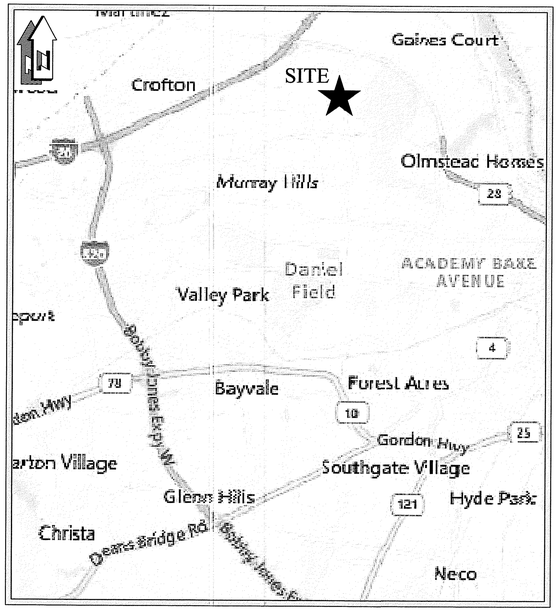


VICINITY MAP
N.T.S.

MAYOR

HARDIE DAVIS, JR., MAYOR

BOARD OF COMMISSIONERS

DISTRICT 1 JORDAN JOHNSON	DISTRICT 2 DENNIS WILLIAMS
DISTRICT 3 CATHERINE SMITH MCNIGHT	DISTRICT 4 SAMMIE SIAS
DISTRICT 5 BOBBY WILLIAMS	DISTRICT 6 BEN HASAN
DISTRICT 7 SEAN FRANTOM	DISTRICT 8 BRANDON GARRETT
DISTRICT 9 FRANCINE SCOTT	DISTRICT 10 JOHN CLARKE

AUGUSTA ENGINEERING DEPARTMENT
DR. HAMEED MALIK, Ph.D, P.E.
DIRECTOR ENGINEERING

CONSTRUCTION PLANS FOR

ANGC - 2021 Demolition & Stabilization Phase I

PREPARED FOR

ANI

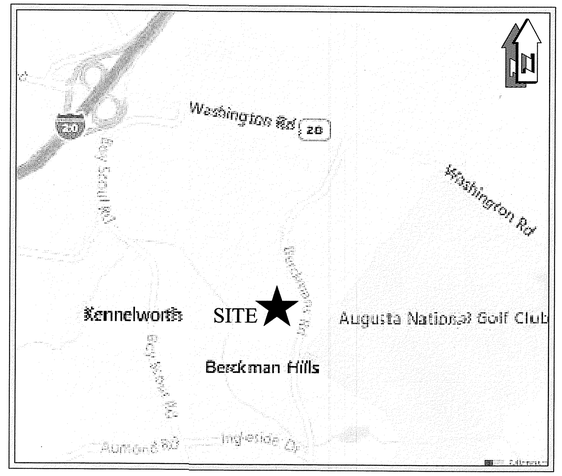
2604 WASHINGTON RD
AUGUSTA GA, 30904

Sheet Index	
Sheet Number	Sheet Title
C100	Cover
C200	Overall Erosion Control & Site Access Plan
C300	Erosion Control Notes
C301	Erosion Control Notes
C302	Erosion Control Details
C303	Erosion Control Details

PREPARED BY

CRANSTON

10-20-2021



LOCATION MAP
N.T.S.

PROJECT DATA:

1. ACREAGE OF PROPERTY: 6.80 ACRES
2. ACREAGE OF DEVELOPMENT: 6.80 ACRES
3. OWNER/DEVELOPER/PRIMARY PERMITEE:
   ANI
   2604 WASHINGTON ROAD
   AUGUSTA, GA 30904
   PHONE: 706-667-6301
   24 HOUR CONTACT:
   NAME: JEFF SMITH
   PHONE: 706-667-6301
   EMAIL: JQSMITH@AUGUSTANATIONAL.COM
4. TAX MAP & PARCEL NUMBERS: 018-0-180-00-0; 018-0-181-00-0; 018-0-182-00-0; 018-0-183-00-0; 018-0-184-00-0; 018-0-185-00-0; 018-0-186-00-0; 018-0-188-00-0; 018-0-189-00-0; 018-0-190-00-0; 018-0-191-00-0; 018-0-192-00-0; 018-0-193-00-0; 018-0-195-00-0; 018-0-196-00-0; 018-0-214-00-0; 018-0-216-00-0; 018-0-217-00-0; 018-0-218-00-0; 018-0-219-00-0; 018-0-220-00-0; 018-0-221-00-0
5. ZONING: R1
6. STORM WATER OUTFALL: EXISTING STORM SYSTEM
7. DRAINAGE AREA THIS PROJECT: 6.80 ACRES
8. IMPERVIOUS AREA:
   EXISTING: 1.83 ACRES
   PROPOSED: 0.00 ACRES
9. PERVIOUS AREA:
   EXISTING: 4.97 ACRES
   PROPOSED: 6.80 ACRES
10. RECEIVING STREAM: RAE'S CREEK
11. ULTIMATE STREAM: SAVANNAH RIVER
12. EXISTING LAND USE: RESIDENTIAL
13. PROPOSED LAND USE: GRAVEL & GRASS PARKING FOR MASTERS TOURNAMENT

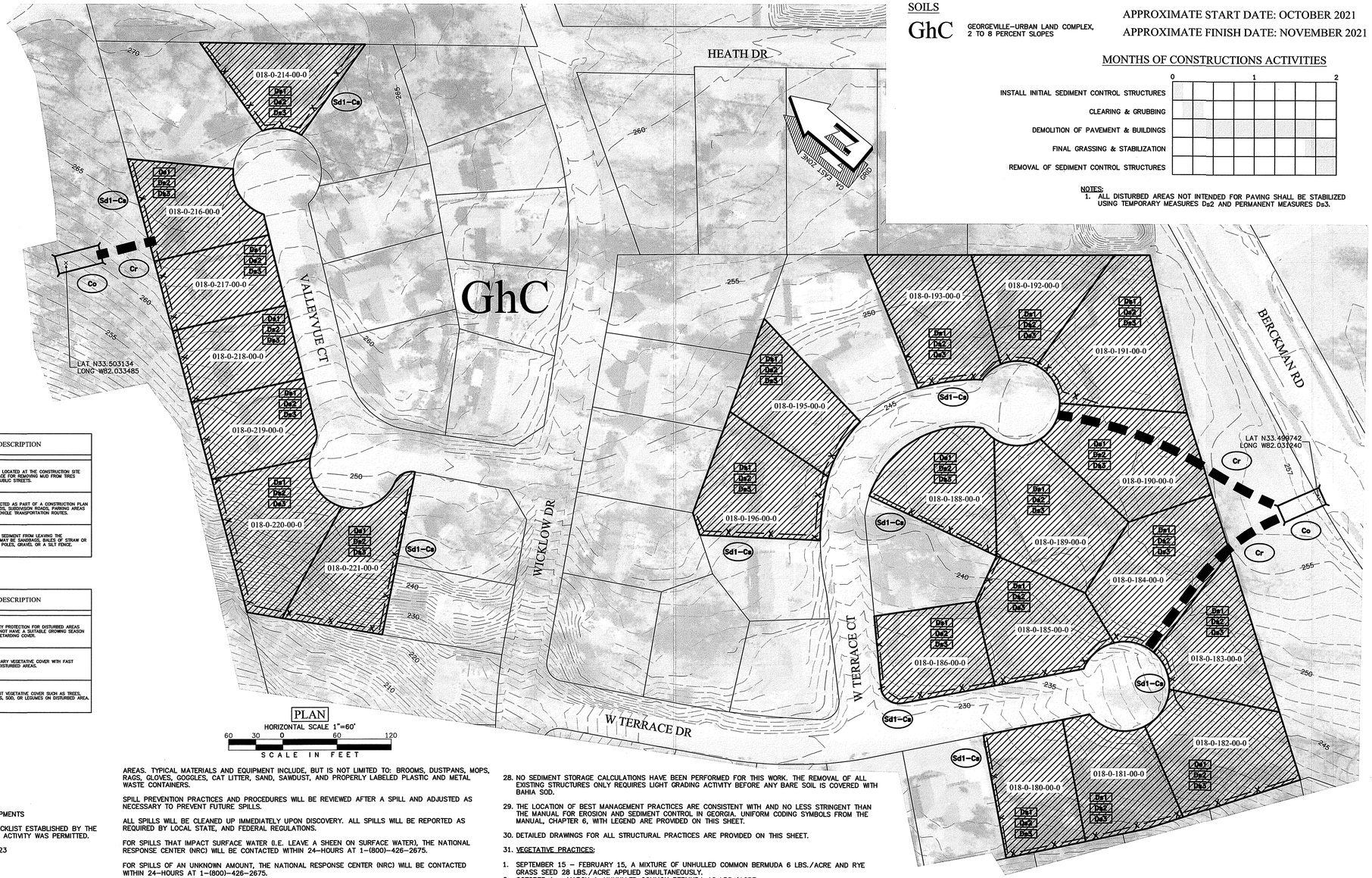
GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 00005948
Issued: 05/01/2017 Expires: 05/01/2023

