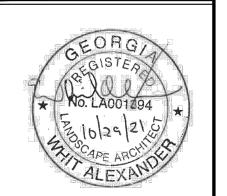
LANGFORD PARK

SITE DEVELOPMENT DOCUMENTS

PREPARED FOR: CITY OF BROOKHAVEN PARKS AND RECREATION DEPARTMENT

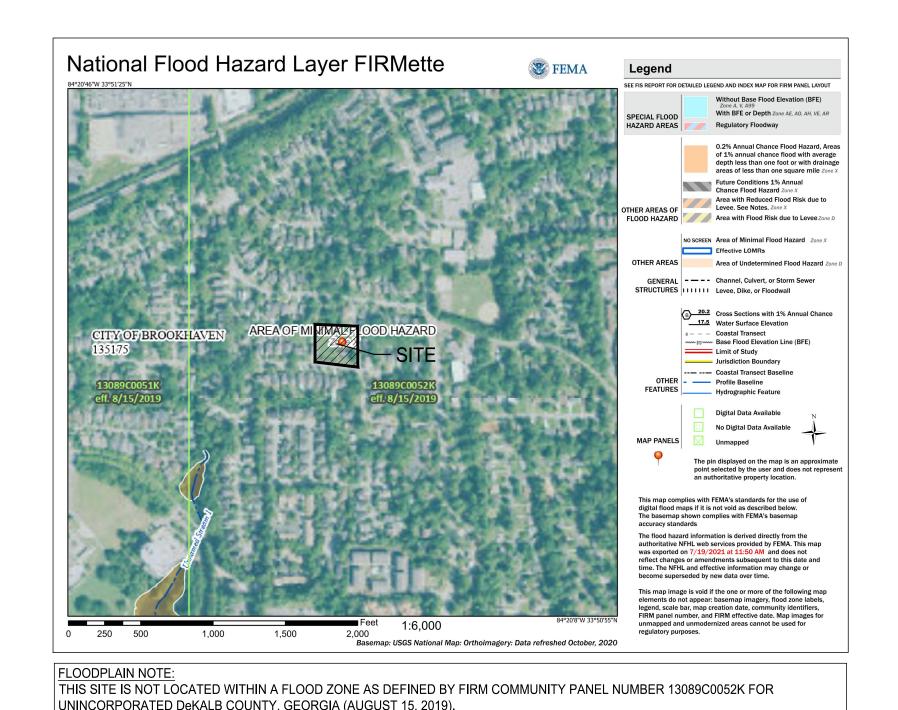




SHEET INDEX SITE INFORMATION OWNER CITY OF BROOKHAVEN • PROPERTY ADDRESS: 1174 PINE GROVE AVENUE, ATLANTA, GA 30319 LANGFORD PARK PARCEL ID: 18 200 08 022 4362 PEACHTREE RD. NE (EMC ENGINEERS, P.C.) • ZONING CLASS: R-75 **GENERAL NOTES** SITE RETAINING WALL STRUCTURAL BROOKHAVEN, GA 30319 • TOTAL SITE AREA: ± 35,382 SF (± 0.8123 AC.) GENERAL NOTES, SPECIAL INSPECTION TOTAL DISTURBED AREA: ± 26,076 SF (± .60 AC.) SITE RETAINING WALL FOUNDATION PLAN CONTACT: BRIAN BORDEN, DIRECTOR TOTAL IMPERVIOUS AREA: ± 3,484 SF (± .080 AC.) & SECTION SITE RETAINING WALL FOUNDATION PLAN STATE WATERS ARE NOT ONSITE OR WITHIN 200' OF THE SITE **EXISTING TREE SURVEY** 404.637.0562 LAYOUT PLAN CITY OF BROOKHAVEN FILE # LD21-00040 GRADING PLAN DEVELOPER DEKALB COUNTY DEVELOPMENT FILE # 3100502 INITIAL ESPC PLAN (DEKALB COUNTY REVIEW INCLUDES GIS, WATERSHED, AND FIRE) FINAL ESPC PLAN **ESPC NOTES ESPC NOTES** CITY OF BROOKHAVEN **ESPC NOTES** PROJECT SCOPE OF WORK: ESPC DETAILS PARKS AND RECREATION DEPARTMENT THE PROJECT IS A DEVELOPMENT OF A NEW PARK SPACE INCLUDING A ESPC DETAILS LOOPED, CONCRETE WALKING TRAIL, A NEW PLAYGROUND, A PAVILION, AND **ESPC DETAILS** 3360 OSBORNE ROAD, NE SITE DETAILS SEATING AREAS. SITE GRADING, ON-SITE STORM INFRASTRUCTURE, BROOKHAVEN, GA 30319 SITE DETAILS C4.03 SITE DETAILS CONTACT: BRIAN BORDAN, DIRECTOR UTILITY PLAN ANGFORD LOPMENT UTILITY DETAILS C5.10 PHONE: 404-637-0562 L1.00 LANDSCAPE PLAN LANDSCAPE DETAILS & SCHEDULES DESIGNER CONSULTANTS

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 4362 PEACHTREE ROAD NE BROOKHAVEN, GA 30319 PHONE: 404.637.0562 24-HR. EMERGENCY CONTACT BRIAN BORDEN - 404.637.0562





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 **LOCATION MAP** BROOKHAVEN VILLAGE

DEKALB COUNTY JCKHEAD RIDGEDALE PARK LENOX PARK

SURVEYOR

TERRA MARK LAND SURVEYING, INC. 1396 BELLS FERRY ROAD MARIETTA, GEORGIA 30066 PHONE: 770-421-1927

STRUCTURAL

EMC STRUCTURAL ENGINEERS, P.C. 4525 TROUSDALE DRIVE NASHVILLE, TENNESSEE 37204 PHONE: 615-781-8199

ELECTRICAL:

PARSONS ENGINEERING, INC 4751 TROUSDALE DRIVE, SUITE 202 NASHVILLE, TN 37220-1440 PHONE: 615-386-9396



ISSUED FOR BID

JBMITTALS / REVISIONS

IO. DATE

DESCRIPTION

PERMIT REVISIONS

DEVE

COVER

20180-1 03/03/2022 DRAWN BY MTC CHECKED BY

C0.00

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
- 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
- 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

HORIZONTAL CONTROL TRAVERSE THROUGH GIVEN POINTS TO CONFIRM GEOMETRIC

- 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
- 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. 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.
- 20. 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.
- 21. THE CONTRACTOR SHALL PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY
- 22. 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.
- 23. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION.
- 24. 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. 25. THE CONTRACTOR SHALL PERFORM ALL QUANTITY TAKEOFFS REQUIRED FOR BIDDING
- AND CONSTRUCTION OF THIS PROJECT. LOSE AND ASSOCIATES, 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). 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.
- 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.
- 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. 15.3. IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE 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

TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.

- 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
- 25.2. PROVIDE TEMPORARY FENCES, BARRICADES, COVERINGS OR OTHER PROTECTIONS 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.
- 3. 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

EXISTING UTILITIES

- 1. 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 & ASSOCIATES, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE BASE SURVEY INFORMATION PROVIDED BY OTHERS.

DEVELOPMENT

- 1. NOTIFY OWNER AND LOSE & ASSOCIATES, 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 TENNESSEE STORMWATER REGULATIONS.

- 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
- 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.
- 6. 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
- 8. ELEVATIONS SHOWN ON THE PLANS IS THE FINISH GRADE ELEVATION. 9. 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. 2. 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. 8. CONTRACTOR SHALL NOTIFY LOSE & ASSOCIATES, 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
- 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. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY PROTECTED TREES THAT
- ARE DAMAGED DURING CONSTRUCTION. IF PROTECTED TREES ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION, THEY MUST BE PROTECTED DURING SITE CONSTRUCTION.
- 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
- FROM THE TREE SURGEON FOR PROTECTION MEASURES. CONTRACTOR SHALL BE RESPONSIBLE FOR IN-FIELD COORDINATION WITH THE DESIGNER TO RESOLVE ANY CONFLICTS THAT MAY ARISE DUE TO PROTECTED
- 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. 2.9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH 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:

- 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 PLACE 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 USING 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. 6. ALL TREE PROTECTION DEVICES MUST REMAIN IN FUNCTIONING CONDITION UNTIL
- COMPLETION OF THE PROJECT: 6.1. 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. 8.1. 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 SPECIES QUALITY TO THE REPLACED BOUNDARY TREE, AND SHALL BE ECOLOGICALLY COMPATIBLE WITH THE INTENDED GROWING SITE AS DETERMINED BY
- 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 BOARD OF APPEALS. 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 BOARD OF
- 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
- ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED
- 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. 6. ALL REQUIRED VEGETATION MUST BE MAINTAINED FOR TWO GROWING SEASONS AFTER
- THE DATE OF FINAL INSPECTION. ALL TREE PROTECTION AREAS TO BE PROTECTED FROM SEDIMENTATION.

ABBREVIATIONS ASPH - ASPHALT

BOC - BOTTOM OF CURB

@ - AT

BFP - BACKFLOW PREVENTER OD - OUTSIDE DIAMETER - BOTTOM OF STEP - PERFORATED DRAIN PD - BOTTOM OF WALL - PROPERTY LINE CENTERLINE POB - POINT OF BEGINNING - CONTROL JOINT - POWER POLE CO - COMPANY - RADIUS CONT - CONTINUOUS **ROW - RIGHT OF WAY** CY - CUBIC YARD SERV - SERVICE DIA - DIAMETER SCH - SCHEDULE DR - DRIVE - SQUARE FEET EJ - EXPANSION JOINT S.F. - SILT FENCE ELEC - ELECTRIC SQ - SQUARE **ELEV - ELEVATION** SQARE YARD FH - FIRE HYDRANT SIG - SIGNAL EX - EXISTING SPEC - SPECIFICATION(S) FT - FEET STA - STATION - STREET ST

NIC - NOT IN CONTRACT

NO - NUMBER

O.C. - ON CENTER

FL - FLOW LINE GALV - GALVANIZED - TELEPHONE HP - HIGH POINT - TOP OF CASTING HT - HEIGHT TOC - TOP OF CURB HW - HEADWALL - TOP OF FOOTING - TOP OF PAVEMENT **HYD** - **HYDRANT** ID - INSIDE DIAMETER - TOP OF STEP TS JUNC - JUNCTION TW - TOP OF WALL LOC - LIMITS OF CLEARANCE TYP. - TYPICAL L.O.D. - LIMITS OF DISTURBANCE VERT - VERTICAL LF - LINEAR FEET

W

- WATER

MAX - MAXIMUM WS - WATER SERVICE MIN - MINIMUM WV - WATER VALVE MH - MANHOLE WWF - WELDED WIRE FABRIC MPH - MILES PER HOUR

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

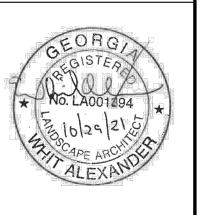
BVCS - BEGINNING OF VERTICAL CURVE STATION

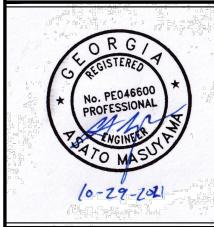
NOTE: THESE ABBREVIATIONS ARE GENERAL; INDIVIDUAL SHEETS MAY INCLUDE OTHERS.

"C" SHEETS LEGEND

— OE — OE — OVERHEAD ELECTRIC — UE — UE — UNDERGROUND ELECTRIC — G —— G —— GAS — SW — STORM SEWER — SS — SANITARY SEWER BENCHMARK FIRE HYDRANT

DRAWING AND THE DESIGN SHOWN IS THE PROPERT E ARCHITECT. REPRODUCTION, COPYING, OR USE OF TH ND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.





<u>Д</u>

0

Ŋ

UBMITTALS / REVISIONS IO. DATE DESCRIPTION

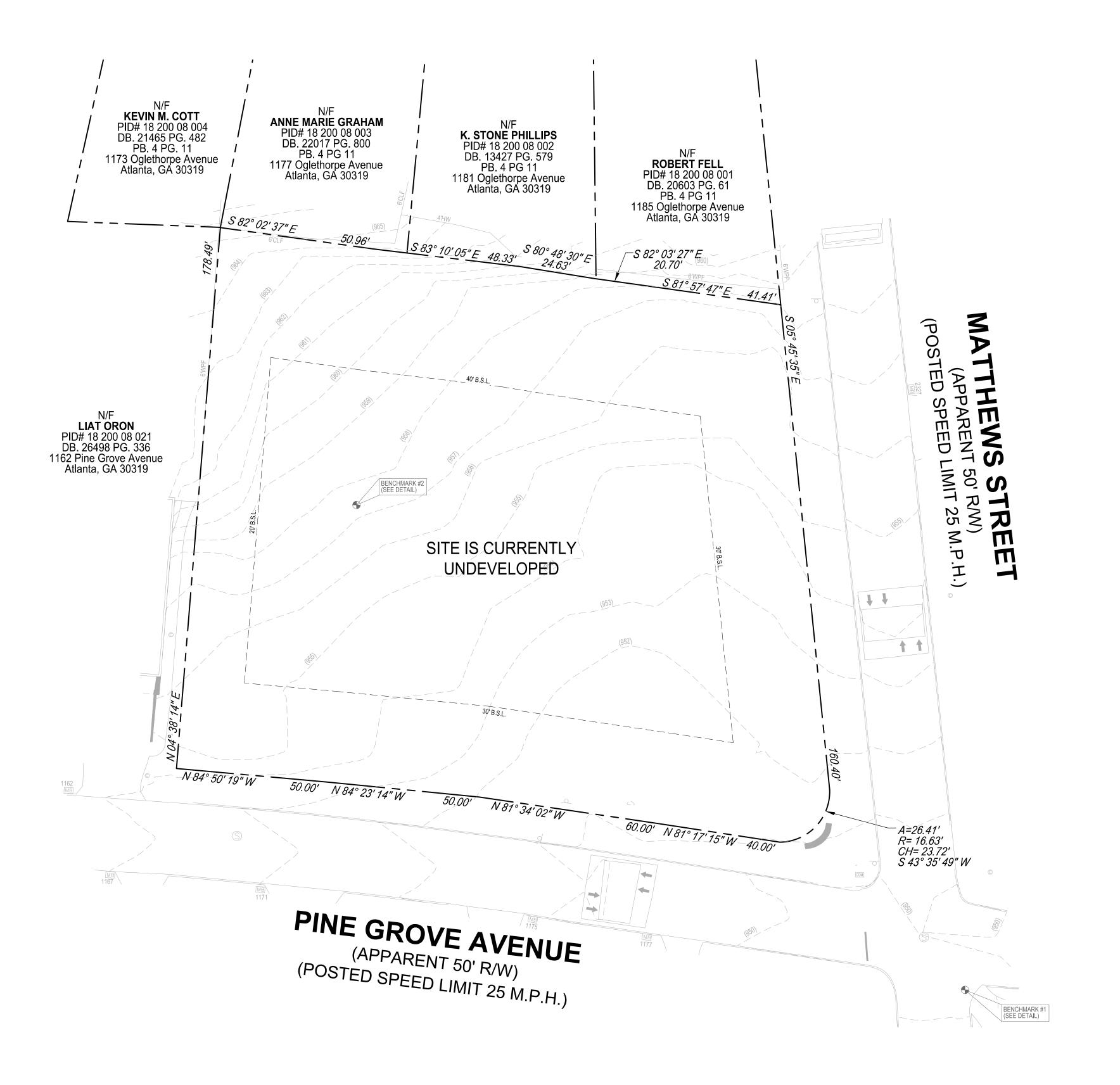
ISSUED FOR BID

GENERAL NOTES

20180-1 03/03/2022 DRAWN BY MTC NTS CHECKED BY DMY

SHEET NO. C0.01

(now what's **below**. Call before you dig.



EXISTING CONDITIONS NOTES

- EXISTING CONDITIONS BASED ON SURVEY PROVIDED BY TERRAMARK LAND SURVEYING, INC., DATED 11/17/2020.
- PRIOR TO SURVEY, 2 EXISTING STRUCTURES WERE DEMOLISHED AND REMOVED BY THE CITY OF BROOKHAVEN (DEMO WORK WAS COMPLETED BY 10/2020).

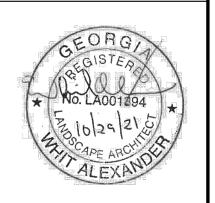
CURRENT OWNER: CITY OF BROOKHAVEN

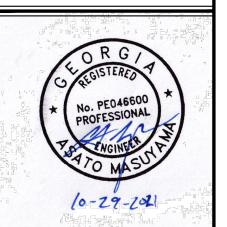
TAX PARCEL ID: 18 200 08 022

ADDRESS: 1174 PINE GROVE AVENUE

DESIGN SPACES FOR LIFE

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.





SEORGIA

LANGFORD PARK
DEVELOPMENT DOCUMENTS

CITY OF BROOKHAVEN PARKS AN

SUBMITTALS / REVISIONS

NO. DATE DESCRIPTION

1 12/28/21 PERMIT REVISIONS

--- --- ----

ISSUED FOR BID

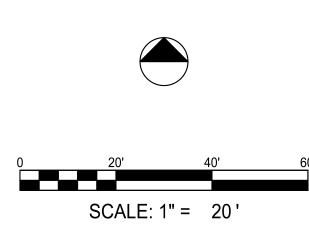
EXISTING CONDITIONS (GIS PLAN)

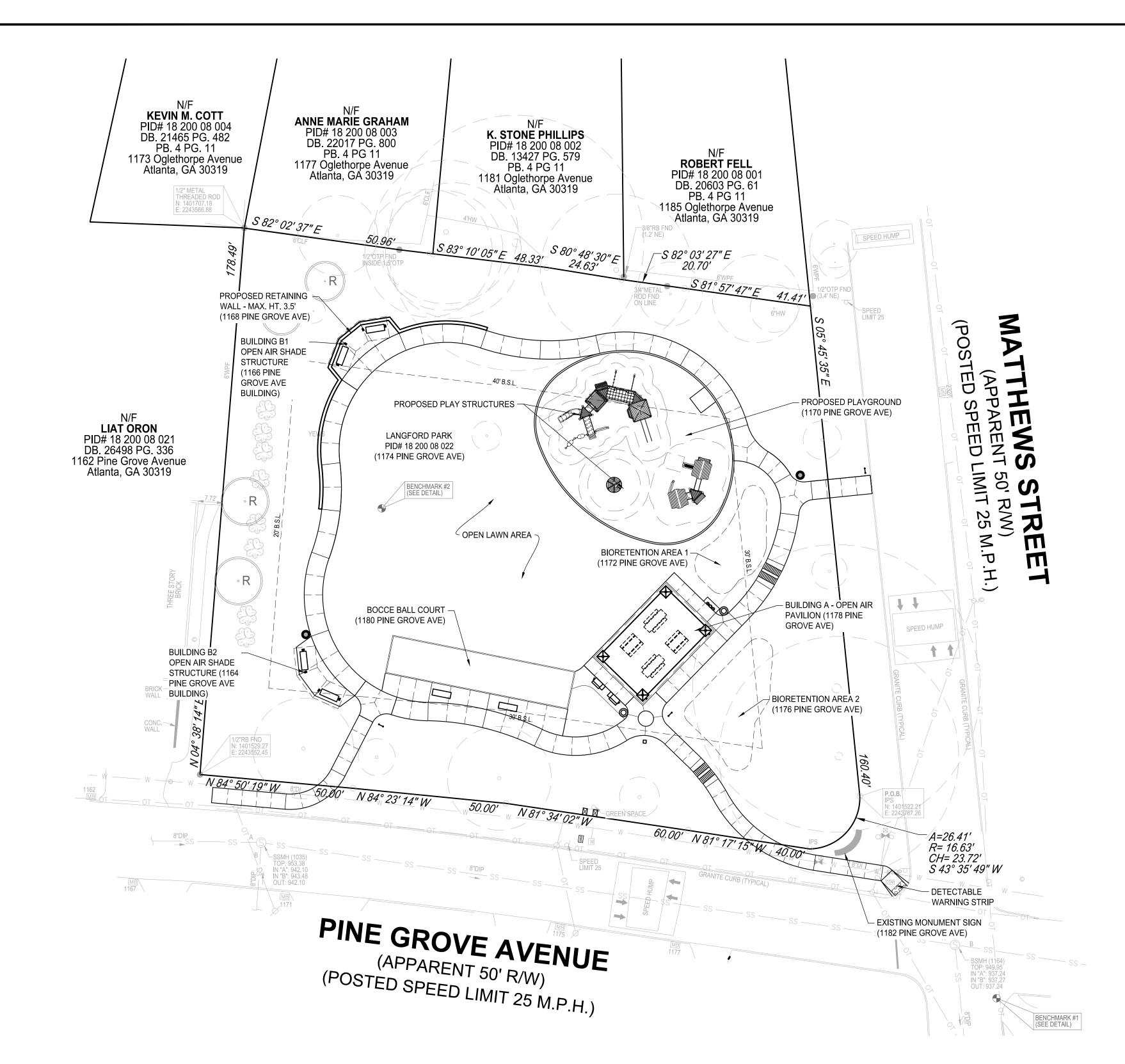
PROJECT NO. 20180-1 DATE 02/18/2022

DRAWN BY SCALE 1" = 20'

CHECKED BY LOSE

C0.02A



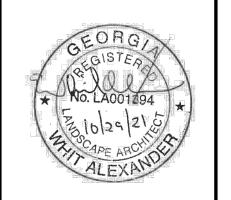


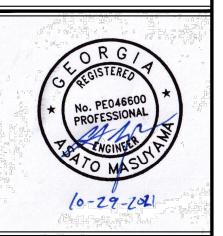
NOTE: NO CHANGES TO EXISTING PROPERTY LIMITS ARE ANTICIPATED WITH THIS PROJECT.

STRUCTURE	ADDRESS
PARK	1174 PINE GROVE AVE
BUILDING B2 OPEN AIR SHADE STRUCTURE	1164 PINE GROVE AVE BUILDING
BUILDING B1 OPEN AIR SHADE STRUCTURE	1166 PINE GROVE AVE
RETAINING WALL	1168 PINE GROVE AVE
PLAYGROUND	1170 PINE GROVE AVE
BIO RETENTION AREA 1	1172 PINE GROVE AVE
BIO RETENTION AREA 2	1176 PINE GROVE AVE
BUILDING A OPEN AIR PAVILION	1178 PINE GROVE AVE
BOCCE BALL COURT	1180 PINE GROVE AVE
MONUMENT SIGN	1182 PINE GROVE AVE



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





TS

LANGFORD PARK
DEVELOPMENT DOCUMENTS

CITY OF BROOKHAVEN KHAVEN

		BR
SUB	MITTALS	/ REVISIONS
NO.	DATE	DESCRIPTION
1	12/13/21	PERMIT REVISIONS
3	03/16/22	PERMIT REVISIONS
		·

ISSUED FOR BID

PROPOSED CONDITIONS (GIS SITE PLAN)

ROJECT NO.	DATE
20180-1	03/03/2022
RAWN BY	SCALE
MTC	1" = 20'
HECKED BY DMY	

C0.02B

SCALE: 1" = 20'



NOTES:

- . EMERGENCY VEHICLES TO ACCESS PROPERTY FROM PUBLIC RIGHT OF WAY.
- ENTIRE SITE IS WITHIN 500' RADIUS FROM HYDRANT AT SE CORNER OF PROPERTY.



