# **BRIARWOOD PARK POOL PROJECT**

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# National Flood Hazard Layer FIRMette



THIS SITE IS LOCATED WITHIN ZONE X AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C00521 FOR UNINCORPORATED DEKALB COUNTY, GEORGIA.

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. GEORGIA SOIL AND WATER **GSWCC** Aaron J St Pierre Level II Certified Design Professional 0000085101 CERTIFICATION NUMBER ISSUED: 08/28/2018 EXPIRES: 08/28/2021 NO

AARON J ST PIERRE, CERTIFIED DESIGN PROFESSIONAL

**BID SET** 

# SITE DEVELOPMENT PACKAGE

PREPARED FOR:

CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT

# **OWNER/DEVELOPER** CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 CONTACT: BRIAN BORDEN, DIRECTOR 404-637-0562 DESIGNER LOSE DESIGN LANDSCAPE ARCHITECTURE/ARCHITECTURE/CIVIL **ENGINEERING/PLANNING** 220 WEST CROGAN STREET, SUITE 100 LAWRENCEVILLE, GEORGIA 30046 PHONE: 770-338-0017 CONTACT: AARON ST. PIERRE CONSULTANTS Legend **FEMA** With BFE or Depth Zone AE, AO, AH, VE, AR CIAL FLOOD AQUATIC DESIGNER: Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X WATER TECHNOLOGY, INC. Future Conditions 1% Annual Chance Flood Hazard Zone X 100 PARK AVE. Area with Reduced Flood Risk due to Levee. See Notes. Zone X AZARD Area with Flood Risk due to Leve BEAVER DAM, WI 53916 NO SCREEN Area of Minimal Flood Hazard Zo Effective LOMRs (920) 887-7375 GENERAL - - - Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwa B 20.2 Cross Sections with 1% Annual Chan SURVEYOR: <u>17.5</u> Water Surface Elevation (8)--- Coastal Transect Base Flood Elevation Line (BFE) TERRA MARK LAND SURVEYING, INC. Jurisdiction Boundar ---- Coastal Transect Baselin Profile Baseline 1396 BELLS FERRY ROAD Hydrographic Feature Digital Data Available MARIETTA, GEORGIA 30066 No Digital Data Available PHONE: 770-421-1927 The pin displayed on the map is an approxin pint selected by the user and does not rep a authoritative property location. map complies with FEMA's standards for the use of ital flood maps if it is not void as described below. > basemap shown complies with FEMA's basemap noritative NFHL web services provided by FEMA. This ma exported on 6/12/2019 at 3:29:07 PM and does not ect changes or amendments subsequent to this date ar . The NFHL and effective information may change or s map image is void if the one or more of the following ma elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, IRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for egulatory purposes



# **GENERAL NOTES**

- 1. THE CONTRACTOR IS TO CHECK AND VERIFY ALL MEASUREMENTS, DIMENSIONS, LEVELS, PLAN ELEVATIONS, INVERTS, ETC. BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK, AND IS TO BE RESPONSIBLE FOR THE SAME. REMEDIAL WORK RESULTING
- FROM LACK OF VERIFICATION WILL BE AT CONTRACTOR'S SOLE EXPENSE. 2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS/HER WORK, AND
- SHALL BEAR THE COST OF REPLACING SAME. 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC.
- 4. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO SUCH PROPERTY
- 5. THE SITE SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING IMPROVEMENTS PER THESE PLANS. 6. UPON RECEIPT OF POINT COORDINATE DATA, THE CONTRACTOR SHALL RUN AN
- INDEPENDENT VERTICAL CONTROL TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE THROUGH GIVEN POINTS TO CONFIRM GEOMETRIC DATA AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION. 7. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON
- FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
- 8. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 9. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE/SHE SHALL ALSO COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING LAWS, ORDINANCES OR REGULATIONS RELATING TO BUILDING SIDEWALKS, STREETS, WATER MAINS, SEWERS, BLASTING, PUBLIC STRUCTURES, ETC.
- 10. THE CONTRACTOR ACKNOWLEDGES AND AGREES THAT THE WORK IS ENTIRELY AT THE CONTRACTOR'S RISK UNTIL SITE IS ACCEPTED, AND THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR PROTECTION OF THE PROJECT AND PUBLIC SAFETY. THE CONTRACTOR WILL INDEMNIFY THE OWNER AND LOSE & ASSOCIATES, INC. FROM LIABILITY AT THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.
- 11. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON SITE SURVEY PROVIDED BY OTHERS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 12. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE WORK AND THE PUBLIC, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS OR OTHER DEVICES SOLELY AT THE DETERMINATION OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, WHETHER CAUSED BY THE CONTRACTOR, SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF THEIR EMPLOYEES.
- 14. ALL PAY ITEMS HAVE BEEN EXPLICITLY SET FORTH AS SUCH IN THE PROPOSAL, ALL OTHER ITEMS OF COST ARE TO BE INCLUDED IN THE PRICE OF THE ITEMS ACTUALLY BID UPON.
- 15. ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS. 16. THE CONTRACTOR SHALL PROVIDE SUCH BRACING, SHEETING AND SHORING, BLASTING PROTECTION, WARNING LIGHTS AND BARRICADES, ETC. AS MAY BE NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY FOR EMPLOYEES AND THE GENERAL PUBLIC. THE
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY STATUTES AND RULES REQUIRING CERTAIN PROTECTIVE PERSONAL APPAREL SUCH AS HARD HATS, EAR PLUGS, EYE SHIELDS, PROTECTIVE SHOES, ETC. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY OR LIABILITY FOR ACTIONS TAKEN BY THE CONTRACTOR WHICH ENDANGER LIFE OR PROPERTY. 17. THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL
- CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS, NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.
- 18. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE LAND OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
- 19. ALL SURPLUS EXCAVATION SHALL BE PLACED ON-SITE IN A LOCATION DESIGNATED BY OWNER
- 20. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.
- 21. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
- 22. THE CONTRACTOR SHALL PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER
- 23. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.
- 24. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT GSWCC MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION.
- 25. THE CONTRACTOR SHALL COORDINATE ALL ROAD CLOSURES, EXCAVATIONS, ETC. WITH LOCAL JURISDICTIONS. ALL TEMPORARY LANE CLOSURES, EXCAVATIONS, BORINGS, TRAFFIC CONTROL, ETC. SHALL BE DONE IN COMPLIANCE WITH LOCAL REQUIREMENTS.
- 26. THE CONTRACTOR SHALL PERFORM ALL QUANTITY TAKEOFFS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT. LOSE DESIGN, INC. ACCEPTS NO RESPONSIBILITY NOR LIABILITY FOR QUANTITY TAKEOFFS PERFORMED FOR THIS PROJECT.

# DEMOLITION

1. DEMOLITION INCLUDES THE FOLLOWING WITHIN THE PROPERTY LINES: 1.1. TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED

- AREA PRIOR TO COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE). 1.2. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO DEMOLITION WORK.
- DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS. 1.3. 1.4. DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING SITE UTILITIES IN PLACE (WHICHEVER IS APPLICABLE).

# **DEMOLITION (CONT.)**

- 2. ALL DEMOLISHED MATERIALS (EXCLUDING FOREIGN ITEMS AS LISTED IN 'GENERAL') BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED BY THE OWNER'S REP. DISPOSE OF OFF THE OWNER'S PROPERTY AT NO ADDITIONAL COST. 3. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, ETC., THAT ARE REMOVED SHALL BE
- REMOVED TO FULL DEPTH. ALL PAVEMENT, SIDEWALK, AND CURB SHALL BE SAW CUT IN ORDER TO OBTAIN NEAT LINES AND SMOOTH TRANSITIONS TO NEW SURFACES. 4. ALL ITEMS OF CONSTRUCTION REMAINING AND NOT SPECIFICALLY MENTIONED THAT
- INTERFERES WITH THE NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE OWNERS REPRESENTATIVE AT NO ADDITIONAL COST. 5. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, TREES, UTILITIES, AND
- STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE WILL BE REPAIRED TO LOCAL STANDARDS AT NO ADDITIONAL COST TO THE OWNER. 6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS PRIOR TO BEGINNING WORK.
- 7. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR DEMOLITION PURPOSES AND ONLY WITH PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE.
- 8. OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE.
- 9. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED. 10. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE
- BEEN COMPLETED AND VERIFIED IN WRITING. 11. REMOVE: REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE
- REINSTALLED, SALVAGED, OR TO REMAIN. 12. REMOVE, REINSTALL, AND RELOCATE: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE.
- REINSTALL ITEMS IN LOCATIONS INDICATED. 13. EXISTING TO REMAIN: PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT CONSTRUCTION. WHEN PERMITTED BY THE ENGINEER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.
- 14. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. 15. CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE
- CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING: 15.1. DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, INCLUSIVE OF STARTING AND ENDING DATES FOR EACH ACTIVITY.
- DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES. IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE 15.3. STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.
- 16. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS.
- 16.1. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY ENGINEER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES.
- 17. UTILITY REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE. 17.1. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW
- THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES. 17.2. ALL EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY CONTRACTOR. LOSE & ASSOCIATES, INC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES INDICATED ON THE CONSTRUCTION DOCUMENTS. VERIFY LOCATION OF EXISTING UTILITIES AND EXERCISE EVERY PRECAUTION WHEN WORKING ON OR NEAR THESE AREAS TO AVOID DAMAGE TO THESE EXISTING FACILITIES. UTILITY LINES MAY BE ENCOUNTERED IN EXCAVATION THAT WERE NOT KNOWN OR SHOWN TO EXIST. SO CAUTION SHALL BE TAKEN IN ALL EXCAVATIONS. ACTIVE OR INACTIVE UTILITIES ENCOUNTERED BY THE CONTRACTOR SHALL BE HANDLED IN ACCORDANCE WITH THE REQUIREMENTS OR THE UTILITY COMPANIES.
- 18. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
- 18.1. ERECT TEMPORARY PROTECTION, BARRICADES AS PER LOCAL GOVERNING AUTHORITIES. 18.2. PROTECT EXISTING SITE IMPROVEMENTS AND APPURTENANCES TO REMAIN.
- 19. EXPLOSIVES: USE OF EXPLOSIVES WILL NOT BE PERMITTED. 20. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON
- ADJACENT SURFACES AND AREAS. 21. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE
- START OF DEMOLITION. 22. DAMAGES: PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY
- DEMOLITION OPERATIONS AT THE CONTRACTORS COST 23. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED
- MATERIALS TO ACCUMULATE ON-SITE
- 24. BURNING: DO NOT BURN DEMOLISHED MATERIALS.
- 25. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH EXISTING FACILITIES.
- 25.1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED
- TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS. PROVIDE TEMPORARY FENCES, BARRICADES, COVERINGS OR OTHER PROTECTIONS 25.2. TO PRESERVE EXISTING ITEMS INDICATED TO REMAIN AND TO PREVENT INJURY OR DAMAGE TO PERSONS OR PROPERTY. APPLY PROTECTIONS TO ADJACENT PROPERTIES AS REQUIRED.

# **CLEARING & GRUBBING**

- 1. DO NOT EXCEED CLEARING AND GRUBBING LIMITS OF CONSTRUCTION LINES INDICATED ON THE PLANS.
- 2. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE CROSSED BY HEAVY EQUIPMENT OR USED FOR STORING HEAVY EQUIPMENT OR MATERIALS.
- NO EQUIPMENT SHALL BE STORED UNDER THE DRIP LINE OF TREES TO REMAIN 4. DO NOT FALL ANY TREES OR PUSH PILES OF DEBRIS AGAINST TREES TO REMAIN. 5. REMOVE ALL STUMPS, ROCKS, ASPHALT & CONCRETE DEBRIS, ETC. WITHIN CLEARING
- LIMITS AND DISPOSE OFF SITE IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS. 6. CONTACT ALL UTILITY AUTHORITIES WHO HAVE LINES WITHIN THE CLEARING AND
- **GRUBBING LIMITS BEFORE STARTING WORK**
- 7. ALL EROSION CONTROL SEDIMENT BARRIERS, SILT FENCES, AND TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO STARTING CLEARING AND GRUBBING OPERATIONS
- 8. CONTRACTOR TO STAKE TRAIL CENTERLINES (WHEN APPROPRIATE) & LIMITS OF CLEARING FOR REVIEW BY LOSE & ASSOCIATES, INC. PRIOR TO BEGINNING CLEARING OPERATIONS; TREES WITHIN GRADING LIMITS TO BE SAVED WILL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE. FIELD CHANGES TO GRADING PLANS SHALL BE MADE FOR SMOOTH TRANSITION OF GRADES AROUND ALL TREES.
- 9. SEE SPECIFICATIONS FOR TREE CLEARING REQUIREMENTS AND PENALTIES FOR DAMAGES TO TREES DESIGNATED TO REMAIN.
- 10. ALL CLEARING SHALL BE LIMITED TO AREAS TO BE GRADED WITHIN 14 CALENDAR DAYS PER STATE PERMITS.

# **EXISTING UTILITIES**

- UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, LOSE & ASSOCIATES. OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL 811 TO HAVE EXISTING UTILITIES MARKED
- 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.
- 3. LOSE DESIGN, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE BASE SURVEY INFORMATION PROVIDED BY OTHERS.

# DEVELOPMENT

1. NOTIFY OWNER AND LOSE DESIGN, INC. AT 50, 95, AND 100 PERCENT COMPLETION OF EVERY PHASE OF CONSTRUCTION

- 2. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 3. ALL CONSTRUCTION TO COMPLY WITH LOCAL/COUNTY ZONING AND CODES STANDARDS AND STATE OF GEORGIA STORMWATER REGULATIONS.

# GRADING

- 1. TOPSOIL SHALL BE STORED ON SITE IN LOCATIONS APPROVED BY THE OWNERS REPRESENTATIVE AND OUTSIDE AREAS PRONE TO FLOODING. DRAINAGE SHALL ROUTE AROUND THESE TOPSOIL STOCKPILES FOR THE DURATION OF THE GRADING OPERATIONS. EROSION CONTROL MEASURES SHALL PREVENT LOSS OF TOPSOIL MATERIAL. UNSUITABLE SOILS SHALL BE UNIFORMLY SPREAD ACROSS NON-STRUCTURAL FILL AREAS,
- COVERED WITH TOPSOIL, AND VEGETATED PER DRAWINGS. 3. FILL AREAS SHALL BE PROOF-ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATION. AREAS WHICH ARE SOFT OR UNSTABLE SHALL BE UNDERCUT UNTIL STABLE SOILS ARE FOUND. RECOMPACTION OF THESE SOILS TO 98 PERCENT MAXIMUM DRY DENSITY (AS PER ASTM D698 STANDARD PROCTOR) WILL BE ALLOWED, UNDER THE DIRECTION OF A QUALIFIED
- SOILS ENGINEER. 4. CUT AREA SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. SOFT OR UNSTABLE SOILS SHALL BE SCARIFIED TO A DEPTH OF 12" AND RECOMPACTED TO 98 PERCENT MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR).
- 5. CONFIRMATION OF ALL COMPACTION REQUIREMENTS SHALL BE CONFIRMED BY A QUALIFIED SOILS ENGINEER. SEE SPECIFICATION FOR SOIL COMPACTION RATES. ALL FILL AREAS SHALL BE RAISED IN LIFTS NOT EXCEEDING 6 INCHES.
- 7. ALL AREAS WILL BE GRADED TO PROVIDE PROPER DRAINAGE AND PREVENT STANDING WATER. 8. ELEVATIONS SHOWN ON THE PLANS IS THE FINISH GRADE ELEVATION.
- GRADING SHALL BE SEQUENCED SO THAT BASE STONE IS PLACED WITHIN 14 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
- 10. ALL GRADING OPERATIONS SHALL BE COMPLETED IN COMPLIANCE OF CITY, COUNTY, AND STATE LAND DISTURBANCE PERMITS AS REQUIRED.

