FOR

SALEM PARK PARKING LOT

TAX PARCEL:16 044 03 003 LAND LOTS 353, 354, 355, 356, 367, 368, 3RD DISTRICT, 1ST SECTION



STANTEC CONSULTING SERVICES, INC. 229 PEACHTREE ST NE #1900 ATLANTA, GA 30303 (P) - 770-358-8155 CONTACT: STEPHEN HOPPER

OWNER / DEVELOPER

CITY OF STONECREST 3120 STONECREST BLVD #190 STONECREST, GA 30338

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24 HOUR CONTACT

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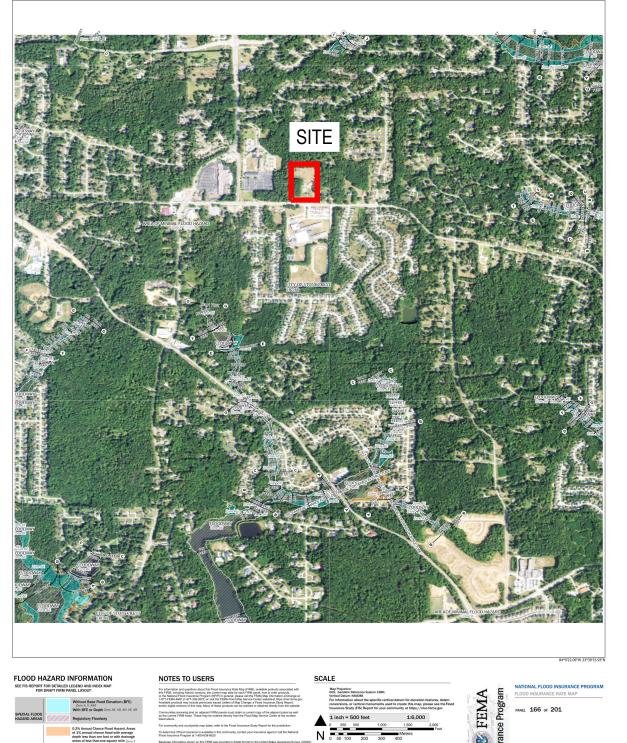
REVIEWING AGENCY

JURISDICTION: CITY OF STONECREST, GA



VICINITY MAP

NOT TO SCALE



FLOOD HAZARD INFORMATION

SEE FIS RIPORT FOR DICTALED LECEND AND INDION MAP
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PROJECT DESCRIPTION:

THE PROJECT IS LOCATED IN STONECREST GA, IN SALEM PARK OFF OF SALEM ROAD. THE SCOPE OF THE PROJECT INCLUDES DEMOLISHING THE EXISTING PARKING LOT, INSTALLING A NEW PARKING LOT WITH 39 SPACES, AND CHANGES TO THE EXISTING DETENTION POND. TO THE NORTH AND EAST IS RESIDENTIAL LOTS. TO THE WEST IS RELIGIOUS INSTITUTIONS AND COMMERCIAL AREAS. TO THE SOUTH IS SALEM ROAD, EDUCATIONAL INSTITUTIONS AND ALSO RESIDENTIAL LOTS.

CONSTRUCTION ENTRANCE LOCATIONS:

1. CONSTRUCTION EXIT 1 LOCATED AT: N33.678628, W84.171820

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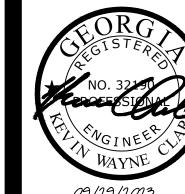
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Permi⁻



Client/Project Logo

Client/Project
SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

tle

COVER SHEET

Project No.
215617717

Revision Sheet Drawing No.

C-000

SITE DATA

BOUNDARY: BOUNDARY SURVEY AS SHOWN BY KCI, DATED JULY 5, 2023

TOPOGRAPHY: FIELD RUN SURVEY BY KCI, DATED JULY 5, 2023
SITE AREA: 11.37 AC
DISTURBED AREA: 1.30 AC

TAX PARCEL ID 16 044 03 003

FLOOD INFO: THIS SITE NOT NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE PER

FEMA FLOO

EXISTING ZONING: R-100

0:\21 2023.3

- 1. TOTAL SITE AREA = 11.37 AC, DISTURBED AREA = 1.30 AC
- 2. ELEVATIONS ARE BASED ON MEAN SEA LEVEL.
- 3. EXISTING CONDITIONS FROM FIELD RUN TOPOGRAPHY & BOUNDARY PREPARED BY KCI, DECEMBER 2, 2021.
- 4. CONTOUR INTERVALS ARE 1.0 FEET.
- 5. ALL TREE SAVE AREAS AND BUFFERS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- CLEARING AND GRUBBING: ON ALL AREAS WHERE GRADING, EXCAVATING AND FILL ARE TO BE DONE, ALL TIMBER BRUSH, STUMPS, ROOTS, RUBBISH AND ORGANIC MATERIALS SHALL BE REMOVED. STUMP HOLES SHALL BE FILLED WITH COMPACTED CLEAN SOIL. A MINIMUM OF SIX INCHES MUST BE
- MUST BE ACCOMPLISHED CONCURRENT WITH THIS PHASE. REFER TO THE CURRENT EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL. 7. ALL EARTHWORK OPERATION SHALL COMPLY WITH REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING, AND SHORING, AND SUBPART O, MOTOR VEHICLES, MECHANIZED EQUIPMENT, AND MARINE OPERATIONS, AND SHALL BE CONDUCTED

CUT BELOW EXISTING GRADE FOR ENTIRE AREA RECEIVING FILL. STORM DETENTION MEASURES

- IN A MANNER ACCEPTABLE TO THE ENGINEER. 8. FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN THREE INCHES IN SIZE, OR OF ANY OTHER
- FOREIGN OBJECTS THAT COULD IMPEDE THE COMPACTION RESULTS. 9. FILL MATERIALS SHALL BE SPREAD EVENLY IN HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE LIFTS OVER THE FULL WIDTH OF FILL AND COMPACTED TO AT LEAST 95% MAXIMUM DRY
- DENSITY BY STANDARD PROCTOR COMPACTION TEST ASTM D698. 10. MAXIMUM CUT OR FILL SLOPES IS 2H:1V.
- GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS INTO STORM INLETS.
- 12. SEE GEOTECHNICAL ENGINEER FOR RECOMMENDATIONS CONCERNING PROPER PLACEMENT AND COMPACTION OF STRUCTURAL FILL.
- 13. THE SITE IS NOT LOCATED WITHIN ZONE A 100 YEAR FLOOD ZONE PER FEMA F.I.R.M. MAP 13089C0166J, EFFECTIVE MAY 16 2013.
- 14. GRADE ALL HANDICAP RAMPS 12H:1V SLOPE MAXIMUM TO TOP OF CURB.
- 15. ALL SPOT ELEVATIONS ARE FINISHED GRADE ELEVATIONS UNLESS OTHERWISE NOTED. 16. STORM SEWER LINE SHALL BE AS FOLLOWS: CMP, FULLY COATED PER ASTM A444 OR ALUMINIZED TYPE II WITH REROLLED ENDS & BANDS. RCP, CLASS III PER AASHTO M170 AS INDICATED. UNLESS
- OTHERWISE NOTED. 17. ALL CATCH BASINS ARE TO BE PER GDOT STANDARDS.
- 18. THE INSTALLATION OF ALL EROSION CONTROL MEASURES AND DETENTION FACILITIES SHOULD BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 19. COMPACTION OF ALL FILL MATERIAL BETWEEN THE FRONT AND REAR BUILDING LINES TO BE 95% STANDARD PROCTOR MUST BE CERTIFIED BY GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF CURB. THIS CERTIFICATION WILL BE SUBMITTED TO THE CHIEF OF DEVELOPMENT INSPECTIONS. LOTS WITH TWO (2') OF FILL OR GREATER, AS DELINEATED ON THE CONSTRUCTION PLANS WILL REQUIRE A COMPACTION CERTIFICATION PRIOR TO ISSUANCE OF BUILDING PERMITS. THE ENGINEER WILL ALSO PROVIDE A LETTER LISTING THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION. THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION WILL BE INDICATED ON THE FINAL RECORDED PLAT.
- 20. SATISFACTORY SOILS FOR STRUCTURAL FILL ARE AS FOLLOWS: SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS; FREE FROM ROCK OR GRAVEL LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. LIQUID LIMIT: 40. PLASTICITY INDEX: A) UPPER FOUR FEET UNDER A BUILDING AND PAVEMENTS AND TWENTY FEET OUTSIDE: LESS THAN 12. B) BELOW UPPER FOUR FEET UNDER A BUILDING AND PAVEMENTS: LESS THAN 20. C) AREAS TWENTY FEET OUTSIDE BUILDING AND PAVEMENT AREAS: LESS THAN 30.

EROSION CONTROL NOTES:

- 1. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATION, LATEST
- 2. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS TO PREVENT THE RELEASE OF SILT FROM THE SITE.
- 3. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- 4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OFF SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
- 5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, 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 INSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- 6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED
- PRIOR TO ANY OTHER CONSTRUCTION. 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 CONTROLS WILL BE MAINTAINED UNTIL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- 9. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 10. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE
- CONSTRUCTED. 11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. IF SEDIMENT PONDS ARE DEEMED NECESSARY, CONTRACTOR SHALL CLEAN OUT EACH AS REQUIRED BY ENGINEER OR GWINNETT COUNTY INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH
- WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP
- OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. 13. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN A POSSIBILITY OF ALL CONSTRUCTION BEING STOPPED ON JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO CURRENT STDS.
- 14. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.
- ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION, A MINIMUM OF 4.5 SQUARE YARDS OF 50 LB STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS IMMEDIATELY UPON THE INSTALLATION OF PIPES AND DRAINAGE DITCHES.
- 16. SILT BARRIERS TO BE PLACED DOWNSTREAM OF ALL FILL SLOPES.