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



DEPARTMENT

LANGFORD PARK
SITE DEVELOPMENT DOCUMENTS
DE BROOKHAVEN PARKS AND RECREATION DEPART

SUBMITTALS / REVISIONS

NO. DATE DESCRIPTION

I I ISSUED FOR BID

SHEET TITLE

SCALE: 1" = 20'

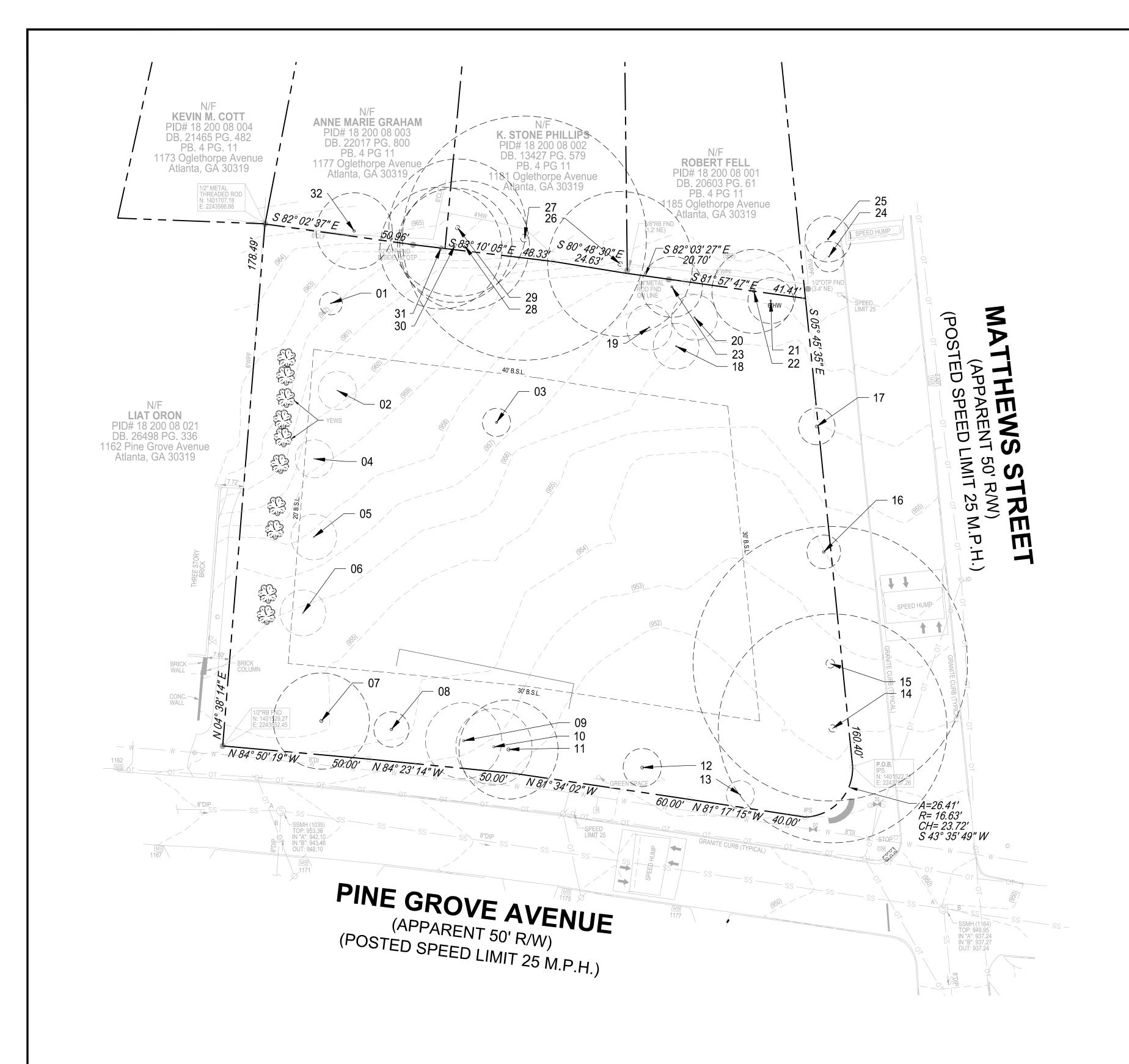
FIRE ACCESSIBILITY PLAN

PROJECT NO. 20180-1 03/03/2022

DRAWN BY SCALE 1" = 20'

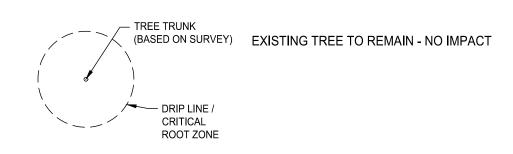
CHECKED BY DMY

C0.03



EXISTING TREE INFORMATION WAS PROVIDED ON THE SURVEY, PREPARED BY TERRAMARK LAND SURVEYING INC., (NO. TM 20-221; DATE: 11-17-2020). REVISIONS TO LIST OF EXISTING TREES BASED ON FIELD VISIT.

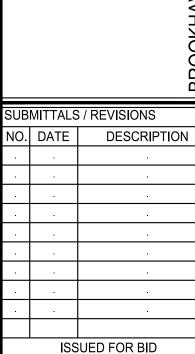
LEGEND:



N	O. SPECIES	DBH (INCHES)	NOTES
1	KOUSA DOGWOOD	4.0	
2	KOUSA DOGWOOD	5.0	
3	TRIDENT MAPLE	8.6	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
4	KOUSA DOGWOOD	5.0	
5	KOUSA DOGWOOD	6.0	
6	KOUSA DOGWOOD	6.0	
7	DOGWOOD	12.6	SPECIMEN
8	OAK	11.0	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
9	DOGWOOD	10.0	MULTI-STEM, DECLINING HEALTH
10) DOGWOOD	10.0	MULTI-STEM, DECLINING HEALTH
11	DOGWOOD	13.0	MULTI-STEM, SPECIMEN
12	2 OAK	12.0	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
13	B OAK	3.7	
14	OAK	30.0	SPECIMEN
15	5 OAK	36.0	SPECIMEN
16	DOGWOOD	10.5	SPECIMEN, RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
17	OAK	11.5	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
18	B CEDAR	6.0	
19	O CEDAR	6.0	
20) CEDAR	6.0	
21	I AMERICAN HOLLY	6.0	
22	2 WAX MYRTLE	11.0	MULTI-STEM
23	B DOGWOOD	8.0	DOGWOOD

BOUNDARY TREES

NO.	SPECIES	DBH (INCHES)	NOTES
24	CEDAR	4.0	
25	CEDAR	6.0	
26	SWEETGUM	19.0	MULTI-STEM
27	OAK	32.0	SPECIMEN
28	HICKORY	17.0	
29	HARDWOOD	18.0	
30	HICKORY	15.0	
31	HICKORY	16.0	
32	HICKORY	10.0	

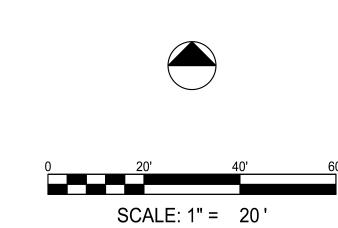


ISSUED FOR BID

EXISTING TREE SURVEY

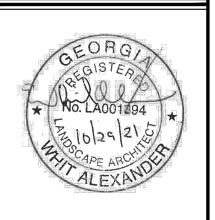
PROJECT NO.	DATE
20180-1	03/03/2022
RAWN BY	SCALE
MTC	1" = 20'
CHECKED BY DMY	

C0.10



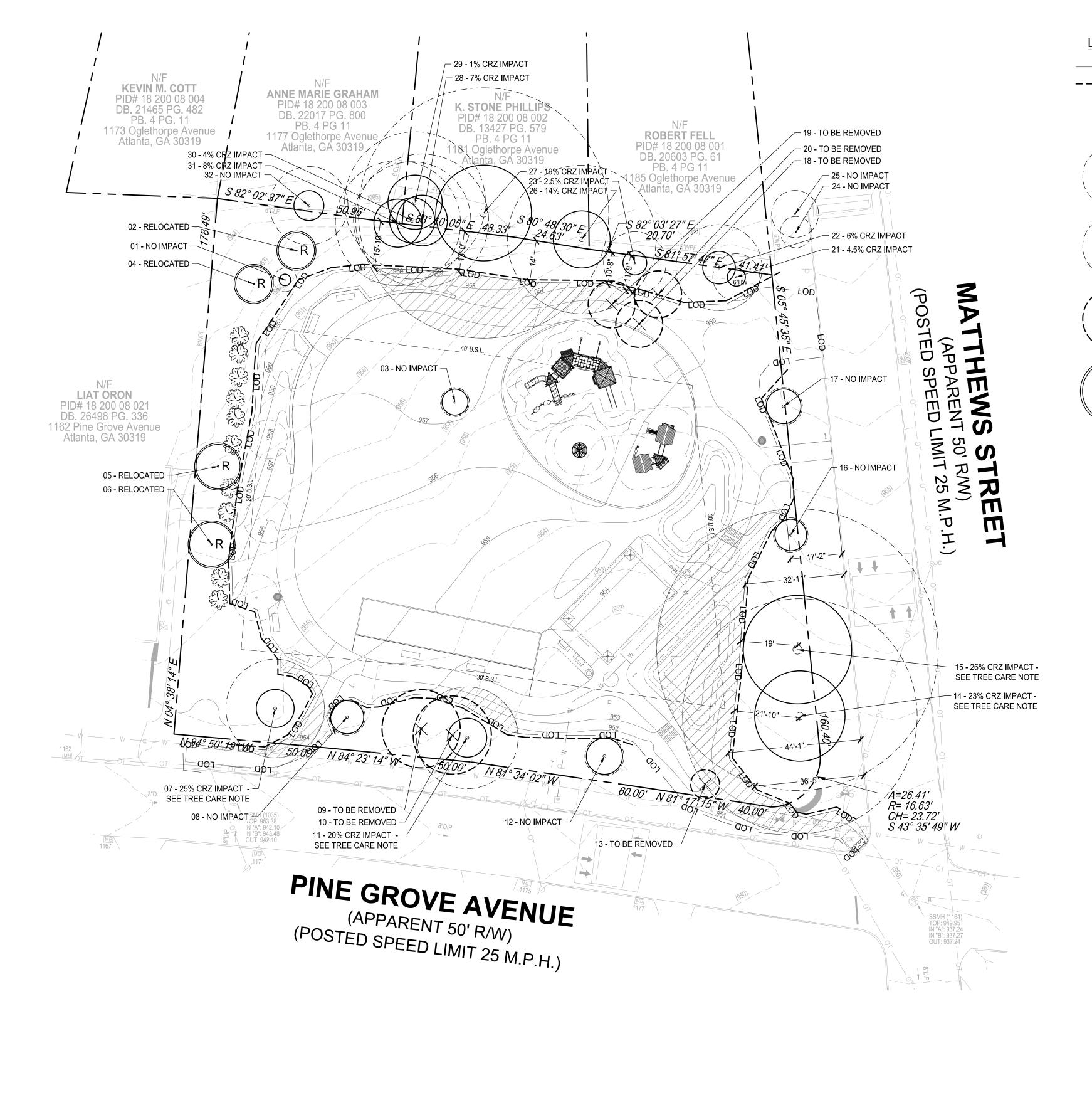


THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE ARCHITECT. REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITED, AND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



LANGFORD PARK
DEVELOPMENT DOCUMENTS

CITY OF BROOKH



LEGEND:

—— LOD ——

LIMITS OF CONSTRUCTION/ DISTURBANCE

TREE PROTECTION FENCE

TREE TRUNK
(BASED ON SURVEY)

DRIP LINE /
CRITICAL
ROOT ZONE

STRUCTURAL
ROOT PLATE

EXISTING TREE TO REMAIN - NO IMPACT

EXISTING TREE TO REMAIN - CRZ IMPACT

ZONE OF CRZ IMPACT

EXISTING TREE TO BE REMOVED

RELOCATED EXISTING TREE

EXISTING TREE INFORMATION WAS PROVIDED ON THE SURVEY, PREPARED BY TERRAMARK LAND SURVEYING INC., (NO. TM 20-221; DATE: 11-17-2020). REVISIONS TO LIST OF EXISTING TREES BASED ON FIELD VISIT.

TOTAL DISTURBED AREA = 0.60 ACRES

(ALL PROPERTIES WITHIN THE CITY SHALL MAINTAIN OR ACHIEVE A MINIMUM TREE DENSITY OF 130 DBH INCHES PER ACRE.)

0.60 ACRES X 130 DBH (INCHES) = 78

TREES TO REMAIN

NO.	SPECIES	DBH (INCHES)	NOTES
1	KOUSA DOGWOOD	4.0	
2	KOUSA DOGWOOD	5.0	
3	TRIDENT MAPLE	8.6	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
4	KOUSA DOGWOOD	5.0	
5	KOUSA DOGWOOD	6.0	
6	KOUSA DOGWOOD	6.0	
7	DOGWOOD	12.6	SPECIMEN
8	OAK	11.0	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
11	DOGWOOD	13.0	MULTI-STEM, SPECIMEN
12	OAK	12.0	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
14	OAK	30.0	SPECIMEN
15	OAK	36.0	SPECIMEN
16	DOGWOOD	10.5	SPECIMEN, RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
17	OAK	11.5	RECENT TRANSPLANT, CRZ EQUAL TO SRP + 1 FOOT
21	AMERICAN HOLLY	6.0	
22	WAX MYRTLE	11.0	MULTI-STEM

TOTAL: 196.2 DBH (INCHES)

23 DOGWOOD

NON-SPECIMEN TREES TO BE REMOVED

8.0 DOGWOOD

NO.	SPECIES	DBH (INCHES)	NOTES
13	OAK	3.7	
18	CEDAR	6.0	
19	CEDAR	6.0	
20	CEDAR	6.0	
TOTA	L: 21.7 DBH (INCHES)		

TREES TO BE REMOVED (DECLINING HEALTH)

NO.	SPECIES	DBH (INCHES)	NOTES
9	DOGWOOD	10.0	MULTI-STEM, DECLINING HEALTH
10	DOGWOOD	10.0	MULTI-STEM, DECLINING HEALTH

TOTAL: 0 DBH (INCHES) TOTAL RECOMPENSE REQUIRED

NOTE: SPECIMEN-SIZED TREES IN DECLINING HEALTH THAT ARE TO BE REMOVED REQUIRE NO RECOMPENSE.

NOTES:

 EXISTING SITE EXCEEDS REQUIRED TREE DENSITY AFTER EXISTING TREE REMOVAL.
 REFER TO SHEET C0.01 FOR CITY OF BROOKHAVEN TREE

PROTECTION NOTES.

3. REFER TO L1.00 LANDSCAPE PLAN FOR PROPOSED TREE LOCATIONS AND TREE PROTECTION/ REPLACEMENT

CALCULATIONS.

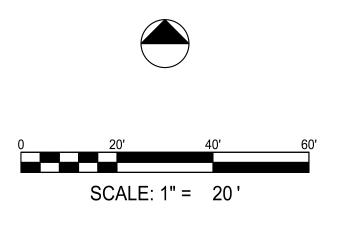
TREE CARE NOTE:
TREES IDENTIFIED TO INCLUDE:

- PRE/POST CONSTRUCTION ROOT AND SOIL TREATMENTS
- PREVENTATIVE WOOD BORING INSECT TRUNK WASHES

- PGR IF APPLICABLE

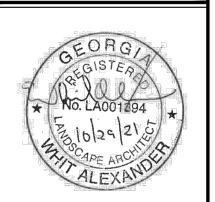
TO BE COORDINATED AND SUPERVISED BY CITY ARBORIST, BUT CONTRACTED AS PART OF THE PROJECT SCOPE







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.



LANGFORD PARK
SITE DEVELOPMENT DOCUMENTS
DE BROOKHAVEN PARKS AND RECREATION DEPARTME

SUBMITTALS / REVISIONS

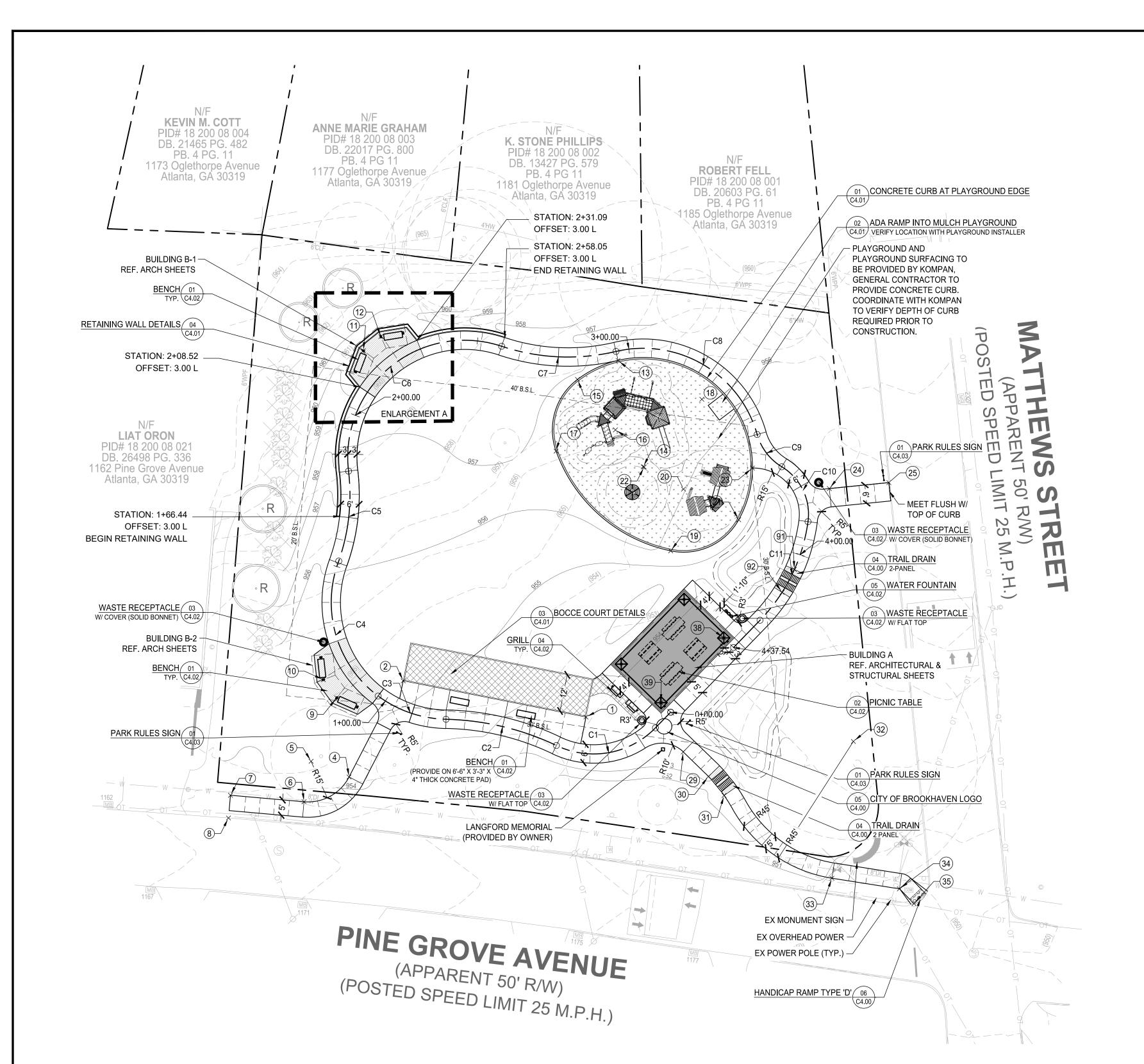
ISSUED FOR BID

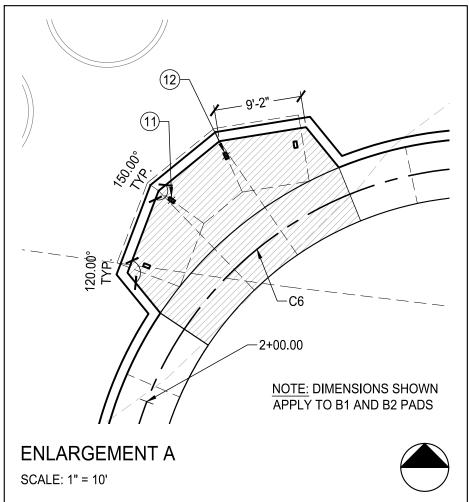
SHEET TITLE

TREE PROTECTION PLAN

PROJECT NO. | DATE | 03/03/2022 |
DRAWN BY | SCALE | 1" = 20' |
CHECKED BY | DMY | SHEET NO.

C0.20





Line Table: Alignments					
Line #	Length	Direction	Start Point	End Point	
L1	7.097	S44° 10' 28.64"W	(2243699.7323,1401552.0654)	(2243694.7870,1401546.9756)	
L2	12.339	S44° 10' 28.64"W	(2243728.7714,1401581.9534)	(2243720.1732,1401573.1038)	

	Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point	
C1	28.000	34.933	S79° 54' 57.35"W	(2243694.7870,1401546.9756)	(2243662.5813,1401541.2481)	
C2	88.255	37.153	N76° 39' 03.91"W	(2243662.5813,1401541.2481)	(2243626.6988,1401549.7627)	
C3	38.518	23.696	N71° 05' 12.60"W	(2243626.6988,1401549.7627)	(2243604.6336,1401557.3229)	
C4	38.018	49.016	N16° 16' 09.80"W	(2243604.6336,1401557.3229)	(2243591.8330,1401601.1845)	
C5	65.000	29.669	N06° 13' 19.16"E	(2243591.8330,1401601.1845)	(2243595.0207,1401630.4232)	
C6	38.000	76.486	N50° 48' 28.60"E	(2243595.0207,1401630.4232)	(2243644.7879,1401671.0008)	
C7	68.000	37.683	S87° 24' 19.27"E	(2243644.7879,1401671.0008)	(2243681.9520,1401669.3166)	
C8	38.500	58.785	S59° 32' 19.46"E	(2243681.9520,1401669.3166)	(2243727.8423,1401642.3270)	
C9	18.000	13.522	S37° 19' 04.98"E	(2243727.8423,1401642.3270)	(2243735.8485,1401631.8241)	
C10	18.000	20.917	S25° 32' 58.11"E	(2243735.8485,1401631.8241)	(2243744.3706,1401613.9968)	
C11	57.000	36.246	S25° 57' 27.24"W	(2243744.3706,1401613.9968)	(2243728.7714,1401581.9534)	

LAYOUT NOTES:

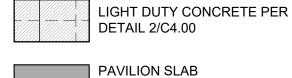
- SEE SHEET C0.01 FOR GENERAL NOTES.
 SEE ARCHITECTURAL SHEETS FOR BUILDING.
- 3. INSTALL JOINTS WHERE SHOWN TO ALIGN TO WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALL, CURBS, ETC.). ALL JOINTS TO BE STRAIGHT AND TRUE
- BE STRAIGHT AND TRUE.

 4. LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.

 5. ALL CURBS ARE DIMENSIONED TO THE FACE OF CURB.
- 6. 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.
- 7. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). LATEST EDITION.
- 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.



PERVIOUS CONCRETE PER DETAIL 1/C4.00





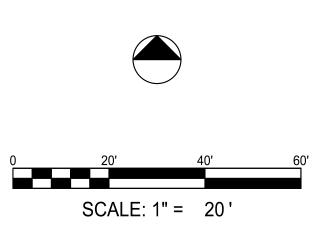




COORDINATE POINT:
SEE SHEET C1.20
FOR COORDINATE LIST.
(COOD. POINTS TO BE
PROVIDED TO SUCCESSFUL
BIDDER)

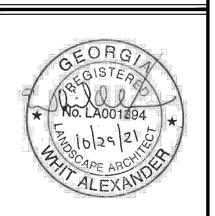
FURNISHING LEGEND						
SYMBOL	DESCRIPTION	COUNT				
	BENCH	8				
	GRILL	2				
909	WATER FOUNTAIN	1				
	PICNIC TABLE	2 STND / 2 ADA				
0	TRASH RECEPTACLE (OPEN TOP)	2				
•	TRASH RECEPTACLE (COVERED TOP)	2				
SEE SHEET C4.02 FOR FURNISHING DETAILS AND SPECIFICATIONS						







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.



) A

SITE DEVELOPMENT DOCUMENTS

SERPOCKHAVEN PARKS AND RECREATION DEPARTM

ALS / REVISIONS

E DESCRIPTION

SUB	MITTALS	S / REVISIONS
NO.	DATE	DESCRIPTION
•	•	
٠	٠	
•	•	,
٠	٠	
٠	٠	
		,
•		

HEET TITLE

LAYOUT PLAN

ISSUED FOR BID

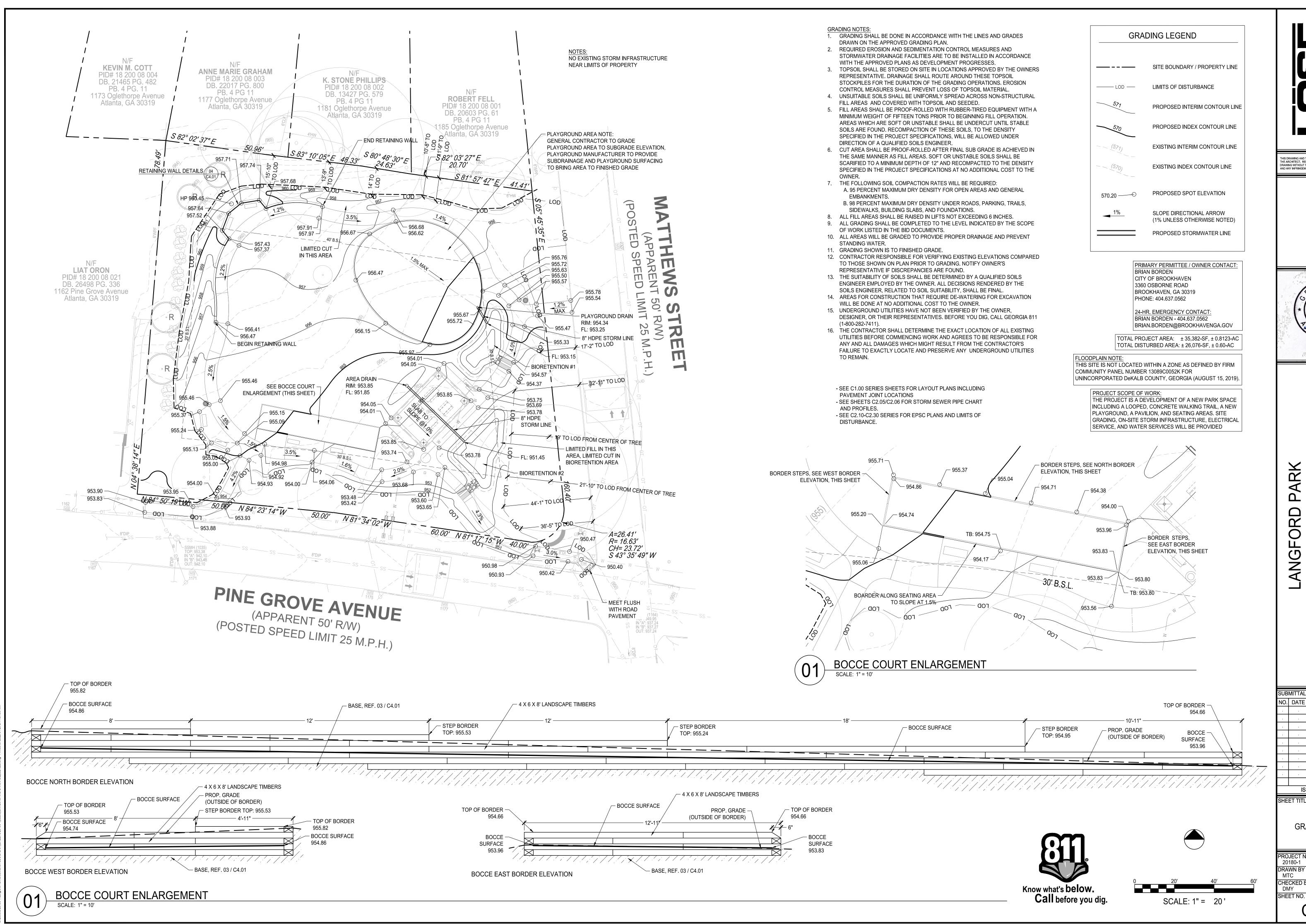
PROJECT NO. 20180-1 DATE 03/03/2022

DRAWN BY SCALE 1" = 20'

CHECKED BY DMY

SHEET NO.