# LAYOUT

- ALL LAYOUT MEASUREMENTS ARE TO CENTERLINE UNLESS OTHERWISE NOTED. COORDINATE POINTS SHOWN ARE TAKEN FROM BASE INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL CROSS CHECK BETWEEN COORDINATE LAYOUT AND PLAN
- DIMENSIONS PRIOR TO COMMENCING WORK. 3. LOSE AND ASSOCIATES, INC., ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE BASE INFORMATION AS PROVIDED. CONTRACTOR IS TO VERIFY ALL BASE INFORMATION AS NECESSARY AND TO ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO ANY LAYOUT WORK
- 4. ALL WORK SHALL BE COMPLETED TO THE LEVEL INDICATED BY THE SCOPE OF WORK LISTED IN THE BID DOCUMENTS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ALL DAMAGED AND/OR DISTURBED MONUMENTS, STAKES, ETC.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL USE DIMENSION, COORDINATES, AND OTHER INFORMATION PROVIDED ON LAYOUT PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING REQUIRED ON THE PROJECT. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN EXISTING FACILITIES AND PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL NOTIFY LOSE DESIGN, INC. WITHIN 24 HOURS OF ANY LAYOUT DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. ALL ADDITIONAL COSTS, INCLUDING BUT NOT LIMITED TO REMEDIAL CONSTRUCTION, ADDITIONAL SITE VISITS, OR ENGINEERING SERVICES AND FEES, ETC., INCURRED DUE TO THE FAILURE TO FOLLOW THIS PROCEDURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 9. CONTRACTOR SHALL PROVIDE ADEQUATE LAYOUT INFORMATION TO DEMONSTRATE, TO THE MAXIMUM EXTENT PRACTICAL, THAT NO CONFLICTS BETWEEN VARIOUS TRADES EXIST.
- 10. DRAINAGE STRUCTURES ARE SHOWN TO INDICATE CASTING TYPE AND LOCATION. CONTRACTOR SHALL STAKE PROPOSED PAVING, STRUCTURES, CURBS, ETC. TO ENSURE DRAINAGE STRUCTURES ARE PLACED TO AVOID CONFLICTS. DRAINAGE STRUCTURES ARE NOT DRAWN TO SCALE.

# ADA REQUIREMENTS

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ("ADA") AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36CFR PARTS 1190 AND 1191. ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES
- 2. CONTRACTOR TO COORDINATE ALL INSPECTIONS AS REQUIRED BY THE LOCAL ADA COMPLIANCE OFFICE.
- 3. AT ALL INTERSECTION OF TRAILS, SIDEWALKS, PLAZAS, AND OTHER INSTANCES WHERE 90 DEGREE TURNS CAN TAKE PLACE, THE MAX. SLOPE IN ALL DIRECTIONS IS 2 PERCENT.

# **TREE PROTECTION / REMOVAL**

- 1. EXISTING TREES ON-SITE TO BE REMOVED HAVE BEEN MARKED ON THE SITE PLANS WITH AN "X". ONLY THOSE MARKED TREES SHALL BE REMOVED. CONTRACTOR SHALL PROCEED WITH THE FOLLOWING FOR TREES TO BE REMOVED ONLY:
- 1.1. REMOVE THE TOP OF ALL TREES INCLUDING BRANCHES AND TRUNK IN AN ORGANIZED AND SAFE MATTER BEING CAREFUL NOT TO DAMAGE ANY TREES TO REMAIN OR OTHER SITE FEATURES.
- 1.2. ALL STUMPS OF TREES BEING REMOVED SHALL BE COMPLETELY EXCAVATED AND REMOVED. ALL EXCAVATED HOLES, FROM REMOVAL OF TREE ROOTS, REMAINING ON-SITE SHALL BE REMEDIATED WITH ENGINEERED FILL AND COMPACTED TO MEET SPECIFICATIONS.
- 1.3. ALL TREE WASTE, INCLUDING LIMBS, BRANCHES, TRUNKS, ROOTS OR OTHER, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF IN A LEGAL MANNER.
- 2. ALL TREES THAT HAVE NOT BEEN MARKED ON THESE PLANS WITH AN "X" SHALL BE PROTECTED ON SITE DURING CONSTRUCTION FROM ANY AND ALL DAMAGE. CONTRACTOR SHALL PROCEED WITH THE FOLLOW FOR TREES TO BE PROTECTED ONLY: 2.1. ALL PROTECTED TREES THAT ARE LOCATED NEAR OR WITHIN THE LIMITS OF
- CONSTRUCTION SHALL BE PROTECTED BY TREE PROTECTION FENCING PER DETAILS. 2.2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY PROTECTED TREES THAT ARE DAMAGED DURING CONSTRUCTION.
- 2.3. IF PROTECTED TREES ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION, THEY MUST BE PROTECTED DURING SITE CONSTRUCTION. 2.4. IF GRADING, EXCAVATION OR PAVING IS SHOWN TO OCCUR NEAR THE PROTECTED
- TREE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH A LOCAL TREE SURGEON FOR RECOMMENDATIONS ON TREE PROTECTION. 2.5. IF DISCREPANCIES OCCUR AND IT IS ANTICIPATED THAT THE PROTECTED TREES WILL
- BE DAMAGED DUE TO PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGNER IMMEDIATELY OF ANY CONFLICT. THE CONTRACTOR SHALL ALSO SUBMIT RECOMMENDATIONS TO THE DESIGNER 2.6.
- FROM THE TREE SURGEON FOR PROTECTION MEASURES. 2.7. CONTRACTOR SHALL BE RESPONSIBLE FOR IN-FIELD COORDINATION WITH THE DESIGNER TO RESOLVE ANY CONFLICTS THAT MAY ARISE DUE TO PROTECTED
- TREES 2.8. IF THE CONTRACTOR LOCATES TREES IN THE FIELD THAT ARE NOT SHOWN ON THESE PLANS OR THAT ARE MISLOCATED, THE CONTRACTOR SHALL NOTIFY THE DESIGNER FOR REVIEW OF THE TREE AND ITS LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH 2.9. SUB-CONSULTANTS AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE THE PROTECTION OF THE TREES TO REMAIN

# TREE PROTECTION / REMOVAL (CONT.) 2.10. IN THE EVENT OF UTILITY LINE ADJUSTMENTS, ADDITIONS OR RELOCATIONS, THE

- CONTRACTOR SHALL WORK WITH THE UTILITY PROVIDER AND INSTALLER TO ROUTE THE UTILITY LINES OUTSIDE OF THE TREE PROTECTION ZONE. IF THIS IS NOT POSSIBLE, RECOMMENDATIONS MUST BE OBTAINED FROM A LOCAL TREE SURGEON FOR REMEDIATION OPTIONS.
- 2.11. CONTRACTOR MUST SUBMIT ALL REPORTS OR RECOMMENDATIONS FOR TREE PRUNING OR ALTERING TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO RENDERING SERVICES.

### BROOKHAVEN TREE PROTECTION NOTES: 1. TREES IDENTIFIED TO BE PRESERVED AND COUNTED TOWARD THE TREE DENSITY

- REQUIREMENTS SHALL HAVE TEMPORARY CHAIN LINK FENCE OR FOUR FOOT ORANGE TREE PROTECTION FENCING AND STAKED HAY BALES INSTALLED AT OR BEYOND THE CRITICAL ROOT ZONE. A SIGN SHALL BE PLACED ON THE FENCING STATING "KEEP OUT'. A TWO-INCH LAYER OF MULCH AND MYCORRHIZAE FUNGI SHALL BE APPLIED OVER THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION.
- PRE-CONSTRUCTION LIMB PRUNING SHALL BE PERFORMED ON ANY TREES WITHIN THE CONSTRUCTION ZONE, THAT ARE TO BE PRESERVED, TREE BRANCHES SHALL BE PRUNED TO AN APPROPRIATE HEIGHT TO AVOID DAMAGE BY CONSTRUCTION EQUIPMENT AND STRUCTURES. ALL DEAD BRANCHES GREATER THAN ONE INCH IN DIAMETER SHOULD BE REMOVED TO REDUCE THE RISK OF DEAD BRANCH FAILURE TO CONSTRUCTION PERSONNEL. ALL TREE PRUNING IS TO BE DONE USE ANSI STANDARD A300 (PART 1) FOR PRUNING. NO GAFF OR SPIKE CLIMBING TO BE USED TO ACCESS LIMBS.
- ROOT PRUNING IS TO BE DONE WHENEVER ROOTS OF TREES ARE EXPOSED DURING CONSTRUCTION, ALL ROOT PRUNING TO BE DONE USING ANSI STANDARD A300 (PART 8) FOR ROOT MANAGEMENT. THE ROOT ENDS ARE TO BE CUT OFF CLEANLY AND THE ROOTS COVERED BY DIRT OR PLASTIC FOR AS LONG AS THE ROOT IS EXPOSED. WHEN PERFORMING A TRENCH EXCAVATION. THE ROOTS HAVE TO BE CUT ON THE TREE-SIDE OF THE TRENCH PRIOR TO EXCAVATING. NO ROOT PRUNING SHALL BE ALLOWED IN THE STRUCTURAL ROOT PLATE OF ANY SAVED TREE.
- IN TREE SAVE AREAS WHERE LARGE EQUIPMENT WILL BE OPERATING, A TEMPORARY BRIDGE OVER THE ROOT SYSTEM OF THE TREE SHALL BE CONSTRUCTED INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATS OR LANDSCAPE TIMBERS AND PLYWOOD. AREA OF BRIDGE WILL TYPICALLY ADHERE TO THE AREA UNDER THE DRIPLINE FOR ALL TREES. TEMPORARY BRIDGE DETAIL MUST BE INCLUDED ON THE TREE PROTECTION AND REPLACEMENT PLAN.
- NO PERSON ENGAGED IN THE CONSTRUCTION OF ANY IMPROVEMENT OR SITE WORK SHALL ENCROACH OR PLACE SOLVENTS, MATERIAL, CONSTRUCTION MACHINERY OR TEMPORARY SOIL DEPOSITS WITHIN THE CRITICAL ROOT ZONE OF SPECIMEN TREES, TREE SAVE AREAS, TRANSITIONAL BUFFER ZONES, STREAM BUFFERS AND/OR STATE BUFFERS.
- ALL TREE PROTECTION DEVICES MUST REMAIN IN FUNCTIONING CONDITION UNTIL 6. COMPLETION OF THE PROJECT:
- A. FOR ALL PROJECTS, TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING OR GRADING. TREE PROTECTION FENCES FOR SUBDIVISIONS SHALL BE INSTALLED BY THE DEVELOPER AT THE SAME TIME AS THE EROSION CONTROL DEVICES. THE DEVELOPER IS RESPONSIBLE FOR MAINTENANCE OF TREE PROTECTION FENCES AND DEVICES UNTIL BUILDING COMMENCES ON A LOT. THEREAFTER, BOTH THE DEVELOPER AND THE GENERAL CONTRACTOR ARE RESPONSIBLE FOR
- MAINTENANCE OF THE FENCE ON THE LOT. ANY TREE DESIGNATED ON THE TREE PROTECTION PLAN TO BE SAVED, WHICH IS DAMAGED DURING CONSTRUCTION OTHER THAN BY AN ACT OF GOD, SHALL BE TREATED ACCORDING TO ISA STANDARDS. IF FATALLY DAMAGED, THE TREE SHALL BE RECOMPENSED ON A 1.5-INCH PER ONE-INCH BASIS WITH A COMBINATION OF TWO-INCH, THREE-INCH AND FOUR-INCH OR LARGER CALIPER OVERSTORY TREES. BOUNDARY TREE PROTECTION AND ESCROW ACCOUNT
- A. THE PERMITTEE SHALL PROVIDE A BOUNDARY TREE AGREEMENT BETWEEN THE HOMEOWNER AND THE APPLICANT. THE BOUNDARY TREE OWNER MAY REQUEST FOR A TREE ESCROW ACCOUNT TO BE ESTABLISHED, WHICH MAY BE AN IRREVOCABLE LETTER OF CREDIT IN FAVOR OF THE CITY FROM THE PERMITTEE IN THE AMOUNT AGREED TO BY BOTH PARTIES OR MAY BE A CASH DEPOSIT IN TRUST WITH THE CITY IN THAT AMOUNT, OR THE PERMITTEE MUST SUBMIT AN AGREEMENT CONTRACT CONCERNING THE PROPOSED BOUNDARY TREE
- DISTURBANCE THAT IS AGREED UPON AND SIGNED AND NOTARIZED BY BOTH PARTIES, PRIOR TO PERMIT ISSUANCE. A COPY OF THAT AGREEMENT SHALL BE SUBMITTED TO THE CITY TO BE PLACED IN THE BUILDING PERMIT FILE. FOR ANY BOUNDARY TREE THAT HAS ITS CRITICAL ROOT ZONE IMPACTED AND/OR ENCROACHED INTO MORE THAN 20 PERCENT WITHOUT A PREVIOUSLY APPROVED CERTIFIED ARBORIST PRESCRIPTION, THE PERMITTEE SHALL EITHER DEPOSIT INTO AN ESCROW ACCOUNT, OR CAUSE TO BE ISSUED IN FAVOR OF THE CITY, AN IRREVOCABLE LETTER OF CREDIT, IN AN AMOUNT TOTALING THE ESTIMATED COST OF REMOVAL OF THE BOUNDARY TREE PLUS THE COST TO REPLACE THE BOUNDARY TREE WITH A MINIMUM THREE-INCH CALIPER TREE. THE APPLICANT MUST SEND A CERTIFIED LETTER DESCRIBING THE PROPOSED DISTURBANCE TO THE BOUNDARY TREE OWNER AT THE LAST KNOWN ADDRESS OF THE BOUNDARY TREE OWNER. A COPY OF THE LETTER AND THE CERTIFICATE OF MAILING MUST BE PROVIDED TO THE CITY TO PLACE IN THE PERMIT FILE PRIOR TO PERMIT ISSUANCE. THIS DOES NOT PREVENT THE BOUNDARY TREE OWNER FROM FILING A CIVIL ACTION IN COURT FOR ANY DAMAGES TO THE BOUNDARY TREE REAL OR PERCEIVED.
- REPLACEMENT TREES SHALL BE OF COMPARABLE MATURE CANOPY SIZE AND C. SPECIES QUALITY TO THE REPLACED BOUNDARY TREE, AND SHALL BE ECOLOGICALLY COMPATIBLE WITH THE INTENDED GROWING SITE AS DETERMINED BY THE CITY ARBORIST.
- D. AFTER THREE YEARS FROM THE DATE OF CERTIFICATE OF OCCUPANCY ISSUANCE, THE PERMITTEE MAY PETITION THE CITY ARBORIST TO RETURN THE MONEY HELD IN ESCROW FOR THE BOUNDARY TREE. THE CITY ARBORIST WILL REVIEW THE BOUNDARY TREE TO DETERMINE IF IT IS IN IRREVERSIBLE DECLINE AS A RESULT OF THE PERMITTEE'S DISTURBANCE ACTIVITIES. PERMITTEE AND BOUNDARY TREE OWNER ARE NOTIFIED OF THE ARBORIST'S DETERMINATION VIA FIRST CLASS MAIL. EITHER PARTY MAY APPEAL THE DECISION TO THE ZONING BOARD OF APPEALS.
- E. IF, DURING THE THREE-YEAR PERIOD, THE BOUNDARY TREE IS IN IRREVERSIBLE DECLINE OR HAS DIED AS A RESULT OF THE PERMITTEE'S LAND DISTURBANCE AND/OR CONSTRUCTION ACTIVITY, THE BOUNDARY TREE OWNER WILL BE ISSUED A CHECK BY THE CITY FOR THE AMOUNT DEPOSITED BY THE PERMITTEE. THE PERMITTEE AND BOUNDARY TREE OWNER WILL BE NOTIFIED BY THE ARBORIST VIA FIRST CLASS MAIL. EITHER PARTY MAY APPEAL THE DECISION TO THE ZONING BOARD OF APPEALS.
- NEITHER THE BOUNDARY TREE OWNER NOR THE PERMITTEE SHALL BE ENTITLED TO RECEIVE INTEREST ON ANY FUNDS REQUIRED BY THIS PROVISION. ANY FUNDS NOT COLLECTED BY EITHER THE BOUNDARY TREE OWNER OR THE PERMITTEE WITHIN A PERIOD OF FOUR YEARS SHALL BE DEPOSITED INTO THE CITY TREE FUND

# DEKALB COUNTY NOTES

- 1. 72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE
- ANY PLANNED DIGGING. (HTTP://WWW.GEORGIA811.COM) DEKALB COUNTY IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS BY ENGINEERS OR OTHER DESIGN PROFESSIONALS ON DESIGN OR COUNTY CODE REQUIREMENTS FOR THIS PROJECT.
- 3. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
- 4. ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.
- NO PARKING, STORAGE OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN THE TREE PROTECTION AREAS.
- ALL REQUIRED VEGETATION MUST BE MAINTAINED FOR TWO GROWING SEASONS AFTER THE DATE OF FINAL INSPECTION.

