FINAL PHASE **EROSION CONTROL NOTES**

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

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

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF-WAY POINT ON THE RISER.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE-HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

ALL TEMPORARY SEDIMENT BASINS SHALL BE REMOVED WHEN THE DEVELOPMENT IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH PERMANENT VEGETATION.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO CONSTRUCTION ACTIVITY BY OTHERS.

ERODED VEGETATED SLOPES WILL BE BACKFILLED, SMOOTHED, SEEDED OR GRASSED AND COVERED WITH GEOTEXTILE MATTING.

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

UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

PHASE III EROSION CONTROL NOTE: ALL EROSION CONTROL MEASURES TO BE INSTALLED PER 2016 GREEN BOOK. CONTRACTOR TO REMOVE SILT FENCE AFTER ALL SOIL IS STABILIZED AND AFTER ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

DESIGNER GSWCC LEVEL II

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 DIRECT SUPERVISION.



STATE WATERS NOTE:

BUFFER ENCROACHMENT / IMPACTED STREAM NOTE 82 LF OF STREAM WILL BE IMPACTED DURING CONSTRUCTION. A BUFFER VARIANCE PERMIT AND NATIONWIDE PERMIT WILL BE ISSUED PRIOR TO ANY LAND DISTURBING ACTIVITY. PERMIT IDENTIFICATION NUMBERS ARE AS FOLLOWS:

GA EPD BUFFER VARIANCE: BV-044-20-14 USACE NATIONWIDE PERMIT 42 (NWP 42): SAS-2020-00476

PERMIT CONFIRMATION FOR NATIONWIDE PERMIT IS PROVIDED ON SHEET C2.43. PERMIT CONFIRMATION FOR BUFFER VARIANCE WILL BE PROVIDED WHEN IT IS RECEIVED. THE 25' STATE UNDISTURBED BUFFER & 75' CITY OF BROOKHAVEN UNDISTURBED BUFFER ARE DELINEATED AND SHOWN ON ALL APPLICABLE ES&PC PLANS

NOTE: THE RECEIVING STREAM IS NOT A TROUT STREAM. THE RECEIVING STREAM SUPPORTS WARM WATER FISHERIES.

OF BROOKHAVEN.

CuC



75' CITY OF BROOKHAVEN -

ROBERT E. KAMM, JR DB. 17341 PG. 677 ZONED R-100

50' CITY UNDISTURBED BUFFER

25' STATE UNDISTURBED BUFFER

UNNAMED TRIBUTARY TO NANCY CREEK

NTU: 50

25' STATE UNDISTURBED BUFFER

AARON ST PIERRE, CERTIFIED DESIGN PROFESSIONAL

ALL STATE WATERS WITHIN 200' OF THE PROJECT SITE ARE SHOWN HEREIN. NO OTHER STATE WATERS WERE FOUND ON THIS PROPERTY.

NOTE: POST-DEVELOPED RUNOFF FROM THIS SITE IS DETERMINED TO NOT HAVE ANY NEGATIVE EFFECTS TO ANY DOWNSTREAM OF NEIGHBORING AREA. THE MS-4 AUTHORITY FOR THIS SITE IS THE CITY





C2.31 Permit # LDP22-00013

Call before you dig.

SCALE: 1" = 50 '

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

DESIGNER GSWCC LEVEL II

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 DIRECT SUPERVISION.

GSWCO	GEDRGIA Soni, AND WATER CONSERVATION COMMISSIO
Aaron J S	St Pierre
Level II Certified I	Design Professional
CERTIFICATION NUMBER	0000085101

R&N_

AARON ST PIERRE, CERTIFIED DESIGN PROFESSIONAL



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Know what's below. Call before you dig. SCALE: 1" = 50 '

Permit # LDP22-00013

C2.32

CLEARING PHASE EROSION CONTROL NOTES

PRIOR TO THE LAND DISTURBING CONSTRUCTION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS, IF POSSIBLE.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITIES SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES. NO LAND DISTURBANCE SHALL TAKE PLACE OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.

- 1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLANS, THE STONE SIZE SHALL CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M266-96, SECTION 7.3 SEPARATION REQUIREMENTS.
- 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXIT ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- 3. TYPE 'C' SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-27.1. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- 4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLANS. SEE SEPARATE DETAIL FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
- 5.STONE CHECK DAMS SHALL BE INSTALLED ON ALL EXISTING CONCENTRATED FLOWS AS SHOWN ON THE PLANS.
- 6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT CONSTRUCTION OF ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUNOFF.

THE DESIGN PROFESSIONAL WHO PREPARED THE ESPC PLAN WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN SEVEN DAYS AFTER INSTALLATION.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLANS AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3 INCH STONE, AS CONDITIONS DEMAND, ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLAN.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

ALL CLEARING AND GRUBBING DEBRIS TO BE CHIPPED AND MULCHED FOR USE IN SEDIMENT AND EROSION CONTROL PREVENTION.

GRADING PHASE EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION:

MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT THE VARIOUS STAGES OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED. ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10FT OR GREATER. AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS IMMEDIATELY.

TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS AND ALL FILL SLOPES 10FT OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE

PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

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

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED AND DISPOSE OF THEM UNLESS NOTED ON PLANS. OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. INDICATORS MUST BE INSTALLED IN SEDIMENT BASINS INDICATING THE 1/3 FULL VOLUME FOR CLEANOUT.

WHERE INDICATED, HATCHED AREAS SHOWN ON THE EROSION CONTROL PLANS THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW MAY REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DRAIN ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED MEASURES ARE FUNCTIONING PROPERLY. WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT. 3:1 SLOPES SHALL RECEIVE EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE MATTING AS SPECIFIED ON THE EROSION CONTROL PLANS.

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, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

ALL INLET HEADWALLS TO BE PROTECTED WITH SILT GATES. AND ALL DROP INLETS TO BE UNDERCUT 1.5FT DEEP BY 10FT IN DIAMETER.

ERODED VEGETATED SLOPES WILL BE BACKFILLED, SMOOTHED, SEEDED OR GRASSED AND COVERED WITH GEOTEXTILE MATTING.

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

POST-DEVELOPMENT STORMWATER QUALITY TREATMENT

POST DEVELOPMENT STORMWATER WATER QUALITY CONTROL WILL BE PROVIDED THROUGH A SERIES OF STORMWATER FEATURES. RUNOFF IS INITIALLY COLLECTED AND TREATED THROUGH GRASS CHANNELS. PORTIONS OF THE SITE ARE THEN ROUTED THROUGH A DRY EXTENDED DETENTION BASIN FOR FURTHER TREATMENT. AREAS OF THE SITE THAT BYPASS THE SITE ARE COLLECTED IN STORMWATER PIPE NETWORKS AND TREATED USING APPROVED PROPRIETARY DEVICES (HYDRODYNAMIC SEPARATORS). THE SITE HAS BEEN DESIGNED TO REDUCE THE POST DEVELOPMENT FLOWS DISCHARGING FROM THE SITE TO LEVELS BELOW THE PRE DEVELOPMENT CONDITIONS. RIP RAP STORMWATER OUTLET PROTECTION IS USED AT ALL DISCHARGE LOCATIONS TO REDUCE OUTFLOW VELOCITIES TO NON-DESTRUCTIVE LEVELS. THE PERMITTEE IS ONLY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER MANAGEMENT DEVICES PRIOR TO FINAL STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. PERMIT IV.D.3.B PAGE 29

FINAL PHASE EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

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

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF-WAY POINT ON THE RISER.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE-HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

ALL TEMPORARY SEDIMENT BASINS SHALL BE REMOVED WHEN THE DEVELOPMENT IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH PERMANENT VEGETATION.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO CONSTRUCTION ACTIVITY BY OTHERS.

ERODED VEGETATED SLOPES WILL BE BACKFILLED, SMOOTHED, SEEDED OR GRASSED AND COVERED WITH GEOTEXTILE MATTING.

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

CRITICAL WORK ZONE **EROSION CONTROL NOTES:**

DESIGN PROFESSIONAL'S CERTIFICATION

(1) 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 100001.

(2) "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."

DESIGN PROFESSIONAL

0000083860 GA REGISTRATION #



LEVEL II CERTIFICATION EXPIRES: 10/01/2024

NPDES PERMIT COVERAGE

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

AUTHORIZED DISCHARGES

- 1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART
- I.C.1.a-c. 2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1
- 3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2 A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.
 - B. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.
 - C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
- 4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2 A. FIRE FIGHTING ACTIVITIES
- **B. FIRE HYDRANT FLUSHING**
- C. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING **D. IRRIGATION DRAINAGE**
- E. AIR CONDITIONING CONDENSATE F. SPRINGS
- G. UNCONTAMINATED GROUND WATER
- H. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

LIMITATIONS ON COVERAGE PART I.C.3

- 1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT
 - ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN
 - DISCHARGES THAT ARE IDENTIFIED IN PART II.A.2 OF THIS PERMIT AND THAT ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT. C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT
- EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES. D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE, OR MAY REASONABLY BE EXPECTED TO BE,
- CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD. 2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A 12-14-2, ET SEQ.) 40 CFR 117 OR CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE MENTIONED
- REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404)656-4883 OR (800) 241-4113 OR THE NATIONAL RESPONSE CENTER (NRC) AT 1-800-424-8802. PART III.B.1 3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR
- OIL RESULTING FROM AN ON-SITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4

ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 301-3-6-03.

PRIMARY PERMITTEE'S (OWNER/OPERATOR) CERTIFICATION

(1) "I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) WAS PREPARED BY A DESIGN PROFESSIONAL, AS DEFINED BY THIS PERMIT THAT HAS COMPLETED THE APPROPRIATE CERTIFICATION COURSE APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-19 AND THAT I WILL ADHERE TO THE PLAN AND COMPLY WITH ALL PERMIT REQUIREMENTS."

(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

PRIMARY PERMITTEE (OWNER/OPERATOR)

DATE

NPDES PERMIT COVERAGE

SEE SHEET C2.10 FOR SAMPLING LOCATIONS.

