ADDENDUM NO. ONE

to

BID DOCUMENTS, CONTRACT DOCUMENTS, CONSTRUCTION SPECIFICATIONS AND DRAWINGS

for

500,000 GALLON ELEVATED WATER TANK

for the

CITY OF SWAINSBORO, GEORGIA

PROJECT NO. 192284

REVISED BID DATE: Bids Received Until Thursday, October 27, 2022 @ 2:00p.m.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY INSERTING ITS NUMBER IN THE PROPOSAL. FAILURE TO DO SO MAY SUBJECT BONA FIDE BIDDERS TO DISQUALIFICATION. THIS ADDENDUM FORMS A PART OF THE PROJECT DOCUMENTS; IT MODIFIES THEM AS FOLLOWS:

October 3, 2022



BID DOCUMENTS

Refer to Advertisement, Page AB-1.

Revise the first paragraph to say:

"Sealed proposals will be received by City of Swainsboro, Georgia at City Hall, P.O. Box 600 or 101 West Main Street, (Shipping Address Only – No Mail Received at Street Address) Swainsboro, Georgia 30401 until 2:00 p.m. local time, Thursday, October 27, 2022..."

CONSTRUCTION SPECIFICATIONS

Refer to Section 8.02, Page 8-1.

Revise the following Section 8.02, Size and Capacity:

8.02 "Size and Capacity: The tank shall be of all welded construction with a capacity and height from the top of concrete foundations to the overflow line shall be as shown below:

<u>Tank No.</u>	<u>Capacity</u>	Height of Overflow	Head Range (Maximum)	
One	500,000	124' – 6"	30' – 0	

CONSTRUCTION DRAWINGS

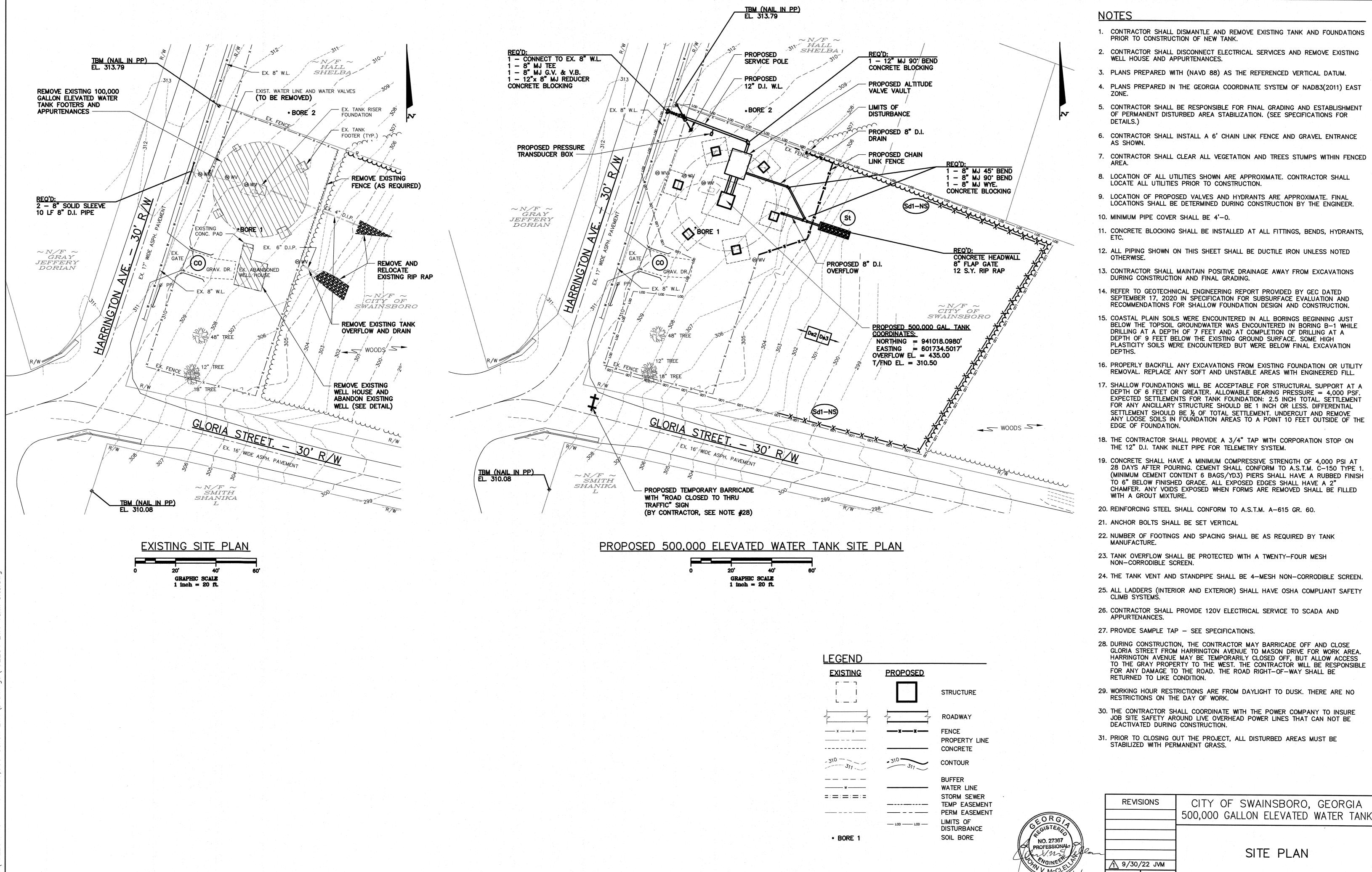
Refer to Sheet 2 of 6.