C1.00



DESIGN SPACES FOR LIFE.

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.

O R G

No. PEO46600

PROFESSIONAL

PROFESSIONAL

AGINEE

ACINEE

ACINE

S L

LANGFORD PARK

ITE DEVELOPMENT DOCUMENTS

UBMITTALS / REVISIONS
IO. DATE DESCRIPTION

DATE DESCRIPTION

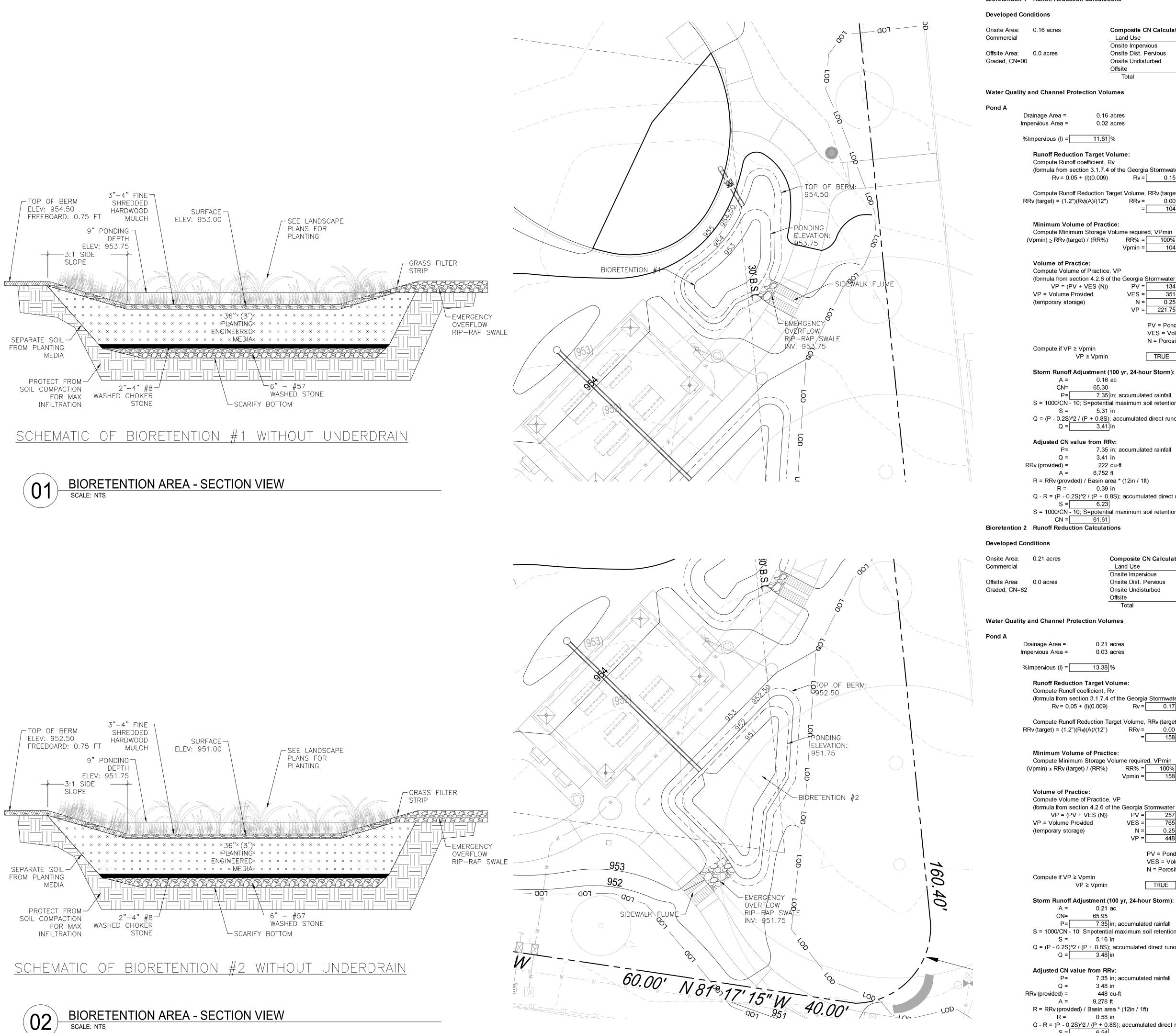
ISSUED FOR BID

GRADING PLAN

PROJECT NO. 20180-1 03/03/2022

DRAWN BY SCALE 1" = 20'

CHECKED BY DMY



BIORETENTION AREA - SECTION VIEW

Bioretention 1 Runoff Reduction Calculations

Onsite Area: 0.16 acres **Composite CN Calculations** Land Use % Total CN Comp. CN Onsite Impervious 11.6% 0.14 88.4% 61 53.92 Offsite Area: 0.0 acres Onsite Dist. Pervious Onsite Undisturbed 0.00 0.0% 55 0.00 0.00 0.0% 62 0.00

Water Quality and Channel Protection Volumes

Drainage Area = 0.16 acres 0.02 acres Impervious Area =

Runoff Reduction Target Volume: Compute Runoff coefficient, Rv

(formula from section 3.1.7.4 of the Georgia Stormwater Management Manual 2016 Edition Volume 2) Rv = 0.05 + (I)(0.009) Rv = 0.15

Compute Runoff Reduction Target Volume, RRv (target) RRv (target) = (1.2")(Rv)(A)/(12") RRv = _____ 0.00 ac-ft

104 cu-ft Minimum Volume of Practice: Compute Minimum Storage Volume required, VPmin

Volume of Practice:

Compute Volume of Practice, VP (formula from section 4.2.6 of the Georgia Stormwater Management Manual 2016 Edition Volume 2) 134 cu-ft VP = (PV + VES (N))VP = Volume Provided (3.0 ft) (temporary storage)

> PV = Ponding Volume VES = Volume of Engineered Soils N = Porosity

Compute if VP ≥ Vpmin TRUE VP ≥ Vpmin

Storm Runoff Adjustment (100 yr, 24-hour Storm):

A = 0.16 ac CN= 65.30 7.35 in; accumulated rainfall S = 1000/CN - 10; S=potential maximum soil retention (in.)

S = 5.31 in $Q = (P - 0.2S)^2 / (P + 0.8S)$; accumulated direct runoff (in.)

Adjusted CN value from RRv:

7.35 in; accumulated rainfall Q = 3.41 in

RRv (provided) = 222 cu-ft A = 6,752 ft R = RRv (provided) / Basin area * (12in / 1ft)

R = 0.39 in Q - R = $(P - 0.2S)^2 / (P + 0.8S)$; accumulated direct runoff (in.)

S = 6.23

S = 1000/CN - 10; S=potential maximum soil retention (in.) CN = 61.61

Onsite Area: 0.21 acres **Composite CN Calculations**

% Total CN Comp. CN Onsite Impervious Onsite Dist. Pervious 0.18 86.6% 61 52.84 55 0.00 Onsite Undisturbed 0.00 0.0% 62 0.00 0.0% 0.00 65.95

Water Quality and Channel Protection Volumes

Drainage Area = Impervious Area = 0.03 acres

%Impervious (I) =

Runoff Reduction Target Volume:

(formula from section 3.1.7.4 of the Georgia Stormwater Management Manual 2016 Edition Volume 2) Rv = 0.05 + (I)(0.009) Rv = 0.17

Compute Runoff Reduction Target Volume, RRv (target) RRv (target) = (1.2")(Rv)(A)/(12") RRv = 0.00 ac-ft

158 cu-ft Minimum Volume of Practice: Compute Minimum Storage Volume required, VPmin

(Vpmin) ≥ RRv (target) / (RR%) RR% = 100%

Volume of Practice: Compute Volume of Practice, VP (formula from section 4.2.6 of the Georgia Stormwater Management Manual 2016 Edition Volume 2) PV = 257 cu-ft VP = (PV + VES(N))

(temporary storage) PV = Ponding Volume

(3.0 ft)

VES = Volume of Engineered Soils N = Porosity Compute if VP ≥ Vpmin

Storm Runoff Adjustment (100 yr, 24-hour Storm):

A = 0.21 ac 7.35 in; accumulated rainfall S = 1000/CN - 10; S=potential maximum soil retention (in.)

 $Q = (P - 0.2S)^2 / (P + 0.8S)$; accumulated direct runoff (in.)

Adjusted CN value from RRv:

7.35 in; accumulated rainfall RRv (provided) = 448 cu-ft A = 9,278 ft R = RRv (provided) / Basin area * (12in / 1ft)

R = 0.58 in Q - R = $(P - 0.2S)^2 / (P + 0.8S)$; accumulated direct runoff (in.) S = 6.54 S = 1000/CN - 10; S=potential maximum soil retention (in.)



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.



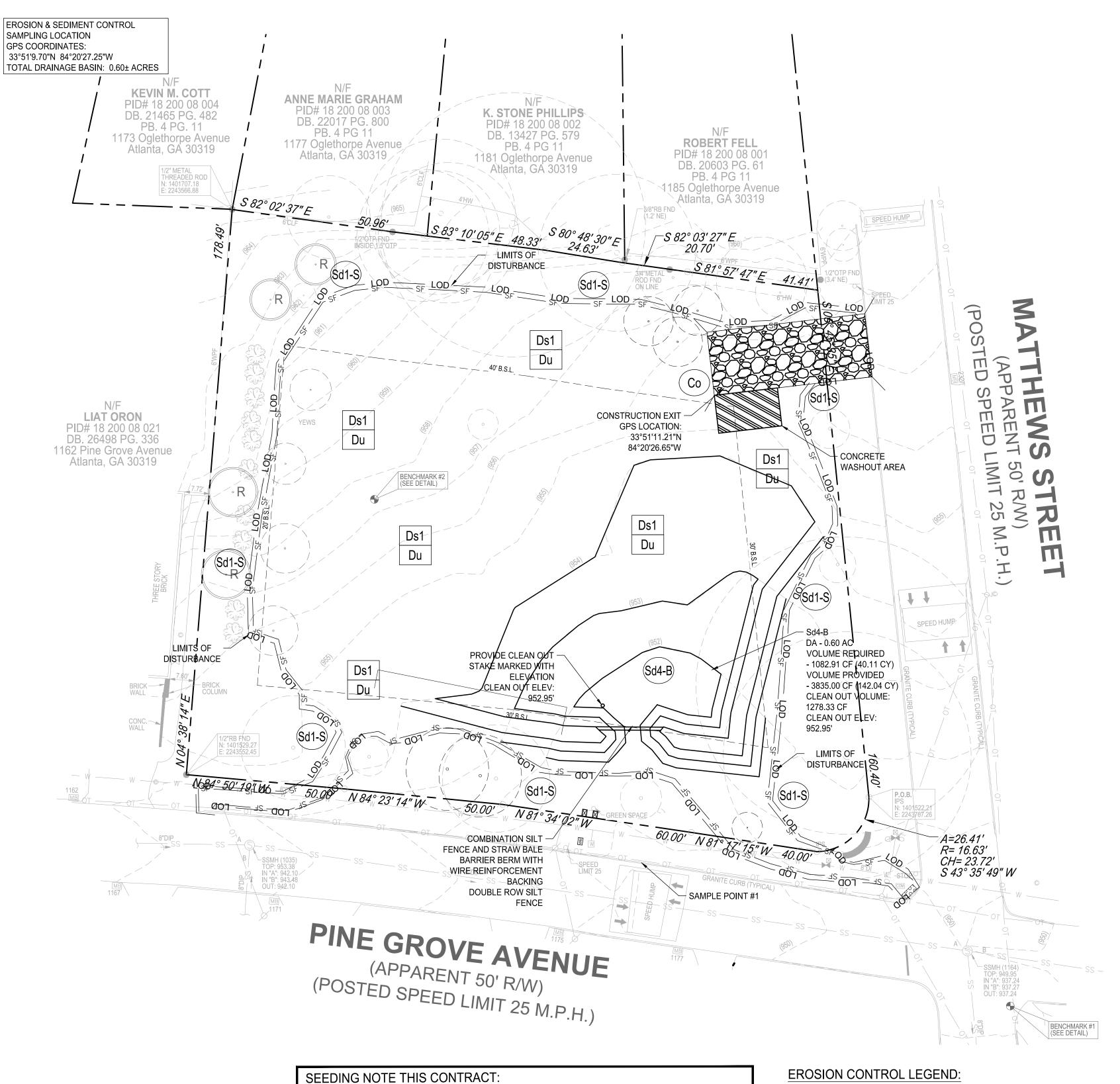
PARK DOCUM LANGFORD DEVELOPMENT I

SUBMITTALS / REVISIONS NO. DATE DESCRIPTION

ISSUED FOR BID

DRAINAGE DETAILS

20180-1 03/03/2022 DRAWN BY MTC NTS CHECKED BY DMY



NOTE: IF AREAS ARE NOT TO BE PLANTED WITH OTHER MATERIAL (SEE LANDSCAPE PLANS) SEED TO BE BERMUDA GRASS @ 75 LBS/AC. IF SEEDING OCCURS OCT. - FEB., USE TEMPORARY SEEDING OF ANNUAL RYEGRASS @ 49 LBS/AC, TO BE FOLLOWED WITH BERMUDA MAR. - SEPT.. APPLY STRAW MULCH, LIME, & FERTILIZER AS FOLLOWS.

SEED ALL DISTURBED AREAS (BOTH THOSE FROM PREVIOUS GRADING OPERATIONS, AND DISTURBANCES DURING THIS CONTRACT) NOT RECEIVING SPRIGGING OR SODDING (SEE LANDSCAPE PLANS) AS A PART OF THIS CONTRACT. THESE AREAS INCLUDE OPEN AREAS, DETENTION BASINS, AREAS OF FUTURE PAVING, PARKING LOTS, & ROADS. SEED SPECIES DEPEND UPON DATE OF COMPLETION.

DESIGNER GSWCC LEVEL II

WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS

Level II Certified Design Professional

ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN

DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED

AGENT UNDER MY DIRECT SUPERVISION.

GSWCC

CERTIFICATION NUMBER . ISSUED: 10/01/2021

UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT THE APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST. UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE (1350 KG/HA). IF USING A HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE (HECTARE) AS THE STANDARD FERTILIZER. EVENLY APPLY STRAW MULCH IMMEDIATELY AFTER SEEDING BETWEEN 3/4 IN AND 1-1/2 IN (20 MM and 40 MM) DEEP, ACCORDING TO THE TEXTURE AND MOISTURE CONTENT OF THE MULCH MATERIAL. MULCH SHALL ALLOW SUNLIGHT TO PENETRATE AND AIR TO CIRCULATE AS WELL AS SHADE THE GROUND, REDUCE EROSION, AND CONSERVE SOIL MOISTURE.

— LOD — LIMITS OF CONSTRUCTION/ DISTURBANCE

SAMPLE POINT #1 SAMPLE POINT NUMBER

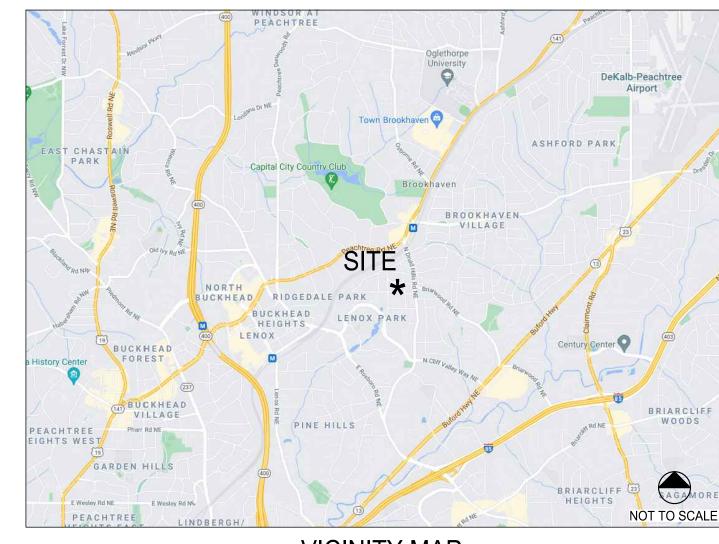
UNIFORM CODING SYSTEM FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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	01 C2.30
	Sd2-F	FILTER FABRIC WITH SUPPORTING FRAME	03 C2.30
— SF ——	Sd1-S	SEDIMENT BARRIER (SENSITIVE AREA)	02 C2.30
	Sd4-B	TEMPORARY SEDIMENT TRAP - COMBINATION OUTLET	06 C2.30
	St	STORMDRAIN OUTLET PROTECTION	04 C2.30
	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	01 C2.31
	Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	02 C2.31
	Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)	01 C2.32
	Du	DUST CONTROL ON DISTURBED AREAS	08 C2.30
			
	ı	I	1



VICINITY MAP

IMPACTED STREAM NOTE

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

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

FLOODPLAIN NOTE:

THIS SITE IS NOT LOCATED WITHIN A ZONE AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C0052K FOR UNINCORPORATED DeKALB COUNTY, GEORGIA (8/15/2019).

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.

CONSTRUCTION ADDRESS: LANGFORD PARK 1174 PINE GROVE AVENUE ATLANTA, GA 30319

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.

CALLOUT(S)

- 2. 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.
- 3. 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
- 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.
- 9. 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.
- 12. 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.
- 13. 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.

EXISTING USE: MUNICIPAL PARK PROPOSED USE: MUNICIPAL PARK TOTAL PROJECT AREA: ± 35,382-SF, ± 0.8123-AC TOTAL DISTURBED AREA: ± 26,076-SF, ± 0.60-AC

NRCS SOILS TYPE LEGEND

CECIL-URBAN LAND COMPLEX, 2 TO 10 % SLOPES

NATURE OF CONSTRUCTION ACTIVITY CONSTRUCTION OF PARK ALONG MATTHEWS STREET AND PINE GROVE AVENUE FOR THE CITY OF BROOKHAVEN.

- THERE ARE NO ON-SITE WETLANDS WITHIN 200 FEET OF THE
- PROJECT SITE
- STATE WATERS ARE NOT ONSITE OR WITHIN 200 FEET OF THE SITE
- AN UNNAMED TRIBUTARY OF NORTH FORK PEACHTREE CREEK IS THE RECEIVING WATERS FOR THIS SITE
- THE SITE IS LOCATED MORE THAN 1-MILE FROM AN IMPAIRED STREAM SEGMENT

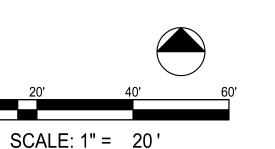
PRIMARY PERMITTEE / OWNER CONTACT BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319

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

PHONE: 404.637.0562



Know what's below. Call before you dig.



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

10-29-2021

X

PA DOC

3FORD OPMENT

Ŋ

A

UBMITTALS / REVISIONS O. DATE DESCRIPTION PERMIT REVISIONS

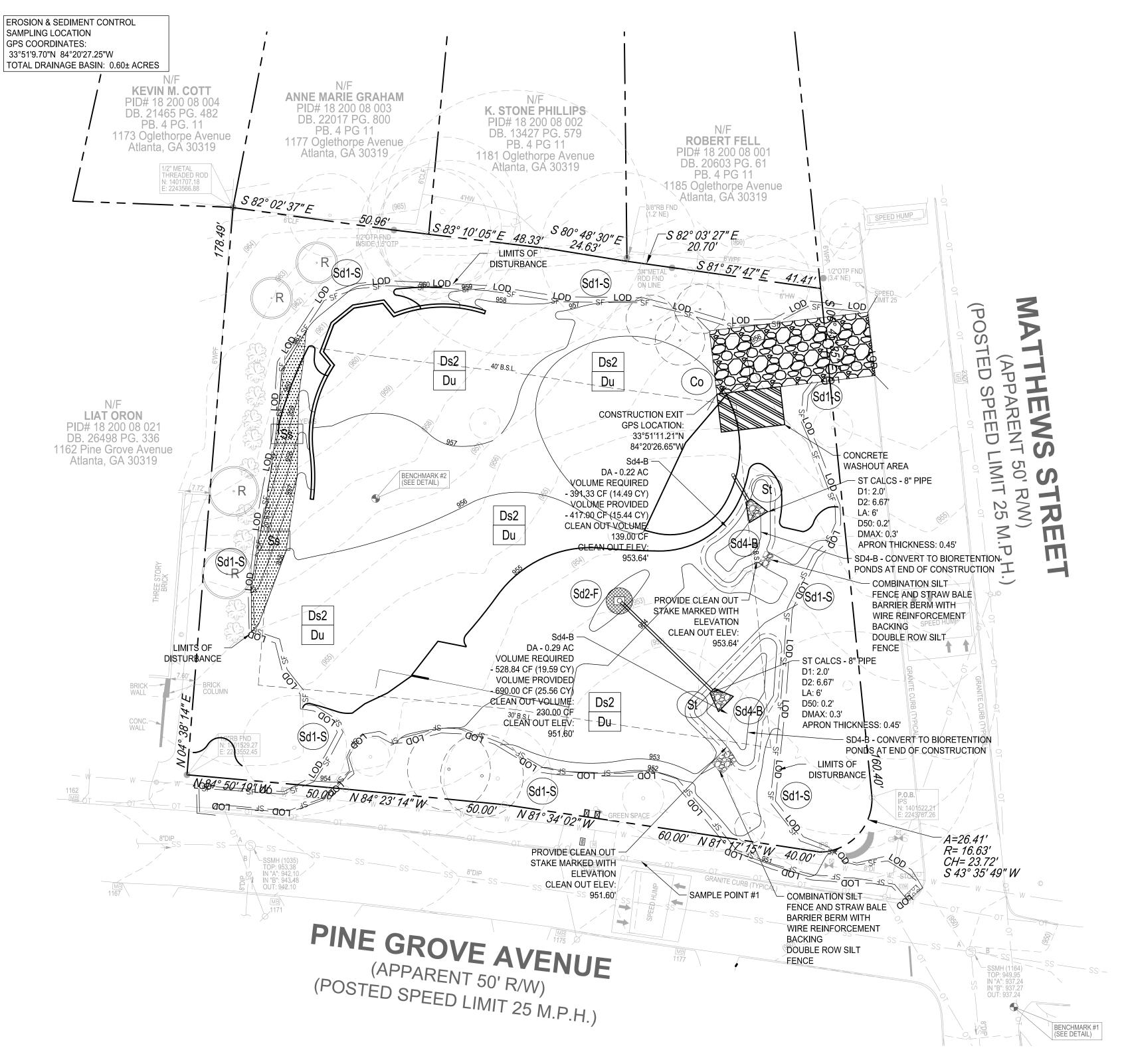
ISSUED FOR BID

HEET TITLE

INITIAL ESPC PLAN

ROJECT NO. 20180-1 03/03/2022 RAWN BY MTC 1" = 20' CHECKED BY DMY

SHEET NO.



SEEDING NOTE THIS CONTRACT:

DESIGNER GSWCC LEVEL II

WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS

Level II Certified Design Professional

ASATO MASUYAMA. CERTIFIED DESIGN PROFESSIONAL

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN

DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED

AGENT UNDER MY DIRECT SUPERVISION.

GSWCC

CERTIFICATION NUMBER .

ISSUED: 10/01/2021

NOTE: IF AREAS ARE NOT TO BE PLANTED WITH OTHER MATERIAL (SEE LANDSCAPE PLANS) SEED TO BE BERMUDA GRASS @ 75 LBS/AC. IF SEEDING OCCURS OCT. - FEB., USE TEMPORARY SEEDING OF ANNUAL RYEGRASS @ 49 LBS/AC, TO BE FOLLOWED WITH BERMUDA MAR. - SEPT.. APPLY STRAW MULCH, LIME, & FERTILIZER AS FOLLOWS.

SEED ALL DISTURBED AREAS (BOTH THOSE FROM PREVIOUS GRADING OPERATIONS, AND DISTURBANCES DURING THIS CONTRACT) NOT RECEIVING SPRIGGING OR SODDING (SEE LANDSCAPE PLANS) AS A PART OF THIS CONTRACT. THESE AREAS INCLUDE OPEN AREAS, DETENTION BASINS, AREAS OF FUTURE PAVING, PARKING LOTS, & ROADS. SEED SPECIES DEPEND UPON DATE OF COMPLETION.

UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT THE APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST. UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE (1350 KG/HA). IF USING A HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE (HECTARE) AS THE STANDARD FERTILIZER. EVENLY APPLY STRAW MULCH IMMEDIATELY AFTER SEEDING BETWEEN 3/4 IN AND 1-1/2 IN (20 MM and 40 MM) DEEP, ACCORDING TO THE TEXTURE AND MOISTURE CONTENT OF THE MULCH MATERIAL. MULCH SHALL ALLOW SUNLIGHT TO PENETRATE AND AIR TO CIRCULATE AS WELL AS SHADE THE GROUND, REDUCE EROSION, AND CONSERVE SOIL MOISTURE.