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GEORGIA PROFESSIONAL NO. 35714 ENGINEER R. BANKS TATE
10/19/21

2021-0001
C100

G:\GVAA-ACTIVE JOBS\2021\2021-0001_ANGC MISC CONSULTS 2021\AA-DRAWINGS\CIVIL\2021-0001_ESPC.DWG 10/19/2021 3:40 PM



PLAN

HORIZONTAL SCALE 1"=60'

60 30 0 60 120

SCALE IN FEET

LEGEND

- DEMOLITION ACTIVITIES/ LIMITS OF DISTURBANCE
- CONSTRUCTION ACCESS
- —X— COMPOST FILTER SOCK

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co (LABEL)	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr (LABEL)	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.
Sd1	SEDIMENT BARRIER		TYPE (INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH ,LOGS AND POLES, GRAVEL OR A SILT FENCE.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREA.

SOILS

GhC GEORGEVILLE–URBAN LAND COMPLEX, 2 TO 8 PERCENT SLOPES

APPROXIMATE START DATE: OCTOBER 2021

APPROXIMATE FINISH DATE: NOVEMBER 2021

MONTHS OF CONSTRUCTIONS ACTIVITIES

	0				1			2
INSTALL INITIAL SEDIMENT CONTROL STRUCTURES								
CLEARING & GRUBBING								
DEMOLITION OF PAVEMENT & BUILDINGS								
FINAL GRASSING & STABILIZATION								
REMOVAL OF SEDIMENT CONTROL STRUCTURES								

NOTES:
1. ALL DISTURBED AREAS NOT INTENDED FOR PAVING SHALL BE STABILIZED USING TEMPORARY MEASURES Ds2 AND PERMANENT MEASURES Ds3.

GSWCC AND NPDES NOTES:

PROJECT NAME: ANI — 2021 DEMOLITION
ADDRESS: VALLYVUE CT, W. TERRACE DR, W. TERRACE CT.
CITY/COUNTY: AUGUSTA/RICHMOND COUNTY ZIP CODE 30904
DATE ON PLANS: 10-20-2021

☒ GAR 100001 STAND ALONE ☐ GAR 100002 INFRASTRUCTURE ☐ GAR 100003 COMMON DEVELOPMENTS

1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
2. LEVEL II CERTIFICATION: NAME: BANKS TATE NO#. 52948 EXP. DATE: 05-01-23
3. 24 HOUR CONTACT: JEFF SMITH 706-667-6301 EMAIL: JQSMITH@AUGUSTANATIONAL.COM
4. PRIMARY PERMITTEE: ANI 2604 WASHINGTON RD AUGUSTA, GA 30904 706-667-6301
5. TOTAL DISTURBED ACREAGE OF THIS PROJECT: 6.80 ACRES TOTAL PROJECT ACREAGE: 6.80 ACRES
6. CONSTRUCTION EXIT: LAT N33.503134 LONG W82.033485 LAT N33.503134 LONG W82.033485
7. THE INITIAL DATE ON PLANS IS OCTOBER 12, 2021. REVISIONS ARE TO BE RESUBMITTED TO THE LOCAL ISSUING AUTHORITY, THE ENTITY REQUESTING THE REVISIONS, THE DATE THE CHANGE WAS MADE, AND THE NATURE OF THE CHANGE WILL BE DENOTED IN THE DESIGNATED AREA ON THE PLAN SHEET.
8. NATURE OF CONSTRUCTION ACTIVITY: DEMOLITION & PERMANENT STABILIZATION.
9. VICINITY MAP IS PROVIDED ON THIS SHEET.
10. PROJECT RECEIVING WATERS: RECEIVING RAE'S CREEK ULTIMATE: SAVANNAH RIVER
11. **NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.**
12. THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROJECT. IF YES, REFER TO SHEET(S) N/A FOR BUFFER DESCRIPTIONS.
13. **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.**
14. **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.**
15. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14-DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
16. BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS: LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.

MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, 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 WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

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

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) WILL BE CONTACTED WITHIN 24-HOURS. GA. EPD (404)-656-4863 OR (800)-241-4113 AND THE NATIONAL RESPONSE CENTER AT (800)-424-8802

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

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL NEED A SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

17. SEE THIS SHEET FOR DETAILED TIMELINE OF MAJOR CONSTRUCTION ACTIVITIES.
18. GRAPHIC SCALE AND NORTH ARROW PROVIDED ON PLAN SHEET.
19. THE CONTOUR INTERVAL ON PLAN SHEET IS 1'.
20. ARE ALTERNATE BMPS TO BE USED ON THIS PROJECT: NO
21. THE 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 CAN BE FOUND ON PLAN SHEET(S) N/A.
22. THE DELINEATION OF ALL ON-SITE WETLANDS AND ALL STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE, IF APPLICABLE, CAN BE FOUND ON PLAN SHEET(S) N/A.
23. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE CAN BE FOUND ON THE SHEET: N/A
24. ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: PRE: 0.50 POST: 0.30
25. STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION: STORM DRAIN PIPE Q, V, L, W, D, AND SIZE PROVIDED ON SHEET: N/A
26. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION IS PROVIDED ON THIS SHEET.
27. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS PROVIDED ON THIS SHEET.
28. NO SEDIMENT STORAGE CALCULATIONS HAVE BEEN PERFORMED FOR THIS WORK. THE REMOVAL OF ALL EXISTING STRUCTURES ONLY REQUIRES LIGHT GRADING ACTIVITY BEFORE ANY BARE SOIL IS COVERED WITH BAHIA SOD.
29. THE LOCATION OF BEST MANAGEMENT PRACTICES ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND ARE PROVIDED ON THIS SHEET.
30. DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE PROVIDED ON THIS SHEET.
31. VEGETATIVE PRACTICES:
    1. SEPTEMBER 15 – FEBRUARY 15, A MIXTURE OF UNHULLED COMMON BERMUDA 6 LBS./ACRE AND RYE GRASS SEED 28 LBS./ACRE APPLIED SIMULTANEOUSLY.
    2. OCTOBER 1 – MARCH 1, UNHULLED COMMON BERMUDA 10 LBS./ACRE.
    3. APRIL 1 – JUNE 1, HULLED COMMON BERMUDA 10 LBS./ACRE.
    4. FERTILIZER GRADE WILL BE A COMMERCIAL 6-12-12 INCORPORATED INTO THE SOIL AT 1500 LBS./ACRE, ALSO 1500 LBS. DOLOMITIC LIME.
    5. NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 LBS. OF AVAILABLE NITROGEN /ACRE. APPLICATION BETWEEN JUNE THRU AUGUST.
    6. ALL SEEDED AREAS WILL BE MULCHED WITH STRAW OR HAY MULCH AT A RATE OF 2.5 TONS/ACRE.
    7. FOR ALL DATES NOT COVERED UNDER THE GRASSING SCHEDULE THE DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED USING POLYACRYLAMIDE.
    8. CONTRACTOR TO ENSURE THAT EXISTING ON SITE VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION IS PRESERVED AND THAT ALL DISTURBED PORTIONS OF THE SITE ARE STABILIZED.
    9. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
32. DEMOLITION OF THE EXISTING HOME SITES & PERMANENT STABILIZATION TAKES PLACE WITHIN A 7 DAY PERIOD FOR EACH LOT. THE PERMANENT STABILIZATION OF GRAVEL & GRASS WILL MATCH THE SURROUNDING PROPERTIES OWNED BY THE AUGUSTA NATIONAL WHICH IS UTILIZED FOR PARKING DURING THE MASTERS TOURNAMENT.
33. STAKED EROSION CONTROL SOCK WILL BE EMPLOYED FOR THIS WORK BECAUSE OF THE SHORT DURATION OF LAND DISTURBANCE.
34. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION IN ACCORDANCE WITH PART IV.A.5, PAGE 25 OF PERMIT.
35. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
36. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
37. NO CONCRETE WASHDOWN IS ASSOCIATED WITH THIS PROJECT, THEREFORE NO BMPs FOR CONCRETE WASHDOWN ARE PROVIDED. WASHOUT OF ANY CONCRETE DRUM ON THIS SITE IS PROHIBITED
38. DURING CONSTRUCTION, A LAYER OF GRAVEL WILL BE PLACED IN ALL DISTURBED AREAS PRIOR TO PERMANENT SOD INSTALLATION. ALL IMPERVIOUS AREAS INSIDE THE PROJECT LIMITS WILL BE REMOVED AND REPLACED WITH GRAVEL AND GRASS. THE PERMANENT GRAVEL/GRASS CONDITIONS ALLOW FOR INFILTRATION OF ALL STORMWATER ON THE SITE WHICH PROVIDES NATURAL FILTRATION AND REMOVAL OF ANY POLLUTANTS IN THE STORMWATER.
39. NO PRACTICES TO PROVIDE BUILDING MATERIALS WILL BE INSTALLED ON THIS SITE