UTILITY NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE SPECIFICALLY RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MIGHT HAVE EXISTING UTILITIES ON SITE TO DETERMINE IF ANY EXIST AND HOW TO HANDLE. ENGINEER IS NOT RESPONSIBLE FOR EXISTENCE OR LOCATION OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR COORDINATING WITH THEM REGARDING UTILITY LOCATIONS, CONSTRUCTION AND SCHEDULES.
- 3. ALL CONNECTIONS TO EXISTING UTILITIES AND ALL UTILITY INSTALLATIONS SHALL BE IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES
- 4. NEW TESTING IS REQUIRED FOR UTILITIES PER CITY OF STONECREST STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED, TO TV INSPECTION AND PRESSURE TESTING FOR SANITARY SEWER LINES AND MANHOLES. PRESSURE TESTING AND RECHLORINATION IS REQUIRED FOR THE WATER SYSTEM.
- ALL TESTING SHALL BE PER CITY OF STONECREST STANDARDS. 5. SANITARY SEWER SHALL BE AS INDICATED: EITHER PVC, SDR 26 PER ASTM D3034;OR CLASS 50 DUCTILE IRON PIPE PER AWWA C150, PER CITY OF STONECREST SPECIFICATIONS. 6" OR 8" WATER PIPE SHALL BE DUCTILE IRON CLASS 50 AWWA C151 UNLESS OTHERWISE SPECIFIED AND SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT CITY OF STONECREST STANDARDS. WATER LINES SMALLER THAN 6" SHALL BE EITHER COPPER TUBE TYPE "K" (SOFT) PER ANSI B16.22.
- FOR GRADING AND DRAINAGE INFORMATION, SEE GRADING AND DRAINAGE PLAN. 7. EXISTING SERVICES SHOWN WERE OBTAINED FROM AS BUILTS BY OTHERS AND ARE TO BE FIELD
- VERIFIED BY THE CONTRACTOR. 8. AT COMPLETION OF SEWER AND WATER CONSTRUCTION, ALL MANHOLES, VALVE BOXES, METERS AND APPURTENANCES SHALL BE SET FOR PROPER FINISH GRADE AND SHALL BE NOTICEABLY STAKED AND FLAGGED. SITE UTILITY SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE
- TO THE ABOVE ITEMS UNTIL SYSTEM IS ACCEPTED BY OWNER. 9. HYDRANTS AND MAINS SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FORTY EIGHT INCHES (48") OF COVER OVER THE PROPOSED WATER MAINS AND EIGHTEEN INCHES (18") OF VERTICAL SEPARATION FROM OTHER UTILITIES. WHERE LIMITED ROOM EXISTS ABOVE STORM OR SANITARY SEWERS, WATER LINE SHALL BE CONSTRUCTED UNDERNEATH AT THOSE LOCATIONS, MAINTAINING THE EIGHTEEN INCH (18")SEPARATION REQUIREMENT. ALL UTILITY REQUIREMENTS WILL BE COMPLIED WITH AT CROSSINGS. ADDITIONALLY, A 10' HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATER AND SANITARY SEWER LINES.
- 11. ALL SANITARY SEWER DUCTILE IRON PIPE SHALL HAVE PUSH-ON JOINTS PER AWWA C111.
- RIGID PIPE BEDDING SHALL BE PER ASTM C-1479, FLEXIBLE PIPE BEDDING PER ASTM D-2321. 13. IRRIGATION WATER SERVICE SHALL BE IN METER BOX WITH BACKFLOW PREVENTOR PER
- JURISDICTIONAL REQUIREMENTS.
- 14. SEE DETAIL SHEETS FOR UTILITY DETAILS.
- 15. ALL WATER LINE CONSTRUCTION SHALL BE TO CITY OF STONECREST SPECIFICATIONS. 16. ALL BACKFILL IN STREETS AND PARKING AREAS FOR PUBLIC SANITARY SEWER MAINS SHALL BE
- APPROVED BANK-RUN SAND OR GRAVEL OR CRUSHED STONE FREE FROM LARGE STONES AND CONTAINING NOT MORE THAN 10% BY WEIGHT OF LOAM OR CLAY.
- 17. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS SET FORTH IN CITY OF STONECREST DEVELOPMENT REGULATIONS FOR ALL UTILITY INSTALLATIONS.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS
- THAT ARE PERTINENT TO THIS WORK. 2. AREAS OUTSIDE THE PROJECT LIMITS ARE DESIGNATED AS RESTRICTED AREAS. THE
- CONTRACTOR'S FORCES ARE PROHIBITED FROM ENTERING RESTRICTED AREAS AT ANY TIME, UNLESS SPECIFICALLY AUTHORIZED BY THE ADJACENT OWNER.
- 3. THE CONTRACTOR SHALL CONTROL DUST AND DEBRIS FROM HIS OPERATION TO A LEVEL ACCEPTABLE TO THE COUNTY AT ALL TIMES. THE CONTRACTOR SHALL HAVE ON THE PROJECT SITE: VACUUM SWEEPERS, WATERING TRUCKS, AND OTHER EQUIPMENT NECESSARY TO CONTROL DUST AT ALL TIMES. ALL METHODS FOR CONTROLLING DUST SHALL BE SUBJECT TO THE COUNTY'S APPROVAL. FAILURE TO PROPERLY CONTROL DUST OR TO RESPOND TO ANY REQUEST TO DO SO WILL RESULT IN CONSTRUCTION ACTIVITIES BEING STOPPED.
- 4. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA AS SHOWN ON THE PHASED EROSION CONTROL PLAN.
- 5. THE ROADS USED BY THE CONTRACTOR FOR ACCESS OR HAULING SHALL BE KEPT CLEAN AND ACCESSIBLE TO ALL OTHER TRAFFIC FOR THE ENTIRE DURATION OF THE PROJECT. HAUL TRUCKS MUST BE COVERED AND ANY SPILLAGE OR DEBRIS BUILDUP PROMPTLY REMOVED FROM ALL HAUL ROUTES ON AIRPORT AND PUBLIC ROADS.

MATERIAL NOTES:

1. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.

TRAFFIC CONTROL NOTES:

- 1. THIS WORK CONSISTS OF PROVIDING MAINTENANCE OF TRAFFIC CONTROL DEVICES INCLUDING FLAGMEN TO INSURE ROADWAY SAFETY BY PROVIDING FOR SAFE ORDERLY AND PREDICTABLE MOVEMENT OF TRAFFIC THROUGH ALL ADJACENT PUBLIC ROADS AND THE AREAS TO BE CONSTRUCTED. ALL TRAFFIC CONTROLS DEVICES SHALL BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, STATE AND LOCAL AGENCIES, OR AS SHOWN BY THE CONSTRUCTION DRAWINGS, WHICHEVER IS MORE STRINGENT.
- 2. CONTRACTOR SHALL SUBMIT TO ENGINEER FOR HIS APPROVAL A COMPREHENSIVE PLAN DETAILING HOW TRAFFIC WILL BE MAINTAINED UNDER THIS CONTRACT. CONSTRUCTION AFFECTING TRAFFIC SHALL NOT COMMENCE UNTIL THIS PLAN IS APPROVED.
- 3. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL REQUIRED DEVICES, INCLUDING BUT NOT LIMITED TO; SIGNAGE, STRIPING, FLAGGER LOCATIONS, BARRELS, AND CONES TO MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) TAPER LENGTHS, DISTANCES BETWEEN TRAFFIC CONTROL MEASURES, AND DIMENSIONS BETWEEN SIGNS MUST BE SHOWN.



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Revision		Ву	Appd	YYYY.MM.D
Issued		Ву	Appd	YYYY.MM.D
File Name: 17717C-001GN				2023.09.29
	Dwn.	Dsgn.	Chkd.	YYYY.MM.D

Permit/Seal



Client/Project Logo

Client/Project SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

GENERAL NOTES

Project No. 215617717

Revision Sheet

Drawing No.

Scale

ORIGINAL SHEET - ARCH D

UTILITY LEGEND LEGAL / BOUNDARY LEGEND **EXISTING** DESCRIPTION PROPOSED **EXISTING** DESCRIPTION PROPERTY BOUNDARY STORM SEWER ---->>----->>----LOT LINE ---->---->---- SANITARY SEWER EASEMENT LINE ------ FM ------FORCEMAIN _____ _____ WATERMAIN SETBACK LINE ______ RIGHT OF WAY LINE _____ IRR _____ IRRIGATION LINE SECTION LINE UNDERGROUND GAS LINE —— G —— G —— QUARTER LINE UNDERGROUND COMMUNICATION LINE —— F/O——— F/O—— UNDERGROUND FIBER OPTIC LINE UNDERGROUND ELECTRIC LINE ——UE ———UE —— SITE / MISC. LEGEND ____OU____ OVERHEAD UTILITY LINE DRAINTILE PROPOSED **EXISTING** DESCRIPTION PIPE CASING RAILROAD TRACK SANITARY MANHOLE FENCE LINE _____x____x____ ____x___x___ CLEANOUT **GUARD RAIL** · o o o o o \bigcirc STORM SEWER MANHOLE RETAINING WALL STORM SEWER INLET BUILDING FLARED END SECTION DITCH CENTERLINE ______ **CURB STOP** WETLAND BOUNDARY ----- WET-----HYDRANT अप्रेर अप्रेर अप्रेर अप्रेर अप्रेर अप्रेर अप्रेर WETLAND WATER VALVE SIGN -0-• REDUCER **BOLLARD/POST** FIRE DEPARTMENT CONNECTION UTILITY POLE WATER WELL ANCHOR CABLE **AUTO SPRINKLER** LIGHT POLE POST INDICATOR VALVE DECORATIVE LIGHT WATER METER ANTENNA SPRINKLER HEAD BENCH IRRIGATION CONTROL VALVE AIR CONDITIONER GAS MARKER SOIL BORING GAS VALVE MAILBOX **GAS METER** HANDICAP PARKING SPACE **COMMUNICATIONS PEDESTAL** RAILROAD CROSSING SIGNAL TELEPHONE MANHOLE STOP LIGHT ELECTRICAL PEDESTAL HAND HOLE # ELECTRIC METER PARKING COUNT TRANSFORMER ELECTRIC MANHOLE GRADING / TOPOGRAPHY LEGEND VEGETATION / LANDSCAPING LEGEND **EXISTING** DESCRIPTION <u>PROPOSED</u> -----MINOR CONTOUR **DESCRIPTION** — — 900 — — MAJOR CONTOUR TREE LINE **GRADING LIMITS** STUMP \Box **CONSTRUCTION LIMITS** SHRUB/PERENNIAL PLANT <u>(9XX.XX)</u>—× SPOT ELEVATION 1.00% SURFACE GRADE & FLOW DIRECTION \odot 3.0:1 DECIDUOUS TREE SURFACE SLOPE (H:V) & FLOW DIRECTION CONIFEROUS TREE PAVEMENT LEGEND ORNAMENTAL TREE

PROPOSED

EXISTING

ORIGINAL SHEET - ARCH D

DESCRIPTION

EDGE OF PAVEMENT / GRAVEL

ROAD CENTERLINE

CURB AND GUTTER

TIP-OUT CURB AND GUTTER

CONCRETE PAVEMENT

HEAVY DUTY CONCRETE PAVEMENT

BITUMINOUS PAVEMENT

LIGHT DUTY BITUMINOUS PAVEMENT

HEAVY DUTY BITUMINOUS PAVEMENT

GRAVEL SURFACE

REMOVALS LEGEND

DESCRIPTION <u>PROPOSED</u> REMOVE EXISTING BUILDING H H H H H H CLEAR AND GRUB AREA ×× ×× REMOVE TREE/SHRUB/STUMP SAWCUT & REMOVE CURB AND GUTTER AT HEADER CURB LOCATION REMOVE & SALAVGE SIDEWALK PAVERS REMOVE ASPHALT PAVEMENT REMOVE CONCRETE PAVEMENT SAWCUT PAVEMENT

PROPOSED

-->>- -->>-

PROPOSED

V V V V V

ROCK MULCH

WOOD MULCH

SEED

SOD

75' IMPERVIOUS

SETBACK

CREEK SETBACK

WETLAND LIMITS

CREEK CENTERLINE

WETLAND

WATER

_____• • • —____

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FROSION CONTROL LEGEND

ERUSION CONTR	OL LEGEND
DESCRIPTION	PROPOSED
ROCK CONSTRUCTION EXIT	
EROSION CONTROL BLANKET	
TURF REINFORCEMENT MAT	
SEED	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
SOD	
RIPRAP	
VEGETATED RIPRAP	
SILT FENCE	
FLOTATION SILT CURTAIN	
BIOLOG [OR DITCH CHECK]	
INLET PROTECTION	
HAY BALES	· · · · · · · · · · · · · · · · · · ·
CULVERT PROTECTION	
TREE PROTECTION	(<u>Ô</u>)
TEMPORARY DIVERSION DITCH	
TEMPORARY SEDIMENT TRAP DISCHARGE	—

ABBREVIATIONS

BUTTERFLY VALVE OC ON CENTER BW BOTTOM OF WALL (AT GRADE) OCS OUTLET CONTROL STRUCTURE BVC BEGIN VERTICAL CURVE MAX MAXIMUM BOT BOTTOM MH MANHOLE CB CATCH BASIN MATCH EXISTING CBMH CATCH BASIN MANHOLE MIN MINIMUM CO CLEANOUT NORMAL WATER LEVEL CF CUBIC FEET OFF OFFSET CFS CUBIC FEET PER SECOND POINT OF CURVATURE CENTERLINE POINT OF INTERSECTION CL CLASS PROPERTY LINE CMP CORRUGATED METAL PIPE PROPOSED CY CUBIC YARDS POINT OF TANGENCY DIP DUCTILE IRON PIPE PVC POLYVINYL CHLORIDE EG EXISTING GRADE POINT OF VERTICAL INTERSECTION PVI EMERGENCY OVERFLOW EOF RADIUS **ELEVATION** RCP REINFORCED CONCRETE PIPE RIM STRUCTURE TOP OF CASTING/GRATE EP EDGE OF PAVEMENT ROW RIGHT OF WAY END VERTICAL CURVE EVC EX EXISTING SQUARE FEET F/F FACE TO FACE SANITARY SEWER FINISHED FLOOR ELEVATION SSMH SANITARY SEWER MANHOLE STORM SEWER FLARED END SECTION FES FORCEMAIN STA STATION FM STD STANDARD FNH FRONT NOZZLE OF HYDRANT STMH STORM SEWER MANHOLE FINISHED GRADE FLOW LINE SIDEWALK SW SQUARE YARDS GATE VALVE TOP OF CURB GALLONS PER MINUTE HIGH-DENSITY POLYETHYLENE TNH TOP NUT OF HYDRANT HP HIGH POINT TOE TOE OF DITCH TOP TOP OF DITCH HYD HYDRANT HIGH WATER LEVEL TOP OF PIPE INVERT TOP OF WALL LINEAL FEET TYP TYPICAL LFE LOW FLOOR ELEVATION VCP VITRIFIED CLAY PIPE LOW POINT WM WATERMAIN