Replace with the attached.

Refer to Sheet 4 of 6.

Replace with the attached.

END OF ADDENDUM NO. ONE



- 1. CONTRACTOR SHALL DISMANTLE AND REMOVE EXISTING TANK AND FOUNDATIONS
- 2. CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES AND REMOVE EXISTING
- 4. PLANS PREPARED IN THE GEORGIA COORDINATE SYSTEM OF NAD83(2011) EAST
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL GRADING AND ESTABLISHMENT OF PERMANENT DISTURBED AREA STABILIZATION. (SEE SPECIFICATIONS FOR
- 6. CONTRACTOR SHALL INSTALL A 6' CHAIN LINK FENCE AND GRAVEL ENTRANCE
- 7. CONTRACTOR SHALL CLEAR ALL VEGETATION AND TREES STUMPS WITHIN FENCED
- 8. LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL
- 9. LOCATION OF PROPOSED VALVES AND HYDRANTS ARE APPROXIMATE. FINAL
- 11. CONCRETE BLOCKING SHALL BE INSTALLED AT ALL FITTINGS, BENDS, HYDRANTS.
- 12. ALL PIPING SHOWN ON THIS SHEET SHALL BE DUCTILE IRON UNLESS NOTED
- 13. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM EXCAVATIONS
- 14. REFER TO GEOTECHNICAL ENGINEERING REPORT PROVIDED BY GEC DATED
- 15. COASTAL PLAIN SOILS WERE ENCOUNTERED IN ALL BORINGS BEGINNING JUST BELOW THE TOPSOIL GROUNDWATER WAS ENCOUNTERED IN BORING B-1 WHILE DRILLING AT A DEPTH OF 7 FEET AND AT COMPLETION OF DRILLING AT A DEPTH OF 9 FEET BELOW THE EXISTING GROUND SURFACE. SOME HIGH PLASTICITY SOILS WERE ENCOUNTERED BUT WERE BELOW FINAL EXCAVATION
- 16. PROPERLY BACKFILL ANY EXCAVATIONS FROM EXISTING FOUNDATION OR UTILITY REMOVAL. REPLACE ANY SOFT AND UNSTABLE AREAS WITH ENGINEERED FILL.
- DEPTH OF 6 FEET OR GREATER. ALLOWABLE BEARING PRESSURE = 4,000 PSF. EXPECTED SETTLEMENTS FOR TANK FOUNDATION: 2.5 INCH TOTAL. SETTLEMENT FOR ANY ANCILLARY STRUCTURE SHOULD BE 1 INCH OR LESS, DIFFERENTIAL SETTLEMENT SHOULD BE 1/2 OF TOTAL SETTLEMENT. UNDERCUT AND REMOVE ANY LOOSE SOILS IN FOUNDATION AREAS TO A POINT 10 FEET OUTSIDE OF THE
- THE 12" D.I. TANK INLET PIPE FOR TELEMETRY SYSTEM.
- 19. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AFTER POURING. CEMENT SHALL CONFORM TO A.S.T.M. C-150 TYPE 1. (MINIMUM CEMENT CONTENT 6 BAGS/YD3) PIERS SHALL HAVE A RUBBED FINISH TO 6" BELOW FINISHED GRADE. ALL EXPOSED EDGES SHALL HAVE A 2 CHAMFER. ANY VOIDS EXPOSED WHEN FORMS ARE REMOVED SHALL BE FILLED
- 20. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615 GR. 60.
- 22. NUMBER OF FOOTINGS AND SPACING SHALL BE AS REQUIRED BY TANK
- 23. TANK OVERFLOW SHALL BE PROTECTED WITH A TWENTY-FOUR MESH
- 24. THE TANK VENT AND STANDPIPE SHALL BE 4-MESH NON-CORRODIBLE SCREEN.
- 25. ALL LADDERS (INTERIOR AND EXTERIOR) SHALL HAVE OSHA COMPLIANT SAFETY
- 28. DURING CONSTRUCTION, THE CONTRACTOR MAY BARRICADE OFF AND CLOSE GLORIA STREET FROM HARRINGTON AVENUE TO MASON DRIVE FOR WORK AREA. HARRINGTON AVENUE MAY BE TEMPORARILY CLOSED OFF, BUT ALLOW ACCESS TO THE GRAY PROPERTY TO THE WEST. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE ROAD. THE ROAD RIGHT-OF-WAY SHALL BE
- 29. WORKING HOUR RESTRICTIONS ARE FROM DAYLIGHT TO DUSK. THERE ARE NO
- 30. THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO INSURE JOB SITE SAFETY AROUND LIVE OVERHEAD POWER LINES THAT CAN NOT BE
- 31. PRIOR TO CLOSING OUT THE PROJECT, ALL DISTURBED AREAS MUST BE

