANY POTENTIAL POLLUTANT TO THE ENGINEER FOR APPROVAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

SITE MAINTENANCE NOTES:

- THE DESIGN PROFESSIONAL WHO PREPARED E.S. & P.C. PLAN SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.
- ANY AMENDMENTS AND/OR REVISIONS TO THE E.S. & P.C. PLANS WHICH WILL HAVE A SIGNIFICANT EFFECT ON BMP'S WITH HYDRAULIC COMPONENTS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLED PERIMETER CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- DEVELOPERS AND/OR CONTRACTORS ARE RESPONSIBLE TO REMOVE OR CLEAN OUT ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND, ONTO PRIVATE PROPERTY, INTO A COUNTY OWNED POND OR COUNTY OWNED PROPERTY TO INCLUDE RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL COMPLY WITH THE "GEORGIA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS" FOR WASTE DISPOSAL, SANITARY SEWER AND/OR SEPTIC TANK INCLUDING ALL TEMPORARY MEASURES DURING CONSTRUCTION AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

FUGITIVE DUST CONTROL NOTES

GA. RULE 901-3-1-.02) - (N) - FUGITIVE DUST CONTROL.

- ALL PERSONS RESPONSIBLE FOR ANY OPERATION, PROCESS, HANDLING, TRANSPORTATION OR STORAGE FACILITY WHICH MAY RESULT IN FUGITIVE DUST SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT SUCH DUST FROM BECOMING AIRBORNE. SOME REASONABLE PRECAUTIONS WHICH COULD BE TAKEN TO PREVENT DUST FROM BECOMING AIRBORNE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - USE, WHERE POSSIBLE, OF WATER OR CHEMICALS FOR CONTROL OF DUST IN THE DEMOLITION OF EXISTING BUILDINGS OR STRUCTURES, CONSTRUCTION OPERATIONS, THE GRADING OF ROADS OR THE CLEARING OF LAND;
 - IF APPLICATION OF ASPHALT, OIL, WATER, OR SUITABLE CHEMICALS ON DIRT ROADS, MATERIALS, STOCKPILES, AND OTHER SURFACES WHICH CAN GIVE RISE TO AIRBORNE DUSTS;
 - INSTALLATION AND USE OF HOODS, FANS, AND FABRIC FILTERS TO ENCLOSE AND VENT THE HANDLING OF DUSTY MATERIALS. ADEQUATE CONTAINMENT METHODS CAN BE EMPLOYED DURING SANDBLASTING OR OTHER SIMILAR OPERATIONS;
 - COVERING, AT ALL TIMES WHEN IN MOTION, OPEN BODIED TRUCKS, TRANSPORTING MATERIALS LIKELY TO GIVE RISE TO AIRBORNE DUSTS;
 - THE PROMPT REMOVAL OF EARTH OR OTHER MATERIAL FROM PAVED STREETS ONTO WHICH EARTH OR OTHER MATERIAL HAS BEEN DEPOSITED.
- THE PERCENT OPACITY FROM ANY FUGITIVE DUST SOURCE LISTED IN PARAGRAPH (2)(N)1. ABOVE SHALL NOT EQUAL OR EXCEED 20 PERCENT.

LAND GRADING FOR MINIMIZING EROSION

- ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE VEGETATION.
- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND ACCORDING TO THE STANDARDS AND SPECIFICATIONS FOR THE APPROPRIATE EROSION CONTROL PRACTICES.
- IF TOPSOIL IS REQUIRED FOR THE ESTABLISHMENT OF VEGETATION, IT SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND PROTECTED FROM EROSION DURING THE INTERIM.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL, AND STRIPPED OF TOPSOIL.
- AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES (76 MM) PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED BY BUILDING STANDARDS TO REDUCE EROSION, SURFACE SETTLEMENT, SUBSURGENCE AND OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- THE OUTER FACE OF THE FILL SLOPE SHOULD BE ALLOWED TO STAY LOOSE, NOT ROLLED, COMPACTED, OR BLADED SMOOTH. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TRENDS (CLUED TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR.
- ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES (203 MM) PER LIFT.
- USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE, TO REDUCE THE LENGTH OF CUT-AND-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION.
- THE FINISHED CUT-AND-FILL SLOPES, WHICH ARE TO BE VEGETATED WITH GRASS AND LEGUMES, SHOULD NOT BE STEEPER THAN 2:1.
- SLOPES IN EXCESS OF 2:1 MAY REQUIRE HYDROSEEDING, HYDROMULCHING, TACTICRYLING, AND/OR "CHINCHING" STRAW, BIOENGINEERING TECHNIQUES, OR RETAINING WALLS.
- ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT.
- SLEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH APPROVED METHODS.
- STABILIZE ALL GRADED AREAS WITH VEGETATION, CRUSHED STONE, RIPRAP OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETED OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE.
- USE MULCH TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
- STOCKPILES, BORROW AREAS AND SPILL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

SPILL RESPONSE PLAN

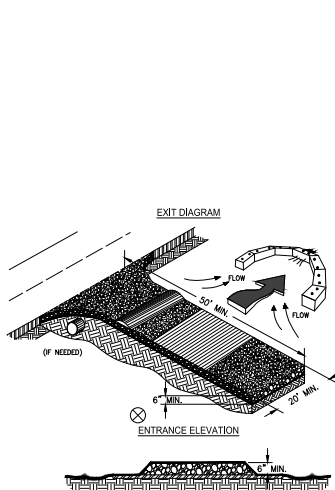
- THE GOAL OF THE SPILL RESPONSE PLAN IS TO REDUCE SAFETY, HEALTH, AND ENVIRONMENTAL RISKS ASSOCIATED WITH A HAZARDOUS SUBSTANCE INCIDENT. IN THE EVENT OF A SPILL, THE FOLLOWING ACTIONS SHOULD BE IMPLEMENTED:
- SECURE AND EVACUATE THE AREA - KEEP UNAUTHORIZED PERSONS OUT OF THE AREA.
 - REPORT THE SPILL -
 - ALL SPILLS >5 GALLONS MUST BE IMMEDIATELY REPORTED TO THE FIRE DEPARTMENT AT 911.
 - SPILLS THAT ARE 5 GALLONS MUST BE REPORTED IF THE SPILL ENTERS A STORM DRAIN, CREEK, LAKE, OR OTHER BODY OF WATER, OR CANNOT BE SAFELY CONTAINED AND CLEANED UP BY ORGANIZATION PERSONNEL.
 - PROVIDE ANY PERTINENT INFORMATION, INCLUDING:
 - SUBSTANCE SPILLED
 - LOCATION OF SPILL
 - NATURE AND EXTENT OF INJURIES
 - EXTENT TO WHICH SPILL TRAVELED
 - ESTIMATED AMOUNT SPILLED
 - TIME SPILL OCCURRED
 - PROTECT YOURSELF - EXTINGUISH SMOKING MATERIAL AND IGNITION SOURCES. IDENTIFY THE SUBSTANCE SPILLED AND OBTAIN APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, SUCH AS:
 - PROTECTIVE GOGGLES
 - PROTECTIVE APRON
 - RUBBER OVERBOOTS
 - COMPATIBLE RUBBER GLOVES
 - RESPIRATORS
 - STOP THE FLOW - STOP OR SLOW FLOW OF HAZARDOUS SUBSTANCE IF IT CAN BE DONE SAFELY.
 - PLUG OR PATCH PUNCTURED CONTAINERS)
 - UPRIGHT OVERTURNED OR TIPPED CONTAINERS)
 - CLOSE APPROPRIATE VALVE(S)
 - CONTAIN THE SPILL - THE SPILLED SUBSTANCE SHOULD BE CONTAINED WITHIN THE IMMEDIATE AREA. PREVENT FLOW TOWARDS, DRAINAGE DITCHES, AND SEWER SYSTEMS IF IT CAN BE DONE SAFELY.
 - PLACE NONREACTIVE ABSORBENT MATERIAL SUCH AS SAND, EARTH, STRAW, VERMICULITE, ABSORBENT PILLOWS OR BOOMS ON THE SPILL.
 - BLOCK THE SPILL FROM ENTERING STORM DRAINS OR SEWERS BY CONSTRUCTING A DIKE AROUND ALL POINTS OF ENTRY.
 - IF THE SPILL IS ON THE GROUND, CLEAN IT UP IMMEDIATELY BY DIGGING TRUCKS, TRANSPORTING MATERIALS LIKELY TO GIVE RISE TO AIRBORNE DUSTS.
 - IF THE SPILL IS ON THE GROUND, CLEAN IT UP IMMEDIATELY BY DIGGING TRUCKS, TRANSPORTING MATERIALS LIKELY TO GIVE RISE TO AIRBORNE DUSTS.
 - IF THE SPILL IS ON THE GROUND, CLEAN IT UP IMMEDIATELY BY DIGGING TRUCKS, TRANSPORTING MATERIALS LIKELY TO GIVE RISE TO AIRBORNE DUSTS.
 - DISPOSING OF IT PROPERLY.

DUST CONTROL BY IRRIGATION

- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL, AND OTHER DELTERIOUS MATERIALS TO BE USED FOR ON-SITE DUST CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
- FOR WATER APPLICATION TO UNDISTURBED OIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPRAY BAR PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WATER.
 - DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 30 PSI MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS FOGGING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
 - LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS.
 - KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS FOGGING.
 - APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND CONSTRUCTION BOUNDARIES.
- CONTRACTOR SHALL REFER TO "MANUAL FOR EROSION AND SEDIMENT CONTROL" IN GEORGIA" LATEST EDITION FOR ADDITIONAL INFORMATION ON TEMPORARY AND PERMANENT DUST CONTROL BMP'S.

TOPSOILING

- DETERMINE WHETHER THE QUALITY AND QUANTITY OF AVAILABLE TOPSOIL JUSTIFIES SELECTIVE HANDLING.
- SOILS OF THE TEXTURAL CLASS OF LOAM, SANDY LOAM, AND SILT LOAM ARE BEST. SANDY CLAY LOAM, SILTY CLAY LOAM, CLAY LOAM AND LOAMY SAND ARE FAIR. DO NOT USE HEAVY CLAY & ORGANIC SOILS SUCH AS PEAT OR MUCK AS TOPSOIL.
- STRIP TOPSOIL ONLY FROM THOSE AREAS THAT WILL BE DISTURBED BY EXCAVATION, FILLING, ROLLING, ROAD BUILDING, OR COMPACTING BY EQUIPMENT. A 4-6 INCHES (0.1-0.2 M) STRIPPING DEPTH IS COMMON, BUT DEPTH VARIES DEPENDING ON THE SITE.
- DETERMINE DEPTH OF STRIPPING BY TAKING SOIL CORES AT SEVERAL LOCATIONS WITHIN EACH AREA TO BE STRIPPED. TOPSOIL DEPTH GENERALLY VARIES ALONG A GRADIENT FROM HILLTOP TO TOE OF THE SLOPE.
- PUT SEDIMENT BASINS, DIVERSIONS, AND OTHER CONTROLS INTO PLACE BEFORE STRIPPING.
- SELECT STOCKPILE LOCATION TO AVOID SLOPES, NATURAL DRAINAGE WAYS, AND TRAFFIC ROUTES. ON LARGE SITES, RE-SPREADING IS EASIER AND MORE ECONOMIC. WHEN TOPSOIL IS ECONOMIC. WHEN TOPSOIL IS STOCKPILED IN SMALL PILES. LOCATED NEAR AREAS WHERE THEY WILL BE USED.
- USE SILT FENCES OR OTHER BARRIERS WHERE NECESSARY TO RETAIN SEDIMENT.
- PROTECT TOPSOIL STOCKPILES BY TEMPORARILY SEEDING AND/OR MULCHING AS SOON AS POSSIBLE TO ASSURE THE STORED MATERIAL IS NOT EXPOSED AND ALLOWED TO ERODE.
- IF STOCKPILES WILL NOT BE USED WITHIN 12 MONTHS THEY MUST BE STABILIZED WITH PERMANENT VEGETATION TO CONTROL EROSION AND WEED GROWTH.
- BEFORE SPREADING TOPSOIL, ESTABLISH EROSION AND SEDIMENTATION CONTROL PRACTICES SUCH AS DIVERSIONS, BERMS, DIKES, WATERWAYS AND SEDIMENT BASINS.
- WHERE THE PH OF THE EXISTING SUBSOIL IS 6.0 OR LESS, OR THE SOIL IS COMPOSED OF HEAVY CLAYS, INCORPORATE AGRICULTURAL LIMESTONE IN AMOUNTS RECOMMENDED BY SOIL TESTS OR SPECIFIED FOR THE SEEDING MIXTURE TO BE USED. INCORPORATE LIME TO A DEPTH OF AT LEAST 2 INCHES (51 MM) BY DISKING.
- IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, LOOSEN THE SUBGRADE BY DISKING OR SCARIFYING TO A DEPTH OF AT LEAST 3 INCHES (76 MM), TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL. IF NO AMENDMENTS HAVE BEEN INCORPORATED, LOOSEN THE SOIL TO A DEPTH OF AT LEAST 6 INCHES (153 MM) BEFORE SPREADING TOPSOIL.
- UNIFORMLY DISTRIBUTE TOPSOIL TO A MINIMUM COMPACTED DEPTH OF 2 INCHES (51 MM) ON 3:1 SLOPES AND 4 INCHES (102 MM) ON FLATTER SLOPES.
- DO NOT SPREAD TOPSOIL WHILE IT IS FROZEN OR MUDDY OR WHEN THE SUBGRADE IS WET OR FROZEN.
- CORRECT ANY IRREGULARITIES IN THE SURFACE THAT RESULT FROM TOPSOILING OR OTHER OPERATIONS TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL, BUT AVOID EXCESSIVE COMPACTING, AS IT INCREASES RUNOFF AND INHIBITS SEED GERMINATION. LIGHT PAVING WITH A ROLLER IS RECOMMENDED WHERE HIGH MAINTENANCE TURF IS TO BE ESTABLISHED.
- ON SLOPES AND AREAS THAT WILL NOT BE MOVED, THE SURFACE MAY BE LEFT ROUGH AFTER SPREADING TOPSOIL. A DISK MAY BE USED TO PROMOTE BONDING AT THE INTERFACE BETWEEN THE TOPSOIL AND SUBSOIL.



- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - APPROPRIATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5" - 3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6"
 - PAD WIDTH SHALL BE EQUAL FILL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20"
 - A DIVERSION RIDEY SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - 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).
 - 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.
 - 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 CLEANUP OF ANY NEARBY USED TO TRAP SEDIMENT.

CRUSHED STONE CONSTRUCTION EXIT

NO SCALE

GS&WC Georgia-S&W Stone Construction Company
 WILLIAM T. BUCHANAN
 Licensed Professional Engineer
 Registration Number: 000055516
 Issue: 1/25/2018, Expires: 1/25/2021

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AUGUSTA, GA
 5351 BELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3
 CLIENT: AUGUSTA, GA
 PROJECT NAME: FIRE STATION #3
 PROJECT LOCATION: 2649 GORDON HWY., AUGUSTA, GA 30909

GEORGIA PROFESSIONAL SEAL
 WILLIAM T. BUCHANAN
 License No. 000055516
 Issue Date: 1/25/2018
 Expires: 1/25/2021

NO.	REVISION	DATE	BY	DESCRIPTION
1	REVISED FOR PERMIT	06/29/2018	WTB	REVISED FOR PERMIT
2	REVISED FOR PERMIT	08/15/2018	WTB	REVISED FOR PERMIT
3	REVISED FOR PERMIT	09/20/2018	WTB	REVISED FOR PERMIT
4	REVISED FOR PERMIT	10/23/2018	WTB	REVISED FOR PERMIT
5	REVISED FOR PERMIT	11/15/2018	WTB	REVISED FOR PERMIT
6	REVISED FOR PERMIT	12/15/2018	WTB	REVISED FOR PERMIT
7	REVISED FOR PERMIT	01/15/2019	WTB	REVISED FOR PERMIT
8	REVISED FOR PERMIT	02/15/2019	WTB	REVISED FOR PERMIT
9	REVISED FOR PERMIT	03/15/2019	WTB	REVISED FOR PERMIT
10	REVISED FOR PERMIT	04/15/2019	WTB	REVISED FOR PERMIT
11	REVISED FOR PERMIT	05/15/2019	WTB	REVISED FOR PERMIT
12	REVISED FOR PERMIT	06/15/2019	WTB	REVISED FOR PERMIT
13	REVISED FOR PERMIT	07/15/2019	WTB	REVISED FOR PERMIT
14	REVISED FOR PERMIT	08/15/2019	WTB	REVISED FOR PERMIT
15	REVISED FOR PERMIT	09/15/2019	WTB	REVISED FOR PERMIT
16	REVISED FOR PERMIT	10/15/2019	WTB	REVISED FOR PERMIT
17	REVISED FOR PERMIT	11/15/2019	WTB	REVISED FOR PERMIT
18	REVISED FOR PERMIT	12/15/2019	WTB	REVISED FOR PERMIT
19	REVISED FOR PERMIT	01/15/2020	WTB	REVISED FOR PERMIT
20	REVISED FOR PERMIT	02/15/2020	WTB	REVISED FOR PERMIT
21	REVISED FOR PERMIT	03/15/2020	WTB	REVISED FOR PERMIT
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26	REVISED FOR PERMIT	08/15/2020	WTB	REVISED FOR PERMIT
27	REVISED FOR PERMIT	09/15/2020	WTB	REVISED FOR PERMIT
28	REVISED FOR PERMIT	10/15/2020	WTB	REVISED FOR PERMIT
29	REVISED FOR PERMIT	11/15/2020	WTB	REVISED FOR PERMIT
30	REVISED FOR PERMIT	12/15/2020	WTB	REVISED FOR PERMIT