7. ALL TREE PROTECTION AREAS TO BE PROTECTED FROM SEDIMENTATION.

# **ABBREVIATIONS**

ASPH - ASPHALT - AT

0	
BOC	- BOTTOM OF CURB
BFP	- BACKFLOW PREVENTER
BS	- BOTTOM OF STEP
BW	- BOTTOM OF WALL
CL	- CENTERLINE
CJ	- CONTROL JOINT
CO	- COMPANY
CONT	- CONTINUOUS
CY	- CUBIC YARD
DIA	- DIAMETER
DR	- DRIVE
EJ	- EXPANSION JOINT
ELEC	- ELECTRIC
ELEV	- ELEVATION
FH	- FIRE HYDRANT
EX	- EXISTING
FT	- FEET
FL	- FLOW LINE
GALV	- GALVANIZED
HP	- HIGH POINT
HT	- HEIGHT
HW	- HEADWALL
HYD	- HYDRANT
ID	- INSIDE DIAMETER
JUNC	- JUNCTION
LOC	- LIMITS OF CLEARANCE
L.O.D.	- LIMITS OF DISTURBANCE
LF	- LINEAR FEET
MAX	- MAXIMUM

- MINIMUM

MPH - MILES PER HOUR

MH - MANHOLE

MIN

NO - NUMBER - ON CENTER 0.C. OD - OUTSIDE DIAMETER - PERFORATED DRAIN PD - PROPERTY LINE POB - POINT OF BEGINNING PP - POWER POLE - RADIUS ROW - RIGHT OF WAY SERV - SERVICE SCH - SCHEDULE SF - SQUARE FEET - SILT FENCE S.F. SQ - SQUARE - SQARE YARD SY SIG - SIGNAL SPEC - SPECIFICATION(S) STA - STATION - STREET ST - TELEPHONE TC - TOP OF CASTING TOC - TOP OF CURB - TOP OF FOOTING TF - TOP OF PAVEMENT TP - TOP OF STEP TS - TOP OF WALL ΤW TYP. - TYPICAL VERT - VERTICAL W - WATER - WATER SERVICE WS WV - WATER VALVE WWF - WELDED WIRE FABRIC

NIC - NOT IN CONTRACT

- BVCS BEGINNING OF VERTICAL CURVE STATION
- BVCE BEGINNING OF VERTICAL CURVE ELEVATION EVCS - ENDING OF VERTICAL CURVE STATION
- EVCE ENDING OF VERTICAL CURVE ELEVATION PVI - POINT OF VERTICAL INTERSECTION

NOTE: THESE ABBREVIATIONS ARE GENERAL; INDIVIDUAL SHEETS MAY INCLUDE OTHERS.

# "C" SHEETS LEGEND

OE OE	OVERHEAD ELECTRIC
UE UE	UNDERGROUND ELECTRIC
— G —— G ——	GAS
— w — — w —	WATER
— SW ——— SW ———	STORM SEWER
— SS —— SS ——	SANITARY SEWER
$\bullet$	BENCHMARK
Х	FIRE HYDRANT

(now what's **below**.

**Call** before you dig.



# SURVEY NOTES

EQUIPMENT USED A TRIMBLE S6 TOTAL STATION WAS USED TO OBTAIN ANGULAR MEASUREMENTS AND DISTANCE MEASUREMENTS.

A TRIMBLE R-10 DUAL FREQUENCY GPS UNIT WAS USED FOR ESTABLISHING CONTROL. A NETWORK ADJUSTED RTK SURVEY WAS PERFORMED AND ADJUSTED BY RELATIVE POSITIONAL ACCURACY.

CLOSURE STATEMENT: THIS SURVEY HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 628,015 FEET.

THE FIELD DATA UPON WHICH THIS SURVEY IS BASED HAD A CLOSURE OF ONE FOOT IN 74,611 FEET AND AN ANGULAR ERROR OF 4" PER ANGLE POINT AND WAS ADJUSTED USING THE COMPASS RULE.

THE BEARINGS SHOWN ON THIS SURVEY ARE COMPUTED ANGLES BASED ON A GRID BEARING BASE (GA WEST ZONE) NAD83. ALL HORIZONTAL DISTANCES SHOWN ARE GROUND DISTANCES. MEASURING UNITS OF THIS SURVEY ARE IN U.S. SURVEY FEET.

CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS ARE BASED ON RTK GLOBAL POSITIONING SYSTEMS OBSERVATION

AND ARE RELATIVE TO NAVD 88 DATUM. INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY TO THE ACCURACY OF THIS INFORMATION AND

IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.

INFORMATION REGARDING STORM SEWER AND SANITARY SEWER AS SHOWN HEREON, IS BASED ON OBSERVATIONS TAKEN BY TERRAMARK EMPLOYEES AT THE GROUND ELEVATION OF THE EXISTING STRUCTURE. TERRAMARK EMPLOYEES ARE NOT AUTHORIZED TO ENTER A CONFINED SPACE SUCH AS A STRUCTURE THEREFORE, THERE IS NO CERTAINTY OF THE PIPE SIZES AND PIPE MATERIAL THAT ARE SHOWN ON THIS SURVEY. EXCAVATION BY A CERTIFIED CONTRACTOR IS THE ONLY WAY TO VERIFY PIPE SIZE AND MATERIAL. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE PIPE INFORMATION SHOWN HEREON.

STATE WATERS AND BUFFERS AS SHOWN OR NOT SHOWN HEREON ARE SUBJECT TO REVIEW BY LOCAL JURISDICTION OFFICIALS. IT IS THE RESPONSIBILITY OF THE LOCAL AUTHORITY TO DETERMINE SPECIFIC WATER CLASSIFICATION. THEREFORE TERRAMARK LAND SURVEYING ACCEPTS NO RESPONSIBILITY IN THE IDENTIFICATION OF SAID WATERS OR BUFFERS IDENTIFIED OR NOT IDENTIFIED HEREON.

PROPERTY IS SUBJECT TO RIGHTS OF UPPER AND LOWER RIPARIAN OWNERS IN AND TO THE WATER OF CREEKS AND BRANCHES CROSSING OR ADJOINING SUBJECT PROPERTY AND THE NATURAL FLOW THEREOF, FREE FROM DIMINUTION OR POLLUTION.

THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESS CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS OR ENTITY

TERRAMARK LAND SURVEYING, INC. DOES NOT WARRANT THE EXISTENCE OR NON -EXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEY FIELD WORK FOR THIS PROPERTY WAS COMPLETED ON JUNE 22, 2016

# **TITLE NOTES**

ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBER 13089C0052J), DATED MAY 16, 2013; NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH COULD REVEAL ENCUMBRANCES NOT SHOWN ON THIS SURVEY.

SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF BRIARWOOD WAY, BRIARWOOD PARK AND BRIARWOOD ROAD

# UTILITY NOTES

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC. 514 DUNELLA LANE PEACHTREE CITY, GA. 30269 PHONE: 404-312-6912

ATTENTION: HANS WONNEBERGER

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER, AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC. UTILIZING RADIO FREQUENCY TECHNIQUE AND IN ACCORDANCE TO LEVEL "B" UTILITY LOCATION CRITERIA. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON- METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN- SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT ARE NOT SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

# **UTILITY PROVIDERS**

## GAS

WATER

ATLANTA GAS LIGHT COMPANY AGL **10 PEACHTREE STREET NE** ATLANTA, GA 30309 MARTIN MAREK (404) 584-4126 POWER

**GEORGIA POWER COMPANY** 823 JEFFERSON STREET ATLANTA, GA 30318 (404) 506-4569 IKE COLLINS

DEKALB COUNTY WATER AND SEWER DEPARTMEN 1580 ROADHAVEN DR. STONE MOUNTAIN, GA. 30083 770) 612-722:

JEFF WOODS (770) 724-1490 JDWOODS@DEKALBCOUNTYGA.GOV

#### COMMUNICATION AT&T 208 S. AKARD ST. DALLAS, TX 75202

(210) 821-4105 **ÀNGELO HINES** (770) 784-3972 COMCAST (770) 559-6879 SANDRA ANDREWS

LEVEL 3 COMMUNICATIONS, INC 1025 ELDORADO BOULEVARD BROOMFIELD, CO 80021 (877) 366-8344 EXT. 3

VERIZON / MCI 2400 N GLENVILLE RICHARDSON, TX 75082 (478) 471-1042 DENNIS RAINEY

CENTURYLINK 100 CENTURYLINK DRIVE MONROE, LA 71203 (888) 723-8010

ZAYO FIBER SOLUTIONS 400 CENTENNIAL PKWY, SUITE 200 LOUSVILL, CO 80027 (678) 666-2493 NIC FLORES

# **BOUNDARY AND TOPOGRAPHIC SURVEY** FOR THE CITY OF BROOKHAVEN **(BRIARWOOD PARK)** LOCATED IN















# **BENCHMARK 1 DETAIL**





LAND LOT 201 & 202, 18TH DISTRICT DEKALB COUNTY, GEORGIA

SITE MAP







PICTURE LOCATION

PHOTO #1



# **BENCHMARK 2 DETAIL**





# **PHOTO #4**









	GENERAL BUILDING DEMOLITION NO	TES	
	A. GENERAL INTENT IS TO DEMOLISH AND REMOVE EXISTING CONSTRUCTI AS REQUIRED FOR THE NEW DESIGN. COORDINATE THIS WORK WITH EX AND ALL CONTRACT DOCUMENTS.	ION AS NOTED AND XISTING CONDITIONS	
	<ul> <li>B. INTENT IS FOR ENTIRE BUILDING TO BE REMOVED IN ENTIRETY ROOF, INTERIOR AND EXTERIOR WALLS, DOORS, WINDOWS, ETC TO BE ALL FINISHES AND FURNISHINGS TO BE REMOVED.</li> <li>BUILDING FOUNDATION TO BE REMOVED AND BACKFILLED AND COMPAC TO PROVIDE ACCEPTABLE SOILS FOR NEW CONSTRUCTION.</li> <li>CAP ALL UTILITIES TO REMAIN FOR FUTURE USE AS REQUIRED.</li> </ul>	TREMOVED.	
	(1) EXISTING ELECTRICAL SYSTEM TO BE REMOVED IN ENTIRETY (2) EXISTING PLUMBING SYSTEM TO BE REMOVED IN ENTIRETY. (3) EXISTING HVAC DUCTWORK TO BE REMOVED IN ENTIRETY		
	C. THE CONTRACTOR SHALL VISIT PROJECT DURING BID PERIOD, ATTEND CONFERENCES, AND BECOME FAMILIAR WITH THE ENTIRE SCOPE OF WO BID PROPOSAL SHALL BE BASED IN PART BY HIS OBSERVANCE OF ALL E	ALL PRE-BID ORK. CONTRACTOR'S EXISTING CONDITIONS.	SPA SPA
	CONTRACTOR SHALL CLARIFY HIS BID TO INDICATE ANY AREAS THEY V GAIN ACCESS TO VIEW EXISTING CONDITIONS.	VERE NOT ABLE TO	
	D. POOL WILL BE CLOSED DURING DEMOLITION AND CONSTRUCTION OF RE COORDINATE AND SCHEDULE ALL WORK WITH OWNER AND BUILDING OF MAINTAINING OF ANY REQUIRED EXITING.	ENOVATION PROJECT. FFICIALS, INCLUDING	IS THE PROPERTY OF NG, OR USE OF THIS SENT IS PROHIBITED, LEGAL ACTION.
	E. THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL SHORING SCAFFOLDING, ETC., AND THEIR STRENGTH AND ADEQUACY, PROPER U MAINTENANCE.	G, BRACING, SE, OPERATION, AND	
5'WPF	F. UNLESS OTHERWISE DIRECTED, SHOWN, OR SPECIFIED, ALL MATERIALS REMOVED OR DEMOLISHED, EXCEPT THOSE NOTED TO BE SALVAGED O BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVE PREMISES AND DISPOSED OF LEGALLY.	S AND EQUIPMENT R RELOCATED, SHALL ED FROM THE	
	G. CARE SHALL BE TAKEN TO AVOID DAMAGING OR DISTURBING EXISTING WHICH IS INDICATED TO REMAIN. AT NO EXPENSE TO OWNER, CONTRA ANY REPAIRS NECESSARY TO RECTIFY DAMAGE AND RESTORE EXISTIN UNDAMAGED STATE EXISTING PRIOR TO COMMENCEMENT OF WORK.	CONSTRUCTION CTOR SHALL MAKE G CONSTRUCTION TO	
ERTY	H. EXISTING ELECTRICAL, PLUMBING, VENT, AND GAS LINES THAT ARE TO E SHALL BE CAPPED IN WALLS OR UNDER FLOOR, OR AS NOTED IN PLAN D OR AS REQUIRED BY CODE. PATCH DEMOLISHED AREAS FLUSH WITH AN USING LIKE MATERIALS. REMOVE WIRING BACK TO PANEL.	BE ABANDONED DEMOLITION NOTES, DJACENT SURFACES	
REMAIN	I. WHERE EXISTING ACTIVE ELECTRICAL EQUIPMENT, COMMUNICATION LI REMAIN) ARE ATTACHED TO WALLS THAT WILL BE REMOVED, REROUTE A LINES AS NECESSARY FOR TEMPORARY USE FOR PROPER INSTALLATIO CONSTRUCTION.	NES, ETC. (THAT AND RE-SUPPORT N OF NEW	
	J. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, SANITARY SEWER FOUNDATIONS, ETC. BEFORE COMMENCING ANY SAWCUTTING OR DIGG	RS, ELECTRICAL AND SING.	
	K. REFER TO REMAINDER OF CONTRACT DOCUMENTS FOR ADDITIONAL INF ADDITIONAL MISCELLANEOUS DEMOLITION.	FORMATION AND	
IAIN	L. HAZARDOUS MATERIALS HAVE NOT BEEN IDENTIFIED IN THE EXISTING S	STRUCTURES.	کر ا
	<ol> <li>IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE EN WORK.</li> </ol>	NCOUNTERED IN THE	0
1AIN	<ol> <li>IF HAZARDOUS MATERIALS ARE ENCOUNTERED OR IF MATERI CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT AND OWNER.</li> <li>DECISION WILL BE MADE ON DIRECTION OF ABATEMENT:         <ul> <li>a. OPTION 1 - HAZARDOUS MATERIALS WILL BE REMOVED B' SEPARATE CONTRACT BY LICENSED CONTRACTOR FAMILIAR A ALL REQUIRED HAZARDOUS MATERIALS ABATEMENT SERVICES.</li> <li>b. OPTION 2 - HAZARDOUS MATERIALS WILL BE REMOVED BY GE UNDER A SEPARATE CONTRACT BY LICENSED CONTRACTOR F PERFORM ALL REQUIRED HAZARDOUS MATERIALS ABATEMENT SERVICES</li> </ul> </li> </ol>	ALS SUSPECTED OF DO NOT DISTURB; Y OWNER UNDER A ND ALE TO PERFORM NERAL CONTRACTOR AMILIAR AND ALE TO SERVICES.	DEPARTMENT
	SITE DEMO NOTES		
l	1. SEE SHEET C0.01 FOR ADDITIONAL DEMOLITION NOTES.	O ₫	CREA
	2. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCE PLAN AND FIELD CONDITIONS IMMEDIATELY UPON DISCOVERY.		) REC
	3. CONTRACTOR TO COORDINATE WITH OWNER FOR STORAGE LOCATION CONSTRUCTION MATERIALS TO BE SALVAGED.		S ANE
	4. PRIOR TO BEGINNING DEMOLITION, ENSURE EROSION AND INLET PROTE PLACE.		PARK
	5. DISPOSE OF DEMOLISHED MATERIALS LEGALLY OFF SITE.		'EN F
	6. ANY DAMAGES TO EXISTING ITEMS TO REMAIN SHALL BE REPLACED BY ( AT NO ADDITIONAL COST TO OWNER.		KHAV
	7. SITE BOUNDARY SHALL BE FENCED WITH STANDARD STAKED ORANGE CONSTRUCTION FENCING.	M N N	BROO
	8. ALL LIGHTING AND LIGHTING EQUIPMENT TO REMAIN SHALL BE PROTEC WITH TREE PROTECTION FENCING PRIOR TO DEMOLITION.		Y OF I
	9. A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT BY ENGINEERS, DATED MAY 30, 2019. GEOHYDRO REPORT NO. 190367.20.	GEOHYDRO	CIT
			BR
(BUILDINGS, RETAIL	VAL (BASED ON SURVEY)	SUBMITTALS / REVISIO	