LVC LENGTH OF VERTICAL CURVE



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Revision		Ву	Appd	YYYY.MM.I
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File Name: 17717C-001GN				2023.09.2
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Permit/Seal



Client/Project Logo

Client/Project SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

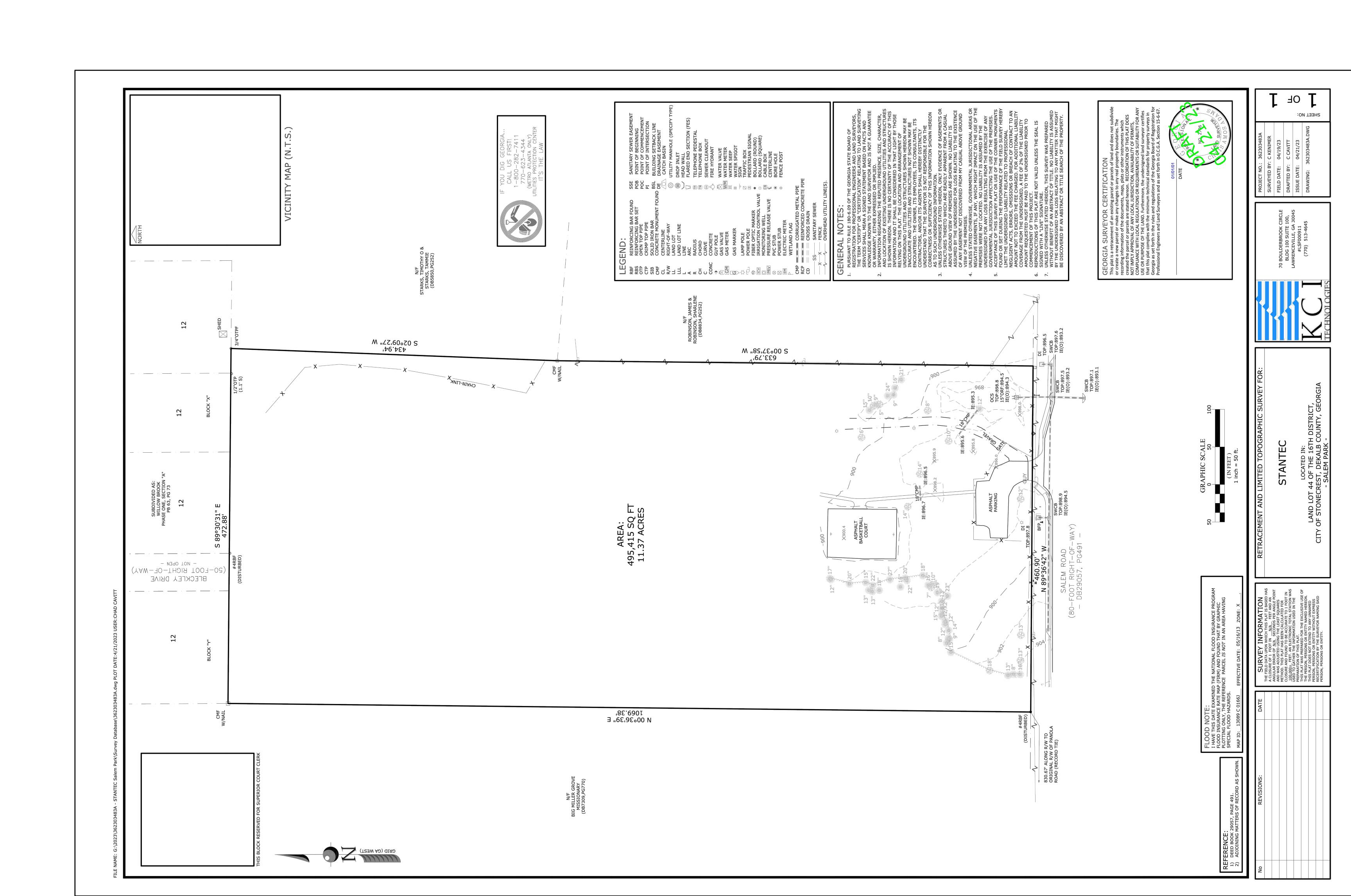
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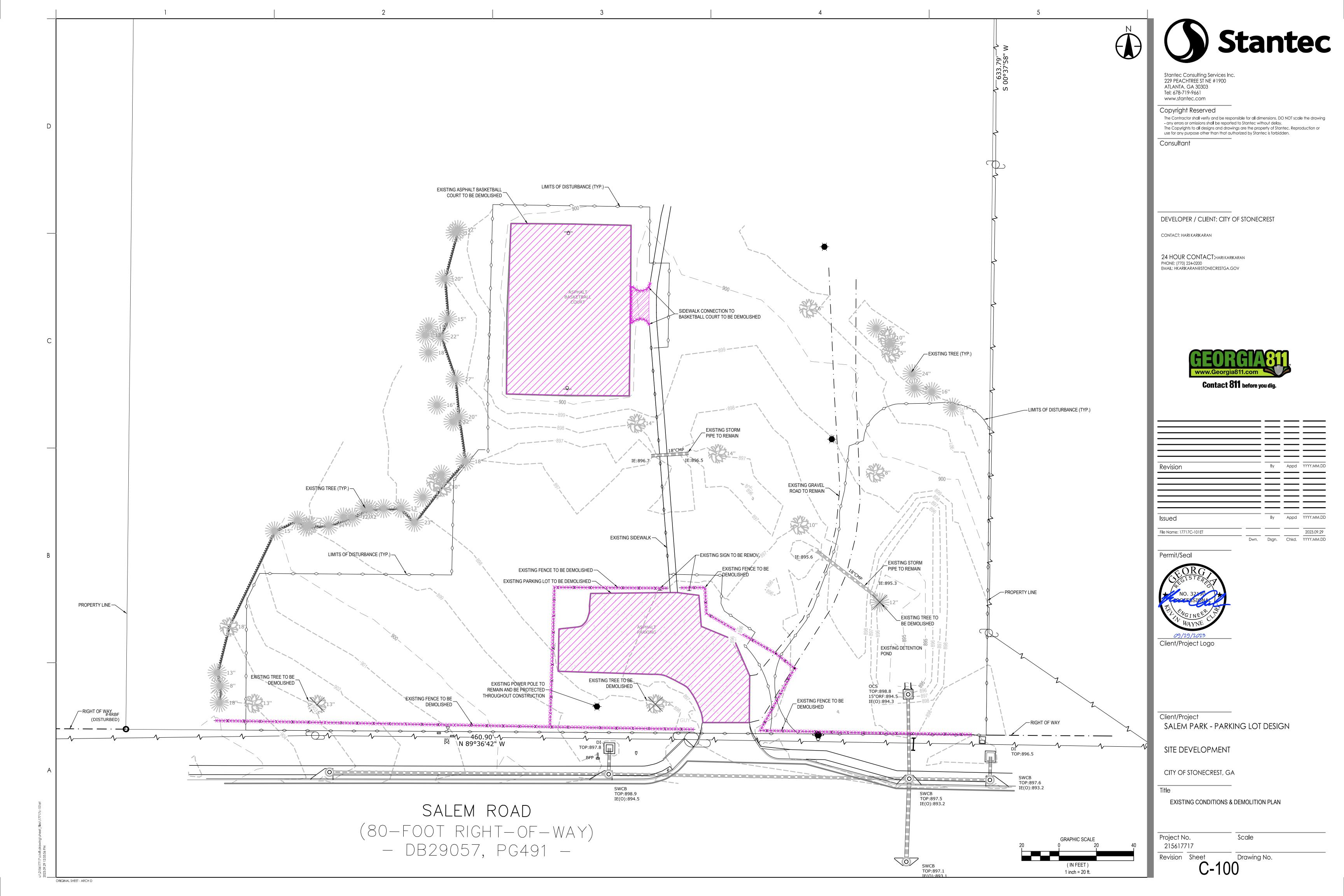
Revision Sheet