PROJECT NO: 30421604
 DRAWN BY: CRE
 CHECKED BY: WTB
 DATE: 10/18/17
 SHEET TITLE: E.S.P.C. NOTES & DETAILS - 1 OF 5

SCALE: AS NOTED
 DRAWING NO: **C-504**
 REV: 4

Species	Rate per Acre	Rate per 1,000 sq. ft.	Planting Dates by Region			Remarks
			M	P	C	
Bamboo	3 lbs.	0.9 lbs.	01-11-10	01-11-10	01-11-10	
Oak	4 lbs.	1.1 lbs.	01-11-10	01-11-10	01-11-10	
Turkey	3 lbs.	0.9 lbs.	01-11-10	01-11-10	01-11-10	
Redbay	40 lbs.	10.9 lbs.	01-11-10	01-11-10	01-11-10	
Rye Grass Annual	3.0 lbs.	0.8 lbs.	01-11-10	01-11-10	01-11-10	
Rye Grass (Perennial)	0.5 lbs.	0.1 lbs.	01-11-10	01-11-10	01-11-10	
Leguminous Annual	40 lbs.	10.9 lbs.	01-11-10	01-11-10	01-11-10	
Weeping Lovegrass	4 lbs.	1.1 lbs.	01-11-10	01-11-10	01-11-10	
Sodgrass	60 lbs.	16.4 lbs.	01-11-10	01-11-10	01-11-10	
Misc. Broadleaf	40 lbs.	10.9 lbs.	01-11-10	01-11-10	01-11-10	
Misc. Pearl	50 lbs.	13.5 lbs.	01-11-10	01-11-10	01-11-10	
Wheat	3 lbs.	0.9 lbs.	01-11-10	01-11-10	01-11-10	

Species	Rate per Acre	Rate per 1,000 sq. ft.	Planting Dates by Region			Remarks
			M	P	C	
Bermuda, Common (Hulled seed)	10 lbs.	2.6 lbs.	01-11-10	01-11-10	01-11-10	Quick cover, low growing, soil forming, needs full sun.
With Perennials	6 lbs.	1.6 lbs.	---	---	---	
Bermuda, Common (Unhulled seed)	10 lbs.	2.6 lbs.	---	---	---	Plant with winter annuals.
With temporary cover	6 lbs.	1.6 lbs.	10-1-20	11-1-21	---	
With other perennials	4 lbs.	1.1 lbs.	---	---	---	
Bermuda Sprigs	4000 lb.	1000 lb.	01-11-10	01-11-10	01-11-10	1 lb. = 1.25 cu. ft. or 800 sprigs.
With temporary cover	800 lb.	200 lb.	---	---	---	

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

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	% Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	30
	Maintenance	10-10-10	400	30
Cool season grasses & legumes	First	6-12-12	1500	50-100
	Second	6-12-12	1000	30
	Maintenance	10-10-10	400	30
Ground cover	First	10-10-10	1300	---
	Second	10-10-10	1300	---
	Maintenance	10-10-10	1100	---
Pine seedlings	First	20-10-5	---	---
	Second	20-10-5	---	---
Shrub/Landscape	First	6-10-10	700	---
	Maintenance	6-10-10	700	---
Temporary cover crops seeded alone	First	10-10-10	500	30
	Second	10-10-10	500	30
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
Warm season grasses & legumes	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

Material	Depth
Dry Straw or Hay	2" To 4"
Wood Waste (bark, chips)	2" To 3"
Custom Agricul	1200 Gal./acre (114 Gal./sq. ft.)
Black Polyethylene Film	Completely Cover Area, Fold In Place With 6" On Outer Edge

M.L. represents the Mountain, Blue Ridge, and Ridge and Valley MLRAs
P represents the Southern Piedmont Region MLRAs
C represents the Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coast Flatwoods MLRAs

Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq. ft)	Season
10-10-10	1000	.025	Fall

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tifdew	M-L, P-C, P-C, P-C	warm weather
Bahiagrass	Pensacola	P-C	warm weather
Centipede	---	P-C	warm weather
St. Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P-C	warm weather
Tall Fescue	Kentucky	M-L, P	cool weather

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first	6-12-12	1500	50-100
	second	6-12-12	1000	30
	maintenance	10-10-10	400	30
warm season grasses	first	6-12-12	800	50-100
	second	6-12-12	800	50-100
	maintenance	10-10-10	400	30

Ds2 TEMPORARY GRASSING

- ALL SEEDING AREAS WILL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2 TO 12 TONS PER ACRE WITHIN 24 HRS. AFTER SEEDING. USE OF A TACKIFIER IS REQUIRED ON ALL SLOPES EXCEEDING 3:1.
- GRASSING WILL BE ACCEPTED WHEN A 90% COVER BY PERMANENT GRASSING IS OBTAINED AND WEEDS ARE NOT DOMINANT.
- GRASSING OF DISTURBED AREAS WILL COMMENCE AT COMPLETION OF EACH PHASE OF CONSTRUCTION OR IN THE SEQUENCE AS INDICATED. IN ANY CASE, GRASSING OF ANY DISTURBED AREA WILL

Ds3 PERMANENT GRASSING

- IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.
- TOPDRESSING WILL BE APPLIED ON ALL TEMPORARY & PERMANENT SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES.
- PERMANENT GRASSING SHALL BE IRRIGATED AND MAINTAINED. BERMUADA GRASS MAY BE MOWED AS DESIRED MAINTAINING AT LEAST 4 TO 6 INCHES OF TOP GROWTH.

Ds1 MULCHING

GRASSING, FERTILIZATION & MULCH

NO SCALE

DESCRIPTION:

PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE BY CONDUCTING OFF-SITE WASHOUT, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

TARGETED POLLUTANTS: CONCRETE WASTE

CONSTRUCTION GUIDELINES:

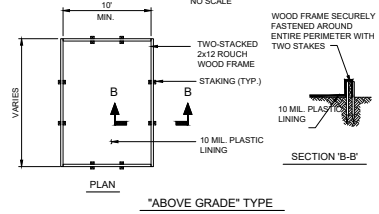
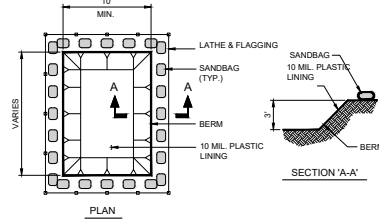
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.

FOR ON-SITE WASHOUT:

- LOCATE WASHOUT AREA AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. CONSTRUCT A TEMPORARY PIT OR BERMED/DIKED AREA WITH A PAVED OR GRAVEL APPROACH TO CAPTURE LIQUID AND SOLID WASTE.
- WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, DRAIN THE WATER TO A BERMED, DIKED OR LEVEL AREA.
- AVOID WASHING SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.
- TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

MAINTENANCE:

- INSPECT SUBCONTRACTORS TO ENSURE THAT CONCRETE WASTES ARE BEING PROPERLY MANAGED. TEMPORARY WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITY MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
- IF USING A TEMPORARY PIT, DISPOSE HARDENED CONCRETE ON A REGULAR BASIS. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT SHALL BE BACKFILLED AND REPAIRED.



NOTES:

- CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT FACILITY AND SHALL BE CONSTRUCTED PER THE DETAIL SHOWN ABOVE.
- THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED AT A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
- WASHOUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS AND OTHER EQUIPMENT SHALL BE TRANSPORTED OFF-SITE AND DISPOSED OF PROPERLY.
- IT IS PROHIBITED TO WASH OUT THE MIXING DRUM OF CONCRETE TRUCKS ON-SITE.
- ACTUAL LAYOUT CAN BE DETERMINED IN FIELD OR AS SHOWN IN PLAN.
- CONCRETE WASHOUT SIGN SHALL BE PROVIDED WITHIN 30' OF THE CONCRETE WASHOUT FACILITY.

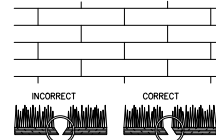
CWM CONCRETE WASTE MANAGEMENT

NO SCALE

Cr CONSTRUCTION ROAD STABILIZATION

NO SCALE

SOD LAYOUT AND PREPARATION

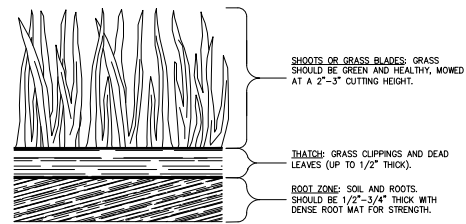


LAY SOD IN A STAGGERED PATTERN. BUT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRAMMING PECS.

DIRECTIONS FOR INITIAL MAINTENANCE

- ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL
- WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAD.
- MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS SET THE MOWER HIGH (2"-3").

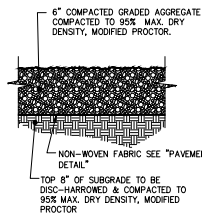
APPEARANCE OF GOOD SOD



SOD MAINTENANCE AND INSTALLATION

Ds4 PERMANENT GRASSING - SOD

NO SCALE



GSWCC Georgia Soil and Water Conservation Commission
WILLIAM T. BUCHANAN
Level II Certified Design Professional
Registration Number: 000095516
Issue: 1/25/2018, Expires: 1/25/2021

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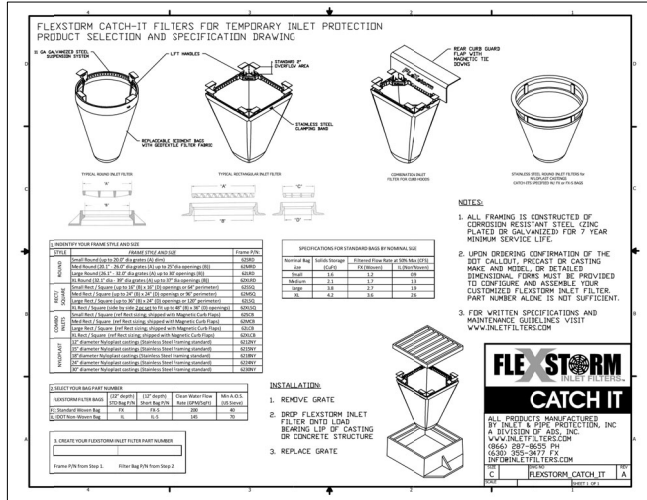
CLIENT: AUGUSTA, GA
551 TELFAIR STREET, AUGUSTA, GA 30901
PROJECT NAME: FIRE STATION #3
PROJECT LOCATION: 2649 GORDON HWY., AUGUSTA, GA 30909

GEORGIA PROFESSIONAL SEAL
WILLIAM T. BUCHANAN
Level II Certified Design Professional
No. 000095516
Issue: 1/25/2018, Expires: 1/25/2021

NO.	DATE	BY	DESCRIPTION
1	07/25/18	WTB	ISSUED FOR PERMITS
2	08/02/18	WTB	RESUBMITTAL #1 TO AEC
3	08/22/18	WTB	RESUBMITTAL #1 TO AEC
4	08/22/18	WTB	ISSUED FOR PERMITS
5	09/12/18	WTB	RESUBMITTAL FOR SITE / LAND DISTURBANCE PERMIT
6	10/18/18	WTB	ISSUED FOR AEC

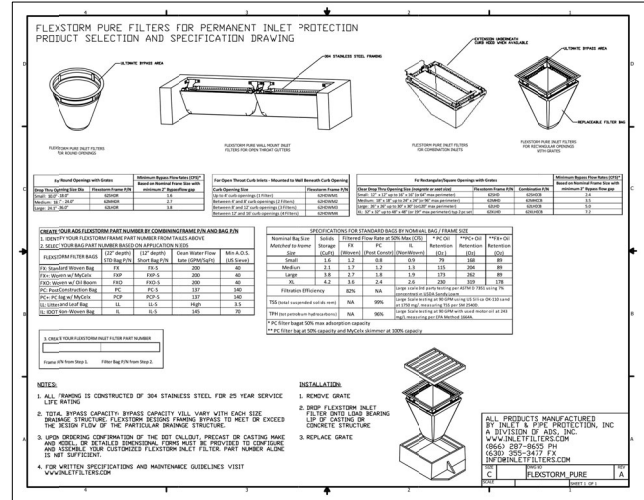
PROJECT NO: 3042.1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17
SHEET TITLE:
E.S.P.C. DETAILS & NOTES - SHT. 2 OF 5

SCALE: AS NOTED
DRAWING NO: **C-505**
REV: 4



Sd2-F FLEX FILTER INLET SEDIMENT TRAP (TEMPORARY)
NO SCALE

Sk TEMPORARY SKIMMER FOR SEDIMENT BASIN
NO SCALE



Sd2-F FLEX FILTER INLET SEDIMENT TRAP (PERMANENT)
NO SCALE

CONSTRUCTION SCHEDULE

START DATE: 04/01/20
END DATE: 04/01/21

ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY												
		1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 1 - INITIAL PERIMETER CONTROL														
1	INSTITUTE AND MAINTAIN INSPECTION, MONITORING AND REPORTING PER NPDES REQUIREMENTS.													
2	INSTALL INITIAL SEDIMENT CONTROL STRUCTURES													
3	CLEARING & GRUBBING													
PHASE 2 - INTERMEDIATE PHASE														
6	TOPSOIL STRIPPING & STOCKPILING													
8	LAND GRADING													
9	CONSTRUCTION ROAD STABILIZATION													
10	STORM DRAINAGE													
11	UTILITIES													
12	MULCHING, TEMPORARY & PERMANENT GRASSING													
13	BUILDINGS													
14	CURBS & GUTTER INSTALLATION													
15	BASE AND INITIAL PAVING													
PHASE 3 - FINAL STABILIZATION														
16	SIDEWALKS													
17	PAVING & STRIPING													
18	TOPSOILING, SLOPE STABILIZATION & MATTING													
19	PERMANENT VEGETATION													
20	REMOVAL OF TEMP. SEDIMENT CONTROL STRUCTURES													

- NOTES:**
- OWNERS OR OPERATORS OR BOTH SHALL SUBMIT A NOTICE OF INTENT (NOI) IN ACCORDANCE WITH NPDES REQUIREMENTS AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
 - CONSTRUCTION SCHEDULE FOR CURBS & GUTTER AND BASE & PAVEMENT MAY VARY. BUILDING CONSTRUCTION NOT ALLOWED UNTIL ALL SOIL EROSION & SEDIMENT CONTROL MEASURES ARE PROPERLY IN PLACE.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
 - ACQUIRE NECESSARY PERMIT FOR ANY STATE WATERS & WETLANDS ENCROACHMENTS.
 - DURING CONSTRUCTION, CONTRACTOR SHALL CLEAN AND MAINTAIN SEDIMENT TRAPS PERIODICALLY. ALL STORM DRAIN STRUCTURES SHALL BE FREE OF SEDIMENTS AND OTHER DELETERIOUS MATERIALS BEFORE SECURING TOPS & COVERS FOR FINAL GRADING.

WILLIAM T. BUCHANAN
Level II Certified Design Professional
Construction Commission

Registration Number: 000005516
Issue: 1/25/2018, Expires: 1/25/2021



CLIENT: AUGUSTA, GA
551 BELFAIR STREET, AUGUSTA, GA 30901
PROJECT NAME: FIRE STATION #3
PROJECT LOCATION: 2649 GORDON HWY., AUGUSTA, GA 30909



PROJECT NO: 3042 1604
DRAWN BY: CRE
CHECKED BY: WTB
DATE: 10/18/17
SHEET TITLE: E.S.P.C. DETAILS & NOTES - SHT. 3 OF 5
SCALE: AS NOTED
DRAWING NO: C-506
REV: 4

NPDES GENERAL NOTES

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. 100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE CONSTRUCTION PROJECTS.

I.C.1 CONSTRUCTION ACTIVITIES

1. CONSTRUCTION ACTIVITIES. THIS PERMIT AUTHORIZES, SUBJECT TO THE CONDITIONS OF THIS PERMIT:
 - a. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING ON OR BEFORE, AND CONTINUING AFTER, THE EFFECTIVE DATE OF THIS PERMIT. (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3. AND
 - b. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING AFTER THE EFFECTIVE DATE OF THIS PERMIT. (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES).
2. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH MINOR LAND DISTURBING ACTIVITIES (SUCH AS HOME GARDENS AND INDIVIDUAL HOME LANDSCAPING, REPAIRS, MAINTENANCE WORK, FENCE BUILT FOR RELATED ACTIVITIES WHICH RESULT IN MINOR SOIL EROSION) CONDUCTED OUTSIDE OF THE 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS REQUIRING A BUFFER AND INSIDE OF THE 50 FOOT BUFFER OF ANY FEDERAL OR STATE WATERS CLASSIFIED AS "TROUT STREAMS" REQUIRING A BUFFER ON INDIVIDUAL RESIDENTIAL LOTS SOLD TO HOMEOWNERS WHERE ALL PLANNED CONSTRUCTION ACTIVITIES ON THAT LOT HAVE BEEN COMPLETED AND HAVE UNDERGONE FINAL STABILIZATION.