SAMPLING METHODOLOGY PART IV.D.6

All SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- 1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE
- SAMPLES. 2. SAMPLES SHALL BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- 3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHALL BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE
- CLEANED THOROUGHLY TO AVOID CONTAMINATION. 4. MANUAL, AUTOMATIC, OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW-THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT. THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- 5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

SAMPLING FREQUENCY

SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.6.D OF THE PERMIT.

- 1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 2. HOWEVER, WHERE THE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- 3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS: A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES
- OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST:
- C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT 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. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY
- SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; E. EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL 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 PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF 3.A. AND 3.B. BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

> DESIGNER GSWCC LEVEL II 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 DIRECT SUPERVISION.

> > GEDEGIA SONI AND WATER GSWCC

> > > Aaron J St Pierre

Level II Certified Design Professiona 000008510 CERTIFICATION NUMBER

ISSUED: 09/19/2021 Exercis: 09/19/2024

AARON ST PIERRE, CERTIFIED DESIGN PROFESSIONAL

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BROOKHAVEN PARK IMPROVEMENTS	SITE DEVELOPMENT PACKAGE	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT BROOKHAVEN LAND LOTS 240 & 241, DISTRICT 18 GEORGIA
NO. DAT 		
PROJECT 19002 DRAWN B MTC CHECKED	SPC NO	DTES TE 17/01/2022 ALE 1/A

BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

PRIMARY PERMITTEE / OWNER CONTACT:

PHONE: 404.637.0562

NPDES PERMIT COVERAGE (CONTINUED)

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001 (STAND ALONE CONSTRUCTION PROJECT). THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

SITE DESCRIPTION:

OWNER/DEVELOPER AS PRIMARY PERMITTEE WILL OVERSEE SITE CONSTRUCTION LOCATED WITHIN THE PROPERTY LOCATED AT 4158 PEACHTREE ROAD NE, ATLANTA, GA 30319. THE ENTIRE SITE CONTAINS ±20.95 ACRES.

DESCRIBE PROPERTY TO BE DEVELOPED: MUNICIPAL PARK

AFTER PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES CONSTRUCTION WILL BEGIN WITH DEMOLITION OF EXISTING SITE FEATURES AS OUTLINED ON THE DEMOLITION PLAN SHEET C0.03 CONTINUING WITH CLEARING AND GRUBBING OF VEGETATION IN AREAS THAT ARE TO BE DISTURBED, PRELIMINARY AND FINAL GRADING, UTILITY INSTALLATION, SIDEWALKS AND STRUCTURES PER THE PHASED EROSION CONTROL PLAN SHEETS C2.10-C2.32 AND CONSTRUCTION PLAN SFT

STORM WATER RUNOFF FROM THIS DEVELOPMENT WILL BE DIVERTED THROUGH TEMPORARY BMP'S UNTIL THE SITE IS STABILIZED.

ZONING:

THIS SITE IS ZONED PR-1

SURVEY INFORMATION

BOUNDARY AND TOPOGRAPHIC SURVEY, DATED 08/24/2016, BY TERRAMARK LAND SURVEYING, INC.

NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER FEMA FIRM PANEL 13089C0052K , EFFECTIVE DATE AUGUST 15, 2019.

RUNOFF COEFFICIENT

 WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 77 WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 79

SOIL TYPES

THE NRCS SOIL TYPES CAN BE FOUND ON SHEET C2.10 OF THESE CONSTRUCTION DOCUMENTS

SOIL DISTRIBUTING ACTIVITIES INCLUDE:

- INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT
- CONTROLS. CLEARING AND GRUBBING.
- EXCAVATION OF THE FOUNDATION.
- GRADING AND EXCAVATION FOR UTILITIES.
- PREPARATION FOR FINAL PLANTING AND SEEDING. COMPLETION OF ON-SITE STABILIZATION.
- SEQUENCE OF MAJOR ACTIVITIES SEE CONSTRUCTION SCHEDULE

As checklist 16 requires provide a description of the buffer encroachment. BUFFER ENCROACHMENTS

THERE ARE 25 FOOT STATE WATERS BUFFER ENCROACHMENTS ON THIS SITE.

NAME OF RECEIVING WATERS:

THE RECEIVING WATER FOR THIS SITE IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THIS PROJECT DOES NOT DISCHARGE STORMWATER 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.

CONTROLS

EROSION AND SEDIMENT CONTROLS

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.

EXISTING VEGETATION SHALL BE LEFT IN PLACE UNTIL SUCH TIME THAT LAND DISTURBING ACTIVITIES ARE TO TAKE PLACE UPON THAT PORTION OF THE SITE. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED. IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMENTS SUCH AS THE STRUCTURES OR SIDEWALKS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEEDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL PERMIT, GAR 100001, ARE NOTED BELOW.

"WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION, ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE."

"WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED,"

PLEASE REFER TO DETAIL SHEETS FOR THE LAND DISTURBANCE CONSTRUCTION SCHEDULE AND TEMPORARY AND PERMANENT GRASSING SCHEDULES.

NON- STORM WATER DISCHARGES

ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMP'S AND THE STORM WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER, DEWATERING OR PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE ALL WATER OF NON-TOXIC MATERIALS.

OTHER CONTROLS

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND ALL THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ONSITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS WILL BE DETERMINED BY THE CONTRACTOR.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THIS PROJECT.

CONCRETE WASHDOWN PER DETAIL 1 ON SHEET C2.91

- BACK IN EQUIPMENT.
- WASHDOWN ONLY THE CHUTE, HOPPER AND REAR OF THE VEHICLE. DO NOT WASH OUT THE DRUM.
- 4. MAKE SURE WASHDOWN WATER GOES INTO AND STAYS IN THE PIT.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET C2.11 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR RACK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/ STAINS/ FINISHING TREATMENTS, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

SPILL PREVENTION

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

- QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
- RAINFALL WHERE POSSIBLE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- 4. PRODUCT MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS- CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OR SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/ FINISHES/ SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASTE WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

WILL BE DISPOSED OF IN PROPER WASTE PROCEDURES.

SOIL CLEANUP AND CONTROL PRACTICES

- PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- 1-800-424-8802
- HOURS
- WILL BE CONTACTED AS REQUIRED.

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

ON-SITE BUILDING MATERIALS

BUILDING MATERIALS AND BUILDING PRODUCTS WILL BE COVERED WITH PLASTIC SHEETING SECURED OVER THE MATERIALS OR PER MANUFACTURER'S RECOMMENDATION. ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS SHALL BE COVERED AND NOT IN DIRECT CONTACT WITH THE GROUND TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

WASHOUT OF THE CONCRETE DRUM IS PROHIBITED. FOLLOWING IS A PROCEDURE TO WASHDOWN TOOLS, CHUTE AND HOPPER: COORDINATE WITH SITE SUPERINTENDENT TO EXCAVATE A PIT DEEP ENOUGH TO CONTAIN WASHDOWN WATER.

5. COORDINATE WITH SITE SUPERINTENDENT TO FILL IN PIT AND SMOOTH OUT GROUND.

PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM

5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL

LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND

 MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO

• FOR SPILLS THAT IMPACT SURFACE WATER, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT

 FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER WILL BE CONTACTED WITH IN 24 HOURS. • FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24

• FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES

INSPECTIONS

PRIMARY PERMITTEE

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

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

MAINTENANCE

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FORM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", 2016 EDITION.

CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TROP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

DETENTION POND OUTLET STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST.

SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS BEEN ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACES WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).

SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS. SEDIMENT SHALL BE REMOVED WHEN ON-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT INTER THE INLET AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISER. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT ADJACENT TO A STREAM OR FLOODPLAIN.

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

ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.

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.

PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGIONS, SUCH THAT WITHIN THE GROWING SEASON 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.



PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE RD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

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NPDES PERMIT COVERAGE (CONTINUED)

STORM WATER SAMPLING

SAMPLE ANALYSIS

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART 136 AND THE GUIDANCE DOCUMENT TITLES NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-B-92-001.

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT 1 OUTFALL LOCATION INDICATED ON SHEET C2.10. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDS THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NUMBER GAR 100001. THE NTU IS BASED UPON THE TOTAL PROJECT AREA OF 20.95 ACRES OF THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF LESS THAN 4.99 SQ. MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

NTU VALUE= 50

SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR 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.

- SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. 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 OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E

SAMPLING POINTS

THERE ARE 2 SAMPLING LOCATION AS INDICATED ON SHEET C2.10 AND SEE POINT TABLE ON C2.10 FOR COORDINATES. PER NPDES PERMIT GAS 100001, FOR CONSTRUCTION ACTIVITIES. THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL

- STREAM WATER CHANNEL
- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. • THE SAMPLINGS SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- THE PRIMARY PERMITTEE DOES NOT HAVE TO SAMPLE SHEET FLOW INTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT.

SAMPLING FREQUENCY

SEE NOTES ON SHEET C2.40.

REPORTING

- 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 THE PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION
- A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- C. THE DATE(S) ANALYSES WERE PERFORMED;
- D. THE TIME(S) ANALYSES WERE INITIATED:
- E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- F. REFERENCES AND WRITTEN PROCEDURES. WHEN AVAILABLE. FOR THE ANALYTICAL TECHNIQUES OR METHODS USED: G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES,
- ETC USED TO DETERMINE THESE RESULTS.
- H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- 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 THE 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 FESCUE TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

IF NO QUALIFYING EVENTS OCCURRED WITHIN A MONTHLY MONITORING PERIOD, A REPORT MUST BE SUBMITTED STATING SUCH. ADDRESSES ARE PROVIDED BELOW:

GOVERNING AGENCY: CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

OWNER: CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

ATTN: INSPECTOR: TBD ADDRESS: TBD ADDRESS: TBD PHONE: TBD

RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT: C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT:
- D. A COPY OF ALL SAMPLING 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.(2). OF THIS PERMIT.

COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER 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.

COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE AND FEDERAL AGENCIES HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS AND CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OR THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AT IT IS SPREAD, A DISK HARROW WITH THE DISK SET OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MULCH, STRAW OR HAY

SEEDING SPECIES HULL COMMON BERMUDA GRASS

FESCUE

FESCUE **RYE GRASS**

HAY MULCH FOR TEMP. COVER

B. TOP DRESSING: APPLY WHEN PLANTS FERTILIZER(AMMONIUM NITRATE 3

C. SECOND-YEAR FERTILIZER:(5-10-15 OI

HYDRAULIC SEEDING EQUIPMENT WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (HYDRAULIC S AGRICULTURAL LIMESTONE #75 FERTILIZER, 5-10-15 MULCH, (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH

SEEDING SPECIES SERICEA LESPEDEZA, SCARIFIED WEEPING GRASS OR COMMON BERMUDA, HULLED

SERICEA LESPEDEZA, UNSCARIFIED

FESCUE SERICEA LESPEDEZA, UNSCARIFIED RYF

HAY MULCH FOR TEMPORARY COVER

B. TOP DRESSING: APPLY WHEN PLANTS

C. SECOND-YEAR FERTILIZER: (0-20-20 C

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL AREA UNFAVORABLE TO ALL BUT THE MOST

A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)

	4000 LBS./ACRE 1500 LBS./ACRE 5000 LBS./ACRE
APPLICATION RATE/ACRE 10 LBS.	PLANTING DATES 3/1-6/15
50 LBS.	9/1-10/31
50 LBS. 50 LBS.	11/1-2/28
5000 LBS.	6/15-8/31
S ARE 2 TO 4 INCHES TALL 33.5%)	300 LBS./ACRE
R EQUIVALENT)	800 LBS./ACRE

EEDING WITH MULCH: (HYDRAULIC SE AGRICULTURAL LIMESTONE #75 FERTILIZER, 5-10-15 MULCH, (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH	EDING EQUIPMENT ON SLOPES LE	SS THAN 3:1 AND STEEPER) 4000 LBS./ACRE 1500 LBS./ACRE 5000 LBS./ACRE 1000 LBS./ACRE
SEEDING SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
CEA LESPEDEZA, SCARIFIED PING GRASS OR MON BERMUDA, HULLED	60 LBS. 4 LBS. 6 LBS.	3/1-6/15
UE CEA LESPEDEZA, UNSCARIFIED	40 LBS. 60 LBS.	9/1-10/31
UE CEA LESPEDEZA, UNSCARIFIED	40 LBS. 75 LBS. 50 LBS.	11/1-2/28
MULCH FOR TEMPORARY COVER	5000 LBS.	6/15-8/31
<u>DP DRESSING:</u> APPLY WHEN PLANTS A FERTILIZER (AMMONIUM NITRATE 33	ARE 2 TO 4 INCHES TALL .5%)	3000 LBS./ACRE
ECOND-YEAR FERTILIZER: (0-20-20 OR	EQUIVALENT)	500 LBS./ACRE

GENERAL NOTES PER EROSION, SEDIMENTATION & POLLUTION CONTROL (ES&PC) PLAN CHECKLIST:

- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN DAYS AFTER INSTALLATION.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- 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.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

GENERAL NOTES

- 1. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVES, GRASSING, AND LANDSCAPING.
- 2. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
 - COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL Α. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND FREQUENT WATERING OF EXCAVATION AND FILL AREAS PROVIDING GRAVEL OR PAVING AT ENTRANCE/ EXIT DRIVES
- 10. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ONSITE INSPECTOR.
- 12. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
- 13. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND LOTS, AND LOTS SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.
- 14. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE CITY ENGINEER STARTING WITH THE ISSUANCE OF THE LDP AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
- 15. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR 100001.
- 16. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONROL EROSION.
- 17. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH STABILIZED WITH PERMANENT VEGETATION AND ALL ROAD/DRIVEWAYS HAVE BEEN PAVED.

ON-SITE BUILDING MATERIALS:

BUILDING MATERIALS AND BUILDING PRODUCTS WILL BE COVERED WITH PLASTIC SHEETING SECURED OVER THE MATERIALS OR PER MANUFACTURER'S RECOMMENDATION. ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS SHALL BE COVERED AND NOT IN DIRECT CONTACT WITH THE GROUND TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.



ANTICIPATED CONSTRUCTION SCHEDULE START DATE: 06/2021 END DATE: 03/2021

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:

DATE OF INSPECTION

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

CERTIFICATION # GSWCC LEVEL II DESIGN PROFESSIONAL

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

THESE DISCREPANCIES MUST BE ADDRESS IMMEDIATELY AND A REINSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON SITE UNTIL THE DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



10V	DEC	JAN	FEB	MAR



ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE RD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

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BROOKHAVEN PARK IMPROVEMENTS	SITE DEVELOPMENT PACKAGE		CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	BROOKHAVEN LAND LOTS 240 & 241, DISTRICT 18 GEORGIA
NO DATE) / RE	VISIONS DESCRI) PTIO	N
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ISSUE	ED FC	DR PERM	ЛТ	
ES	PC I	NOTE	S	
PROJECT NC 19002).	DATE 07/01	/2022	2
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DMY SHEET NO.				

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS	C2.42 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of	N/A N/A 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to
SWCD: Dekalb County	erosion and sediment control measures and practices prior to land disturbing activities."	conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soli and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at
ect Name: Brookhaven Park Improvements Address: 4158 Peachtree Road NE, Atlanta, GA 30319	C2.42 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the	www.gaswcc.georgia.gov.
County: Brookhaven/DeKalb Date on Plans: 07/01/2022	shall be implemented to control or treat the sediment source."	N/A N/A 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual
& email of person filling out checklist: Matt Replogle, mreplogle@lose.design	C2.42 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be	for Erosion & Sediment Control in Georgia 2016 Edition. *
Y/N TO BE SHOWN ON ES&PC PLAN	stabilized with mulch or temporary seeding."	ALL Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional
Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission	N/A N/A 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile	buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
as of January 1 of the year in which the land-disturbing activity was permitted.	upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply	N/A N/A 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	with Part III. C. of the permit Include the completed Appendix 1 listing all the BMPs that will be used for those	HYD Y 43 Delineation and acreage of contributing drainage basins on the project site.
2 Level II certification number issued by the Commission, signature and seal of the certified design professional.	areas of the site which discharge to the Impaired Stream Segment.	HYD Y 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
(orginature, searand lever in number musible on each sheet pertaining to Loar or plan or the Flan with hot be reviewed)	N/A N/A 23 It a TMDL Implementation Plan for sediment has been inalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOL the ESSEC Plan must address any site-specific	HYD Y 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are
3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from	conditions or requirements included in the TMDL Implementation Plan. *	completed.
the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must	C2.41 Y 24 BMPs for concrete washdown of bols, concrete mixer chutes, hoppers and the rear of the vehicles. Washout	ALL Y 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without
include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. *	of the drum at the construction site is prohibited. *	erosion. Identify/Delineate all storm water discharge points.
(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)	C2.41 Y 25 Provide BMPs for the remediation of all petroleum spills and leaks.	C2.10 Y 47 Soil series for the project site and their delineation.
4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.	C2.40 Y 26 Description of the measures that will be installed during the construction process to control pollutants in storm	ALL Y 48 The limits of disturbance for each phase of construction.
5 Provide the name, address, email address, and phone number of primary permittee.	water that will occur after construction operations have been completed. *	ALL Y 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin,
6 Note total and disturbed acreages of the project or phase under construction.	C2.41 Y 27 Description of practices to provide cover for building materials and building products on site. *	retrofitied detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment
7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.	C2.41 Y 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *	storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written iustification explaining the decision to use equivalent controls when a
8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	C2.42 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major	sediment basin is not attainable must be included in the Plan for each common drainage location in which a
Y 9 Description of the nature of construction activity and existing site conditions.	portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities,	sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must
10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	excavation activities, utility activities, temporary and final stabilization).	also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the
Y 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,	C2.42 Y 30 Provide complete requirements of Inspections and record keeping by the primary permittee. *	sprage design processional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water
residential areas, wetlands, marshlands, etc. which may be affected.	C2.42 Y 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *	from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible,
Y 12 Design professional's certification statement and signature that the site was visited prior to development of the	C2.42 Y 32 Provide complete details for Retention of Records as per Part IV.F. of the permit *	a written justification explaining this decision must be included in the Plan.
ES&PC Plan as stated on Part IV page 19 of the permit	$C_{2,42}$ Y 33 Description of analytical methods to be used to collect and analyze the samples from each location. *	ALL Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for
13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate	C2.42 V 34 Appendix B rationale for NTU values at all outfall sampling points where applicable *	Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with
and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit *	C2.10 V 35 Deligeste all campling locations, perennial and intermittent streams and other water bodies into which	
Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the	storm water is discharged. *	C2.90 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set
initial sediment storage requirements and perimeter control BMPs within 7 days after installation."	C2 10 X 36 A description of appropriate controls and measures that will be implemented at the construction site including:	610 minute Manuarior Erosion and Sectiment Control in Georgia.
In accordance with Mart IV.A.5 page 25 of the permit.	(1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage	dates and seeding, fertilizer, lime and mulching rates. Vegetative planshall be site specific for appropriate time
In the arry note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-toot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal	BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter	of the year that seeding will take place and for the appropriate geographic region of Georgia.
marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary	control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine	* If using this checklist for a project that is less than 1 acre and not part of a common development
variances and permits."	all of the BMP's into a single phase.	but within 200 ft of a perennial stream, the * checklist items would be N/A.
16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.	ALL Y 3/ Graphic scale and North arrow.	Effective January 1, 2022
Y 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on	ALL Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:	
BMPs with a hydraulic component must be certified by the design professional." *	Map scale Ground slope Condumnervals, it 1 inch = 100ftor Flat0 - 2% 0.5 or 1	
Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as	larger scale Rolling 2 - 8% 1 or 2	Λ
authorized by a Section 404 permit." *	Steep 8% + 2,5 or 10	$/_1$
Regulatory Division		
CERTIFICATION OF COMPLIANCE		
WITH		
NATIONWIDE PERMIT 42		
PERMIT FILE NUMBER: SAS-2020-00476		
PERMITTEE/ADDRESS: Mr. Brian Borden, City of Brookhaven Parks and Recreation Department, 3360 Osborne Road, Brookhaven, Georgia 30319		
LOCATION OF WORK: The project site is located at 4158 Peachtree Road Northeast, in Brookhaven, Gwinnett County, Georgia (Latitude 33 8640, Longitude -84 3407)		
DDO IE OT DECODIDITION. To readour construction of a first state of the state		
PROJECT DESCRIPTION: To perform recreational and infrastructure improvements within the existing 20.95-acre Brookhaven Park. As part of this project, existing		
structures & facilities will be removed and replaced with an aschalt barking area		

02 - Brookhaven Park CDs\CAD\01_SHEETS\19002_C240_ESPC NOTES_SERIES.dwg - Printed on 2022-09-09 at 11:22:18.