EROSION CONTROL LEGEND:

— LOD — LIMITS OF CONSTRUCTION/ DISTURBANCE

- SAMPLE POINT #1 SAMPLE POINT NUMBER

UNIFORM CODING SYSTEM FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

NOTE:

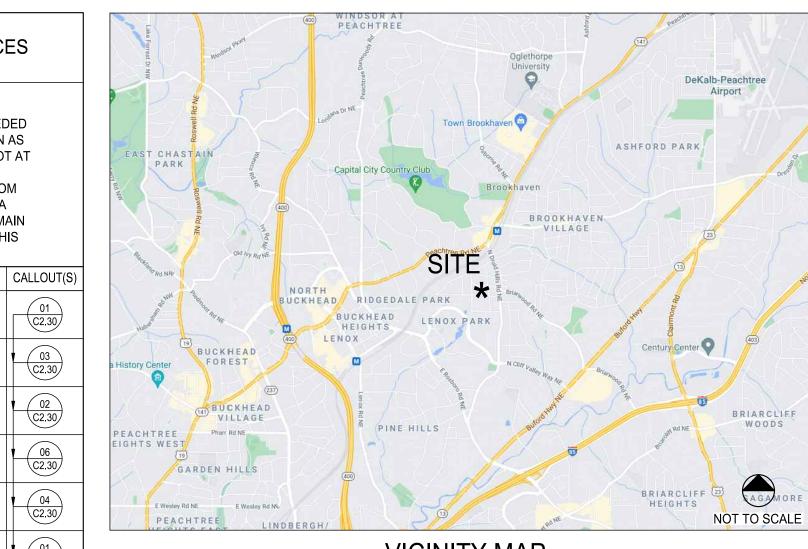
MAP SYMBOL

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

CODE PRACTICE

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.

	Co	CONSTRUCTION EXIT	01 C2.30
	Sd2-F	FILTER FABRIC WITH SUPPORTING FRAME	V 03 C2.30
— SF ——	Sd1-S	SEDIMENT BARRIER (SENSITIVE AREA)	©2 C2.30
	Sd4-B	TEMPORARY SEDIMENT TRAP - COMBINATION OUTLET	V 06 C2.30
	St	STORMDRAIN OUTLET PROTECTION	V 04 C2.30
	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	01 C2.31
	Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	02 C2.31
	Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)	01 C2.32
	Du	DUST CONTROL ON DISTURBED AREAS	V 08 C2.30
	Ss	SLOPE STABILIZATION	07 C2.30
			\
	1	•	



VICINITY MAP

IMPACTED STREAM NOTE

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

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

FLOODPLAIN NOTE:

THIS SITE IS NOT LOCATED WITHIN A ZONE AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C0052K FOR UNINCORPORATED DeKALB COUNTY, GEORGIA (8/15/2019).

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.

CONSTRUCTION ADDRESS: LANGFORD PARK 1174 PINE GROVE AVENUE ATLANTA, GA 30319

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.
- 2. 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.
- 3. 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
- 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.
- 9. 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.
- 12. 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.
- 13. 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.

EXISTING USE: MUNICIPAL PARK PROPOSED USE: MUNICIPAL PARK TOTAL PROJECT AREA: ± 35,382-SF, ± 0.8123-AC TOTAL DISTURBED AREA: ± 26,076-SF, ± 0.60-AC

NRCS SOILS TYPE LEGEND CECIL-URBAN LAND COMPLEX, 2 TO 10 % SLOPES

NATURE OF CONSTRUCTION ACTIVITY

CONSTRUCTION OF PARK ALONG MATTHEWS STREET AND PINE GROVE AVENUE FOR THE CITY OF BROOKHAVEN.

THERE ARE NO ON-SITE WETLANDS OR WETLANDS WITHIN

- 200 FEET OF THE PROJECT SITE STATE WATERS ARE NOT ONSITE OR WITHIN 200 FEET OF THE SITE
- AN UNNAMED TRIBUTARY OF NORTH FORK PEACHTREE CREEK IS THE RECEIVING WATERS FOR THIS SITE
- THE SITE IS LOCATED MORE THAN 1-MILE FROM AN IMPAIRED STREAM SEGMENT

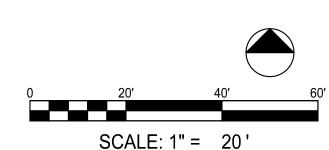
PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN

3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

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



Know what's below. Call before you dig.



DRAWING AND THE DESIGN SHOWN IS THE PROPERT RAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITE ND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



X

PA DOC

3FORD OPMENT

Ŋ

A

JBMITTALS / REVISIONS D. DATE DESCRIPTION PERMIT REVISIONS

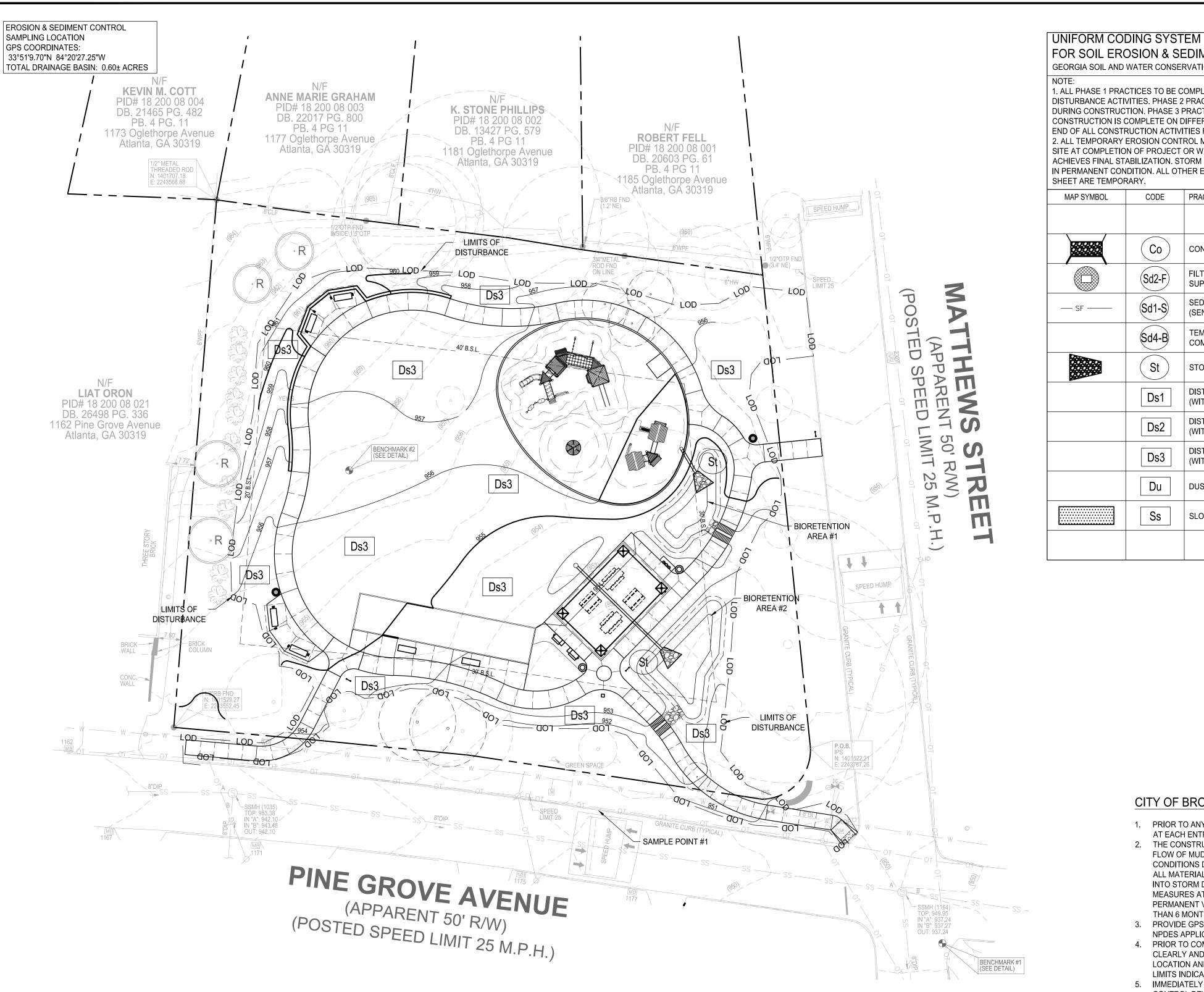
ISSUED FOR BID HEET TITLE

INTERMEDIATE ESPC PLAN

ROJECT NO. 03/03/2022 20180-1 RAWN BY MTC 1" = 20' CHECKED BY DMY

C2.11

SHEET NO.



SEEDING NOTE THIS CONTRACT:

Ds2

Ds3

DESIGNER GSWCC LEVEL II

WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS

Level II Certified Design Professional

ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN

DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED

AGENT UNDER MY DIRECT SUPERVISION.

CERTIFICATION NUMBER . ISSUED: 10/01/2021

APPLY STRAW MULCH, LIME, & FERTILIZER AS FOLLOWS.

DEPEND UPON DATE OF COMPLETION.

DETERMINED BY THE LABORATORY SOIL TEST.

NOTE: IF AREAS ARE NOT TO BE PLANTED WITH OTHER MATERIAL (SEE LANDSCAPE PLANS)

SEED ALL DISTURBED AREAS (BOTH THOSE FROM PREVIOUS GRADING OPERATIONS, AND

DISTURBANCES DURING THIS CONTRACT) NOT RECEIVING SPRIGGING OR SODDING (SEE

LANDSCAPE PLANS) AS A PART OF THIS CONTRACT. THESE AREAS INCLUDE OPEN AREAS,

DETENTION BASINS, AREAS OF FUTURE PAVING, PARKING LOTS, & ROADS. SEED SPECIES

UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT THE APPROXIMATE RATE

IT AT THE SAME RATE PER ACRE (HECTARE) AS THE STANDARD FERTILIZER.

SHADE THE GROUND, REDUCE EROSION, AND CONSERVE SOIL MOISTURE.

UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200

EVENLY APPLY STRAW MULCH IMMEDIATELY AFTER SEEDING BETWEEN 3/4 IN AND 1-1/2 IN (20

MM and 40 MM) DEEP, ACCORDING TO THE TEXTURE AND MOISTURE CONTENT OF THE MULCH

MATERIAL. MULCH SHALL ALLOW SUNLIGHT TO PENETRATE AND AIR TO CIRCULATE AS WELL AS

LBS/ACRE (1350 KG/HA). IF USING A HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY

SEED TO BE BERMUDA GRASS @ 75 LBS/AC. IF SEEDING OCCURS OCT. - FEB., USE TEMPORARY

SEEDING OF ANNUAL RYEGRASS @ 49 LBS/AC, TO BE FOLLOWED WITH BERMUDA MAR. - SEPT..

EROSION CONTROL LEGEND:

SAMPLE POINT #1 SAMPLE POINT NUMBER

— LOD — LIMITS OF CONSTRUCTION/ DISTURBANCE

PERIMETER BEST MANAGEMENT PRACTICES (B.M.P.'s):

CONTRACTOR TO INSTALL ALL PERIMETER CONTROL BMP's: TREE PROTECTION, SILT

PRIOR TO COMMENCING ANY GRADING ACTIVITY. SEE MATCHING HIGHLIGHTED AREA.

FENCE, AND THE INITIAL SEDIMENT STORAGE PONDS, AND THEIR ASSOCIATED DIVERSIONS

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

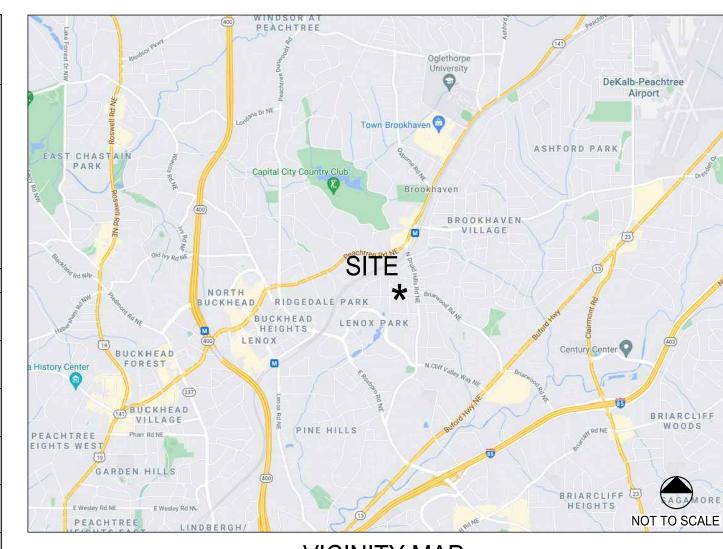
FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

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.

CODE PRACTICE

MAP SYMBOL

	Co	CONSTRUCTION EXIT	01 C2.30
	Sd2-F	FILTER FABRIC WITH SUPPORTING FRAME	03 C2.30
— SF ——	Sd1-S	SEDIMENT BARRIER (SENSITIVE AREA)	02 C2.30
	Sd4-B	TEMPORARY SEDIMENT TRAP - COMBINATION OUTLET	06 C2.30
	St	STORMDRAIN OUTLET PROTECTION	04 C2.30
	Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	01 C2.31
	Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	02 C2.31
	Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)	01 C2.32
	Du	DUST CONTROL ON DISTURBED AREAS	08 C2.30
	Ss	SLOPE STABILIZATION	07 C2.30



VICINITY MAP

IMPACTED STREAM NOTE

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

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

FLOODPLAIN NOTE:

THIS SITE IS NOT LOCATED WITHIN A ZONE AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C0052K FOR UNINCORPORATED DeKALB COUNTY, GEORGIA (8/15/2019).

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.

CONSTRUCTION ADDRESS: LANGFORD PARK 1174 PINE GROVE AVENUE ATLANTA, GA 30319

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.

CALLOUT(S)

- 2. 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.
- 3. 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
- 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.
- 9. 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.
- 12. 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.
- 13. 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.

EXISTING USE: MUNICIPAL PARK PROPOSED USE: MUNICIPAL PARK TOTAL PROJECT AREA: ± 35,382-SF, ± 0.8123-AC TOTAL DISTURBED AREA: ± 26,076-SF, ± 0.60-AC

NRCS SOILS TYPE LEGEND

CECIL-URBAN LAND COMPLEX, 2 TO 10 % SLOPES NATURE OF CONSTRUCTION ACTIVITY

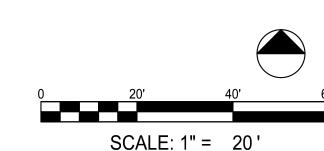
- CONSTRUCTION OF PARK ALONG MATTHEWS STREET AND PINE GROVE AVENUE FOR THE CITY OF BROOKHAVEN.
- THERE ARE NO ON-SITE WETLANDS WITHIN 200 FEET OF THE PROJECT SITE STATE WATERS ARE NOT ONSITE OR 200 FEET WITHIN THE
- SITE AN UNNAMED TRIBUTARY OF NORTH FORK PEACHTREE
- CREEK IS THE RECEIVING WATERS FOR THIS SITE
- THE SITE IS LOCATED MORE THAN 1-MILE FROM AN IMPAIRED STREAM SEGMENT

PRIMARY PERMITTEE / OWNER CONTACT: BRIAN BORDEN CITY OF BROOKHAVEN 3360 OSBORNE ROAD BROOKHAVEN, GA 30319 PHONE: 404.637.0562 24-HR. EMERGENCY CONTACT:

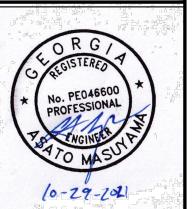
> BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV



Call before you dig.



RAWING WITHOUT THEIR WRITTEN CONSENT IS PROHIBITE ND ANY INFRINGEMENT IS SUBJECT TO LEGAL ACTION.



X PA DOC 3FORD OPMENT Ŋ A

UBMITTALS / REVISIONS

VO.	DATE	DESCRIPTION
1	12/13/21	PERMIT REVISIONS
		•
		•
	•	•
		•
•	•	·
	•	·
	٠	•
•	•	·
	ISS	UED FOR BID

FINAL ESPC PLAN

ROJECT NO. 20180-1 03/03/2022 RAWN BY MTC 1" = 20' CHECKED BY DMY

SHEET NO.

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

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

GRADING PHASE EROSION CONTROL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

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

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

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

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

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.

FINAL PHASE EROSION CONTROL NOTES

FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

EROSION CONTROL NOTES

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

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE

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.

CRITICAL WORK ZONE EROSION CONTROL NOTES:

WHERE INDICATED, HATCHED AREAS SHOWN ON THE EROSION CONTROL PLANS MAY 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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

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

DESIGN PROFESSIONAL

10/29/2021

0000083860

GA REGISTRATION #

LEVEL II CERTIFICATION EXPIRES: 10-01-2024

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)

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

WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS

DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED



ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

DESIGN SPACES FOR LIFE.

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



ENTS

<u>Р</u>

OPMENT

RD

0

GF

Ž

F BROOKHAVEN PARKS AND RECREATION DEPAR

HEET TITLE

ESPC NOTES

20180-1 03/03/2022

DRAWN BY SCALE
MTC NTS

CHECKED BY
DMY

SHEET NO.

C2 20

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 1174 PINE GROVE AVENUE, ATLANTA, GA 30319. THE ENTIRE SITE CONTAINS ±0.8123 ACRES.

DESCRIBE PROPERTY TO BE DEVELOPED: MUNICIPAL PARK

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

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

ZONING:

THIS SITE IS ZONED PR-1

SURVEY INFORMATION

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

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

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.
- 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 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 DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

CONTROLS

EROSION AND SEDIMENT CONTROLS

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

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

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

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

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

NON- STORM WATER DISCHARGES

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

OTHER CONTROLS

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

WASTE MATERIALS

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

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

HAZARDOUS WASTES

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

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

SANITARY WASTES

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

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

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

CONCRETE WASHDOWN PER DETAIL 1 ON SHEET C2.91

- 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.
- WASHDOWN ONLY THE CHUTE, HOPPER AND REAR OF THE VEHICLE. DO NOT WASH OUT THE DRUM.
 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 TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

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

SPILL PREVENTION

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

GOOD HOUSEKEEPING

- QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

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

PRODUCT SPECIFIC PRACTICES

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

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

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

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

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.

SOIL CLEANUP AND CONTROL PRACTICES

- 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.
- 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
- 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
- HOURS.
 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

ON-SITE BUILDING MATERIALS

PREPARED BY THAT LICENSED PROFESSIONAL.

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.

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

<u>MAINTENANCE</u>

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.

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.



ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

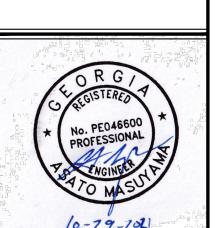
CITY OF BROOKHAVEN 3360 OSBORNE RD BROOKHAVEN, GA 30319 PHONE: 404.637.0562

BRIAN BORDEN

PRIMARY PERMITTEE / OWNER CONTACT

24-HR. EMERGENCY CONTACT: BRIAN BORDEN - 404.637.0562 BRIAN.BORDEN@BROOKHAVENGA.GOV DESIGN SPACES FOR LIFE.

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



F

ID RECREATION DEPARTMEN DISTRICT 18

OOKHAVEN PARKS AND RECRE

D D

OPME

0

G

A

UBMITTALS / REVISIONS

NO. DATE DESCRIPTION

1 12/13/21 PERMIT REVISIONS

ISSUED FOR BID

ESPC NOTES

PROJECT NO. DATE
20180-1 03/03/2022

DRAWN BY SCALE
MTC NTS

CHECKED BY
DMY

C2 21

COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

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

GENERAL

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

SOIL CONDITIONS

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

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT

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

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

	4000 LBS./ACR 1500 LBS./ACR 5000 LBS./ACR
APPLICATION RATE/ACRE 10 LBS.	PLANTING DATES 3/1-6/15
50 LBS.	9/1-10/31
50 LBS. 50 LBS.	11/1-2/28
5000 LBS.	6/15-8/31
ARE 2 TO 4 INCHES TALL 5%)	300 LBS./ACRE
EQUIVALENT)	800 LBS./ACRE
	10 LBS. 50 LBS. 50 LBS. 50 LBS. 50 LBS. 5000 LBS.

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

A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1 AND STEEPER) AGRICULTURAL LIMESTONE #75 FERTILIZER, 5-10-15 MULCH, (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH 5000 LBS./ACRE 1000 LBS./ACRE

SEEDING SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
SERICEA LESPEDEZA, SCARIFIED	60 LBS.	
WEEPING GRASS OR	4 LBS.	3/1-6/15
COMMON BERMUDA, HULLED	6 LBS.	
FESCUE	40 LBS.	9/1-10/31
SERICEA LESPEDEZA, UNSCARIFIED	60 LBS.	9/1-10/31
SERICEA LESFEDEZA, UNSCARIFIED	00 LB3.	
FESCUE	40 LBS.	
SERICEA LESPEDEZA, UNSCARIFIED	75 LBS.	11/1-2/28
RYE	50 LBS.	
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15-8/31
B. TOP DRESSING: APPLY WHEN PLANTS A		0000 DO /4 ODE
FERTILIZER (AMMONIUM NITRATE 33.	5%)	3000 LBS./ACRE
C. SECOND-YEAR FERTILIZER: (0-20-20 OR I	EOLIIVALENT)	500 LBS./ACRE
O. <u>3LGOND-TLANT LITTILIZLIN.</u> (0-20-20 ON I	_QUIVALLINI)	JUU EBS./ACINE

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

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 6. 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.
- 7. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

GENERAL NOTES:

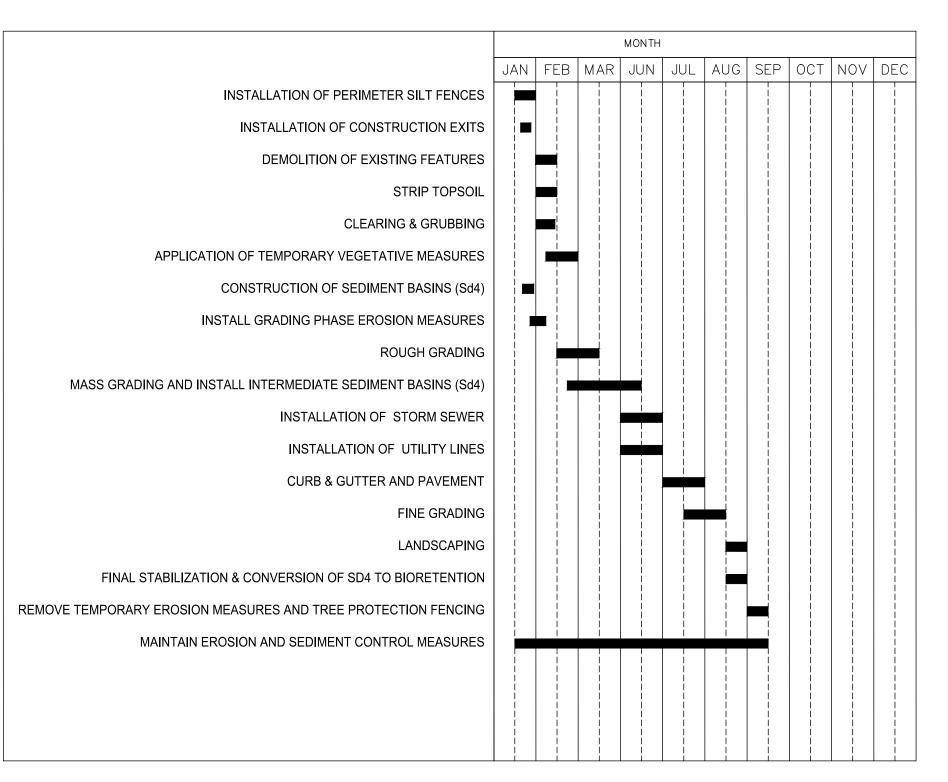
- 1. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVES, GRASSING, AND LANDSCAPING.
- 2. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
- A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL
- B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND
- D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/ EXIT DRIVES

FREQUENT WATERING OF EXCAVATION AND FILL AREAS

- 10. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ONSITE INSPECTOR.
- 12. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
- 13. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND LOTS, AND LOTS SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.
- 14. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE CITY ENGINEER STARTING WITH THE ISSUANCE OF THE LDP AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
- 15. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR 100001.
- 16. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONROL EROSION.
- 17. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH STABILIZED WITH PERMANENT VEGETATION AND ALL ROAD/DRIVEWAYS HAVE BEEN PAVED.

ON-SITE BUILDING MATERIALS:

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



ANTICIPATED CONSTRUCTION SCHEDULE START DATE: 01/2022 END DATE: 09/2022



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.

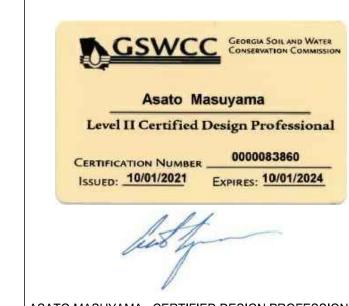


ZI.

LANGFORD PARK
TE DEVELOPMENT DOCUMENTS

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.