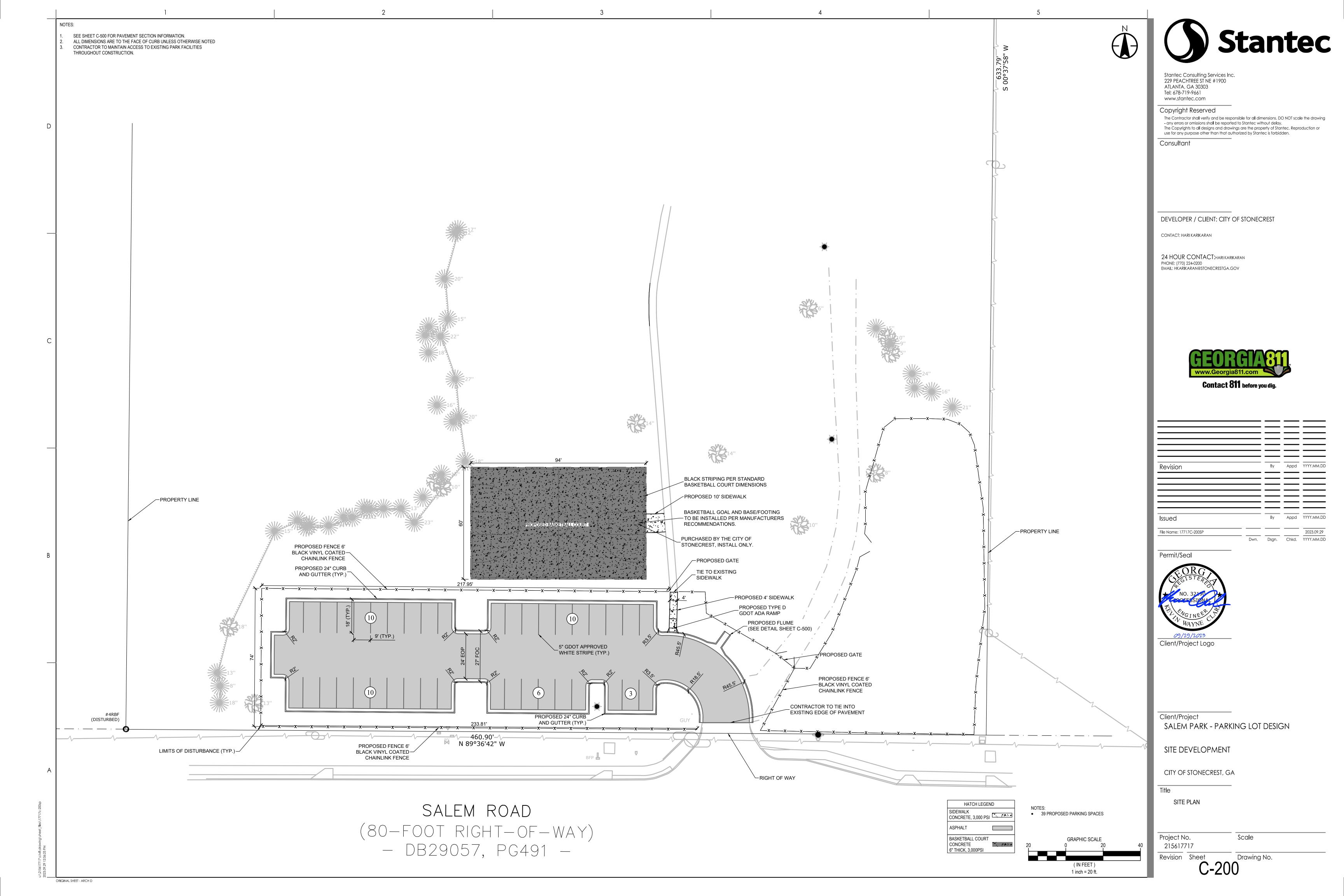
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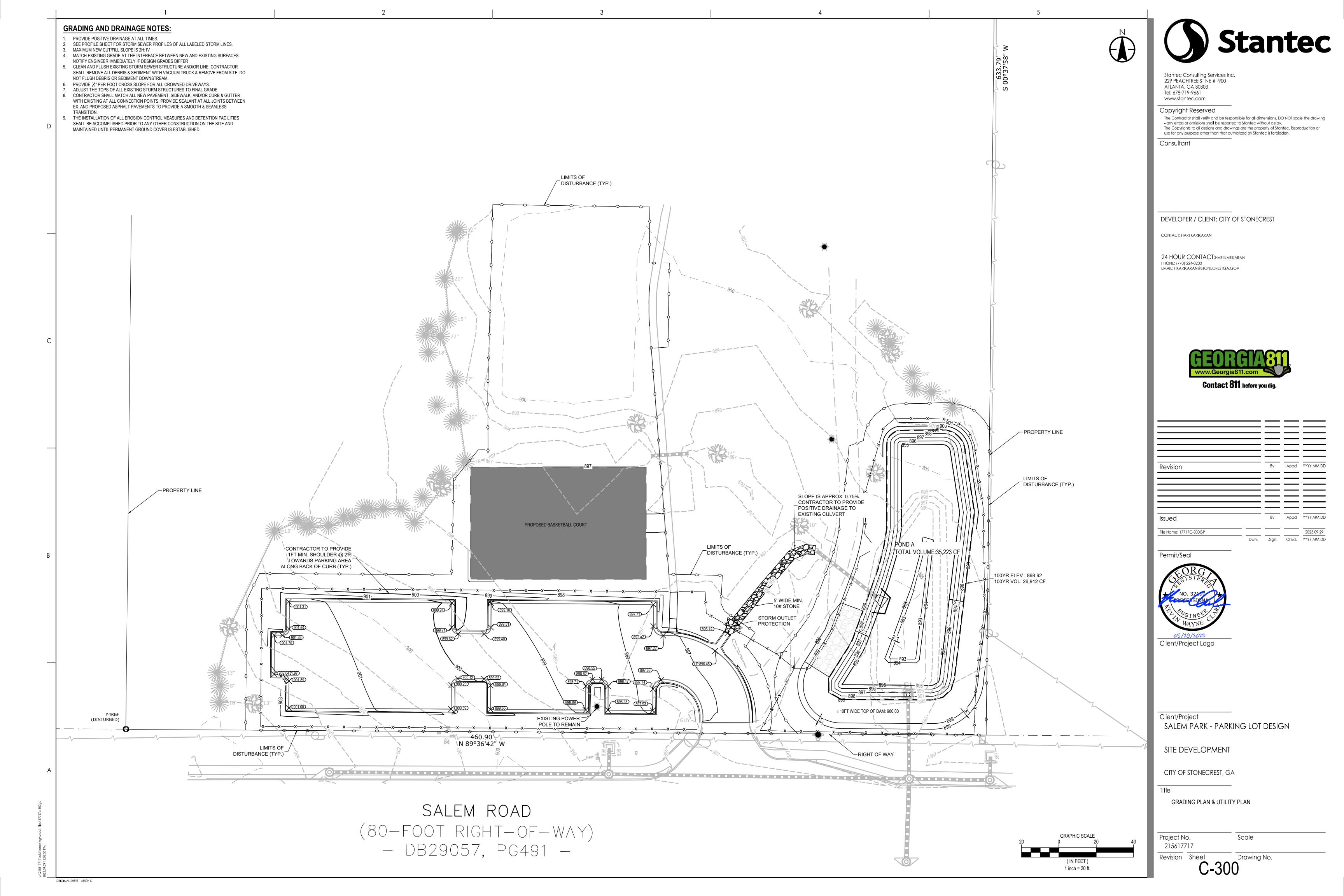
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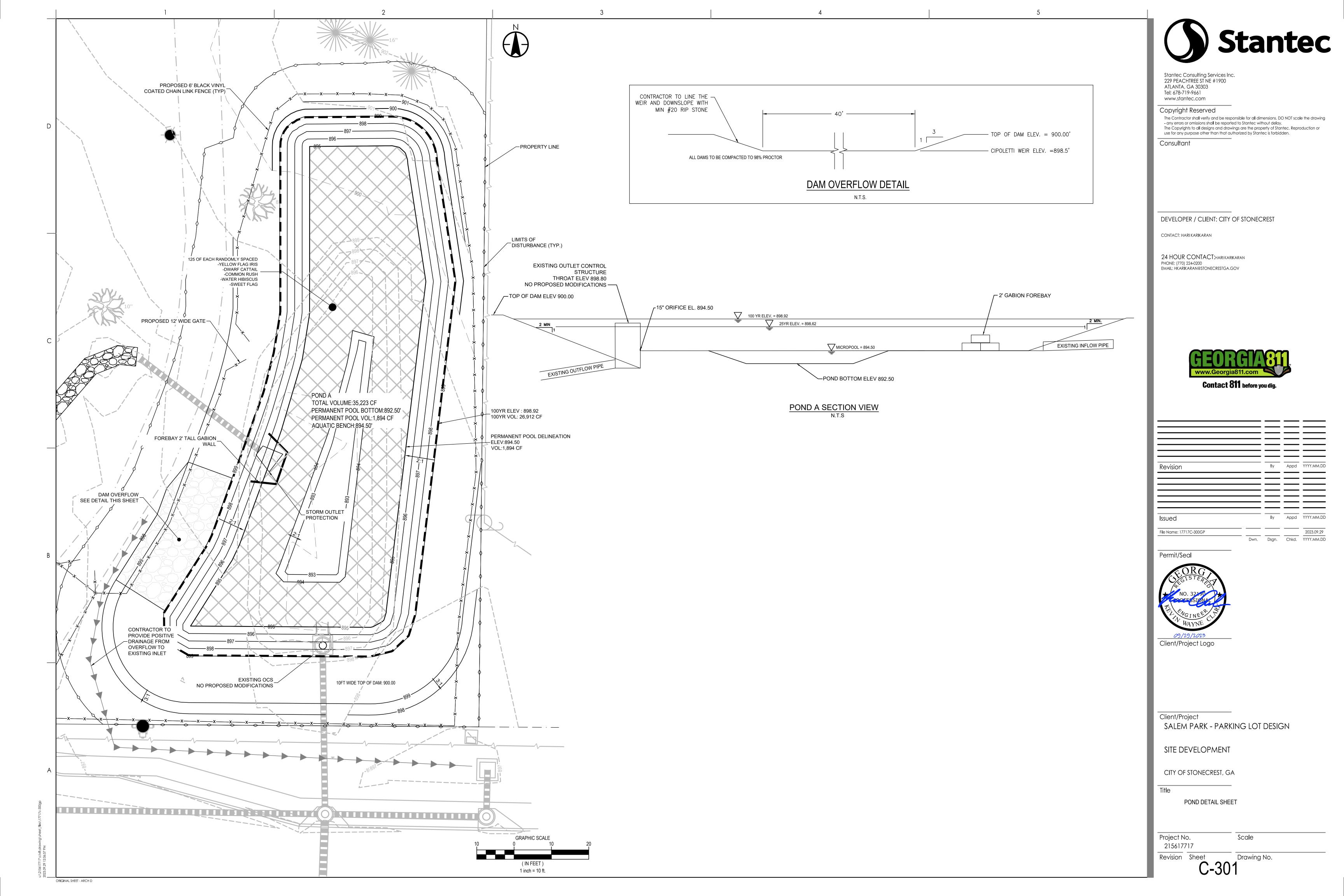
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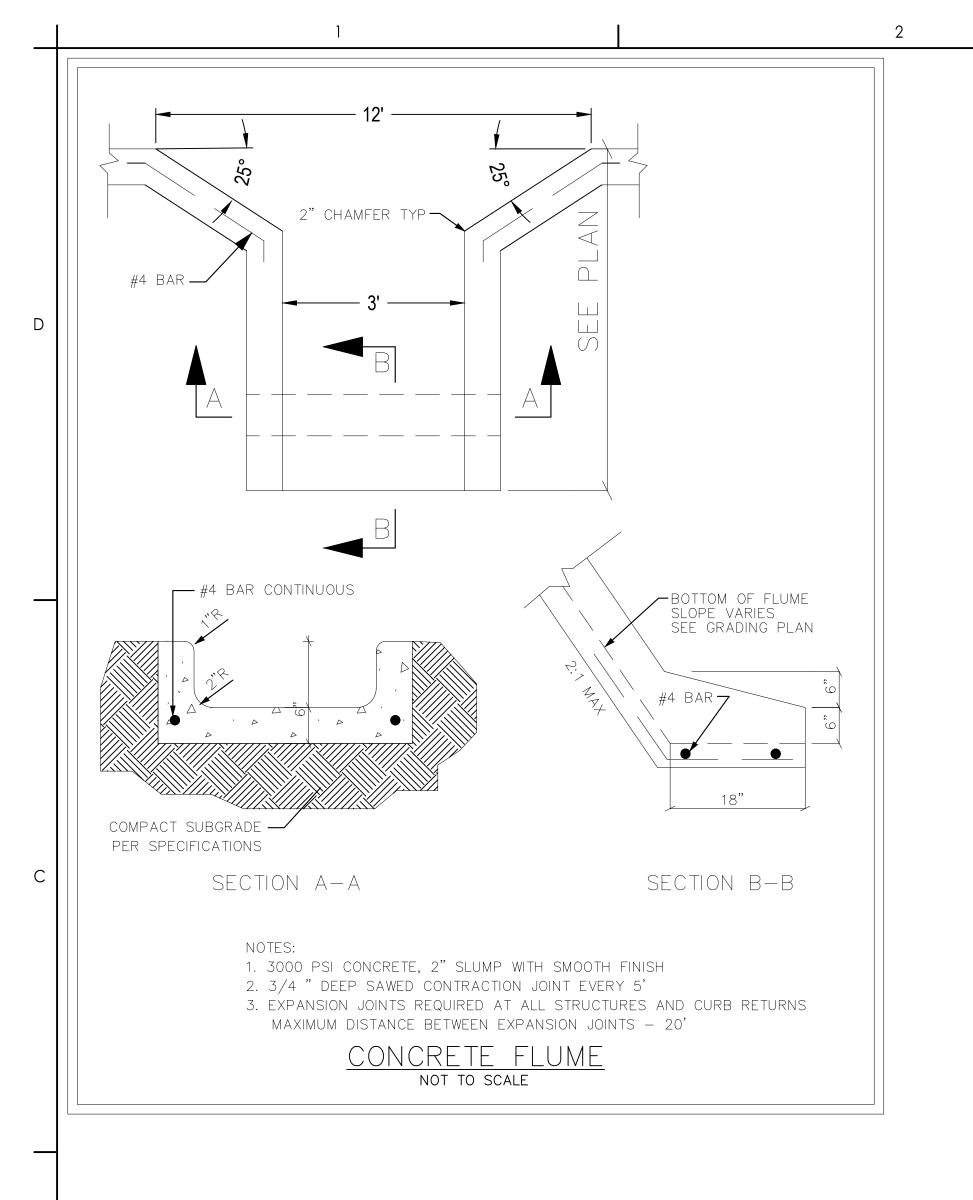




