# CITY OF BROOKHAVEN NORTH FORK NANCY CREEK STREAM RESTORATION FROM I-285 TO MURPHEY CANDLER LAKE **ISSUED FOR PERMIT - DESIGN DRAWINGS**



VICINITY MAP NOT TO SCALE

4251 LONG BRANCH CT BROOKHAVEN, DEKALB COUNTY GA LOT(S) 0331, 0346

PRIMARY PERMITTEE CITY OF BROOKHAVEN 4362 PEACHTREE ROAD BROOKHAVEN, GA 30019 (404)637-0540

SECONDARY PERMITTEE N/A

- GPS COORDINATES BEGINNING OF PROJECT:
- LAT = 33.9199 - LONG = -84.3279
- GPS COORDINATES END OF PROJECT: - LAT = 33.9148
- LONG = -84.3262

The City of Brookhaven does not certify the accuracy of these drawings. In approving these drawings and specifications, the City has relied upon the accuracy of the information and representations furnished herein by the engineer, or architect, and/or applicant. The City of Brookhaven assumes no liability or responsibility for the accuracy of the representations provided.





**DO NOT BEGIN CONSTRUCTION** before the on-site pre-construction meeting with the City Land Development Inspector. Schedule through the Project Portal: https://cityworks.brookhavenga.gov/ProjectPortal



SEPTEMBER 2023



Georgia Registered Engineering Firm PED-004433 Expires 06/30/2024

360 Interstate North Parkway, Suite 250 Atlanta, GA 30339 Phone - (404) 334-4310 Web – www.freese.com





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APPROVED FIRE MARSHAI



# APPROVED

# Engineering

Timothv Ward

LOCATION/FLOOD HAZARD MAP

NOT TO SCALE FIRM PANEL 13089C0012K EFFECTIVE DATE AUGUST 15, 2019

THIS PROJECT WAS PREPARED USING THE HORIZONTAL COORDINATE SYSTEM ON GEORGIA WEST ZONE (NAD83), AND NORTH AMERICAN VERTICAL DATUM (NAVD 1988).

DISTURBED AREA: 4.3 ACRES

**PERMITS:** USACE NWP27: SAS-2020-00393 GA EPD: BV-044-21-01 COUNTY: 3115753 CITY: LDP22-00016

SWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
JOHN P	. SCHNEIDER
el II Certified	Design Professional
ICATION NUMBER	0000094149
-p. 04/27/2021	EXPLOSE 04/27/2024

24 HOUR CONTACT: CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT TOM ROBERTS TOM.ROBERTS@BROOKHAVENGA.GOV 404-637-0540

> **ISSUED FOR PERMIT** NOT FOR CONSTRUCTION

GENERAL NOTES

- 1. THE PROJECT BEGINS ADJACENT TO I-285 AT 4251 LONG BRANCH CT, AND EXTENDS DOWNSTREAM TO MURPHEY CANDLER LAKE WITHIN THE CITY OF BROOKHAVEN IN LAND LOT(S) 0331 & 0346 IN THE 18TH DISTRICT, DEKALB COUNTY, GEORGIA.
- 2. THE PROJECT IS FOR THE RESTORATION/STABILIZATION OF NORTH FORK NANCY CREEK. CONSTRUCTION ACTIVITY WILL INCLUDE INSTALLA IN-STREAM STRUCTURES, ACCOMPANYING SITE GRADING, BANK STABILIZATION, AND PLANTING OF NATIVE VEGETATION.
- 3. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM, (GA WEST ZONE, NAD83). VERTICAL DATUM IS NAV 4. THIS PROPERTY LIES WITHIN SPECIAL FLOOD HAZARD ZONE 'AE', FIRM MAP NUMBER 13089C0012K OF THE DEKALB COUNTY FLOOD INSU
- STUDY, EFFECTIVE DATE: AUGUST 15, 2019. 5. THE STORMWATER RUNOFF FLOWS DIRECTLY INTO NORTH FORK NANCY CREEK. NORTH FORK NANCY CREEK IS A PART OF THE NANCY CRE WATERSHED IN DEKALB COUNTY.
- 6. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S SOLI RESPONSIBILITY TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL ALSO NOTIFY UTILITIES OF PROPOSED CONSTRUCTION AT LEAST (2), BUT NOT MORE THAN TEN (10) WORKING DAYS IN ADVANCE. FOR UTILITY LOCATES/NOTIFICATI CONTACT:
- DEKALB COUNTY PUBLIC WORKS: 404-371-2000
- DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT: 770-621-7200
- UTILITY PROTECTION CENTER: 811 OR 1-800-282-7411
- 7. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY OF BROOKHAVEN, DEKALB COUNTY, AND STATE OF GEORGIA STANDARDS AN SPECIFICATIONS.
- 8. TO REPORT PUBLIC WORKS EMERGENCIES, CONTACT THE CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT 24 HOURS-A-DAY NUMBER: 404-637-0540.
- 9. PLACE MATERIAL FROM EXCAVATION AWAY FROM DRAINAGE FEATURES TO PREVENT OBSTRUCTION OF STORM DRAINAGE FLOW.
- 10. THE SITE GRADE WILL BE RETURNED TO NATURAL CONTOURS TYPICAL OF A RIPARIAN ENVIRONMENT. ALL DISTURBED PAVEMENT, CURB SIDEWALK, AND LANDSCAPING WILL BE REPLACED IN KIND.
- 11. CONTRACTOR TO COORDINATE WITH PROJECT ENGINEER REGARDING NECESSARY BYPASS PUMPING AND/OR TEMPORARY PIPING TO MA CREEK FLOWS WITHOUT IMPACT TO THE ENVIRONMENT.
- 12. CONSTRUCTION LAYOUT AND STAKING SHALL BE PROVIDED BY THE CONTRACTOR.
- 13. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION, IF REQUIRI 14. DURING NON-WORKING HOURS OR DAYS, ALL EXCAVATED AREAS ARE TO BE BACKFILLED OR SECURED AND PROTECTED USING APPROVE DEVICES AND MATERIALS.
- 15. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, EITHER IN THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CON SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS OR DISCREPANCIES ARE RES
- 16. THE CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE PROCEEDING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 17. THE CONTRACTOR SHALL NOT MOVE OR DRIVE CONSTRUCTION MACHINERY OR HEAVY EQUIPMENT OVER THE PEDESTRIAN BRIDGE. SEE OR ES-4 FOR LOCATION.
- 18. SHOULD PARK TRAILS BE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR OR REPLACE TO MATCH PRE-PROJECT CON
- 19. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED O SITE UNTIL SUCH MEASURES ARE CORRECTED TO BE EFFECTIVE AND IN COMPLIANCE WITH STATE AND LOCAL REQUIREMENTS.
- 20. THE SANITARY SEWER AERIAL CROSSING AT APPROXIMATE LOCATION OF STA 14+08 TO BE STABILIZED, AS NECESSARY DURING CONSTRU ELIMINATE/MINIMIZE ADVERSE EFFECTS. SEE SHEET C-2 FOR LOCATION.
- 21. THE PREPARATION OF THESE DRAWINGS WAS FINANCED IN PART THROUGH A GRANT FROM THE U.S. ENVIRONMENTAL PROTECTION AGE UNDER THE PROVISIONS OF SECTION 319(h) OF THE FEDERAL WATER POLLUTION CONTROL ACT, AS AMENDED, IN PARTNERSHIP WITH TH ENVIRONMENTAL PROTECTION DIVISION OF THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.
- 22. AN UPDATED TREE SURVEY WILL BE PERFORMED PRIOR TO CONSTRUCTION IN ORDER TO FIELD-LOCATE "LEAVE-TREES" FOR THE CONTRA TO AVOID.
- 23. CONSTRUCTION DRAWINGS NOT DEPENDENT ON TREE MATERIALS BEING RE-USED ON SITE. CONTRACTOR MAY SUPPLEMENT WOODY M WITH THOSE REMOVED ON SITE ONLY IF MARKED FOR REMOVAL
- 24. REFER TO APPENDED TREE PLAN FOR CRZ/SRP IMPACTS AND PRELIMINARY TREE REMOVAL PLAN.
- 25. SEE BELOW TABLE FOR IN-STREAM STRUCTURE STATIONING AND ELEVATION DATA. ELEVATIONS REFER TO THE THALWEG (I.E. INVERT) OF CHANNEL.

STRUCTURE DATA TABLE								
STATION	DESCRIPTION	<b>ELEVATION (FT)</b>						
10+30	ROCK SILL	892.6						
10+42	ROCK SILL	892.6						
10+84	LOG SILL	890.9						
11+49	LOG VANE	890.7						
11+85	LOG SILL	890.8						
12+29	LOG VANE	890.4						
13+06	LOG SILL	890.0						
15+58	LOG VANE	886.1						
15+97	LOG SILL	886.1						
16+37	LOG SILL	886.7						
17+31	LOG SILL	886.5						
18+11	LOG SILL	886.2						
18+67	LOG VANE	886.1						
19+55	LOG VANE	886.2						
19+90	LOG SILL	886.2						
20+40	LOG SILL	886.2						
21+02	LOG VANE	886.1						
21+37	LOG SILL	885.6						
21+76	LOG VANE	886.0						
22+18	LOG SILL	886.0						
22+79	LOG VANE	886.0						
23+29		885.8						

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STRUCTURE DATA TABLE								
STATION	DESCRIPTION	<b>ELEVATION (FT)</b>						
23+73	LOG SILL	885.5						
24+46	LOG SILL	886.1						
24+82	LOG SILL	885.8						
25+30	LOG SILL	885.9						
25+61	LOG SILL	886.2						
26+10	LOG SILL	886.2						
26+45	LOG SILL	886.0						
26+83	LOG SILL	886.0						
27+67	LOG SILL	886.0						
28+04	LOG SILL	885.0						
28+48	LOG VANE	885.3						
28+88	LOG SILL	884.6						
29+27	LOG SILL	884.2						
29+66	LOG SILL	884.1						

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	SEQUENCE NO.	SHEET NUMBER	SHEET DESCRIPTION					
/D88.	1	T-1	TITLE COVER					
RANCE	2	G-1	GENERAL NOTES					
EEK	3	G-2	OVERVIEW MAP					
E	4	C-1	START TO STA 14+00					
	5	C-2	STA 14+00 TO STA 18+00					
	6	C-3	STA 18+00 TO STA 22+00					
	7	C-4	STA 22+00 TO STA 26+00					
	8	C-5	STA 26+00 TO END					
D	9	CS-1	CROSS SECTION VIEWS					
	10	CS-2	CROSS SECTION VIEWS					
	11	CS-3	CROSS SECTION VIEWS					
	12	CS-4	CROSS SECTION VIEWS					
,	13	CS-5	CROSS SECTION VIEWS					
AINTAIN	14	CS-6	CROSS SECTION VIEWS					
	15	DT-1	DETAILS					
ED.	16	DT-2	DETAILS					
D SAFETY	17	DT-3	DETAILS					
NTRACTOR	18	DT-4	DETAILS					
SOLVED.	19	DT-5	DETAILS					
SHEET C-3	20	DT-6	DETAILS					
	21	ES-1	EROSION CONTROL NOTES I					
NDITIONS.	22	ES-2	EROSION CONTROL NOTES II					
	23	ES-3	START TO STA 14+00 - PHASE I & II					
JCTION TO	24	ES-4	STA 14+00 TO STA 22+00 - PHASE I & II					
ENCY	25	ES-5	STA 22+00 TO END - PHASE I & II					
	26	ES-6	DS STAGE & STOCK PILE AREA - PHASE I & II					
CTOR(S)	27	ES-7	START TO STA 14+00 - PHASE III					
ATERIALS	28	ES-8	STA 14+00 TO STA 22+00 - PHASE III					
	29	ES-9	STA 22+00 TO END - PHASE III					
F THE	30	ES-10	DS STAGE & STOCKPILE AREA - PHASE III					
	31	ES-11	ESC DETAILS					
	32	ES-12	ESC DETAILS					
	33	ES-13	ESC DETAILS					