Signature of Permittee

revocation.

channel protection impacts within the perennial stream channel.

REQUIRED COMPENSATORY MITIGATION: None.

DATE MITIGATION COMPLETED OR PURCHASED: N/A.

AQUATIC RESOURCE IMPACTS: 82 linear feet of perennial stream channel.

DATE WORK IN WATERS OF UNITED STATES COMPLETED:

Lunderstand that the permitted activity is subject to a U.S. Army Corps of Engineers' Compliance Inspection. If I fail to comply with the permit conditions at Part C of the Nationwide Permit Program, published in the January 6, 2017, <u>Federal Register</u>, Vol. 82, No.4, Pages 1860-2008, it may be subject to suspension, modification or meanting.

I hereby certify that the work authorized by the above referenced permit as well as any required mitigation (if applicable) has been completed in accordance with the terms and conditions of the said permit.

Date

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R MY AUTHORIZED
GEORGIA SOIL AND WATER Conservation Commission
yama ign Professional
0000083860
PIRES: 10/01/2024
PIRES:

ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE RD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV

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BROOKHAVEN PARK IMPROVEMENTS	SITE DEVELOPMENT PACKAGE	VISION	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	BROOKHAVEN LAND LOTS 240 & 241, DISTRICT 18 GEO
SUBMITTALS NO. DATE 1 09.09.2022	6 / RE`	VISIONS DESCRI PERMIT RE	S PTIO Introductions	N
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HIS DRAWING AND THE DESIGN SHOWN IS THE PROPERT

THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.

7-1-2022

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JBMITTALS / REVISIONS

4 01/26/2021

IEET TITLE

ROJECT NO.

19002

ΡIL

RAWN BY

CHECKED BY PIL

SHEET NO.

6-86

IO. DATE DESCRIPTION

ISSUED FOR PERMIT

DRAINAGE & ESPC

DETAILS

C2.90

Permit # LDP22-00013

DATE

SCALE AS SHOWN

07/01/2022

PERMIT REVISIONS

ARK

BROOKHAVEN

Category 2 (greater than or equal to 5 ft/sec" but less than 10 ft/sec") Ch-2

Turf Reinforcement Matting (TRM) shall be

used, if a vegetated lining is used in channels

with velocities greater than or equal to 5 feet/

sec but less than 10 fb/sec. TRM is permanent

geosynthetic erosion control matting that is used

in channels to stabilize the soil while permanent

vegetation is rooting, and to provide additional

Velocities in channels when flowing at the

bankfull discharge or the 25-year frequency

discharge, whichever is the greater, shall be

used in determining the appropriate TRM for

Rock Riprap Lining Rock riprap shall be designed to resist dis-

placement when the channel is flowing at the

charge, whichever is the greater. Rock riprap

lining should be used when channel velocities are greater than or equal to 5 fi/sec but less than

Dumped and machine placed riprap should not

be installed on slopes steeper than 1-1/2 horizontal

to 1 vertical. Rock shall be dense, resistant to the

action of air and water, and suitable in all other

respects for the purpose intended. Rock shall be

stalled according to standards specified in Riprap,

A fiter blanket layer consisting of an appropri-

ately designed graded filter sand and/or gravel or

geotextile material shall be placed between the

riprap and base material. The gradation of the

filter blanket material shall be designed to create

a graded filter between the base material and the

riprap. A geotextile can be used as a substitu-

tion for a layer of sand in a graded filter or as the

filter blanket. Criteria for selecting an appropriate

geotextile and guidance for recommended drop

heights and stone weights are found in AASH-TO

M288-96 Section 7.5, Permanent Erosion Control

bankfull discharge or 25-year frequency dis-

Turf Reinforcement Matting

long-term protection.

10 ft/sec.

Appendix C

Specifications.

stabilization of the channels.

appreciably.

3. Excessive sediment bars do not develop.

4. Excessive erosion does not occur around culverts, bridges or elsewhere.

5. Gullies do not form or enlarge due to the

entry of uncontrolled surface flow to the

6. The determination of channel stability consid-

channel.

ers "bankfull" flow. Bankfull flow is defined

as flow in the channel that creates a water

surface that is at or near normal ground el-

reach. Excessive channel depth created by

evation for a significant length of a channel

cutting through high ground should not be

considered in determinations of bankful flow.

Where channel velocities exceed safe velocities

for vegetated lining due to increased grade or a

change in channel cross-section, or where dura-

bility of vegetative lining is adversely affected by

seasonal changes, channel linings of rock, concrete

or other durable material may be needed. Grade

The following categories for flow velocities shall

A vegetated lining may be used to stabilize chan-nels with a velocity of less than five ft/s temporary

erosion control biankets or sod shall be used on

all channels and concentrated flow areas to aid in

the establishment of the vegetated lining. Refer to

specifications Ds3 - Disturbed Area Stabilization

(With Permanent Vegetation), Ds4 - Disturbed

Area Stabilization (With Sodding), and Ss -

Slope Stabilization, Hydraulic Erosion Control

Products (HECPs) are not intended to be applied

in channels, swales or other areas where concen-

conjunction with Rolled Erosion Control Products

trated flows are anticipated, unless installed in

stabilization structures may also be needed.

apply when selecting the channel lining:

Category 1 (less than 5 ft/sec*) (Ch-1)

CHANNEL LININGS AND STRUCTURAL

FASURES

Vegetated Lining

(RECPs).

GSWCE 2016 Edition



WATER QUALITY UNIT

SCALE: N.T.S.

0





Permit # LDP22-00013

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE To reduce runoff and erosion

- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature

To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

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 any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2 -Dis-

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DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) - DS1 SCALE: N.T.S.

turbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

- 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 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. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

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.

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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. Loosen compact soil to a minimum depth of 3. Apply polyethylene film on exposed areas.

Anchoring Mulch

 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. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

- 2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
- 3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.



SOIL BACKFILL SHOULD BE WELL-



HDPE BEDDING DETAIL

1/3 DIA.

Spray-On A	Tab dhesive Ap	le 1. plication R	lequiremen
Adhesive	Water Dilution	Nozzie Type	Application (Gal./Acre)
Anionic asphalt emulsion	7:1	Coarse spray	1,200
Latex emulsion	12.5:1	Fine spray	235
Resin-in- water emulsion	4:1	Fine spray	300

NOTES:

1. APPLY ACCORDING TO PLAN 2. MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT,

- CURASOL, OR TERRATACK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 3. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.

4. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET. 5. COVER SURFACES WITH CRUSHED STONE OR GRAVEL.

- 6. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
- 7. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS DESCRIBED IN TABLE 1.
- 8. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.

9. SUPPLEMENT SURFACE COVERING AS NEEDED.





TYPICAL STORM PIPE BEDDING DETAIL EXCLUDING HDPE



4



	Prote Day Arried	Pure Live See (PLS) Per 100	¢.	I E MA				0										
BARLEY Nordeum vulagre	nae re soe	794		3 P M A	M 3 3	<i>n</i> .												
alone in moture	3 bu. (144 lbs) 1/2 bu. (24lbs)	3.3 lbs 0.6 lb	MHL P C					+ 14,000 seed per pound. Winter hardy. Use - on productive solts.										
LESPEDEZA, ANNUAL Lespedeza shiata																		
olone in mixture	40 lbs 10 lbs	0.91b 0.21b	ML P C					200,000 seed per pound. May volunteer for sev- enal years. Use inoculant EL.										
LOVEGRASS, WEEPING Eraprosits curvula	5																	
alone In mixture	4 lbs 2 lbs	0.1 lb 0.05 lb	M-L P C					1,500,000 seed per pound. May last for several years. Mix with Seriona lespedeza.										
MILLET, BROWNTOP Paricum fasciculatum																		
alone In mixture	40 lbs 10 lbs	0.9 lb 0.2 lb	MHL P C		#			137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.										
Species	Broadcast	Rates	Resource Area®	Planting	Dates by R	ISOURCE A	768	Remarks										
	Pate Per Acre ¹	Pure Live Seed PES) Per 1000 apt		J F M A	optimum deter	A S (es indicate											
MILLET, PEARI, Pennesetum glascum																		
alone	50 lbs	1.1 lbs	P C	-				88,000 seed per pound. Quick dense cover. May neach 5 feet in height. Not recommended for mixtures.				Resource		_				
CATS Avena sativa									Species	Broadcast Rates	-	Area	Sold lives i	nting Dates indicate optimi	by Resou um dates, do	Hop Area Red lines it false	dicate	Hematics
alone in moture	4 bu. (128 lbs) 1 bu. (32 lbs)	2.9 lbs 0.7 lb	P C					13,000 seed per pound. Use on productive sails. Not as a winter hardy as rise or barley.	TRITICALE X-Indicosecule	Pore L (PLD) Rate Per Acre ²	Are Seed Per 1000 IgN		JFM	A M -	JA	5 0 1	N D	
RYE Secale cereale		1941.0							alone	3 bu. (144 lbs) 3.	3 Ros	с						Use on lower part of Southern Coastal Plain and
alone In michale	3 bu (168 bs)	3.9 ks	ML		1				in moture	1/2 bµ. (24 lbs) 0.	0.0	-						n Atlantic Coastal Flatwoods only
	112.00 (20.00)	0.0.0	è i					18,000 seed per pound. Quick cover. Drought olieranit and winter hardy.	WHEAT Trittcum aestivum									
RYEGRASS, ANNUAL Lolum temdentum							t		aione in moture	3 bu. (180 lbs) 4. 1/2 bu. (30 lbs) 0.	1 Ibs 7 Ib	M-L P					-	15,000 seed per pound. Winter hardy,
alote	40 bs	0.910	¢ C					227,000 seed per pound. Dense cover. Very com- petitive and is gg to be used in matures.										
SUDANGRASS Sorghum audaneur													² Reduce	ery cover crop seeding cales	by 50% whe	in protection and the second s	ntwitt	rown our perminists if seeded too featury
alone	60 lbs	1.4 bs	P C			-		55,000 seed per pound. Good on droughly siles. Nat recommended for mixtures.					Mil, repro- P repro- C repro- (see Figu	resents the M ents the Souther relock to 2.5-6	nuntain; Blue hern Piedmo n Gouestal Pla N	Ridge; and re MLRA re; Sand Hi	t Ridges In: Diaci	and Valleys MLRAs