I.C.2 MIXED STORM WATER DISCHARGES

THIS PERMIT MAY ONLY AUTHORIZE A STORM WATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES THAT IS MIXED WITH A STORM WATER DISCHARGE FROM AN INDUSTRIAL, SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION WHERE:

- a. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
- b. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
- c. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

I.C.3 LIMITATIONS ON COVERAGE

THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

- a. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
- b. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART II.C.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT;
- c. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPRESSLY PROVIDES THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
- d. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY BE REASONABLY EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

I.C.4 COMPLIANCE WITH WATER QUALITY STANDARD

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-63.

PART II NOTICE OF INTENT (NOI)

THE CONTRACTOR WHO INTEND TO OBTAIN THIS PERMIT SHALL PREPARE, SIGN & SUBMIT THE NOTICE OF INTENT DOCUMENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST RETURN RECEIPT CERTIFIED MAIL TO BOTH THE APPROPRIATE DISTRICT OFFICE OF EPD AND TO THE LOCAL ISSUING AUTHORITY IN JURISDICTION TO ISSUE A LAND DISTURBING ACTIVITY. REFER TO PART I.A. OF THIS PERMIT FOR MORE INFORMATION. PRIMARY PERMITTEE IS A SINGLE NOTICE OF INTENT FOR THE PRIMARY PERMITTEE (i.e. ONE NOTICE OF INTENT FOR EACH DISTRICT OFFICE OR BOTH) SHALL BE SIGNED IN ACCORDANCE WITH PART V. OF THIS PERMIT AND SHALL INCLUDE THE INFORMATION LISTED UNDER PART I.B.1. OF THIS PERMIT. FEES, ANY APPLICABLE FEES SHALL BE SUBMITTED BY THE PRIMARY PERMITTEE IN ACCORDANCE WITH RULES AND REGULATION FOR WATER QUALITY CONTROL PROMULGATED BY THE BOARD OF NATURAL RESOURCES BY SUBMITTING AND NOT FOR COVERAGE. UNDER THIS PERMIT THE PRIMARY PERMITTEE AGREES TO PAY ANY FEES REQUIRED NOW OR IN THE FUTURE BY SUCH RULES AUTHORIZED UNDER OR EFFECTIVE UNDER THIS PERMIT. THE PRIMARY PERMITTEE SHALL BE RESPONSIBLE FOR ESTABLISHING AND PAYING ALL FEES ALLOWED BY THE BOARD OF NATURAL RESOURCES. THE PRIMARY PERMITTEE SHALL BE ASSESSED ON LAND DISTURBING ACTIVITY PROPOSED TO OCCUR ON OR AFTER THE EFFECTIVE DATE OF THIS PERMIT AND SHALL BE PAID IN ACCORDANCE WITH SUCH RULES.

PART III SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS

A. PROHIBITION ON NON-STORM WATER DISCHARGES

1. EXCEPT AS PROVIDED IN PART I.C.2. AND II.A.2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER.
2. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7. DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUND WATER, AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

B. RELEASES IN EXCESS OF REPORTABLE QUANTITIES

1. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGES FROM A SITE SHALL BE PREVENTED. THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 49 C.F.R. PART 117 AND 49 C.F.R. PART 302 WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 49 C.F.R. 117 OR 49 C.F.R. 302 OCCURS DURING A 24 HOUR PERIOD. THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (800) 666-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 49 C.F.R. 117 AND 49 C.F.R. 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.
2. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL STATE OF DEPARTMENT OF NATURAL RESOURCES PERMIT NO. GAR10001 ENVIRONMENTAL PROTECTION DIVISION
3. DISCHARGES INTO, OR WITHIN ONE MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

FOR CONSTRUCTION ACTIVITIES WHERE THE NOI WAS SUBMITTED WITH 90 DAYS AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE REQUIREMENTS OF PART II.C. OF THIS PERMIT ARE NOT APPLICABLE.

ANY PERMITTEE WHO INTENDS TO OBTAIN COVERAGE UNDER THIS PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USES, AS SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT (300)309/3000 LIST DOCUMENTS ("FINAL") AT THE TIME OF NOI SUBMITTAL, MUST SATISFY THE REQUIREMENTS OF PART II.C. OF THIS PERMIT IF THE IMPAIRED STREAM SEGMENT HAS BEEN LISTED FOR CRITERIA VIOLATED: "BIO F" (IMPAIRED FISH COMMUNITY) AND/OR "BIO M" (IMPAIRED MACROINVERTEBRATE COMMUNITY), WITHIN CATEGORY 4L, 4B OR 5L, AND THE POTENTIAL CAUSE IS EITHER "NP" (NONPOINT SOURCE) OR "UR" (URBAN RUNOFF). THOSE DISCHARGES WHICH ARE LOCATED WITHIN ONE (1) LINEAR MILE OF AN IMPAIRED STREAM SEGMENT, BUT ARE NOT LOCATED WITHIN THE WATERSHED OF ANY PORTION OF THAT STREAM SEGMENT, ARE EXCLUDED FROM THIS REQUIREMENT.

D. MANAGEMENT PRACTICES AND PERMIT VIOLATIONS

1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THIS PERMIT, ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL), PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA, STATE OF GEORGIA PAGE 14 OF 33 PARTMENT OF NATURAL RESOURCES PERMIT NO. GAR10001 ENVIRONMENTAL PROTECTION DIVISION PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART II.D.3. AND PART III.4.
2. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH SUCH DISCHARGE OCCURS. BMP MAINTENANCE AS A RESULT OF THE PERMITTEE'S ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION FOR THE PURPOSES OF THIS PARAGRAPH. DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTION BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2. OF THIS PERMIT.
3. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATERS BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS "TROUT STREAMS" OR MORE THAN FIVE (5) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.1. THIS PARAGRAPH SHALL NOT APPLY TO ANY DISCHARGE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DEVELOPED.
4. WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED IN APPENDIX B (TURBIDITY) OF THIS PERMIT. THE PERMITTEE SHALL CORRECT THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA, AND THE LOCATION OF THE RECEIVING WATERS (SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6 AT WWW.GAEPD.ORG.

IV.A.5 INITIAL INSPECTION

FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE AND STABILIZATION MEASURES AND PROVIDE WITH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF THE REPORT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

IV.D.4 INSPECTIONS

- A. PERMITTEE REQUIREMENTS:
 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY SHALL BE EXPOSED TO PRECIPITATION, AND (a) STRUCTURAL CONTROL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (a) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE FERTILIZERS, PESTICIDES ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (b) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
 2. MEASURE RAINFALL ONCE EACH 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED AT ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER A STORM THAT IS 0.2 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY SUNDAY OR ON ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY). INSPECTIONS SHALL BE CONDUCTED IN ALL AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE. (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, AND (c) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE SHALL INSPECT FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS).
 4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS).
5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATES OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(5), OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE EROSION OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THIS REPORT SHALL BE SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ANY INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE PERMITTEE SHALL BE REQUIRED TO OBTAIN A CERTIFICATION FROM THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.6.2 OF THIS PERMIT.

IV.D.5 MAINTENANCE

THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

IV.D.6 SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATERS (S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY:

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION. (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANUAL FIELD VERIFICATION INTO WHICH THE STORM WATER IS DISCHARGED AND (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATERS (S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATERS (S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER ENTERS THE RECEIVING WATERS (S) TO THE POINT WHERE THE RECEIVING WATERS (S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.
- (2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/AQUASITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
- (3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
- (4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE MANUAL. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

- a. SAMPLE TYPE: ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 49 C.F.R. PART 138 UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED; THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
- (1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- (2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- (3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THROUGHLY TO AVOID CONTAMINATION.
- (4) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- (5) SAMPLING AND ANALYSIS OF THE RECEIVING WATERS (S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.
- c. SAMPLING POINTS:
 - (1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATERS (S), OR ALL OUTFALLS (S), OR A COMBINATION OF RECEIVING WATERS (S) AND OUTFALLS (S) SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATERS (S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
 - (a) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATERS (S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONfluence OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS (S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
 - (b) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATERS (S) MUST BE TAKEN DOWNSTREAM OF THE CONfluence OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS (S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

- (c) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATERS (S) OR THE STORM WATER OUTFALL CHANNEL(S).

- (c) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS (S) OR IN THE OUTFALL STORM WATER CHANNEL.
- (d) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

- (f) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

- (g) PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHEET FLOW, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OR A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN UNIFORMLY COVERED WITH LANDSCAPING MATERIAL IN PLANNED LANDSCAPED AREAS, OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL, EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.

- (h) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN PARTS B.D.3. OR II.D.4., WHICHEVER IS APPLICABLE.

4. SAMPLING FREQUENCY:
 - (1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON THEREAFTER.
 - (2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE POSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

- (b) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

- (a) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
- (b) IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOI, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

- (c) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT SAMPLING EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS' UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED OR UNTIL THE NEXT STORM EVENT INSPECTORS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

- (d) WHERE SAMPLING PURSUANT TO (a), (b), OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b), OR (c) ABOVE; AND

- (e) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (a) ABOVE.
- (f) NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

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FIRE STATION #3

CLIENT: AUGUSTA, GA
PROJECT NAME: 535 TEAFIELD STREET, AUGUSTA, GA 30901
PROJECT LOCATION: 2649 GORDON HWY., AUGUSTA, GA 30909

PROJECT NO. 3042 1604	
DRAWN BY: CRE	DATE: 10/18/17
DESIGNED BY: WTB	
CHECKED BY: WTB	
IN CHARGE BY: WTB	
DATE: 10/18/17	
SHEET TITLE: E.S.P.C. DETAILS & NOTES - SHT. 4 OF 5	
SCALE: AS NOTED	
DRAWING NO. 000005516	REV. 4
DATE: 1/25/2018	DATE: 1/25/2018

WILLIAMS T. BUCHANAN
Licensors of Certified Design Professionals
Georgia Soil and Water Conservation Commission

CERTIFICATION NUMBER: 000005516
EXPIRES: 12/31/2018

PROJECT NO. 3042 1604
DRAWING NO. 000005516
DATE: 1/25/2018

IV.D.7 NON-STORM WATER DISCHARGES

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART II.B.2.C. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

IV.E REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART VI.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 a. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
 b. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 c. THE DATE(S) ANALYSES WERE PERFORMED;
 d. THE TIME(S) ANALYSES WERE CONDUCTED;
 e. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
 f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
 g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
 h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

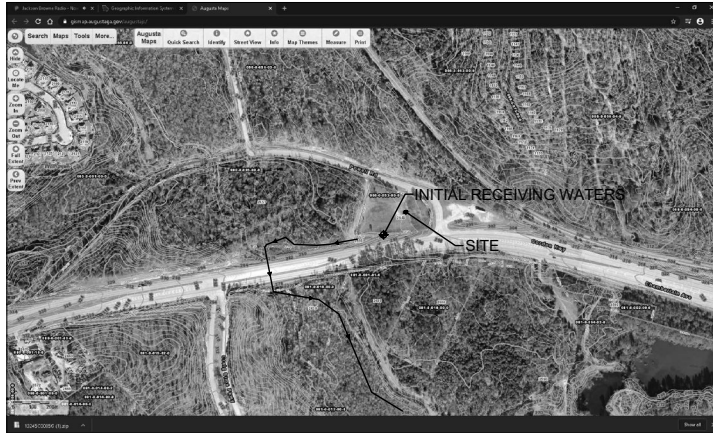
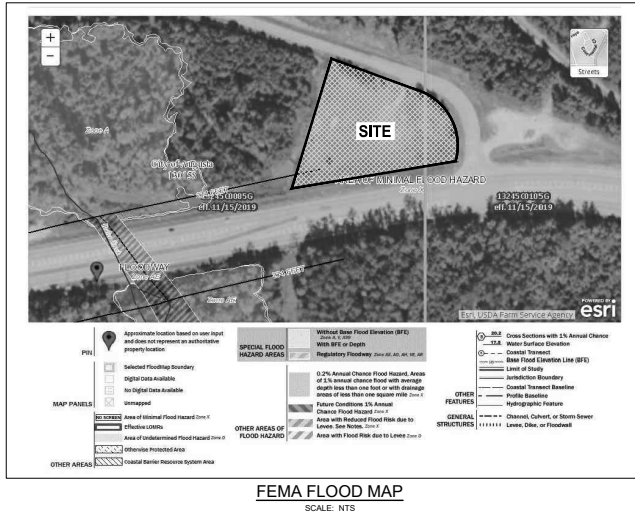
IV.F RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

- A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.6. OF THIS PERMIT;
 - A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
 - DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PROVIDED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

NOTICE OF TERMINATION (NOT)

THE CONTRACTOR SHALL PREPARE, SIGN & SUBMIT THE NOTICE OF TERMINATION DOCUMENTS IN ACCORDANCE TO PART VI OF THIS PERMIT. ALL NOTICES OF TERMINATION BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT AND TO THE LOCAL ISSUING AUTHORITY IN JURISDICTION AUTHORIZED TO ISSUE A LAND DISTURBANCE ACTIVITY PERMIT FOR THE PERMITTEE'S CONSTRUCTION SITE PURSUANT TO O.C.G.A. 12-1-1, ET SEQ.



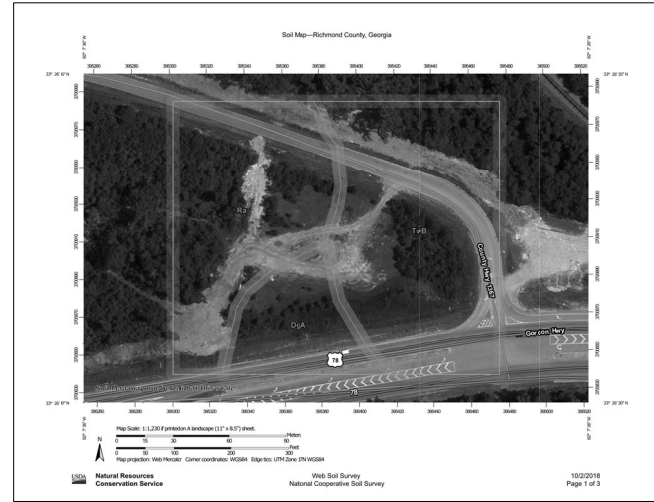
SURFACE DRAINAGE AREA MAP
SCALE: NTS

NPDES GAR 100001 CERTIFICATION

(1) CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001.

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

William T. Buchanan
 WILL T. BUCHANAN, P.E.
 LEVEL II CERT. NO. 00005516
 DATE: 10/20/18



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AGI	Percent of AGI
DgA	Dogie fine sandy loam, 0 to 3 percent slope	0.9	14.7%
Ra	Rains loamy sand	2.3	36.8%
TaB	Troup fine sand, 1 to 5 percent slopes	3.1	48.5%
Totals for Area of Interest		6.3	100.0%

NARRATIVE OF LAND DISTURBING ACTIVITY

THE AUGUSTA FIRE DEPARTMENT PROPOSES THE CONSTRUCTION OF A NEW 1,080 SF FIRE STATION LOCATED ON A 2.10-ACRE PROPERTY AT 2649 GORDON HIGHWAY (TPM 056-0-053-0-0) IN AUGUSTA. THE PROPERTY IS UNDEVELOPED WITH SPARSE VEGETATIVE COVER (POOR CONDITION). THE SITE SLOPES SIGNIFICANTLY (RANGING FROM 5% TO 25%) FROM NORTHEAST TO SOUTHWEST. THE PROPOSED PROJECT WILL INCLUDE ASPHALT AND CONCRETE PAVING, STORMWATER INFRASTRUCTURE AND UTILITIES TO SERVE THE DEVELOPMENT. AN ABOVE GROUND DETENTION POND WILL PROVIDE STORMWATER QUANTITY CONTROL FOR THE DEVELOPMENT. ADS FLEXSTORM PURE INLET FILTERS UPSTREAM OF THE POND WILL PROVIDE WATER QUALITY CONTROL FOR THE DEVELOPMENT. THE SITE SOILS ARE SHOWN TO BE TROUP FINE SAND (HYDROLOGIC GROUP "A"), DOGIE FINE SANDY LOAM (HYDROLOGIC GROUP "C") AND RAINS LOAMY SAND (HYDROLOGIC GROUP "B") AS ACCORDING TO THE USDA / NRCS WEB SOIL SURVEY. STORMWATER RUNOFF FROM THE PROPERTY DRAINS TO BUTLER CREEK.

PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES DURING CONSTRUCTION INCLUDE (CHECKLIST ITEMS 26 & 35):

INITIAL PHASE: PERIMETER CONTROL

- SILT FENCE - TO PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEM BY SLOWING STORM WATER RUNOFF AND CAUSING DEPOSITION OF SEDIMENT AT THE STRUCTURE.
- TEMPORARY SEDIMENT TRAP - TO PREVENT SEDIMENT FLOW FROM LEAVING THE SITE AND ALLOW SEDIMENT TO SETTLE OUT OF STORM WATER PRIOR TO DISCHARGE OFF SITE.
- CONSTRUCTION EXIT - TO REDUCE AND ELIMINATE TRANSPORT OF MUD FROM CONSTRUCTION AREA INTO PUBLIC RIGHTS-OF-WAY BY MOTOR VEHICLES OR BY RUNOFF.
- CONSTRUCTION ROAD TO PROVIDE A FIXED TRAVEL ROUTE FOR CONSTRUCTION TRAFFIC AND REDUCE EROSION AND SUBSEQUENT REGRADING OF PERMANENT ROADS BETWEEN TIME OF INITIAL GRADING AND FINAL STABILIZATION.