EXISTING POOL REMOVAL

LIMITS OF DISTURBANCE

TREE PROTECTION FENCE

EXISTING CONTOUR LINE

EXISTING TREE TO REMAIN - NO IMPACT DRIP LINE / CRITICAL ROOT ZONE STRUCTURAL ROOT PLATE EXISTING TREE TO REMAIN - CRZ IMPACT ZONE OF CRZ IMPACT EXISTING TREE TO BE REMOVED



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



SCALE: 1" = 20 '

BID SET SHEET TITLE

DEMOLITIO	N AND TREE
PROTEC	FION PLAN
PROJECT NO.	DATE
18141C	07/11/2019
DRAWN BY	SCALE
TF	1"=20'
CHECKED BY DY	1
SHEET NO.	•

C0.02



s118141 Brookhaven\_Brianwood\_BlackwoodICADI01\_SHEETS\_BRIARWOOD PARK POOL CD118141C\_C100\_SITE\_SERIES.dwg - Printed on 2019-07-11 at 6:47:31

# LAYOUT NOTES:

- 1. SEE SHEET C0.01 FOR GENERAL NOTES.
- SEE ARCHITECTURAL SHEETS FOR BUILDING.
   INSTALL JOINTS WHERE SHOWN TO ALIGN TO WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALL, CURBS, ETC.). ALL JOINTS TO BE STRAIGHT AND TRUE.
- LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
   ALL OUPPO ADE DIMENSIONED TO THE FACE OF OUPP
- ALL CURBS ARE DIMENSIONED TO THE FACE OF CURB.
   CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
- ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). LATEST EDITION.
   ALL DAVEMENT MARKINGS TO BE THERMODIASTIC. UNITESS
- 8. ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
- 9. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
   10. ALL RADIUS ARE 5' UNLESS OTHERWISE NOTED.

# LAYOUT INFO LEGEND

 LIGHT DUTY CONCRETE PER

 DETAIL 1/C4.00

 HEAVY DUTY CONCRETE PER

 DETAIL 1/C4.00

CONCRETE POOL DECK PER DETAIL 2/C4.00



C4.04

ASPHALT PAVEMENT PER DETAIL 3/C4.00



FURNISHING LEGEND DESCRIPTION SYMBOL COUNT LOUNGE CHAIR 32 SEE DETAIL 4/C4.02 METAL BLEACHER 2 SEE DETAIL 5/C4.02 TABLE WITH UMBRELLA (STANDARD) SEE DETAIL 3/C4.02 TABLE WITH UMBRELLA (ADA) SEE DETAIL 3/C4.02

SALVAGED SHADE STRUCTURE NOTE: CONTRACTOR TO PREPARE SHOP DRAWINGS, APPROVED BY A GEORGIA LICENSED PE, SHOWING FOOTINGS AND ATTACHMENT OF SHADE STRUCTURES TO FOOTINGS, FOR REVIEW AND APPROVAL. FOOTINGS TO BE DESIGNED TO MEET ALL APPLICABLE CODES (INCLUDING WIND LOADS) BASE ON LOCAL JURISDICTIONAL REQUIREMENTS.





C1.00



LEGEND	
920	PROPOSED CONTOUR LINE
920	EXISTING FIELD RUN SURVEY CONTOUR LINE
920.25	PROPOSED SPOT ELEVATION (SEE SHEET C1.00 FOR ABBREVIATIONS)
<b>—</b> 1%	PROPOSED SLOPE GRADIENT DRAINAGE FLOW ARROW (1%, UNLESS OTHERWISE INDICATED)

UNIFORM CODING SYSTEM FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION NOTE: 1. ALL PHASE 1 PRACTICES TO BE COMPLETED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT, NOT AT

END OF ALL CONSTRUCTION ACTIVITIES FOR ENTIRE SITE. 2. ALL TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED FROM SITE AT COMPLETION OF PROJECT OR WHEN CONTRIBUTING DRAINAGE AREA ACHIEVES FINAL STABILIZATION. STORM DRAIN OUTLET PROTECTION TO REMAIN IN PERMANENT CONDITION. ALL OTHER EROSION CONTROL MEASURES ON THIS SHEET ARE TEMPORARY.

MAP SYMBOL	CODE	PRACTICE	CALLOUT(S)
	Co	CONSTRUCTION EXIT	2 C2.90
	Re	RETAINING WALL (DESIGNED BY OTHERS)	
— \$F ——	Sd1-S DOUBLE ROW	SEDIMENT BARRIER (SENSITIVE AREA)	1 C2.90
	St	STORMDRAIN OUTLET PROTECTION	2 C2.91
	Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	1 C2.91
	Ds4	DISTURBED AREA STABILIZATION (SODDING)	5 C2.90
	Du	DUST CONTROL ON DISTURBED AREAS	6 C2.90
	Ss	SLOPE STABILIZATION	3 C2.90
	Sd4	TEMPORARY SEDIMENT TRAP	3 C2.91
	Di	DIVERSION DITCH	4 C2.91
	Sd2-F	INLET SEDIMENT TRAP	5 C2.91

## IMPAIRED STREAM SEGMENT NOTE:

BEING LOCATED ADJACENT TO, AND DISCHARGING STORM WATER INTO AN IMPAIRED STREAM SEGMENT, THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CLAUSE: NPDES PERMIT NO GAR100003, PART III, SECTION C.2. IN ORDER TO ENSURE THAT THE PERMITTEE'S DISCHARGES DO

NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE WATER QUALITY STANDARDS, THE PLAN MUST INCLUDE THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGEMENT:

- (D) A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A PUBLIC ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE AVAILABLE ON THE PROVIDED WEBSITE UNTIL A NOT HAS BEEN SUBMITTED.
- (L) USE MULCH FILTER BERMS, IN ADDITION TO A SILT FENCE, ON THE SITE PERIMETER WHEREVER CONSTRUCTION STORM WATER (INCLUDING SHEET FLOW) MAY BE DISCHARGED. MULCH FILTER BERMS CANNOT BE PLACED IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.
- (P) CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS.
- (U) CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE OF THE PROJECT BY THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN IN ACCORDANCE WITH SECTION IV.A.5 OF THE PERMIT. THE PRIMARY PERMITEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN TO CONDUCT THE INSPECTIONS OF THE INTERMEDIATE AND FINAL BMP PHASES.

THE SOIL EROSION AND SEDIMENT CONTROL ORDINANCE REQUIRES THAT A 25 FOOT BUFFER ADJACENT TO ALL STATE WATERS BE MAINTAINED. AN EXCEPTION IS GRANTED TO HOME OWNERS WHO PERFORM MINOR LAND DISTURBING ACTIVITIES SUCH AS HOME LANDSCAPING, HOME GARDENS, REPAIRS AND MAINTENANCE WORK.

# EROSION CONTROL LEGEND:

~~**~** 

----- LOD ----- LIMITS OF CONSTRUCTION/ DISTURBANCE

SAMPLE POINT NUMBER (SEE C2.10 FOR GIS LOCATION)

CHANNEL FLOW ARROW

DIRECTION OF RAINFALL RUNOFF





### CITY OF BROOKHAVEN EROSION CONTROL NOTES:

- 1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
   PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT AS REQUIRED ON THE NOTICE OF INTENT UNDER THE NPDES APPLICATION.
- 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 SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
   IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 6. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- 7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- 8. 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 PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, AS NECESSARY.
- 10. ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT
- WITHIN 14 DAYS AFTER DISTURBANCE; PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS. 11. IF CONCRETE WORK IS DONE ON SITE THEN A CONCRETE WASHDOWN BMP SHALL BE PROVIDED OR A NOTE "CONCRETE WASHDOWN IS NOT ALLOWED ON SITE." THE CONCRETE WASHDOWN AREA, IF ALLOWED, SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE GOVERNING EROSION CONTROL ORDINANCE.
   A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- 14. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.
- 15. TOILET FACILITIES SHALL BE MADE AVAILABLE TO CONSTRUCTION WORKERS WITHIN 300-FEET OF SITE LIMITS OF DISTURBANCE <u>→</u>^-SAMPLE POINT #1 NTU: 75 LIMITS OF DISTURBANCE NOTE: EXISTING PARKING LOT TO BE RÉPLACED WITH FUTURE PARK IMPROVEMENT PROJECT (BY OTHERS) EXISTING BUILDING **EXISTING POOL EXISTING BUILDING** DISTURBANCE (4) CONCRETE WASHDOWN (C2.90) CONSTRUCTION EXIT





# 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.

![](_page_9_Picture_34.jpeg)

|--|--|

![](_page_9_Picture_36.jpeg)

DRAWING AND THE DESIGN SHOWN IS THE PROPERTY

BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE		CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	BROOKHAVEN
BMITTALS	S / REVIS	SIONS		
. DATE	DE	SCRI	PTIO	N
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	BID SE	T		
EET TITLE ESF	PC PH	ASE	1	

PROJECT NO. 18141C	DATE 07/11/2019	
DRAWN BY AM	SCALE 1" = 20'	
CHECKED BY JM		
SHEET NO.		
C2.11		

![](_page_10_Figure_0.jpeg)

# **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 SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED 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.

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, 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.

	SPACES FOR LIFE.
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RAWING AND THE DESIGN SHOWN IS THE PROPERTY

BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	BROOKHAVEN
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# 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.

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# 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 (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.

# **CRITICAL WORK ZONE EROSION CONTROL NOTES:**

HATCHED AREAS SHOWN ON THE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING, ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DRAIN ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED 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 MATTING AS SPECIFIED ON THE EROSION CONTROL PLANS.

# **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 STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. 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."

08/28/2021

DESIGN PROFESSIONAL

DATE

85101 LEVEL II CERTIFICATION EXPIRES: 04-29-2022

# NPDES PERMIT COVERAGE

SEE SHEET C2.10 FOR SAMPLING LOCATIONS.

SAMPLING METHODOLOGY PART IV.D.6

AII 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.

# **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)

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 2660 OSBORNE ROAD, NE, ATLANTA, GA 30319, THE ENTIRE SITE CONTAINS ±14.98 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 C0.02 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 C2.11-C2.31 AND CONSTRUCTION PLAN SET.

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 08/31/2016, BY TERRAMARK LAND SURVEYING, INC.

NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER FEMA FIRM PANEL 13089C0052J, EFFECTIVE DATE MAY 16, 2013.

RUNOFF COEFFICIENT

• WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 89 • WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 87

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

**BUFFER ENCROACHMENTS** 

THERE ARE NO 25 FOOT STATE WATERS BUFFER ENCROACHMENTS ON THIS SITE.

NAME OF RECEIVING WATERS:

THE RECEIVING WATER FOR THIS SITE IS AN UNNAMED TRIBUTARY OF NORTH FORK PEACHTREE CREEK. THIS PROJECT DISCHARGES 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.

#### TMDL IMPLEMENTATION PLAN

TMDL COMPLETED FC 2003 (REVISED 2008), BIO F 2008, BIO M 2018

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.

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 MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET C-4B, BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

TARPAULIN.

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.

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.

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

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

• 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 LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

- HOURS

#### 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.

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

#### CONCRETE WASHDOWN PER DETAIL 1 ON SHEET C2.90

WASHOUT OF THE CONCRETE DRUM IS PROHIBITED. FOLLOWING IS A PROCEDURE TO WASHDOWN TOOLS, CHUTE AND HOPPER: 1. COORDINATE WITH SITE SUPERINTENDENT TO EXCAVATE A PIT DEEP ENOUGH TO CONTAIN WASHDOWN WATER. 2. BACK IN EQUIPMENT.

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

#### 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

#### 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.

2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL WHERE POSSIBLE. 3. 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

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

#### PRODUCT SPECIFIC PRACTICES

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.

#### SOIL CLEANUP AND CONTROL PRACTICES

 SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL.

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

1-800-426-2675. 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 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.

# RAWING AND THE DESIGN SHOWN IS THE PROPERTY THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THI DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITEI AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.

![](_page_12_Picture_176.jpeg)

![](_page_12_Figure_178.jpeg)

C2.40

BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE RD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

PRIMARY PERMITTEE / OWNER CONTACT

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

# NPDES PERMIT COVERAGE (CONTINUED)

#### 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.
- MEASURE 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).
- 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.
- 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.

STORM WATER SAMPLING

SAMPLE ANALYSIS 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 STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE 40CFR PART 136 AND THE GUIDANCE DOCUMENT TITLES NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-B-92-001. 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 STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT 1 OUTFALL LOCATION INDICATED ON SHEET MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY C2.10. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

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 GENERAL NUMBER GAR 100001. THE NTU IS BASED UPON THE TOTAL DISTURBED AREA OF 1.12 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= 75

#### SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL SUBSTRATA. FERTILITY IS LOW AND ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART 136 (UNLESS OTHER TEST PROCEDURES THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL AREA UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS. 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. TREATMENT SPECIFICATIONS

- 1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. 2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- 3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- 4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E

#### SAMPLING POINTS

THERE IS 1 SAMPLING LOCATION AS INDICATED ON SHEET C2.1 AND SEE POINT TABLE ON C2.10 FOR COORDINATES. PER NPDES

- 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

- UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- 2. 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;

- ETC USED TO DETERMINE THESE RESULTS. H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

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

GOVERNIN	G AGENCY:	CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562
OWNER:	CITY OF BR	OOKHAVEN

<b>?</b> :	CITY OF BROOKHAVEN
	3360 OSBORNE ROAD
	BROOKHAVEN, GA 30319
	PHONE: 404.637.0562

RETENTION OF RECORDS

- A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD:
- OF THIS PERMIT;
- OF THIS PERMIT: AND
- G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.
- EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

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 5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS

PERMIT GAS 100001, FOR CONSTRUCTION ACTIVITIES. THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

1. 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

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,

I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF 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 TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED

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

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

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. 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.