GSWCC Georgia Soil and Water Conservation Commission

Robert Banks Tate
Level II Certified Design Professional

CERTIFICATION NUMBER 0000052948
ISSUED 05/01/2017 EXPIRES 05/01/2023

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

CRANSTON

GEORGIA PROFESSIONAL NO. 35714 ENGINEER R. BANKS TATE
10/19/21

REV #	DATE	DESCRIPTION

ANGC - 2021 Demolition & Stabilization Phase I

Overall Erosion Control & Site Access Plan

DRAWN BY:	MAB
CHECKED BY:	SMS
APPROVED BY:	RBT
DATE:	10-20-2021
SCALE:	1" = 60'
JOB No.	2021-0001
DRAWING No.	C200

C:\GV\AAA-ACTIVE JOBS\2021\2021-0001_ANGC MISC CONSULTS 2021\VA-DRAWINGS\CIVIL\2021-0001_ESPC.DWG 10/19/2021 3:40 PM

GSWCC AND NPDES NOTES:

PROJECT NAME: ANI – 2021 DEMOLITION
ADDRESS: VALLYVUE CT, W. TERRACE DR, W. TERRACE CT.
CITY/COUNTY: AUGUSTA/RICHMOND COUNTY ZIP CODE 30904
DATE ON PLANS: 10-20-2021

☒ GAR 100001 STAND ALONE ☐ GAR 100002 INFRASTRUCTURE ☐ GAR 100003 COMMON DEVELOPMENTS

1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
2. LEVEL II CERTIFICATION: NAME: BANKS TATE NO#. 52948 EXP. DATE: 05-01-23
3. LIMITS OF DISTURBANCE IS LESS THAN 50 ACRES.
4. 24 HOUR CONTACT: JEFF SMITH
706-667-6301
EMAIL: JQSMITH@AUGUSTANATIONAL.COM
5. PRIMARY PERMITTEE: ANI
2604 WASHINGTON RD
AUGUSTA, GA 30904
706-667-6301
6. TOTAL DISTURBED ACREAGE OF THIS PROJECT: 6.80 ACRES
TOTAL PROJECT ACREAGE: 6.8 ACRES
7. CONSTRUCTION EXIT: LAT N33.503134 LONG W82.033485
LAT N33.503134 LONG W82.033485
8. THE INITIAL DATE ON PLANS IS 10-20-21, REVISIONS ARE TO BE RESUBMITTED TO THE LOCAL ISSUING AUTHORITY, THE ENTITY REQUESTING THE REVISIONS, THE DATE THE CHANGE WAS MADE, AND THE NATURE OF THE CHANGE WILL BE DENOTED IN THE DESIGNATED AREA ON THE PLAN SHEET.
9. NATURE OF CONSTRUCTION ACTIVITY: GRAVEL & GRASS PARKING FOR MASTERS TOURNAMENT.
10. VICINITY MAP IS PROVIDED ON SHEET C100.
11. PROJECT RECEIVING WATERS:
RECEIVING RAE'S CREEK
ULTIMATE: SAVANNAH RIVER
12. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

LEVEL II CERTIFICATION: NAME: BANKS TATE NO#. 52948 EXP. DATE: 05-01-23

13. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AN 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 THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. 100001."

LEVEL II CERTIFICATION: NAME: BANKS TATE NO#. 52948 EXP. DATE: 05-01-23

14. **THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.**
15. **NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.**
16. THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROJECT. IF YES, REFER TO SHEET(S) N/A FOR BUFFER DESCRIPTIONS.
17. **AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**
18. **WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.**
19. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**
20. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
21. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14-DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
22. ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. THIS DOES NOT APPLY TO THIS PROJECT.
23. A TMDL IMPLEMENTATION PLAN FOR SEDIMENT IS NOT IMPLEMENTED.
24. BMPs FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. REFER TO NOTE 37 ON SHEET C200
25. BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:
LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.

MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, 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 WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24-HOURS AT 1-(800)-426-2675.

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

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) WILL BE CONTACTED WITHIN 24-HOURS. GA. EPD (404)-656-4863 OR (800)-241-4113 AND THE NATIONAL RESPONSE CENTER AT (800)-424-8802

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

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL NEED A SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.
26. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS, AND IMPERVIOUS SURFACES THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF. THESE MEASURES WILL ENSURE THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATER COURSE ARE MAINTAINED AND PROTECTED
27. REFER TO NOTE 39 ON SHEET C200 FOR BUILDING MATERIAL SPECIFICS.
28. DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

ADHERENCE TO ALL MEASURES SET FORTH IN NOTE 26 & NOTE 36 WILL REDUCE POLLUTANTS IN STORMWATER DISCHARGES.
29. SEE SHEET C200 FOR DETAILED TIMELINE OF MAJOR CONSTRUCTION ACTIVITIES.
30. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY PRIMARY PERMITTEE:

INSPECTIONS (NPDES GENERAL PERMIT NO. 100001, SEC. IV.D.4.)

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL, PROVIDED BY THE PRIMARY PERMITTEE, SHALL INSPECT:(a.) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (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 AND RECORD RAINFALL WITHIN THE DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IN 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.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (a) DISTURBED 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 APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL METHODS ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(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 HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(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 CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORTS SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.
31. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.d.)

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON- WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; (b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST; (c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED. *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 MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO.100001 , SEC. IV.E.)

THE APPLICABLE PERMITTEE'S 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 V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

(1). 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.
(2). 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 INITIATED; (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 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."
32. DETAILS ON COMPLETE REQUIREMENTS OF RETENTION OF RECORDS BY PRIMARY PERMITTEE:

RETENTION OF RECORDS (NPDES GENERAL PERMIT NO.100001 , SEC. IV.F.)

(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). A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; (b). A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; (c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; (d). A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; (e). A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT; (f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND, (g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(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 THE NPDES PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.
33. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING ANALYTICAL METHODS BY PRIMARY PERMITTEE:

SAMPLE TYPE (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.b.)

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLE TYPE (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.c.)

FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.
34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO.100001 , SEC. IV.D.6.a.(3).)

WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OF THE OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES).

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMPs) 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 THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. 100001.

THE SELECTED NTU VALUE OF 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 6.80 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA APPROXIMATELY 0.01 SQUARE MILES.
35. SAMPLING LOCATIONS, PERENNIAL STREAMS, INTERMITTENT STREAMS, AND OTHER BODIES OF WATER INTO WHICH STORM WATER IS DISCHARGED CAN BE FOUND ON SHEET C301.
36. FOR PHASED EROSION AND SEDIMENTATION CONTROL PLANS (I.E. INITIAL PHASE, INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA, CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND, REFER TO SHEET(S) C200 & C302.

DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

INITIAL PHASE
INSTALLATION OF PERIMETER CONTROL BMPs (SILT FENCE (Sd1-NS) AT THE LIMITS OF DISTURBANCE); CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); INSTALL INLET SEDIMENT TRAPS (Sd2-F, Sd2-P & Sd2-CFS)

INTERMEDIATE PHASE
MAINTAIN SILT FENCE TYPE-"C" (Sd1-NS) FOR PERIMETER CONTROL; MAINTAIN CONSTRUCTION EXITS (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; INSTALL STONE CHECK DAMS (Cd-S) IN DITCHES THAT ARE DISTURBED DURING CONSTRUCTION ACTIVITIES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2). MAINTAIN INLET SEDIMENT TRAPS (Sd2-F, Sd2-P & Sd2-CFS)

FINAL
MAINTAIN INLET SEDIMENT TRAPS (Sd2-F & Sd2-P) AND FILTER RING (Fr) AT EXISTING INLETS; MAINTAIN SILT FENCE TYPE-"C" (Sd1-C) FOR PERIMETER CONTROL; DISTURBED AREA STABILIZATION WITH SOD (Ds4). REMOVAL OF ALL BMP DEVICES ONCE THE SITE IS FULLY STABILIZED.
A DESCRIPTION OF APPROPRIATE EROSION CONTROL MEASURES TO BE IMPLEMENTED:

36.1. GENERAL IMPLEMENTATION:

1.2. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION.

1.4. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

1.5. THE NOTATION AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

1.6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:
(a). NO SURFACE WATER FLOWS FROM DISTURBED AREA TO BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.
(b). SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES.

1.7. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

1.8. IN ADDITION TO THE NOTE ABOVE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY THESE INSPECTIONS SHALL BE DOCUMENTED WITH COPIES SENT TO THE OWNER.

1.9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON SITE. SILT BARRIER TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR OWNER: CLIENT.

1.10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

1.11. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE PERMANENT VEGETATION IS ESTABLISHED.

1.12. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR CLEARING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

1.13. ALL DISTURBED AREAS SHALL BEST BE STABILIZED AS REQUIRED BY THESE PLANS BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

1.14. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

1.15. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

1.16. SILT FENCE SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 171 OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, CURRENT EDITION, AND/OR GEORGIA EPD "GREEN BOOK" AS AMENDED.

1.17. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

1.18. ALL SEDIMENT STORAGE DEVICES ARE TO BE CONSTRUCTED COMPLETELY AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

1.19. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKETS.

1.20. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

1.21. ALL DISTURBED AREAS LEFT MULCHED AFTER 30-DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

1.22. 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.

1.23. 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 EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER.

1.24. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
Issued: 05/01/2017 Expires: 05/01/2023

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CRANSTON

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
R. Banks Tate 10/19/21

REV #	DATE	DESCRIPTION

ANGC - 2021 Demolition & Stabilization Phase I

Erosion Control Notes

DRAWN BY:	MAB
CHECKED BY:	SMS
APPROVED BY:	RBT
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JOB No.	2021-0001
DRAWING No.	C300

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GSWCC AND NPDES NOTES (CONTINUED):

36. A DESCRIPTION OF APPROPRIATE EROSION CONTROL MEASURES TO BE IMPLEMENTED (CONTINUED):

INITIAL PHASE:

1. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.
2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.
3. PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DELINEATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED 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.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT (Co) SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY AS SHOWN ON THE PLANS.
5. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE OF THE EROSION CONTROL PLAN.
6. SILT FENCE OR APPROVED EQUAL SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA OR AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
7. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
8. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL WITHIN 7 DAYS AFTER INSTALLATION. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION MEASURES. IF UNFORESEEN CONDITIONS EXIST 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 THE DESIGN PROFESSIONAL.
10. 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 STORAGE DEVICES AS SHOWN ON THE INITIAL PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.
11. INITIAL PHASE BMPs UTILIZED IN THIS PLAN(S) ARE AS FOLLOWS:
    CO, SD1-CS, DS1

INTERMEDIATE PHASE:

1. MAINTAIN PREVIOUSLY INSTALLED BMPs.
2. SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
3. 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 AND SEDIMENTATION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER.
5. SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
6. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT ENTRAPMENT DEVICES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE DEVICES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
7. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED WEEKLY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
8. INTERMEDIATE PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:
    CO, SD1-CS, DS1, DS2

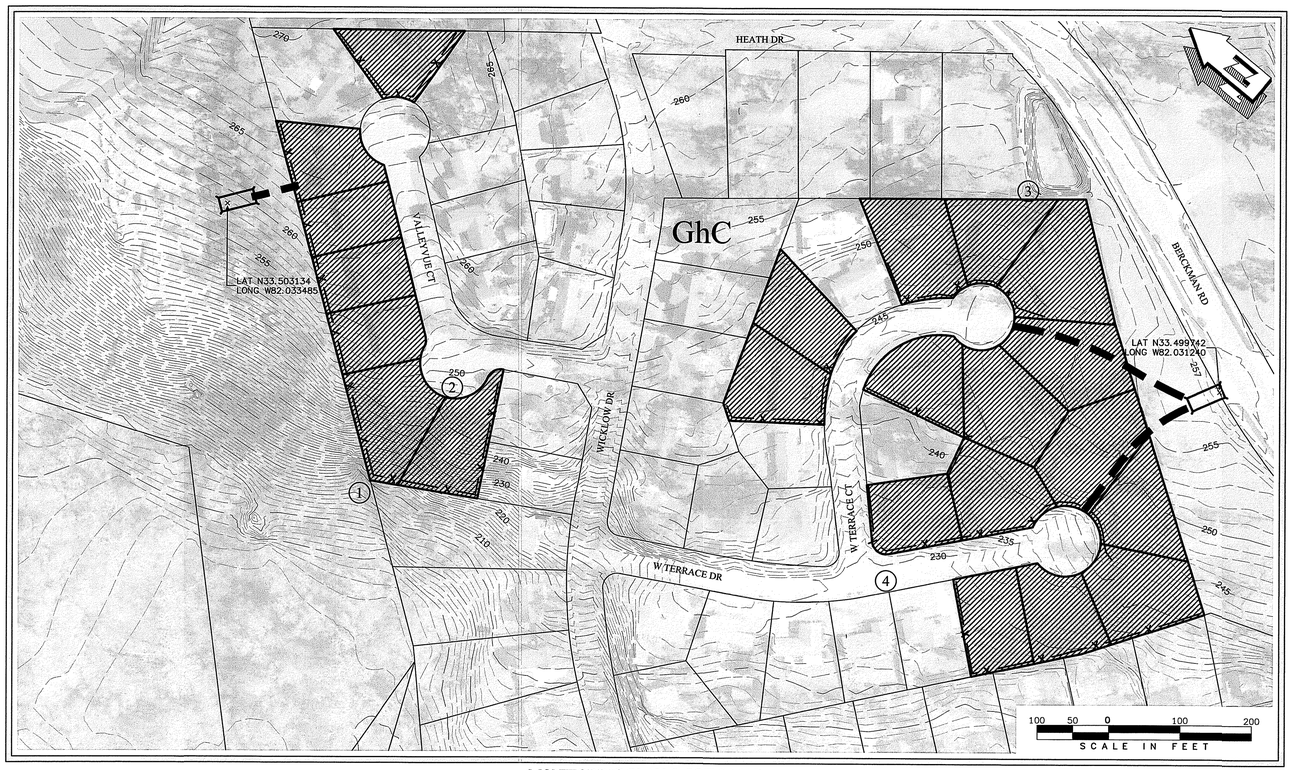
FINAL PHASE:

1. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT DEVICES AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF EACH DEVICE WHEN IT REACHES THE REQUIRED CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
2. AFTER CURBING AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON THE EXISTING INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION.
3. FINAL STABILIZATION OF PERMANENT GRASS MUST MEET 100% COVERAGE, 70% DENSITY RULE.
4. FINAL PHASE BMPs UTILIZED ON THIS PLAN(S) ARE AS FOLLOWS:
    DS3, SD2-P, WATER QUALITY FEATURE

37. GRAPHIC SCALE AND NORTH ARROW PROVIDED ON PLAN SHEET C200.
38. THE CONTOUR INTERVAL ON PLAN SHEET C200 IS 1'.
39. ARE ALTERNATE BMPs TO BE USED ON THIS PROJECT: NO
40. IF ALTERNATE BMPs ARE USED, THE USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA LATEST EDITION. SEE CALC SHEET N/A
41. THE 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 CAN BE FOUND ON PLAN SHEET(S) N/A.
42. THE DELINEATION OF ALL ON-SITE WETLANDS AND ALL STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE, IF APPLICABLE, CAN BE FOUND ON PLAN SHEET(S) N/A.
43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE CAN BE FOUND ON THE PLAN SHEET(S) N/A.
44. HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH THE PRE-DEVELOPED AND POST-DEVELOPED CONDITIONS ARE PROVIDED ON SHEET N/A.
45. ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: PRE: 0.50 POST: 0.30
46. STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION:
    STORM DRAIN PIPE Q, V, L, W, D, AND SIZE PROVIDED ON SHEET N/A.
47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION IS PROVIDED ON SHEET C200 & C301.
48. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION IS PROVIDED ON PLAN SHEET C200.
49. SEE CALCULATIONS PROVIDED ON THIS SHEET FOR SEDIMENT STORAGE REQUIREMENTS.
50. THE LOCATION OF BEST MANAGEMENT PRACTICES ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND ARE PROVIDED ON SHEETS C200, C302 & C303.
51. DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES ARE PROVIDED ON SHEET(S) C302.

52. VEGETATIVE PRACTICES:

1. SEPTEMBER 15 – FEBRUARY 15, A MIXTURE OF UNHULLED COMMON BERMUDA 6 LBS./ACRE AND RYE GRASS SEED 28 LBS./ACRE APPLIED SIMULTANEOUSLY.
2. OCTOBER 1 – MARCH 1, UNHULLED COMMON BERMUDA 10 LBS./ACRE.
3. APRIL 1 – JUNE 1, HULLED COMMON BERMUDA 10 LBS./ACRE.
4. FERTILIZER GRADE WILL BE A COMMERCIAL 6-12-12 INCORPORATED INTO THE SOIL AT 1500 LBS./ACRE, ALSO 1500 LBS. DOLOMITIC LIME.
5. NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 LBS. OF AVAILABLE NITROGEN /ACRE. APPLICATION BETWEEN JUNE THRU AUGUST.
6. ALL SEEDED AREAS WILL BE MULCHED WITH STRAW OR HAY MULCH AT A RATE OF 2.5 TONS/ACRE.
7. FOR ALL DATES NOT COVERED UNDER THE GRASSING SCHEDULE THE DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED USING POLYACRYLAMIDE.
8. CONTRACTOR TO ENSURE THAT EXISTING ON SITE VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION IS PRESERVED AND THAT ALL DISTURBED PORTIONS OF THE SITE ARE STABILIZED.
9. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.



MONITORING PLAN & SOILS MAP
1"=100'

MONITORING POINTS

MONITORING POINT LOCATIONS ARE SHOWN ABOVE:

1. EXISTING DITCH DOWNSTREAM OF DEMOLITION WORK
2. EXISTING INLET UPSTREAM OF DEMOLITION WORK
3. EXISTING SWALE UPSTREAM OF DEMOLITION WORK
4. EXISTING INLET DOWNSTREAM OF DEMOLITION WORK

SOILS

GhC GEORGEVILLE-URBAN LAND COMPLEX, 2 TO 8 PERCENT SLOPES

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CRANSTON

GEORGIA PROFESSIONAL NO. 35714 ENGINEER R. BANKS TATE
10/19/21

REV #	DATE	DESCRIPTION

ANGC - 2021 Demolition & Stabilization Phase I

Erosion Control Notes

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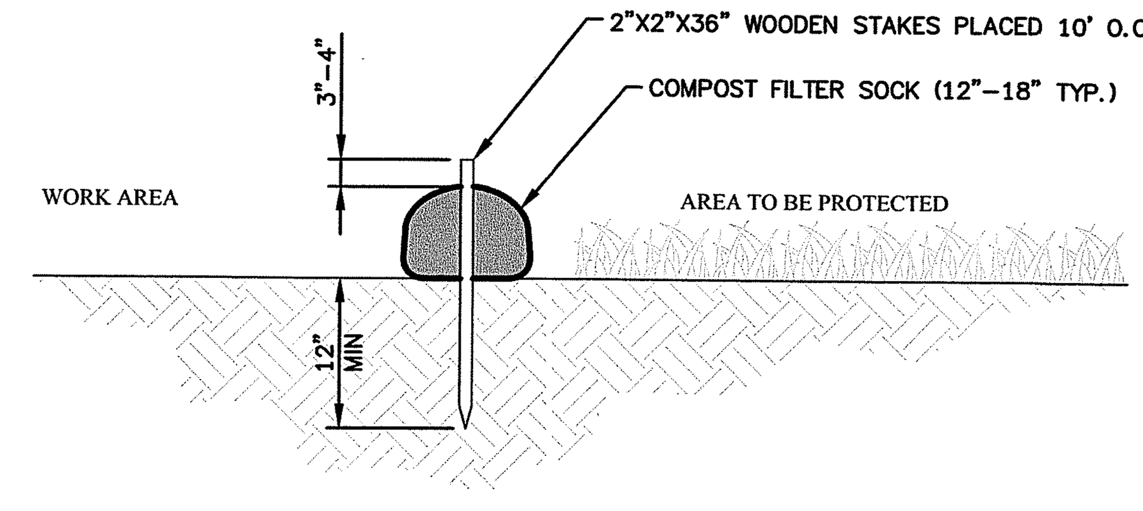
STRUCTURAL PRACTICES

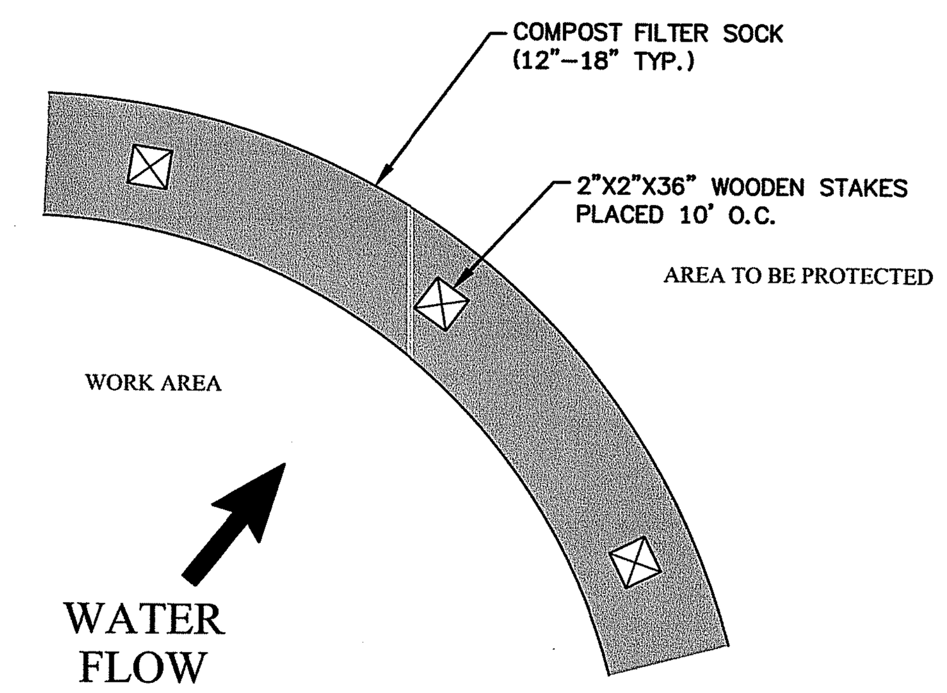
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co (LABEL)	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.
Sd1	SEDIMENT BARRIER		TYPE (INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH ,LOGS AND POLES, GRAVEL OR A SILT FENCE.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREA.