INTERMEDIATE PHASE: INTERMEDIATE CONSTRUCTION CONTROL

- SILT FENCE - TO PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEM BY SLOWING STORM WATER RUNOFF AND CAUSING DEPOSITION OF SEDIMENT AT THE STRUCTURE.
- CONSTRUCTION EXIT - TO REDUCE AND ELIMINATE TRANSPORT OF MUD FROM CONSTRUCTION AREA INTO PUBLIC RIGHTS-OF-WAY BY MOTOR VEHICLES OR BY RUNOFF.
- DUST CONTROL - TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACE AND TO REDUCE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.
- EROSION CONTROL MATTING ON SLOPES 3:1 OR GREATER.
- TEMPORARY GRASSING TO REDUCE RUNOFF AND SEDIMENT DRAINAGE OF DOWNSTREAM RESOURCES.
- RIPRAP OUTLET PROTECTION TO REDUCE VELOCITY OF FLOW BEFORE ENTERING RECEIVING CHANNELS BELOW STORM DRAIN OUTLETS.

FINAL PHASE: SITE STABILIZATION

- PERMANENT GRASSING AND/OR VEGETATION AS SPECIFIED ON THE LANDSCAPE PLAN

MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS WILL INCLUDE (CHECKLIST ITEM 26):

- PERMANENT GRASSING AND/OR SEDIMENT DRAINAGE, PROTECT SOIL SURFACE FROM EROSION AND TO IMPROVE INFILTRATION AND ANOXIC AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.

GSWAC Georgia Soil and Water Conservation Commission
 WILLIAM T. BUCHANAN
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 00005516
 ISSUED: 10/20/18, EXPIRES: 10/20/21

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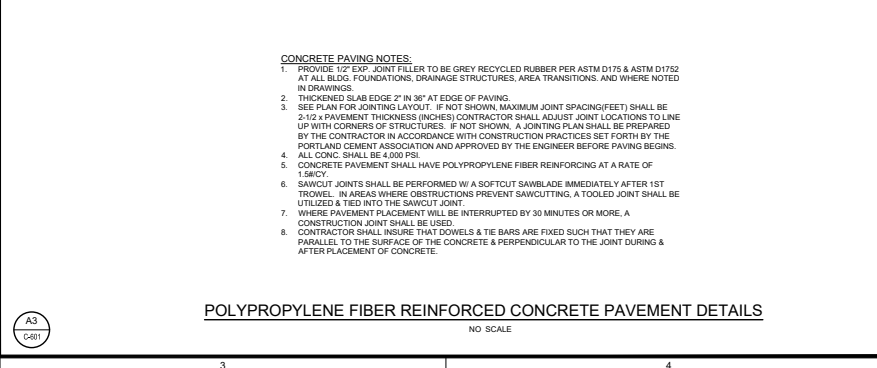
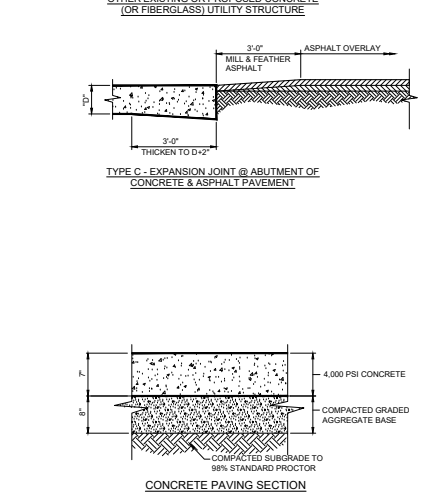
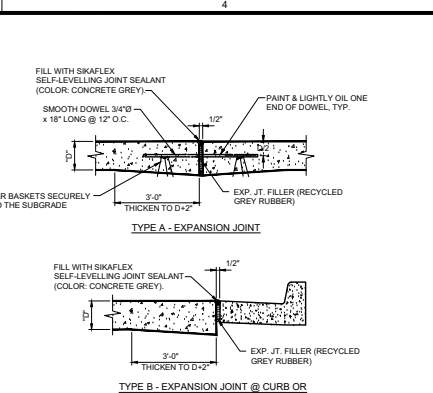
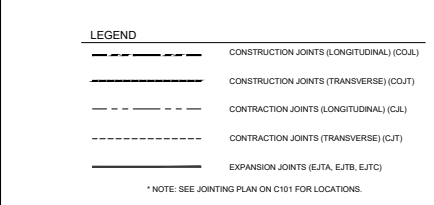
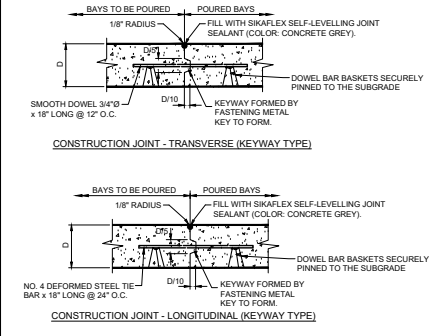
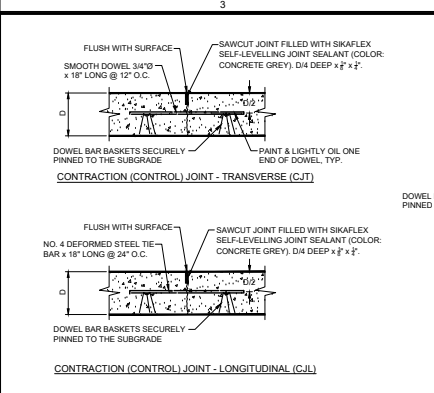
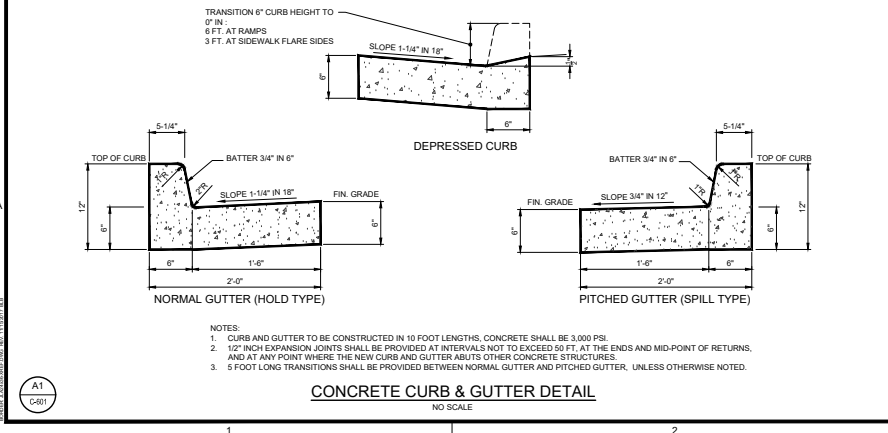
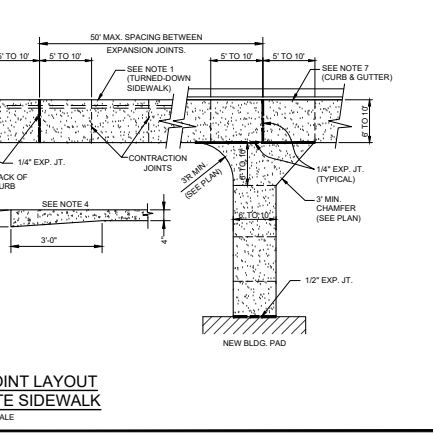
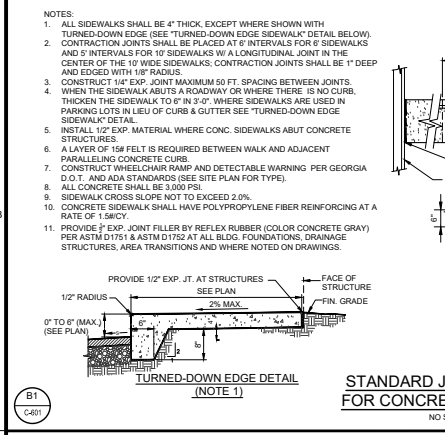
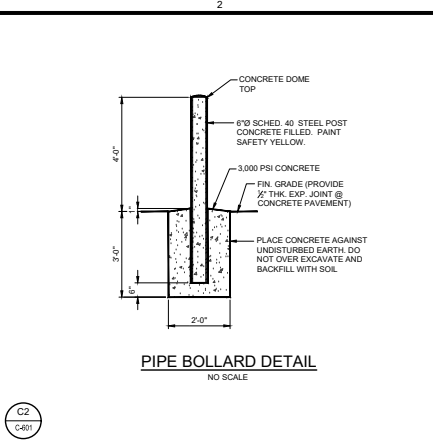
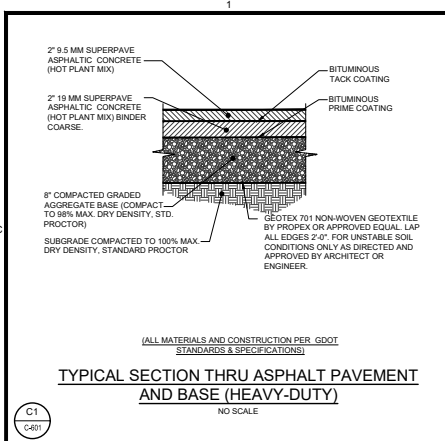
CLIENT: AUGUSTA, GA
 555 TELFAIR STREET, AUGUSTA, GA 30901
 PROJECT NAME: FIRE STATION #3
 PROJECT LOCATION: 2649 GORDON HWY., AUGUSTA, GA 30909

Professional Engineer Seal for William T. Buchanan, State of Georgia, License No. 10005516, Exp. 10/20/21.

NO.	DATE	DESCRIPTION
1	10/20/18	ISSUED FOR PERMIT
2	08/02/20	WITH RESUBMITTAL #1 TO AGC
3	08/02/20	WITH RESUBMITTAL #1 TO AGC
4	10/20/18	WITH RESUBMITTAL FOR SITE / LAND DISTURBANCE PERMIT
5	10/20/18	ISSUED FOR PERMIT

PROJECT NO. 30421604
 DRAWN BY: CRE
 CHECKED BY: WTB
 DATE: 10/18/17
 SHEET TITLE: E.S.P.C. DETAILS & NOTES - SHT. 5 OF 5

SCALE: AS NOTED
 DRAWING NO. **C-508**
 REV. 4



CONCRETE PAVING NOTES:

- PROVIDE 1/2" EXP. JOINT FILLER TO BE GREY RECYCLED RUBBER PER ASTM D175 & ASTM D1752 AT ALL BLDG. FOUNDATIONS, DRAINAGE STRUCTURES, AREA TRANSITIONS, AND WHERE NOTED IN DRAWINGS.
- THICKENED SLAB EDGE 2" IN 36" AT EDGE OF PAVING.
- SEE PLAN FOR JOINTING LAYOUT. IF NOT SHOWN, MAXIMUM JOINT SPACING (FEET) SHALL BE 2-1/2 x PAVEMENT THICKNESS (INCHES). CONTRACTOR SHALL ADJUST JOINT LOCATIONS TO LINE UP WITH CORNERS OF STRUCTURES. IF NOT SHOWN, A JOINTING PLAN SHALL BE PREPARED BY THE CONTRACTOR IN ACCORDANCE WITH CONSTRUCTION PRACTICES SET FORTH BY THE PORTLAND CEMENT ASSOCIATION AND APPROVED BY THE ENGINEER BEFORE PAVING BEGINS.
- ALL CONC. SHALL BE 4,000 PSI.
- CONCRETE PAVEMENT SHALL HAVE POLYPROPYLENE FIBER REINFORCING AT A RATE OF 1.5MCI.
- SAWCUT JOINTS SHALL BE PERFORMED WITH A SOFTCUT SAWBLADE IMMEDIATELY AFTER 1ST TROWEL. IN AREAS WHERE OBSTRUCTIONS PREVENT SAWCUTTING, A TOOLED JOINT SHALL BE UTILIZED & TIED INTO THE SAWCUT JOINT.
- WHERE PAVEMENT PLACEMENT WILL BE INTERRUPTED BY 30 MINUTES OR MORE, A CONSTRUCTION JOINT SHALL BE USED.
- CONTRACTOR SHALL INSURE THAT DOWELS & THE BARS ARE FIXED SUCH THAT THEY ARE PARALLEL TO THE SURFACE OF THE CONCRETE & PERPENDICULAR TO THE JOINT DURING & AFTER PLACEMENT OF CONCRETE.



CLIENT: AUGUSTA, GA
535 TELFAR'S STREET, AUGUSTA, GA 30901

PROJECT NAME: FIRE STATION #3

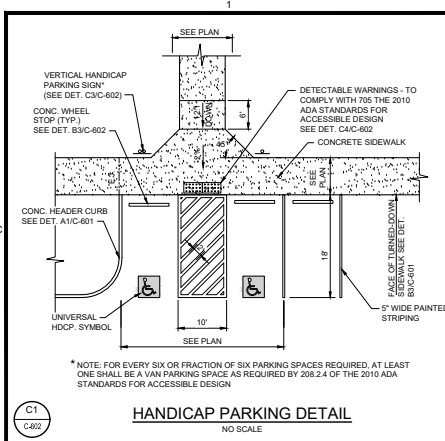
PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909



NO.	DATE	DESCRIPTION	BY	CHK
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3	10/18/17	ISSUED FOR PERMIT	DRWN	CHK
4	10/18/17	ISSUED FOR PERMIT	DRWN	CHK
5	10/18/17	ISSUED FOR PERMIT	DRWN	CHK
6	10/18/17	ISSUED FOR PERMIT	DRWN	CHK
7	10/18/17	ISSUED FOR PERMIT	DRWN	CHK
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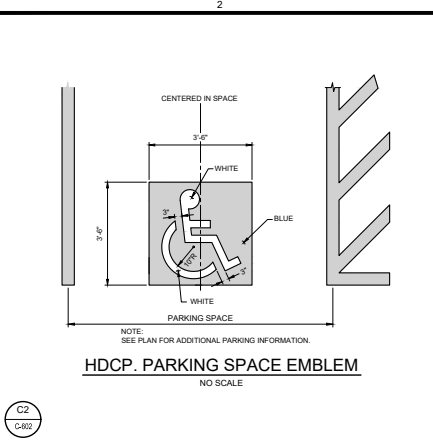
PROJECT NO. 3042.1504
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17
SHEET TITLE: SITE DETAILS - SHT. 1 OF 7

SCALE: 1" = 20"
DRAWING NO. C-601
REV. 4



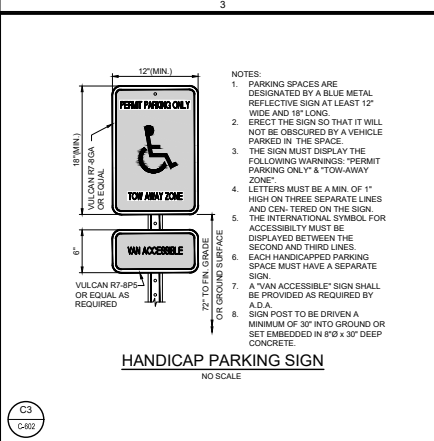
HANDICAP PARKING DETAIL
NO SCALE

C1
C-602



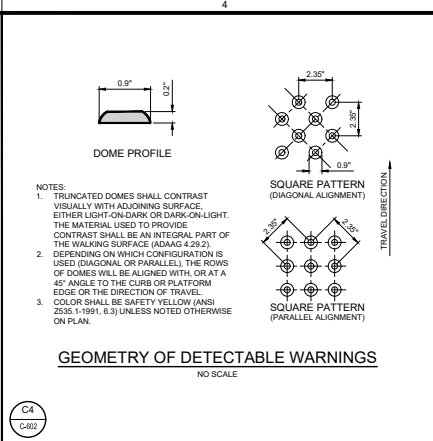
HDCP. PARKING SPACE EMBLEM
NO SCALE

C2
C-602



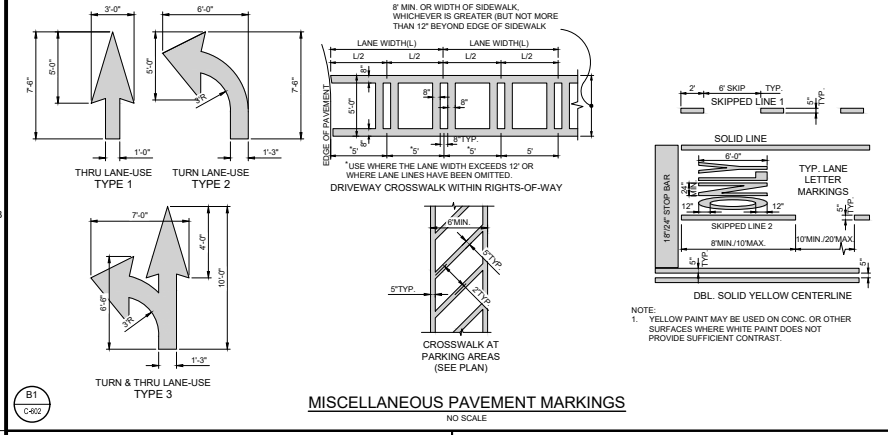
HANDICAP PARKING SIGN
NO SCALE

C3
C-602



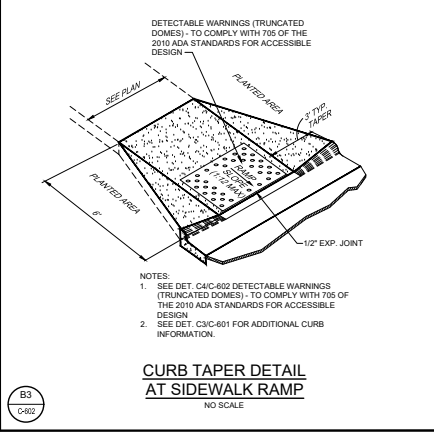
GEOMETRY OF DETECTABLE WARNINGS
NO SCALE