# Know what's **below. Call before you dig**.

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				FREESE		<ul> <li>360 Interstate North Parkway,</li> </ul>	Suite 250	Atlanta, GA 30339 Phone - (404) 334-4310	Web - www.freese.com
		CITY OF BROOKHAVEN	N FORK NANCY CREEK STREAMBANK RESTORATION		FROM I-285 TO MURPHEY CANDLER LAKE	GENERAL			GENERAL NOTES
		F&N JOB NO.	BGA20127	DATE 07/05/2023	DESIGNED JMM JLJ	DRAWN JMMJPS	2 REVISED .	снескер JLJ	.dwg
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24 HOUR CONTACT: CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT TOM ROBERTS TOM.ROBERTS@BROOKHAVENGA.GOV 404-637-0540

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24 HOUR CONTACT: CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT TOM ROBERTS TOM.ROBERTS@BROOKHAVENGA.GOV 404-637-0540

### NOTES:

 CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
 WETLANDS TO BE RESTORED WITH NATIVE PLANTINGS AND ANY TEMPORARY FILLS REMOVED TO RE-ESTABLISH WETLAND ELEVATIONS TO PRE-CONSTRUCTION CONTOURS, SEE PLANTING PLAN FOR MORE DETAILS.

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 THE CONTRACTOR SHALL LINE THE LOD WITH TREE PROTECTION FENCE TO PREVENT THE UNNECESSARY REMOVAL OF VEGETATION.
 ALL TEMPORARY STREAM CROSSINGS REQUIRE PLANS FOR CONSTRUCTION, REMOVAL AND RESTORATION PER DT-6.
 NO CONSTRUCTION ACTIVITIES WILL OCCUR WITHIN 10' ON EITHER SIDE OF THE AERIAL SEWER CROSSING. IF DAMAGED DURING CONSTRUCTION, THE CONTRACT SHALL REPAIR AND REPLACE THE SEWER LINE TO EXISTING CONDITIONS.

6. THE EXISTING CHAIN LINK FENCE TO REMAIN. IF DAMAGED, THE CONTRACTOR TO REPAIR AND REPLACE TO EXISTING CONDITIONS.



APPROVED PLAN 10/1/12023 Permit # LDP22-00016



PPROVED PLAN 10/10/2023



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24 HOUR CONTACT: CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT TOM ROBERTS TOM.ROBERTS@BROOKHAVENGA.GOV 404-637-0540

### NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- 2. WETLANDS TO BE RESTORED WITH NATIVE PLANTINGS AND ANY TEMPORARY FILLS REMOVED TO RE-ESTABLISH WETLAND ELEVATIONS TO PRE-CONSTRUCTION CONTOURS, SEE PLANTING PLAN FOR MORE DETAILS.
- 3. ALL TEMPORARY STREAM CROSSINGS REQUIRE PLANS FOR CONSTRUCTION, REMOVAL AND RESTORATION PER DT-6.
- 4. THE CONTRACTOR SHALL LINE THE LOD WITH TREE PROTECTION FENCE TO PREVENT THE UNNECESSARY REMOVAL OF VEGETATION. 5. GRAVEL DRIVE SHALL BE RESTORED TO PRE-PROJECT CONDITIONS
- FOLLOWING PROJECT COMPLETION. 6. ALL WOOD CHIPS USED FOR HAUL ROAD AND/OR STORED ON SITE SHALL BE SPREAD AROUND THE SITE OR HAULED AWAY.





SCALE IN FEET

HORIZONTAL

SCALE IN FEET VERTICAL



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![](_page_13_Figure_3.jpeg)

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![](_page_15_Figure_0.jpeg)

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### NOTE

- 1. ALTERNATE SILL DIRECTION AND SLOPE IN ACCORDANCE WITH PLANS.
- 2. SILL ROCKS TO BE STRUCTURE STONE. 3. CREATE LOW-FLOW NOTCH OF AT LEAST 6" DEPTH USING THINNER ROCK, LOCATE AT 1/3 BANKFULL, ALTERNATING IN RIFFLE, OR LOCATED AT MIDDLE AT THE HEAD OF POOL.
- 4. ENDS OF SILL SHALL BE EMBEDDED INTO BANK AT LEAST 6' PAST TOP OF BANK. MAY BE EXTENDED
- AT DIRECTION OF ENGINEER. 5. IN STEP-POOL AREAS, ANGLED ROCKS SILLS TO BE ALTERNATED IN DIRECTION IN SAME MANNER SHOWN IN THE ANGLED LOG STEP POOL DETAIL (SEE DETAIL THIS SHEET).
- ENSURE THAT ELEVATION OF BOTTOM OF NOTCH IS 6. LOWER THAN ELEVATION OF TOP OF SILL WHERE IT MEETS THE PROPOSED BANK AT THE UPSTREAM END.

![](_page_16_Figure_6.jpeg)

![](_page_16_Figure_7.jpeg)

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![](_page_16_Figure_10.jpeg)

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	Scientific Name	Common Name	Quantity	Remarks		
	Acer rubrum	109				
	Platanus occidentalis	American sycamore	218			
BARE ROOT	Quercus pagoda	Cherry Bark oak	109	Bare root 1/0 seedlings		
TREES	Liriodendron tulipifera	Yellow poplar	109	placed on 5-ft centers,		
	Fagus grandifolia	American beech	109	rows and species randomly		
	Betula nigra	River birch	73	distributed.		
BARE ROOT	Hamamelis virginiana	Witch hazel	363			
SHRUBS	Lindera benzoin	Spice bush	363			
	Alnus serrulata	Tag alder	242	Stakes placed on 3' centers, alternating stakes between		
LIVE STAKES	Salix sericea	Silky willow	242	rows and with species randomly distributed. One row of live stakes planted		
	Cornus amomum	Silky dogwood	242	above staked rock wall and rock toe protection, with stakes spaced 3' apart,		
PERMANENT	Mellow Marsh Farms Piedmont Sha	Apply at 25 lbs/sero				
SEEDING	Manually apply seed of Juncus effus	Apply at 25 lbs/acre				
TEMPORARY	Summer: Brown-top millet			Apply at 50 lbs/acre to all		
SEEDING	Winter: Wrens-abruzzi winter rye or Winter	disturbed areas				

# PLANT LIST

# **REVEGETATION TYPICAL SECTION** SCALE: NTS

![](_page_17_Figure_6.jpeg)

SCALE: NTS

IDE OF THIS SECTION SHOMS PLANTING	Expires 6/30/2024	ORC	SO CONTENT	No DEPTAGE		HA ANONELLA CA	AN MILTON U
TO BE APPLIED FOR STREAMBANKS WHERE 'ROTECTION, STACKED ROCK WALL, OR MUD FO BE USED ON THE LOWER BANK WITH R GEOBAG WALL ON THE UPPER BANK. SIDE OF THIS SECTION SHOWS PLANTING TO BE APPLIED WHERE TOE WOOD IS USED TO ENCH WITH GRADING OR GEOBAG WALL ON THE K. ECTIONS SHOW NO GRADING OR OTHER F ON PARTS OF THE EXISTING STREAMBANKS JK, LOWER BANK OR BOTH) THEN EXISTING N IS TO REMAIN UNDISTURBED. LIST FOR SPECIES AND SIZE.					360 Interstate North Parkway,	Suite 250	Audrica, GA 30339 Phone - (404) 334-4310 Web - www.freese.com
S SHALL BE TRIMMED TO AVOID RIDGE AND BRANCH COLLAR DS (ONE LATERAL PLUS ONE MINAL) SHALL BE ABOVE THE		N EORK NANCY CREEK STREAMRANK RESTORATION		FROM I-285 TO MURPHEY CANDLER LAKE	CIVIL - DETAILS		DETAILS
	F&N JOB NO.	BGA20127	DATE 07/05/2023	DESIGNED JMM JLJ	DRAWN JMMJPS	REVISED	CHECKED JLJ AILS.dwg
	DATE	1			12/2/2022	09/15/2022	FILE NAME CV-ALL-DET
	BY	<u> </u>			JPS	Sdl	
24 HOUR CONTACT:         CITY OF BROOKHAVEN         PUBLIC WORKS DEPARTMENT         TOM ROBERTS         TOM ROBERTS	NO. LISSUE				$\widehat{arDelta}$ CITY OF BROOKHAVEN LDP REVIEW	DEKALB COUNTY LDP REVIEW	VERIFY SCALE Bar is one inch on original 0 1 drawing. If not one inch on this sheet, adjust scale.
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24 HOUR CONTACT: CITY OF BROOKHAVEN PUBLIC WORKS DEPARTMENT TOM ROBERTS TOM.ROBERTS@BROOKHAVENGA.GOV 404-637-0540

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OF THE VARIOUS SIZES SHALL NOT BE PERMITTED. THE DESIRED DISTRIBUTION OF THE VARIOUS SIZES OF STONES THROUGHOUT THE MASS SHALL BE OBTAINED BY METHODS OF

9. REARRANGE INDIVIDUAL STONES BY MECHANICAL EQUIPMENT OR BY HAND TO THE EXTENT NECESSARY TO OBTAIN A REASONABLY WELL GRADED DISTRIBUTION OF STONE SIZES.

10. MAINTAIN THE MATERIAL PROTECTION UNTIL ACCEPTED AND REPLACE ANY MATERIAL DISPLACED DURING CONSTRUCTION.

11. NON-WOVEN GEOTEXTILE AND CONCRETE ITEMS SHALL MEET GDOT SPECIFICATIONS

ERAS TO PRODUCE A ROCK WITH THE MINIMUM NOHES FROM THE SLOPE LINES HALL DO TO THE SPECIFICAL INFORMATION OF THE SLOPE LINES HALL DO TO SLOPE DUMPING INTO ELY TO CAUSE SEGREGATION INFORMATION OF THE SLOPE LINES HALL DO TO SLOPE DUMPING INTO ELY TO CAUSE SEGREGATION INFORMATION OF THE SPECIFICAL INFORMATION OF THE STORE INFORMATION OF THE ST									_	
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DURSE THICKNESS AT ONE NLY AND CONFORM THE AL POSITION TO THE SPECIFIED REE FROM OBJECTIONABLE STERS OF LARGER STONES. HALL NOT BE PERMITTED. 1 TOP OF SLOPE, DUMPING INTO ELY TO CAUSE SEGREGATION PERMITTED. ARIOUS SIZES OF STONES TAINED BY METHODS OF PECIFIED RESULTS. ECHANICAL EQUIPMENT OR BY OBTAIN A REASONABLY WELL IS. UNTIL ACCEPTED AND URING CONSTRUCTION. ETE ITEMS SHALL MEET GDOT ISSUED FOR PERMIT NOT FOD COUNCTED LOCTION	ER AS TO PRODUCE A ROCK WITH THE MINIMUM	CITY OF BROOKHAVEN	N FORK NANCY CREEK STREAMRANK RESTORATION		FROM I-285 TO MURPHEY CANDLER LAKE				DETAILS	
TALLE NOT DETENDED FOR PERMIT.	OURSE THICKNESS AT ONE NLY AND CONFORM THE AL POSITION TO THE SPECIFIED REE FROM OBJECTIONABLE STERS OF LARGER STONES.	BY DATE F&N JOB NO.	BGA20127	DATE 07/05/2023	DESIGNED JMM JLJ	JPS 12/2/2022 DRAWN JMMJPS	JPS 09/15/2022 REVISED	FILE NAME CHECKED JLJ	CV-ALL-DETAILS.dwg	
ISSUED FOR PERMIT	TALL NOT BE PERMITTED. TOP OF SLOPE, DUMPING INTO ELY TO CAUSE SEGREGATION PERMITTED. ARIOUS SIZES OF STONES TAINED BY METHODS OF PECIFIED RESULTS. ECHANICAL EQUIPMENT OR BY OBTAIN A REASONABLY WELL ES. UNTIL ACCEPTED AND URING CONSTRUCTION.	NO. ISSUE				CITY OF BROOKHAVEN LDP REVIEW	DEKALB COUNTY LDP REVIEW	VERIFY SCALE Bar is one inch on original	this sheet, adjust scale.	
	ETE ITEMS SHALL MEET GDOT ISSUED FOR PERMIT	si Si	HEE EQ.	T	D	∟ <sup>י</sup> T נ9	5		ةة_ ر	