DRAWN CHECKED GKA JVM SCALE: AS SHOWN

EROSION, SEDIMENT, AND POLLUTION CONTROL LEVEL CERTIFIED PLAN PREPARER: JOHN V. McCLELLAN LICENSE NUMBER: 43164 EXPIRATION DATE: 5/31/2025

TA TURNIPSEED ATLANTA **AUGUSTA VENGINEERS** ST. SIMONS ISLAND

SHEET OF 6

DATE: AUGUST 2022

THE TOTAL ACREAGE FOR THIS PROJECT IS APPROXIMATELY 1.18 ACRES. TOTAL DISTURBED ACRES

PROJECT. GIVE THE LATITUDE AND LONGITUDE IN DECIMAL DEGREES. THIS HAS A SINGLE LOCATION.

7. INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS. INITIAL DATE AND REVISION DATES, IF APPROPRIATE, ARE SHOWN ON ALL SHEETS IN THE TITLE BLOCK

DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY. THE PROPOSED WATER SYSTEM IMPROVEMENTS FOR THE CITY OF SWAINSBORO IS LOCATED AT THE INTERSECTION OF HARRINGTON AVE. AND GLORIA STREET. THE PROJECT INVOLVES THE DEMOLITION OF AN EXISTING ELEVATED WATER TANK AND THE CONSTRUCTION OF A NEW 500,000 GALLON ELEVATED WATER TANK.

PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS. INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY. SEE PROJECT MAP/ VICINITY MAP SHEET 1.

10. IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, MARSHLANDS, ETC. WHICH MAY BE AFFECTED. THE INITIAL RECEIVING WATERS FOR THIS PROJECT IS CROOKED CREEK. ADJACENT AREAS INCLUDE WOODED, RESIDENTIAL, COMMERCIAL.

11. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PART IV PAGE 21 OF THE PERMIT. SEE LICENSED PROFESSIONAL'S CERTIFICATIONS THIS SHEET, (NOTE 1).

12. * DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PART IV PAGE 19 OF THE PERMIT. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF A STATE WATER.

13. * DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR REPRESENTATIVE SAMPLING AS STATED ON PART IV.D.6.c(3) PAGE 37 OF PERMIT AS APPLICABLE. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

LICENSED PROFESSIONAL CERTIFICATION

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

10/3/2022

John V. m. flellan P.F. JOHN McCLELLAN, P.E. GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 27367 GSWCC LEVEL II CERTIFICATION NO. 43164

EXPIRES 5/31/22 14. * CLEARLY NOTE THE STATEMENT THAT "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS. PERIMETER CONTROL BMPs AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION IN ACCORDANCE WITH PART IV.A.5 PAGE 26 OF THE PERMIT." NOT APPLICABLE, BECAUSE THIS

15. CLEARLY NOTE THE STATEMENT THAT "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN <u>THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED</u> VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.'