2. 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

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

#### 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:

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

AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MULCH, STRAW OR HAY		4000 LBS./ACRE 1500 LBS./ACRE 5000 LBS./ACRE	
SEEDING SPECIES JLL COMMON BERMUDA GRASS	APPLICATION RATE/ACRE 10 LBS.	PLANTING DATES 3/1-6/15	
ESCUE	50 LBS.	9/1-10/31	
ESCUE YE GRASS	50 LBS. 50 LBS.	11/1-2/28	
AY MULCH FOR TEMP. COVER	5000 LBS.	6/15-8/31	
TOP DRESSING: APPLY WHEN PLANT FERTILIZER (AMMONIUM NITRATE 3	S ARE 2 TO 4 INCHES TALL 33.5%)	300 LBS./ACRE	

FERTILIZER(AMMONIUM NITRATE 33.5%)

800 LBS./ACRE C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT)

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:

٩. ٩	<u>SEEDING WITH MULCH:</u> (HYDRAULIC SE	EEDING EQUIPMENT ON SLOPES LE	SS THAN 3:1 AND STEEPER)	
	AGRICULTURAL LIMESTONE #75		4000 LBS./ACRE	
	FERTILIZER, 5-10-15		1500 LBS./ACRE	
	MULCH, (STRAW OR HAY) OR		5000 LBS./ACRE	
	WOOD CELLULOSE FIBER MULCH		1000 LBS./ACRE	
	SEEDING SPECIES	APPLICATION RATE/ACRE	PLANTING DATES	
SEF	RICEA LESPEDEZA, SCARIFIED	60 LBS.		

VEEPING GRASS OR COMMON BERMUDA, HULLED	4 LBS. 6 LBS.	3/1-6/15
ESCUE SERICEA LESPEDEZA, UNSCARIFIED	40 LBS. 60 LBS.	9/1-10/31
ESCUE SERICEA LESPEDEZA, UNSCARIFIED RYE	40 LBS. 75 LBS. 50 LBS.	11/1-2/28
AY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15-8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL FERTILIZER (AMMONIUM NITRATE 33.5%) 3000 LBS./ACRE C. SECOND-YEAR FERTILIZER: (0-20-20 OR EQUIVALENT) 500 LBS./ACRE

MONTH AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR INSTALLATION OF PERIMETER SILT FENCES INSTALLATION OF CONSTRUCTION EXITS DEMOLITION OF EXISTING FEATURES. SEE SHEET C0.10 FOR DETAILS STRIP TOPSOIL **CLEARING & GRUBBING** APPLICATION OF TEMPORARY VEGETATIVE MEASURES INSTALL GRADING PHASE EROSION MEASURES ROUGH GRADING MASS GRADING CURB & GUTTER AND PAVEMENT FINE GRADING LANDSCAPING FINAL STABILIZATION REMOVE TEMPORARY EROSION MEASURES AND TREE PROTECTION FENCING MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES

ANTICIPATED CONSTRUCTION SCHEDULE START DATE: 08/01/2019 END DATE: 04/30/2020

# 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 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 D
- 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.

# 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.

![](_page_13_Picture_128.jpeg)

SWCC LEVEL II DESIGN PROFESSIONAL	

**CERTIFICATION #** 

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.

> 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

THIS DRAWING AND THE ARCHITECT. RE DRAWING WITHOUT AND ANY INFRINGEN		AN IS THE PROPERTY OF YUNG, OR USE OF THIS DATES TO A LEGAL ACTON.										
GSWC	GSWCC LEVEL II # 85101 EXPIRES: 08/28/2021											
		GA										
BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT BROOKHAVEN										
SUBMITTAL NO. DATE		IONS SCRIPTION										
SHEET TITL ES PROJECT N 18141C DRAWN BY		DTES TE D7/11/2019 CALE										

![](_page_14_Figure_0.jpeg)

SCALE: N.T.S.

![](_page_14_Figure_4.jpeg)

3

# SCALE: N.T.S.

Table 1.Spray-On Adhesive Application Requirements										
AdhesiveWaterNozzleApplicationDilutionType(Gal./Acres)										
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							

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.

![](_page_14_Picture_16.jpeg)

DUST CONTROL SCALE: N.T.S.

6

![](_page_15_Figure_0.jpeg)

- 12" AND THEN BACKFILLED WITH CRUSHED STONE

	E DESIGN SHOWN IS THE ROUCTION, COPYING, OI ER WRITTEN CONSENT IT IS SUBJECT TO LEGAL	BACION BS101 021
BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT BROOKHAVEN GA
SUBMITTALS	7 REVISIONS DESCRI	S PTION
	· · · · · · · · · · · · · · · · · · ·	
SHEET TITLE DRAIN	JAGE & E DETAILS	SPC
PROJECT NC 18141C DRAWN BY AM CHECKED BY JM SHEET NO.	D. DATE 07/11 SCALE N/A	/2019

![](_page_16_Figure_0.jpeg)

SCALE: N.T.S.

SHEET NO.

C2.92

2

3

DRAIN GRATE ASSEMBLY SCALE: N.T.S.