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STREAM CROSSING - PROFILE VIEW NTS

### NOTES:

- 1. CONSTRUCT STREAM CROSSING WHEN FLOW IS LOW.
- 2. HAVE ALL NECESSARY MATERIALS AND EQUIPMENT ON-SITE BEFORE WORK BEGINS.
- MINIMIZE CLEARING AND EXCAVATION OF STREAMBANKS. DO NOT EXCAVATE CHANNEL BOTTOM. 3.
- 4. LINE STREAMBANK AND ACCESS RAMP AREA WITH NON-WOVEN FILTER FABRIC.
- INSTALL STREAM CROSSING AT RIGHT ANGLE TO THE FLOW. THE CROSSING SHALL ALLOW 5. FLOW TO ENTER THE CHANNEL UNIMPEDED.
- 6. MAINTAIN CROSSING SO THAT RUNOFF IN THE CONSTRUCTION ROAD DOES NOT ENTER EXISTING CHANNEL BY INSTALLING SILT FENCE ON ALL FOUR CORNERS ADJACENT TO THE STREAM. SEE SILT FENCE DETAIL.
- 7. STABILIZE AN ACCESS RAMP OF CLASS B STONE TO THE EDGE OF THE MUD MAT.
- THE LOG MAT SHALL BE OF SUFFICIENT SIZE AND WIDTH TO SUPPORT THE LARGEST VEHICLE CROSSING THE CHANNEL. 8.
- 9. CONTRACTOR SHALL DETERMINE AN APPROPRIATE RAMP ANGLE ACCORDING TO EQUIPMENT UTILIZED, RECOMMENDED AT A 5:1 SLOPE.
- 10. FOR REMOVAL OF TEMPORARY IMPACTS, THE FOLLOWING SEQUENCING SHOULD BE OBSERVED: IN ALL FORESTED WETLANDS, CLEARING WILL BE DONE BY HAND & GRUBBING WILL OCCUR
- AS NEEDED TO INSTALL TEMPORARY HAUL ROADS. IMPACTS AT STREAM CROSSING LOCATIONS WILL BE MINIMIZED BY USE OF APPROPRIATE
- EROSION CONTROL & FLOW DIVERSION MEASURES DURING CONSTRUCTION. DIRECT IMPACTS FROM CONSTRUCTION TO THESE FEATURES WILL BE TEMPORARY, & ANY IMPACTED AREAS WILL BE RESTORED TO ORIGINAL GRADE & STABILIZED FOLLOWING CONSTRUCTION. THE CONTRACTOR SHALL LINE THE LOD WITH TREE PROTECTION FENCE TO
- PREVENT THE UNNECESSARY REMOVAL OF VEGETATION. PRIOR TO EXCAVATING IN JURISDICTIONAL STREAMS, RIP-RAP COFFERDAMS WILL BE INSTALLED UPSTREAM & DOWNSTREAM OF THE EXCAVATION AREA TO ISOLATE THE DISTURBED AREA AND CONTAIN SEDIMENT. STREAM FLOW ON THE UPSTREAM SIDE OF THE EXCAVATION WILL BE POOLED ABOVE THE COFFERDAM AND PUMPED AROUND THE EXCAVATION AREA. THE PUMPED WATER WILL BE DISCHARGED ON THE DOWNSTREAM SIDE OF THE EXCAVATION BELOW THE LOWER COFFERDAM THROUGH SEDIMENT BAGS TO FILTER THE DISCHARGE WATER OF SEDIMENT BEFORE ALLOWING THE WATER TO BE RETURNED TO THE STREAM CHANNEL. A COFFERDAM (I.E. IMPERVIOUS DIKE) AND BYPASS PUMP DETAIL IS ATTACHED IN THE DESIGN PLANS ON SHEET ES-13.
- ALL MATERIAL TEMPORARILY SIDE CAST INTO WETLAND AREAS WILL BE PLACED ON FILTER FABRIC
- HAUL ROADS AND OTHER TEMPORARY WORK AREAS WILL BE BACKFILLED AND PROPERLY COMPACTED TO THE ORIGINAL (PRE-CONSTRUCTION) GROUND ELEVATION, AND THE RE-ESTABLISHED GRADE WILL BE STABILIZED WITH A SEED MIX MADE UP OF NATIVE SPECIES APPROPRIATE FOR RESTORATION & STABILIZATION OF WETLAND & UPLAND SOILS.
- TEMPORARY EROSION SEED MIXES WILL ALSO BE USED TO STABILIZE DISTURBED AREAS WITHIN THE REQUIRED STABILIZATION TIME FRAMES. SPECIFICS ABOUT THIS SEED MIX IS INCLUDED IN SPECIFICATION SECTION 6.01 "PERMANENT AND TEMPORARY SEEDING".
- AT COMPLETION OF STREAM CONSTRUCTION ACTIVITIES, ANY GRAVEL AND FILTER MEDIA ON TEMPORARY HAUL ROADS SHALL BE REMOVED AND THE SOILS RIPPED/LOOSENED TO THE DEPTH OF THE COMPACTED LAYER (MINIMUM OF 6-INCHES). AVOID RIPPING IN AREAS THAT HAVE BURIED UTILITIES, WIRES, PIPES, CULVERTS, OR DIVERSION CHANNELS.

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![](_page_19_Figure_22.jpeg)

# SCALE: NTS

![](_page_19_Figure_24.jpeg)

PlanIncludedPage #Y/NES-1YES-1YES-1YCOVERYES-1YES-1YALLY	<ul> <li>TO BE SHOWN ON ES&amp;PC PLAN</li> <li>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. (The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</li> <li>2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&amp;PC Plan or the Plan will not be reviewed)</li> </ul>
Page #     Y/N       ES-1     Y       ES-1     Y       ES-1     Y       COVER     Y       ES-1     Y       ES-1     Y       ALL     Y	<ol> <li>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. (The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</li> <li>Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&amp;PC Plan or the Plan will not be reviewed)</li> </ol>
ES-1 Y ES-1 Y COVER Y ES-1 Y ES-1 Y ALL Y	<ul> <li>of the year in which the land-disturbing activity was permitted.</li> <li>(The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</li> <li>2 Level II certification number issued by the Commission, signature and seal of the certified design professional.</li> <li>(Signature, seal and level II number must be on each sheet pertaining to ES&amp;PC Plan or the Plan will not be reviewed)</li> </ul>
ES-1 Y ES-1 Y COVER Y ES-1 Y ES-1 Y ALL Y	<ul> <li>(The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</li> <li>2 Level II certification number issued by the Commission, signature and seal of the certified design professional.</li> <li>(Signature, seal and level II number must be on each sheet pertaining to ES&amp;PC Plan or the Plan will not be reviewed)</li> <li>2 The name and share number of the 24 hour context means the foremation and in activity and solution and solution.</li> </ul>
ES-1 Y OVER Y ES-1 Y ES-1 Y	(Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
ES-1 Y OVER Y ES-1 Y ES-1 Y ALL Y	2. The next and always much as of the 24 hours and at a second will be an ending and in a station and as little and as
OVER Y ES-1 Y ES-1 Y ALL Y	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
ES-1 Y ES-1 Y ALL Y	4 Provide the name, address, email address, and phone number of primary permittee.
ALL Y	5 Note total and disturbed acreages of the project or phase under construction. 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in
ALL Y	decimal degrees.
	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ES-1 Y	8 Descriptions of the nature of construction activity and existing site conditions.
	<ul> <li>9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, it necessary.</li> <li>10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas.</li> </ul>
	<ul> <li>wetlands, marshlands, etc. which may be affected.</li> <li>11 Decign professional's contification statement and signature that the site was visited prior to development of the ESSPC.</li> </ul>
	Plan as stated on <b>Part IV page 21</b> of the permit.
ES-1 Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate
<u>-</u> S-1 v	and comprehensive system of BMPs and sampling to meet permit requirements as stated on <b>Part IV page 20</b> of the permit.
	sampling as stated on <b>Part IV.D.6.c.(3) page 37</b> of the permit as applicable. *
ES-1 Y	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 <b>Part IV.A.5 page 26</b> of the permit. *
ES-1 Y	15 Clearly note the statement that "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 normits."
ES-1 Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ES-2 Y	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." *
:5-1 Y	Section 404 permit." *
S-1 Y	19 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 land disturbing activities."
S-1 Y	20 Clearly note statement that "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."
ES-1 Y	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."
S-12 Y	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 a 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 *
ES-1 Y	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 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. *
ES-1 Y	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. *
ES-1 Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
ES-1 Y	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. *
ES-1 Y	27 Description of practices to provide cover for building materials and building products on site. *
ES-1 Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. $*$
ES-1 Y	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).
S-1 Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
S-2 Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
S-2 Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
S-2 Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
-3-2 Υ S-2 Υ	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 representative sampling as applicable. *
<u> </u>	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 and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ALL Y	<ul><li>37 Graphic scale and North arrow.</li><li>38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:</li></ul>
	Existing Contours USGS 1": 2000' Topographical Sheets
N/A N/A	Proposed Contours       1": 400" Centerline Profile         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 GAEPD or the Georgia Soil and Water Conservation
N/A N/A	Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. 40 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 2016 Edition. *
	required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

ES-2	N/A	46 Storm-drain pipe and weir velocities with appropriate ou Identify/Delineate all storm water discharge points
ES-12	Y	47 Soil series for the project site and their delineation.
ALL	Y	48 The limits of disturbance for each phase of construction
ES-2	Y	49 Provide a minimum of 67 cubic yards of sediment stora retrofitted detention pond, and/or excavated inlet sedim volume must be in place prior to and during all land dist achieved. A written justification explaining the decision must be included in the Plan for each common drainag justification as to why 67 cubic yards of storage is not a included for structural BMPs and all calculations used b when using equivalent controls. When discharging from utilize outlet structures that withdraw water from the su the surface are not feasible, a written justification expla
ALL	Y	50 Location of Best Management Practices that are consis Sediment Control in Georgia. Use uniform coding sym
ES-9 → ES-11	Y	51 Provide detailed drawings for all structural practices. Sl the Manual for Erosion and Sediment Control in Georgi
ALL	Y	52 Provide vegetative plan, noting all temporary and perm

will take place and for the appropriate geographic region of Georgia. \* If using this checklist for a project that is less than 1 acre and not part of a common development

but within 200 ft of a perennial stream, the \* checklist items would be N/A.