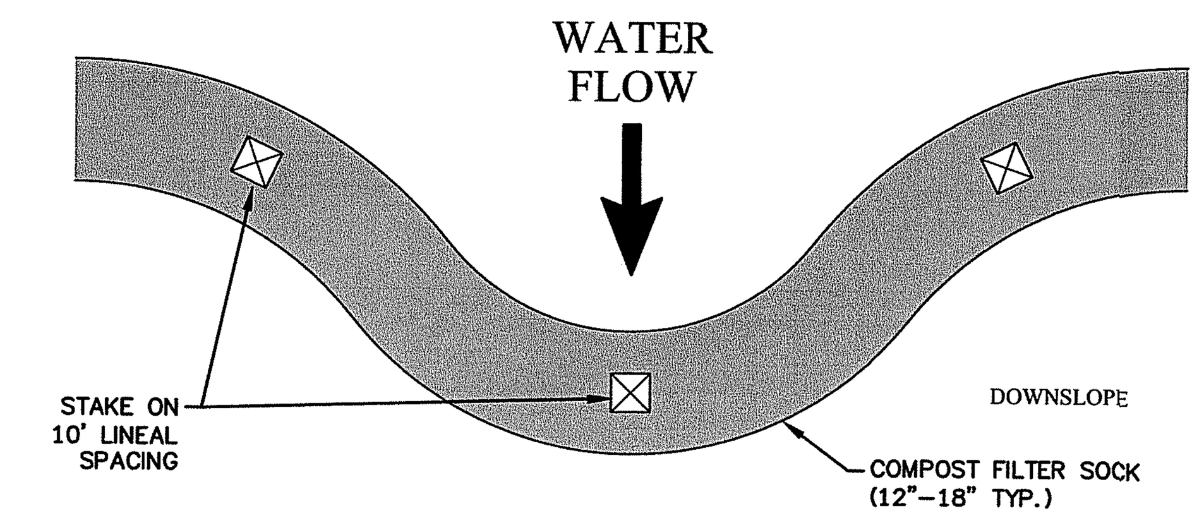
SECTION



PLAN

	PERIMETER MAXIMUM DRAINAGE AREA BASED ON SLOPE LENGTH AND RECOMMENDED DIAMETER SOCK				
SLOPE		8"	12"	18"	24"
0% - 2%	FLATTER THAN 50:1	125	250	300	350
2% - 10%	50:1 - 10:1	100	125	200	250
10% - 20%	10:1 - 5:1	75	100	150	200
20% - 33%	5:1 - 2:1	50*	50	75	100
> 50%	> 2:1	25*	25	50	75

REPLACES TYPE "A" SILT FENCE
REPLACES TYPE "B" SILT FENCE
REPLACES TYPE "C" SILT FENCE
LENGTHS SHOWN IN FEET
*ONLY TO BE USED IN CONJUNCTION WITH COMPOST BLANKETS



PLAN

SILT FENCE - COMPOST FILTER SOCK (Sd1-Cs)
N.T.S.

CRANSTON ENGINEERING

JOB # 2021-0001

PROJECT TITLE: ANGC - 2021 Demolition & Stabilization
WORK DESCRIPTION: Erosion Sock Sediment Storage calcs
PAGE ____ OF ____ PAGES
COMP: R.B.T. DATE: 10/19/21
CHECKED: ____ DATE: ____

Sediment Storage
8"
4"
3.3'
1'
AVG Slope of ground ≈ 10%

Area of Storage
x
.33'
3.3'

$(.33)^2 + (x)^2 = (3.3)^2$
$x = 3.28'$

Storage volume per foot = .54 ft³

Area = ½(b)(h)
$A = \frac{(.33)(3.28)}{2}$
A = .54 ft²

Total disturbed acreage of project = 6.80 acres
Sediment storage required = 67 cy/acre x 6.80 acres = 455.6 C.Y.
Total length of erosion sock on project = 2,780 L.F.
Sediment storage provided by erosion sock = (0.54 ft²/L.F.) x (2780 L.F.)
= 1,501.2 ft³ = 55.6 C.Y.

CRANSTON ENGINEERING

JOB # 2021-0001

PROJECT TITLE: ANGC - 2021 Demolition & Stabilization
WORK DESCRIPTION: Sediment Storage Calculations
PAGE ____ OF ____ PAGES
COMP: R.B.T. DATE: 10/19/21
CHECKED: ____ DATE: ____

Note: Sediment storage on this site will be provided inside building footprints once the structure has been removed. Assuming that a depth of 6" will be available for storage once the structure is removed. The calculations show the total storage provided by 79,715 ft² of structure being removed.

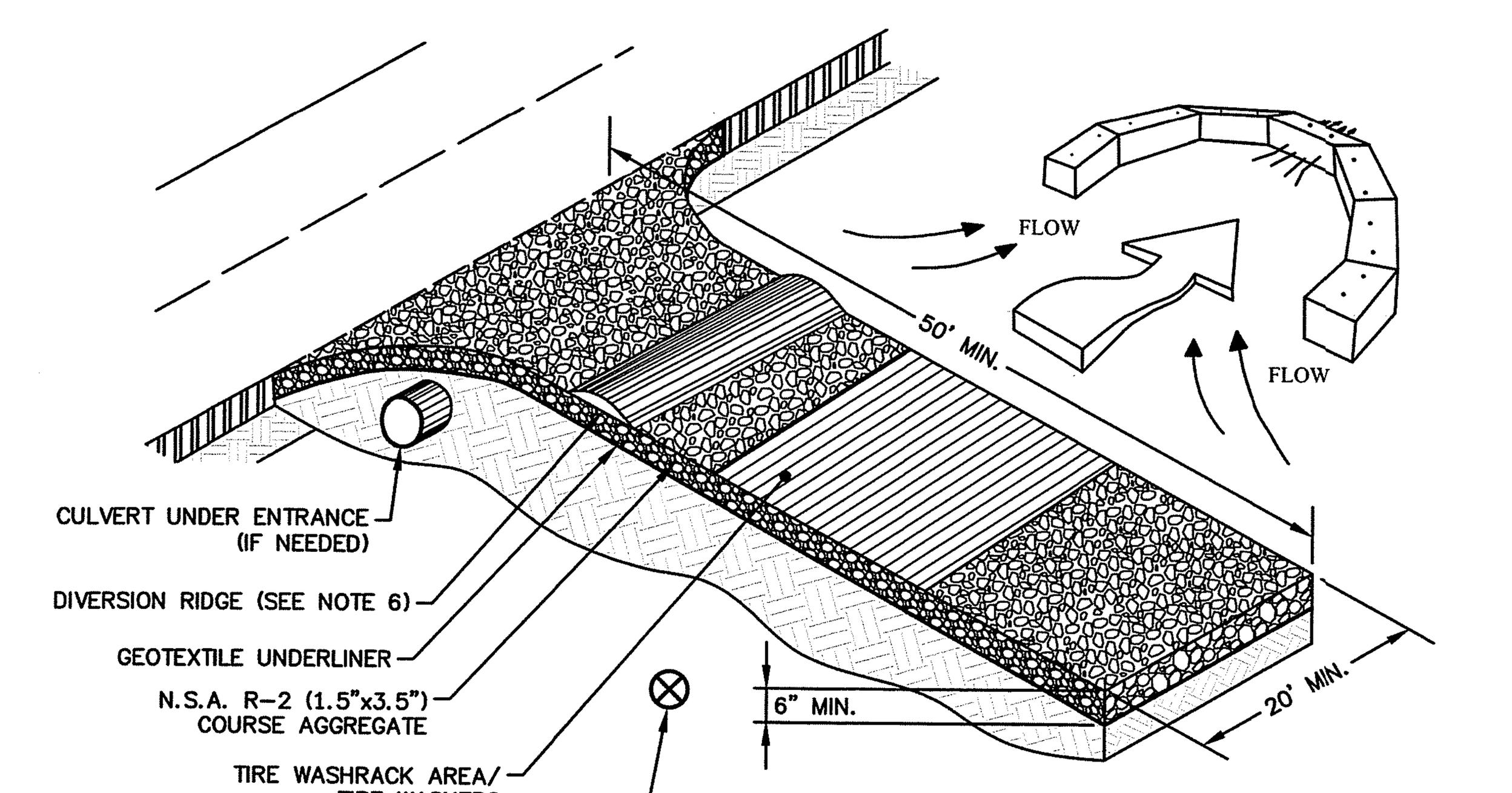
Total storage: 79,715 ft² x 0.5' = 39,857.5 ft³
= 1,476 C.Y.