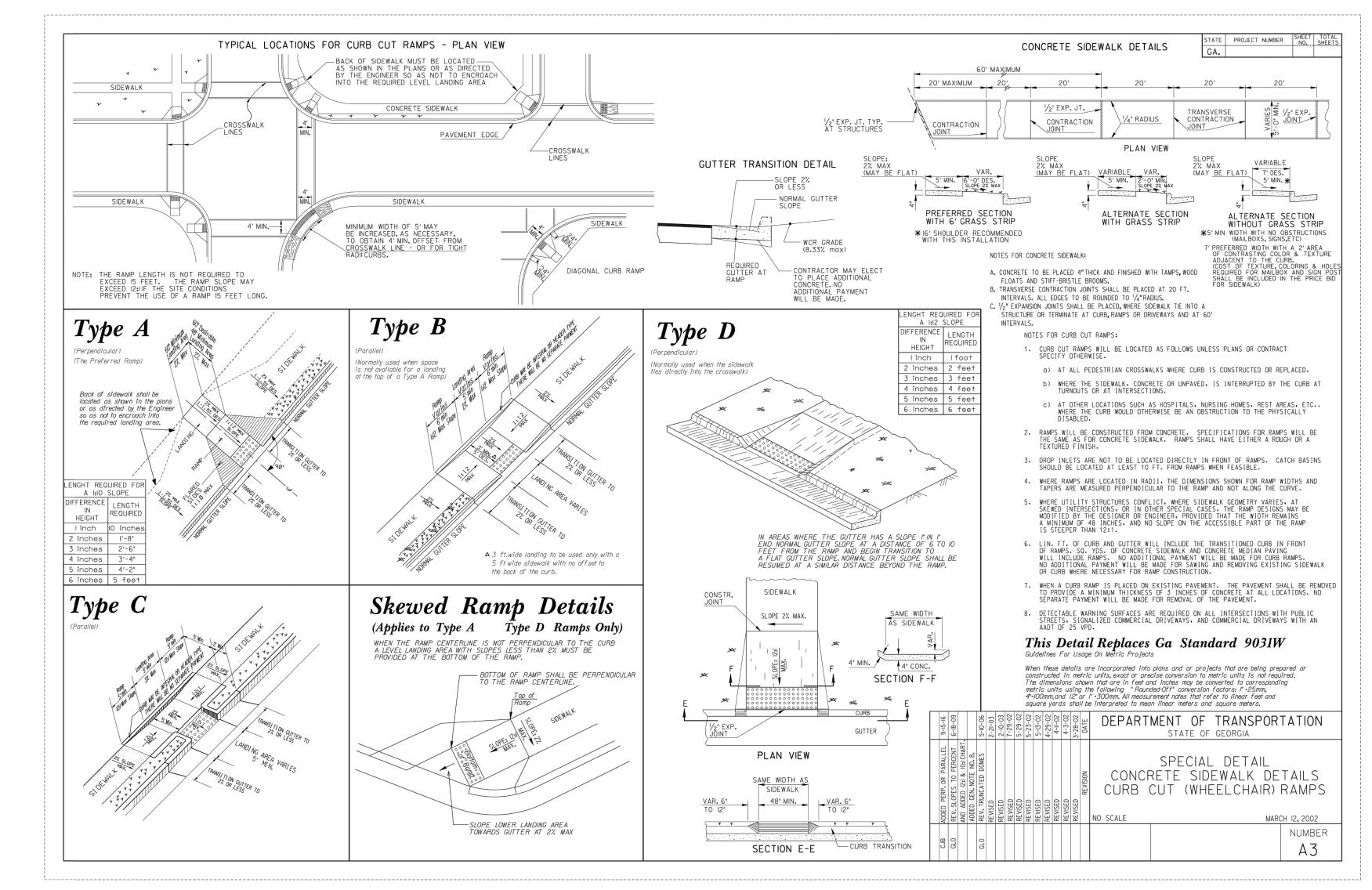


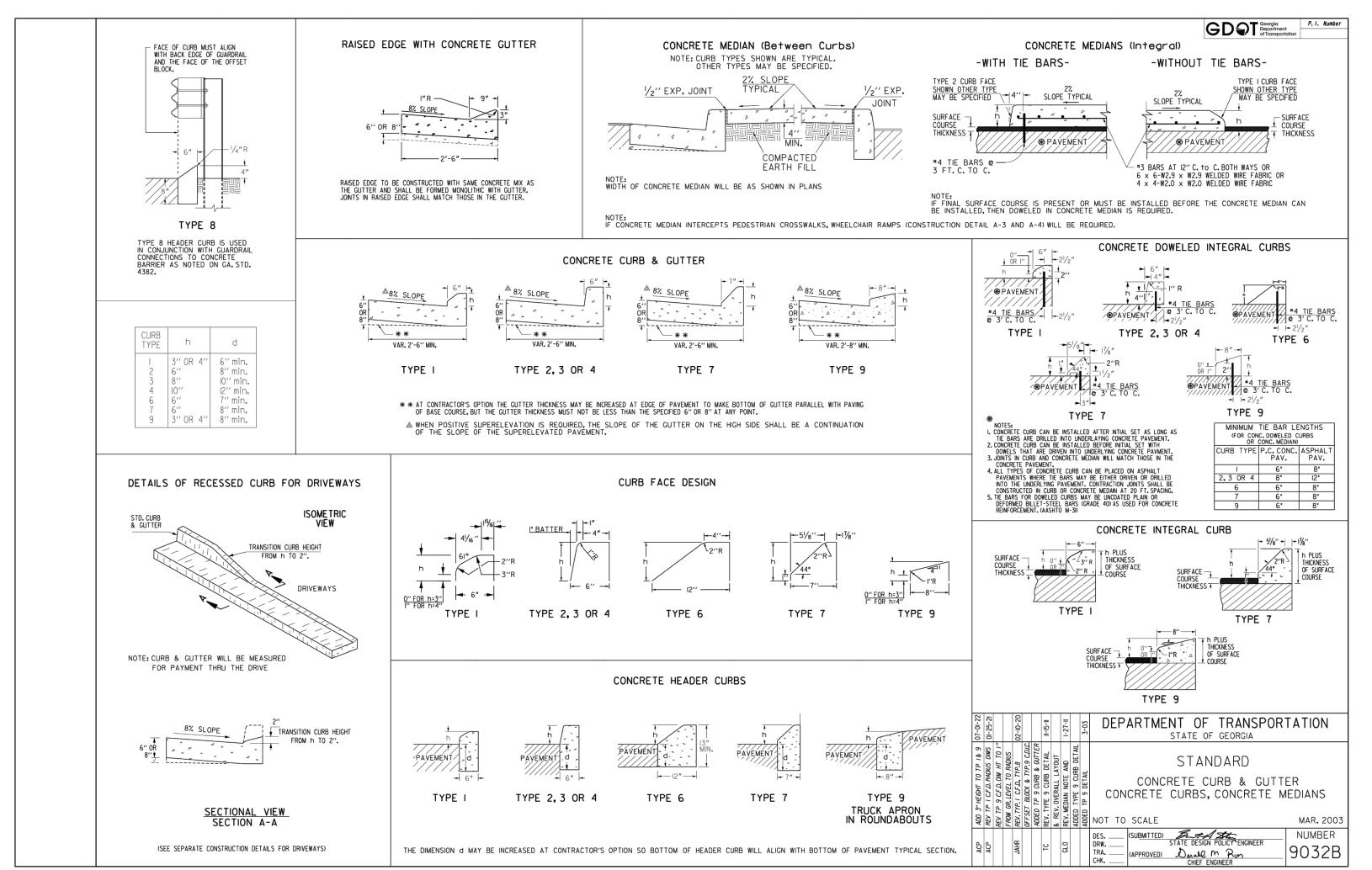


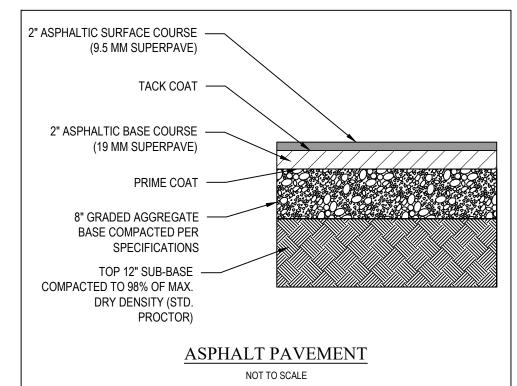


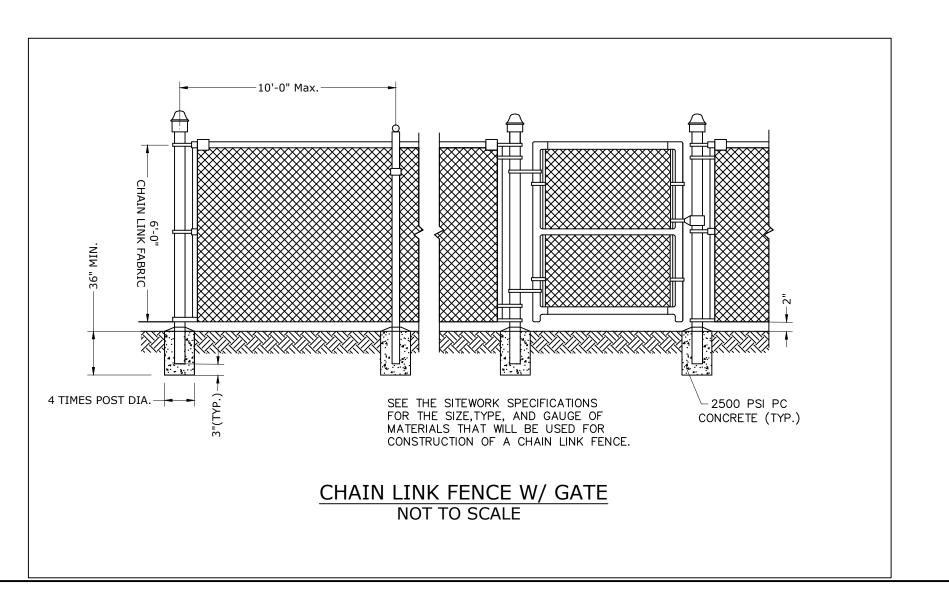


ORIGINAL SHEET - ARCH D











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 		2023.09.29

Permit/Sec



Client/Project Logo

Client/Project
SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

Title

ONSTRUCTION DETAILS

Project No. Scale 215617717

Revision Sheet Drawing No.

C-500

CONSTRUCTION ACTIVITY

- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING NECESSARY VARIANCES AND PERMITS.
- 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 ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY AS NEEDED TO INSTALL THE INITIAL BMP'S AND AS DESCRIBED IN THE PLANS
- 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. 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 ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT
- EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER
- 6.1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIX OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN AND AS DETAILED IN MANUAL FOR EROSION CONTROL IN GEORGIA. THE STONE SIZE SHOULD 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 REOUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REOUIREMENTS.
- 6.2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES (IF ALSO INTENDED FOR SEDIMENT STORAGE) SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN. IN SOME INSTANCES, SOME PRELIMINARY GRADING MAY BE REQUIRED TO INSTALL STORMWATER MANAGEMENT FACILITIES OR TEMPORARY SEDIMENT BASINS. IMMEDIATELY FOLLOWING PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT DIVERSION DIKES AS SHOWN ON PLAN, THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL CONSTRUCTION IS COMPLETE AND PERMANENT SURROUNDING 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. SILT FENCE (SENSITIVE AND NON-SENSITIVE) 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 6-20.2.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 ½ HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY
- INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
- STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD
- BE INSPECTED DAILY, ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY. 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 WARRANTS ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.
- AMENDMENTS/REVISIONS TO THE ESPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF. THE CONTRACTOR MAY UTILIZE DOWNED TREES AND OTHER CUT VEGETATION FOR SEDIMENT CONTROL OR AS A "BRUSH BARRIER" 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 MUNICIPALITY, OWNER AND/OR ENGINEER OF RECORD.
- 10. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN 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.
- 11. ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION
- 12. ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163 AND 184 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, FOR ROADS AND
- BRIDGES. 13. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND
- 14. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- 15. 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.
- 16. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING 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.
- 17. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 3. 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
- 19. 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
- 20. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER. 21. 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" 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. 22. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 23. 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
- 24. 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
- FROSION CONTROL PLANS 25. 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
- 1. SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS 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. (NO CRITICAL AREAS EXIST ON THIS
- 2. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH



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MULCH OR TEMPORARY SEEDING.

GRADING PHASE EROSION CONTROL NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY WHERE NECESSARY TO PERFORM GRADING AND INSTALL UTILITIES. NOTE ANY SUB PHASES THAT MAY BE SHOWN ON PLANS. 2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID PERMIT COVERAGE:

POLLUTANTS.

STABILIZATION.

SUCH DISCHARGES.

POST-CONSTRUCTION.

GENERAL NOTES:

SPILL. PART III.B.2

(NRC) AT (800) 424-8802. PART III.B.1

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF

NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EDP), GENERAL PERMIT NO. GAR100001 FOR

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE FLIMINATION SYSTEM (NPDES)

STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND-ALONE DEVELOPMENTS.

DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.a-b

PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT.

COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

(NON-STORMWATER DISCHARGES) OF THIS PERMIT.

AUTHORIZED MIXED STORM WATER DISCHARGES: PART I.C.2

AUTHORIZED NON-STORM WATER DISCHARGES: PART III.A.2

1. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND

ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS

a. INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE

b. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE

WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT:

INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES

GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN

THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE

ACTIVITIES: FIRE HYDRANT FLUSHING: POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING:

A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE

AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL

IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7

NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION

AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7.: DISCHARGES FROM FIRE FIGHTING

AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR

IRRIGATION DRAINAGE; AIR CONDITIONING CONDENSATE; SPRINGS; UNCONTAMINATED GROUND WATER;

FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE

INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN

MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR

STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC

NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE MENTIONED REGULATIONS AS SOON AS HE HAS

KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4883 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER

CONTRACTOR CHOOSE TO UTILIZE AN ALTERNATIVE TYPE C SILT FENCE TECHNOLOGY, IT SHALL BE IDENTIFIED IN

IF ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO

CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GASWCC)

ARE TO BE USED, PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG

WETLANDS WERE NOT FOUND IN THE PROJECT AREA. STATE WATERS ARE NOT WITHIN 200' OF THE PROJECT AREA.