2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) - DS2 SCALE: N.T.S.



PERFORATED HALF-ROUND PIPE WITH STONE FILTER

Table 6-4.1 - Temporary Cover or Companion Cover Crops

PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS *

Area³

Planting Dates by Resource Area

Sold lives indicate colimum dates, dotted lives indicate permissible but marginal dates.

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Remarks



FILTER RING (FR) 6 SCALE: N.T.S.



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Species	Broadcas	st Rates	Resource Area ³		P	Sant	ting	Dat	es b	y R	esou	urce	Are	a		Remarks						
		2020		2-2-3		2-2				Sale	i lin	es inc p	dicati	e opt	e but	n dadi man	ns, di pinal	offed detec	lives 2	ind	cale	
	Rate Per Acre ²	Pure Live Seed (PLS) Per 1000 sqf		J	F	M	A	м	,	1	A	s	0	N	D							
BAHIA, PENSACOLA Paspalum notatum																						
alone or with temporary cover	60 ibs	1.4 lbs	Р		-										-	166,000 seed per pound. Low growing. Sod forming. Slow to establish. Plant with a companion crop. Will stread no berrarde						
with other perennials	30 lbs	0.7 lb	с				_				-	-	-	-	-	pastures and awns. Mix with Sericea lespe deza or weeping lovegrass.						
BAHIA, WILMINGTON Paspalum notatum																						
alone or with temporary cover	60 lbs	1.4 lb	M-L			_																
with other perennials	30 lbs	0.7 lb	р						L	ļ		ļ		Ļ	ļ	Same as above.						
BERMUDA, COMMON Cynodon dactylon		Sector Sector														-						
Hulled seed			р							1												
alone	10 lbs	0.2 lb	С		-										1	1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun						
with other perennials	6 lbs	0.7 lb														Good for athletic fileds.						
BERMUDA, COMMON Cynodon dactyfon		inter care																				
Unhulled seed	1000000																					
with temporary cover	10 lbs	0.2 lb	P	+	-							1		-	-	Plant with winter annuals.						
with other perennials	6 lbs	0.1 lb	с	-										-	-	Plant with Tall Fescue						

Very durable. Sun,

Very durable, sun,

semi-shade.

semi-shade.

Table 6-5.2- Permanent Cover Crops PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER 1

Species	Broadcast Rates	Resource Area ³	1		Plan	ting	Dat	es t	y R	eso	uroe	AN	NO.		Remarks
	5×12*11.00 × 1		50	id ir	ies in	dica	H opi	e bu	n dat	es, c gna	lotted date	line t	t ind	cate	
	Pure Live Seed (PLS) Rate Per Acre ² Per 1000 sg	n		F	м	A	м	J	J	A	s	0	N	D	
LESPEDEZA Ambro virgata Lespedeza virgata DC or Appalow Lespedeza cuneata (Dumont) G. Don)															
scarified	60 lbs 1.4 lb	M-L P C		-			-	-							300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban ar- eas. Spreading-type growth. New growth ha bronze coloration. Mix with weeping loveg- rass, common bermuda, bahia, tall fescue
unscarified	75 lbs 1.7 lb	M-L P C	Ē	F	-	-	-	-	-	-		F	F	-	or winter annuals. Do not mix with Sericea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant.
LESPEDEZA, SHRUB Lespedeza bicolor Lespedeza flumbergi															
plants	3.×3.	M-L P C	-		F								-		Provide wildlife food and cover
LOVEGRASS, WEEPING Eragrostis curvula															
alone	4 lbs 0.1 lb	M-L P						-							1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea
with other perennials	2 lbs 0.05 lb	C			+	+	+	÷.			Į.		Į.		lespedeza on roadbanks.

Table 6-5.3.

Durable Shrubs and Ground Covers for Pern

Ground covers include a wide range of low-growing plants planted toget cover large areas of the landscape. Ground covers grow slower than grasse especially the first year. Maintenance is needed to insure survival. These groun proper maintenance is planned. Maintain mulch at three-inch thickness until

Fall planting is encouraged because the need for constant watering is reestablish new roots before hot weather.

	Common Name	Scientific Name	Mature Height	Plant Sp
	Abelia	Abelia grandifiora	3-4 ft.	5 M.
	Carolina Yellow Jessamine	Gelsemium sempervirens	low	3 ft.
	Carpet Blue	Ajuga reptans	2-4 in.	3 8.
	Bearberry Coloneaster	Cotoneaster dammeri	2-4 ft.	5 ft.
	Ground Cover Cotoneaster	Cotoneaster salicifoluis 'Repens'	1-2 ft	5 ft.
	Rock Cotoneaster	Cotoneaster horizontalis	1-2 ft.	51.
	Virginia Creeper	Parthenocissue quinquefolia	low	3 8.
	Daylity	Hemerocallis spp.	2-3 ft.	2.11.
	English Ivy	Hedera helix	low	3 ft.
	Compacta Holly	llex crenata 'Compacta'	3-4 ft.	5 ft.
	Chinese Holly	llex comuta 'Rotunda'	3-4 ft.	5 11.
	Dwarf Burford Holly	llex burfordii 'Nana'	5-8 ft.	8 ft.
	Dwarf Yaupon Holly	liex vomitoria 'Nana'	3-4 ft.	5 M.
IC IC	C 2016 Editors			

GSWCC



Species	Broadcast Rates	Resource Area ¹		Ŧ	"laint	ling	Date	is b	y Re	1501	irce	Are	a		Remarks
			Sal	id än	es ins	dicati	e opti saibile	Duf	date	e, de inal	cited dated	iner L	indi	cate	
	Pure Live Seed (PLS) Rate Per Acre ² Per 1000 sqft		J	F	м	A	м	J	J	A	s	0	N	D	
BERMUDA SPRIGS Cynodon dactylon															
Coastal, Common, Midland, or Tift 44	40 cu ft 0.9 cu ft or sod plugs 3' x3'	ML			-										A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 springs.
Coastal, Common, of Tift 44		c				-								-	Same as above
Tift 78		c	-			_							-	-	Southern Coastal Plain only
CENTIPEDE Eremochioa ophuiroides															
	Block sod only	P C					_								Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in con- centrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterherdy as far as north Athens and Atlanta
CROWNVETECH Coronilla varia					1										
with winter annuals or cool season grasses	16 8	ML													100,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractiv rose, pink and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye. Inoculate see with M inocu-

Table 6-5.2- Permanent Cover Crops PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER 1

Species	Broadcast	Rates	Resource Area ³		- P	Nant	ing	Dak	is b	y Ri	8501	irce	Are	0		Remarks
				50	id in	es in p	dicati	e opti saibk	mun but	i dah marj	es, di pinal	offed date	línes 1	inde	cate	
	Rate Per Acre ² F	Pure Live Seed (PLS) Per 1000 sqf		J	F	м	A	м	J	J	A	s	0	N	D	
MAIDENCANE Panicum hemitomon																
sprigs	2' x 3' spacing	ALL					-									For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
PANICGRASS, ATLANTIC COASTAL Panicum amarum var amarukum																
	20 lbs	0.5 lb	P C	4 0.00				1000								Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza excep on sand dunes.
REED CANARY GRASS Phalaris arundinacea										1						
alone	50 lbs	1.1 b	M-L									-				
with other perrenials	30 lbs	0.7 lb	P										-			Grows similar to Tall fescue
SUNFLOWER, 'AZTEC' MAXIMILLIAN Helianthus maximilitani																
	10 lbs	0.2 lb	M-L P C					_								227,000 seed per pound. Mix with Weeping ovegrass or other low-grivoing grasses or legumes.

Common Name Scientific Name

Liriope spicata

Vinca major

Vinca minor

Rosa laevigata

Spirea bumalda

Spirea thinbergii

Rosa weuchuriana 2 ft.

Hypericum calycenum 8-12 in.

10-12 in.

12-15 in.

5-6 in.

2 ft.

3-4 ft.

3-4 ft.

1.11.

4 代

4 ft.

5 ft.

5 ft.

3 作.

5 ft.

5代.