**EROSION CONTROL CERTIFICATION** 

ALL

ES-2

ES-2

ES-2

Y

Y

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.

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 AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA 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. GAR 100002.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILITIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO GAR1000002, THAT THE INCREASE IN THE TURBIDITY OF EACH IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

JOHN P. SCHNEIDER, P.E. LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000094149

# **ES&PC PLAN GENERAL NOTES**

- 1. THE TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 4.3 ACRES. THIS SITE IS LOCATED AT 33.9190, -84.3281.
- 2. THE CONSTRUCTION ENTRANCES/EXITS FOR THE SITE, AS WELL AS LATITUDE AND LONGITUDE COORDINATES, ARE SHOWN ON THE PLAN SHEETS.
- 3. THIS CONSTRUCTION ACTIVITY INVOLVES RESTORATION OF THE STREAM BETWEEN I-285 AND MURPHEY CANDLER LAKE. THIS WORK INCLUDES INSTALLATION OF TOE PROTECTION AND VARIOUS IN-CHANNEL STRUCTURES THAT WILL HELP IMPROVE AQUATIC HABITAT, REDUCE IN-CHANNEL EROSION, AND IMPROVE WATER QUALITY. THE PROJECT IS LOCATED UPSTREAM OF MURPHEY CANDLER LAKE. THE PROJECT'S RECEIVING WATERS ARE NORTH FORK NANCY CREEK. THE CONFLUENCE WITH MURPHEY CANDLER LAKE IS LOCATED IMMEDIATELY DOWNSTREAM OF THE PROJECT AREA. NO ADDITIONAL SENSITIVE ADJACENT AREAS ARE KNOWN TO EXIST.
- 4. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE PERIMETER BMPS WITHIN 7-DAYS AFTER INSTALLATION. 5. THE PERMITEE'S ES&PC PLAN PROVIDES FOR REPRESENTATIVE SAMPLING, AS STATED IN
- PART IV.D.6.c (PAGE 37) OF THE PERMIT AS APPLICABLE.
- 6. NON-EXEMPT ACTIVITES 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.
- 7. A BUFFER VARIANCE IS REQUIRED DUE TO THE NATURE OF THE PROJECT BEING STREAM RESTORATION. THIS PROJECT IMPACTS THE 25' STATE BUFFER THEREFORE A STATE STREAM BUFFER VARIANCE IS REQUIRED FROM EPD. HOWEVER, A STREAM BUFFER VARIANCE IS NOT REQUIRED FROM THE CITY DUE TO THE NATURE OF THE PROJECT BEING STREAM **RESTORATION.**
- 8. WASTE MATERIALS, INCLUDING SOLID AND BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT
- 9. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO ANY DISTURBING ACTIVITIES.

s/ES PM

42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

- 43 Delineation and acreage of contributing drainage basins on the project site.
- 44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets. 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.

- rage per acre drained using a temporary sediment basin nent traps for each common drainage location. Sediment storage turbance activities until final stabilization of the site has been n to use equivalent controls when a sediment basin is not attainable ge location in which a sediment basin is not provided. A written attainable must also be given. Worksheets from the Manual must be by the design professional to obtain the required sediment storage sediment basins and impoundments, permittees are required to urface, unless infeasible. If outlet structures that withdraw water from
- ining this decision must be included in the Plan. istent with and no less stringent than the Manual for Erosion and nbols from the Manual, Chapter 6, with legend.
- pecifications must, at a minimum, meet the guidelines set forth in
- 52 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

Effective January 1, 2023

•		GEORGIA SOIL AND WATER Conservation Commission
	JOHN P	. SCHNEIDER
	Level II Certified	Design Professional
	CERTIFICATION NUMBER	0000094149
	ISSUED: 04/27/2021	EXPIRES: 04/27/2024

- 10. 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.
- 11. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING.
- 12. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- 13. MEASURES TO BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED INCLUDE STREAM BUFFER PRESERVATION AND PLANTING AND STABILIZATION OF STEEP SLOPES AS NEEDED.
- 14. SEVEN (7) TYPES OF EROSION CONTROL MEASURES WILL BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGES.
- SILT FENCE TYPE NON-SENSITIVE (SD1-NS) SHALL BE INSTALLED AT APPROPRIATE LOCATIONS TO PREVENT SEDIMENT FROM ESCAPING THE SITE.
- MULCHING, TEMPORARY AND PERMANENT GRASSING (DS1, DS2 & DS3) SHALL BE USED TO RE-ESTABLISH VEGETATION ON THE DISTURBED AREAS AS CONSTRUCTION PROCEEDS.
- TWO (2) CONSTRUCTION EXITS (CO) WILL BE USED TO PREVENT SEDIMENT FROM LEAVING THE SITE VIA THE TIRES OF TRUCKS AND CONSTRUCTION EQUIPMENT. LOCATIONS ARE AT LAT: 33.9189, LONG: -84.3285 AND LAT: 33.9155, LONG: -84.3249.
- TREE PROTECTION (TR) WILL BE INSTALLED TO PRESERVE EXISTING TREES TO THE MAXIMUM EXTENT PRACTICABLE.
- A SEDIMENT BAG WILL BE USED TO FILTER WATER THAT IS REMOVED FROM THE CHANNEL DURING CONSTRUCTION
- TURBIDITY CURTAIN (Tc) WILL BE USED TO MINIMIZE SILT MIGRATION FROM WORK OCCURRING WITHIN THE WATER.
- CONSTRUCTION ROAD STABILIZATION (Cr) WILL BE USED AS A HAUL ROAD TO PROVIDE A FIXED ROUTE OF TRAVEL FOR CONSTRUCTION TRAFFIC BETWEEN TIME OF INITIAL GRADING AND FINAL STABILIZATION.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A CONSTRUCTION SCHEDULE. A COPY OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT SITE. THE MAJOR SEQUENCE OF ACTIVITIES AS THEY RELATED TO THE ES&CP ARE:
- PHASE 1 DEMOLITION AND CLEARING. THE CONTRACTOR SHALL INSTALL SILT FENCING AND TREE PROTECTION AS REQUIRED BEFORE THE START OF ANY LAND DISTURBING ACTIVITY.
- PHASE 2 GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN BMPS AS NEEDED. IF A BMP IS REMOVED DUE TO CHANGING SITE CONDITIONS, IT SHALL BE REPLACED WITH ANOTHER MEASURE TO CONTROL AND PREVENT SEDIMENT FROM LEAVING THE SITE. DUE TO THE NATURE OF THIS PROJECT BEING LINEAR, ACTIVE LAND DISTURBING ACTIVITY WILL BE LIMITED TO NO MORE THAN 1 ACRE AT ANY GIVEN TIME.
- PHASE 3 FINISH GRADING AND LANDSCAPING. ALL FACILITIES FROM PHASE 1 AND PHASE 2 WILL BE MAINTAINED AS APPROPRIATE AND REMOVED WHEN THE NEED NO LONGER EXISTS. ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE ALL ACCUMULATED SILT. REFER TO DETAIL SHEETS FOR LANDSCAPING AND PLANTING INSTALLATION REQUIREMENTS.

CONSTRUCTION SCHEDULE									
ACTIVITY	MONTH								
	1 2 3								
INSTALLATION OF EROSION CONTROL									
MAINTENANCE OF EROSION CONTROL									
INSTALLATION OF IN STREAM STRUCTURES									
TEMPORARY AND PERMANENT PLANTING									
CLEAN-UP									

CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN OCTOBER 2023. IMPAIRED STREAM SEGMENT CONSIDERATIONS

- 1. NANCY CREEK (HEADWATERS TO PEACHTREE CREEK) IN DEKALB AND FULTON COUNTIES HAS BEEN IDENTIFIED AS AN IMPAIRED STREAM NOT SUPPORTING ITS DESIGNATED USE IN THE GEORGIA 2020 305(b)/303(d) LIST DOCUMENTS (FINAL) AND HAS BEEN LISTED FOR THE CRITERIA VIOLATED, FECAL COLIFORM AND IMPAIRED FISH COMMUNITY (BIO F). THE PROPOSED PROJECT WILL HAVE NO ADVERSE IMPACTS RELATIVE TO THE POLLUTANTS OF CONCERN.
- TMDL IMPLEMENTATION PLANS FOR FECAL COLIFORM AND SEDIMENT (BIOTA IMPACTED) WERE FINALIZED IN NOVEMBER 2008 AND JANUARY 2008, RESPECTIVELY. COMPLIANCE WITH THE GEORGIA EROSION AND SEDIMENTATION ACT (GESA) WILL ENSURE THAT POLLUTANT LOADINGS FROM THE CONSTRUCTION SITE WILL BE AT OR BELOW APPLICABLE TARGETS FOR THE POLLUTANTS OF CONCERN.
- 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. THE PROJECT SITE IS LOCATED ON A STREAM SEGMENT THAT IS IMPAIRED, AS LISTED ON THE 2020 303(d) LIST PROVIDED BY THE GA ENVIRONMENTAL PROTECTION DIVISION. THE BMPS THAT WILL BE USED FOR THE SITE WHICH DISCHARGES TO THE IMPAIRED STREAM SEGMENT, AS LISTED IN APPENDIX 1 (APPENDED TO THE PLANS) OF THE CHECKLIST, ARE AS FOLLOWS:
- d. A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A PUBLIC ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) THE CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) ALONG WITH THEIR TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN E VIEWED. THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE VAILABLE ON THE PROVIDED WEBSITE UNTIL A NOT HAS BEEN SUBMITTED.
- e. USE FLOCCULANTS OR COAGULANTS AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE CURRENT NPDES PERMIT.
- I. LIMIT THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME TO NO GREATER THAN 25

**INSPECTIONS** 

![](_page_20_Picture_81.jpeg)

NOT FOR CONSTRUCTION

### INSPECTIONS CONT'D

- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST TWICE EVERY SEVEN (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 MEASURES 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. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 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).
- 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. 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 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 REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH THIS PERMIT.

### SAMPLING REQUIREMENTS

THE PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THE PERMIT. RECEIVING WATER SAMPLES AND STORM WATER DISCHARGE SAMPLES WILL BE COLLECTED BY GRAB SAMPLES AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES SPECIFIED BY THE PERMIT. THE FREQUENCY OF SAMPLING WILL BE AS DESCRIBED IN THE FOLLOWING SECTION. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED BELOW WILL BE REPORTED TO THE EPD. SAMPLE CONTAINERS WILL BE LABELED BEFORE COLLECTING SAMPLES.

- 2. SAMPLES WILL BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- CLEAN GLASS OR PLASTIC JARS WITH LARGE MOUTHS WILL BE USED TO COLLECT SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- MANUAL, AUTOMATIC OR RINSING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THE PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALL BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD.

### SAMPLING POINTS

THE CONTRACTOR WILL SAMPLE AT THE LOCATIONS LISTED BELOW. THE PLAN SHEETS WITHIN THESE CONSTRUCTION PLANS SHOW THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED.