APPENDIX 1: THE PROPERTY DOES NOT LIE WITHIN A ONE-MILE RADIUS OF AN IMPAIRED STREAM, PER THE GSWCC

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS

2020 INTEGRATED 305(b)/303(d) LIST DOCUMENTS (APPROVED). ADDITIONAL BMP'S ARE NOT REQUIRED FOR

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL

SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

GDOT DOCUMENT QPL-36. ANY ALTERNATIVE TECHNOLOGY NOT IDENTIFIED IN THIS DOCUMENT CANNOT BE UTILIZED

THIS PROJECT DOES NOT USE ALTERNATIVE BMPS FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES RESULTING FROM AN ONSITE

4. NO SPECIFIC SUBSTITUTE FOR TYPE C SILT FENCE IS PROPOSED FOR THIS PROJECT. HOWEVER, SHOULD THE

APPENDIX A-2 OF THE MANNUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA 2017 EDITION.

RECEIVING WATERS FOR THIS PROJECT ARE UNNAMED TRIBUTARIES TO SNAPFINGER CREEK.

WETLANDS AREAS DO NOT EXIST IN THE PROPOSED DISTURBED AREAS.

PROJECT. ONLINE GSWCC RESOURCES WERE USED FOR CONFIRMATION.

460.90'

N 89°36'42" W

SALEM ROAD

(80-FOOT RIGHT-OF-WAY)

- DB29057, PG491 -

NO STATE WATERS AND REQUIRED BUFFERS ARE ON-SITE.

THERE ARE NO BUFFER ENCROACHMENTS.

STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL. CHAPTER 391-3-6-03.

SEDIMENT STORAGE IS PROPOSED DURING CONSTRUCTION TO PREVENT OFFSITE SOIL LOSS. A STORMWATER POND

(26) WITH A MICROPOOL PER THE GSWMM IS PROVIDED TO MEET THE WATER QUALITY REQUIREMENTS

WITHOUT REVISING THE APPROVED ESPC PLAN WITH THE LOCAL ISSUING AUTHORITY.

COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES

c. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE

CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;

- DUMPING OR SLOUGHING INTO THE BUFFER AREAS. 3. THE FOLLOWING CONSTRUCTION ACTIVITIES AND IMPLEMENTATION OF EROSION CONTROL MEASURES MAY OCCUR DURING THE INTERMEDIATE/GRADING PHASE OF CONSTRUCTION. 3.1. GRADING AND EARTHWORK
- MAJOR UTILITIES INSTALLATION SUCH AS STORM DRAINAGE, SANITARY SEWER AND POTABLE WATER LINE 3.3. ROADWAY PREPARATION AND PAVING
- 3.4. MAINTENANCE AND MODIFICATIONS TO TEMPORARY EROSION CONTROL MEASURES AS DEPICTED IN THE
- 4. SEDIMENT SHALL NOT BE ALLOWED TO DRAIN INTO EXISTING OR PROPOSED INLETS. SEDIMENT COLLECTED DURING MAINTENANCE OF EROSION CONTROL DEVICES SHALL BE REMOVED FROM THE SITE OR SPREAD IN
- LANDSCAPED OR NATURALLY VEGETATED AREAS, SEEDED AND COVERED WITH STRAW OR MULCH. 5. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- 6. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY EROSION CONTROL MEASURES WHILE
- ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE. 7. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. 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 BARRIER, ADDITIONALLY DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE
- DETAILS FOR ADDITIONAL INFORMATION. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING SILT 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.
- 9. CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V 10. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. SEE
- SEPARATE DETAILS FOR ADDITIONAL INFORMATION. 11. TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR
- ADDITIONAL INFORMATION. 12. 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. 13. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- 14. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- 15. ALL DRAINAGE SWALES SHALL BE STABILIZED AND VEGETATED AS SOON AS FINAL GRADE IS ACHIEVED. 16. ALL GRADED AREAS SHALL RECEIVE VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- 17. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. 18. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL SERVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. 20. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF

19. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS

- 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.
- 21. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 22. 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. 23. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL
- CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

FINAL PHASE EROSION CONTROL NOTES:

MAINTAINED UNTIL FINAL STABILIZATION IS ACCOMPLISHED.

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION. 1. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS, SPREAD ON
- SITE AND STABILIZED SO THAT IT CANNOT ENTER THE INLETS AGAIN. 2. FINAL GRASSING (SEEDING OR SODDING) ALONG WITH ANY PROPOSED LANDSCAPING SHALL BE PERFORMED AS SOON AS PRACTICAL UPON COMPLETION OF CONSTRUCTION. OTHERWISE ALL ESPC MEASURES SHALL BE
- 3. 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.
- 4. $\,$ AFTER INSTALLATION OF CURBING AND ROADWAY PAVEMENT, ANY 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.
- 5. THE GRADED SHOULDER OF ALL ROADWAY AND PARKING AREAS SHOULD BE STABILIZED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. 6. 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" 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. 7. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 8. 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.
- 9. 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.**
- 10. 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

ACTIVITY SCHEDULE (29) ACTIVITY ISTALLATION OF EROSION CONTROL TREE SAVE/FENCE CLEARING AND GRUBBING NSTALLATION OF DETENTION FACILITY GRADING ACTIVITIES NSTALLATION OF SANITARY STALLATION OF STORM SEWER STABILIZATION OF SITE INSTALLATION OF WATER INSTALLATION OF PAVING STABILIZATION OF SITE MAINTENANCE OF EROSION CONTROL MOVAL OF EROSION CONTR

TOTAL SITE AREA = 11.37 ACRES TOTAL DISTURBED AREA = 1.30 ACRES ± SHOULD DISTURBED AREA EXCEED THE GAR 10000 PERMIT LIMITS, MONITORING SHALL APPLY TO THIS DEVELOPMENT.

DURING CONSTRUCTION, PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION EXITS, SILT FENCING, INLET PROTECTION, SLOPE STABILIZATION, DUST CONTROL, TEMPORARY AND PERMANENT SEEDING.

GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

EXISTING DRAINAGE BASINS

OUTFALL SAMPLING POINT

PRE DEVELOPMENT RUNOFF CURVE NUMBER = 55
POST DEVELOPMENT RUNOFF CURVE NUMBER = 86

WASTE DISPOSAL

- WASTE MATERIALS SHALL NOT BE DISCHARGED TO THE WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. 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
- NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. 3. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS.

SPILL PREVENTION & CONTROL

- PETROLEUM BASED PRODUCTS, INCLUDING FUELS, LUBRICANTS, TRANSFORMER OIL, TARS, ETC., KEPT ON SITE SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED. ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. ASPHALT SUBSTANCES SHALL BE APPLIED AS LABELED. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. TYPICAL EQUIPMENT AND MATERIALS FOR CLEANUP INCLUDE GLOVES, GOGGLES, RAGS, RESPIRATORS, CAT LITTER, 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 SHALL BE CLEANED UP IMMEDIATELY FOLLOWING DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS
- . FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE
- CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. 3. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24
- HOURS AT 1-800-424-8802 4. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- 5. 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
- 6. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL
- PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORM WATER DISCHARGES ON SITE.
- 7.1. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER
- A TEMPORARY ROOF 7.2. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

HAZARDOUS WASTES

- 1. 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 SEFING 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. A 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 WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, ss12-14-2. ET SEQ), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITEE IS REQUIRED TO PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
 - THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. MO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES, IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. 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 (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS 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 AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER 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 STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

PRODUCT SPECIFIC PRACTICES

- 1. 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 MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER 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. 2. 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 STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF
 - ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. 3. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. TOOLS MAY BE WASHED INTO A WASHDOWN PIT. SAID PIT SHALL BE CONCRETE OR DRUM WASH WATER ONSITE. TOOLS MAY BE WASHED INTO A WASHDOWN PIT. SAID PIT DUG INTO CLAY TYPE SOIL AND MUST BE LOCATED OUTSIDE OF ANY PROTECTIVE STREAM BUFFERS OR ENVIRONMENTALLY SENSITIVE AREAS. SEE EPD GUIDELINES FOR MORE SPECIFICS ON CONCRETE WASHOUT
 - 4. 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.
 - 5. BUILDING MATERIALS NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

EROSION CONTROL CERTIFICATION

- 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 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
- (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 DIRECT SUPERVISION."

KEVIN W. CLARK, P.E., CERTIFICATION #11388, EXPIRES 05/31/2024 DESIGN PROFESSIONAL

(3) "I CERTIFY UNDER THE 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 QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INOUIRY 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 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'S SIGNATURE OR AUTHORIZED AGENT

ERTIFY AS THE DESIGN PROFESSIONAL THAT I HAVE VISITED THE SITE TO VISUALLY INSPECT THE BMP (14) FALLATION, AND THEY ARE INSTALLED PER PLAN, WITHIN 7 DAYS AFTER INSTALLATION"

KEVIN W. CLARK, P.E., CERTIFICATION #11388, EXPIRES 05/31/2021 DESIGN PROFESSIONAL

PERMITEE INFORMATION: (5) PRIMARY PERMITTEE:

Stantec Consulting Services Inc. 229 PEACHTREE ST NE #1900 ATLANTA, GA 30303 Tel: 678-719-9661 www.stantec.com

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Consultant

DEVELOPER / CLIENT: CITY OF STONECREST

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Appd YYYY.MM.DD Issued File Name: 17717C-700EC 2023.09.29 Dwn. Dsgn. Chkd. YYYY.MM.DD

Permit/Seal



Client/Project Logo

Client/Project SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

EROSION CONTROL NOTES

Project No. 215617717

Drawing No.