"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS".

PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

(I). EXCEPT AS PROVIDED IN PART IV.(III). BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES;

(II). NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND FXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY. AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM

CROSSINGS FOR SEWER LINES;

LAND DISTURBING ACTIVITIES."

(III). EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I). AND (IV)., NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. BETWEEN THE TIME FINAL STABILIZATION OF THE SITE IS ACHIEVED AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.

16. PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED. NO BUFFER VARIANCE IS REQUIRED FOR THIS PROJECT.

17. * CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL." NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

18. * CLEARLY NOTE STATEMENT THAT "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT." NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

19. <u>CLEARLY NOTE STATEMENT THAT "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO</u>

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

20. <u>CLEARLY NOTE STATEMENT THE "EROSION CONTROL MEASURES WILL BE MAINTAINTED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE</u> EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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

21. CLEARLY NOTE THE STATEMENT "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."

22. * ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM <u>SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY</u> PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.

NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

23. * IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 21 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

* BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR F THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

25. PROVIDE BMPS FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

SOIL CLEANUP AND CONTROL PRACTICES

• LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL

 MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

 SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE

REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS • FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE

NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-8802.

• FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

• FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS.

• FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY OF GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL

26. * DESCRIPTION OF THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

27. * DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

28. * DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

29. DESCRIPTION AND CHART OR TIMELINE OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR THE MAJOR PORTIONS OF THE SITE (I.E. INITIAL PERIMETER AND SEDIMENT STORAGE BMPs, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, TEMPORARY AND FINAL STABILIZATION). SEE CONSTRUCTION SCHEDULE (THIS SHEET). VEGETATION AND MULCH MUST BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETE. THE CONTRACTOR WILL BE LIMITED TO AN AREA OF EXCAVATION COMMENSURATE WITH THE CONTRACTOR'S CAPABILITY AND PROGRESS IN KEEPING THE FINISH GRADING, MULCHING SEEDING AND OTHER SUCH POLLUTION CONTROL MEASURES CURRENT IN ACCORDANCE WITH THE SCHEDULE. EXCAVATION SHALL NOT EXCEED 200 FEET IN ADVANCE OF ANY LINIER INFRASTRUCTURE INSTALLATION.

* PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

31. * PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

* PROVIDE COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

* DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

* APPENDIX B RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE, NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

35. * DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED ALSO PROVIDE A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPERSENTATIVE SAMPLING AS APPLICABLE. NOT

APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE

WILL INTERFERE WITH VEGETATION ESTABLISHMENT.

36. * A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING: (1) INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS, (2) INTERMEDIATE GRADING AND DRAINAGE BMPS, AND (3) FINAL BMPS. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING THE INITIAL PERMIMETER CONTROL BMPS, INTERMEDIATE GRADING AND DRAINAGE BMPS, AND FINAL BMPS ARE THE SAME, THE PLAN MY COMBINE ALL OF THE BMPS INTO A SINGLE PHASE. NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER

37. GRAPHIC SCALE AND NORTH ARROW: SHOWN ON ALL SHEETS WHERE APPLICABLE.

EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE CHECKLIST: THERE ARE PROPOSED CONTOURS ASSOCIATED WITH THIS PROJECT, ANY DISTURBANCE WILL BE RETURNED TO LIKE EXISTING CONDITIONS. EXISTING CONTOURS ARE SHOWN ON SHEET

39. * USE OF ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). NOT APPLICABLE, BECAUSE THIS PROJECT IS LESS THAN 1 ACRE AND IS NOT WITHIN 200 FT OF STATE WATER.

USE OF ALTERNATIVE BMPS FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA 2016 EDITION. NO ALTERNATIVE BMPS HAVE BEEN SELECTED FOR THIS PROJECT.

DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT. STREAM BUFFERS ARE NOT REQUIRED FOR THIS PROJECT.

42. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET <u>of the project site.</u> Field observations indicate that this project is **not** located in WETLANDS. THIS PROJECT WILL NOT OCCUR WITHIN 200 FT. OF STATE WATERS.

43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE SEE DRAINAGE BASIN MAP, (SEE SHEET 5).