Creeping

Liriope

Big Leaf

Periwinkle

Common

Periwinkle

Cherokee

Memoria Rose

St. Johnswort

Waterer Spirea

Anthony

Thunberg

Spirea

Rose

2 PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications. 3 M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs

P represents the Southern Piedmont MLRA C represents the Souther Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast. Flatwoods MLRAs. See Figure 6-4.1

or Perr	nanent Cover	Tat	ble 6-5.3. Durable Sh	rubs and Ground C	overs for Perma	anent Cover
ed toge n grasse ese grou vess unti	ther in considerable numbers to 25. Weeds are likely to compete, nd covers will not be used unless I plants provide adequate cover	Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
	i prante province obsequate cover.	Repandens	llex crenata	2-3 ft.	5 ft.	Sun, semi-shade.
ring is r	educed and plants have time to	Holly	'Repandens'			
		Andorra	Juniperus	2-3 ft.	5 ft.	Excellent for slopes
ipacing	Comments	Juniper	horizontalis			Sun.
			'Plumosa'			
	Also a prostrate form					
	2 feet high. Sun,	Andorra	Juniperus	1-2 ft.	5 ft.	More compact than
	semi-shade Cemi-	Compacta	horizontalia			andora

eas. Spreading-type growth. New growth has bronze coloration. Mix with weeping loveg-

Comments	Andorra Juniper	Juniperus horizontalis 'Plumosa'	2-3 ft.	5 ft.	Excellent for slopes. Sun.
Also a prostrate form 2 feet high: Sun, semi-shade, Semi- evergreen,	Andorra Compacta Juniper	Juniperus horizontalis 'Plumosa com- oacta'	1-2 ft.	5 ft.	More compact than andora.
Vine. Yellow, trumpet- like flowers. Hardy, one of best vines. Evergreen. Native to Georgia.	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	8-10 in.	4 ft.	
Need's good drainage, partial shade. Blue or white flowers, Evergreen.	Blue Rug Juniper	Juniperus horizontalis 'Wiltonii'	4-6 in.	3 ft.	Very low. Sun.
White flowers, red fruit. Sun. Evergreen, White flowers, red fruit. Sun. Evergreen,	Parsons Juniper	Juniperus davurica 'Expansa' (Squamata Parsoni)	18-24 in.	5 ft.	One of the best, good winter cover.
Semi-evergreen. Sun. Red in fall. Vine. Deciduous. Native to	Pfitzer Juniper	Juniperus chinensis 'Pfitzerana'	6-8 ft.	6 ft.	Needs room.
Georgia. Many flower colors. Full sun. Very hardy.	Prince of Wales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance
Shade only. Climbs. Sun, semi-shade.	Sargent Juniper	Juniperus chinensis 'Sargentii'	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winte color.

Juniperus conferta

Liriope muscari

Shore Juniper

Liriope

2-3 ft.

8-10 in.

3 ft.

nter color. 5 ft. Emerald Sea or Blue Pacific cultivars are good.

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DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING (DS3)

Table 6-5.2- Permanent Cover Crops PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER 1

	an f	

Species	Broadca	st Rates	Area ³		P	lant	ting	Dah	es b	y R	850	urce	Are	a		Remarks
				508	d line	na Ja P	dcat	e opti saibk	mun t but	r dað miling	es, di ginal	othed dates	àres E	inde	cade	
	Rate Per Acre	Pure Live Seed (PLS) Per 1000 sqt		J	F	м	A	M	J	J	A	s	0	N	D	
FESCUE, TALL Festuca arundinacea																Π
alone with other perennials	50 lbs	1.1 lb	M-L P								-		_			227,000 seed per pound. Use alone only on better sites. Mix with perennial lespededza or Crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
KUDZU Puerana thumbergiana											1					
Plants or crowns	3-7	apart	ALL												100000	Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good Investock forage.
LESPEDEZA SERICEA Lespedeza cuneata		alesa e									1					
scarified	60 lbs	1.4 lb	M-L P C M-L P													350,000 seed per pound. Widely adapted. Low maintenace. Mix with Weeping loveg- ress, Common bermuda, bahia, or tall lescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inocu- late seed with FI inoculant.
unscarified	75 lbs	1.7 lb	ć	H								-		_		Mix with Tall fesue or winter annuals.
seed- bearing hay	3 tons	1338 lbs	M-L P C		-								_			Cut when seed moture is mature, but be- fore, it shatters. Add Tall fescue or winter annuals.

Table 6-5.4.

Trees for Erosion Control

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES'	SPACING	PLANTING DATES
Borrow areas, graded areas, and spoil material	Sandy	Lakeland, Troup	Loblolly pine (Pinus taeda) Longleaf pine (Pinus palustris)		M-L,P 12/1-3/15 C 12/1-3/1
	Loamy	Orangeburg, Tifton	Lobiolly pine Slash pine Lobiolly pine	2	M-L,P 12/1-3/15 C 12/1-3/1
	Clay	Cecil, Faceville	Slash pine Virginia pine (Pinus virginiana)		M-L,P 12/1-3/15 C 12/1-3/1
Streambanks			Willows* (Salix speciecs)	2#x2#	ALL

1 Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

2	Type of Planting	Tree Spacing	No. of Trees Per Acre
	Trees alone	4 ft. x 4 ft.	2722
	Trees in combination with grasses and/or other plants	6 ft. x 6 ft.	1210

Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover

Mature Height Plant Spacing Comments

Spreads by runners.

Lilac flowers in spring.

Semi-shade. Lavender-blue flowers in spring.

Semi-shade Rampant grower. Not

for restricted spaces. State flower.

6-50

Rampant grower.

Semi-shade.

Sun.

Sun.

with grasses and/or other plants	OILXOIL	1210
M-L represents the Mountains: Blue	Ridge: and Ridges	and Valleys MLRAs
P represents the Southern Piedmor	it MLRA	
C represents the Southern Coastal P RAs (See Figure 6-4.1).	lain; Sand Hills; Blac	k Lands; and Atlantic Coast Flatwoods ML
	M-L represents the Mountains; Blue P represents the Southern Piedmor C represents the Southern Coastal PI RAs (See Figure 6-4.1).	M-L represents the Mountains; Blue Ridge; and Ridges P represents the Southern Piedmont MLRA C represents the Southern Coastal Plain; Sand Hills; Blac RAs (See Figure 6-4.1).

* Fertilization of companion crop is ample for this species.

OSWCC 2016 Edition

Table 6-5.1. Fertilizer Requirements							
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. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	Ξ			
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	-			
5. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	-			
 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/ 50-100 lbs./ac. 2/ 30 lbs./ac.			
 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/			

1/ Apply in spring following seeding. 2/ Apply in split applications when high rates are used. 3/ Apply in 3 split applications.

4/ Apply when plants are pruned. 5/ Apply to grass species only.

_

6/ Apply when plants grow to a height of 2 to 4 inches.

				SPACES FOR LIFE.	
THIS D THE AF DRAWI AND AF	RAWING AND T RCHITECT. REF ING WITHOUT T NY INFRINGEME	HE DESIGN RODUCTIOI HEIR WRITT ENT IS SUBJ	SHOWN IS THE N, COPYING, O EN CONSENT ECT TO LEGAL	E PROPER R USE OF IS PROHIB . ACTION.	ry of This Ited,
	လ				JEEDBREDGAA
	BROOKHAVEN PARK IMPROVEMENT	SITE DEVELOPMENT PACKAGE		CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	DORHAMMERN LAND LOTS 240 & 241, DISTRICT 18 G
					BBROO
NO.			DESCRI	s IPT I OI	N
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\vdash					
<u></u>	ISSU	ED FC	DR PER	MIT	
SHE		E ADIN INAC DET,	NG AN GE ES AILS	ND SPC	
19 DRA	002 WN BY	0.	07/01 SCALE	1/2022	2
AMN CHE BE	NIC ICKED B VIY	Y	AS S	HOW	N

Permit # LDP22-00013

C2.94

SHEET NO.



	DIVERSION SWALE DIMENSIONS								
	SWALE ID #	DEPTH OF FLOW (FT.)	TOP WIDTH (FT.)	FREE BOARD (FT.)	RIDGE WIDTH (FT.)	RIDGE HEIGHT (FT.)	Q ₁₀ (CFS)		
	#1	1.25	16.00	0.75	4.00	2.00	0.25		
T	#2	0.50	8.00	0.50	4.00	1.00	0.12		
	#3	0.50	8.00	0.50	4.00	1.00	0.02		
333377	#4	0.16	8.00	0.50	4.00	1.00	0.37		
OUND	#5	0.20	8.00	0.50	4.00	1.00	0.61		



top and bottom side blodegradable jute net. The top side net should consist of machine direction

IS DRAWING AND THE DESIGN SHOWN IS THE PROPERT

THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED. AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.

	S			GEOF
	AVEN PARK IMPROVEMEN	E DEVELOPMENT PACKAGE	OKHAVEN PARKS AND RECREATION DEPARTMENT	LAND LOTS 240 & 241, DISTRICT 18
	BROOKHA	SIT	CITY OF BROC	CITY OF BROOKHAVEN
SUB	MITTALS	S / REVISI	IONS	
NO. P4	DATE 01/26/2021	DES	SCRIPTION MIT REVISIONS	N
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	ISSU	ED FOR F	PERMIT	
SHE	ISSU ET TITLE	ED FOR F	PERMIT	
SHE	ISSU ET TITLE DRAIN	ED FOR F	ESPC	;
SHE		NAGE & DETAIL	ESPC)
SHE PRO 19 DRA	ISSU ET TITLE DRAIN JECT NO 002 WN BY	ED FOR F NAGE & DETAIL	ESPC	>
PRO 19 DRA PIL	ET TITLE	AGE &	ESPC S TE 17/01/2022 ALE AS SHOWI)
PRO 19 DRA PIL CHE PIL	ISSU ET TITLE DRAIN JECT NO 002 WN BY - CKED BY -	AGE & DETAIL	ESPC S TE 7/01/2022 ALE S SHOWI)