Scale

Revision Sheet

ORIGINAL SHEET - ARCH D

	Pugin dan	sv	STRUCTION PROJECTS VCD:	CALEM POAD	
	City/County: CIT	ie: SALEM PARK PARKING LOT OF STONECREST, DEKALB COUNTY FILLING OUT CHECKLIST:	Address: <u>5290</u> Date on Plans:		
Plan Page #	Included Y/N	ILLING OUT CHECKLIST:	TO BE SHOWN ON ES&PC PLAN		1
C701	Y	1 The applicable Erosion, Sedimentation and Pollution Coland-disturbing activity was permitted.	ontrol Plan Checklist established by the Commissi	on as of January 1 of the year in which the	
ALL	Гу	(The completed Checklist must be submitted with the ESc 2 Level II certification number issued by the Commission,	,	onal.	
ALL		(Signature, seal and Level II number must be on each sh	eet pertaining to ES&PC plan or the Plan will not be	reviewed)	
	N/A	3 Limit of disturbance shall be no greater than 50 acres a the request to disturb 50 acres or more at any one time GAEPD approval letter.*			
		(A copy of the written approval by EPD must be attached	,	I Consequent	
C700	Y	 The name and phone number of the 24-hour local cont Provide the name, address, email address, and phone 		ution controls.	
C700	Y	6 Note total and disturbed acreage of the project or phase	e under construction.		
C701/ PLANS	Y	7 Provide the GPS location of the construction exit for the	e site. Give the Latitude and Longitude in decimal	degrees.	
ALL	Y	8 Initial date of the Plan and the dates of any revisions m	ade to the Plan including the entity who requested	the revisions.	
C701	Y	9 Descriptions of the nature of construction activity and e	-		
COVER C700	Y	 Provide vicinity map showing site's relation to surround Identify the project receiving waters and describe all se 		•	
C700		which may be affected. 12 Design professional's certification statement and signat			
C700		of the permit. 13 Design professional's certification statement and signat			
C700	Т	BMPs and sampling to meet permit requirements as stated to Clearly note the statement that "The design professional transfer or the statement of the statement	ated on Part IV page 19 of the permit.*		
C700	Y	requirements and perimeter control BMPs within 7 days 15 Clearly note the statement that "Non-exempt activities s	after installation." in accordance with Part IV.A.5	page 25 of the permit.*	
C700		point of wrested vegetation or within 25-feet of the coast the necessary variances and permits."			g
C700	Y	16 Provide a description of any buffer enroachments and in			
C700	Y	17 Clearly note the statement that "Amendments/revisions certified by the design professional."	-		
C700	Y	18 Clearly note the statement that "Waste materials shall r	, ,	,	
C700	Y	19 *Clearly note statement that "The escape of sediment for practices prior to land disturbing activities."	rom the site shall be prevented by the installation	of erosion and sediment control measures and	
C700	Y	20 Clearly note statement that "Erosion control measures effective erosion control, additional erosion and sedime	•		
C700	Гу	21 Clearly note the statement "Any disturbed area left exp	·		
C700	Y	22 Any construction activity which discharges storm water	into an Impaired Stream Segment, or within 1 line	ar mile upstream of and within the same	
		watershed as, any portion of an Biota Impaired Stream the BMPs that will be used for those areas of the site w	Segment must comply with Part III. C. of the Perr hich discharge to the Impaired Stream Segment.*	nit. Include the completed Appendix 1 listing all	
C700	Y	23 If a TMDL Implementation Plan for sediment has been submittal of NOI, the ES&PC Plan must address any si	te-specific conditions or requirements included in	he TMDL Implementation Plan.*	0140 4 1410 1110
C700	Y	24 BMPs for concrete washdown of tools, concrete mixer of prohibited.*	chutes, hoppers and the rear of the vehicles. Was	hout of the drum at the construction site is	
C700	Y	25 Provide BMPs for the remediation of all petroleum spills	s and leaks.		
C700	Y	26 Description of the measures that will be installed during operations have been completed.*	the construction process to control pollutants in s	torm water that will occur after construction	
C701	Y	27 Description of practices to provide cover for building ma	aterials and building products on site.*		
C700	Y	28 Description of the practices that will be used to reduce	the pollutants in storm water discharges.*		
C700	Y	29 Description and chart or timeline of the intended sequel sediment storage BMPs, clearing and grubbing activitie			d
C701	Y	30 Provide complete requirements of inspections and reco	rd keeping by the primary permittee.*		
C701	Y	31 Provide complete requirements of sampling frequency			
C701	Y	32 Provide complete details for retention of records as per33 Description of analytical methods to be used to collect a	·		
C701	Y	34 Appendix B rationale for NTU values at all outfall samp			
PLANS	Υ	35 Delineate all sampling locations, perennial and intermit	ent streams and other water bodies into which sto	rm water is discharged.*	
		36 A description of appropriate controls and measures tha and perimeter control BMPs, (2) intermediate grading a			
C700	Y	and the initial perimeter control BMPs, intermediate grainty a into a single phase.*			9
PLANS	Υ	37 Graphic scale and north arrow.			
PLANS	Y	38 Existing and proposed contour li	ines with contour lines drawn at an interval in acco	ordance with the following:	
		Map Scale 1 inch = 100ft or	Ground Slope Flat 0 - 2%	Contour Intervals, ft. 0.5 or 1	+
		larger scale	Rolling 2 - 8% Steep 8% +	1 or 2 2,5 or 10	
	N/A	39 Use of alternative BMPs whose performance has been Professional (unless disapproved by EPD or the Georg		, ,	
	N/A	Document found at www.gaswcc.georgia.gov. 40 Use of alternative BMP for application to the Equivalent	,		
DI ASSE		2016 edition			
PLANS	Y	41 Delineation of the applicable 25-foot or 50-foot undistur Authority. Clearly note and delineate all areas of impact	et.	ional purrers required by the Local Issuing	
C700	Y	 Delineation of on-site wetlands and all state waters loca Delineation and acreage of contributing drainage basin 			
HYDRO	Y	44 Provide hydrology study and maps of drainage basins f			
C700	Y	45 An estimate of the runoff coefficient or peak discharge	·	·	
PLANS	Y	46 Storm-drain pipe and weir velocities with appropriate or discharge points.	utlet protection to accommodate discharges withou	it erosion. Identify/Delineate all storm water	
C700/ PLANS	Y	47 Soil series for the project site and their delineation.			
PLANS	Y	48 The limits of disturbance for each phase of construction		onin voluntitud datasii	
PLANS	Y	49 Provide a minimum of 67 cubic yards of sediment stora excavated inlet sediment traps for each common draina activities until final stabilization of the site has been ach basin is not attainable must be included in the plan for ex-	age location. Sediment storage volume must be in ileved. A written justfication explaining the decisio each common drainage location in which a sedime	place prior to and during all land disturbance n to use equivalent controls when a sediment ent basin is not provided. A written justification as	s
		to why 67 cubic yards of storage is not attainable must calculations used by the design professional to obtain to basins and impoundments, permittees are required to that withdraw water from the surface are not feasable, a	he required sediment storage when using equivaleutilize outlet structures that withdraw water from the	ent controls. When discharging from sediment e surface, unless infeasible. If outlet structures	
PLANS/ DETAILS	Υ	50 Location of Best Management Practices that are consis uniform coding symbols from the Manual, Chapter 6, w		r Erosion and Sediment Control in Georgia. Use	9
PLANS	Y	51 Provide detailed drawings for all structural practices. S	-	nes set forth in the Manual for Erosion and	
DETAILS		Sediment Control in Georgia. 52 Provide vegetative plan, noting all temporary and permanents.	•		
22.,413	_ ·	mulching rates. Vegetative plan shall be site specific for Georgia.			f
					1

PROJECT DESCRIPTION:

THE PROJECT IS LOCATED IN STONECREST GA, IN SALEM PARK OFF OF SALEM ROAD. THE SCOPE OF THE PROJECT INCLUDES DEMOLISHING THE EXISTING PARKING LOT, INSTALLING A NEW PARKING LOT WITH 39 SPACES, AND CHANGES TO THE EXISTING DETENTION POND. TO THE NORTH AND EAST IS RESIDENTIAL LOTS. TO THE WEST IS RELIGIOUS INSTITUTIONS AND COMMERCIAL AREAS. TO THE SOUTH IS SALEM ROAD, EDUCATIONAL INSTITUTIONS AND ALSO RESIDENTIAL LOTS.

CONSTRUCTION ENTRANCE LOCATIONS: 1. N33.678628, W84.171820

NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLE

	WARM WATER (SUPPORTING WARM WATER FISHERIES) SURFACE WATER DRAINAGE AREA, SQUARE MILES									
ES		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+	
ACRES	1.00-10	75	150	200	400	750	750	750	750	
	10.01-25	50	100	100	200	300	500	750	750	
SIZE,	25.01-50	50	50	100	100	200	300	750	750	
SITE	50.01-100	50	50	50	100	100	150	300	600	
	100.01+	50	50	50	50	50	100	200	100	

Pacolet sandy loam, 2 to 10 percent slopes Wedowee sandy loam, 2 to 6

percent slopes

PERMITTING NOTES:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR

A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP. THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

2. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING

METHODOLOGY FOR EACH SAMPLING LOCATION; 3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

4. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

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

SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. . SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION, HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT OUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. 5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS

FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER OUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES: a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF

THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE. b. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE

APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. c. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR

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

e. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

q. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF

h. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE. FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. 2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND

THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE. 3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING

b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE

AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST; c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

d. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY

NON-STORM WATER DISCHARGES PART IV.D.7:
EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

OTHER CONTROLS:

1. FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS, MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

PERMITTING NOTES:

REPORTING PART IV.E.:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS √ SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING 31) PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING ? RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT, UPON WRITTEN NOTIFICATION, EPD MAY REOUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREOUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: A.THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS; C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED; E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART

RETENTION OF RECORDS PART IV.F.:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI: A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT: d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT; f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

g. $\,$ DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(2) OF THIS PERMIT. . COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

INSPECTIONS-PERMITTEE REQUIREMENTS PART IV.D.4.a

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHAL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NO MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY, THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

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

. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING

SIGNIFICANT IMPACTS TO RECEIVING WATER(S) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION..

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

GSWCC CHECKLIST ITEM #

Kevin Wayne Clark

Level II Certified Design Professional

CERTIFICATION NUMBER

(CHECKLIST ON FOLLOWING SHEET)

GEORGIA SOIL AND WATER

EXPIRES: <u>05/31/2</u>024

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Consultant

DEVELOPER / CLIENT: CITY OF STONECREST

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Appd YYYY.MM.DD Issued File Name: 17717C-700EC 2023.09.29 Dwn. Dsgn. Chkd. YYYY.MM.DD Permit/Seal