44. DELINEATE ON-SITE DRAINAGE AND OFF-SITE WATERSHEDS USING USGS 1": 2000' TOPOGRAPHICAL SHEETS. SEE SHEET 5.

45. AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: THE PRE AND POST CONSTRUCTION RUNOFF COEFFICIENT IS APPROXIMATELY 0.20 FOR CONSTRUCTION WITHIN CITY PROPERTY. DURING CONSTRUCTION, THE DISTURBED AREA WILL BE GRADED TO PROPOSED AND ORIGINAL CONTOURS AND RE-VEGETATED ACCORDING TO THE VEGETATIVE COVER PLAN. THE RE-VEGETATION ENSURES THAT THE RUNOFF COEFFICIENT OR PEAK DISCHARGE WILL NOT BE ADVERSELY AFFECTED BY THE CONSTRUCTION ACTIVITIES.

STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION. IDENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS. NOT APPLICABLE TO THIS PROJECT.

SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION. SOILS INFORMATION IS SHOWN ON THE EXISTING SITE PLAN OR INTERMEDIATE PHASE PLANS. FOR THIS PROJECT SEE SHEET 5.

LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION. SEE PLAN SHEET 2 FOR LIMITS OF

DISTURBANCE

49. PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE <u>IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION</u> <u>OF THE SITE HAS BEEN ACHIEVED. A WRITTEN JUSTIFICATION TO USE EQUIVALENT CONTROLS WHEN </u> SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS O WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN, WORKSHEETS FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMPS AND ALL CALCULATIONS USED BY <u>HE DESIGN PROFESSIONAL TO OBTAIN THE REQUIRED SEDIMENT STORAGE WHEN USING EQUIVALENT</u> CONTROLS. WHEN DISCHARGING FROM SEDIMENT BASINS AND IMPOUNDMENTS, PERMITEES ARE REQUIRED TO UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE, UNLESS INFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASIBLE, A WRITTEN JUSTIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN.

SEDIMENT STORAGE RATIONALE: THE PERCENT OF RUNOFF CONTRIBUTED BY THE LINEAR CONSTRUCTION IS MINIMAL RELATIVE TO THE CONTRIBUTION TO THE UPSTREAM WATERSHED. THE CONSTRUCTION OF SEDIMENT BASINS ARE NOT ECONOMICALLY FEASIBLE FOR THE SPRAWLING NATURE OF LINEAR CONSTRUCTION. SEDIMENT STORAGE WILL BE ACHIEVED BY CONSTRUCTING CHECK DAMS AND SILT FENCE, SENSITIVE AND NON-SENSITIVE (SEE CALCULATIONS THIS SHEET).

TOTAL SEDIMENTATION STORAGE CALCULATIONS

SEDIMENTATION STORAGE REQUIRED

TOTAL DISTURBED ACRES (0.52 ACRES) * 67 = 35 CY = 945 CF

SEDIMENTATION STORAGE AVAILABLE (SHOWN ON SHEET 2)

SEDIMENTATION STORAGE AVAILABLE BY USE OF SILT FENCE **245 L.F.** * 4 $FT^2 = 980$ CF

TOTAL SEDIMENT STORAGE AVAILABLE = 980 CF

LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND. SHOWN ON SHEET 2. SEE LEGEND ON SHEET 5.

PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. SEE SHEET 5.

PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES. INCLUDE SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA. SEE SHEET 5.

VEGETATIVE COVER

ALL BARE AREAS RESULTING FROM CONSTRUCTION OPERATIONS WILL BE ESTABLISHED TO VEGETATION AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETE AS FOLLOWS:

TEMPORARY/INTERMEDIATE GRASSING - (DS2, REQUIRED ON AREAS TO BE EXPOSED)

SEEDBED PREPARATION - FINISH GRADE ACCORDING TO PLANS. REMOVE LARGE ROCKS OR OTHER OBJECTS THAT

FERTILIZER - APPLY AGRICULTURAL LIME AT THE RATE OF 1 TO 2 TONS PER ACRE. SPREAD LIME AND FERTILIZER UNIFORMLY OVER SURFACE.

SEEDING - SEE CHART

PERMANENTLY EXPOSED AREAS (DS3, FINISH GRADES)

INITIAL TREATMENT

SEEDING PREPARATION - PREPARE SEEDBED TO DEPTH OF AT LEAST 4-INCHES ON ALL AREAS WHERE A GOOD SEEDBED IS NOT PRESENT. REMOVE ROCKS, ROOTS AND OTHER OBJECTS THAT WILL INTERFERE WITH VEGETATION ESTABLISHMENT OR MAINTENANCE OPERATIONS.