C2.96

				QL ONE "L	IANTITI I" ENDW	ES 'ALL
F00	TING	CLAS	SS "B"	CONCR	ETE	STEEL
F	1	CUBIC	FEET	TO	ΓAL	TIE
I	0	WALL	FOOT	CU.FT.	CU.YD.	RODS
2:1	FILL S	LOPES				
1′3"	2′2"	6.6	7.3	13.9	0.52	NONE
ľ3"	2′7"	8.3	9.1	17.4	0.64	NONE
1′3"	2′11"	9.9	10.7	20.6	0.76	NONE
ľ6"	3′8"	13.9	15.5	29.4	I.09	2- <u>3/4</u> "DIA.x2'0"
ľ6"	4′5"	18.7	20.0	38.7	1.43	2- <u>3/</u> 4"DIA.×2'0"
ľ9"	5′2"	21.2	26.2	50.4	I.87	2- <u>3/4</u> "DIA.x2'0"
2′0"	5′II"	30.3	33.2	63.5	2.35	2- <u>3/</u> 4"DIA.x2'6"
2′0"	6′8"	37.3	39.6	76.9	2.85	2-3⁄4"DIA.x3'0"
2′0"	7'5"	44.2	45.9	90 . I	3.33	2- <u>3/4</u> "DIA.x3'6"
2′0"	8′2"	51.1	49.1	100.2	3.71	2-3⁄4"DIA.x4'0"
3:I	FILL S	LOPES				
1'3"	3′2"	7.7	9.9	17.6	0.65	NONE
1′3"	3′11"	10.0	12.8	22.8	0.84	NONE
1′3"	4′8"	12.5	16.0	28.5	1.06	NONE
ľ6"	6'2"	18.8	24.0	42.8	I.58	2-%4"DIA.x2'0"
ľ6"	7′8"	26.3	32.3	58.6	2.17	2-%4"DIA.x2'0"
1′9"	9'2"	35.1	42.8	77.9	2.89	2-%4"DIA.×2'0"
2'0"	10'8"	45.4	54.5	99.9	3.70	2-%4"DIA.x2'6"
2'0"	12'2"	56.9	66.5	123.4	4.57	2-%4"DIA.×3'0"
2'0"	13'8"	66.7	(9.5	146.2	5.41	2-%4"DIA.×3'6"
2'0"	17'2"	81.0	87.9	168.9	6.25	2-%4"DIA.x4'0"
4:1	FILL S	LOPES		00.0		NONE
1.2.	3.10.	8.4	11.8	20.2	0.15	NONE
1.2.	410"		12.5	20.0	0.98	NONE
1.2.	5.10.	14.5	13.0	22.2	1.26	
		22.0	23.8		1.92	$2^{-\gamma}4^{\circ}$ DIA.X 2° U
		21°2	40.1	12.0	2.01 7.50	2^{-74} DIA X2'0"
1 7.		42.0	54.I	134 0	2.20	2^{-74} DIA.X2 ¹ U
			07.2		4.01	2-74 DIA.X2 6
20		10.0		104.0	0.10	2-74 DIA.X3 U
10		00.4	101.7	100.0	0.71	

DIMENSIONS						QUANTITIES ONE ENDWALL WITH 45°WING WALLS					
OPE	NING		WALL		F00 ⁻	TING	CLAS	SS "B"	CONCR	RETE	STEFI
D	AREA	11	C	I		Ē	CUBIC	FEET	T0	TAL	TIE
D	SQ.FT.	П	G	L			WALL	FOOT	CU.FT.	CU.YD.	RODS
					2	SLOF	ÈS .				
18"	I.8	2′6"	3′10"	l′2"	1′7"	1′3"	9.3	10.7	20.0	0.74	NONE
24"	3.1	3′0"	4′4"	l′5"	2′1"	′4"	13.1	14.4	27.5	I . 02	2-3/4"DIA.×2'0"
30"	4.9	3′6"	4'10"	1′9"	2′5"	1′6"	17.4	18.8	36.7	I . 34	2-3/4"DIA.x2'0"
36"	7 . I	4′0"	5′4"	2′0"	2′11"	l′8"	22.6	24.6	47.2	I.75	2-¾"DIA.×3′0"
42"	9.6	4′6"	5′10"	2′3"	3′6"	2′0"	29.1	34.6	63.7	2.36	2-3⁄4"DIA.×3′0"
48"	12.6	5′0"	6′4"	2′6"	4′0"	2′0"	35.9	39.1	75.0	2.78	2-3/4"DIA.×3'0"
54"	16.0	5′6"	6′10"	2′9"	4′6 ¹ /4"	2′0"	42.9	46.6	89.5	3.31	2-3⁄4"DIA.x3'0"
60"	19.6	6′0"	7′4"	3′0"	5′0 /2"	2′0"	51.8	5I . I	102.9	3.81	2-3/4"DIA.×3'0"
					3	SLOF	ES				
18"	I.8	2′6"	3′10"	l′2"	l′9"	1′3"	10.7	14.5	25.2	0.93	NONE
24"	3.1	3′0"	4′4"	l′5"	2′10"	′4"	16.6	17.8	34.4	I.27	2-3/4"DIA.×2'0"
30"	4.9	3′6"	4′10"	1′9"	3′6"	1′6"	22.9	24.4	47.3	1.71	2-3/4"DIA.x2'0"
36"	7 . I	4′0"	5′4"	2′I"	4′3"	l′8"	30.2	32.0	62.2	2.30	2-3⁄4"DIA.×3′0"
42"	9.6	4′6"	5′10"	2′5"	4′11"	2′0"	38.8	44.0	82.8	3.07	2-3/4"DIA.×3'0"
48"	12.6	5′0"	6′4"	2′8"	5′6"	2′0"	47.5	48.6	96.1	3.56	2-3/4"DIA.x3'0"
54"	16.0	5′6"	6′10"	3′2"	6′I"	2′0"	57.0	53.4	110.4	4.09	2-3/4"DIA.×3'0"
60"	19.6	6′0"	7′4"	3′6"	6′9"	2′0"	68.5	59 . I	127.6	4.73	2-3/4"DIA.x3'0"

APRON.

DIAMETER BUT NOT LESSHAN 6".

AN ELEVATION OF 6" ABOVE THE

IN A WELL-DEFINED CHANNEL, EXTEND

THE APRON UP THE CHANNEL BANKS TO

MAXIMUM TAILWATER DEPTH OR TO THE

TOP OF THE BANK (WHICHEVER IS LESS).

SHOULD BE INSTALLED BETWEEN THE

RIPRAP AND THE SOIL FOUNDATION.

Table	C-1	Graded	Rip-Rap	Stone
- abic	• •	orducu	unh unh	010110

Max.	Size Inches (Sq. Opening) Avg. ²	Min.	Filter Stone N.S.A. No. ¹
1 1/2	3/4	No. 8	FS-1
3	1 1/2	1	FS-1
6	3	2	FS-2
12	6	3	FS-2
18	9	5	FS-2
24	12	7	FS-3
30	15	12	FS-3
	Max. 1 1/2 3 6 12 18 24 30	Size Inches (Sq. Opening) Avg.² 1 1/2 3/4 3 1 1/2 6 3 12 6 18 9 24 12 30 15	Size Inches (Sq. Opening) Avg. ² Min. 1 1/2 3/4 No. 8 3 1 1/2 1 6 3 2 12 6 3 18 9 5 24 12 7 30 15 12

² At least 50% of the individual stone particles must be equal or larger than this listed size

APPENDIX C TABLE C-1 FROM THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA

THIS C THE A DRAW AND A	DRAWING AND TH RCHITECT. REPPING WITHOUT TH NY INFRINGEMEN		Z C C C C C C C C C C C C C C C C C C C	SPACES FOR LIFE.	TY OF TY HIS TED,
					NA N
	BROOKHAVEN PARK IMPROVEMENTS	SITE DEVELOPMENT PACKAGE		CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	ROOKHAVEN LAND LOTS 240 & 241, DISTRICT 18 GEORGIA
SUB NO. 1	MITTALS DATE 09.09.2022		VISIONS DESCRII PERMIT REV	D TIOI /ISIONS	
SHE PRC 19 DRA M CHE	ISSUI		NG AN DE ES AILS DATE 07/01. SCALE AS SH	и <u>т</u> ID PC /2022	

C2.98

INV-96 – HW C1 / INV: 970' / \frown

	India of a construction o	TY OF THIS ITED,
Outlet Control StructureOuter Dimensions (1) $Base(B1) = 3.5$ ft. $Width(W1) = 3.5$ ft. $Height(H) = 8$ ft. $Volume (V1) = 98$ ft^3	THE LED	(GIA
Inner Dimensions (2) Base(B2) = 2.5 ft. Width(W2) = 2.5 ft. Height(H) = 8 ft. Volume (V2) = 50 ft^3	OVEMENTS AGE	T 18 GEOF
Emergency Overflow $Base(Be) =$ 2.5 ft. $Width(We) =$ 0.5 ft. $Height(He) =$ 1 ft. $Volume (Ve) =$ 5 ft^3Rectangular Weir	PARK IMPR(LOPMENT PACH ARKS AND RECREATIC	TS 240 & 241, DISTRIC
$Base(Bw) = 1 ft.$ $Width(Ww) = 0.5 ft.$ $Height(Hw) = 1 ft.$ $Volume (Vw) = 1.5 ft^{3}$ $Volume of Concrete (V) = 41.5 ft^{3}$	OKHAVEN F SITE DEVE	LAND LC
$\begin{array}{l} \text{Buoyant Force (Focs)} = & 6225 \text{ lb.} \\ \text{Buoyant Force (Focs)} = & 6115.2 \text{ lb.} \\ \text{(Focs * FS)} < \text{Wocs} \\ \text{(Focs * FS)} = & 6726.72 \text{ lb.} \\ \text{Wocs} = & 6225 \text{ lb.} \\ \end{array}$	SUBMITTALS / REVISIONS NO. DATE DESCRIPTION	BROOKHAVEN
Concrete Anti-Floatation SlabBase (b) = 4.5 ft.Width (w) = 4.5 ft.Height (h) = 1.5 ft.Volume (Vafs) = 30.375 ft^3		
Weight (Wafs) = 4556.25 lb. Buoyancy Force (Fafs) = 1895.4 lb. (Focs + Fafs * FS) < (Wocs + Wafs)	ISSUED FOR PERMIT SHEET TITLE GRADING AND DRAINAGE ESPC DETAILS PROJECT NO. DATE	
TRUE	19002 DRAWN BY MTC CHECKED BY DMY SHEET NO. C2.99	<u>}</u> N

THICKNESS OF SLAB IN DEPTH; SEE PLAN FOR EXACT LOCATION; SAW CUT JOINTS WILL NOT BE ACCEPTED. ADJACENT SURFACE VARIES, -SEE PLANS - 3000 PSI CONCRETE @ 28 DAYS $-R\frac{1}{2}$ · A A A . 4 4 - 6X6X1.4X1.4 WELDED WIRE FABRIC (WWF), 1 <u>1</u>" CLEAR – 3", TYP 🖌 4 4 4 - AGGREGATE BASE COURSE - COMPACTED SUBGRADE <u>||___||||__</u> CONCRETE PAVEMENT (LIGHT DUTY) 2 SCALE: N.T.S. 🗕 B - TOP OF MULCH OR FINISH GRADE SET $\frac{1}{2}$ " BELOW CURB; SEE PLANS FOR LOCATION OF PLANT BEDS OR LAWN AREAS 1/2" EXP. JT.