C4
C-602



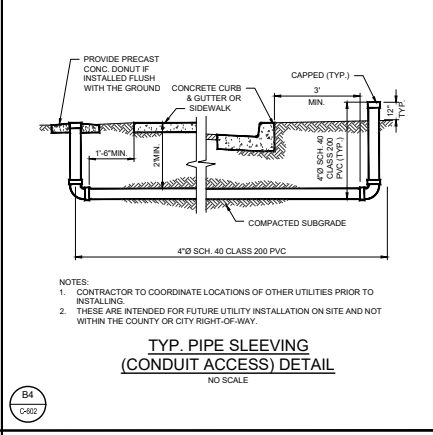
MISCELLANEOUS PAVEMENT MARKINGS
NO SCALE

B1
C-602



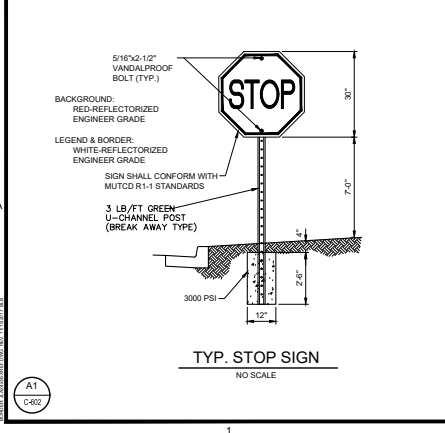
CURB TAPER DETAIL AT SIDEWALK RAMP
NO SCALE

B3
C-602



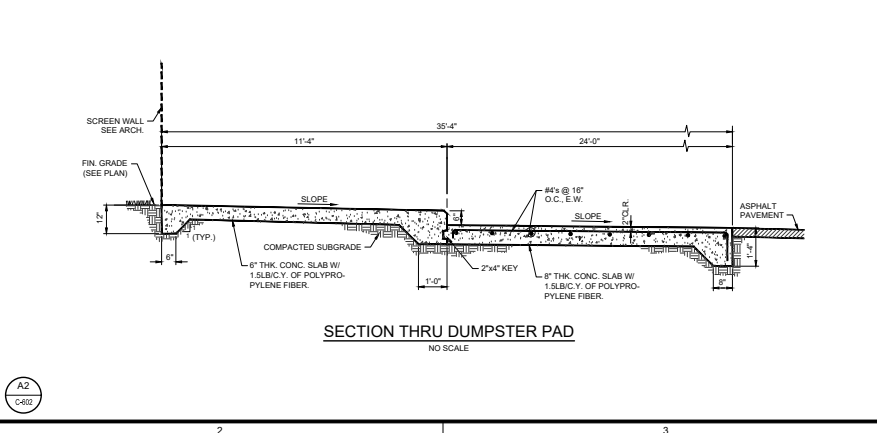
TYP. PIPE SLEEVING (CONDUIT ACCESS) DETAIL
NO SCALE

B4
C-602



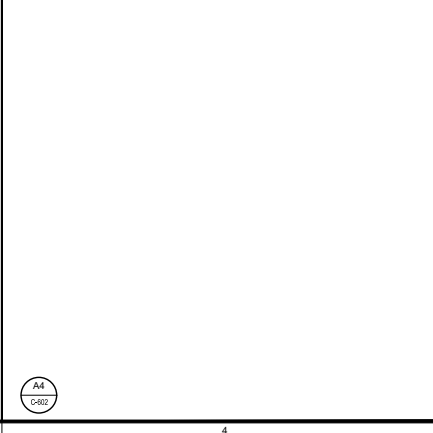
TYP. STOP SIGN
NO SCALE

A1
C-602



SECTION THRU DUMPSTER PAD
NO SCALE

A2
C-602



A4
C-602

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 555 TELFORD STREET, AUGUSTA, GA 30901

PROJECT NAME: **FIRE STATION #3**

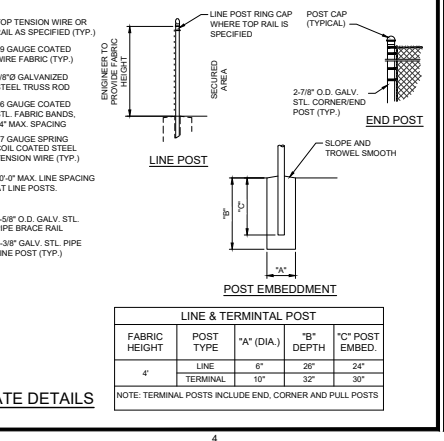
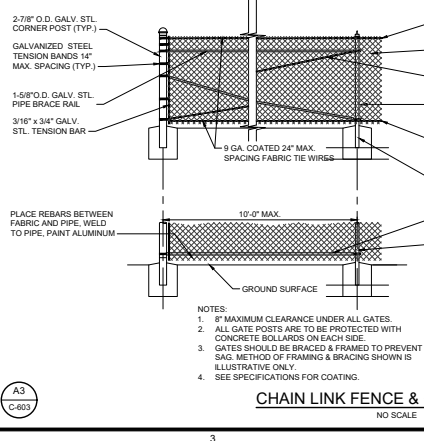
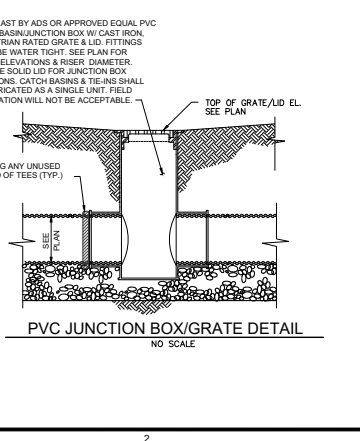
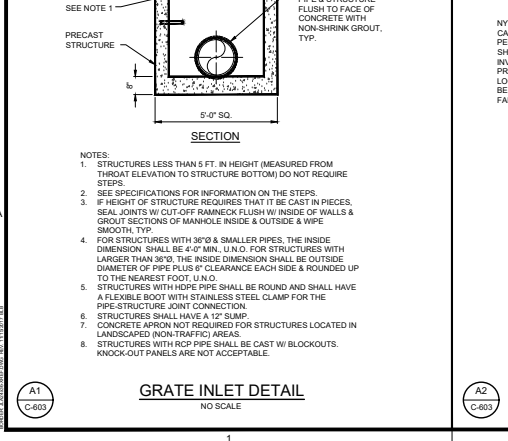
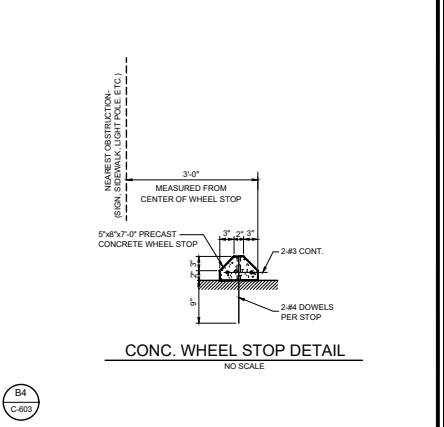
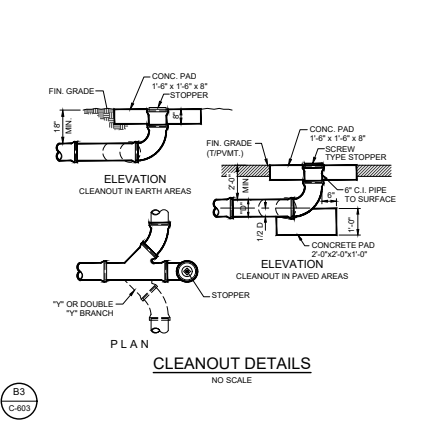
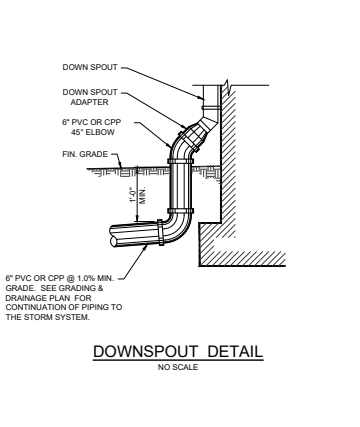
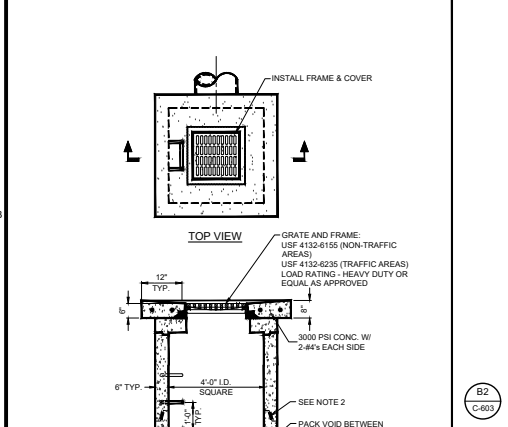
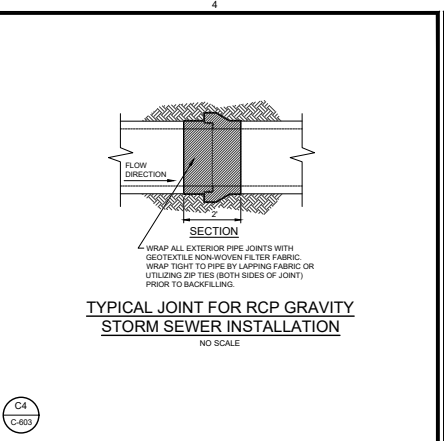
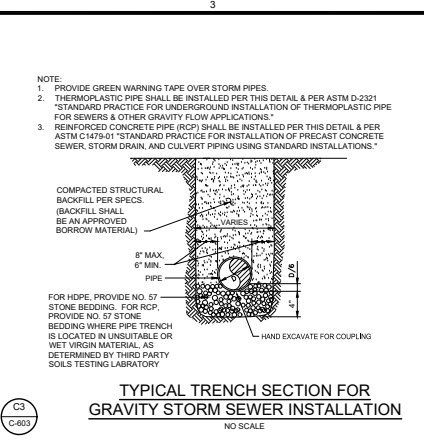
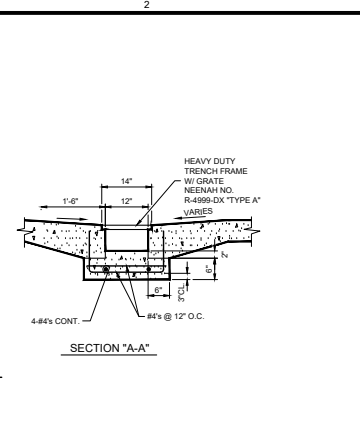
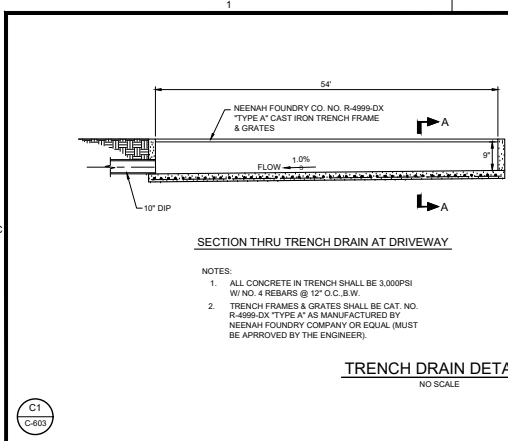
PROJECT LOCATION: 2849 GORDON HWY., AUGUSTA, GA 30909


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 JOHNSON LASCHNER & ASSOCIATES, P.C.
 AUGUSTA, GA
 LICENSE NO. 10000
 EXPIRES 12/31/2024

NO.	DATE	REVISION	BY	DATE	DESCRIPTION
1	03/25/20	ISSUED FOR PERMIT	DRWN		
2	04/01/20	REV. FOR PERMIT	CHK		
3	05/26/20	REV. FOR PERMIT	CHK		
4	10/18/17	ISSUED FOR PERMIT	CHK		

PROJECT NO: 3042 1504
 DRAWN BY: DRWN
 CHECKED BY: CHK
 DATE: 10/18/17
 SHEET TITLE: **SITE DETAILS - SHT. 2 OF 7**

SCALE: 1" = 20'
 DRAWING NO: **C-602**
 REV: 4







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CLIENT: AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901

PROJECT NAME: **FIRE STATION #3**

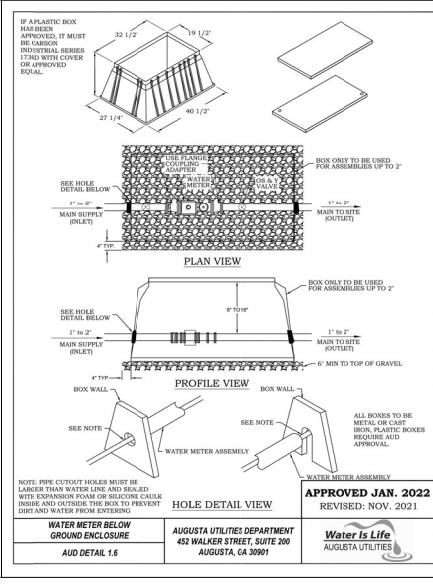
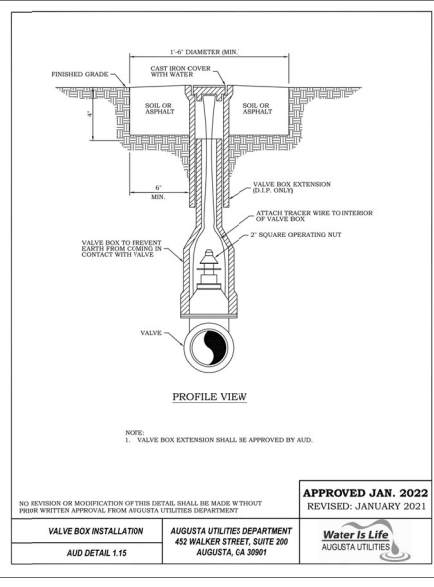
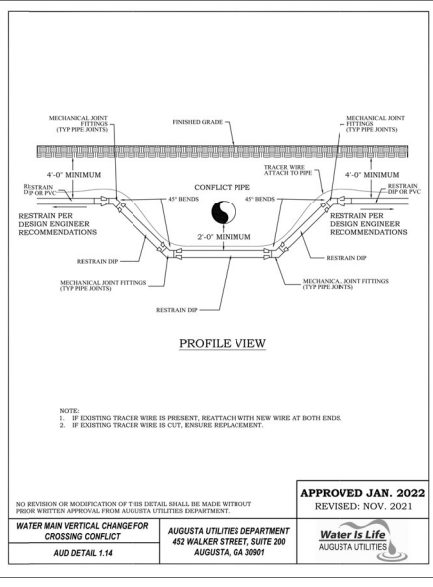
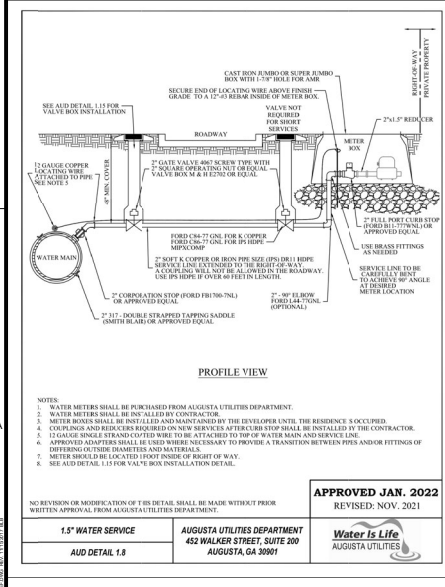
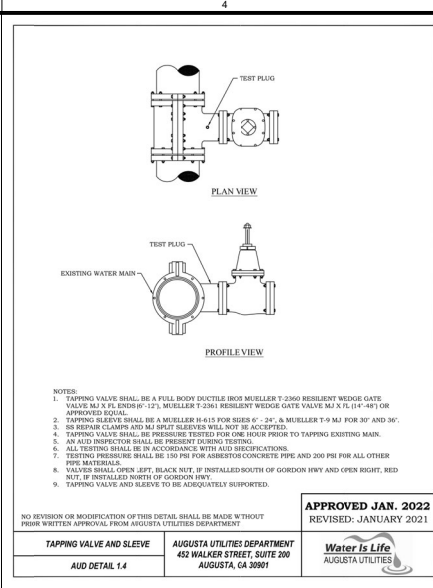
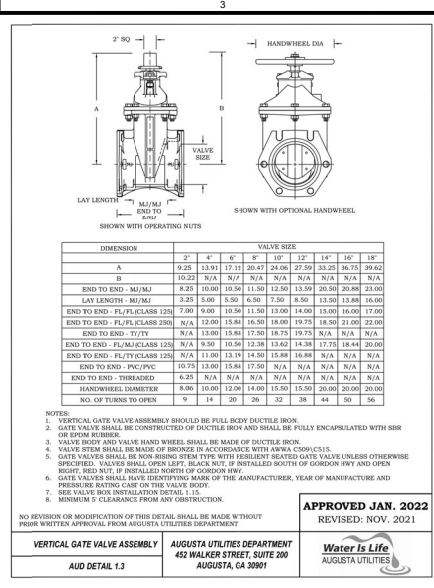
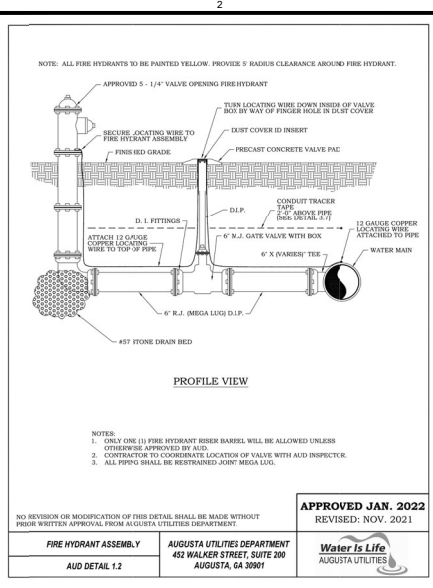
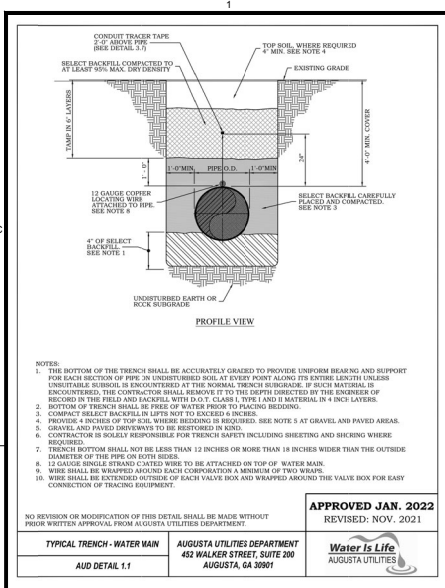
PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909