### 25 YEAR PIPE CHART

n         n	LineSize	Line Material	LineLength	InvertUp	InvertDn	LineSlope	n-valuePipe	iInlet	CapacityFull	FlowRate	SfAve	VelDn	RunoffCoeff	Тс	DrainageArea	HGLUp	HGLDn	InletID	Downstream Inlet ID	Rim Elev	Casting Type	Basin Type	Grate Type
Hor         G.2         HOR         HOR         G.2         HOR         HOR         G.2         HOR         HOR <td>(in)</td> <td></td> <td>(ft)</td> <td>(ft)</td> <td>(ft)</td> <td>(%)</td> <td>· ·</td> <td>(in/hr)</td> <td>(cfs)</td> <td>(cfs)</td> <td>(%)</td> <td>(ft/s)</td> <td>(C)</td> <td>(min)</td> <td>(ac)</td> <td>(ft)</td> <td>(ft)</td> <td></td> <td></td> <td>(ft)</td> <td></td> <td></td> <td></td>	(in)		(ft)	(ft)	(ft)	(%)	· ·	(in/hr)	(cfs)	(cfs)	(%)	(ft/s)	(C)	(min)	(ac)	(ft)	(ft)			(ft)			
12 edds bits 153 154 </td <td>()</td> <td></td> <td></td> <td></td> <td></td> <td>()</td> <td></td> <td>(,,</td> <td>(,</td> <td>(0.0)</td> <td>(**)</td> <td></td> <td>(-)</td> <td>()</td> <td></td> <td>(**)</td> <td>(**)</td> <td></td> <td></td> <td>(***</td> <td></td> <td></td> <td></td>	()					()		(,,	(,	(0.0)	(**)		(-)	()		(**)	(**)			(***			
12         1094         10.22         24.23         10.44         10.44         10.44         10.45         10.44         10.	12	HDPE	6.32	913.75	913.65	1.58	0.013	0	4.48	2.1	0	4.11	0	10.9	0	914.37	914.27	WO A-1.1	L HW A-1	917	Water Quality Unit	Drain Basin	Solid Cover
12         1070         11300         11400         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         110000         1100000         1100000         11000	12	HDPF	10.55	913.96	913.85	1.04	0.013	9.34	3.64	2.1	0	4.8	0.9	10.8	0.01	914.58	914.4	YI A-2	WO A-1.1	921.4	Yard Inlet	Drain Basin	9" Pedestrian Grate
1002         1003         94.45         9	12	HDPF	19.12	914.26	914.06	1.05	0.013	9.34	3.64	1.86	0	4.53	0.9	10.7	0.01	914.84	914.58	YI A-3	YI A-2	921.35	Yard Inlet	Inline Drain	9" Pedestrian Grate
1091         1004         1044         94.69         10.6         10.7         10.6         10.5         10.7 <t< td=""><td>12</td><td>HDPF</td><td>23.00</td><td>914 59</td><td>914 36</td><td>1</td><td>0.013</td><td>9 34</td><td>3 56</td><td>1 81</td><td>0</td><td>4 55</td><td>0.9</td><td>10.6</td><td>0.01</td><td>915 16</td><td>914 87</td><td>YI A-4</td><td>YI A-3</td><td>921 35</td><td>Yard Inlet</td><td>Inline Drain</td><td>9" Pedestrian Grate</td></t<>	12	HDPF	23.00	914 59	914 36	1	0.013	9 34	3 56	1 81	0	4 55	0.9	10.6	0.01	915 16	914 87	YI A-4	YI A-3	921 35	Yard Inlet	Inline Drain	9" Pedestrian Grate
D         Holpe         Hol	12	HDPF	20.61	914 9	914 69	1 02	0.013	9 34	3 59	1 76	0	4 55	0.9	10 5	0.01	915 46	915 18	YI A-5	YI A-4	921.4	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         1000         135.5         137.0         137	12	HDPE	18.00	915.19	915	1.06	0.013	9.34	3.66	1.64	0	4.53	0.9	10.4	0.01	915.73	915.47	YI A-6	YI A-5	921.37	Yard Inlet	Inline Drain	9" Pedestrian Grate
12         1967         197.         1	12	HDPE	21.01	915.5	915.29	1	0.013	9.34	3.56	1.59	0	4.4	0.9	10.2	0.01	916.03	915.76	YI A-7	YI A-6	921.37	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         NPR         23.6         91.6         91.6         91.6         91.6         91.6         91.6         91.6         92.7         Yac1 det         Dan Bain         Predication ope           12         HVR         20.7         91.64         91.65         11.0         0.013         9.4         8.6         0.8         0.7         91.64	12	HDPE	17.92	915.78	915.6	1	0.013	9.34	3.57	1.47	0	4.32	0.9	10.1	0.01	916.29	916.05	YI A-8	YI A-7	921.4	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         100%         21.7         21.4	12	HDPE	17.87	916.06	915.88	1.01	0.013	9.34	3.57	1.29	0	4.18	0.9	9.9	0.01	916.54	916.29	YI A-9	YI A-8	921.37	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         100F         93.7         91.87         91.87         91.7         91.87         91.7 <t< td=""><td>12</td><td>HDPE</td><td>27.17</td><td>916.44</td><td>916.16</td><td>1.03</td><td>0.013</td><td>9.34</td><td>3.62</td><td>1.04</td><td>0</td><td>3.82</td><td>0.9</td><td>9.7</td><td>0.02</td><td>916.87</td><td>916.54</td><td>YI A-10</td><td>YI A-9</td><td>921.33</td><td>Yard Inlet</td><td>Drain Basin</td><td>9" Pedestrian Grate</td></t<>	12	HDPE	27.17	916.44	916.16	1.03	0.013	9.34	3.62	1.04	0	3.82	0.9	9.7	0.02	916.87	916.54	YI A-10	YI A-9	921.33	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         NDFE         12.0         D16.0         1.0         0.13         9.34         5.6         0.7         0.7         9.7         9.7.2         9.7.2         9.7.2         1.0         0.013         9.34         5.7         0.5.5         0.2         0.8         0.01         9.7.2         9.7.3         9.7.1         9.7.3         9.7	12	HDPE	26.97	916.81	916.54	1	0.013	9.34	3.56	0.86	0	3.73	0.9	9.3	0.01	917.2	916.87	YI A-11	YI A-10	921.33	Yard Inlet	Drain Basin	9" Pedestrian Grate
12         1000         127         127         127         127         127.<	12	HDPE	26.02	917.17	916.91	1	0.013	9.34	3.56	0.67	0	3.48	0.9	8.9	0.04	917.51	917.21	YI A-12	YI A-11	921.35	Yard Inlet	Drain Basin	9" Pedestrian Grate
100         1074         17.51         17.64         17.64         17.64         17.64         17.44         17	12	HDPE	20.92	917.48	917.27	1	0.013	9.34	3.57	0.35	0	2.38	0.9	8.3	0.01	917.72	917.51	YI A-13	YI A-12	921.38	Yard Inlet	Drain Basin	9" Pedestrian Grate
100         1074         10.44         91.742         91.742         91.744	10	HDPE	17.51	917.86	917.68	1.03	0.012	9.34	2.41	0.22	0	2.73	0.9	7.6	0.01	918.06	917.85	YI A-14	YI A-13	921.37	Yard Inlet	Inline Drain	9" Pedestrian Grate
10         PDP         15.41         918.4         918.4         918.4         0.14         0.013         9.2         0.08         0.2         0.5         0.01         918.5         918.5         VA-15         VA-15         91.4         Variable         Inite Drain         Operation Grain           6         PDPE         9.38         91.85	10	HDPE	17.42	918.14	917.96	1.03	0.013	9.34	2.23	0.15	0	2.33	0.9	6.7	0.01	918.31	918.11	YI A-15	YI A-14	921.4	Yard Inlet	Inline Drain	9" Pedestrian Grate
6         HDF         20.0         91.8.4     <	10	HDPE	15.41	918.4	918.24	1.04	0.013	9.34	2.23	0.08	0	1.96	0.9	5	0.01	918.52	918.35	YI A-16	YI A-15	921.4	Yard Inlet	Inline Drain	9" Pedestrian Grate
6         HOPE         19.3         91.7         91.7         10.3         0.31         9.4         0.7         0.23         0.2         0.2         0.2         0.2         0.2         0.2         0.1         91.4         17.2         14.91         91.4         Yard Inicit         Orin Basin         Predestrian Grat           6         HOPE         2.52         91.3.5         91.4.2         1.0         0.013         9.4         0.57         0.08         0.7         0.3         9.4         0.57         0.08         0.7         0.3         9.4         0.57         0.08         0.7         0.3         9.4         0.57         0.08         0.7         0.3         9.4         0.57         0.3         9.4         0.57         0.3         0.5         0.1         9.8         0.1         9.4         9.7         0.3         9.4         0.5         0.3         0.4         0.5         0.3         0.4         0.5         0.3         0.4         0.5         0.3         0.4         0.4         0.4.2         9.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4     <	6	HDPE	20.07	918.4	918.2	1	0.013	9.34	0.56	0.08	0	2.05	0.9	5	0.01	918.54	918.33	YI A-13.1	YI A-13	921.4	Yard Inlet	Inline Drain	9" Pedestrian Grate
HOPE         18.85         918.02         917.8         11.7         0.03         9.44         0.61         0.6         0.9         2.6         0.9         5.0         0.01         918.25         918.25         YA-9.1         921.45         YA-9.1         921.45         YA-9.1         921.45         YA-9.1         921.45         YA-9.1         921.45         YA-9.1         Packet mining Prime         Predestrian Gat           6         HOPE         22.64         918.35         918.1         11.0         0.013         9.34         0.56         0.21         0.9         5.0         0.01         918.45         918.28         YA-8.1         YA-8.1         YA-8.1         YA-1.1         YA-11         Inline Drain         9 <sup>P</sup> Pedestrian Gat           6         HOPE         18.00         917.49         917.49         YA-2.1         YA-2.1         YA-2.1         YA-2.1         YA-2.1         YA-2.1         YA-2.1         YA-11         Inline Drain         9 <sup>P</sup> Pedestrian Gat           6         HOPE         18.00         917.49         917.49         YA-2.1	6	HDPE	19.33	917.7	917.5	1.03	0.013	9.34	0.57	0.23	0	2.76	0.9	6.2	0.01	917.94	917.72	YI A-9.1	YI A-9	921.4	Yard Inlet	Drain Basin	9" Pedestrian Grate
HOPE         2.52         918.35         918.2         10.2         0.13         9.34         0.57         0.80         0.7         0.9         5         0.10         918.2         11.2         11.0         011a         9.34         0.57         0.27         0.9         5         0.01         918.25         918.35         918.28         14.81         14.80         91.35         YardInlet         Inline Drain         9 <sup>2</sup> PedestrianGrat           6         HOPE         18.00         917.3         91.7.5         17.54         17.42         17.4         91.35         YardInlet         Inline Drain         9 <sup>2</sup> PedestrianGrat           6         HOPE         18.00         917.3         91.75         17.54         17.42         17.4         91.35         YardInlet         Inline Drain         9 <sup>2</sup> PedestrianGrat           6         HOPE         26.33         91.75         91.75         91.75         17.24         91.75         17.24         91.75         17.24         91.75         17.24         91.75         91.75         17.24         91.75         91.75         91.75         91.75         91.75         91.24         91.75         91.75         91.24         91.75         91.75         91.24	6	HDPE	18.85	918.02	917.8	1.17	0.013	9.34	0.61	0.16	0	2.6	0.9	5.9	0.01	918.22	917.98	YI A-9.2	YI A-9.1	921.4	Yard Inlet	Inline Drain	9" Pedestrian Grate
6         HDFE         22.64         918.35         918.1         1.1         0.03         9.44         0.59         0.17         0         2.79         0.9         5         0.02         918.55         918.28         N.4.1         VLA2         92.35         Yard Inlet         Inline Drain         97 Pedestran Grat           6         HDFE         18.00         917.49         917.50         917.50         917.60         10.0         0.013         9.34         0.56         0.6         0.2         0.6         0.9         5.8         0.01         917.87         N4.21         VLA2.2         VLA2.1         92.37         Yard Inlet         Inline Drain         97 Pedestran Grat           6         HDFE         917.83         918.35         917.87         918.31         917.87         VLA2.2         VLA2.1         VLA2.1 <td>6</td> <td>HDPE</td> <td>22.52</td> <td>918.35</td> <td>918.12</td> <td>1.02</td> <td>0.013</td> <td>9.34</td> <td>0.57</td> <td>0.08</td> <td>0</td> <td>2.07</td> <td>0.9</td> <td>5</td> <td>0.01</td> <td>918.49</td> <td>918.25</td> <td>YI A-9.3</td> <td>YI A-9.2</td> <td>921.35</td> <td>Yard Inlet</td> <td>Inline Drain</td> <td>9" Pedestrian Grate</td>	6	HDPE	22.52	918.35	918.12	1.02	0.013	9.34	0.57	0.08	0	2.07	0.9	5	0.01	918.49	918.25	YI A-9.3	YI A-9.2	921.35	Yard Inlet	Inline Drain	9" Pedestrian Grate
6       HDF       16.00       917.49       917.49       917.49       917.49       917.49       917.49       917.47       917.41       917.47	6	HDPE	22.64	918.35	918.1	1.1	0.013	9.34	0.59	0.17	0	2.59	0.9	5	0.02	918.55	918.28	YI A-8.1	YI A-8	921.35	Yard Inlet	Inline Drain	9" Pedestrian Grate
6       HDPE       21.00       917.9       917.69       1.01       0.013       9.34       0.56       0.66       0.9       5.8       0.01       918.1       918.2       10.10       0.013       9.34       0.56       0.66       0.9       5.0       0.01       918.4       918.2       11.2       V1.4.2.2       V1.4.2.3       V1.4.1.3       V1.	6	HDPE	18.00	917.49	917.31	1	0.013	9.34	0.56	0.23	0	2.73	0.9	6.2	0.01	917.73	917.54	YI A-2.1	YI A-2	921.4	Yard Inlet	Inline Drain	9" Pedestrian Grate
6       HDPE       19.5       918.3       918.1       1.01       0.03       9.34       0.56       0.08       0       2.06       0.9       5       0.01       918.4       918.23       YI A-2.3       YI A-2.1       Yard Inlet       Inline Drain       9" Pedestrian Grat         6       HDPE       26.83       917.55       1.3       0.03       9.34       0.56       0.08       0.9       5       0.01       918.49       918.05       YI A-1.1       YI A-11.1       Y2.11       Yard Inlet       Inline Drain       2" Standar Grat         6       HDPE       28.77       918.25       917.9       1.22       0.013       9.34       0.62       0.82       0.9       5       0.01       918.49       918.05       YI A-11.1       YI A-11.4       YI A-11.4 <thyi a-11.4<="" th="">       YI</thyi>	6	HDPE	21.00	917.9	917.69	1	0.013	9.34	0.56	0.16	0	2.46	0.9	5.8	0.01	918.1	917.87	YI A-2.2	YI A-2.1	921.37	Yard Inlet	Inline Drain	9" Pedestrian Grate
6 HDPE       26.83       917.85       917.85       917.85       917.85       9.34       0.031       9.34       0.64       0.15       0.0       2.65       0.9       5.6       0.01       918.49       917.67       YIA.11	6	HDPE	19.75	918.3	918.1	1.01	0.013	9.34	0.56	0.08	0	2.06	0.9	5	0.01	918.44	918.23	YI A-2.3	YI A-2.2	921.37	Yard Inlet	Inline Drain	9" Pedestrian Grate
6 HDPE40.0091.8.591.7.91.20.0139.3.40.5.60.080.60.50.950.0191.8.991.8.0Y1.4.1.2Y1.4.1.1921.1YardinetInine Drain12" standardard6 MDPE17.0091.8.591.7.91.2.70.0139.3.40.620.080.20.950.0191.8.991.0.2Y1.4.1.1Y1.4.1.2921.2YardinetInine Drain12" standardard6 MDPE17.0191.191.7.91.1.70.0139.3.40.610.880.21.60.191.791.60Y1.4.1.2<	6	HDPE	26.83	917.85	917.5	1.3	0.013	9.34	0.64	0.15	0	2.68	0.9	6.6	0.01	918.04	917.67	YI A-11.1	YI A-11	921.1	Yard Inlet	Drain Basin	12" Standard Grate
64HDPE28.77918.25917.91.220.0139.340.620.0802.20.950.01918.39918.02YI A-12YI A-12921.25Yard InletInline Drain9"Pedestrian Grat6HDPE17.06918.1917.91.170.0139.340.610.080.62.170.950.01918.24918.03YI A-5.1YI A-5.5921.1Yard InletInline Drain12"StandarGrat6HDPE17.12918.1917.91.160.0139.340.610.0802.170.9050.01918.24918.03YI A-5.1YI A-5921.1Yard InletJine Drain12"StandarGrat6HDPE17.12918.1917.918.14918.24918.03YI A-5.1YI A-7921.1Yard InletJine Drain12"StandarGrat6HDPE25.09912.5910.9916.5916.5918.24918.24918.25916.5Yard 10Yard Inlet91Yard Inlet <th< td=""><td>6</td><td>HDPE</td><td>40.00</td><td>918.35</td><td>917.95</td><td>1</td><td>0.013</td><td>9.34</td><td>0.56</td><td>0.08</td><td>0</td><td>2.05</td><td>0.9</td><td>5</td><td>0.01</td><td>918.49</td><td>918.08</td><td>YI A-11.2</td><td>YI A-11.1</td><td>921.1</td><td>Yard Inlet</td><td>Inline Drain</td><td>12" Standard Grate</td></th<>	6	HDPE	40.00	918.35	917.95	1	0.013	9.34	0.56	0.08	0	2.05	0.9	5	0.01	918.49	918.08	YI A-11.2	YI A-11.1	921.1	Yard Inlet	Inline Drain	12" Standard Grate
HDP       1.7.0       91.1       91.7.0       9.1.7       0.013       9.4.0       0.6.0       0.8       0.1       91.0       91.4.0 <td>6</td> <td>HDPE</td> <td>28.77</td> <td>918.25</td> <td>917.9</td> <td>1.22</td> <td>0.013</td> <td>9.34</td> <td>0.62</td> <td>0.08</td> <td>0</td> <td>2.2</td> <td>0.9</td> <td>5</td> <td>0.01</td> <td>918.39</td> <td>918.02</td> <td>YI A-12.1</td> <td>YI A-12</td> <td>921.25</td> <td>Yard Inlet</td> <td>Inline Drain</td> <td>9" Pedestrian Grate</td>	6	HDPE	28.77	918.25	917.9	1.22	0.013	9.34	0.62	0.08	0	2.2	0.9	5	0.01	918.39	918.02	YI A-12.1	YI A-12	921.25	Yard Inlet	Inline Drain	9" Pedestrian Grate
6 HPE1.7.191.491.7.91.1.60.0.39.4.40.6.00.80.40.40.950.1.091.2.491.8.091.4.7.191.1.491.1.491.1.41.1.1.0 <td>6</td> <td>HDPE</td> <td>17.06</td> <td>918.1</td> <td>917.9</td> <td>1.17</td> <td>0.013</td> <td>9.34</td> <td>0.61</td> <td>0.08</td> <td>0</td> <td>2.17</td> <td>0.9</td> <td>5</td> <td>0.01</td> <td>918.24</td> <td>918.03</td> <td>YI A-5.1</td> <td>YI A-5</td> <td>921.1</td> <td>Yard Inlet</td> <td>Inline Drain</td> <td>12" Standard Grate</td>	6	HDPE	17.06	918.1	917.9	1.17	0.013	9.34	0.61	0.08	0	2.17	0.9	5	0.01	918.24	918.03	YI A-5.1	YI A-5	921.1	Yard Inlet	Inline Drain	12" Standard Grate
HDPE       2.32       91.8       91.7.85       1.12       0.013       9.4       0.69       0.4       0.9       5       0.11       91.8       91.4       <	6	HDPE	17.21	918.1	917.9	1.16	0.013	9.34	0.6	0.08	0	2.16	0.9	5	0.01	918.24	918.03	YI A-7.1	YI A-7	921.1	Yard Inlet	Inline Drain	12" Standard Grate
A MPE       5.09       91.5       91.0       9.40       0.013       0       3.81       2.52       0       7.27       0       0.61       91.5       91.61       MBe1       92.1       Mater Quality Unit       Drain Basin       Solid Cover         64       MDPE       12.92       91.64       91.62       1.55       0.13       9.34       0.70       0.46       0       3.79       0.90       6.5       0.11       MDe1       91.6       WDe1.1       WDe1.	6	HDPE	22.32	918.1	917.85	1.12	0.013	9.34	0.59	0.08	0	2.14	0.9	5	0.01	918.24	917.98	YI A-10.1	YI A-10	921.1	Yard Inlet	Inline Drain	12" Standard Grate
8 HDPE91.091.091.09.060.01303.812.5207.2706.6091.1590.65WQ B-1.1HW B-1<921WaterQuality Unit<Drain BasinSolid Cover6 MDPE1.29291.6491.6291.6291.6391.65																			_	_			
6 HDPE1.2.92916.4916.21.5.50.0139.4.40.70.460.40.70.460.50.10916.5916.5916.2921.35Yard InterDrain Basin9" Pedestrian Gast6 HDPE25.38918.4918.41.020.130.139.340.570.680.60.70.95.70.90.1918.44918.77918.42918.73918.4391.33Yard InterDrain Basin9" Pedestrian Gast6 HDPE25.38918.7918.440.120.130.130.340.570.680.60.1918.44918.75918.45918.7591.33Yard InterInter Cast9" Pedestrian Gast8 HDPE94.13915.4914.451.010.0139.441.212.163.196.180.95.50.1691.2491.25VIB.2191.33Yard InterN/AOter Cast8 HDPE128.80916.891.551.010.0139.341.212.23.266.310.95.50.1692.3491.8592.35VIB.2192.34VIB.21 </td <td>8</td> <td>HDPE</td> <td>25.09</td> <td>912.5</td> <td>910</td> <td>9.96</td> <td>0.013</td> <td>0</td> <td>3.81</td> <td>2.52</td> <td>0</td> <td>7.27</td> <td>0</td> <td>6.6</td> <td>0</td> <td>913.15</td> <td>910.65</td> <td>WQ B-1.1</td> <td>l HW B-1</td> <td>921</td> <td>Water Quality Unit</td> <td>Drain Basin</td> <td>Solid Cover</td>	8	HDPE	25.09	912.5	910	9.96	0.013	0	3.81	2.52	0	7.27	0	6.6	0	913.15	910.65	WQ B-1.1	l HW B-1	921	Water Quality Unit	Drain Basin	Solid Cover
ADPE91.8.491.8.491.7.91.3.40.0.1.39.4.40.1.6	6	HDPE	12.92	916.4	916.2	1.55	0.013	9.34	0.7	0.46	0	3.79	0.9	6.5	0.01	916.75	916.5	YI B-2	WQ B-1.1	921.35	Yard Inlet	Drain Basin	9" Pedestrian Grate
6HDPE25.38918.7918.441.020.0139.440.570.0802.070.9050.01918.84918.57YI B-2.2YI B-2.2YI B-2.1921.33Yard IndexIndex prain9" Pedestrian Grat8HDPE94.13915.4915.4915.4915.4915.4915.2YI B-2.2YI B-2.2	6	HDPE	25.41	918.24	917.9	1.34	0.013	9.34	0.65	0.16	0	2.72	0.9	6	0.01	918.44	918.07	YI B-2.1	YI B-2	921.33	Yard Inlet	Inline Drain	9" Pedestrian Grate
8         HDPE         94.13         915.4         914.45         1.01         0.013         0         1.21         2.16         3.191         6.18         0         915.12         VQ B-1.1         922         Clean Out         N/A         Clean Out Plug           8         HDPE         128.80         916.8         915.5         1.01         0.013         9.34         1.21         2.2         3.326         6.31         0.95.12         VQ B-1.2         VQ B-1.2         92         Clean Out         N/A         Clean Out Plug	6	HDPE	25.38	918.7	918.44	1.02	0.013	9.34	0.57	0.08	0	2.07	0.9	5	0.01	918.84	918.57	YI B-2.2	YI B-2.1	921.33	Yard Inlet	Inline Drain	9" Pedestrian Grate
8 HDPE 128.80 916.8 915.5 1.01 0.013 9.34 1.21 2.2 3.326 6.31 0.9 5.5 0.16 923.24 918.96 COB-1.3 COB-1.2 92 Clean Out N/A Clean Out Plug	8	HDPE	94.13	915.4	914.45	1.01	0.013	0	1.21	2.16	3.191	6.18	0	5.8	0	918.12	915.12	CO B-1.2	WQ B-1.1	922	Clean Out	N/A	Clean Out Plug
	8	HDPE	128.80	916.8	915.5	1.01	0.013	9.34	1.21	2.2	3.326	6.31	0.9	5.5	0.16	923.24	918.96	CO B-1.3	CO B-1.2	922	Clean Out	N/A	Clean Out Plug
6 HDPE 12.76 917.2 917 1.57 0.013 0 0.7 0.9 2.576 4.58 0 5.4 0 924.5 924.17 CO B-1.4 CO B-1.3 921.3 Clean Out M/A Clean Out Plug	6	HDPE	12.76	917.2	917	1.57	0.013	0	0.7	0.9	2.576	4.58	0	5.4	0	924.5	924.17	CO B-1.4	CO B-1.3	921.3	Clean Out	N/A	Clean Out Plug
6         HDPE         10.97         917.43         917.3         1.19         0.013         9.34         0.02         0.43         0.9         5         0.01         924.99         YI B-1.6         CO B-1.4         921.3         Yard Inlet         Inline Drain         12" Standard Grate	6	HDPE	10.97	917.43	917.3	1.19	0.013	9.34	0.61	0.08	0.022	0.43	0.9	5	0.01	924.99	924.99	YI B-1.6	CO B-1.4	921.3	Yard Inlet	Inline Drain	12" Standard Grate
6         HDPE         22.91         917.6         917.3         1.31         0.013         9.34         0.64         0.84         2.249         4.28         0.9         5         0.1         925.51         924.99         YI B-1.5         CO B-1.4         920.43         Yard Inlet         Inline Drain         12" Standard Grate	6	HDPE	22.91	917.6	917.3	1.31	0.013	9.34	0.64	0.84	2.249	4.28	0.9	5	0.1	925.51	924.99	YI B-1.5	CO B-1.4	920.43	Yard Inlet	Inline Drain	12" Standard Grate
6         HDPE         22.26         916.9         916.6         1.35         0.013         9.34         0.65         0.25         0         3.08         0.91         917.15         916.81         YI B-3         YI B-3 <thy b-3<="" th=""> <thy b-3<="" th=""></thy></thy>	6	HDPE	22.26	916.9	916.6	1.35	0.013	9.34	0.65	0.25	0	3.08	0.9	5.4	0.01	917.15	916.81	YI B-3	YI B-2	921.35	Yard Inlet	Inline Drain	9" Pedestrian Grate
6         HDPE         19.51         917.3         917.1         1.02         0.013         9.34         0.57         0.17         0         2.52         0.9         5         0.02         917.5         917.29         YI B-4         YI B-3         921.35         Yard Inlet         Inline Drain         9" Pedestrian Grat	6	HDPE	19.51	917.3	917.1	1.02	0.013	9.34	0.57	0.17	0	2.52	0.9	5	0.02	917.5	917.29	YI B-4	YI B-3	921.35	Yard Inlet	Inline Drain	9" Pedestrian Grate

NOTES:

1. REFER TO DETAILS 1 AND 4 / C2.92 FOR DRAIN BASIN DETAILS

2. REFER TO DETAIL 3 / C2.92 FOR FOR GRATE TYPE DETAILS

3. WATER QUALITY UNITS TO BE ADS BARACUDA S4 UNITS (OR APPROVED EQUAL). DRAIN BASINS TO BE SIZE APPROPRIATELY FOR WATER QUALITY UNIT PROVIDED.