ASATO MASUYAMA, CERTIFIED DESIGN PROFESSIONAL

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

PHONE: 404.637.0562

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

ESPC NOTES

ISSUED FOR BID

UBMITTALS / REVISIONS

IO. DATE DESCRIPTION

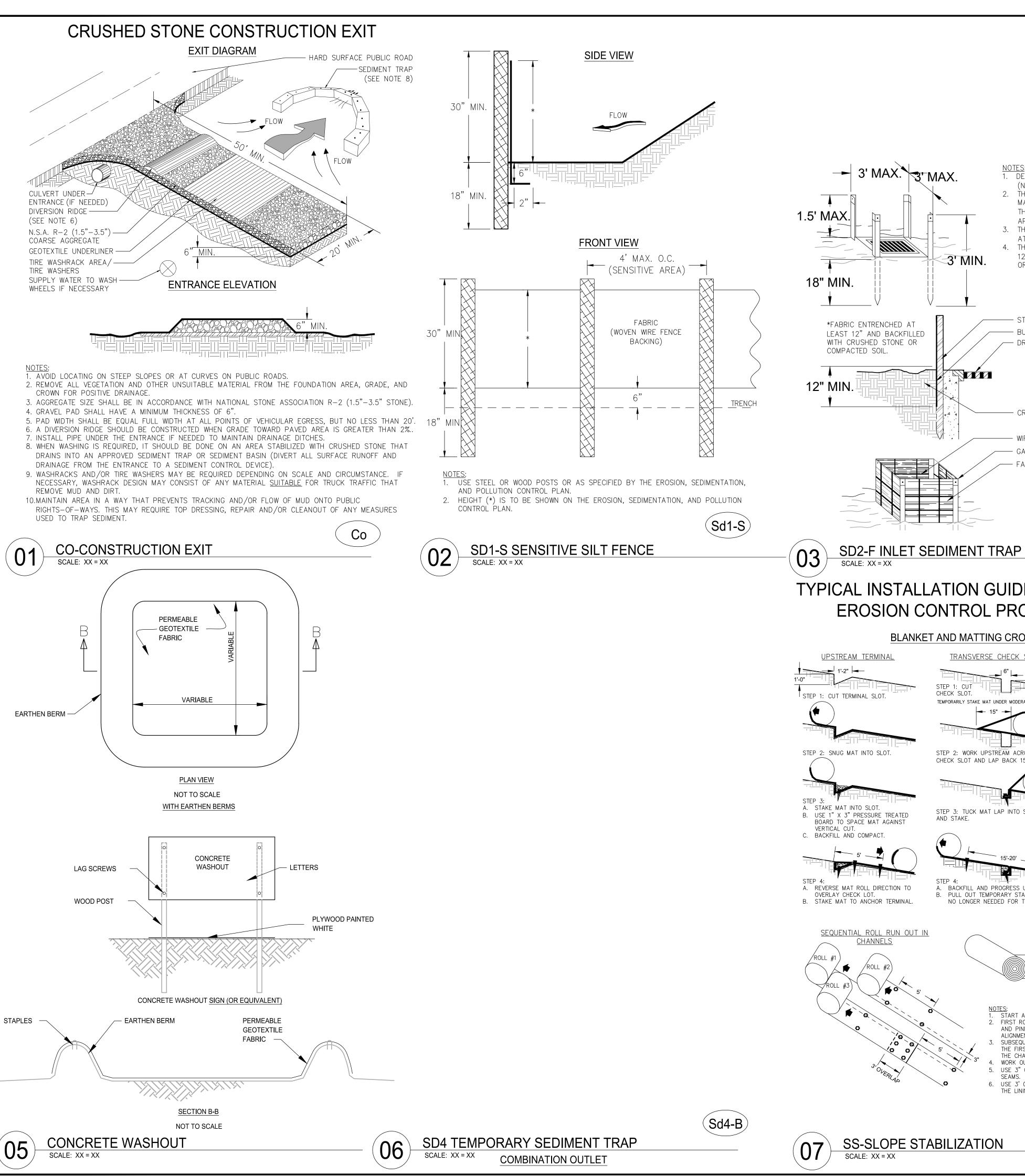
PERMIT REVISIONS

20180-1 03/03/2022

DRAWN BY SCALE NTS

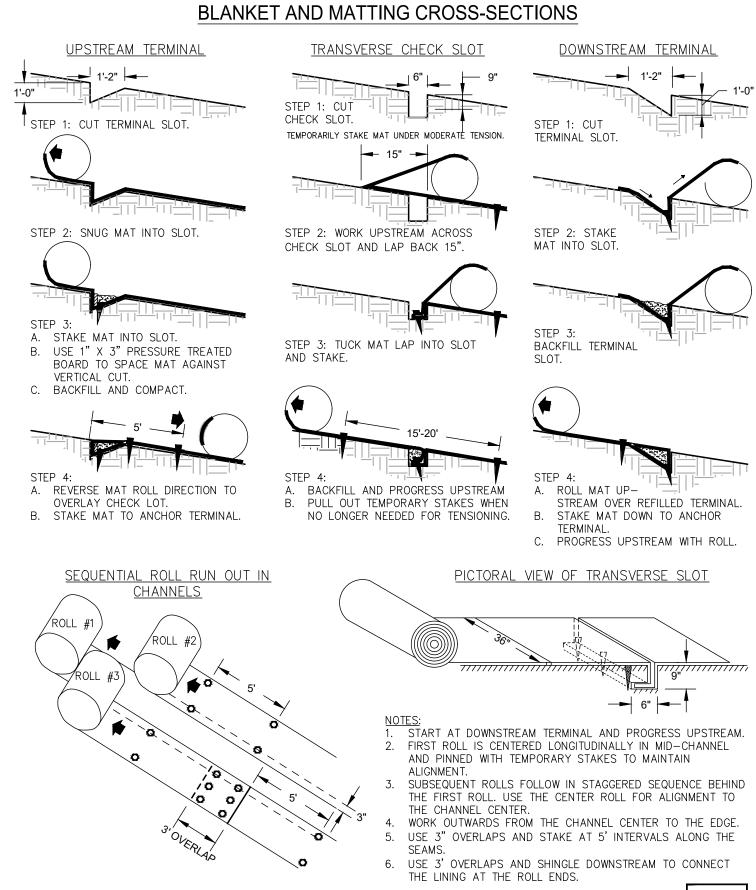
CHECKED BY DMY

SHEET NO.



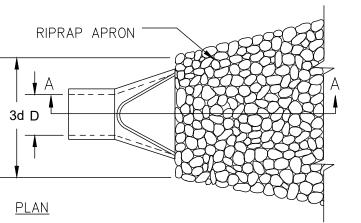
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS). 2. THE STEEL POSTS SUPPORTING THE SILT FÉNCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' 3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP. 4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. *FABRIC ENTRENCHED AT --- BURIED FABRIC LEAST 12" AND BACKFILLED WITH CRUSHED STONE OR -- DROP INLET WITH GRATE COMPACTED SOIL CRUSHED STONE OR COMPACTED SOIL WIRE-BACKING — GATHER EXCESS AT CORNERS - FABRIC WITH WIRE-BACKING SUPPORT

TYPICAL INSTALLATION GUIDELINES FOR ROLLED **EROSION CONTROL PRODUCTS (RECP)**



SS-SLOPE STABILIZATION SCALE: XX = XX

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



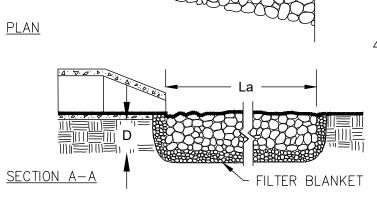
- 1. La IS THE LENGTH OF THE RIPRAP
- 2. D = 1.5 TIMES THE MAXIMUM STONE

DIAMETER BUT NOT LESSHAN 6".

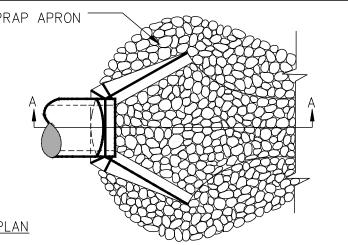
IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE

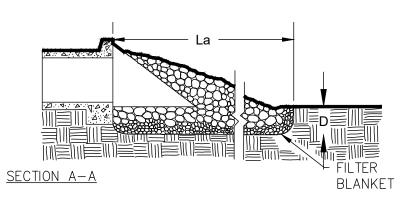
TOP OF THE BANK (WHICHEVER IS LESS)

A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.



PIPE OUTLET TO WELL DEFINED CHANNEL





ST-STORMWATER OUTLET PROTECTION SCALE: XX = XX

Table 1.

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

NOTES: 1. APPLY ACCORDING TO PLAN 2. MULCH DISTURBED AREAS AND TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL, OR TERRATACK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS 3. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION. 4. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET. 5. COVER SURFACES WITH CRUSHED STONE OR GRAVEL 6. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST 7. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS DESCRIBED IN TABLE 1. 8. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.

DU-DUST CONTROL

HIS 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.

PA DOC ANGFORD

EVELOPMENT

UBMITTALS / REVISIONS NO. DATE DESCRIPTION ISSUED FOR BID

ESPC DETAILS

20180-1 03/03/2022 DRAWN BY MTC NTS CHECKED BY DMY SHEET NO.

SCALE: XX = XX

9. SUPPLEMENT SURFACE COVERING AS NEEDED.

Ss



DEFINITION

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

PURPOSE

To reduce runoff and erosion

To conserve moisture

To prevent surface compaction or crusting

To control undesirable vegetation

To modify soil temperature

To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six

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

GSWCC 2016 Edition

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

SPECIFICATIONS

Site Preparation

Mulching Without Seeding This standard applies to graded or cleared areas where seedings may not have a suitable

cover, but can be stabilized with a mulch cover.

Grade to permit the use of equipment for

growing season to produce an erosion retardant

- applying and anchoring mulch. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
- Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

- Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
- Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
- Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch When mulch is used without seeding, mulch shall be applied to provide full coverage of the

Dry straw or hay mulch and wood chips

shall be applied uniformly by hand or by mechanical equipment.

DS1 - DISTURBED AREA STABILIZATION (WITH

SCALE: XX = XX

MULCHING ONLY)

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

Apply polyethylene film on exposed areas.

Anchoring Mulch

 Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's speci-

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

Table 6-4.1 - Temporary Cover or Companion Cover Crops PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS 1

Species	Broadcas	Resource Area ³		F	Plant	ting	Date	es b	y Re	esou	Remarks					
				Solid	d line			e opt								
2	Rate Per Acre ²	Pure Live Seed (PLS) Per 1000 sqft		J	F	М	Α	М	J	J	Α	s	0	N	D	
BARLEY Hordeum vulagre																
alone	3 bu. (144 lbs)	3.3 lbs	M-L									_	-			14,000 seed per pound. Winter hardy. Use
in mixture	1/2 bu. (24lbs)	0.6 lb	Р													on productive soils.
			С													•
LESPEDEZA, ANNUAL Lespedeza striata																
alone	40 lbs	0.9 lb	M-L	-												200,000 seed per pound. May volunteer for sev
in mixture	10 lbs	0.2 lb	P			_										eral years. Use inoculant EL.
87			С	77.75		7										
LOVEGRASS, WEEPING Eragrostis curvula																
alone	4 lbs	0.1 lb	M-L				_									1,500,000 seed per pound. May last for several
in mixture	2 lbs	0.05 lb	P				-									years. Mix with Sericea lespedeza.
8	1-		С													
MILLET, BROWNTOP Panicum fasciculatum																
alone	40 lbs	0.9 lb	M-L													407.000
in mixture	10 lbs	0.2 lb	P													137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if
			С				-									seeded at high rate.

Species	Broadcas	t Rates	Resource Area ³				ting		Service and	1 113		Remarks				
	Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.													cate		
	Rate Per Acre²	Pure Live Seed (PLS) Per 1000 sqft	To the state of th	J	F	М	А	М	J	J	Α	s	0	N	D	
MILLET, PEARL Pennesetum glaucum																
alone	50 lbs	1.1 lbs	M-L P C			7.										88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
OATS Avena sativa																
alone	4 bu. (128 lbs)		M-L									Company :				
in mixture	1 bu. (32 lbs)	0.7 lb	P C											_		13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
RYE Secale cereale	77															
alone	3 bu. (168 lbs)	3.9 lbs	M-L													
in mixture	1/2 bu. (28 lbs)	0.6 lb	P C			83					-				-1-1-1	18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
RYEGRASS, ANNUAL Lolium temulentum																
alone	40 lbs	0.9 lb	M-L					6		3						
			P C							<u> </u>						227,000 seed per pound. Dense cover. Very com petitive and is <u>not</u> to be used in mixtures.
SUDANGRASS Sorghum sudanese																
alone	60 lbs	1.4 lbs	M-L P C													55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.

GEORGIA

Major Land Resource Areas

128 Southern Appalachian Ridges and Valleys

137 Carolina and Georgia Sand Hills 153A Atlantic Coast Flatwoods

129 Sand Mountain 130B Southern Blue Ridge 133A Southern Coastal Plain 136 Southern Piedmont

153B Tidewater Area

Species	Broadcast Rate	Broadcast Rates			F	Plan	ting	Dat	es t	y Re	eso	urce	Remarks			
				Sol	lid lin		dicat permi									
	Rate Per Acre ²	Pure Live Seed (PLS) Per 1000 sqft		J	F	М	А	M	J	J	А	s	0	N	D	
TRITICALE X-Triticosecale																
alone in mixture	3 bu. (144 lbs) 1/2 bu. (24 lbs)	3.3 lbs 0.6 lb	С		111							in a				Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
WHEAT Triticum aestivum																
alone in mixture	3 bu. (180 lbs) 1/2 bu. (30 lbs)	4.1 lbs 0.7 lb	M-L P C									200				15,000 seed per pound. Winter hardy.

¹Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily

³M-L represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs

P represents the Southern Piedmont MLRA

²Reduce seeding rates by 50% when drilled.

C represents Southern Coastal Plan; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs (see Figure 6-4.1, p. 6-40)

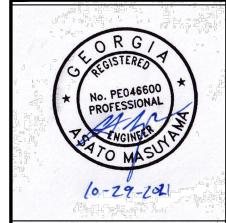
DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



SCALE: XX = XX

81°0'0"W USDA Natural Resources 0 5 10 20 30 40 Miles Conservation Service 1 inch equals 40 miles Revised 2006 Figure 6-4.1 6-34 GSWCC 2016 Edition

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.



PARK DOCUM

LANGFORD DEVELOPMENT I

UBMITTALS / REVISIONS NO. DATE DESCRIPTION ISSUED FOR BID SHEET TITLE

ESPC DETAILS

DRAWN BY MTC CHECKED BY DMY SHEET NO.

81-	Table 6	5.1. Fertilizer Red	quirements	5	୍ଦ W Table	e 6-5.2- Permanent Cover C	Crops					GSW	Table 6-5.2- Permanent C	Cover Crops E, AND PLANTING DATE FOR	R PERMANENT COVER 1						
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	R	N TOP DRESSING RATE	CC 2016	NT, PLANTING RATE, AND	PLANTING DATE FO	OR PERMANENT	COVER 1			CC 2016	Species	Broadcast Rates	Resource Area ³ Planting Dates by	v Rosource Area		Remarks			
Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lb 1000 lb 400 lbs	bs./ac. 50-100 lbs./ac. 1/2	Spec	cies	Broadcast Rates	Area ³	Planting Dates by Resource	ines indicate	Remarks	Edition	opecies		Solid līnes indicate optimum permissible but	dates, dotted lines ii		Renars			
Cool season grasses and	First Second	6-12-12 0-10-10	1500 lb				Pure Seed (Live (PLS)	permissible but marginal dates					Pure Li Seed (Pi Rate Per Acre² Per 1000	PLS)	J A S O	N D				
legumes 3. Ground covers	Maintenance First	0-10-10 10-10-10	400 lbs			IA, PENSACOLA	ate Per Acre ² Per 100	00 sqft	J F M A M J J A S	O N D			BERMUDA SPRIGS Cynodon dactylon	40 cu ft 0.9 cu ft	A						
5. Glound covers	Second Maintenance	10-10-10 10-10-10		bs./ac. 3/		e or with temporary	60 lbs 1.4	lbs P			d per pound. Low growing. Slow to establish. Plant wit		Coastal, Common, Midlar or Tift 44		M-L		sprigs. A	oot contains approxim bushel contains 1.25			
Pine seedlings	First	20-10-5	per see	l-gram pellet edling placed closing hole		other perennials	30 lbs 0.7			companion companion compastures and	rop. Will spread nto bermud awns. Mix with Sericea les	da	Coastal, Common, of Tift	44	P		A 5040.40 (1500.00)	ately 800 springs.			
5. Shrub Lespedeza	First	0-10-10	700 lbs	s./ac.		IA, WILMINGTON	5.1			3023 of 1700p	onig iovograss.		Tift 78		С		Southerr	Coastal Plain only		ı	
6. Temporary cover crops	Maintenance First	0-10-10 10-10-10	700 lbs	s./ac. 4/ 30 lbs./ac. 5/	alone	e or with temporary	60 lbs 1.4 30 lbs 0.7			Same as abo	nve		CENTIPEDE Eremochloa ophuiroides	Block sod only	P						
7. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lb 800 lbs 400 lbs	s./ac. 50-100 lbs./ac. 2/	BER Cynd	MUDA, COMMON odon dactylon ed seed	30 103 0.1	D P		Same as abo	WG.;			10000000000000000000000000000000000000	Č	-	Effective	tolerant. Full sun or p adjacent to concrete I flow areas. Irrigation	and in con- is needed		
Warm season grasses and	First Second	6-12-12 0-10-10	1500 lb	bs./ac. 50 lbs./ac./6/ bs./ac.	alone		10 lbs 0.2 6 lbs 0.7				ed per pound. Quick cover and sod forming. Full sun.		CROWNVETECH				pastures	established. Do not . Winterhardy as far a nd Atlanta			
legumes	Maintenance	0-10-10	400 lbs	s/ac.	_ BER	MUDA, COMMON odon dactylon	0.00			Social of all	oto mous.		Coronilla varia								
1/ Apply in spring follow 2/ Apply in split applicati	ions when high rate:	s are used.				ulled seed temporary cover	10 lbs 0.2			Plant with wir							Drought rose, pin	seed per pound. Den: tolerant and fire resist k and white blossoms	ant. Attractive spring to late		
3/ Apply in 3 split applica 4/ Apply when plants are 5/ Apply to grass specie 6/ Apply when plants gro	e pruned. es only.	o 4 inches.			with	other perennials	6 lbs 0.1	lb C	H	Plant with Tal	II Fescue		with winter annuals or co- season grasses	15 lbs 0.3 lb	M-L		pounds o	with 30 pounds of Tal of rye. Inoculate see we from North Atlanta a	with M inocu-		
g X Table 6-5.2- Perman							GSWC		manent Cover Crops ING RATE, AND PLANTING DATE	FOR PERMANENT CO	VER ¹			GSW	Table 6-5.2- Permanent Cover Crop PLANT, PLANTING RATE, AND PL		OR PERMANE	NT COVER 1			
PLANT, PLANTING	RATE, AND PLANT	ING DATE FOR PER	RMANENT CO	OVER 1)C 2016 E	Species	Broadcast Rate	Resource	Planting Dates by Resou	ırce Area	Remar	WCC 2016		Broadcast Rates	Resource		es by Resource	e Area	Remarks
Species	Bro		Resource Area ³	Planting Dates by Resource A	rea	Remarks	dition				d lines indicate optimum dates, do	otted lines indicate		Edition				Solid lines indicate opti	mum dates, dotte	d lines indicate	
			So	olid lines indicate optimum dates, dotted lin permissible but marginal dates.	es indicate				Pui See	re Live d (PLS)	permissible but marginal o	dates.				Pure Seed	(PLS)	permissible	but marginal date	es.	
	Rate Per	Pure Live Seed (PLS) Acre² Per 1000 saft	ă	F M A M J J A S O) N D			LESPEDEZA	Rate Per Acre² Per 1		F M A M J J A	S O N D			MAIDENCANE Panicum hemitomon	Per Acre ² Per 10	00 sqft	J F M A M	J J A S	OND	
FESCUE, TALL Festuca arundinacea		rore real recording						Ambro virgata Lespedeza virga or	ata DC											For very	wet sites. May clog channels. Dig
alone	50 lb:	s 1.1 lb	M-L		better s	00 seed per pound. Use alor sites. Mix with perennial les wnvetch. Apply topdressing	pededza	Appalow Lespedeza cun (Dumont) G. Do							PANICGRASS, ATLANTIC	spacing A	LL				om local sources. Use along river nd shorelines.
with other perennials	s 30 lb	s 0.7 lb	Р		followir	ng fall plantings. Not for hea or athletic fields.				M-L			300,000 seed per pound.		COASTAL Panicum amarum var amarukum						
KUDZU Pueraria thumbergia	ina							scarified	60 lbs 1	4 lb P C			18 to 24 inches. Advanta eas. Spreading-type grow bronze coloration. Mix with	vth. New growth has th weeping loveg-						areas, a	well on coastal sand dunes, borrow and gravel pits. Provides winter cover ife. Mix with Sericea lespedeza except
Plants or crowns	3	' - 7' apart	ALL		gully er	and vigorous growth. Excelle rosion control. Will climb. Go ck forage.	ent in lood			M-L P			rass, common bermuda, or winter annuals. Do no lespedeza. Slow to devel	t mix with Sericea op solid stands.	REED CANARY GRASS	0 lbs 0.5	Slb C			on sand	
LESPEDEZA SERIC Lespedeza cuneata	CEA							unscarified LESPEDEZA, S		.7 lb C			Inoculate seed with EL in	oculant.			I lb M-L			Grows s	similar to Tall fescue
scarified	60 lb:	s 1.4 lb	M-L P C		Low marass, C fescue	00 seed per pound. Widely a laintenace. Mix with Weeping Common bermuda, bahia, or a. Takes 2 to 3 years to becor	g loveg- tall me fully	Lespedeza bico Lespedeza thur	lor	M-L					SUNFLOWER, 'AZTEC' MAXIMILLIAN Helianthus maximiliani	0.103				Olons 3	Time to Tell resease
unscarified	75 lb:	s 1.7 lb			late se	shed. Excellent on roadbank ed with EL inoculant. th Tall fesue or winter annual		plants LOVEGRASS, V	3' x3' WEEPING	PC			Provide wildlife food and	cover.		0 lbs 0.2	M-L P C				seed per pound. Mix with Weeping ss or other low-grwoing grasses or s.
			**************************************		Cut wh	nen seed mixture is mature, t shatters. Add Tall fescue or	but be-	Eragrostis curvi alone	ıla	1.1 lb M-L			1,500,000 seed per poun	d. Quick cover.	1 Reduce seeding rates by 50% 2 PLS is an abbreviation for Pure 3 M-L represents to Mountain; Bi	e Live Seed. R lue Ridge; and			fications.		
φ seed- bearing hay \$	3 ton	s 1338 lbs	c	01/2/2004	annual		6-45	with other perer	nnials 2 lbs 0.	05 lb P C -			Drought tolerant. Grows v lespedeza on roadbanks.		P represents the Southern Piedn C represents the Souther Coasta		ills;Black Land	s;and Atlantic Coas	Flatwoods I	MLRAs. See Figu	ıre 6-4.1
		Table 6-5.3.				Table 6-5.3. Durable Shr	rubs and Ground C	Covers for Perma	anent Cover												
Ground covers includ	de a wide range of	Ground Covers low-growing plants p	planted toget	ther in considerable numbers to	·		22020										Т	able 6-5.4.			
especially the first year. N	Maintenance is nee	ded to insure survival	I. These grou	es. Weeds are likely to compete, and covers will not be used unless il plants provide adequate cover.	Repandens	me Scientific Name	Mature Height 2-3 ft.	Plant Spacing 5 ft.	Comments Sun, semi-shade.		Table 6-5.3. Durable Shr						Trees for	Erosion Contro	ı		
Fall planting is encou		e need for constant v	watering is re	reduced and plants have time to	Holly Andorra	'Repandens' Juniperus	2-3 ft.	5 ft.	Excellent for slopes.	Common Nam Creeping	Liriope spicata	Mature He	ight Plant Spacing	Comments Spreads by runners.	SITE	SOIL MATERIAL	COMMON	PLANTING TREE SPECIES ¹	SPACING	PLANTING DATES ^a	
	Scientific Name	Mature Height Pla	ant Spacing	Comments	Juniper	horizontalis 'Plumosa'	4040034900008	GRACES.	Sun.	Liriope Big Leaf	Vinca major	12-15 in.	4 ft.	Lilac flowers in spring.	Borrow areas graded areas and	11	Lakeland, Troup	Loblolly pine (Pinus taeda)	2	M-L,P 12/1-3/15 C 12/1-3/1	
Albelia A	Abelia grandiflora	3-4 ft.	5 ft.	Also a prostrate form 2 feet high. Sun,	Andorra Compacta	Juniperus horizontalis	1-2 ft.	5 ft.	More compact than andora.	Periwinkle				Semi-shade.	spoil material			Longleaf pine (Pinus palustris)			
Con-th-	Colcomic	low	3 ft	semi-shade. Semi- evergreen.	Juniper	'Plumosa com- pacta'				Common Periwinkle	Vinca minor	5-6 in.	4 ft.	Lavender-blue flowers in spring. Semi-shade		Loamy	Orangeburg,	Loblolly pine	2	M-L,P 12/1-3/15 C 12/1-3/1	
	Selsemium sempervirens	low	3 ft.	Vine. Yellow, trumpet- like flowers. Hardy, one of best vines. Evergreen. Native to Georgia.	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	8-10 in.	4 ft.		Cherokee Rose	Rosa laevigata	2 ft.	5 ft.	Rampant grower. Not for restricted spaces.			Tifton	Slash pine Loblolly pine			
Carpet Blue A	Ajuga reptans	2-4 in.	3 ft.	Needs good drainage, partial shade.	Blue Rug Juniper	Juniperus horizontalis	4-6 in.	3 ft.	Very low, Sun.	Memoria Rose	Rosa weuchuriana	2 ft.	5 ft.	State flower. Rampant grower.		Clay	Cecil, Facevillle	Slash pine Virginia pine	2	M-L,P 12/1-3/15 C 12/1-3/1	
Subschilden in the second	200WAX099412-00-	Applicated		Blue or white flowers. Evergreen.	Parsons	'Wiltonii' Juniperus	18-24 in.	5 ft.	One of the best,	St. Johnswort	Hypericum calycenum		3 ft.	Semi-shade.	Streambanks	1		(Pinus virginiana) Willows ⁴	721.2		
Cotoneaster d	Cotoneaster dammeri		5 ft.	White flowers, red fruit. Sun. Evergreen.	Juniper	davurica 'Expansa'	4700.003.929		good winter cover.	Anthony Waterer Spirea	Spirea bumalda	3-4 ft.	5 ft.	Sun.				(Salix speciecs)	2 ft x 2 ft	ALL	
	salicifoluis 'Repens'			White flowers, red fruit. Sun. Evergreen.	15_1400000000	(Squamata Parsoni)	المستخدمين	you.∨	Lagrage Lagrangian	Thunberg Spirea	Spirea thinbergii	3-4 ft.	5 ft.	Sun.	Other trees wildlife ber		ed on Table 6-2	5.3 may be interplant	ed with the pi	nes for improved	
Cotoneaster h	Cotoneaster norizontalis		5 ft.	Semi-evergreen. Sun.	Pfitzer Juniper	Juniperus chinensis 'Pfitzerana'	6-8 ft.	6 ft.	Needs room.	-04000E					² Type of Pla		Tree	Spacing No	o. of Trees Per	r Acre	
	Parthenocissue quinquefolia	low	3 ft.	Red in fall. Vine. Deciduous, Native to Georgia.	Prince of	Juniperus	8-10 in.	4 ft.	Feathery appearance.						Trees alon	е			2722		
Daylily H	lemerocallis spp.	2-3 ft.	2 ft.	Many flower colors. Full sun. Very hardy.	Wales Junipe	'Prince of Wales'	ggr geomo	gar sare	■ Opp St. State & Sta		NOTE: REFER TO L-SERIE PROPOSED FOR FINAL CO					es and/or other	plants 6 ft.	x 6 ft.	1210		
	Hedera helix lex crenata		3 ft. 5 ft.	Shade only. Climbs. Sun, semi-shade.	Sargent Juniper	Juniperus chinensis 'Sargentii'	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winter color.	Т	THAT ARE DISTURBED DURECEIVE PLANTING ON TI	JRING CONST	RUCTION THAT DO NOT					; and Ridges and Val	levs MLRAs		
Holly 'C	Compacta'		5 ft.	Very durable. Sun,	Shore Juniper		2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are						C represen	its the Southern its the Southern (Figure 6-4.1).		A and Hills; Black Lands;	and Atlantic C	coast Flatwoods ML	
T	Rotunda'		8 ft.	semi-shade.	1 Iriana	Lidana august	8-10 in.	2 8	good.		00 Blo=:)	-	7.4.	4 F43:	n of companion	Crop is ample fo	or this species			
Holly "	Nana' lex vomitoria		5 ft.	Very durable, sun,	Liriope	Liriope muscari	o-to in.	3 ft.			S3 - DISTURE ERMANENT \			ZATION (WITH	1 GrillZadO	- January Control	ample it				
	Nana'			semi-shade.	6-48				GSWCC 2018 Edition		ALE: NTS	v LULI <i>F</i>	· · · · · · · · · · · · · · · · · · ·		6-50					GSWCC 2016 Edi	tion

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.