NO.	DATE	BY	DESCRIPTION
1	10/18/17	DRW	ISSUED FOR PERMIT
2	10/18/17	CHK	ISSUED FOR PERMIT
3	10/18/17	DRW	ISSUED FOR PERMIT
4	10/18/17	CHK	ISSUED FOR PERMIT
5	10/18/17	DRW	ISSUED FOR PERMIT
6	10/18/17	CHK	ISSUED FOR PERMIT
7	10/18/17	DRW	ISSUED FOR PERMIT
8	10/18/17	CHK	ISSUED FOR PERMIT

PROJECT NO. 3042.1804
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17
SHEET TITLE: **SITE DETAILS - SHT. 3 OF 7**

SCALE: 1" = 20"
DRAWING NO. **C-603** REV. **4**



PROJECT NAME: AUGUSTA, GA 555 TELPAIN STREET, AUGUSTA, GA 30901

CLIENT: AUGUSTA, GA

PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909

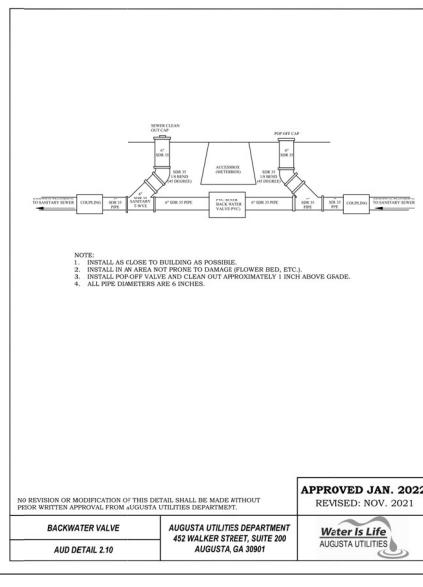
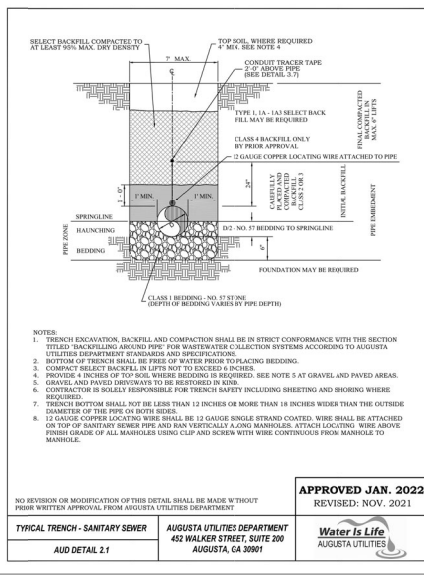
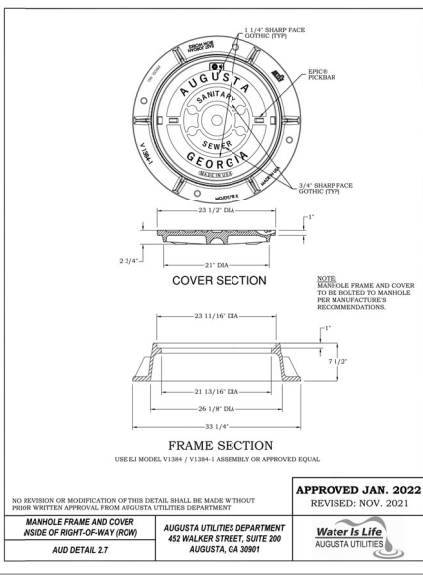
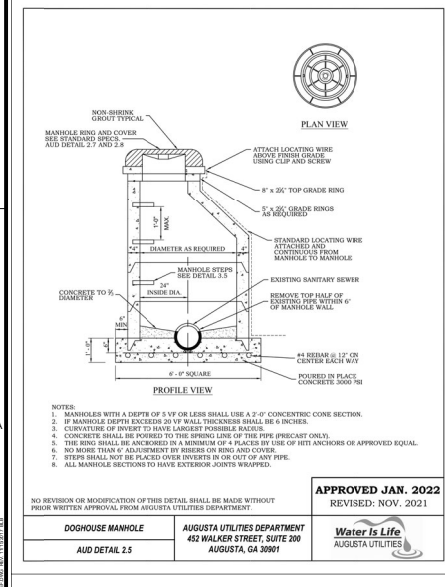
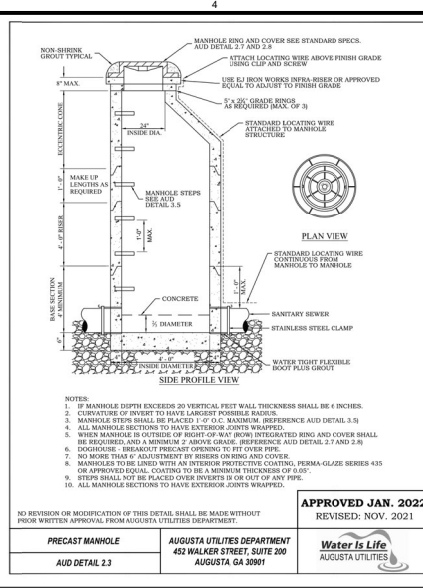
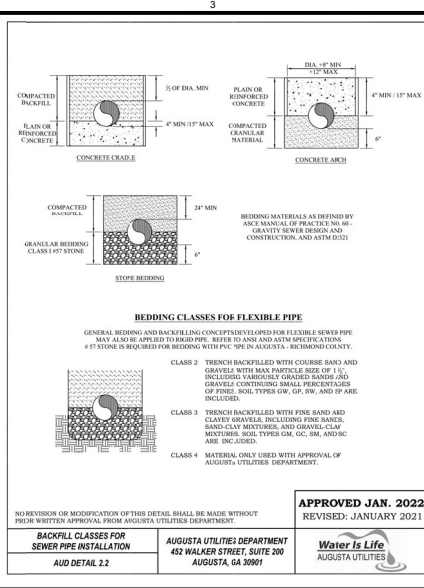
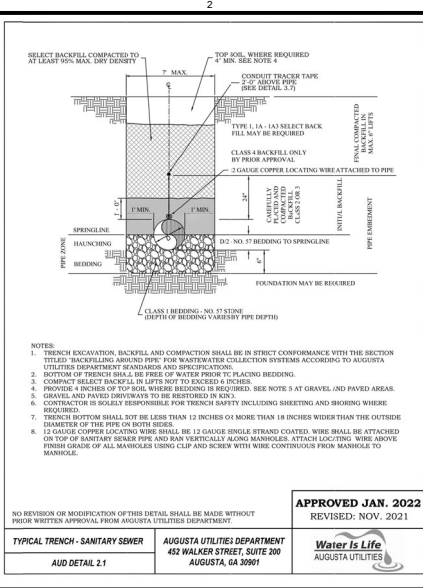
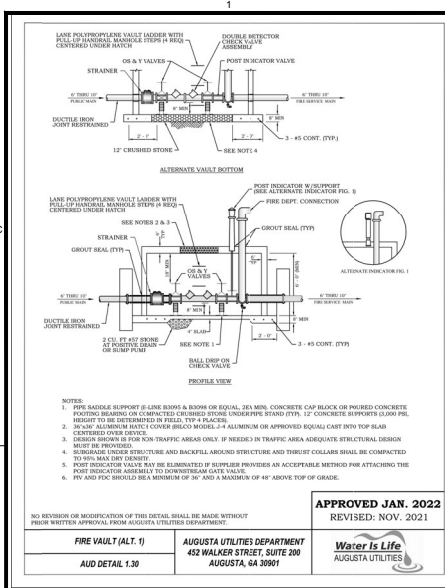
FIRE STATION #3



NO.	DATE	BY	DESCRIPTION
1	03/20/20	RESUBMITTAL #1 TO AIC	
2	05/01/20	REV. ISSUED FOR IMPROVEMENT	
3	05/20/20	REV. ISSUED FOR IMPROVEMENT	
4	12/21/20	REV. ISSUED FOR AID	
5	01/21/21	REV. ISSUED FOR AID	

PROJECT NO.: 3042 1804
 DRAWN BY: DRWN
 CHECKED BY: CHK
 DATE: 10/18/17
 SHEET TITLE: SITE DETAILS - SHT. 4 OF 7

SCALE: 1" = 20"
 DRAWING NO.: C-604
 REV.: 4



PROJECT NAME: AUGUSTA, GA
555 TELFAIR STREET, AUGUSTA, GA 30901

FIRE STATION #3

PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909



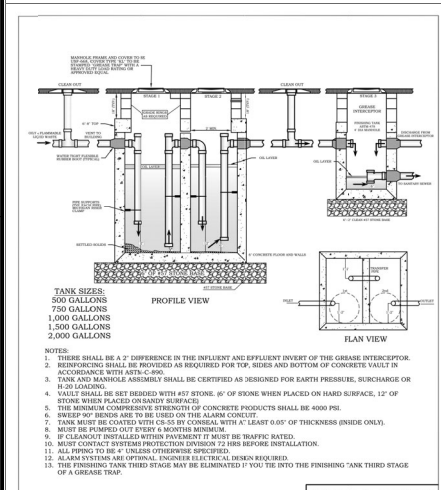
NO.	DATE	REVISION	ISSUED FOR	BY	DATE	DESCRIPTION
1	07/27/20	REVISED	PERMIT	DRWN	10/18/17	ISSUED FOR PERMIT
2	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
3	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
4	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
5	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
6	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
7	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
8	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
9	08/12/20	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT
10	12/21/17	REVISED	PERMIT	CHK	10/18/17	ISSUED FOR PERMIT

PROJECT NO. 3042 1504
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17
SHEET TITLE: **SITE DETAILS - SHT. 5 OF 7**

SCALE: 1" = 20'
DRAWING NO. **C-605**
REV. **4**



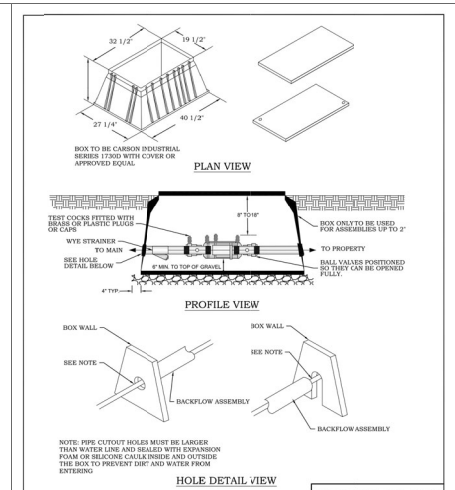
MANHOLE STEP	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 3.5		



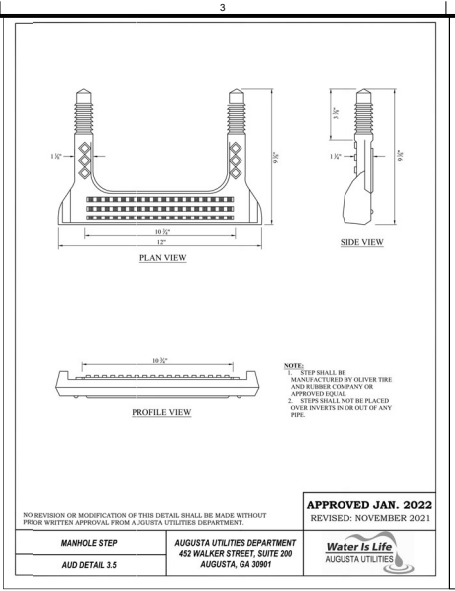
THREE STAGE OIL/GRIT INTERCEPTOR	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 3.3		



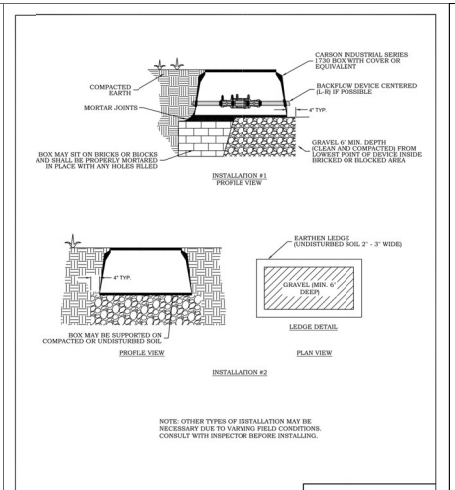
DOUBLE CHECK VALVE ASSEMBLY	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.17		



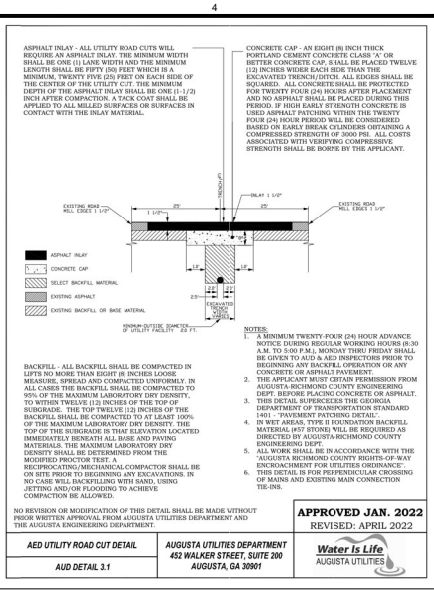
DOUBLE CHECK VALVE FOUNDATION VARIATIONS	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.20		



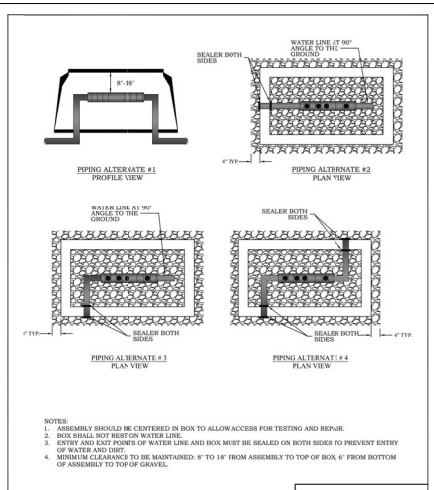
ASPHALT DELAY	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 3.1		



PIPING ALTERNATE #1	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.19		



PIPING ALTERNATE #2	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.19		



PIPING ALTERNATE #3	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.19		



PIPING ALTERNATE #4	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.19		

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CLIENT: AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901

PROJECT NAME: **FIRE STATION #3**

PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909

JOHNSON, LASCHORE & ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
STATE OF GEORGIA
NO. 121213
WBS
ISSUED FOR IMPROVEMENT
DATE: 08-20-2019