II SPACE D THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED, AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION. C BRIARWOOD PARK POOL PROJECT SITE DEVELOPMENT PACKAGE ATION DEPARTMENT RECRE AND **BROOKHAVEN PARKS** ОF CITY SUBMITTALS / REVISIONS NO. DATE DESCRIPTION BID SET SHEET TITLE PIPE CHART PROJECT NO. DATE 18141C 07/11/2019 DRAWN BY SCALE AM N/A CHECKED BY JM SHEET NO. C2.93

![](_page_18_Figure_0.jpeg)

KAGE Ш ō BRIARWOOD PARK POOL SITE DEVELOPMENT PAC A RECF AND PARKS BROOKHAVEN ОF  $\succ$ EN CIT SUBMITTALS / REVISIONS NO. DATE DESCRIPTION BID SET SITE DETAILS PROJECT NO. DATE 18141C 07/11/ 07/11/2019 SCALE NA C4.00

 $\ge 0$ 

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

	CHAIN	CHART						
	CORN	ER & END	POST		LINE POST	POST		
FENCE HEIGHT	A	A B O.D. C			D	O.D.		
3'-3"	3'-6"	6'-0"		3'-3 <u>3</u> "	5'6"			
3'-6"	3'-9"	6'-2"		3'-5 <u>3</u> "	5'-6"			
4'-0"	4'-3"	6'-8"	2 <u>1</u> "	3'-1 <sup>3</sup> "	6'-6"	2 <sup>3</sup> 8"		
5'-0"	5'-3"	7'-8"		4'-1 <sup>3</sup> / <sub>4</sub> "	7'-6"			
6'-0"	6'-0 <sup>5</sup> 8"	9'-1"		5'-8 <del>7</del> "	8'-8"			
7'-0"	7'-0 <sup>5</sup> 8"	10'-1"		6'-8 <u>7</u> "	9'-8"			
8'-0"	8'-0 <sup>5</sup> "	11'-1"		7'-8 <sup>7</sup> / <sub>8</sub> "	10'-8"			
9'-0"	9'-0 <u>5</u> "	12'-1"	3"	8'-8 <del>7</del> "	11'-8"	2 <u>7</u> "		
10'-0"	10'-0 <u>5</u> "	13'-1"		9'-8 <u>7</u> "	12'-8"			
12'-0"	12'-0 <u>5</u> "	15'-1"		11'-8 <u>7</u> "	14'-8"			

CHAIN LINK FENCE DIMENSION CHART

CHAIN LINK GATE DIMENSION CHART - SINGLE GATE							
NORMAL OPENING	SQ. HINGE & LATCH POST	ACTUAL OPENING (E)	HINGE SETTING	RD. HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTING	FRAME (F)
3'-0"		3'-1"	2"	2 <sup>7</sup> ″ O.D.	3'-1 <u>1</u> "	2 <u>1</u> "	2'-8 <u>1</u> "
3'-6"	 2 <sup>1</sup> " ר ר	3'-7"			3'-7 <u>1</u> "		3'-2 <sup>1</sup> / <sub>2</sub> "
4'-0"	- 2 <sub>2</sub> 0.D. OR	4'-1"			4'-1 <u>1</u> "		3'-8 <u>1</u> "
5'-0"	3" O.D.	5'-1"			5'-1 <sup>1</sup> / <sub>2</sub> "		4'-8 <u>1</u> "
6'-0"	1	6'-1"			6'-1 <u>1</u> "		5'-8 <u>1</u> "
7'-0"	- 3" O.D.	7'-1"		4" O.D.	7'-1 <u>1</u> "		6'-8 <u>1</u> "
8'-0"		8'-1"	-		8'-1 <u>1</u> "		7'-8 <u>1</u> "
9'-0"		9'-1"			9'-1 <u>1</u> "		8'-8 <u>1</u> "
10'-0"		10'-1"			10'-1 <u>1</u> "		9'-8 <u>1</u> "
"				6 <sup>5</sup> / <sub>8</sub> " O.D.	10'-2 <u>1</u> "	3 <u>1</u> "	9'-8 <u>1</u> "
11'-0"				4" O.D.	11'-1 <u><sup>1</sup></u> "	2 <u>1</u> "	10'-8 <u>1</u> "
"				6 <sup>5</sup> / <sub>8</sub> " O.D.	11'-2 <u>1</u> "	3 <u>1</u> "	10'-8 <u>1</u> "
12'-0"				4" O.D.	12'-1 <sup>1</sup> / <sub>2</sub> "	2 <u>1</u> "	11'-8 <u>1</u> "
"				- 6 <sup>5</sup> / <sub>8</sub> " O.D.	12'-2 <u>1</u> "	3 <u>1</u> "	11'-8 <u>1</u> "
13'-0"					13'-1 <u>1</u> "		12'-7 <u>1</u> "

![](_page_20_Figure_3.jpeg)

![](_page_20_Figure_4.jpeg)

4

SCALE: N.T.S.

NOTES: 1. SEE CHAIN LINK GATE DIMENSION CHART (THIS SHEET) FOR POST DIMENSIONS.

2. SEE FENCE AND GATE NOTES (THIS SHEET) FOR ADDITIONAL FENCE CLARIFICATION.

🖌 — ACTUAL OPENING — END/CORNER · FRAME -POST CAP GATE LATCH GATE HINGE END/CORNER - PADLOCK PROVISION POST TENSION BAND, WELD ALL JOINTS TO TYP. MAKE RIGID FRAME TENSION BAR, FENCE FABRIC TO TYP. BE 1.5" X 1.5" FOR - 9 GAUGE CHAIN POOL ENCLOSURE LINK; KNUCKLED FINISH GRADE -TOP AND BOTTOM \_\_\_\_ TIE WIRE, 18" O.C., TYP. - CONCRETE FOOTING; 3000 PSI @ 28 DAYS; SLOPE FOOTING TO DRAIN **/**−1' –**/** CHAIN LINK GATE (SINGLE) **^** SCALE: N.T.S.

1. SEE CHAIN LINK FENCE DIMENSION CHART (THIS

2. SEE FENCE AND GATE NOTES (THIS SHEET) FOR

SHEET) FOR POST DIMENSIONS.

ADDITIONAL FENCE CLARIFICATION.

# CHAIN LINK GATE DIMENSION CHART - DOUBLE GATE

NORMAL OPENING	SQ. HINGE & LATCH POST	ACTUAL OPENING (E)	HINGE SETTING	RD. HINGE & LATCH POST	ACTUAL OPENING	HINGE SETTING	FRAME (F)
6'-0"		6'-0"	2"	2 <sup>7</sup> " O.D.	6'- <u>1</u> "	2 <sup>1</sup> "	2'-8 <u>1</u> "
7'-0"	 2 <u>1</u> " ∩ ⊓	7'-0"			7'- <u>1</u> "		3'-2 <sup>1</sup> / <sub>2</sub> "
8'-0"	OR	8'-0"			8'- <u>1</u> "		3'-8 <u>1</u> "
10'-0"	3" O.D.	10'-0"			10'- <u>1</u> "		4'-8 <u>1</u> "
12'-0"	-	12'-0"			12'- <u>1</u> "		5'-8 <u>1</u> "
14'-0"	- 3" O.D.	14'-0"		4" O.D.	14'- <u>1</u> "		6'-8 <u>1</u> "
16'-0"		16'-0"			16'- <u>1</u> "		7'-8 <u>1</u> "
18'-0"		18'-0"			18'- <u>1</u> "		8'-8 <u>1</u> "
20'-0"	-	20'-0"			20'- <u>1</u> "		9'-8 <u>1</u> "
"				6 <u>5</u> " O.D.	20'-2 <u>1</u> "	3 <u>1</u> "	9'-8 <u>1</u> "
22'-0"				4" O.D.	22'- <u>1</u> "	2 <u>1</u> "	10'-8 <u>1</u> "
"				6 <sup>5</sup> / <sub>8</sub> " O.D.	22'-2 <sup>1</sup> / <sub>2</sub> "	3 <u>1</u> "	10'-8 <u>1</u> "
24'-0"				4" O.D.	24'- <u>1</u> "	2 <sup>1</sup> / <sub>4</sub> "	11'-8 <u>1</u> "
"				6 <sup>5</sup> " O D	24'-2 <u>1</u> "	- 3 <sup>1</sup> "	11'-8 <u>1</u> "
26'-0"					26'- <u>1</u> "		12'-7 <u>1</u> "

# CHAIN LINK GATE DIMENSION CHART

![](_page_20_Picture_14.jpeg)

(THIS SHEET) FOR POST DIMENSIONS.

2. SEE FENCE AND GATE NOTES (THIS SHEET) FOR ADDITIONAL FENCE

CLARIFICATION.

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

![](_page_20_Figure_19.jpeg)

![](_page_21_Figure_0.jpeg)

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

THIS DRAWING IS FOR BASIS OF DESIGN ONLY. CONTRACTOR TO ENGINEER IN THE STATE OF GEORGIA PRIOR TO ORDERING

![](_page_21_Figure_12.jpeg)

C4.03

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)

# LOCATION MAP

![](_page_23_Picture_2.jpeg)

# 2335 BRIARWOOD WAY BROOKHAVEN, GEORGIA 30319

# PROJECT DESCRIPTION:

SANITARY SEWER & WATER SERVICE LINES TO BE INSTALLED TO SERVICE THE POOL BUILDING.

ALL PROPOSED SANITARY SEWER IS PRIVATE AND WILL TIE INTO EXISTING SANITARY SEWER MAINS WITHIN THE PROPERTY. ALL PROPOSED WATER SERVICE WILL TIE INTO EXISTING WATER MAINS WITHIN THE PROPERTY.

# LEGEND:

C5.01

![](_page_23_Picture_8.jpeg)

EXISTING FIRE APPARATUS ACCESS ROAD

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

![](_page_23_Picture_12.jpeg)

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![](_page_23_Picture_13.jpeg)

BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE	CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT BROOKHAVEN			
BMITTALS	S / REVIS	IONS SCRIPTION			
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BID SET					
UTILITY PLAN KEY SHEET					
DJECT NO 3141C	D. DA	ATE 07/11/2019			
AWN BY M	sc	CALE 1" = 50'			

HEET NO.

C5.00

![](_page_23_Picture_15.jpeg)

![](_page_23_Picture_16.jpeg)

![](_page_24_Figure_1.jpeg)

\_\_\_\_\_ W \_\_\_\_\_ \_\_\_\_\_ W \_\_\_\_\_

![](_page_24_Picture_3.jpeg)

SANITARY SEWER & WATER SERVICE LINES TO BE INSTALLED TO SERVICE THE POOL BUILDING.

ALL PROPOSED SANITARY SEWER IS PRIVATE AND WILL TIE INTO EXISTING SANITARY SEWER MAINS WITHIN THE PROPERTY. ALL PROPOSED WATER SERVICE WILL TIE INTO EXISTING WATER MAINS WITHIN THE PROPERTY.

# SANITARY SEWER NOTES:

- ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, LIFT STATIONS, AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS LATEST EDITION, ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.
- DEVELOPER SHALL PROVIDE SANITARY SEWER AS-BUILT DRAWINGS. CONSTRUCTION PERMIT AND A MANDATORY PRE-CONSTRUCTION CONFERENCE WITH DeKALB COUNTY INSPECTOR, BY APPOINTMENT ONLY, ARE REQUIRED PRIOR TO ANY SEWER WORK.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED 4. TO THE DENSITY OF 96% OF THE THEORETICAL MAXIMUM DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER
- SYSTEMS. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK STABILIZATION AND PROTECTION SHALL BE REQUIRED AS PER EROSION CONTROL REQUIREMENTS AND THE LAWS OF THE CITY OF WINDER.
- ALL PROPOSED SANITARY SEWER PIPING IS TO BE INSTALLED AT A MINIMUM SLOPE OF 1.0% UNLESS OTHERWISE STATED (SEE SANITARY SEWER PROFILES FOR ADDITIONAL INFORMATION).
- SEWERS SHOULD BE LAID AT LEAST 10' HORIZONTALLY AND 18" VERTICALLY FROM ANY EXISTING OR PROPOSED WATER MAIN WITH THE WATER MAIN ABOVE THE SEWER PIPE. SEWERS CROSSING WATER MAINS SHALL BE ARRANGED SO THAT THE SEWER THE SEWER JOINTS WILL BE EQUAL DISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS WHERE A WATER MAIN CROSSES UNDER A SEWER, EITHER THE WATER MAIN OR THE SEWER SHOULD BE DUCTILE IRON OR SHALL BE ENCASED IN DUCTILE IRON OR CONCRETE FOR A MINIMUM OF ONE FULL JOINT LENGTH ON EACH SIDE OF THE CROSSING.
- FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR 9. REVIEW AND APPROVED BY THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT BEFORE CHANGES ARE IMPLEMENTED. 10. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF
- WATERSHED MANAGEMENT INSPECTOR 72 HOURS PRIOR TO START OF CONSTRUCTION.
- 11. ALL PVC TO BE SDR35 AND ALL DIP TO BE CLASS 350, UNLESS OTHERWISE NOTED.

### WATER NOTES:

- 1. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, LIFT STATIONS, AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS LATEST EDITION. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.
- VAULTS SHALL HAVE ONLY ONE (1) LINE ENTERING AND LEAVING THE STRUCTURE.
- POTABLE WATER MAINS SHALL MAINTAIN A CLEARANCE OF TEN (10') FEET HORIZONTAL AND EIGHTEEN (18") INCHES VERTICAL FROM ALL NON-POTABLE PIPELINES.
- 8. BACKFLOW PREVENTION DEVICES IS REQUIRED TO BE INSTALLED ON ALL NON-DOMESTIC WATER SERVICE CONNECTION LINES INCLUDING: COMMERCIAL, FIRE LINE, AND IRRIGATION SERVICES.
- 9. WATER CONNECTIONS TO FACILITIES WITH HIGH HAZARD POTENTIAL REQUIRE THE INSTALLATION OF REDUCED PRESSURE ZONE PRINCIPLE (RPZ) ASSEMBLIES.
- 10. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVED BY THE DeKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT BEFORE CHANGES ARE IMPLEMENTED.
- 11. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR 72 HOURS PRIOR TO START OF CONSTRUCTION.
- 12. THRUST BLOCKS TO BE USED AT ALL BENDS, PLUGS, AND TEES ON LINES 4" AND LARGER. 13. FIRE HYDRANTS SHOWN IN THE RADIUS OF A CURVE SHALL BE FIELD
- ADJUSTED SO THAT THE ACTUAL INSTALLATION OF FIRE HYDRANTS WILL BE A MIN. OF 3' OUTSIDE OF CURVE RADIUS.
- 14. ANY CHANGES TO THE WATER DRAWINGS MUST BE APPROVED BY THE REGULATED DeKALB COUNTY UTILITIES DEPARTMENT.
- 15. ALL FIRE HYDRANTS SHALL CONFORM TO THE SPECIFICATIONS OF THE REGULATED DeKALB COUNTY UTILITIES DEPARTMENT.