STORAGE BY EROSION SOCK = 55.6 C.Y.

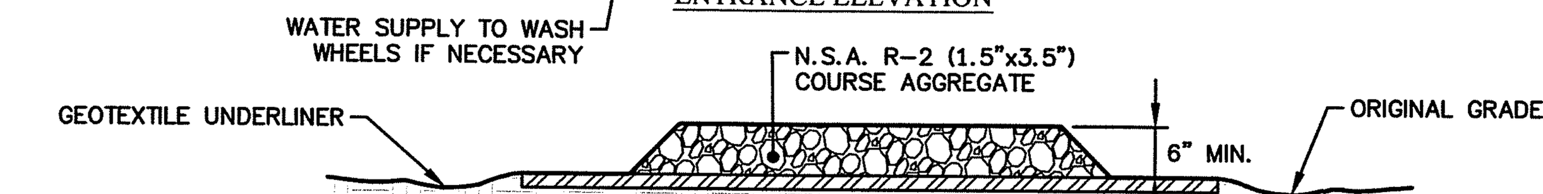
Total Sediment Storage on site = 1,531.6 C.Y.

Storage Required = 455.60 C.Y.

EXIT DIAGRAM



ENTRANCE ELEVATION



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

CRUSHED STONE CONSTRUCTION OUTLET (Co)
N.T.S.

GSWCC Georgia Soil and Water Conservation Commission
Robert Banks Tate
Level II Certified Design Professional
Certification Number 000052948
Issued: 05/01/2017 Expires: 05/01/2023

CRANSTON

GEORGIA PROFESSIONAL ENGINEER NO. 35714 R. BANKS TATE
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ANGC - 2021 Demolition & Stabilization Phase I

Erosion Control Details

DRAWN BY:	MAB
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JOB No.	2021-0001
DRAWING No.	C302

C:\G\AAA-ACTIVE JOBS\2021\2021-0001_ANGC MISC CONSULTS 2021\AA-DRAWINGS\CIVIL\2021-0001_ESPC.DWG 10/19/2021 3:41 PM

INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER.
- MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO 6 MONTHS. APPLY AT THE APPROPRIATE DEPTH. REFER TO TABLE 1 FOR SPECIFIC MATERIALS.

SITE PREPARATION	• GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH • INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIKES, BERMS, AND SEDIMENT BARRIERS. • LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".
APPLYING MULCH	• APPLY DRY STRAW OR HAY AND WOOD CHIPS UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. • APPLY 20–30 LBS OF NITROGEN/ACRE IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION. • APPLY POLYETHYLENE FILM ON EXPOSED AREAS.
ANCHORING MULCH	• PRESS STRAW OR HAY INTO THE SOIL WITH A DISK HARROW IMMEDIATELY AFTER APPLICATION. TACKIFIERS MAY BE USED WHEN SPREADING MULCH WITH BLOWER–TYPE EQUIPMENT. • ANCHOR WOOD WASTE USING THE APPROPRIATE SIZE NETTING • TRENCH POLYETHYLENE AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

MULCHING APPLICATION REQUIREMENTS:

MATERIAL	RATE	DEPTH
STRAW OR HAY		2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK		2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	
WOOD WASTE, CHIPS, SAWDUST, BARK	SEE MANUFACTURER'S RECOMENDATIONS	

MAINTENANCE

THE APPROPRIATE DEPTH AND 90% COVER SHALL BE MAINTAINED AT ALL TIMES.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) Ds1

INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO ROUGH GRADED THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS.
- COORDINATE WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE STABILIZATION.
- TAKE NOTE OF WHICH SPECIES ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS.
- WHEN THE SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, SCARIFY THE SOIL IN ORDER PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
- APPLY AGRICULTURAL LIME AT THE RATE DETERMINED BY THE SOIL PH TEST.
- APPLY LIME BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL.
- ON STEEP SLOPES, APPLY FERTILIZER HYDRAULICALLY.
- SELECT GRASS, OR GRASS–LEGUME MIXTURES BASED ON THE AREA AND SEASON OF THE YEAR.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER DRILL, CULTI–PACKER–SEEDER, OR HYDRAULIC SEEDER.
- THE APPROPRIATE DEPTH OF PLANTING IS 10X THE SEED PLANTER
- APPLY IRRIGATION AT A RATE THAT WILL NOT CAUSE RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO INSURE GERMINATION OF THE SEED.

TEMPORARY PLANT SPECIES, SEEDING RATES & PLANTING DATES

SPECIES	RATES PER 1000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION		
			M–L	P	C
BARLEY, ALONE	3.30 LBS	0 BU	9/1–10/31	9/15–11/15	10/1–12/31
BARLEY, IN MIXTURES	0.60 LBS	0.5 BU			
LESPEDEZA, ANNUAL	0.90 LBS	40 LBS	3/1–3/31	3/1–3/31	2/1–2/28
LESPEDEZA, IN MIXTURES	0.20 LBS	10 LBS			
LOVEGRASS, ALONE	0.10 LBS	4 LBS	4/1–5/31	4/1–5/31	3/1–5/31
LOVEGRASS, IN MIXTURES	0.05 LBS	2 LBS			
MILLET, IN BROWNTOP	0.90 LBS	40 LBS	4/15–6/15	4/15–6/30	4/15–6/30
MILLET, IN MIXTURES	0.20 LBS	10 LBS			
MILLET, PEARL	1.10 LBS	50 LBS	5/15–7/15	5/1–7/31	4/15–8/15
OATS, ALONE	2.99 LBS	4 LBS	9/15–11/15	9/15–11/15	9/15–11/15
OATS, IN MIXTURES	0.70 LBS	1.0 LBS			
RYE (GRAIN), ALONE	3.90 LBS	3 BU	8/15–10/31	9/15–11/30	10/1–12/31
RYE, IN MIXTURES	0.60 LBS	0.5 BU			
RYEGRASS	0.90 LBS	40 LBS	8/15–11/15	9/1–12/31	9/15–12/31
SUDANGRASS	1.40 LBS	60 LBS	5/1–7/31	5/1–7/31	4/1–7/31
TRITICALE, ALONE	3.30 LBS	3 BU	N/A	N/A	10/15–11/30
TRITICALE, IN MIXTURES	0.60 LBS	0.5 BU			
WHEAT, ALONE	4.10 LBS	3 BU	9/15–11/30	10/1–12/15	10/15–12/31
WHEAT, IN MIXTURES	0.70 LBS	0.5 BU			

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	1000	---
	MAINTENANCE	10–10–10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6–12–12	1500	50–100
	SECOND	10–10–10	1000	---
	MAINTENANCE	10–10–10	400	---
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	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

MAINTENANCE:

- RESEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE.
- IF OPTIMUM CONDITIONS FOR TEMPORARY VEGETATION IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) Ds2

INSTALLATION:

- USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
- FINAL STABILIZATION MEANS THAT 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION AND WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDINGLY TO THE PLAN (UNIFORMLY COVERED LANDSCAPING MATERIAL IN PLANNED LANDSCAPING AREAS), OR THE EQUIVALENT PERMANENT STABILIZATION METHODS.
- SELECT PLANTS SPECIES BASED ON SITE AND SOIL CONDITIONS, PLANNED USE, MAINTENANCE OF THE AREA, TIME OF YEAR, METHOD OF PLANTING, AND THE NEEDS OF THE LAND USER.
- APPLY AGRICULTURAL LIME AT A RATE OF 1–2 TONS/ACRE UNLESS SOIL TEST INDICATE OTHERWISE. PLEASE REFER TO PERMANENT PLANT SPECIES, SEEDING RATES & PLANTING DATES TABLE BELOW FOR INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENT FOR EACH SPECIES.
- APPLY SEED HYDRAULICALLY, IF USING CONVENTIONAL METHODS, USE A CULTI–PACKER SEEDER, DRILL, ROTARY SEEDER, OR BY HAND.
- COVER THE SEED LIGHTLY WITH 1/8"–1/4" OF SOIL FOR SMALL SEED AND 1 1/2"–1" OF SOIL FOR LARGE SEED WHEN USING A CULTI–PACKER.
- CHECK SEED TAGS FOR % GERMINATION & % PURITY IN ORDER TO CALCULATE PURE LIVE SEED (PLS), WHICH IS THE PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE.
- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. PLEASE REFER TO Ds1 FOR APPLICATION RATES AND ANCHORING METHODS FOR DIFFERENT MATERIALS FOR DIFFERENT MATERIALS.
- IRRIGATE WHEN THE SOIL IS DRY AND AT A RATE THAT WILL NOT CAUSE RUNOFF.

MAINTENANCE:

- RE–SEED AREAS WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- MAINTAIN AT LEAST 6" OF TOP GROWTH UNDER ANY USE AND MANAGEMENT.
- EXCLUDE TRAFFIC UNTIL THE PLANTS ARE ESTABLISHED.
- REFER TO FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION TABLE FOR SECOND YEAR AND MAINTENANCE FERTILIZER RATES.
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4–6 YEARS AS INDICATED BY SOIL TESTS.
- MOW BERMUDA GRASS, BAHAI GRASS, AND TALL FESCUE AS DESIRED.
- MOW SERICIA LESPEDEZA ONLY AFTER FROST INSURES THAT THE SEEDS ARE MATURE.

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS/ACRE)	N TOP DRESSING RATES (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6–12–12	1500	50–100
	SECOND	6–12–12	1000	---
	MAINTENANCE	10–10–10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6–12–12	1500	0–50
	SECOND	0–10–10	1000	---
	MAINTENANCE	0–10–10	400	---
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
	SECOND	0–10–10	1000	---
	MAINTENANCE	0–10–10	400	---

PERMANENT PLANT SPECIES, SEEDING RATES & PLANTING DATES

SPECIES	RATES PER 1000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION			REMARKS
			M–L	P	C	
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	---	4/1–5/31	3/1–5/31	LOW GROWING, SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BAHIA, WILMINGTON ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	3/15–5/31	3/1–5/31	---	LOW GROWING, SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BERMUDA, COMMON (HULLED SEED) ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	---	4/1–5/31	3/15–8/15	QUICK COVER; LOW GROWING; SOD FORMING; NEEDS FULL SUN.
BERMUDA, COMMON (UNHULLED SEED) ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	---	10/1–2/28	11/1–1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRINGS COMMON LAWN AND FORAGE HYBRIDS	40 CU. FT. SOD PLUGS 3x3	0.9 CU. FT.	4/15–6/15	4/1–6/15	4/1–5/31	1 CU. FT. = 650 SPRIGS 1 BU. = 1.25 CU. FT. OR 800 SPRIGS
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	---	11/1–5/31	11/1–5/31	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE.
CROWN VETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LBS.	9/1–10/15	9/1–10/15	---	MIX WITH 30 LBS. TALL FESCUE OR 15 LBS. RYE; INOCULATED SEED; PLANT ONLY NORTH OF ATLANTA.
FESCUE, TAIL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	3/1–4/15 OR 8/15–10/15	9/1–10/15	---	CAN BE MIXED WITH PERENNIAL LESPEDEZES OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE AREAS.
LESPEDEZA, SERICEA						WILDLY ADAPTED AND LOW MAINTENACE; TAKES 2–3 YEARS TO ESTABLISH; INOCULATE SEED WITH EL INOCULANT; MIZ WITH WEEPING LOVEGRASS; COMMON BERMUDA; BAHAI; OR TALL FESCUE.
SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1–5/31 9/1–2/28	3/15–5/31 9/1–2/28	3/1–5/15 9/1–2/28	MIX WITH TALL FESCUE OR WINTER ANNUALS.
SEED BEARING HAY	3 TONS	138 LBS.	10/1–2/28	10/1–1/31	10/15–1/15	CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA AMBRO VIGATA OR APPALOW SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1–5/31 9/1–2/28	3/15–5/31 9/1–2/28	3/1–5/15 9/1–2/28	SPREADING GROWTH WITH HEIGHT 18"–24"; GOOD IN URBAN AREAS; SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEPING LOVEGRASS; COMMON BERMUDA, BAHIA, TALL FESCUE, OR WINTER ANNUALS; DO NOT MIX WITH SERICEA LESPEDEZA, INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGII) PLANTS	3'x3' SPACING		10/1–3/31	11/1–3/15	11/15–2–28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	4/1–5/31	3/15–5/31	3/1–5/31	QUICK COVER; DROUGHT TOLERANT; GROWS WELL WITH SERICEA LESPEDEZA, ON ROAD BANKS AND OTHER STEEP SLOPES; SHORT LIVED.
MAIDENCANE SPRIGS	2'x3' SPACING		2/1–3/31	2/1–3/31	2/1–3/31	FOR VERY WET SITES SUCH AS RIVER BANKS AND SHORELINES. DIG SPRIGS LOCALLY
PANICGRASS, ATLANTIC COSTAL	20 LBS.	0.5 LBS.	---	3/1–4/30	3/1–4/30	GROWS WELL ON COSTAL SAND DUNE; MIX WITH SERICEA LESPEDEZ, BUT NOT ON THE SAND DUNE.
RED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	8/15–10/15	9/1–10/15	---	GROWS SIMILAR TO TALL FESCUE; FOR WET SITES.
SUNFLOWER, AZTEC MAXIMILLAN	10 LBS.	0.2 LBS.	4/15–5/31	4/15–5/31	4/1–5/31	MIX WITH WEEPING LOVEGRASS OR OTHER LOW GROWING GRASSES OR LEGUMES.

1. RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE–HALF.
2. PLS IS AN ABBREVIATION FOR PURE LIVE SEED. REFER TO GLOSSARY IN GSWCC FIELD MANUAL FOR AN EXPLANATION OF THIS TERM.
3. SEEDING RATES ARE BASED ON PURE LIVE SEEDS (PLS).

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) Ds3

PURE LIVE SEED (PLS) EXAMPLE:

TALL FESCUE
85% GERMINATION & 95% PURITY
PLS = 0.85 (GERMINATION) x 0.95 (PURITY)
PLS = 80.75%

SEEDING RATE = 50 LBS PLS/ACRE = 61.92 LBS/ACRE PLS
80.75% PLS

GSWCC Georgia Soil and Water Conservation Commission

Robert Banks Tate
Level II Certified Design Professional

Certification Number 0000052948
Issued: 05/01/2017 Expires: 05/01/2023

CRANSTON

GEORGIA PROFESSIONAL NO. 35714 ENGINEER R. BANKS TATE

R. Banks Tate 10/19/21

REV #	DATE	DESCRIPTION

ANGC - 2021 Demolition & Stabilization Phase I

Erosion Control Details

DRAWN BY:	MAB
CHECKED BY:	SMS
APPROVED BY:	RBT
DATE:	10–20–2021
SCALE:	AS SHOWN
JOB No.	2021–0001
DRAWING No.	C303

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