			Note: The	e Total Site A	rea is 6.2	1 acres.					Rep	resentati	ve Sampl	ing Scher	ne
			SA	MPLING INFO	ORMATIO	Ν					0	UTFALL C	HARACT	ERISTICS	
Primary Sampled Feature	Location	Name of Receiving Water	Applicable Constructi on Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainag e Area for Receivin g Water (mi2)	Upstrea m Disturb ed Area (acres)	Warm or Cold Water Stream	Append ix B NTU Value (Outfall Samplin g only)	Allowabl e NTU Increase (Receivin g water sampling only)	Location Descripti on	Constructi on Activity	Disturb ed Area (acres)	Averag e Outfall Slope (rise/ru n)	Soil Erosion Index	Represen ted Outfall Drainage Basins
1	Lat: 33.9199 Long: -84.3279	North Fork Nancy Creek	All	Receiving Water	1.39	0	Warm	N/A	75	Upstrea m	Stream Restoration	N/A	N/A	N/A	N/A
2	Lat: 33.9146 Long: -84.3260	North Fork Nancy Creek	All	Receiving Water	1.86	6.21	Warm	N/A	75	Downstre am	Stream Restoration	N/A	N/A	N/A	N/A

IT SHOULD BE NOTED THAT ALL OF THE ABOVE SAMPLING LOCATIONS MAY NOT BE ACTIVE AT ALL TIMES DURING CONSTRUCTION. A SAMPLING LOCATION WILL BE ACTIVE FROM THE TIME CONSTRUCTION ACTIVITY STARTS IN THE WATERSHED THAT FEEDS THE SAMPLING LOCATION UNTIL FINAL STABILIZATION IS ACHIEVED IN THAT WATERSHED. THE TIMING OF THE CONSTRUCTION ACTIVITY WITHIN A WATERSHED DEPENDS ON CONSTRUCTION STAGING. HOWEVER, CONSTRUCTION STAGING HAS NOT YET BEEN DETERMINED. THE CONTRACTOR MAY STAGE THE CONSTRUCTION SO THAT 1) CONSTRUCTION BEGINS AT ONE END OF THE PROJECT AND PROGRESSES SYSTEMATICALLY TO THE OTHER END; 2) CONSTRUCTION BEGINS AT BOTH ENDS OF THE PROJECT AND PROGRESSES TO A COMMON MEETING POINT; OR 3) MULTIPLE CREWS BEGIN CONSTRUCTION AT DIFFERENT SECTIONS OF THE PROJECT AND EVENTUALLY LINK UP WITH EACH OTHER. NTU LIMIT RATIONAL

THE CONTRACTOR SHALL SAMPLE THE RECEIVING STREAM ALL UPSTREAM & DOWNSTREAM

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SAMPLE LOCATIONS OF THE PROJECT AREA. RECEIVING WATERS OF THE PROJECT ARE DEFINED AS WARM WATER FISHERIES AND THEREFORE THE TOTAL INCREASE IN TURBIDITY FROM SAMPLE LOCATIONS UPSTREAM AND DOWNSTREAM OF THE CONSTRUCTION SITE SHALL NOT EXCEED 75 NTU. CONSTRUCTION SITE LIMITS OF DISTURBANCE TOTAL 4.3 ACRES AND THE CONTRIBUTING DRAINAGE AREA WAS ESTIMATED USING USGS STREAMSTATS WEB APPLICATION (https://streamstats.usgs.gov/ss/).

### MANUAL SAMPLING

- SAMPLING WILL BEGIN AT THE DESIGNATED REPRESENTATIVE RECEIVING WATER(S) AT THE DOWNSTREAM LOCATION. THIS SAMPLE WILL BE TAKEN AT THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PROJECT. FOR LARGE STREAMS WHERE VARIATIONS IN COLOR ARE VISIBLE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES MAY BE USED FOR THE DOWNSTREAM VALUE.
- UPSTREAM SAMPLES WILL BE TAKEN AFTER DOWNSTREAM SAMPLES HAVE BEEN ACQUIRED. THE UPSTREAM SAMPLE WILL BE TAKEN AT THE DISCHARGE FARTHEST UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PROJECT. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES MAY BE USED FOR THE UPSTREAM VALUE.
- THE SAMPLES WILL BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).CARE WILL BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
- THE SAMPLING CONTAINER WILL BE HELD SO THAT THE OPENING FACES UPSTREAM.
- THE SAMPLES WILL BE KEPT FREE OF FLOATING DEBRIS.
- ONCE THE SAMPLE JAR OR BOTTLE IS FULL AND CAPPED, IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY, BUT NO LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.

### SAMPLING FREQUENCY (PER PART IV.D)

THE CONTRACTOR MUST SAMPLE IN ACCORDANCE WITH THIS ES&PCP AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW:

- 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 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NONWORKING 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;
- IN ADDITION TO ITEM (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A b. 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 ITEMS 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 BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 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.
- d. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY(B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.
- EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

\*NOTE THAT THE CONTRACTOR 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.

### RAINFALL DATA

MEASUREMENT OF RAINFALL DATA WILL BE RECORDED DAILY (ONCE DURING EACH 24-HOUR PERIOD) AT THE DOWNSTREAM MONITORING POINT FOR EACH ACTIVE CONSTRUCTION STAGE IN WHICH STREAM MONITORING IS UTILIZED AND NEAR THE CENTER OF EACH ACTIVE CONSTRUCTION STAGE IN WHICH OUTFALL MONITORING IS UTILIZED. THE CONTRACTOR WILL ESTABLISH A RAIN GAUGE ON EACH ACTIVE CONSTRUCTION STAGE FOR THIS PURPOSE. FURTHERMORE, THE CONTRACTOR WILL COLLECT AND RECORD THE RAINFALL DATA ON THE DAILY RAINFALL MONITORING DATA FORM. TESTING

THE CONTRACTOR WILL EMPLOY QUALIFIED PERSONNEL WHO SHALL GATHER SAMPLES OF STORM WATER AS OUTLINED IN THE PERMIT PART IV, D.5 AND AS FURTHER DEFINED IN THIS ESPCP. THE CONTRACTOR WILL HAVE THE TURBIDITY OF EACH SAMPLE TESTED BY A QUAILIFIED TESTING LABORATORY. ALL TURBIDITY TESTS WILL BE CONDUCTED IN ACCORDANCE WITH 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. REPORTING (PER PART IV.E.)

- THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING 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 STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST B 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
- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- THE DATE(S) ANALYSES WERE PERFORMED;
- THE TIME(S) ANALYSES WERE INITIATED;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
- RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED PER THE PLAN.
- 3. 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.

# RETENTION OF RECORDS

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 NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH:

- a. A COPY OF ALL NOTICES OF INTENT (NOI) 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.

COPIES OF ALL NOI, NOT, 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 NOI TO BE COVERED BY THIS 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.

# REPORT SUBMITTAL

ALL WRITTEN CORRESPONDENCE REQUIRED BY THE 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 THE PERMIT. COPIES OF THE DATA SENT TO GEORGIA EPD, INCLUDING THE RETURN RECEIPTS, WILL BE PROVIDED TO THE OWNER AND THE ENGINEER ON A MONTHLY BASIS.

# OTHER NOTES

1. THE ESTIMATED DRAINAGE AREA TO THE PROJECT SITE IS 1.86 SQ MI. THE DELINEATION IS SHOWN BELOW.

![](_page_21_Figure_76.jpeg)

- 2. THE ESTIMATED RUNOFF COEFFICIENT OF THE SITE IS 70, WHICH CORRESPONDS TO TR-55 "WOODS GOOD" FOR TYPE C SOILS. NO CHANGE IN RUNOFF COEFFICIENT WILL RESULT FROM THE PROJECT, AS NO ADDITIONAL IMPERVIOUS AREA IS PROPOSED.
- 3. STORM-DRAIN PIPE AND WEIR VELOCITIES ARE NOT PROVIDED BECAUSE THERE ARE NO STORMWATER DISCHARGE POINTS.
- 4. THE SOIL SERIES DATA ARE AVAILABLE ONLINE AT HTTP://WEBSOILSURVEY.NRCS.USDA.GOV. SOIL MAP AND INFORMATION ARE PROVIDED AS EXHIBIT Z AND TABLE Z ON PAGE ES-10.
- 5. NO SEDIMENT BASINS ARE NEEDED FOR THIS PROJECT. LAND DISTURBING ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION AND REMOVAL OF A SEDIMENT BASIN WOULD CAUSE ADDITIONAL ADVERSE IMPACTS TO THE EXISTING STREAM.
- 6. THE SYMBOLS REFERED TO IN THE PLAN REFERENCE THE GEORGIA UNIFORM CODING SYSTEM PER THE LATEST EDITION MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (CURRENTLY 2016 EDITION).
- 7. THE SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS TO ENSURE THEIR INTENDED PURPOSES ARE ACCOMPLISHED. MAJOR MODIFICATION OF THE PLAN OR DELETION OF SPECIFIED BMPS WILL REQUIRE A FORMAL REVISION OF THE ES&PC PLAN AND THE SIGNATURE OF A GSWCC LEVEL II DESIGN PROFESSIONAL. ADDITIONAL BMPS MAY BE ADDED AS DIRECTED BY THE ENGINEER.
- 8. SILT FENCE SHOULD NEVER RUN CONTINOUSLY WITHOUT J-HOOKS OR SPURS. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THE J-HOOKS OR

9. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED. DISTURBED SOILS SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.

10. LOCATE WASTE COLLECTION AREAS, DUMPSTERS, TRASH CANS, AND PORTABLE TOILETS SHALL BE AT LEAST 50 FEET AWAY FROM STREETS, GUTTERS, WATERCOURSES, AND STORM DRAINS.THE CONTRACTOR SHALL COMPLY WITH STATE AND/OR LOCAL REGULATIONS RELATED TO WASTE DISPOSAL AND/OR ACTIVITIES RELATED TO SANITARY SEWERS.

11. THE CONSTRUCTION ENTRANCES/EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

12. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

13. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.

14. WHENEVER THE DEPARTMENT FINDS THAT A BMP HAS FAILED OR IS DEFICIENT BEYOND ROUTINE MAINTENANCE AND HAS RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO ADDRESS THE CONDITION, INCLUDING CLEANING UP ANY CONTAMINATED SURFACES SO THE MATERIAL WILL NOT DISCHARGE IN SUBSEQUENT STORM EVENTS. WHEN THE REPAIR DOES NOT REQUIRE A NEW OR REPLACEMENT BMP OR SIGNIFICANT REPAIR, THE BMP FAILURE OR DEFICIENCY MUST BE CORRECTED BY THE CLOSE OF THE NEXT BUSINESS DAY FROM THE TIME OF DISCOVERY. A REPAIR REQUIRING A NEW OR REPLACEMENT BMP OR SIGNIFICANT REPAIR MUST BE OPERATIONAL BY NO LATER THAN 7 DAYS FROM THE TIME OF DISCOVERY. IF THE REPAIR TIME WITHIN 7 DAYS IS INFEASIBLE, THE CONTRACTOR AND THE CITY SHALL SCHEDULE THE BMP REPAIR TO BE OPERATIONAL AS SOON AS PRACTICAL AFTER THE 7 DAY TIME FRAME.

15. ALL MULCHES AND SOIL COVERINGS SHALL BE INSPECTED PERIODICALLY (PARTICULARLY AFTER RAIN EVENTS) BY THE CONTRACTOR. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH SHALL BE APPLIED. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. A TWO-INCH LAYER OF MULCH AND MYCORRHIZAE FUNGI SHALL BE APPLIED OVER THE CRITICAL ROOT ZONE OF TREES THAT ARE IMPACTED BETWEEN 1 AND 20 PERCENT PRIOR TO CONSTRUCTION.