PROJECT NO.	3042 1804
DRAWN BY	DRWN
CHECKED BY	CHK
DATE	10/18/17
SHEET TITLE	SITE DETAILS - SHT.
	6 OF 7

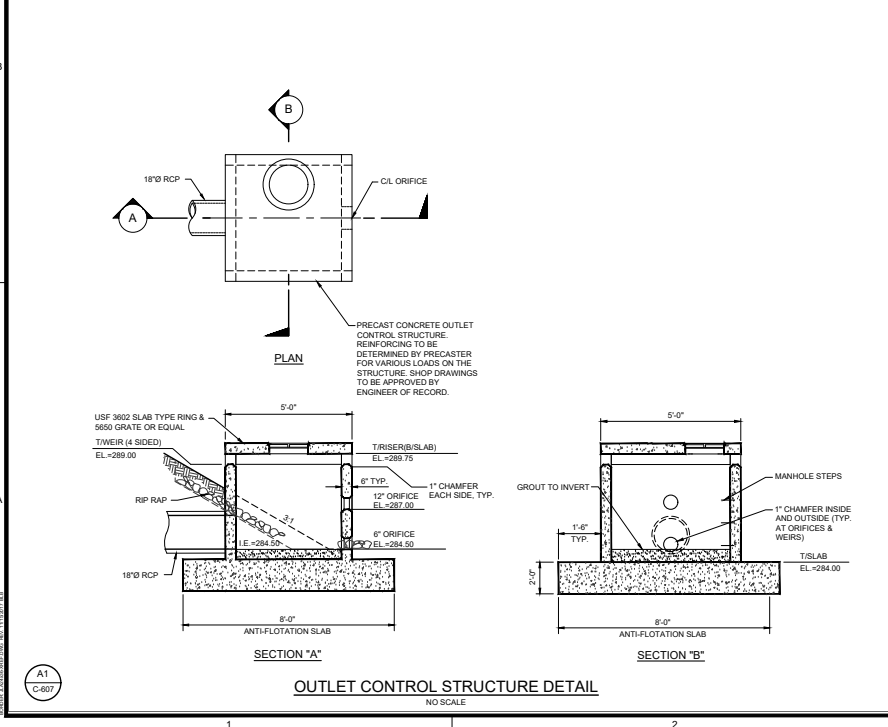
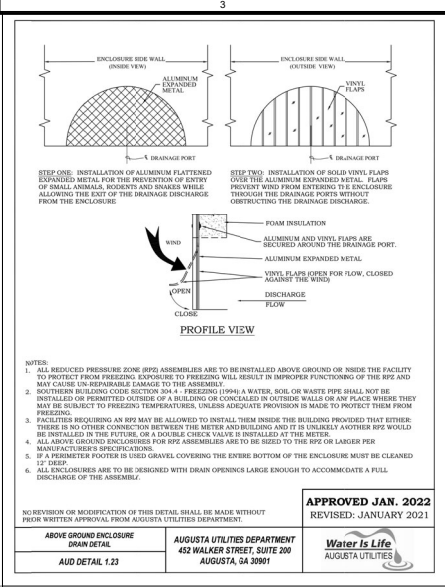
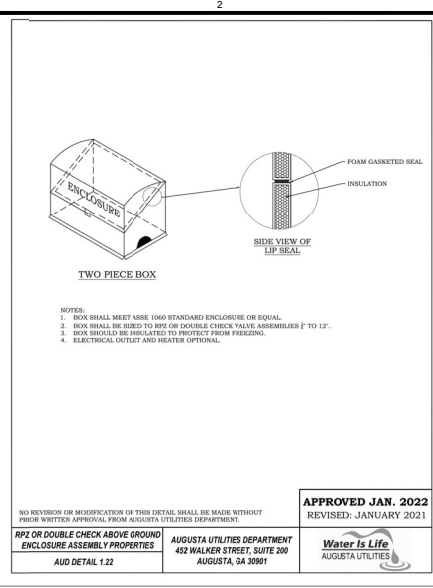
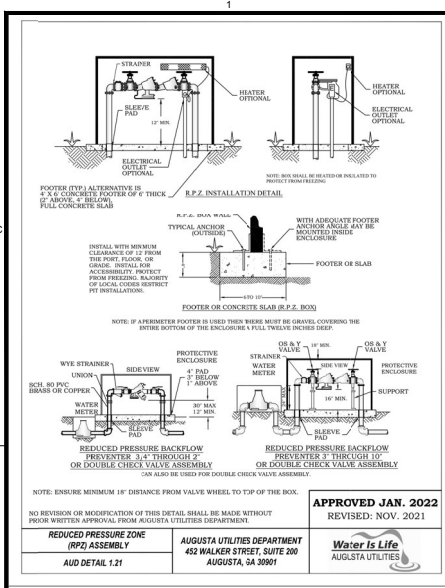
SCALE: 1" = 20"


DRAWING NO. **C-606**

REV. DATE BY DESCRIPTION

0	12/21/19	WBS	ISSUED FOR IMPROVEMENT
1	02/20/20	WBS	ISSUED FOR IMPROVEMENT
2	05/20/20	WBS	ISSUED FOR IMPROVEMENT
3	05/20/20	WBS	ISSUED FOR IMPROVEMENT
4	05/20/20	WBS	ISSUED FOR IMPROVEMENT

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.





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CLIENT: AUGUSTA, GA
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PROJECT NAME: **FIRE STATION #3**

PROJECT LOCATION: 2681 GORDON HWY., AUGUSTA, GA 30909

NO.	DATE	REV.	DESCRIPTION
1	03/25/20	WIB	ISSUED FOR PERMIT
2	05/12/20	WIB	ISSUED FOR PERMIT
3	05/26/20	WIB	ISSUED FOR PERMIT
0	12/21/19	WIB	ISSUED FOR BID

PROJECT NO.: 3042.1804
DRAWN BY: DRWN
CHECKED BY: CHK
DATE: 10/18/17

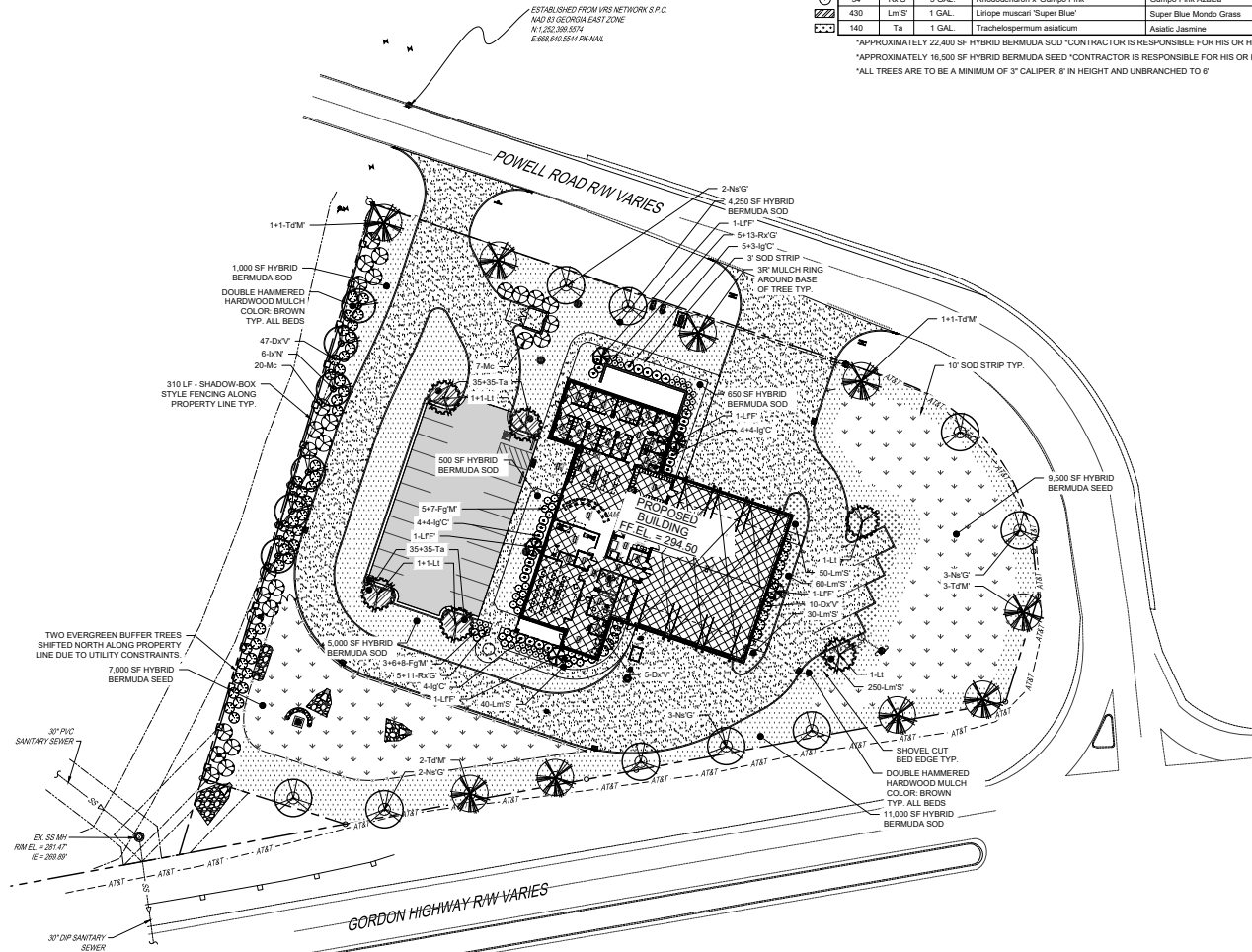
SHEET TITLE: **SITE DETAILS - SHT. 7 OF 7**

SCALE: 1" = 20'

DRAWING NO.: **C-607** REV.: **4**

PLANT SCHEDULE								
COUNT	SYMB	SIZE	BOTANICAL NAME	COMMON NAME	HEIGHT	SPACING	TREE PTS.	TOTAL
5	LTP*	3" CAL	Lagerstroemia faurei 'Fantasy'	Fantasy Crepe Myrtle	10'-12'	AS SHOWN	300 SF	1,500 SF
6	LI	3" CAL	Liriodendron tulipifera	Tulip Poplar	10'-12'	AS SHOWN	1400 SF	8,400 SF
9	NvG*	3" CAL	Nyssa sylvatica 'Green Gables'	Green Gables Black Gum	10'-12'	AS SHOWN	1400 SF	12,600 SF
9	TdM*	3" CAL	Taxodium distichum 'Shawnee Brave'	Shawnee Brave Bald Cypress	10'-12'	AS SHOWN	1400 SF	12,600 SF
6	lxN*	7 GAL	Ilex x 'Nellie R. Stevens'	Nellie R. Stevens Holly Tree	FULL	AS SHOWN	750 SF	4,500 SF
27	Mc	7 GAL	Myrica cerifera	Southern Wax Myrtle	FULL	AS SHOWN	--	--
62	DxV*	3 GAL	Distylium x 'Vintage Jade'	Distylium x 'Vintage Jade'	FULL	AS SHOWN	--	--
29	FgM*	3 GAL	Fothergilla gardenii 'Mt. Airy'	Dwarf Fothergilla	FULL	AS SHOWN	--	--
28	lgC*	3 GAL	Ilex glabra 'Compacta'	Compact Inkberry	FULL	AS SHOWN	--	--
34	RxG*	3 GAL	Rhododendron x 'Gumpo Pink'	Gumpo Pink Azalea	FULL	AS SHOWN	--	--
430	LmS*	1 GAL	Liriope muscari 'Super Blue'	Super Blue Mondo Grass	FULL	24" O.C.	--	--
140	Ta	1 GAL	Trachelospermum asiaticum	Asiatic Jasmine	FULL	24" O.C.	--	--
							TOTAL	39,600 SF

*APPROXIMATELY 22,400 SF HYBRID BERMUDA SOD *CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN TAKE OFFS
 *APPROXIMATELY 16,500 SF HYBRID BERMUDA SEED *CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN TAKE OFFS
 *ALL TREES ARE TO BE A MINIMUM OF 3" CALIPER, 6" IN HEIGHT AND UNBRANCHED TO 6'



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NO.	DATE	BY	DESCRIPTION
1	03/29/17	JNR	REVISIONAL SET TO AISC
2	04/26/17	JNR	REVISIONAL SET TO AISC
3	05/02/17	JNR	ISSUED FOR BID/PERMIT
4	10/18/17	EDH	

PROJECT NO: 3042.1604
 DRAWN BY: JNR
 CHECKED BY: EDH
 DATE: 10/18/17

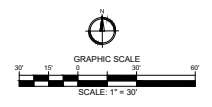
LANDSCAPE PLAN

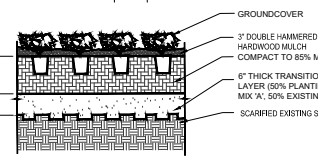
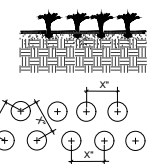
SCALE: 1" = 30'
 DRAWING NO: **L-101**
 SHEET NO: **2**

UTILITY WARNING:
 The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.



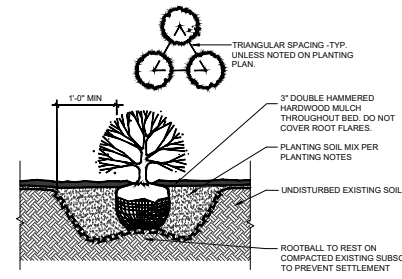
A1 LANDSCAPE PLAN
 L-101





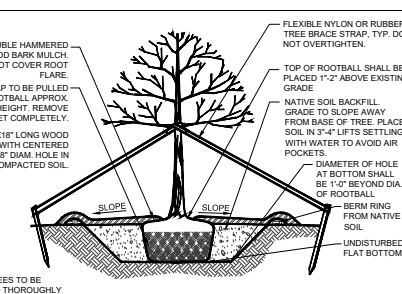
- NOTES:
1. SEE PLANT SCHEDULE FOR SPACING REQUIREMENTS.
2. REMOVE CONTAINER GROWN PLANTS FROM THEIR CONTAINER AND CUT ANY CIRCLING ROOTS.

GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



- TYPICAL BED LAYOUT:
1. LAY OUT PERIMETER PLANTING SPACES AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING. ADJUST AS PER LA-3 INSTRUCTION.
NOTES:
1. VERIFY FINISH GRADE ELEVATION. PLANT TOP OF ROOTBALL AT FINISH GRADE.
2. REMOVE BURFLAP FROM TOP OF BALL. REMOVE CONTAINER PLANTS FROM CONTAINERS AND CUT ANY CIRCLING ROOTS.

SHRUB PLANTING DETAIL
NOT TO SCALE



- NOTE: TREE TO BE WATERED THOROUGHLY AFTER PLANTING.
NOTES:
1. MIN. ROOT MASS TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK".
2. DO NOT ALLOW ROOT BALL TO DRY OUT DURING INSTALLATION PROCESS.
3. ALL STRIPS, STAKES AND ASSOCIATED MATERIALS SHALL BE REMOVED BY CONTRACTOR WITHIN ONE WEEK OF THE END OF THE 90 DAY MAINTENANCE PERIOD.
4. NOTE COMPASS ORIENTATION OF TREE PRIOR TO DIGGING AND MATCH PRIOR ORIENTATION AT INSTALLATION.

TYP. TREE PLANTING DETAIL
NOT TO SCALE

AUGUSTA TREE NOTES

- ILLUSTRATED TREE ORDINANCE SECTION 6.5**
1. CONTRACTOR MUST CONTACT THE AUGUSTA PLANNING DEPARTMENT TO SET UP A PRE-CONSTRUCTION MEETING PRIOR TO ANY TREE DISTURBANCE.
2. ALL TREE PROTECTION DEVICES MUST BE INSTALLED PRIOR TO INSPECTION BY THE CODE INSPECTION OFFICER AND PRIOR TO ANY TREE DISTURBANCE ACTIVITIES.
3. REMOVAL OR DAMAGE OF TREES IN THE CONSERVATION AREA WILL BE SUBJECT TO THE PENALTIES ESTABLISHED IN THE PENALTIES SECTION OF THIS ORDINANCE.
4. THESE PLANS SHALL BE REVIEWED BY THE CODE INSPECTION OFFICER FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THIS SECTION AND FOR TREE AND VEGETATION VIABILITY. THE PLANS WILL EITHER BE APPROVED OR RETURNED FOR REVISIONS. REASONS FOR RETURN SHALL BE NOTED ON THE PROPOSED PLAN.
5. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO INSPECTION OF CODE INSPECTION OFFICER AND PRIOR TO TREE DISTURBANCE.
6. THE CODE INSPECTION OFFICER WILL CONDUCT FOLLOW-UP SITE INSPECTIONS FOR ENFORCEMENT OF THE TREE PROTECTION REQUIREMENTS.
TREE ORDINANCE SECTION 8.4.13(D-2)
7. NO LIGHTING CAN BE WITHIN 2' OF A REQUIRED TREE OR WITHIN A REQUIRED LANDSCAPE ISLAND.
8. LIGHTING ON THE ELECTRICAL PLAN MUST BE CONSISTENT WITH LIGHTING DELINEATED ON THE TREE PROTECTION/TREE ESTABLISHMENT PLAN. IF CONFLICTS BETWEEN THE TWO PLANS ARISE, THE LIGHTING ON THE TREE PROTECTION/TREE ESTABLISHMENT PLAN SUPERSEDES LIGHTING ON THE ELECTRICAL PLAN.
9. NO SIGNS, WITH THE EXCEPTION OF SMALL DIRECTIONAL SIGNS (THESE SIGNS MAY NOT EXCEED 180" IN HEIGHT NOR MORE THAN 4 (4 SQ. FT.) IN AREA) MAY BE LOCATED WITHIN 20' OF A RETIRED TREE OR WITHIN REQUIRED LANDSCAPE ISLANDS.
10. NO BICYCLE RACKS, FIRE HYDRANTS, UTILITY BOXES, TRANSFORMERS OR OTHER SITE APPURTENANCES MAY BE LOCATED IN REQUIRED LANDSCAPE ISLANDS.
TREE ORDINANCE SECTION 8.4.13(D-3)
11. A PERMANENT WATER SOURCE MUST BE WITHIN 100' OF ALL REQUIRED TREES.
TREE ORDINANCE SECTION 8.4.13(D-12)
12. NO NEW UTILITIES (UNDERGROUND OR OVERHEAD) MAY BE LOCATED DIRECTLY ABOVE OR BELOW EXISTING OR PROPOSED TREE LOCATIONS. PROPOSED UTILITIES MUST BE ROUTED AWAY FROM ALL REQUIRED TREES ON THIS SITE.
TREE ORDINANCE SECTION 8.4.13(D)
13. ALL REQUIRED TREES ARE RECOMMENDED TO BE GROWN WITHIN ONE CLIMATIC ZONE OF AUGUSTA, GA.