LANGFORD PARK
DEVELOPMENT DOCUMENTS CITY OF BROOKHAVEN PARKS AND RECRE OKHAVEN LAND LOT 200, DISTRICT SITE

SUBMITTALS / REVISIONS NO. DATE DESCRIPTION

ISSUED FOR BID

ESPC DETAILS

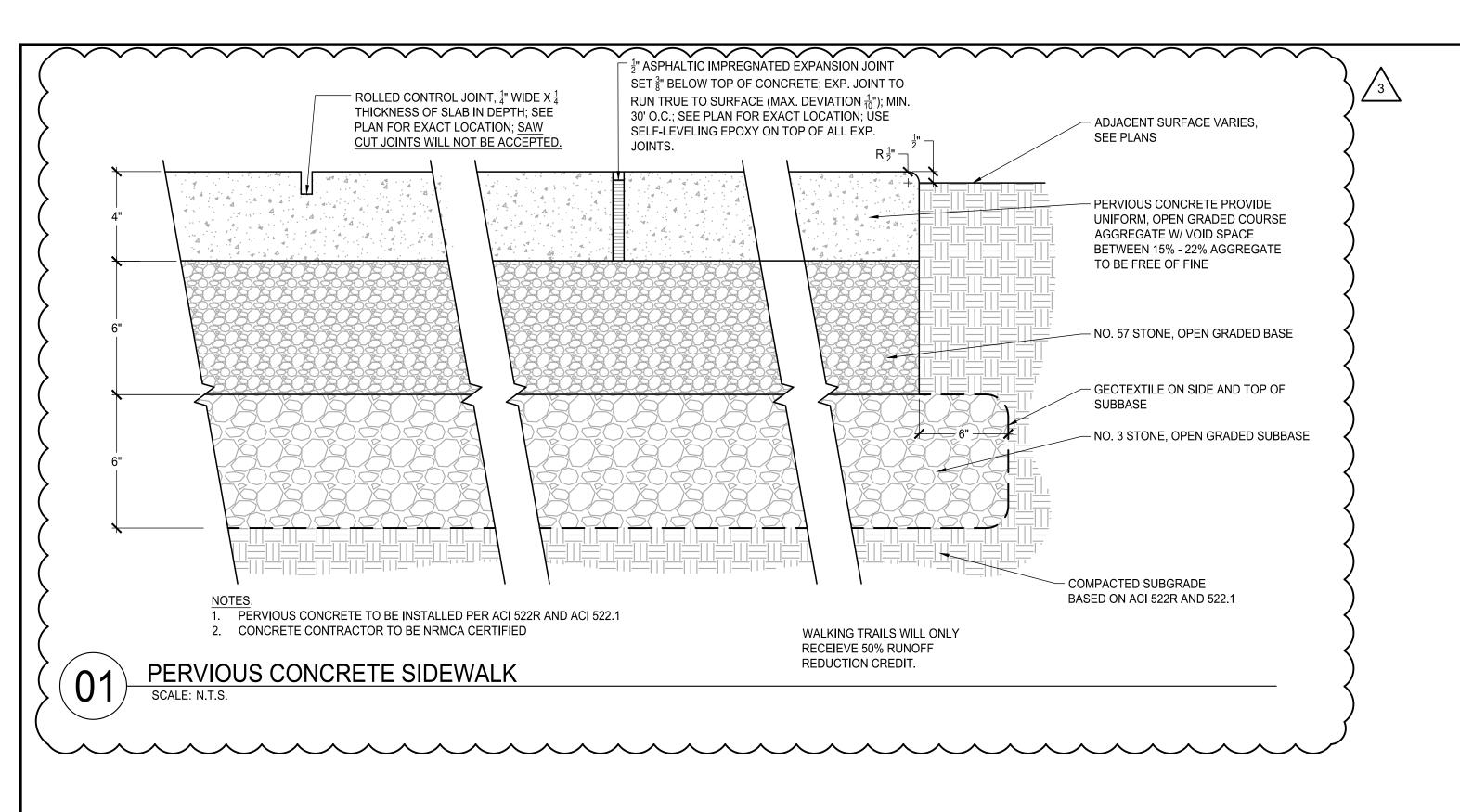
PROJECT NO. DATE
20180-1 03/03/2022

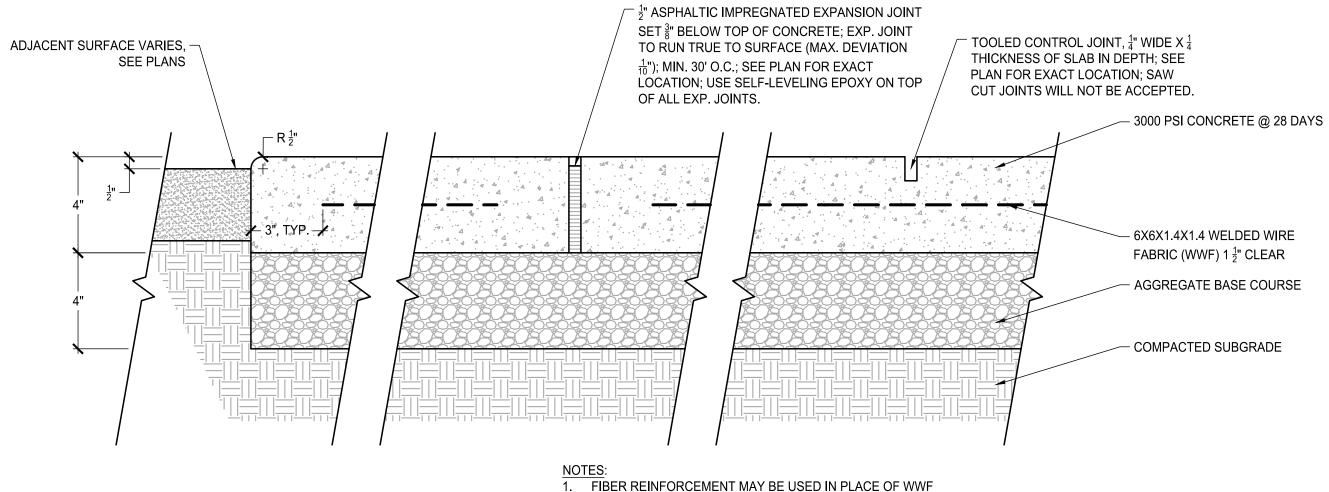
DRAWN BY SCALE
MTC NTS

CHECKED BY
DMY

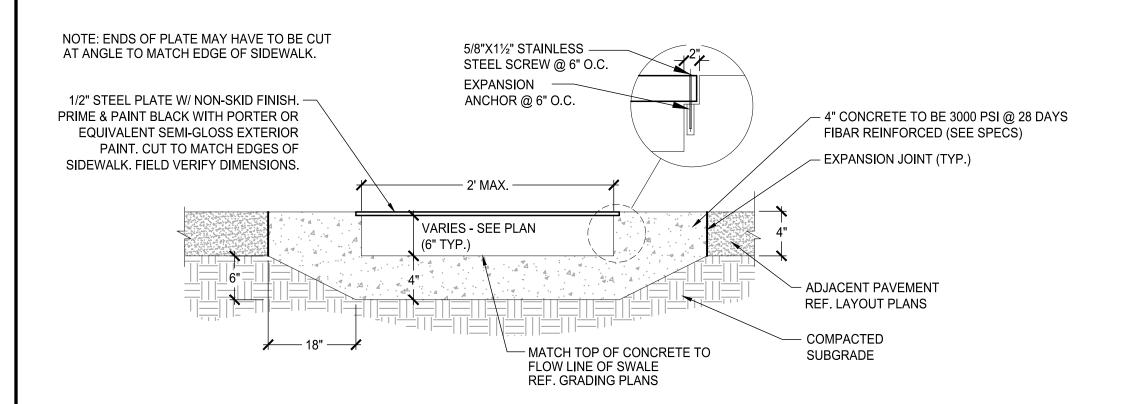
SHEET NO.

C2.32

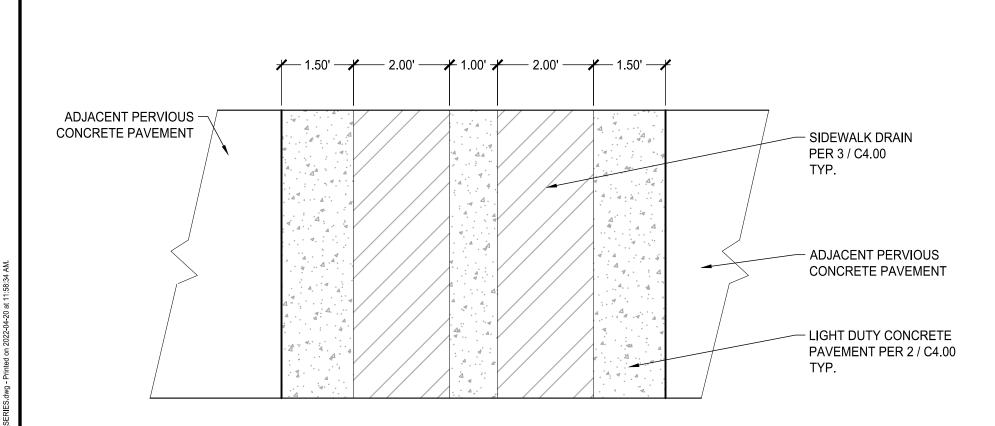


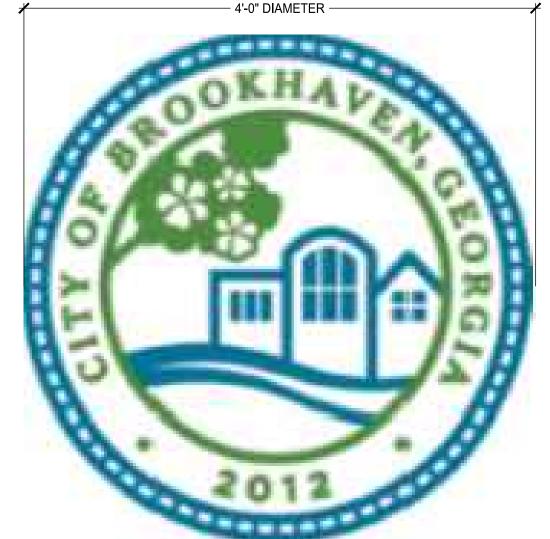


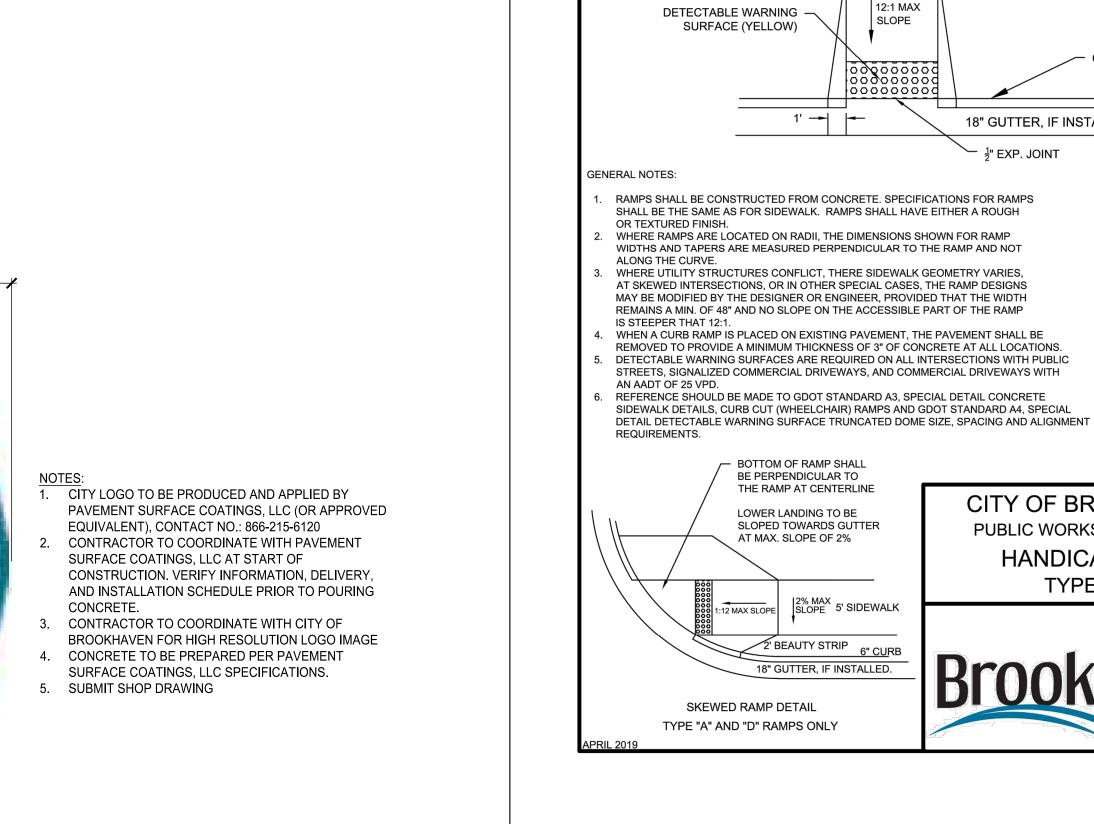
LIGHT DUTY CONCRETE



SIDEWALK DRAIN SCALE: N.T.S.









2% MAX SLOPE

CONST. JOINT

18" GUTTER, IF INSTALLED.

NOT TO SCALE

CITY OF BROOKHAVEN

PUBLIC WORKS DEPARTMENT

HANDICAP RAMP

TYPE "D"

[—] ½" EXP. JOINT



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.





PARK DOCUM LANGFORD DEVELOPMENT I

SUBMITTALS / REVISIONS NO. DATE DESCRIPTION PERMIT REVISIONS

ISSUED FOR BID

SITE DETAILS

20180-1 03/03/2022 DRAWN BY MTC NTS CHECKED BY DMY SHEET NO.

C4.00

CITY OF BROOKHAVEN LOGO

1/2 " EXPANSION JOINT
SEE DETAIL 2/C4.00

PLAYGROUND SURFACING BY PLAYGROUND MANUFACTURE

COMPACTED SUBGRADE

CONCRETE W/ FIBER MESH
CONCRETE 3000 PSI. AT 28
DAYS WITH A LIGHT BROOM
FINISH, PERPENDICULAR TO
DRAINAGE. SEE PLANS FOR

PLAYGROUND SURFACING BY PLAYGROUND MANUFACTURE

GEOTEXTILE FABRIC

4"
457 CRUSHED AGGREGATE, LEVELED FOR UNIFORM SURFACE

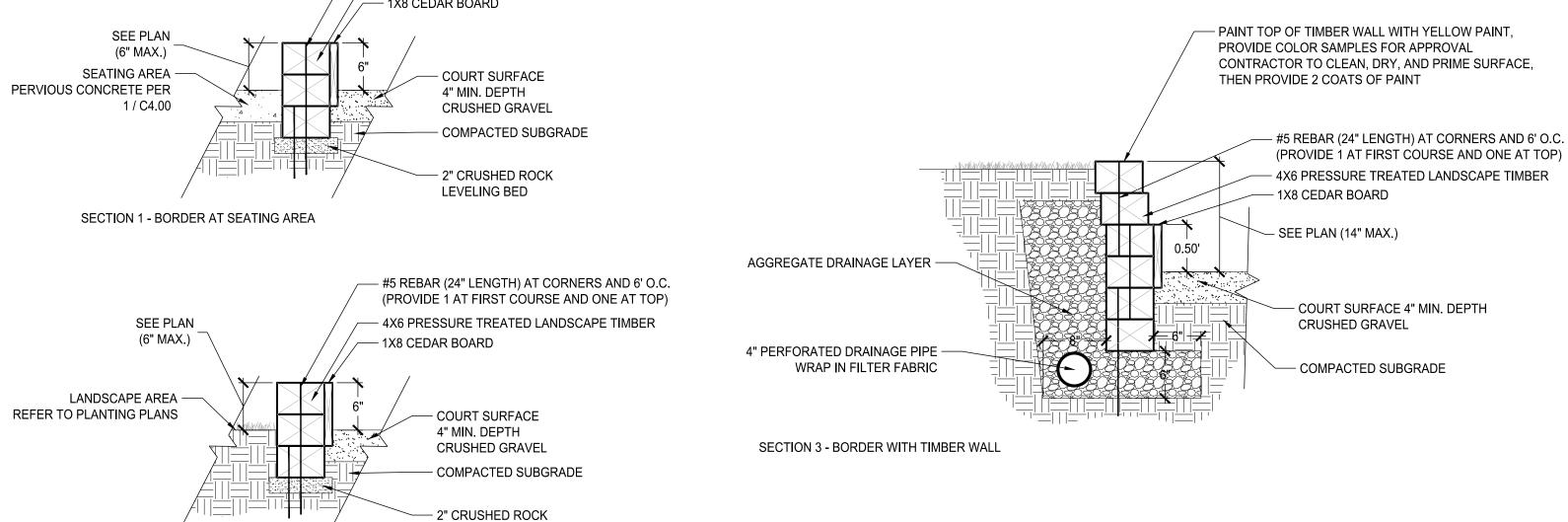
NOTE: PLAYGROUND SURFACING TO BE PROVIDED BY PLAYGROUND MANUFACTURE. ADA RAMP ONLY REQUIRED IF MULCH SURFACING IS USED. CONTRACTOR TO COORDINATE WITH PLAYGROUND INSTALLER TO VERIFY IF RAMP IS REQUIRED AND COORDINATE FINAL LOCATION IN THE FIELD.

02

ADA RAMP INTO MULCH PLAYGROUND (LOCATION TBD)

CONCRETE CURB AT PLAYGROUND EDGE
SCALE: N.T.S.

- IN-BOUNDS LINE 1' FROM EACH SIDE BOARD SECTION 3 CENTER COURT LINE -30' FROM BACKBOARD **2** 03 **1** € SECTION 2 FOUL LINE — - FOUL LINE 10' FROM BACKBOARD 10' FROM BACKBOARD IN-BOUNDS/ FOUL LINE -- IN-BOUNDS/ FOUL LINE TOP VIEW 4' FROM BACKBOARD 4' FROM BACKBOARD NOTE: PAINT 2" THICK BLACK -STRIPE ON TOP OF BORDER AT CENTER / IN-BOUNDS / FOUL LINES - #5 REBAR (24" LENGTH) AT CORNERS AND 6' O.C. (PROVIDE 1 AT FIRST COURSE AND ONE AT TOP) - 4X6 PRESSURE TREATED LANDSCAPE TIMBER - 1X8 CEDAR BOARD - PAINT TOP OF TIMBER WALL WITH YELLOW PAINT, SEE PLAN

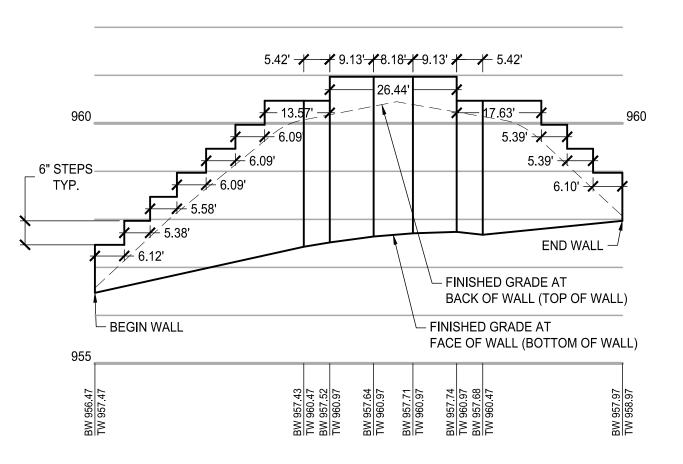


SECTION 2 - BORDER AT LANDSCAPE AREA

LEVELING BED

BOCCE COURT DETAILS

SCALE: N.T.S.



RETAINING WALL ELEVATION SCALE: 1" = 20' (H) / 1"= 2' (V)

04

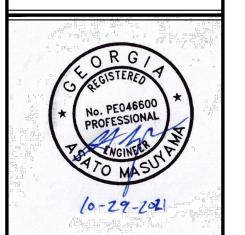
RETAINING WALL DETAILS (REFER TO STRUCTURAL DRAWINGS FOR WALL DESIGN)

SCALE: N.T.S.

DESIGN SPACES FOR LIFE.

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.





LANGFORD PARK
SITE DEVELOPMENT DOCUMENTS

- 4" STONE CAP

MORTAR IN PLACE

- CONCRETE WALL,

— 3" STONE VENEER

– 1" AIR GAP Ì

- FOOTING SEE

SCALE: $\frac{1}{2}$ " = 1'-0"

STRUCTURAL SHEETS

RETAINING WALL VENEER DETAIL

SEE STRUCTURAL SHEETS

CONNECT TO WALL W/ MASONRY

- GROUT FILL TO 6" ABOVE GRADE,

PROVIDE WEEPS PER STRUCTURAL

- SIDEWALK

- BACK UP MATERIAL

AS NECESSARY

ANCHORS @ 16" O.C. HORZ. AND VERT.

ATTACH TO WALL W/ GALV. CLIP ANGLES

SUBMITTALS / REVISIONS
NO. DATE DESCRIPTION

DATE DESCRIPTION

ISSUED FOR BID

SITE DETAILS

PROJECT NO. 20180-1 DATE 03/03/2022

DRAWN BY SCALE NTS

CHECKED BY DMY

SHEET NO.

C4.01

BENCH:

BELSON OUTDOORS SUPPLIER: PRODUCT: COMMERCIAL STEEL OUTDOOR BENCH W/

STRAIGHT BACK OR APPROVED EQUIVALENT CBPC-6SB-BK CONTACT: 800-323-5664 /

WWW.BELSON.COM BLACK, PROVIDE SAMPLE FOR APPROVAL SURFACE MOUNT PACKAGE

INSTALL ALL PARTS, FASTENERS, AND FOOTINGS PER MANUFACTURER'S SPECIFICATIONS.

SUBMIT SHOP DRAWINGS.

TABLE:

SUPPLIER: BELSON OUTDOOR PRODUCT (STND): PARK MASTER PICNIC TABLE 6' LENGTH (PROVIDE 2)

OR APPROVED EQUIVALENT MODEL NO.: PMB-6PGY

PRODUCT (ADA): UNIVERSAL ACCESS (PROVIDE 2) OR APPROVED EQUIVALENT

MODEL NO.: PMB-HPGY

CONTACT: 800-323-5664 / WWW.BELSON.COM

COLOR: GRAY W/ BLACK ENAMEL FRAME, PROVIDE SAMPLE FOR APPROVAL NOTES: PROVIDE 2 - 6' LENGTH AND

> 2 - UNIVERSAL ACCESS TABLE ASSEMBLE AND INSTALL ALL PARTS AND FASTENERS

PER MANUFACTURER'S SPECIFICATIONS PROVIDE IN PLACE

SUBMIT SHOP DRAWINGS

WASTE RECEPTACLE - OPEN TOP (FLAT TOP):

MANUFACTURER: WABASH VALLEY

ELEGANCE - 'J' STYLE 32 GAL. OUTDOOR TRASH

RECEPTACLE WITH LINER OR APPROVED EQUIVALENT

MODEL NO.: TJ3F43I

WASTE RECEPTACLE - COVERED TOP (SOLID BONNET):

MANUFACTURER: WABASH VALLEY ELEGANCE - 'J' STYLE 32 GAL. OUTDOOR TRASH

RECEPTACLE WITH LINER OR APPROVED EQUIVALENT

MODEL NO.: TJ3B43I

CONTACT:

800-253-8619 COLOR: BLACK (FINAL COLOR TO BE APPROVED BY

OWNER PRIOR TO ORDERING) PROVIDE W/ SIDE DOOR

IN GROUND MOUNTING PACKAGE INSTALL ALL PARTS, FASTENERS, AND FOOTINGS

PER MANUFACTURER'S SPECIFICATIONS. SUBMIT SHOP DRAWINGS.