FERTILIZER - APPLY AGRICULTURE LIME AT MINIMUM RATE OF 1 TO 2 TONS PER ACRE. APPLY 1500 POUNDS 6-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER ACRE. SPREAD LIME AND FERTILIZER UNIFORMLY OVER ALI AREAS IMMEDIATELY BEFORE FINAL LAND PREPARATION AND MIX THOROUGHLY WITH THE SOIL. APPLY TOP DRESSING OF 50-100 POUNDS PER ACRE OF WITH THE SOIL. APPLY TOP DRESSING OF 50-100 POUNDS PER ACRE OF AMMONIUM NITRATE (OR EQUIVALENT) WHEN PLANTS ARE 2 TO 4-INCHES TALL

SEEDING - SEE CHART SEED WILL BE DISTRIBUTED UNIFORMLY OVER THE AREA AND COVERED TO A DEPTH OF ABOUT 1/4 INCH. IF AREA IS TO BE SPRIGGED, PLANT ONLY FRESHLY DUG SPRIGS AND KEEP THEM COOL AND MOIST UNTIL PLANTED. FIRM SEEDED OR SODDED ACRES WITH CULT PACKER OR ROLLER IMMEDIATELY FOLLOWING PLANTING.

MULCHING - ALL SEEDED AND UNSEEDED SLOPES LESS THAN 3% WILL BE MULCHED IMMEDIATELY AFTER SPREADING UNIFORMLY DRY STRAW OR HAY, FREE OF COMPETING WEEDS, AT THE RATE OF ABOUT 2.5 TONS PER ACRE OR TO COVER APPROXIMATELY 75 PERCENT OF THE GROUND SURFACE. WITH SLOPES GREATER THAN 3 PERCENT, ANCHOR MULCH WITH A PACKED OR DISK HARROW WITH BLADES SET STRAIGHT OR WITH EMULSIFIED ASPHALT (GRADE AE5 OR SS1) AT RATE OF 100 GALLONS EMULSION MIXED WITH 100 GALLONS WATER FOR EACH TON OF MULCH.

MULCHING REQUIREMENTS DS1				
MATERIAL	RATE	DEPTH		
STRAW OR HAY	2 1/2 TON/ACRE	6" to 10"		
WOOD WASTE CHIPS, SAWDUST, BARK	6 TO 9 TON/ACRE	2" to 3"		
CUTBACK ASPHALT	1200 Gal./Acre or 1/4 Gal./Sq. Yd.	****		
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS			
CUTBACK ASPHALT	SEE MANUFACTURER'S RECOMMENDATIONS			
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS			

VEGETATIVE MEASURES DUST CONTROL ON DISTURBED AREAS, Du

DEFINITION CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND

CONDITIONS THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS

A. TEMPORARY METHODS

MULCHES - SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION TAC-TACKIFIERS. RESINS SUCH AS CURASOL OR TERRTAK SHOULD BE USED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.

<u>VEGETATIVE COVER</u> SEE SPECIFICATION DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

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

<u>TILLAGE</u> — THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEING PLOWING ON WINDWARD SIDE OF SITE. CHHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

<u>IRRIGATION</u> — THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS - SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE SUED TO CONTROL AIR CURRENTS AND SOIL BLOWING, BARRIERS PLACED AT RIGHT ANGLES T PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND

CALCIUM CHLORIDE - APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT. B. PERMANENT METHODS

PERMANENT VEGETATION — SEE SPECIFICATION DS3 — DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. TOPSOILING - THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION TP - TOPSOILING.

<u>STONE</u> — COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr — CONSTRUCTION ROAD STABILIZATION.



REVISIONS CITY OF SWAINSBORO, GEORGIA 500,000 GALLON ELEVATED WATER TANK **EROSION SEDIMENTATION &** POLLUTION CONTROL PLAN CHECKLIST DRAWN CHECKED SCALE: AS SHOWN DATE: AUGUST 2022

EROSION, SEDIMENT, AND POLLUTION CONTROL LEVEL I CERTIFIED PLAN PREPARER: JOHN V. McCLELLAN LICENSE NUMBER: 43164 EXPIRATION DATE: 5/31/202

TATURNIPSEED ENGINEERS

ATLANTA **AUGUSTA** ST. SIMONS ISLAND SHEET OF 6