16. SLOPES 3:1 OR STEEPER THAN 3:1 SHALL REQUIRE MATTING TO AID IN THE ESTABLISHMENT OF A VEGETATIVE COVER. THEY SHALL BE INSPECTED PERIODICALLY, ESPECIALLY AFTER RAIN EVENTS, FOR EROSION AND UNDERMINING. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL WHICH TIME THEY BECOME PERMANENTLY STABILIZED.

17. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.

18. A CHECK DAM SHALL BE USED WITHIN THE CREEK TO PROVIDE A DRY WORK AREA FOR TEMPORARY CONSTRUCTION ACTIVITIES AND TO CONTAIN DISTURBED SOIL AND/OR SUSPENDED SEDIMENTS, PER GDOT DETAIL D-56.

19. ALL TREES ON SITE GREATER THAN 6" AND MARKED AS A "LEAVE TREE" SHALL BE PROTECTED FROM DAMAGE USING A TREE PROTECTION FENCE. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

20. NO PARKING, STORAGE, EQUIPMENT TRACKING, OR OTHER SOIL COMPACTION ACTIVITIES ARE TO OCCUR UNDER THE DRIPLINE OF TREES IN THE PROJECT AREA, UNLESS OTHERWISE NOTED. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

21. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE STAKED. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

22. THE PRIMARY PERMITEE SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE BUT IF IT HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT THEN MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

NAME : TOM ROBERTS PHONE: 404-637-0540 EMAIL: TOM.ROBERTS@BROOKHAVENGA.GOV GEORGIA SOIL AND WATER

<u>GSWCC</u> **JOHN P. SCHNEIDER** 

Level II Certified Design Professional CERTIFICATION NUMBER 0000094149 ISSUED: 04/27/2021 EXPIRES: 04/27/2024

SPURS SHALL BE SPACED IN ACCORDANCE WITH THE TYPICAL LOCATION DETAILS FOR SILT FENCE/BALED STRAW. SPACING FOR J-HOOKS OR SPURS SHALL NOT BE LESS THAN 50 FEE EXCEPT AS NOTED. SILT FENCES THAT ARE NEAR THE OUTLET OF CULVERTS OR STORM DRAINS SHALL HAVE A MINIMUM OF 3 J-HOOKS OR SPURS ON BOTH SIDES OF THE STRUCTURE AT A SPACING THAT SHALL NOT EXCEED 30 FEET. J-HOOKS OR SPURS SHALL B PAID FOR AS SILT FENCE ITEMS PER FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN THE COST OF INSTALLING AND MAINTAINING THE SILT FENCE. THE SILT FENCING SHOULD BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER. REFER TO GDOT DETAIL D-51.

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Know what's **below**. **Call** before you dig.

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Georgia Kegistered Engineering Firm PEF-UU4433 Expires 6/30/2024		PORG.	CO REGISTEREE T	John Schneider	PROFESSIONAL X	COST TO COST	THITTID SCHER		
			FREESE		360 Interstate North Parkway,	Suite 250	Atlanta, GA 30339 Phone - (404) 334-4310	Web - www.freese.com	
	CITY OF BROOKHAVEN	N FORK NANCY CREEK STREAMRANK RESTORATION		FROM I-285 TO MURPHEY CANDLER LAKE	F&SC			EROSION CONTROL NOTES II	
	TE F&N JOB NO.	BGA20127	DATE 12/2/2022	DESIGNED JLJ	2022 DRAWN JPS	/2022 REVISED	ME CHECKED RCE	DTES.dwg	
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HORIZONTAL

- 1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- 2. ALL TREES ON THE SITE GREATER THAN 6" DBH AND NOT MARKED AS REMOVED ON THE TREE PLAN SHALL B PROTECTED USING TREE PROTECTION FENCING AND THE DESIGNATED TREE PRESCRIPTION, PER ES-11. REFER TO SUPPLEMENTAL TREE PLAN.
- 3. INSTALL EROSION CONTROL MATS ON ALL SLOPES STEEPER THAN 2.5:1 OR GREATER THAN 10 FEET IN HEIGHT IN AREAS OF CONCENTRATED FLOW.
- 4. A TURBIDITY CURTAIN SHALL BE USED DOWNSTREAM OF ACTIVE CHANNEL DISTURBING ACTIVITY, PER GDOT DETAIL D-51, IN CONJUNCTION WITH A PUMPED DIVERSION. BOTH CAN BE MOVED AS CONSTRUCTION SEQUENCING WARRANTS.
- 5. WETLANDS TO BE RESTORED WITH NATIVE PLANTINGS AND ANY TEMPORARY FILLS REMOVED TO RE-ESTABLISH WETLAND ELEVATIONS TO PRE-CONSTRUCTION CONTOURS, SEE PLANTING PLAN FOR MORE DETAILS.

FREESE **SNICHOLS** 

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- 6. NO MACHINE TRENCHING THROUGH CRITICAL ROOT ZONE (CRZ). HAND-DIG WHERE SILT FENCE CROSSES THE CRZ OF ANY TREE. ROOT PRUNE AS NEEDED ACCORDING TO ISA/ANSI PROFESSIONAL STANDARDS.
- 7. HAUL RD SHALL BE CONSTRUCTED PER THE GSWCC REQUIREMENTS FOR CONSTRUCTION ROAD STABILIZATION.
- 8. MATERIAL STORAGE OR CONSTRUCTION LAYOUT CAN TAKE PLACE IN THE LOCATION OF THE EXISTING SANITARY SEWER EASEMENT. MATERIAL PILES SHALL BE SURROUNDED BY SILT FENCING AND COVERED AT END OF DAY AND WHEN ACCESS IS NOT ACTIVELY NEEDED.
- 9. ALL MATERIALS STORED IN FLOODPLAIN WILL BE ANCHORED TO PREVENT FLOTATION.
- 10.PLYW INCH AND

SURROUNDED BY DAY AND WHEN A 9. ALL MATERIALS ANCHORED TO PF 10.PLYWOOD AND/C INCHES OF WOO AND IN AREAS WI	SILT FENC ACCESS IS N STORED REVENT FLC DR GROUNE DD CHIPS S HERE THE C DD DD DS1 0D DS1 0D DS1 0D Co Co Co Co Co Co Co	ING ANI IOT ACTI IN FL DTATION D PROTE SHALL BI CRZ MAY EXIS <sup>7</sup> SUR APP 100- LIMI DIST ERO (SEE SILT ROC TRE (SEE CON STA TUF (SEE	D COVERED VELY NEEDE LOODPLAIN CTION MAT E PLACED C BE IMPACT TING WETL VEYED TREE ENDED TREE ENDED TREE SION CONTI TORBED ARE SION CONTI E NOTE 3) FENCE - TYP K FILTER DA E PROTECTION STRUCTION BILIZATION RBIDITY CUR E NOTE 5)	AT END OF D. WILL BE S OVER 4-5 ON ROUTES ED. AND S (REFER TO E PLAN) DPLAIN EXTEN IRBANCE A - MULCH ROL MATS PE S M DN I EXIT ROAD I EXIT ROAD TAIN - STAKE	NTS	CITY OF BROOKHAVEN	N.FORK NANCY CREEK STREAMBANK RESTORATIOI		FRUM I-285 IU MURPHEY CANDLER LARE	E&SC			SIARI IO SIA 14+00 - PHASE I & II	
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![](_page_25_Figure_0.jpeg)

### NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- 2. ALL TREES ON THE SITE GREATER THAN 6" DBH AND NOT MARKED AS REMOVED ON THE TREE PLAN SHALL BE PROTECTED USING TREE PROTECTION FENCING AND THE DESIGNATED TREE PRESCRIPTION, PER ES-11. REFER TO SUPPLEMENTAL TREE PLAN.
- 3. INSTALL EROSION CONTROL MATS ON ALL SLOPES STEEPER THAN 2.5:1 OR GREATER THAN 10 FEET IN HEIGHT IN AREAS OF CONCENTRATED FLOW.
- 4. A TURBIDITY CURTAIN SHALL BE USED DOWNSTREAM OF ACTIVE CHANNEL DISTURBING ACTIVITY, PER GDOT DETAIL D-51, IN CONJUNCTION WITH A PUMPED DIVERSION. BOTH CAN BE MOVED AS CONSTRUCTION SEQUENCING WARRANTS.
- 5. WETLANDS TO BE RESTORED WITH NATIVE PLANTINGS AND ANY TEMPORARY FILLS REMOVED TO RE-ESTABLISH WETLAND ELEVATIONS TO PRE-CONSTRUCTION CONTOURS, SEE PLANTING PLAN FOR MORE DETAILS.
- 6. NO MACHINE TRENCHING THROUGH CRITICAL ROOT ZONE (CRZ). HAND-DIG WHERE SILT FENCE CROSSES THE CRZ OF ANY TREE. ROOT PRUNE AS NEEDED ACCORDING TO ISA/ANSI PROFESSIONAL STANDARDS.
- 7. HAUL RD SHALL BE CONSTRUCTED PER THE GSWCC REQUIREMENTS FOR CONSTRUCTION ROAD STABILIZATION.
- 8. MATERIAL STORAGE OR CONSTRUCTION LAYOUT CAN TAKE PLACE IN THE LOCATION OF THE EXISTING SANITARY SEWER EASEMENT. MATERIAL PILES SHALL BE SURROUNDED BY SILT FENCING AND COVERED WHEN ACCESS IS NOT ACTIVELY NEEDED. AND OVERNIGHT.
- 9. ALL MATERIALS STORED IN FLOODPLAIN WILL BE ANCHORED TO PREVENT FLOTATION.
- 10.ALL WOOD CHIPS USED FOR HAUL ROAD AND/OR STORED ON SITE SHALL BE SPREAD AROUND THE SITE OR HAULED AWAY.
- 11.PLYWOOD AND/OR GROUND PROTECTION MATS OVER 4-5 INCHES OF WOOD CHIPS SHALL BE PLACED ON ROUTES AND IN AREAS WHERE THE CRZ MAY BE IMPACTED.

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Ds1	DISTURBED AREA - MULCH	DF BR	- ビー - ビー 
· ©	d1-S SILT FENCE - TYPE S		
	ROCK FILTER DAM		, r Ż
	TREE PROTECTION (SEE NOTE 2)		ノ L _ ( 、 (
Ca	CONSTRUCTION EXIT		ノ、 フ・ フ・
Sr-	B TEMP. STREAM CROSSING		
Cr	CONSTRUCTION ROAD STABILIZATION		
To	TURBIDITY CURTAIN - STAKED (SEE NOTE 5)		
	SURVEYED TREES (REFER TO APPENDED TREE PLAN)	20127 N	/2022
y , y y ,	EXISTING WETLAND	F&N JOB NO. BGA2	DATE 12/2,
	24 HOUR CONTACT:	DATE	
	TOM ROBERTS	2	
	NAME		
	404-637-0540		
	PHONE		
	TOM.ROBERTS@BROOKHAVENGA.GOV		
	EMAIL		
	JOHN P. SCHNEIDER		
	Certification Number0000094149	ISSUE	
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FREESE **SNICHOLS** Ζ TIO \_ TORA<sup>-</sup> LAKE Ø \_\_\_\_ SE RS<sup>-</sup>ER 4 Т  $\square$ Δ Ζ 1 < 2  $\succ$ 1 I URP PIL  $\mathbf{\Sigma}$  $\geq$  $\cup$ 0  $\frown$ S ৵  $\infty$  $\sim$ (J  $\geq$ 4 S S  $\square$ JLJPS RCE ES-6

> APPROVED PLAN 10/17/2023 Permit # LDP22-00016

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![](_page_28_Picture_3.jpeg)

APPROVED PLAN 10/17/202

![](_page_29_Figure_1.jpeg)

- THE ABOVE DETAIL IS THE STANDARD CITY OF BROOKHAVEN TREE PROTECTION DETAIL. REFER TO THE DETAIL TO THE RIGHT FOR THE GSWCC ALTERNATE. 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY

Crown drip line or other limit of Tree Protection area. See

tree preservation plan for fence alignment.