![](_page_24_Picture_28.jpeg)

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![](_page_24_Picture_29.jpeg)

	BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE		CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT	BROOKHAVEN		
SUB	MITTALS	S / RE	VISIONS	S	NI		
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UTILITY PLAN							
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AM SCALE AM 1" = 20'							
	HECKED BY						
	HEET NO.						

C5.01

- PROPOSED 6"

SEE PLUMBING PLANS

FOR CONTINUATION

/ PVC

PROPOSED WATERLINE

- EXISTING WATERLINE
- EXISTING SEWER LINE
- PROPOSED SEWER ROUTING
- PROPOSED STORM LINE

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

# CONTRACTOR SANITARY SEWER NOTE:

DeKALB COUNTY RECORDS DO NOT INDICATE ANY SANITARY SEWER ON THIS PROPERTY. THE CONTRACTOR WILL PROVIDE ALL EXISTING AND AS-BUILT INFORMATION AS REQUIRED BY DEKALB COUNTY FOR THEIR RECORDS. SELECTED SANITARY SEWER SERVICE MAY BE ABANDONED UPON APPROVAL BY THE DeKALB COUNTY WATERSHED DEPARTMENT.

![](_page_24_Picture_42.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_25_Picture_1.jpeg)

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

![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_1.jpeg)

<text><text></text></text>						
	O SA ANA	R G SD20 SSIONAL LIPA KEEB KK				
BRIARWOOD PARK POOL PROJECT	SITE DEVELOPMENT PACKAGE		DITTOL BROOKHAVEN FARKS AND RECREATION DEFARTIMENT GA			
SUBMITTALS	6 / RE`	VISIONS DESCRIPT	ION			
		· ·				
	BID SET					
WATER DETAILS						
PROJECT NO. 18141C DRAWN BY AM CHECKED BY JM SHEET NO. C5.03						

![](_page_26_Picture_3.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_27_Picture_6.jpeg)

SCALE: 1" = 20 '

# GENERAL NOTES:

- UNDERGROUND UTILITIES:
   UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, LANDSCAPE ARCHITECT, OR THEIR REPRESENTATIVES. BEFORE YOU DIG, CALL TENNESSEE ONE CALL SYSTEM--1-800-351-1111.
   THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY
- UNDERGROUND UTILITIES TO REMAIN.
  2. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATION FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.

LANDSCAPE NOTES:

- 1. PLANTING BEDS AND PLANT LOCATIONS SHALL BE STAKED BY THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION OF THE PLANTS.
- PLANTING BEDS SHALL BE CLEARED OF ALL GRASS AND WEEDS PRIOR TO INSTALLATION OF PLANTS, INCLUDING SPRAYING "ROUND-UP" OR APPROVED SUBSTITUTE TO KILL ACTIVELY GROWING PLANTS.
- PLANT BEDS SHALL BE PREPARED AS CALLED FOR IN THE SPECIFICATIONS AND DETAILS.
  3. ALL OTHER DISTURBED AREAS ARE TO BE SEEDED OR SODDED AS PER THE PLANS. ADDITIONAL SEEDING OR SODDING, IF REQUIRED, WILL BE AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. SEE DESIGN CONTROL SUFET FOR SEEDING.
- EROSION CONTROL SHEET FOR SEEDING.
  PLANTING BEDS SHALL HAVE A THREE (3) INCH SHREDDED HARDWOOD BARK MULCH OVER THE ENTIRE BED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PRIOR TO PLANTING, ALL PLANTED AREAS SHALL BE TREATED WITH A WATER-SOLUBLE HERBICIDE FOR THE NON-SELECTIVE CONTROL OF ANNUAL AND PERENNIAL WEEDS PRIOR TO PLANTING.
- ALL TREE AND SHRUB PLANTING PITS SHALL BE BACKFILLED WITH A PLANTING SOIL MIXTURE OF ONE (1) PART ORIGINAL SOIL AND ONE (1) PART TOPSOIL, THOROUGHLY MIXED. SAMPLE OF MIXTURE TO BE APPROVED IN WRITING BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
   PLANT GROUNDCOVER & ANNUAL BEDS IN SAME MIXTURE AS SHRUBS. AFTER PLANTING & MULCHING,
- WATER AREAS TO POINT OF SATURATION.
  8. ALL PLANTED AREAS ARE TO BE FERTILIZED WITH GRANULAR FERTILIZER. LANDSCAPE CONTRACTOR IS TO PROVIDE SOIL TEST RESULTS AND PROPOSED FERTILIZER APPLICATION RATES TO THE OWNER OR OWNER'S REPRESENTATIVE FOR APPROVAL.
- ALL PLANT MATERIAL IS TO BE NURSERY GROWN AND TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60. 1-2004) OR LATEST EDITION. PLANTS NOT IN COMPLIANCE WILL BE REJECTED AND REPLACED WITH PLANTS THAT MEET THE STANDARDS.
- SPRAY TREES AND SHRUBS WITH AN ANTI-DESICCANT IF FOLIAGE IS PRESENT.
   EVERGREEN TREES AND SHRUBS SHALL BE PLANTED IN THE SAME MANNER AS DECIDUOUS MATERIAL IS
- PLANTED.
  12. DO NOT PRUNE ANY PLANT MATERIAL UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE OWNER OR
- OWNER'S REPRESENTATIVE.
  13. ALL LANDSCAPE MATERIAL SHALL BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE BEFORE INSTALLATION. MATERIALS MAY BE VIEWED AT LANDSCAPE CONTRACTOR'S HOLDING SITE OR AT THIS SITE. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE OF THE AVAILABILITY OF THE MATERIALS TO BE INSPECTED.
- ALL MATERIALS INSPECTED ON THE SITE AND FOUND TO BE UNACCEPTABLE SHALL BE REMOVED FROM THE SITE ON THE DAY OF INSPECTION.
   FIELD CHANGES MUST BE APPROVED IN WRITING BY THE OWNER OR OWNER'S REPRESENTATIVE.
- FIELD CHANGES MOST BE APPROVED IN WRITING BY THE OWNER OR OWNER'S REPRESENTATIVE.
   EXISTING PLANT MATERIAL IS TO BE EVALUATED BY THE LANDSCAPE ARCHITECT FOR POSSIBLE RELOCATION ON SITE. THE LANDSCAPE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT FORTY-EIGHT (48) HOURS BEFORE BEGINNING WORK.
- ALL PLANT MATERIAL SHALL BE SUPPLIED BY APPROPRIATE SOURCES TO PREVENT UNDUE STRESS OR PROLONGED ACCLIMATIZATION WHICH WOULD INHIBIT PLANT GROWTH.
   LANDSCAPE CONTRACTOR IS TO VERIFY PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST. IF
- LANDSCAPE CONTRACTOR IS TO VERIFY PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST. IF DISCREPANCIES OCCUR, LANDSCAPE CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT IMMEDIATELY. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE.
   EVERGREEN TREES TO BE A MINIMUM OF 6' IN HEIGHT AT TIME OF PLANTING - DECIDUOUS TREES TO BE
- EVERGREEN TREES TO BE A MINIMUM OF 6 IN HEIGHT AT TIME OF PLANTING DECIDUOUS TREES TO BE 2" DBH MIN AT TIME OF PLANTING. SEE PLANT LIST FOR LARGER MATERIAL REQUIRED.
   MULTI-TRUNK PLANT MATERIAL SHALL BE ONE PLANT GROWN FROM SINGLE SEEDLING. NO CLUMP
- MULTI-PLANT STOCK WILL BE ACCEPTED.
  21. IF IN THE OPINION OF THE LANDSCAPE ARCHITECT, THE CENTRAL LEADER OF ANY TREE HAS BEEN CUT IN THE HISTORY OF THE PLANT'S GROWTH, THE MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE DECISION OF THE LANDSCAPE ARCHITECT WILL BE FINAL.

#### PLANT STOCK NOTES:

- 1. ALL CANOPY TREES SHALL BE LIMBED UP AT LEAST 7' WITH A MINIMUM HEIGHT OF 12'.
- 2. ALL PEDESTRIAN ACCESS WAYS MUST HAVE AT LEAST 7' OF CLEARANCE.
- ALL UNDERSTORY TREES SHALL BE LIMBED UP AT LEAST 4' WITH A MINIMUM HEIGHT OF 8'.
   ALL CANOPY AND UNDERSTORY TREES SHALL HAVE ONE STRONG CENTRAL LEADER TRUNK. NO MULTI-TRUNK UNLESS SPECIFIED.
- 5. THE SOUTH SIDE OF ALL TREES SHALL BE MARKED BEFORE TRANSPLANT FOR DIRECTIONAL PLACEMENT AT THE TIME OF PLANTING. CONTRACTOR SHALL BE RESPONSIBLE FOR DIRECTIONAL PLACEMENT.
- ALL TREES SHALL BE MATCHED SPECIMENS WITH A FULL CANOPY AND A UNIFORM BRANCHING HABIT.
   EVERGREEN TREES SHALL BE FULL TO GROUND WITH A HEAVY CANOPY AND STRONG CENTRAL LEADER.
- EVERGREEN TREES SHALL BE FULL TO GROUND WITH A HEAVY CANOPY AND STRONG CENTRAL LEADER.
   ALL SHRUBS SHALL HAVE A FULL, HEAVY BODY FOR THE COMPLETE HEIGHT OF THE SHRUB AND SHOULD NOT SHOW STRESS AT TIME OF PLANTING.
- 9. ALL SHRUBS SHALL HAVE A MINIMUM #3 CONTAINER AT TIME OF PLANTING. PLANT SELECTION MUST BE CHOSEN BY PLANT SIZE, NOT CONTAINER SIZE.
- 10. ALL SHRUBS, EXCEPT AS NOTED\*\*, SHALL BE PLANTED AND MAINTAINED IN THEIR NATURAL FORM TO CREATE A PLANT MASSING EFFECT. NO "GUMDROP" PRUNING IS ALLOWED.
- MULCH "VOLCANOES" ARE UNACCEPTABLE. MULCH MUST BE INSTALLED PER DETAILS.
   INSTALL ALL PLANTS IN ACCORDANCE WITH ALL APPLICABLE DETAILS AND SPECIFICATIONS INCLUDED WITHIN THE CONSTRUCTION PACKAGE.
- ALL PLANTS MUST BE SELECTED, INSTALLED, AND MAINTAINED ACCORDING TO THE SPECIFICATIONS.
   ALL TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM MAJOR UTILITY LINES. CONTACT LANDSCAPE ARCHITECT WHERE DISCREPANCIES OCCUR FOR FIELD ADJUSTMENT.

SEE C0.01 FOR BROOKHAVEN / DEKALB NOTES

PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	REMARKS
( · · · · · · · · · · · · · · · · · · ·	CED DEO	4	CEDRUS DEODARA	DEODAR CEDAR	B&B OR CONT.	2.5" CAL. MIN.	
Ć)	ILE NEL	19	ILEX X `NELLIE R STEVENS`	NELLIE STEVENS HOLLY	B&B OR CONT.	2" CAL	MIN. HT. 6` X MIN. SPREAD 4`
$\odot$	QUE FAL	3	QUERCUS FALCATA	SOUTHERN RED OAK	B&B OR CONT.	2.5" CAL. MIN.	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	REMARKS
$\odot$	ABE EDW	105	ABELIA X GRANDIFLORA `EDWARD GOUCHER`	GLOSSY ABELIA	CONT.	24" HT. MIN	
$\odot$	GAR AIM	15	GARDENIA JASMINOIDES `AIMEE`	AIMEE GARDENIA	CONT.	18" HT. MIN	
SHAWAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MUH CAP	63	MUHLENBERGIA CAPILLARIS	PINK MUHLY	CONT.	18" HT. MIN	24" OC
$\bigcirc$	PIT WHD	26	PITTOSPORUM TOBIRA `WHEELER`S DWARF`	DWARF PITTOSPORUM	CONT.	18" HT. MIN	
$\odot$	RHA IND	28	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	CONT.	18" HT. MIN	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	CYN HYB	1,919 SF	CYNODON DACTYLON `419 HYBRID`	BERMUDA GRASS	SOD		
) , , , , , , , , , , , , , , , , , , ,		4,190 SF	ERAGROSTIS CURVULA	WEEPING LOVEGRASS	SEED		
	LIR MU2	647	LIRIOPE MUSCARI	LILY TURF	6" POT	12" O.C.	

![](_page_28_Picture_35.jpeg)

![](_page_29_Figure_0.jpeg)

- SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE REMOVE ALL NON-BIODEGRADABLE MATERIAL BURLAP, AND WIRE BASKET TO 6" BELOW SHOULDER OF ROOTBALL; LOOSEN OR SCORE MATTED ROOTS WITH A SHARP KNIFE; CUT AWAY DEAD, DISEASED, BROKEN, TWISTED, OR GIRDLING ROOTS

- ROUGHEN SIDES ON PLANTING PIT THAT HAVE BEEN GLAZED FROM **DIGGING EQUIPMENT** 

![](_page_29_Figure_5.jpeg)

![](_page_29_Picture_6.jpeg)

ROW WIDTH "A"	PLANTS / S.F.
5.2"	4.61
6.9"	2.60
8.7"	1.66
10.4"	1.15
13.0"	0.74
15.6"	0.51
20.8"	0.33

### GENERA

- 1. UNLESS OTHERWISE NOTED, SEEDING SHALL BE INSTALLED ON ALL CUT AND FILL SLOPES, SHOULDERS, AND DISTURBED AREAS GENERATED BY CONSTRUCTION. 2. SEEDING SHALL BE INSTALLED AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED.
- SEEDING PROCEDURES (REFER TO TABLES AT RIGHT FOR APPLICATION RATES):
- SHAPE AND SMOOTH GRADE WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES.
- 2. SPREAD LIME AND FERTILIZER IN DRY FORM UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION.
- 3. SCARIFY SEEDBED TO A DEPTH OF 1" TO 4" AS DETERMINED ON-SITE. THE SEEDBED MUST BE WELL PULVERIZED. SMOOTHED, AND FIRMED PRIOR TO SEED INSTALLATION. 4. DISTRIBUTE SEED UNIFORMLY OVER FRESHLY PREPARED SEEDBED WITH CULTIPACKER-SEEDER,
- DRILL, ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25% OF THE GROUND SURFACE EXPOSED. MULCH SHALL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AS 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. 6. WITHIN 24 HOURS AFTER SEEDING AN PLACEMENT OF MULCH, WATER AREA TO A SATURATION
- DEPTH OF  $\frac{1}{2}$ ".

### MAINTENANCE:

- 1. WHEN PLANTS ARE 2" TO 4" TALL, TOPDRESS AREA WITH SEED AND APPLY FERTILIZER (5-10-15) AT A RATE OF 300 LBS. / ACRE.
- 2. AT THE BEGINNING OF THE SECOND GROWING SEASON, APPLY FERTILIZER (5-10-15) AT A RATE OF 800 LBS. / ACRE.

![](_page_29_Picture_22.jpeg)

![](_page_29_Figure_23.jpeg)