14. TREES PLANTED FOR CANOPY COVER CREDIT SHALL MEET QUALITY AND SIZE STANDARDS AS DESCRIBED IN THE ANSI Z 60.1 AMERICAN STANDARD FOR NURSERY STOCK DATED 1990 AND PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. AS OFFICIALLY REVISED AND AMENDED FROM TIME TO TIME. ALL TREES SHALL BE PER IO LIST.
15. ALL TREES SELECTED FOR PLANTING SHOULD BE OF URBAN TOLERANT SPECIES AND SUITABLE FOR THE SITE CONDITIONS OF PLANTING LOCATION, INCLUDING GROWING SPACE LIMITS, SOIL MOISTURE, SOIL VOLUME, AND CLASSIFIED AS WATER WISE PLANT ONCE ESTABLISHED. ALL TREES SHALL BE PER IO LIST.
16. ALL REQUIRED TREES SHALL BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. TREES SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, FREE FROM DISFIGURING KNOTS, FREE FROM SUN SCALD INJURIES, FROST CRACKS AND/OR ABRASIONS OF THE BARK, AND BE FREE FROM PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF WEESTATION. ALL TREES SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACE. TREES SHALL NOT BE LOOSE IN THE CONTAINER OR ROOT BALL. IT IS RECOMMENDED THAT DUG TREES SHALL HAVE BEEN ROOT PRUNED AT LEAST ONCE.
17. ALL REQUIRED TREES SHALL HAVE STRAIGHT, SINGLES CENTRAL LEADERS. TREES THAT HAVE THE MAIN TRUNK FORMING A "Y" SHAPE ARE NOT ACCEPTABLE. TREES THAT ARE NOT FULLY BRANCHED WILL NOT BE ACCEPTED. TREES SHALL HAVE NO BARK DAMAGE AND SHALL NOT BE LEANING OR HAVE SIGNIFICANT SWEEP, CROOK, OR BEND. TREES SHALL HAVE A MINIMUM 3" CALIPER AND SHALL HAVE NO BRANCH MORE THAN HALF THE DIAMETER OF THE MAIN LEADER AND SHALL A STRAIGHT UNBRANCHED TRUNK TO 6'. TREES SPECIFIED AS 'MULTI-STEMMED' SHALL HAVE A MINIMUM OF 3 AND A MAXIMUM OF 5 SEPARATE CANES A MINIMUM OF 1" CALIPER EACH COMING FROM THE ROOT BALL AND PRUNED INTO TREE FORM WITH NO BRANCHES ON THE LOWER HALF OF THE TREE. MULTIPLE PLANTS SHALL NOT BE USED AS A 'MULTI-STEMMED' PLANT.
18. ALL REQUIRED TREES SHALL BE SET IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT, AND SHALL BE SET UPRIGHT PLUMB AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO OTHER TREES. EACH TREE SHALL BE SET 1-2" ABOVE THE FINISH GRADE AND BACKFILL SHALL BE BROUGHT EVEN WITH THE TOP OF THE ROOT BALL. NO FILL SHALL BE PERMITTED ATOP THE ROOT BALL.
19. ALL BURFLAP, ROPES, STRAPS AND WIRES SHALL BE REMOVED FROM THE ROOT BALL. IF IT IS NOT POSSIBLE TO REMOVE THE BURFLAP AND WIRE FROM THE BOTTOM OF THE ROOT BALL, THE BURFLAP AND WIRE SHALL BE CUT AWAY FROM THE SIDES AND REMOVED FROM THE HOLE. AFTER REQUIRED TREES ARE SET, THE BACKFILL SHALL BE MULCHED AROUND THE BASE OF THE ROOT BALL AND ALL VOIDS SHALL BE FILLED.
20. ALL REQUIRED TREES SHALL HAVE THEIR PLANTING PITS MULCHED WITH APPROVED MULCHING MATERIAL IMMEDIATELY AFTER PLANTING. THE MULCHED AREAS SHALL BE THOROUGHLY WATERED. NOTE: MULCH SHALL BE PLACED A MAXIMUM THICKNESS OF 3", NO MULCH WITHIN 6" OF TRUNK OF TREE.
21. IF STAKING AND SUPPORTS HAVE BEEN INSTALLED ON THE REQUIRED TREE(S), ALL STAKING AND SUPPORTS SHALL BE REMOVED AFTER ONE GROWING SEASON.
22. AS A GENERAL RULE, THE FOLLOWING GUIDELINES FOR TREE DIVERSITY WITHIN THE TREE PLANTING SITE AND POPULATION SHOULD BE ADHERED TO: 1) PLANT NO MORE THAN 10% OF ANY SPECIES; NO MORE THAN 20% OF ANY GENUS; AND NO MORE THAN 30% OF ANY FAMILY.

MINIMUM CANOPY REQUIREMENT

ALL LAND UNDERGOING DEVELOPMENT SHALL PROVIDE FOR THIRTY PERCENT (30%) MINIMUM TREE CANOPY COVERAGE. TREE CANOPY COVERAGE IS THE SUM TOTAL OF PRESERVED TREES AND REPLACEMENT TREES AT THEIR ANTICIPATED CANOPY COVERAGE TEN (10) YEARS FROM THE TIME THAT THE SITE IS DEVELOPED.

TOTAL DISTURBED AREA: 2.29 ACRES (99,752 SF)
REQUIRED MINIMUM CANOPY: 99,752 x 0.3 = 29,925 SF (69 ACRES)

TOTAL PRESERVED TREE CANOPY: 0 SF (0 ACRES)
ADDITIONAL CANOPY REQUIRED: 29,925 - 0 = 29,925 SF (69 ACRES)

1 LARGE TREE=	1400 SF	24 LARGE TREES PROVIDED=	33,600 SF
1 MEDIUM TREE=	750 SF	6 MEDIUM TREES PROVIDED=	4,500 SF
1 SMALL TREE=	300 SF	5 SMALL TREES PROVIDED=	1,500 SF
		TOTAL=	39,600 SF

PLANTING NOTES:

- THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
- ALL PLANT MATERIAL SHALL BE OF THE SAME QUALITY ESTABLISHED BY THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING IS COMPLETE AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS' ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETIC OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- PRIOR TO PLANTING, THE LOCATION OF TREES SHALL BE STAKED AND ALL PLANT MATERIAL SHALL BE INSPECTED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL. NO PLANT MATERIAL WILL BE ACCEPTED IF IT IS DAMAGED, DISEASED OR INADEQUATE IN SIZE AS SPECIFIED ON PLANS. SUBSTITUTIONS DUE TO AVAILABILITY MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- AT PLANTING TIME, ALL PLANTS SHALL BE THINNED BY REMOVING A BALANCED ONE THIRD OF THE VEGETATIVE MATERIAL. PRUNE FOR OPTIMUM APPEARANCE AND DESIGN INTENT BY ELIMINATING TALL SHOTS, DEAD WOOD AND SUCKERS.
- ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE INSTALLATION SPECIFICATIONS.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE FERTILIZER, PRE-EMERGENT HERBICIDE, LIME, TOPSOIL AND PLANTING MIXTURE AS PER THE INSTALLATION SPECIFICATIONS.
- BEDLINES SHALL HAVE A 3" DEEP SHOVEL CUT TRENCH EDGE WHERE MULCH MEETS GRASS, CONCRETE WALKS OR CURBS UNLESS OTHERWISE SPECIFIED. BEDLINES SHALL BE SMOOTH AND CONTINUOUS AND BE WITHIN A REASONABLE LOCATION AND BEHIND AS ILLUSTRATED ON PLANS.
- SHRUB PLANTING AREAS W/ 4" TOP SOIL. USE TOPSOIL STOCKPILED DURING GRADING OPERATIONS IF SUITABLE. ALL PLANTING AREAS SHOULD HAVE POSITIVE DRAINAGE AND NOT ENCOURAGE SATURATED ROOT SYSTEMS.
- PLACE A MINIMUM 1" OF MULCH OVER ALL PLANTING BEDS. TUCK MULCH UNDER PLANTS AND INTO BEDLINE TRENCHES.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CLEAN UP OF ALL CONTAINERS, PALLETS, DEBRIS, ETC. RESULTING FROM HISHER WORK.

IRRIGATION SPECIFICATIONS:

- CONTRACTOR SHALL DESIGN AND INSTALL AN IRRIGATION SYSTEM FOR 100% COVERAGE OF ALL NEW TREES, SHRUBS AND GRASS WITHIN THE IRRIGATION LIMITS. A SHOP DRAWING OF THE PROPOSED SYSTEM LAYOUT AND PROPOSED EQUIPMENT SCHEDULE MUST BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL IRRIGATION EQUIPMENT SHALL BE MANUFACTURED BY RAINBIRD INC. OR APPROVED EQUAL.
- CONTRACTOR SHALL FIELD VERIFY EXISTING WATER PRESSURE AND AVAILABLE VOLUME FOR MINIMUM MANUFACTURER SPECIFIED WORKING PRESSURE BEFORE INSTALLING IRRIGATION SYSTEM. CONTRACTOR SHALL ADVISE OWNER OF ANY LIMITATIONS OF EXISTING WATER PRESSURE.
- CONTRACTOR SHALL CONSULT WITH OWNER AS TO THE LOCATION AND PLACEMENT OF THE CONTROLLER.
- CONTRACTOR WILL INSTALL HEADS AND NOZZLES THAT WILL LIMIT THE AMOUNT OF WATER THROWN ON IMPERVIOUS SURFACES AND STILL MAINTAIN 100% COVERAGE OF PLANTED AREAS WITHIN THE IRRIGATION LIMITS. WATER OVERSPRAY ONTO IMPERVIOUS SURFACES MUST BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. IRRIGATION WATER MUST BE DIRECTED AWAY FROM BUILDINGS & OTHER STRUCTURES.
- CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE IRRIGATION INSTALLATION BEGINS.
- NO IRRIGATION WATER SHALL BE THROWN ON BELOW GRADE MASONRY OR FUNNY PIPE UNLESS FLEXIBLE PIPE CAN BE USED FOR SUPPLY OR FEEDER LINES. NO STATIONARY RISERS CAN BE USED.
- ALL PLASTIC PIPE FROM SIZES 4" AND ABOVE SHALL BE CLASS 200, SDR 21, UNPLASTICIZED RIGID PVC PIPE WITH INTEGRAL BELL AND RUBBER RING GASKET UNLESS OTHERWISE SPECIFIED. PIPE FROM SIZES 1/2" TO 3" SHALL BE CLASS 150. 1/2" PIPE SHALL BE CLASS 200. SOLVENT WELD PVC PIPE. ALL PIPE SHALL BE SUPPLIED IN 20' STANDARD LENGTHS AND SHALL BE MANUFACTURED BY CERTAINTED CORP., CRESTLINE, DURA, OR EQUAL. ALL PIPE THAT IS EXPOSED OR NOT BELOW GRADE SHALL BE SCHEDULE 80 PIPE. ALL IN-GROUND WIRE CONNECTIONS MUST BE MADE WITH 3M-DIE WIRE CONNECTIONS OR APPROVED EQUAL.
- CONTROLLER SHALL BE BY RAIN BIRD OR APPROVED EQUAL. CONTROLLER SHALL INCLUDE RAIN SENSOR. CONTROLLER SHALL BE WEATHER TIGHT CONSTRUCTION.
- ALL CONTROL VALVES MUST BE BRASS OR SCHD. 80 PIPE WITH A SCHD. 80 ISOLATION VALVE AT EACH CONTROL VALVE.
- VALVES IN BOXES MUST BE EASILY ACCESSIBLE AND INSTALLED WITH 2" DRAINAGE VALVE IN BOTTOM.
- ALL VALVE BOXES SHALL BE SET 1" ABOVE FINISHED GRADE.

BUFFER REQUIREMENTS

- BUFFER STRIP TREES**
1 TREE/45 L.F. OF TOTAL LOT CONNECTION
310 LF. - REQUIRES 7 LARGE/MEDIUM EVERGREEN TREES
7 TREES PROVIDED (SPHED ALONG LOT CONNECTION DUE TO SANITARY SEWER CONSTRAINTS)
310 LF. - SHADDOCK STYLE FENCE PROVIDED

TREE ORDINANCE REQUIREMENTS

- LANDSCAPE STRIP TREES**
1 TREE/45 L.F. OF TOTAL LOT FRONTAGE (GORDON HWY.)
425 LF. - REQUIRES 9 LARGE TREES
9 LARGE TREES PROVIDED
1 TREE/45 L.F. OF TOTAL LOT FRONTAGE (POWELL RD.)
409 LF. - REQUIRES 9 LARGE TREES
9 LARGE TREES PROVIDED
- PARKING LOT TREES**
1 TREE/3000 S.F. OF TOTAL PARKING LOT SURFACE AREA
(NO PARKING SPACE IS MORE THAN 65' FROM THE TRUNK OF ANY PROPOSED TREE)
10,000 S.F. - REQUIRES 3 LARGE OR MEDIUM TREES
-- 4 LARGE OR MEDIUM TREES PROVIDED ON SITE

PLANT SCHEDULE

COUNT	SYMB.	SIZE	BOTANICAL NAME	COMMON NAME	HEIGHT	SPACING	TREE PTS.	TOTAL
5	LYF'	3" GAL.	Lagerstroemia faurei 'Fantasy'	Fantasy Crepe Myrtle	10'-12"	AS SHOWN	300 SF	1,500 SF
6	LU	3" GAL.	Liriodendron tulipifera	Tulip Poplar	10'-12"	AS SHOWN	1400 SF	8,400 SF
9	NU'G	3" GAL.	Nyssa sylvatica 'Green Gables'	Green Gables Black Gum	10'-12"	AS SHOWN	1400 SF	12,600 SF
9	TdM'	3" GAL.	Taxodium distichum 'Shawnee Brave'	Shawnee Brave Bald Cypress	10'-12"	AS SHOWN	1400 SF	12,600 SF
6	IX'N'	7 GAL.	Ilex x 'Nellie R. Stevens'	Nellie R. Stevens Holly Tree	FULL	AS SHOWN	750 SF	4,500 SF
27	MC'	7 GAL.	Myrica cerifera	Southern Wax Myrtle	FULL	AS SHOWN	--	--
62	DvV'	3 GAL.	Distylium x 'Vintage Jade'	Distylium x 'Vintage Jade'	FULL	AS SHOWN	--	--
29	FgM'	3 GAL.	Fothergilla gardenii 'M. Asy'	Dwarf Fothergilla	FULL	AS SHOWN	--	--
28	IG'C'	3 GAL.	Ilex glabra 'Compacta'	Compact Inkberry	FULL	AS SHOWN	--	--
34	Rv'G'	3 GAL.	Rhododendron x 'Gumpo Pink'	Gumpo Pink Azalea	FULL	AS SHOWN	--	--
430	Lm'S'	1 GAL.	Liriope muscari 'Super Blue'	Super Blue Mondo Grass	FULL	24" O.C.	--	--
140	Ts	1 GAL.	Taxiopsis americana	American Jasmine	FULL	24" O.C.	--	--
							TOTAL	39,600 SF

*APPROXIMATELY 22,400 SF HYBRID BERBERIS SEED *CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN TAKE OFFS
*APPROXIMATELY 16,500 SF HYBRID BERBERIS SEED *CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN TAKE OFFS
*ALL TREES ARE TO BE A MINIMUM OF 3" CALIPER, 8" IN HEIGHT AND UNBRANCHED TO 6'

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AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901
FIRE STATION #3

PROJECT NAME
PROJECT LOCATION
PROJECT NO.
DATE

NO.	DATE	BY	DESCRIPTION
1	03/25/20	JNR	ISSUED FOR PERMIT
2	04/06/20	JNR	ISSUED FOR PERMIT
3	05/12/20	JNR	ISSUED FOR PERMIT

PROJECT NO: 3042.1604
DRAWN BY: JNR
CHECKED BY: EDH
DATE: 10/18/17

LANDSCAPE NOTES & DETAILS

SCALE: AS NOTED
DRAWING NO: **L-201**
REVISIONS: 2