1- See specifications for additional tree

2- If there is no existing irrigation, see specifications for watering requirements.

3- No pruning shall be performed except

4- No equipment shall operate inside the protective fencing including during fence

> Tree Protection fence: minimum height 5' chainlink

or barred fencing.

no gaps, stabilized

All panels bound

at base.

– 2" thick

- Metal Fence.

layer of mulch.

Maintain existing

grade with the tree protection

Haybales stake in against fence

<sup>2</sup> fence unless

otherwise indicated on the

plans.

URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE

5- See site preparation plan for any modifications with the Tree Protection

protection requirements.

by approved arborist.

New Contraction of the Contracti

stallation and removal.

SECTION VIEW

- ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).

KEEP OUT

TREE

PROTECTION

HALIN TOKLISHO

**TREE PROTECTION** 

AREA

8.5" x 11" sign

plastic spaced

every 50' along

Tr

the fence

laminated in

- 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO

- LANDSCAPING OPERATIONS.

- 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA. 5. THE CRITICAL ROOT ZONE (CRZ) IS DEFINED AS A 1.3-FT RADIUS PER EVERY DIAMETER-INCH OF THE TREE.
- 6. THE STRUCTURAL ROOT PLATE (SRP) IS DEFINED AS A 0.5-FT RADIUS PER EVERY DIAMETER-INCH OF THE
- 7. NO MACHINE TRENCHING THROUGH CRZ. HAND-DIG WHERE SILT FENCE (SD-1) CROSSES THE CRZ OF ANY TREE. ROOT PRUNE AS NEEDED ACCORDING TO ISA/ANSI PROFESSIONAL STANDARDS.
- 8. IF IMPACTING THE CRZ WITH TRAFFIC FROM OPERATING EQUIPMENT, A 5" LAYER OF WOOD CHIPS WILL BE
- APPLIED OVER THE CRZ AS A TREE CARE PRESCRIPTION
- 8. PLYWOOD AND/OR GROUND PROTECTION MATS OVER 4-5 INCHES OF WOOD CHIPS SHALL BE PLACED ON ROUTES AND IN AREAS WHERE THE CRZ MAY BE IMPACTED.
- 9. IF GRADING/DIGGING IMPACTS THE CRZ, THEN ROOT PRUNING IS PRESCRIBED AS A TREE CARE PRESCRIPTION
- STACKING GEOBAGS AROUND THE BASE OF THE TREE AS A TREE CARE PRESCRIPTION.

NOT TO BE USED FOR STAKES).

DIAMETER-INCH OF THE TREE

DIAMETER-INCH OF THE TREE.

STANDARDS.

CARE PRESCRIPTION

PRESCRIPTION.

FENCING PRIOR TO LANDSCAPING OPERATIONS.

![](_page_29_Figure_55.jpeg)

![](_page_29_Figure_56.jpeg)

![](_page_29_Figure_57.jpeg)

![](_page_29_Figure_58.jpeg)

![](_page_29_Figure_59.jpeg)

"SNOW" FENCE

<u>Plan</u>

TEMPORARILY STAKE MAT UNDER MODERATE TENSION

CHECK SLOT.

- STEP 2. WORK UPSTREAM ACROSS CHECK SLOT AND LAP BACK 15".

TRANSVERSE CHECK SLOT

STEP 3: TUCK MAT LAP INTO SLOT AND STAKE.

![](_page_29_Figure_65.jpeg)

STEP 4. A. BACKFILL AND PROGRESS UPSTREAM B. PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING. B. STAKE MAT DOWN TO ANCHOR

![](_page_29_Figure_67.jpeg)

FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE 6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

# "Tr" TREE PROTECTION (ALTERNATE)

# **CRUSHED STONE CONSTRUCTION EXIT**

![](_page_29_Picture_72.jpeg)

- 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.

![](_page_29_Figure_80.jpeg)

# "Tc" TURBIDITY CURTAIN SYSTEM

# ANCHOR SYSTEM AND LAYOUT DETAILS

- GEOTEXTILE UNDERLINER -
- SILT CURTAINS SHOULD BE ORIENTED PARALLEL TO THE DIRECTION OF FLOW. FOR SITES NOT SUBJECT TO HEAVY WAVE ACTION, THE CURTAIN HEIGHT SHALL PROVIDE SUFFICIENT SLACK TO ALLOW THE TOP OF THE CURTAIN TO RISE TO THE MAXIMUM EXPECTED HIGH-WATER LEVEL (INCLUDING WAVES) WHILE THE BOTTOM MAINTAINS CONTINUOUS CONTACT WITH THE BOTTOM OF THE WATER BODY. THE BOTTOM EDGE OF THE CURTAIN SHALL HAVE A WEIGHT SYSTEM CAPABLE OF HOLDING THE BOTTOM OF THE CURTAIN DOWN AND CONFORMING TO THE BOTTOM OF THE WATER BODY, SO AS TO PROHIBIT ESCAPE OF TURBID WATER UNDER THE CURTAIN.
- . THE SILT CURTAIN SHALL BE LOCATED BEYOND THE LATERAL LIMITS OF THE CONSTRUCTION SITE AND FIRMLY ANCHORED INTO PLACE (THE ALIGNMENT SHOULD BE SET AS CLOSE TO THE WORK AREA AS POSSIBLE BUT NO SO CLOSE AS TO BE DISRUPTED BY CONSTRUCTION EQUIPMENT).
- . DANGER BÚOYS SHALL BE USED AS DIRECTED BY THE COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERS.
- THE ENDS OF THE SILT CURTAIN SHALL BE SECURELY ANCHORED AND KEYED IN ORDER TO ENCLOSE AREA. A GENERAL RULE OF THUMB FOR ATTACHING ANCHORS IS TO DO SO AT 100' INTERVALS (DEPENDING ON CURRENT AND TIDAL CONDITIONS, IT MAY BE NECESSARY TO ANCHOR THE BARRIER ON BOTH SIDES-AS SHOWN).

![](_page_29_Picture_88.jpeg)

# "Cr" CONSTRUCTION ROAD STABILIZATION

WOOD CHIPS OR GRAVEL-----

- DT-5, NOTE 10 ON SHEET DT-6, AND PER GSWCC
- REQUIREMENTS. 2. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH
- PATTERNS.
- 20% MAY BE USED FOR SPECIAL USES. 6. TEMPORARY ROAD BEDS SHALL BE AT LEAST 12 FT WIDE
- FOR ONE-WAY TRAFFIC. 7. APPLY GEOTEXTILE TO THE ROADBED FOR ADDITIONAL ENTRANCE/EXIT.
- ON GDOT APPROVED GEOTEXTILE FILTER FABRIC.
- VEGETATION.
- GRAVEL TO MAINTAIN THE DEPTH AT 6-INCHES. GOOD STAND OF VEGETATION IS MAINTAINED.
- THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
- FLOODPLAIN.
- "Cr" ENCROACHES ON THE CRZ OF TREES.
- AND IN AREAS WHERE THE CRZ MAY BE IMPACTED.

. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS

MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.

THE CRITICAL ROOT ZONE (CRZ) IS DEFINED AS A 1.3-FT RADIUS PER EVERY 5. THE STRUCTURAL ROOT PLATE (SRP) IS DEFINED AS A 0.5-FT RADIUS PER EVERY

6. NO MACHINE TRENCHING THROUGH CRZ. HAND-DIG WHERE SILT FENCE (SD-1) CROSSES THE CRZ OF ANY TREE. ROOT PRUNE AS NEEDED ACCORDING TO ISA/ANSI PROFESSIONAL

7. IF IMPACTING THE CRZ WITH TRAFFIC FROM OPERATING EQUIPMENT, A 5" LAYER OF WOOD CHIPS WILL BE APPLIED OVER THE CRZ AS A TREE CARE PRESCRIPTION 8. PLYWOOD AND/OR GROUND PROTECTION MATS OVER 4-5 INCHES OF WOOD CHIPS SHALL BE PLACED ON ROUTES AND IN AREAS WHERE THE CRZ MAY BE IMAPCTED. 9. IF GRADING/DIGGING IMPACTS THE CRZ, THEN ROOT PRUNING IS PRESCRIBED AS A TREE

10. TREES WITHIN UPPER LIMITS OF GRADING EXTENTS SHALL HAVE THEIR ROOT BALL (OR SRP) PROTECTED BY STACKING GEOBAGS AROUND THE BASE OF THE TREE AS A TREE CARE

# "Ss" TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

# BLANKET AND MATTING CROSS-SECTIONS

![](_page_29_Figure_115.jpeg)

 $\setminus \stackrel{\forall}{\geq} /$ 

STEP 7 BACKFILL TERMINAL SLOT.

STEP 4 A. ROLL MAT UP-STREAM OVER REFILLED TERMINAL. C. PROGRESS UPSTREAM WITH ROLL.

ACCORDING TO ISA/ANSI PROFESSIONAL STANDARDS.

![](_page_29_Picture_120.jpeg)

NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE). 3. TEMPORARY ROADS SHALL FOLLOW THE CONTOURS OF THE NATURAL TERRAIN TO MINIMIZE DISTURBANCE OF DRAINAGE

4. IF A TEMPORARY ROAD MUST CROSS A STREAM, REFER TO THE TEMPORARY STREAM CROSSING DETAIL (DT-6). 5. GRADES FOR TEMPORARY ROADS SHOULD NOT EXCEED 10% EXCEPT FOR SHORT LENGTHS BUT MAXIMUM GRADES of

STABILITY IN THE SAME MANNER AS A CONSTRUCTION

8. APPLY A 6-INCH LAYER OF AGGREGATE OR WOOD CHIPS 9. STABILIZE ALL ROADSIDE DITCHES, CUTS, FILLS, AND OTHER DISTURBED AREAS ADJACENT TO PARKING AREAS AND ROADS WITH APPROPRIATE TEMPORARY OR PERMANENT

10.PERIODICALLY TOP DRESS ROADS WITH WOOD CHIPS OR 11. CHECK VEGETATED AREAS PERIODICALLY TO ENSURE A

12. REMOVE ANY SILT OR OTHER DEBRIS CAUSING CLOGGING OF ROADSIDE. 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 13.IF ANY FILL IS BROUGHT INTO THE FLOODPLAIN, THEN AN EQUAL AMOUNT OF FILL MUST BE REMOVED FROM THE

14.USE PRESCRIPTIVE TREE MAINTENANCE OF LAYERING 6" OF WOOD CHIPS OR GRAVEL AND ROOT PRUNING WHEN THE

15.PLYWOOD AND/OR GROUND PROTECTION MATS OVER 4-5 INCHES OF WOOD CHIPS SHALL BE PLACED ON ROUTES

ORIGINAL GRADE

![](_page_29_Picture_131.jpeg)

# Know what's **below. Call before you dig.**

	24 HOUR CONTACT:
TOM ROBERTS	
NAME	
404-637-0540	
PHONE	

TOM.ROBERTS@BROOKHAVENGA.GOV EMAIL

GSWCC	GEORGIA SOIL AND CONSERVATION CO
JOHN P	. SCHNEIDER
Level II Certified	Design Profession
Level II Certified	Design Profession