- ADJACENT SURFACE VARIES $\frac{1}{2}$ " ASPHALTIC EXPANSION JOINT (WHEN ADJACENT SURFACE IS CONCRETE) - 3000 PSI CONCRETE @ 28 DAYS

PROVIDE EXPANSION JOINTS 30' O.C. (MAX.), AT ENDS AND MIDPOINTS OF RADIUS RETURNS, AND AT ANY

- COMPACTED SUBGRADE

1. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS.

NOTES:

6

2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 250'

SCALE: N.T.S.

ROLL DOWN CURB TRANSITION

►A

1 ' ⊿ . √

ROLLED TYPE

~4"R

Δ 7 Δ . Δ

_____24"

SECTION A-A

ROLLED TYPE CURB AND GUTTER

(WAIVER REQUIRED)

CURB & GUTTER

1'-0"

SLOPE

-

3. CONCRETE SHALL BE CLASS A

3500 PSI @ 28 DAY.

1"/FT.

NOTES: 1. FIBER REINFORCEMENT MAY BE USED IN PLACE OF WWF

STANDARD TYPE

CURB & GUTTER

R

BROOKHAVEN PARK IMPROVEMENTS SITE DEVELOPMENT PACKAGE **IENT** DEP ATION RECRE AND PARKS HAVEN BROOKH ОF CIT N SUBMITTALS / REVISIONS NO DATE DESCRIPTION ISSUED FOR PERMIT SHEET TITLE SITE DETAILS PROJECT NO. DATE 19002 07/01/2022 DRAWN BY MTC SCALE AS SHOWN CHECKED BY DMY SHEET NO. C4.00

— C

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GATE SIZING CHART

		SING	GLE LEAF G	ATES			
SQ. HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTING C	RD HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTINGS C	FRAME B	
	3'1"			3'1-1/2"		2'8-1/2"	
	3'7"			3'7-1/2"		3'2-1/2"	
3" CR. BU. HINGE & OR LATCH POST 3" 3" C. 100 CR 10	4'1"			4'1-1/2"]	3'8-1/2"	
~9 w	5'1'		10 "	5'1-1/2"	SONLLISS BULLISS BULLISS SONLLISS 2'8-1/2" 3'2-1/2" 3'2-1/2" 3'2-1/2" 3'8-1/2" 3'8-1/2" 4'8-1/2" 5'8-1/2" 6'8-1/2" 6'8-1/2" 9'8-1/2" 3'8-1/2" 9'8-1/2" 3'2-1/2" 10'8-1/2" 3-1/2" 10'8-1/2" 3-1/2" 10'8-1/2" 3-1/2" 10'8-1/2" 3-1/2" 10'8-1/2" 3-1/2" 10'8-1/2"	4'8-1/2"	
	6'1"	-	3	6'1-1/2"			
	7'1"	N .	N.		7'1-1/2"	2 1/	6'8-1/2"
	8'1"		0	8'1-1/2"		7'8-1/2"	
	9'1"		4 0	9'1-1/2"	1	8'8-1/2"	
	10'1"			10'1-1/2"	SOULL S BONH WAL S S S S S S S S S S S S S S S S S S S		
			6-5/8"	10'2-1/2"	3-1/2"	9'8-1/2"	
			4"	11'1-1/2"	2-1/4"	10'8-1/2"	
			6-5/8"	11'2-1/2"	3-1/2"	10'8-1/2"	
			4"	12'1-1/2"	2-1/4"	11'8-1/2"	
			6 5/0"	12'2-1/2"	3_1/2"	11'8-1/2"	
			0-0/0	13'1-1/2"	0-1/2	12'7-1/2"	

DOUBLE LEAF GATES																				
NOMINAL	SQ. HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTING C	RD HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTINGS C	FRAME B													
6'0"		6'0"		3" OD	6'0-1/2"		2'8-1/2"													
7'0"			7'0"			7'0-1/2"		3'2-1/2"												
8'0"	"H2"	8'0"	8'0" 10'0" 12'0" 14'0" 16'0" 18'0"		8'0-1/2"		3'8-1/2"													
10'0"	3.6 ² 1	10'0"		IO II	10'0-1/2"		4'8-1/2"													
12'0"		12'0"		4	12'0-1/2"	2 1/4'	5'8-1/2"													
14'0"		14'0"			14'0-1/2"		6'8-1/2"													
16'0"		16'0"															Q	16'0-1/2"		7'8-1/2"
18'0"	3	18'0"		4" C	18'0-1/2"		8'8-1/2"													
20'0"		20'0"			20'0-1/2"		9'8-1/2"													
"				6-5/8"	20'2-1/2"	3-1/2"	9'8-1/2"													
22'0"				4"	22'0-1/2"	2-1/4"	10'8-1/2"													
"				6-5/8"	22'2-1/2"	3-1/2"	10'8-1/2"													
24'0"				4"	24'0-1/2"	2-1/4"	11'8-1/2"													
"				G E/0"	24'2-1/2"	3_1/2"	11'8-1/2"													
26'0"				0-0/0	26'0-1/2"	- 1/2	12'7-1/2"													

	COR END	NER & POST	LINE	De	HOLE DIA	
Ж НТ	А	В	С	D		
	4'-3"	7'-3"	3'-11 3/4"	6'-11 3/4"	3'-0"	12"
	5'-3"	7'-8"	4'-11 3/4"	7'-6"		
	6'-0 5/8"	9'-9 5/8"	5'-8 7/8"	9'-5 7/8"	3'-9"	12"
	8'-0 5/8"	12'-3 5/8"	7'-8 7/8"	11'-11 7/8"	4'-3"	12"
	10'-0 5/8"	13'-1"	9'-8 7/8"	12'-8"		
	12'-0 5/8"	16'-6 5/8"	11'-8 7/8"	16'-2 7/8"	4'-6"	12"

- CHAINLINK FENCE NOTES:
- ALL POSTS AND RAILS SHALL BE LOCATED OUTSIDE THE PLAYING FIELDS W/FABRIC TO THE INSIDE.
- 2. FOR POSTS SIZES LARGER THAN 3", PROVIDE WELDED CONNECTIONS BETWEEN VERTICAL POSTS AND HORIZONTAL RAILING.
- 3. ALL RAILS SHALL BE 1-5/8"X1/4" ROLL FORMED STEEL OR EQUAL C TYPE RAIL POST.
- 4. ALL POSTS SHALL BE EQUIPPED WITH EITHER LINE POST CAPS OR STANDARD CAPS TO KEEP MOISTURE OUT OF POST.
- 5. ALL FENCING SHALL BE KNUCKLED TOP AND BOTTOM. 6. SEE FENCING CHARTS FOR CORNER POST AND LINE POST REQUIREMENTS.
- 7. CHANGES IN REQUIRED PLANS DUE TO SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL.
- 8. ALL FIELD ACCESS GATES TO BE SINGLE PANELS UNLESS NOTED OTHERWISE ON PLANS.
- 9. SOFT STEEL TIES. (9 GAUGE STEEL TO MATCH FENCE FABRIC COATING.)
- 10. MID-RAIL ON FENCING OVER 6'. 11. FENCING HT.: 4' AND UNDER 1 BAND PER FOOT. FENCING HT.: 5' AND ABOVE 1 BAND LESS THAN HT. OF FENCE.

NOTE: ALL FENCE FABRIC, POSTS, RAILS, HARDWARE, ETC., TO BE BLACK FUSED BONDED. NOTE WIRE GAUGE SPECIFICATIONS REFER TO CORE WIRE SIZE ONLY (NOT CORE WIRE PLUS FINISH COATING)

NOTES:

- NOTE: ALL FENCING TO BE BY AMERISTAR FENCE CO., OR APPROVED EQ. (1-800-321-8724)
- INSTALL ALL COMPONENTS, FOOTINGS, ETC. PER MANUFACTURER SPECIFICATIONS.
- THIS DETAIL HAS BEEN MODIFIED TO REFLECT SPECIFIC PROJECT DETAILS.

DECORATIVE GUARD RAIL

SCALE: N.T.S.

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 \sim CENTER 1¹/₂" SCH 40 SLEEVE IN CENTER OF CONCRETE TO RECEIVE GATE STOP

- 3000 PSI CONCRETE @ 28 DAYS

NOTE: WHEN GATES ARE LOCATED IN CONCRETE PLAZAS OR SIDEWALKS, THICKEN SLAB TO 8" FOR 1' DIA. AROUND POST AND CORE DRILL 1¹/₂" OPENING FOR GATE STOP AFTER GATES ARE INSTALLED. MAINTAIN 2" DISTANCE FROM EDGE OF ANY SLAB WHILE CORE DRILLING.

GATE STOP IN ASPHALT