WASTE RECEPTACLE SCALE: N.T.S.

GRILL:

MANUFACTURER: WABASH VALLEY

COVERED GRILL OR APPROVED EQUIVALENT MODEL NO.: GR105N

CONTACT: 800-253-8619 COLOR:

BLACK

PROVIDE WITH IN GROUND MOUNT PACKAGE INSTALL ALL PARTS, FASTENERS, AND FOOTINGS PER

MANUFACTURER'S SPECIFICATIONS.

SUBMIT SHOP DRAWINGS.

GRILL

18" **─** 10" PIPE BY MDF ACCESS DOOR INCLUDE 10" STAINLESS STEEL CARRIER L.D. CONCRETE PAVEMENT -WATER SUPPLY BY OTHERS

BLOCK SUPPORTS BELOW

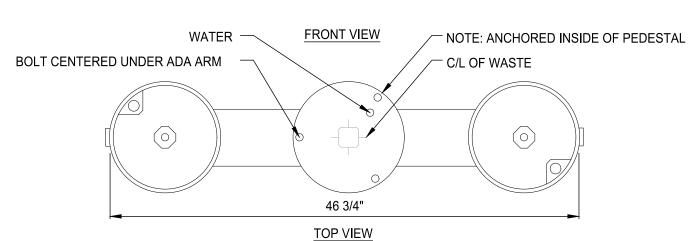
WATER FOUNTAIN:

MANUFACTURER: MOST DEPENDABLE FOUNTAINS, INC. BOTTLE FILLER OR APPROVED EQUIVALENT

MODEL NO.: 10145SM

CONTACT: 901-867-0039

COLOR: TO BE SELECTED BY OWNER NOTES: INCLUDE PET FOUNTAIN



1. PROVIDE WITH ATTACHED PET FOUNTAIN OPTION.

2. CONTRACTOR TO PROVIDE STAINLESS STEEL SURFACE CARRIER.

3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S

SPECIFICATIONS. 4. SUBMIT SHOP DRAWINGS

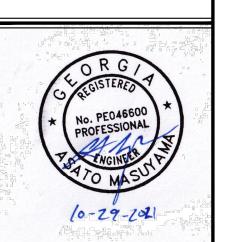
ACCESS 7 3/4" DOOR - 10" MIN. COMPACTED BACK FILL AND SOLID SOD OVER SUMP 10' MAX. - FINISH GRADE 1" BELOW SLOPE TO DRAIN SLOPE TO DRAIN ----ADJACENT PAVING – 1" DOWN – 20" DIA. X 31" H HDPE SUMP LINER (ADS 1530 AC) PERFORATED AND FILLED WITH L.D. CONCRETE PAVEMENT -3/4" DIA. CRUSHED STONE - FILTER FABRIC WRAPPED AROUND SUMP LINER 1-1/2" DIA. DRE\AIN LINE ON — MIN. 2% SLOPE TO SUMP - SUMP PIT - SEE LAYOUT COMPACTED -PLANS FOR APPROX. COMPACTED SUBGRADE -DRAINAGE SUMP LOCATIONS SUBGRADE 1" NYLON REINFORCED TUBING – WATER SUPPLY (NOTE: FLUSH 2" DIA. CRUSHED STONE -SUPPLY LINES BEFORE HOOKUP) INSTALL SOIL SEPARATOR -FABRIC ALONG SIDES OF SUMP FREEZE-RESISTANT CONTROL AND GATE VALVE -ASSEMBLY (LINE SIZE). INSTALL BELOW FROST LINE W/ VEHICULAR STRENGTH CONC. VALVE BOX LEVEL WITH FINISH GRADE AND CONCRETE

CONNECTION DETAIL (SUMP)

WATER FOUNTAIN
SCALE: N.T.S.

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.





PARK DOCUM LANGFORD |
DEVELOPMENT SITE

SUBMITTALS / REVISIONS

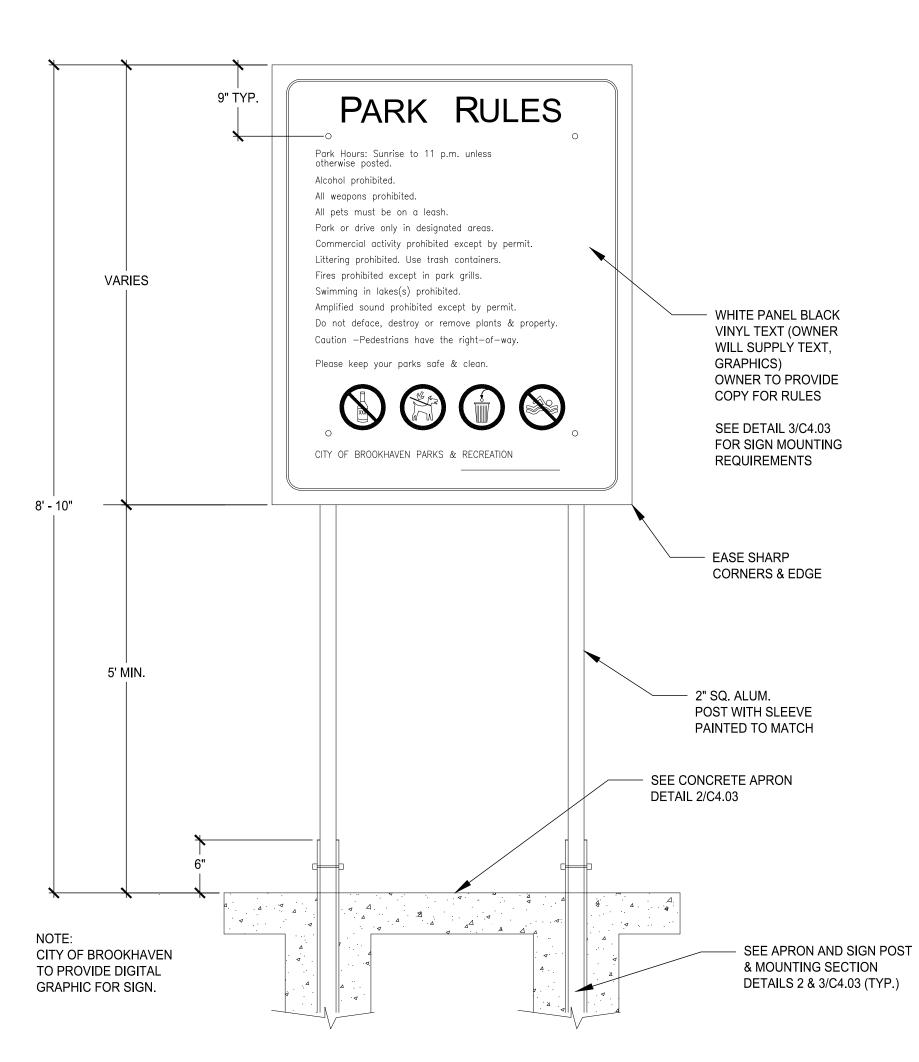
DATE	DESCRIPTION
	·

ISSUED FOR BID

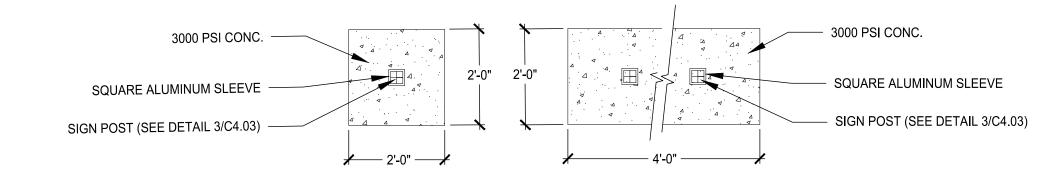
SITE DETAILS

PROJECT NO. DATE 20180-1 03/03/ 03/03/2022 DRAWN BY MTC NTS CHECKED BY DMY SHEET NO.

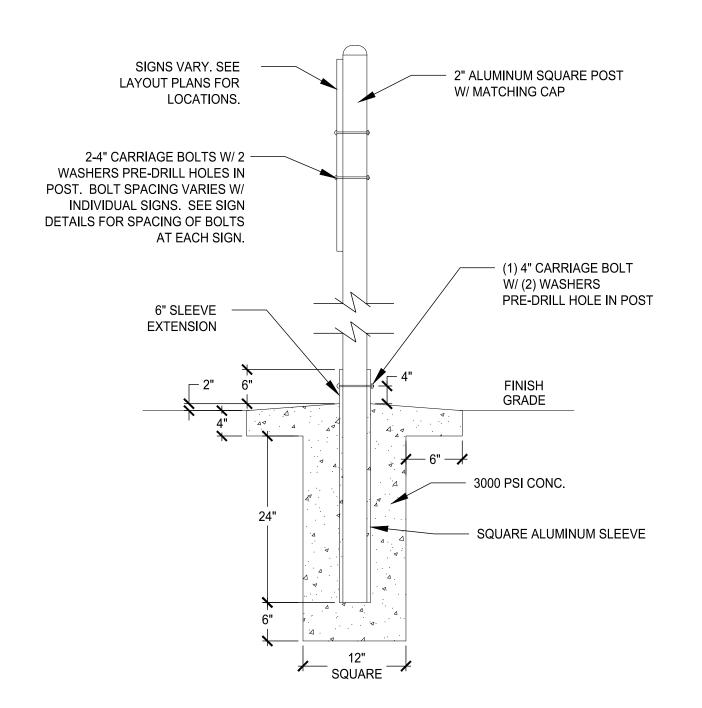
C4.02







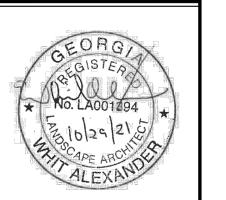


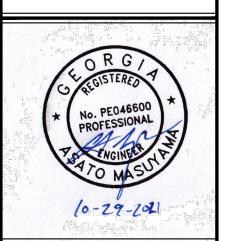


SIGN POST & MOUNTING SECTION SCALE: N.T.S.



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.





LANGFORD PARK
DEVELOPMENT DOCUM SITE

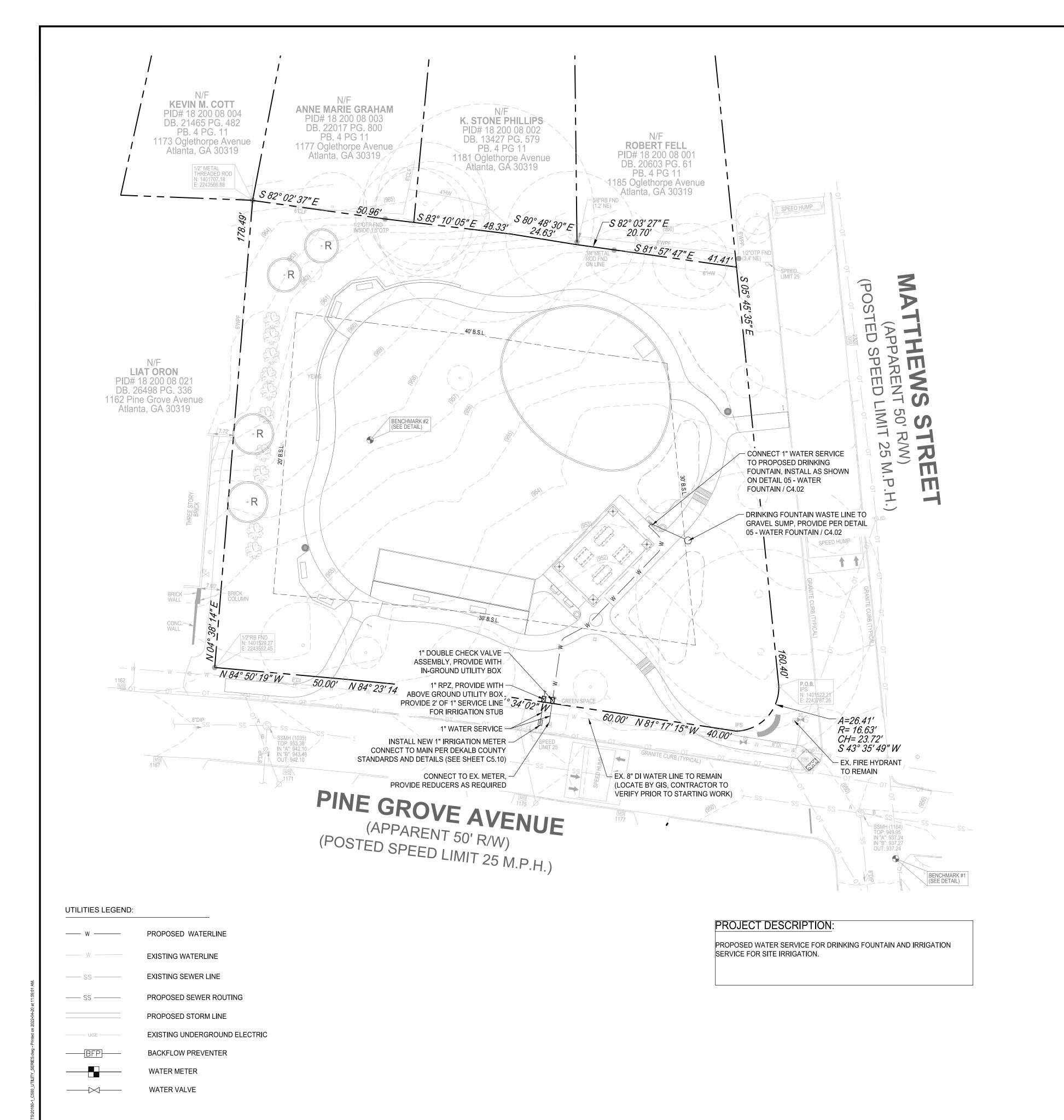
CLID	MITTALO	/ DEVIOIONO		
SOR	MITTALS	/ REVISIONS		
NO.	DATE	DESCRIPTION		
٠				
٠				
٠				
٠				
•				

ISSUED FOR BID

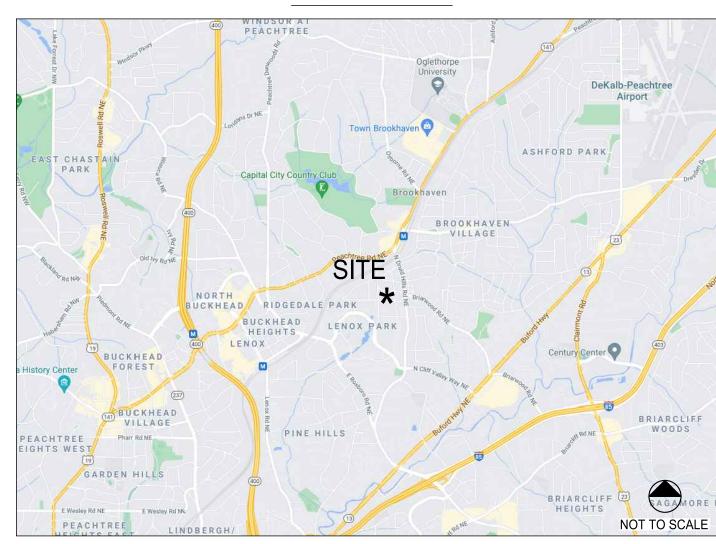
SITE DETAILS

PROJECT NO. 20180-1	DATE 03/03/2022
DRAWN BY MTC	SCALE NTS
CHECKED BY DMY	
DMY	

C4.03



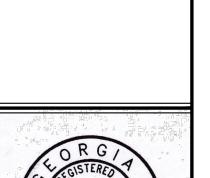




4158 PEACHTREE ROAD, NE BROOKHAVEN, GA 30319



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



10-29-2021

CUMENTS PARK LANGFORD DEVELOPMENT I

SITE

SUBMITTALS / REVISIONS NO. DATE DESCRIPTION CO1 02.18.2022 COUNTY PERMIT COMMENT

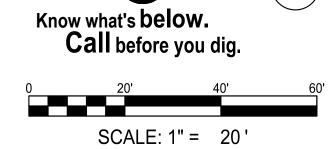
ISSUED FOR BID SHEET TITLE

UTILITY PLAN

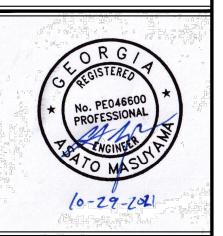
PROJECT NO. DATE 20180-1 03/03/2022 DRAWN BY MTC 1" = 20' CHECKED BY DMY SHEET NO.

C5.00





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



PARK LANGFORD I

SUBMITTALS / REVISIONS

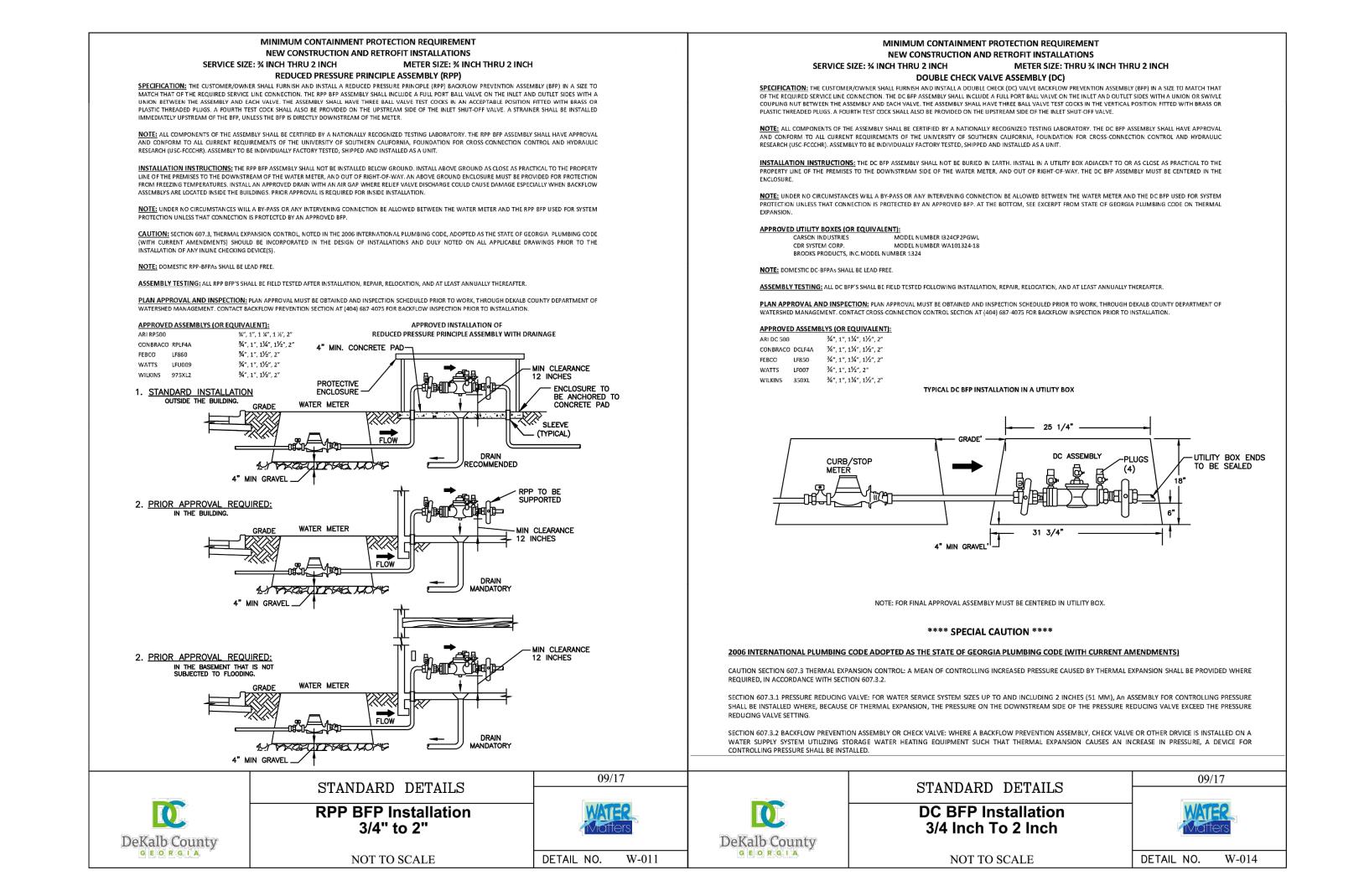
NO. DATE DESCRIPTION

ISSUED FOR BID

UTILITY DETAILS

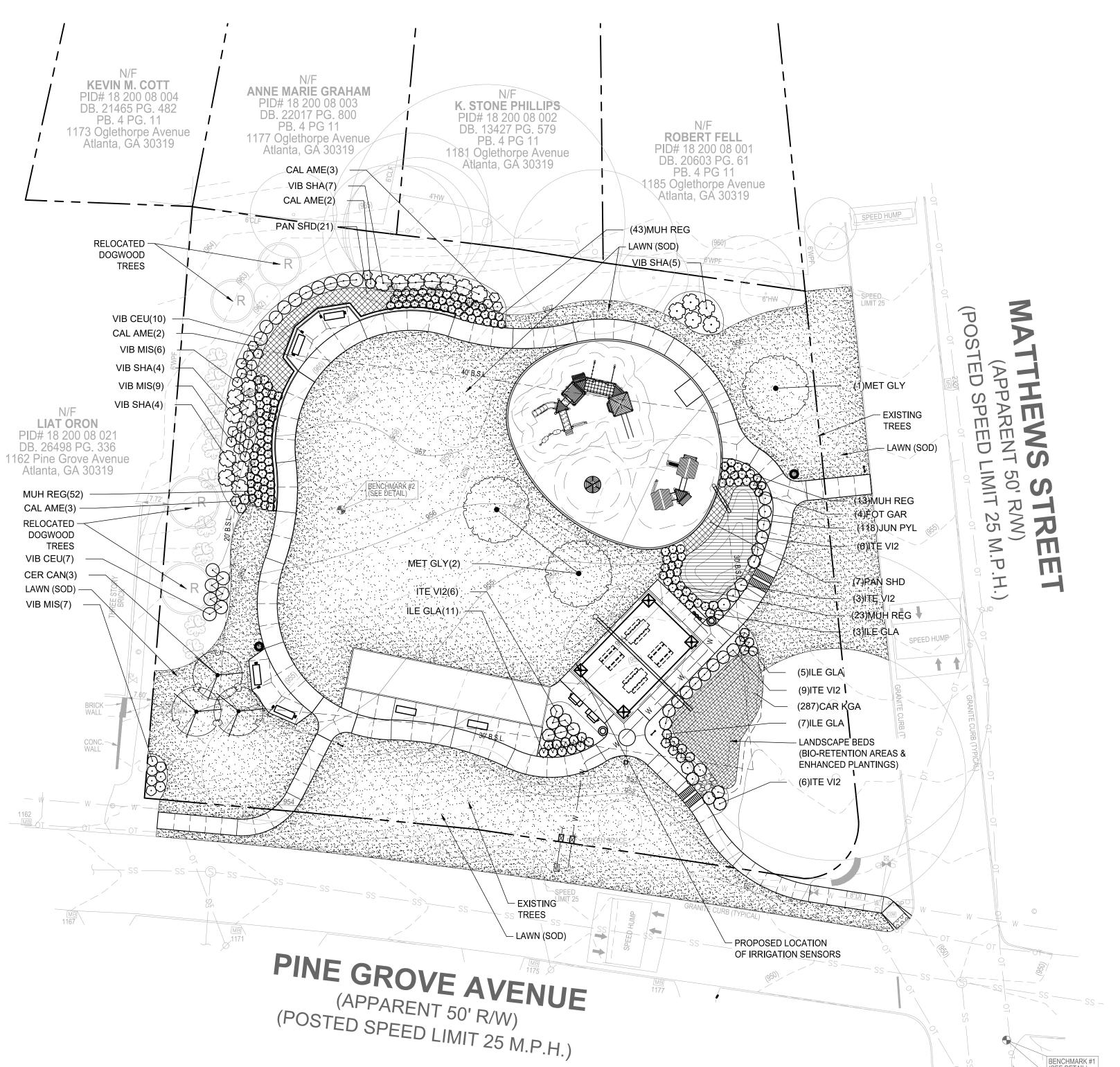
20180-1 03/03/2022

DRAWN BY MTC NTS CHECKED BY DMY SHEET NO.



DEKALB COUNTY WATER DETAILS

C5.10



TREE PROTECTION/REPLACEMENT REQUIREMENTS

TREE UNIT - SITE DENSITY CALCULATIONS:

NOTE: EXISTING SITE EXCEEDS REQUIRED TREE DENSITY AFTER EXISTING TREE REMOVAL

21.7

129.7

196.2

66.5

(ALL PROPERTIES WITHIN THE CITY SHALL MAINTAIN OR ACHIEVE A MINIMUM TREE DENSITY OF 130 DBH INCHES PER ACRE.)