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Georgia Registered Engineering Firm PEF-004433 Expires 6/30/2024		PORG.	CO RECENTERED A	Adm/ Schmizer	Professional A	10 AVOINEER OF	CHITTIB SCHEET		
			FREESE		360 Interstate North Parkway,	Suite 250	Atlanta, GA 30339 Phone - (404) 334-4310	Web - www.freese.com	
	CITY OF BROOKHAVEN	N FORK NANCY CREEK STREAMBANK RESTORATION		FROM I-285 TO MURPHEY CANDLER LAKE	F&SC			ESC DETAILS	
	&N JOB NO.	BGA20127	ATE 12/2/2022	ESIGNED JLJ	RAWN JPS	EVISED	HECKED RCE	lwg	
	DATE F.				2/2/2022	19/15/2022 R	E NAME	C-DETAILS.c	
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	NO. ISSUE				$\left. \widehat{\Delta}  ight $ CITY OF BROOKHAVEN LDP REVIEW	DEKALB COUNTY LDP REVIEW	VERIFY SCALE Bar is one inch on original	this sheet, adjust scale.	
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# "Ds3" - DISTURBED AREA STABILIZAITON (WITH PERMANENT SEEDING)

- 1. SCARIFY, PIT OR RENCH SEALED OR CRUSTED SOIL.
- 2. APPLY TALL FESCUE SEED AT A RATE OF 1.1 LBS PER 1000 SQ.FT WHEN PLANTED ON ITS OWN. APPLY AT A RATE OF 30 LBS PER 1000 SQ. FT. WHEN PLANTED WITH OTHER PERENNIALS.
- 3. FIRST PLANTING YEAR FERTILIZER APPLICATION FOR TALL FESCUE SHOULD BE USING 6-12-12 (N-P-K) AT A RATE OF 1500 LBS/ACRE. N TOP DRESSING RATE SHOULD BE 50-100 LBS/ACRE. CONTRACTOR MAY ALTERNATIVELY FERTILIZE BASED ON SOIL TEST RESULTS.
- 4. APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED 1/4" - 1/2" DEEP.
- 5. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 OR 2.5 TONS PER ACRE.
- 6. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL, BUT NOT TO THE EXTENT TO CAUSE EROSION

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS/AC 1000 LBS/AC 400 LBS/AC	50-100 LBS/AC 1/2/ - 30
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS/AC 1000 LBS/AC 400 LBS/AC	0-50 LBS/AC 1/ -
3. GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300 LBS/AC 1300 LBS/AC 1100 LBS/AC	- - -
4、PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
5. SHRUBS LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700 LBS/AC 700 LBS/AC	-
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS/AC	30 LBS/AC 5/
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS/AC 800 LBS/AC 400 LBS/AC	50-100 LBS/AC 2/6/ 50-100 LBS/AC 2/ 30 LBS/AC
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS/AC 1000 LBS/AC 400 LBS/AC	50 LBS/AC 6/

# \*FERTILIZER REQUIREMENTS

\*UNLESS SOIL TESTS INDICATE OTHERWISE

# SOILS MAP EXHIBIT "Z"

![](_page_30_Picture_11.jpeg)

# SOILS TABLE "Z"

Map Unit Symbol	Map Unit Name	Rating
Ca	Cartecay silt loam, frequently flooded	A/D
CuC	Cecil-Urban land complex, 2 to 10 percent slopes	В
PfD	Pacolet sandy loam, 10 to 15 percent slopes	В
PfE	Pacolet sandy loam, 15 to 30 percent slopes	В
PuE	Pacolet - Urban Land complex, 15 to 25 percent slopes	В
Wf	Wehadkee silt loam, frequently flooded	B/D
W	Water	-
Ud	Urban Land	-
PfD PfE PuE Wf W Ud	Pacolet sandy loam, 10 to 15 percent slopes Pacolet sandy loam, 15 to 30 percent slopes Pacolet - Urban Land complex, 15 to 25 percent slopes Wehadkee silt loam, frequently flooded Water Urban Land	E

# "Ds1" - DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

# DEFINITION

APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE. WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.

# CONDITIONS

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS. PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

# SPECIFICATIONS

MULCHING WITHOUT SEEDING THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODICE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION:

- 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
- 3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

# MULCHING MATERIALS

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED

- 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- 2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE. BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- 3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR  $\frac{1}{4}$  GALLON PER SQ. YD.).
- 4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

# APPLYING MULCH

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- 3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF 'TRACKING IN" OR DAMAGE TO SHOES, CLOSING, ETC.
- 4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

# ANCHORING MULCH:

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART.THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.

TACKIFERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TB -TACKIFERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Plan	Inclu	T⊦ ded	IE E THE	APPENDIX 1 S&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR 1 E SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES W APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY C The four items chosen must be appropriate for the site conditions.	THOSE AREAS OF /HICH EPD HAS ONE TIME.	Nichols, Inc. ineering Firm PEF-004433 6/30/2024 ISTE AS	PECHNINGER	LIP SCHIFT OF
Page #	Y/	N	a.	During construction activities, double the width of the 25-foot undisturbed ve along all State waters requiring a buffer and the 50-foot undisturbed vegeta State waters classified as "trout streams" requiring a buffer. During constru- will not grant variances to any such buffers that are increased in width.	egetated buffer ated buffer along all action activities, EPD	Freese and Expires Expires	PROF	NITING SE
			b.	Increase all temporary sediment basins and retrofitted storm water manage	ement basins to	Georg		
			C.	Use baffles in all temporary sediment basins and retrofitted storm water ma	anagement basins to			
ES-3 ES-4 ES-6	Y		d.	A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual construction. The sign must be visible from a public roadway. The sign must following: (1) construction site, (2) the permittee(s), (3) the contact person(number(s), and (4) the permittee-hosted website where the Plan can be vie provided on the submitted NOI. The sign must remain on site and the Plan r the provided website until a NOT has been submitted.	start date of t identify the (s) and telephone ewed must be must be available on	REESE	<b>HCHULS</b> th Parkway,	) 4310 2.com
ES-1	Y		e. f.	Use flocculants or coagulants and/or mulch to stabilize areas left disturbed (7) calendar days in accordance with <b>Part III. D.1.</b> of the current NPDES Per Conduct turbidity sampling after every rain event of 0.5 inch or greater with period, recognizing the exceptions specified in <b>Part IV.D.6.d.</b> of the current	for more than seven ermits. in any 24-hour NPDES Permits.		erstate Nor 50	a, GA 30339 - (404) 334- www.freese
			g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "B provided for in O.C.G.A. 12-7-6 (a)(1).	BMP defense'' as		360 Int Suite 2	Atlanta Phone Web -
			h.	Reduce the total planned site disturbance to less than 50% impervious surfa State-mandated buffer areas from such calculations). All calculations must Plan.	aces (excluding any be included on the	ZO		
ES-12	] Y		i.	Limit the amount of disturbed area at any one time to no greater than 25 ac total planned site, whichever is less. All calculations must be included on th	cres or 50% of the ne Plan.	ATIC		
			j.	Use "Dirt II" techniques available on the EPD website to model and manage water runoff (including sheet flow). All calculations must be included on the (https://epd.georgia.gov/erosion-and-sedimentation)	e construction storm Plan.	LOR	Ľ Ľ	
			k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- construction soil sampling to a depth of six (6) inches to document improved carbon after final stabilization of the construction site.	- and post- d levels of soil	SES-		
			I.	Use mulch filter berms, in addition to a silt fence, on the site perimeter when storm water (including sheet flow) may be discharged. Mulch filter berms ca waterways or areas of concentrated flow.	rever construction annot be placed in		ב	
			m.	. Use appropriate erosion control slope stabilization instead of concrete in all water ditches and storm drainages designed for a 25-year, 24-hour rainfall	construction storm event.		5	S
			n.	Use flocculants or coagulants under a passive dosing method (e.g., floccula construction storm water ditches and storm drainages that feed into tempor and retrofitted management basins.	ant blocks) within rary sediment basins			LAIL
			0.	Install sod for a minimum 20-foot width (in lieu of seeding) after final grade along the site perimeter wherever storm water (including sheet flow) may b	has been achieved, e discharged.		E&SC	DEJ
<u></u>	<u></u>		р. q.	Conduct soil tests to identify and to implement site-specific fertilizer needs. Certified personnel for primary permittees shall conduct inspections at least (7) calendar days and within 24 hours of the end of the storm that is 0.5 inc greater in accordance with <b>Part IV.D.4.a.(3)(a) – (c)</b> ; secondary permittees <b>IV.D.4.b.(3)(a) – (c)</b> ; and tertiary permittees <b>Part IV.D.4.c.(3)(a) – (c)</b> *	t twice every seven ches rainfall or s, <b>Part</b>			ESC
			r.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to profunction until vegetation is established during the final stabilization phase of the const	tect soil surfaces truction activity.	C C		
			S.	Use alternative BMPs whose performance has been documented to be sup BMPs as certified by a Design Professional (unless disapproved by EPD or and Water Conservation Commission). (If using this item please refer to th guidance document found at <i>www.gaswcc.georgia.gov</i> )	erior to conventional - the Georgia Soil e Alternative BMP		7_1 1	
			t.	Limit the total planned site disturbance to less than 15% impervious surface state mandated buffer areas from such calculations). All calculations must to Plan.	es (excluding any be included in the			
			u.	Conduct inspections during the intermediate grading and drainage BMP pha final BMP phase of the project by the design professional who prepared the with <b>Part IV.A.5</b> of the permit.	ase and during the Plan in accordance	N.FO		
				the Plan to conduct inspections during the intermediate grading and drainage BMP phase BMP phase.	and during the final	(0127	LL SqL FC	
			v.	outlined in the Georgia Stormwater Management Manual known as the Blue equivalent or more stringent design manual.	e Book or an	u JOB NO. BGA2 FE 12/2/		رو درKED
				* This requirement is different for infrastructure projects: Certified personnel for primary permittees shall conduct inspections at least once every sev	/en	F&n DA1	2 DR/	
				(7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c) of the permit.		DATE	12/2/202 09/15/20	FILE NAME
					TOM ROBERTS NAME		SqL SqL	;
EAM F IAN 1	REST( ACR	DRA E M	TIC AXI	ON INVOLVES CONSTRUCTION IN A LINEAR MANNER, IMUM SHALL BE ACTIVELY DISTURBED AT ANY GIVEN	404-637-0540 PHONE			inal ch on
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RK AF AD = ( REA =	2.4 A 0.4 A 4.3 A	C AC			EMAIL		IP REVIEW	ne inch g g. If not g
= 33%	MAX	( SIT	E C	DISTURBANCE	GEORGIA SOIL AND WATER CONSERVATION COMMISSION		HAVEN LE	Bar is c drawin this she
					JOHN P. SCHNEIDER		BROOK	ALE 1
					Level II Certified Design Professional	SUE	CITY OF	FY SCA
					ISSUED: 04/27/2021 Expires: 04/27/2024	ON		
				Know what's <b>below.</b>			S-12	
				wan beide you dig.	NOT FOR CONSTRUCT		32	

### APPENDIX 1, ITEM i

THE NATURE OF STR WHERE NO MORE T TIME.

CALCULATIONS FOR

MAX DISTURBED WO SOUTHERN HAUL RO TOTAL DISTURBED

(1 + 0.4)/4.3 x 100%

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