TOTAL DISTURBED AREA = 0.60 ACRES

SPECIMEN TREE UNITS TO BE REMOVED

EXCESS / (SHORTAGE) OF DBH (INCHES):

NON-SPECIMEN TREE UNITS TO BE REMOVED

0.60 ACRES X 130 DBH (INCHES) =

TOTAL DBH (INCHES) REQUIRED:

TREES TO REMAIN

PLANT SCHEDULE

TREES	CODE	COMMON NAME
	MET GLY	DAWN REDWOOD
DECIDUOUS TREES	CODE	COMMON NAME
	CER CAN	EASTERN REDBUD
SHRUBS	CODE	COMMON NAME
\odot	CAL AME	AMERICAN BEAUTYBERRY
0	FOT GAR	DWARF FOTHERGILLA
0	ILE GLA	INKBERRY HOLLY
\odot	ITE VI2	VIRGINIA SWEETSPIRE
•	MUH REG	MUHLY
\odot	VIB MIS	MRS. SCHILLERS DELIGHT WALTER'S VIBURNUM
\bigcirc	VIB SHA	SHASTA DOUBLEFILE VIBURNUM
\odot	VIB CEU	MOONLIT LACE VIBURNUM
GROUND COVERS	CODE	COMMON NAME
	CAR KGA	GOLD FOUNTAINS SEDGE
	JUN PYL	SOFT RUSH
	PAN SHD	SHENANDOAH SWITCH GRASS
SOD	CODE	COMMON NAME

CYN DAC BERMUDA GRASS

GENERAL NOTES: UNDERGROUND UTILITIES:

- 1.1. 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.

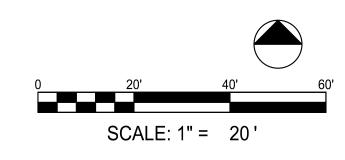
LANDSCAPE NOTES:

- 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.
- 2. 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 EROSION CONTROL SHEET FOR SEEDING.
- 4. PLANTING BEDS SHALL HAVE A THREE (3) INCH SHREDDED HARDWOOD BARK MULCH OVER THE ENTIRE BED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 5. 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.
- 6. 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.
- 7. PLANT GROUNDCOVER & ANNUAL BEDS IN SAME MIXTURE AS SHRUBS. AFTER PLANTING & MULCHING, WATER AREAS TO POINT OF SATURATION.
- M 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
- 9. 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.
- 10. SPRAY TREES AND SHRUBS WITH AN ANTI-DESICCANT IF FOLIAGE IS PRESENT.
- 11. EVERGREEN TREES AND SHRUBS SHALL BE PLANTED IN THE SAME MANNER AS DECIDUOUS MATERIAL IS 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. 14. ALL MATERIALS INSPECTED ON THE SITE AND FOUND TO BE UNACCEPTABLE SHALL BE REMOVED FROM THE SITE ON THE DAY OF INSPECTION.
- 15. FIELD CHANGES MUST BE APPROVED IN WRITING BY THE OWNER OR OWNER'S REPRESENTATIVE. 16. 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.
- 17. ALL PLANT MATERIAL SHALL BE SUPPLIED BY APPROPRIATE SOURCES TO PREVENT UNDUE STRESS OR PROLONGED ACCLIMATIZATION WHICH WOULD INHIBIT PLANT GROWTH.
- 18. 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.
- 19. 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.
- 20. 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.

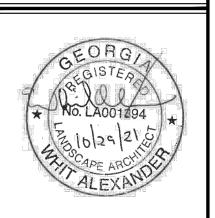
PLANT STOCK NOTES:

- 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.
- 3. ALL UNDERSTORY TREES SHALL BE LIMBED UP AT LEAST 4' WITH A MINIMUM HEIGHT OF 8'. 4. 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.
- 7. EVERGREEN TREES SHALL BE FULL TO GROUND WITH A HEAVY CANOPY AND STRONG CENTRAL LEADER. 8. 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.
- 11. MULCH "VOLCANOES" ARE UNACCEPTABLE. MULCH MUST BE INSTALLED PER DETAILS. 12. INSTALL ALL PLANTS IN ACCORDANCE WITH ALL APPLICABLE DETAILS AND SPECIFICATIONS INCLUDED
- WITHIN THE CONSTRUCTION PACKAGE. 13. ALL PLANTS MUST BE SELECTED, INSTALLED, AND MAINTAINED ACCORDING TO THE SPECIFICATIONS.
- 14. ALL TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM MAJOR UTILITY LINES. CONTACT LANDSCAPE
- ARCHITECT WHERE DISCREPANCIES OCCUR FOR FIELD ADJUSTMENT.





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



X

ANGFORD

<u>Р</u>

OPMENT

JBMITTALS / REVISIONS

IO. DATE DESCRIPTION PERMIT REVISIONS PERMIT REVISIONS 02/18/21

ISSUED FOR BID HEET TITLE

SHEET NO.

LANDSCAPE PLAN

20180-1 03/03/2022 RAWN BY MTC 1" = 20' CHECKED BY DMY

2. TREES OF SAME SPECIES TO BE MATCHED IN UNIFORMITY AND GROWTH. 3. TREE MUST MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)

TREE PLANTING (BROOKHAVEN)

-SCARIFY EDGES PREPARED BACKFILL MIX: NATIVE TOPSOIL + 5-10% COMPOST OR BIOCHAR 2X DIAMETER OF ROOT BALL OR CONTAINER UNDISTURBED SOIL

SHRUB PLANTING (BROOKHAVEN)

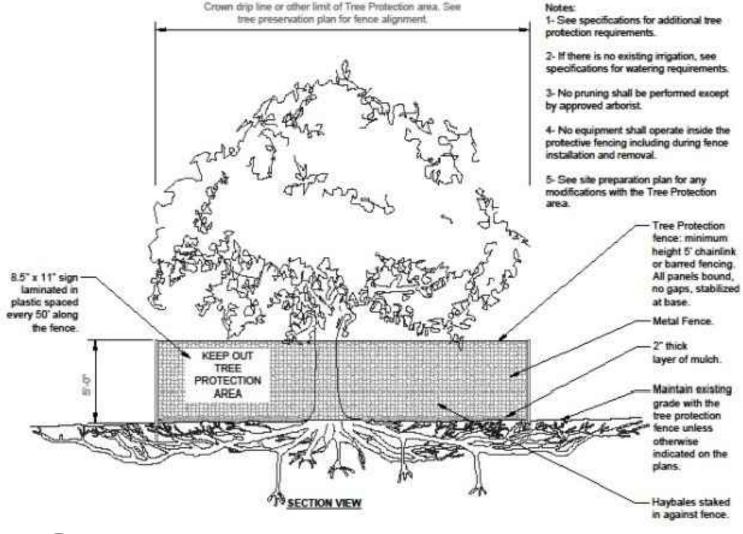
SET ROOT COLLAR 2" to 3" ABOVE FINISHED

TAPER 2" TO 3" MULCH FROM COLLAR TO

EXISTING GRADE, REFER TO LANDSCAPE

NOTES

FOR MULCH TYPE



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

TREE PROTECTION (BROOKHAVEN) SCALE: XX = XX

- 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.

1. ALL SOIL IN LANDSCAPE BEDS TO BE AMENDED TO A DEPTH OF 3" TO 4" WITH NATIVE TOPSOIL WITH 5-10% FINISHED COMPOST / SOLID HUMATES AS THE ORGANIC MATTER. TO BE TILLED INTO THE EXPOSED CLAY SUBSOIL TO A DEPTH OF AT LEAST 3"

SEEDING PROCEDURES (REFER TO TABLES AT RIGHT FOR APPLICATION RATES): 1. 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. 5. 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

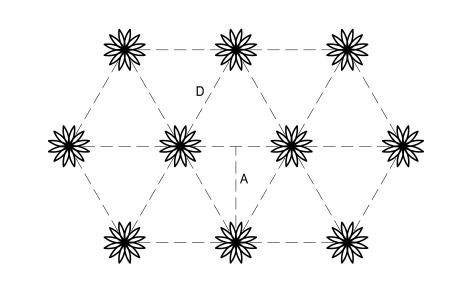
PRESS THE MULCH INTO THE SOIL. 6. WITHIN 24 HOURS AFTER SEEDING AN PLACEMENT OF MULCH, WATER AREA TO A SATURATION DEPTH OF $\frac{1}{2}$ ".

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.

DISTURBED AREA SEEDING



SPACING "D"	ROW WIDTH "A"	PLANTS / S.F.
6" O.C.	5.2"	4.61
8" O.C.	6.9"	2.60
10" O.C.	8.7"	1.66
12" O.C.	10.4"	1.15
15" O.C.	13.0"	0.74
18" O.C.	15.6"	0.51
24" O.C.	20.8"	0.33

NOTES:

1. GROUNDCOVERS AND BULBS TO BE PLANTED ON TRIANGULAR GRID.

2. SEE PLANT SCHEDULES FOR REQUIRED SPACING.

GROUND COVER SPACING

REES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	HEIGHT		
	MET GLY	3	METASEQUOIA GLYPTOSTROBOIDES	DAWN REDWOOD	B&B	2"CAL		
CIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	HEIGHT		
	CER CAN	3	CERCIS CANADENSIS	EASTERN REDBUD	B&B	2" CAL		MATCHED TREES
RUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	SPACING	REMARKS
♦	CAL AME	10	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	CONT	12"-18" HT	36" o.c.	
0	FOT GAR	4	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	CONT	10"-12" HT	30" o.c.	
0	ILE GLA	26	ILEX GLABRA 'COMPACTA	INKBERRY HOLLY	CONT	12"-18" HT	36" o.c.	
\odot	ITE VI2	30	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	CONT	12"-18" HT	48" o.c.	
0	MUH REG	131	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM	MUHLY	CONT	12"-15"	30" o.c.	FULL PLANT
\odot	VIB MIS	22	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLERS DELIGHT WALTER'S VIBURNUM	CONT	18"-24" HT	36" o.c.	
\odot	VIB SHA	20	VIBURNUM PLICATUM TOMENTOSUM 'SHASTA'	SHASTA DOUBLEFILE VIBURNUM	CONT	36" HT	60" o.c.	
\odot	VIB CEU	17	VIBURNUM X `SPG-3-024` TM	MOONLIT LACE VIBURNUM	B&B	12"-18" HT	48" o.c.	
ROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT		SPACING	
	CAR KGA	287	CAREX DOLICHOSTACHYA 'KAGA-NISHIKI'	GOLD FOUNTAINS SEDGE	4" POT		18" o.c.	
<u> </u>	JUN PYL	118	JUNCUS EFFUSUS	SOFT RUSH	4" POT		24" o.c.	
	PAN SHD	28	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	4" POT		48" o.c.	
)D	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT		SPACING	
	CYN DAC	19,020 SF	CYNODON DACTYLON '419 HYBRID'	BERMUDA GRASS	SOD			LAY WITHIN 24 HOURS OF CUTTING, BLUE TAG CERTIFIED, LARGE ROLLS

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.



XX LANGFORD PAF E DEVELOPMENT DOC

JB	JBMITTALS / REVISIONS					
Ο.	DATE	DESCRIPTION				
1	12/13/22	PERMIT REVISIONS				
2	12/13/22	PERMIT REVISIONS				

ISSUED FOR BID

LANDSCAPE DETAILS &

SCHEDULES

PROJECT NO.	DATE
20180-1	03/03/2022
DRAWN BY	SCALE
MTC	NTS
CHECKED BY DMY	
SHEET NO	

L1.10

STRUCTURAL SPECIAL INSPECTION SCHEDULES

THE STATEMENT OF SPECIAL INSPECTION IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROCESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION, TESTING, AND CORRECTION OF AN DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY. JOB SITE SAFETY AND MEAN AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

	SPECIAL INSPECTION SCHEDULE: FABRICATORS					
	VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY			
	VENTITION AND THIS ECTION TASK		CONTINUOUS	PERIODIC		
1.	VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES:					
	A. STEEL CONSTRUCTION — BRIDGES	N				
	B. CONCRETE CONSTRUCTION (INCLUDING REBAR FABRICATION)	N				
	C. WOOD CONSTRUCTION	N				
	D. COLD-FORMED METAL CONSTRUCTION	N				
	E. OTHER CONSTRUCTION	N				

	SPECIAL INSPECTION SCHEDULE: SOILS					
	VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQUENCY			
	VENTITION AND INSPECTION TASK	PROJECT?	CONTINUOUS	PERIODIC		
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	Y		X		
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	Y		X		
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	Y		X		
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Y	X			
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Y		х		

	SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE FOUNDATION ELEMENTS					
	VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS	FREQUENCY			
	VERTICATION AND INSIDERTION TASK	PROJECT?	CONTINUOUS	PERIODIC		
1.	SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE					
	A. ISOLATED SPREAD CONCRETE FOOTINGS	Y		х		
	B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	Y		Х		
	C. CONCRETE FOUNDATION WALLS	Y		Х		

	SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION						
	VERIFICATION AND INSPECTION TASK	APPLICABLE	FREQUENCY				
	VERIFICATION AND INSPECTION TASK	TO THIS PROJECT?	CONTINUOUS	PERIODIC			
1.	INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	Y	x				
2.	INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	Y		Х			
3.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	Y		х			
4.	VERIFYING USE OF REQUIRED DESIGN MIX.	Y		Х			
5.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	Х				
6.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Y		Х			
7.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Y		Х			

STRUCTUAL GENERAL NOTES

CODE INFORMATION

- 1. All construction shall conform to the 2018 INTERNATIONAL BUILDING CODE (IBC) with 2020 GEORGIA STATE AMENDMENTS.
- 2. 2018 IBC referenced standards to be used, as applicable: 2.1. Load Criteria (dead, live, snow, wind, seismic) — ASCE 7—16
- 2.2. Concrete Design ACI 318-14 2.3. Steel Design - AISC 360-10, AISC 341-16, Manual of Steel
- Construction, 15th Edition

GENERAL DESIGN INFORMATION

- 1. Verify existing conditions and dimensions. Immediately notify the engineer of record of any conditions which do not comply with plans and specifications. Structural drawings shall be coordinated with the civil drawings.
- 2. Contract documents shall not be reproduced for use as shop
- 3. The design adequacy of all temporary bracing and shoring is the sole responsibility of the contractor.
- 4. Refer to architectural, mechanical, plumbing, electrical, and civil drawings for locations of miscellaneous items (openings, bent plates, inserts, etc.) affecting structural work.

DESIGN LOADS

- 1. DEAD LOADS:
- 1.1. Assumed backfill density: 115 pcf
- 2. SNOW LOADS: N/A
- 3. WIND DATA (per ASCE 7): N/A
- 4. SEISMIC DATA (per ASCE 7): N/A

SPECIAL INSPECTIONS AND TESTING

1. Per attached schedule, this sheet

STRUCTURAL OBSERVATIONS

1. The Structural Engineer of Record has not been employed to perform periodic visual observation of the structures during construction for general conformance to the contract design

FOUNDATION NOTES

- 1. The foundation design is based on the following assumptions. A geotechnical engineer shall be employed prior to the start of construction to investigate subsurface conditions. If the geotechnical report indicates these assumptions are incorrect, immediately notify the engineer of record.
- 2. Footings are designed to bear on uniform soils capable of supporting 2000 psf. Design assume differential and total settlements are within accepted tolerances for the type of construction used.
- 3. The soil bearing capacity and consistency shall be verified for the foundation limits by a professional geotechnical engineer registered in the project state when the foundation excavations have been carried down to the proposed elevations. The bottom of all footings shall be a minimum of 2'-0" below finished grade, unless noted otherwise
- 4. Where footing excavations are to remain open and may be exposed to rainfall, the excavations shall be undercut and a 3 inch thick mud mat of 2000 psi concrete shall be placed in the bottom to protect the soils.

REINFORCED CONCRETE

- 1. The design of all concrete work shall conform to ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 2. Reinforcing steel shall be deformed bars meeting the requirements of ASTM A615, Grade 60.
- 3. The 28-day compressive strength of all cast-in-place concrete
- 3.1. Footings -3000 psi 3.2. Retaining walls - 4000 psi
- 3.3. Site concrete see Civil Drawings
- 4. All concrete shall be air—entrained.
- 5. Lap splices for reinforcing bars shall be as follows:

Use Std Lap lengths except when horizontal reinforcing has more than 12" of fresh concrete cast below it, then use 1.3 x Std Lap lengths.

- 6. Clear concrete cover for reinforcing steel shall be:
- 6.1. Footings cast against soil or rock 3" 6.2. Footing cast against forms - 2" 6.3. Walls
- 7. Longitudinal reinforcing in footings and walls shall be continuous around corners.
- 8. Mechanical vibrators shall be used to vibrate all concrete.
- 9. Chamfer exposed corners of walls $\frac{3}{4}$ ".
- 10. Concrete shall be sampled and tested in accordance with project specifications. A copy of all concrete compressive strength tests reports shall be kept at the job site at all times for review by the inspector.

BAR SIZE	STD LAP	1.3 x STD LAP
4	24"	32"
5	32"	40"



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

STRUCTURAL ENGINEERS. P.C.

4525 Trousdale Drive Nashville, Tennessee 37204 (o) 615.781.8199 (f) 615.781.4088

EMC Project No. 21273



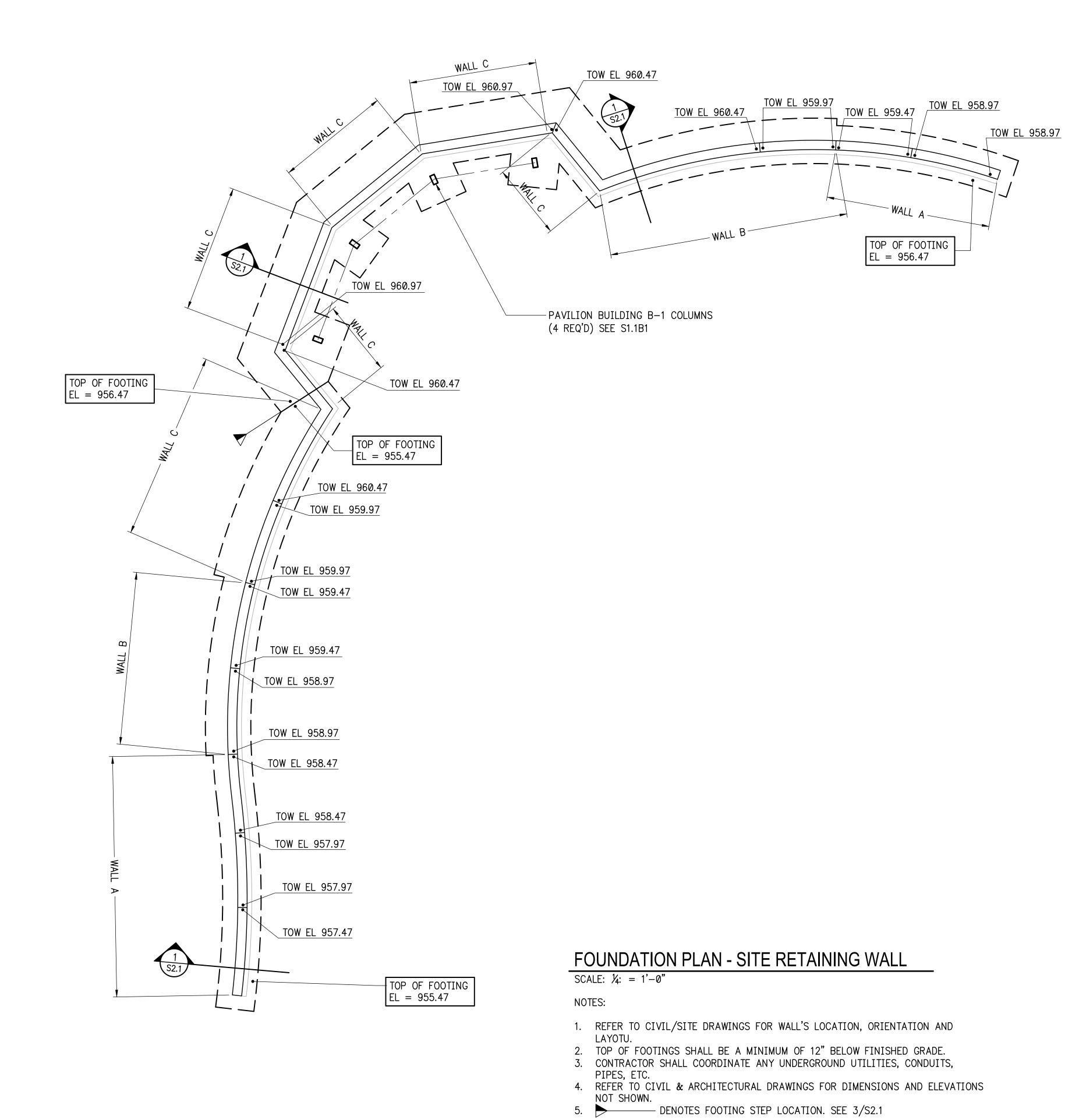
OVEMENT ~ IMPF ORD ANGF

NO. DATE COMMENTS

PERMIT SET

SHEET TITLE SITE RETAINING WALL STRUCTURAL GENERAL NOTES SPECIAL INSPECTION PLAN

20180 DRAWN BY EMC CHECKED BY EMC SHEET NO.





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.

STRUCTURAL ENGINEERS, P.C. 4525 Trousdale Drive Nashville, Tennessee 37204 (o) 615.781.8199 (f) 615.781.4088 EMC Project No. 21273



PARK IMPROVEMENTS

ORK - RETAINING WALL

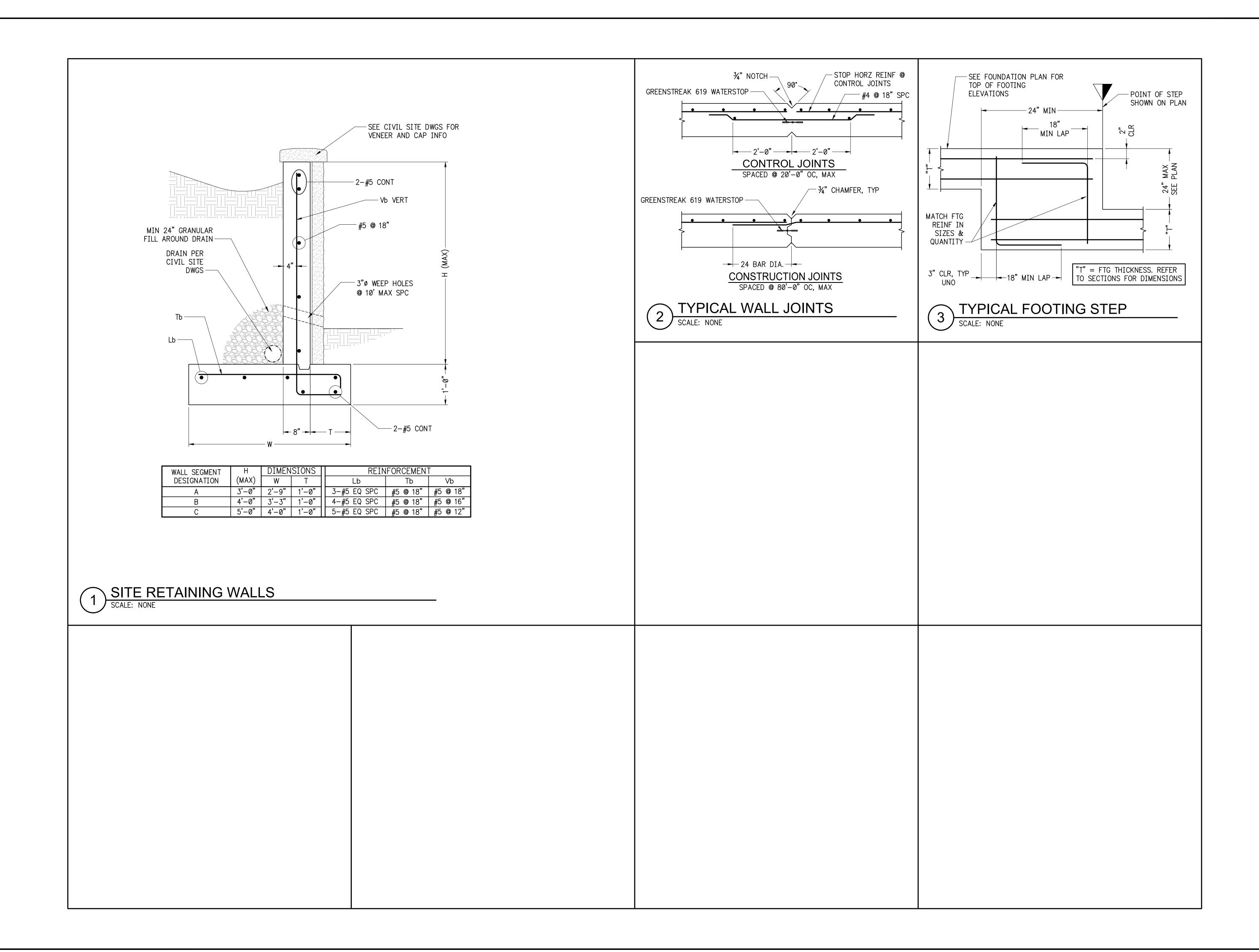
LANGFORD PAF SITE WORK -

REVISIONS NO. DATE COMMENTS

SITE RETAINING WALL FOUNDATION PLAN & SECTION

PROJECT NO. 20180	DATE 10/21/2021
DRAWN BY EMC	SCALE
CHECKED BY EMC	
CLIEFT NO	•

S1.1





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.

STRUCTURAL ENGINEERS, P.C.

4525 Trousdale Drive Nashville, Tennessee 37204 (o) 615.781.8199 (f) 615.781.4088 EMC Project No. 21273



IMPROVEMENTS ETAINING WALL LANGFORD

COMMENTS

SHEET NO.

SITE RETAINING WALL FOUNDATION PLAN & SECTION

DRAWN BY EMC CHECKED BY EMC