Client/Project SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

EROSION CONTROL NOTES

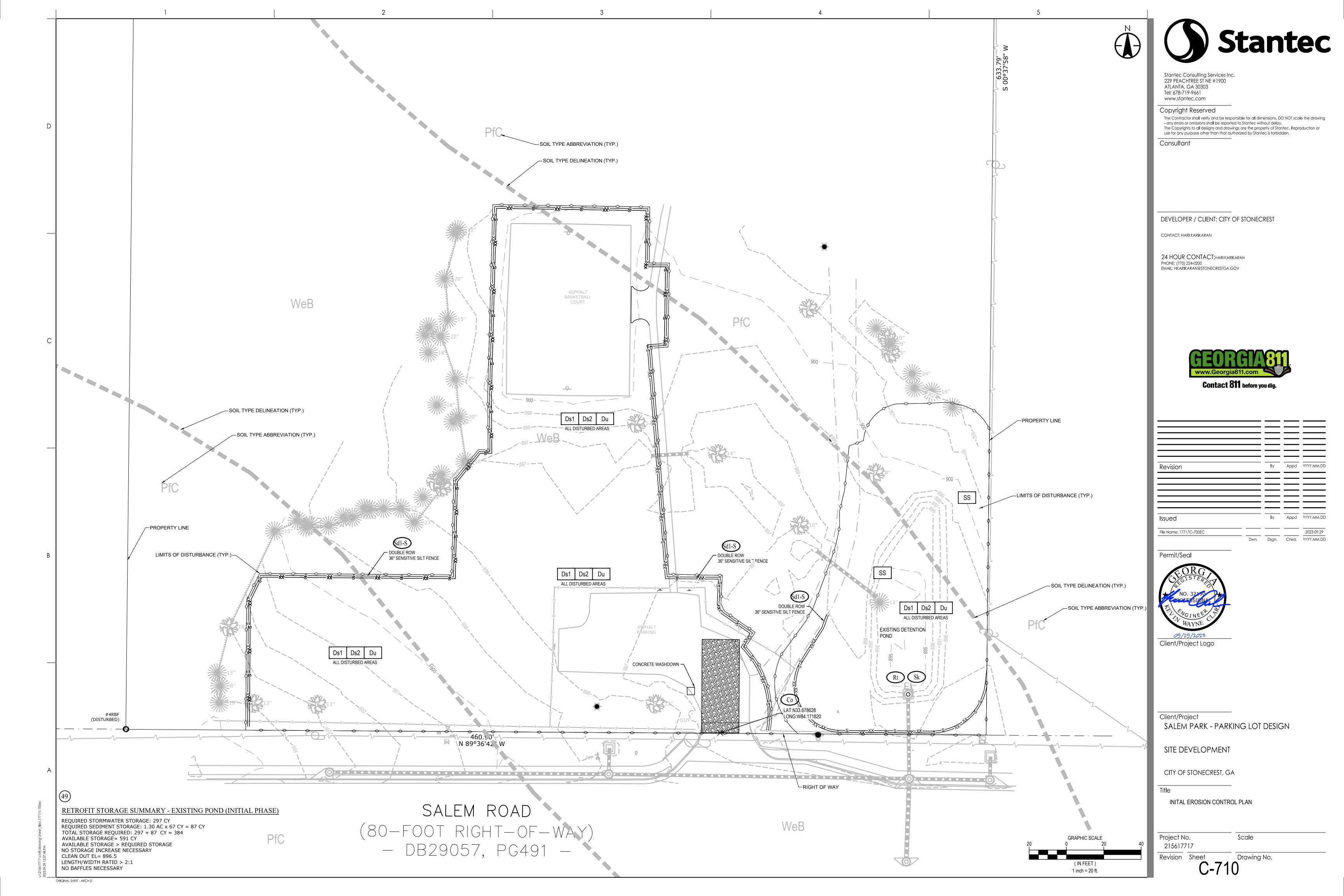
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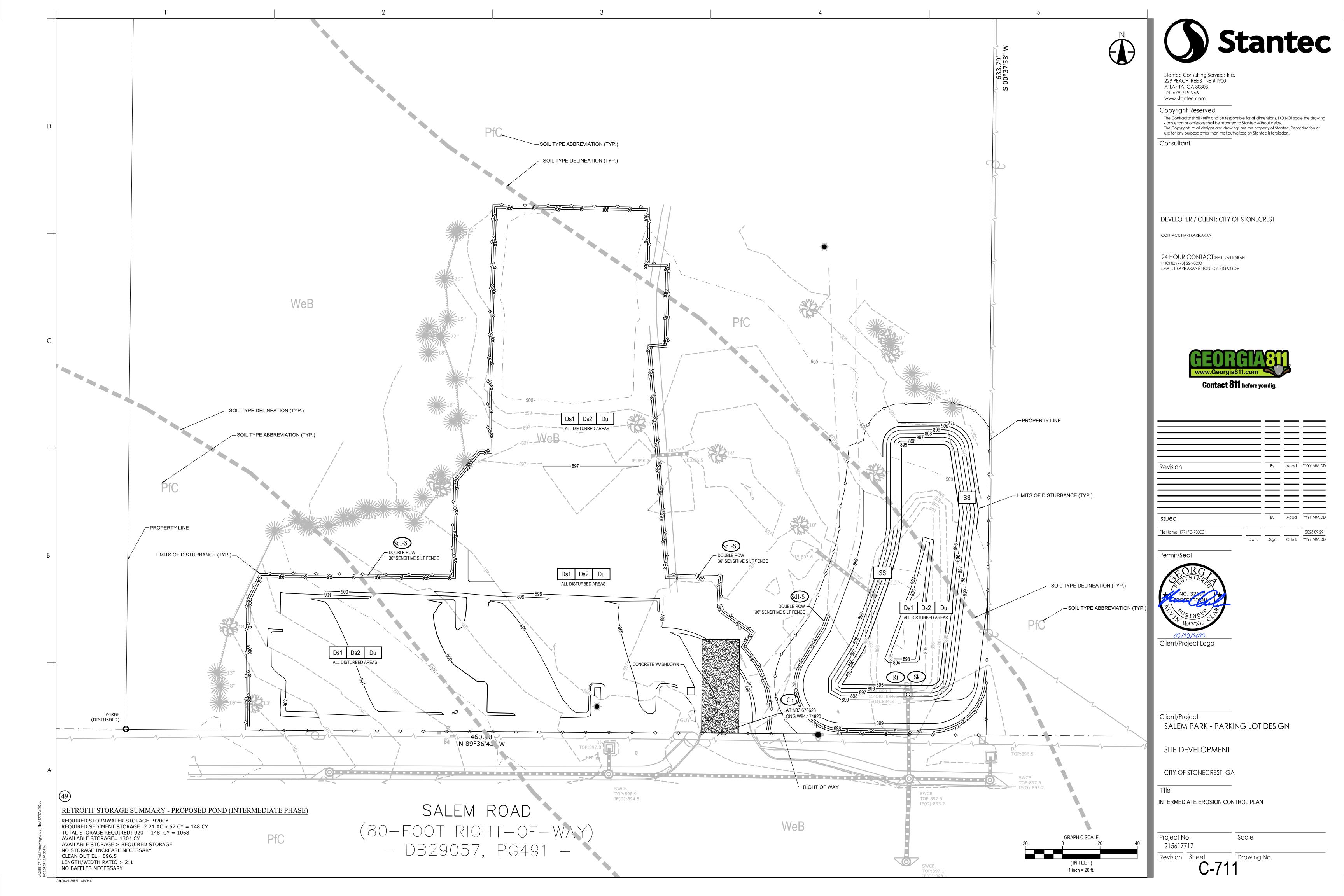
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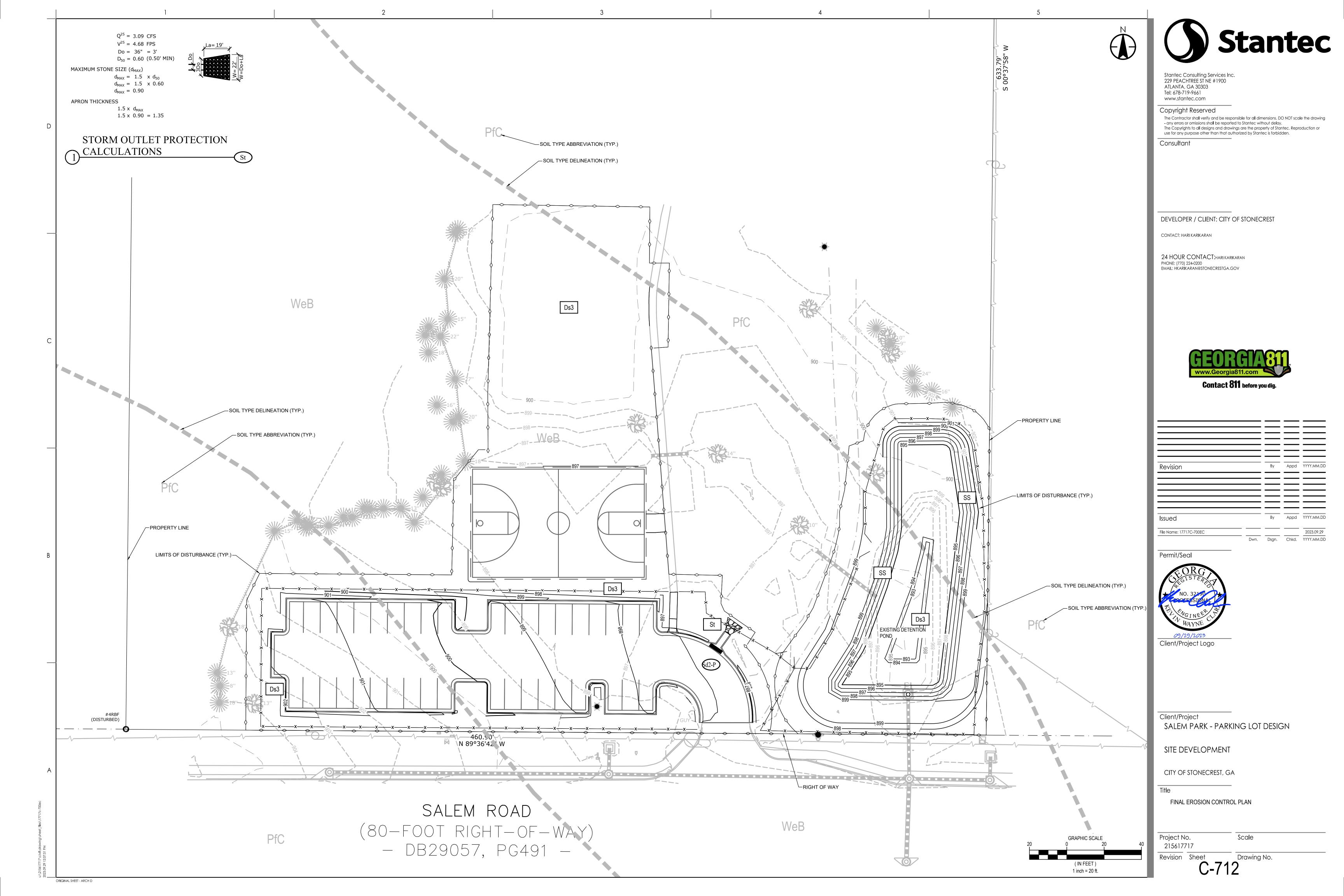
Scale

Revision Sheet

ORIGINAL SHEET - ARCH D





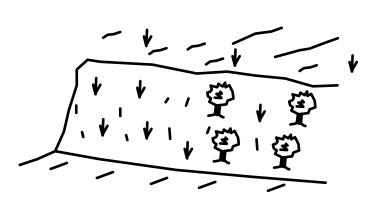


WHEN SEEDING WILL NOT HAVE A SUITABLE GROWING SEASON TEMPORARY STABILIZATION MAY BE ACCOMPLISHED STRAW - 2 TONS/AC - 2-4" DEEP HAY - 2.5 TONS/AC - 2-4"

DEEP WOOD WASTE, BARK, SAWDUST - 2-3" DEEP

REFER TO "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS

DISTURBED AREA STABLIZATION (2) W/TEMPORARY MULCHING



ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED

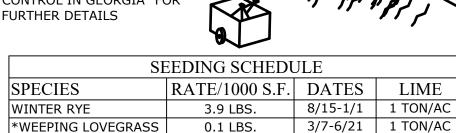
REFER TO "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS

SI	EEDING S	SCHEDU	JLE	3	
SPECIES	RATE/10	000 S.F.	D	ATES	LIME
HULLED BERMUDA	0.2 L	BS.	3	/1-7/1	1 TON/AC
UNHULLED BERMUDA	0.2 L	BS.	10)/1-3/1	1 TON/AC
FESCUE	1.1 L	BS.	8/:	15-11/1	1 TON/AC
COOL SEA	SON GRA	ASSES -	FE	RTILIZ	ER
	NDZ	RATE		TOP DRESSING	
	N-P-K	(LBS/A	(C)	(L)	BS/AC)
FIRST YEAR	6-12-12	1500		5	0-100
SECOND YEAR	6-12-12	1000			-
MAINTENANCE	10-10-10	400			30
WARM SEA	SON GR	ASSES -	·FE	RTILIZ	ER
	N. D. IZ	RATE	3	TOP D	RESSING
	N-P-K	(LBS/A	C)	(LI	BS/AC)
FIRST YEAR	6-12-12	1500		5	0-100
SECOND YEAR	6-12-12	800		5	0-100
MAINTENANCE	10-10-10	400			30

DISTURBED AREA STABLIZATION W/PERMANENT VEGETATION Ds3

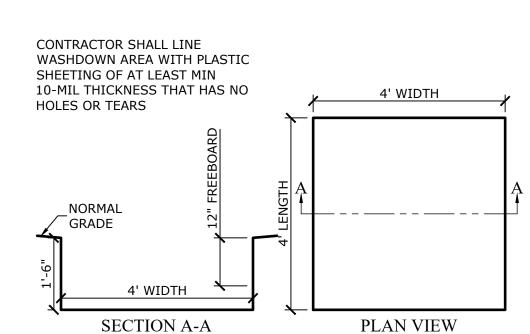
ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.

REFER TO "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS

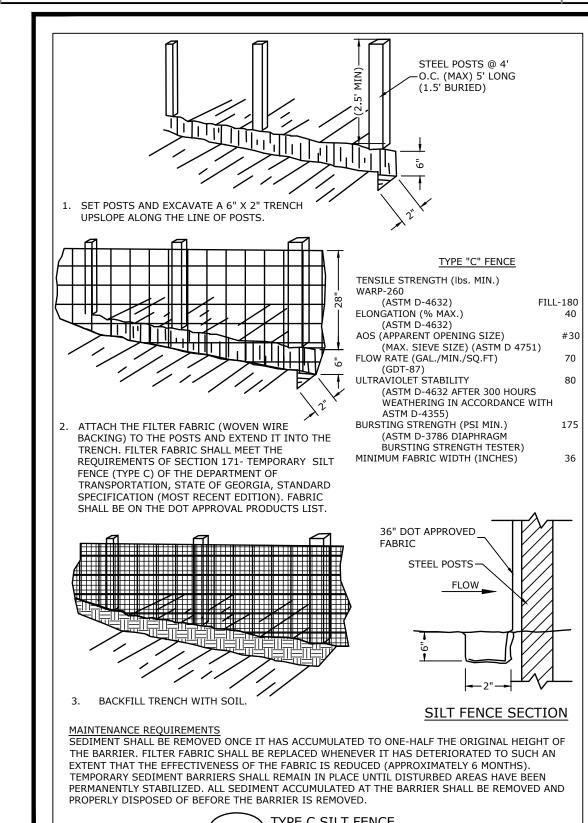


*HYDROSEED ON ALL 2:1 (H:V SLOPES. *FOR VERY LOW FERTILITY SOILS USE 500 TO 700 LBS OF 10-10-10 FERTILIZER

DISTURBED AREA STABLIZATION 1) W/TEMPORARY SEEDING SCALE: NONE



(5) CONCRETE WASHDOWN



DEFINITION

-TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON

CONDITIONS

METHODS AND MATERIALS

MULCHES SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD Tb-TACKIFIERS AND

BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S

VEGETATIVE COVER SEE STANDARD Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

IRRIGATION THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN

CONTROLLING WIND EROSION CALCIUM CHLORIDE APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY

PERMANENT VEGETATION SEE STANDARD Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TD-TOPSOILING.

STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD Cr-CONSTRUCTION ROAD STABILIZATION.

DUST CONTROL ON DISTURBED AREAS

BARRIERS SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT

SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

 $\underline{\mathsf{SPRAY}\text{-}\mathsf{ON}}$ ADHESIVES THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD Tb-TACKIFIERS AND BINDERS.

TILLAGE THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND

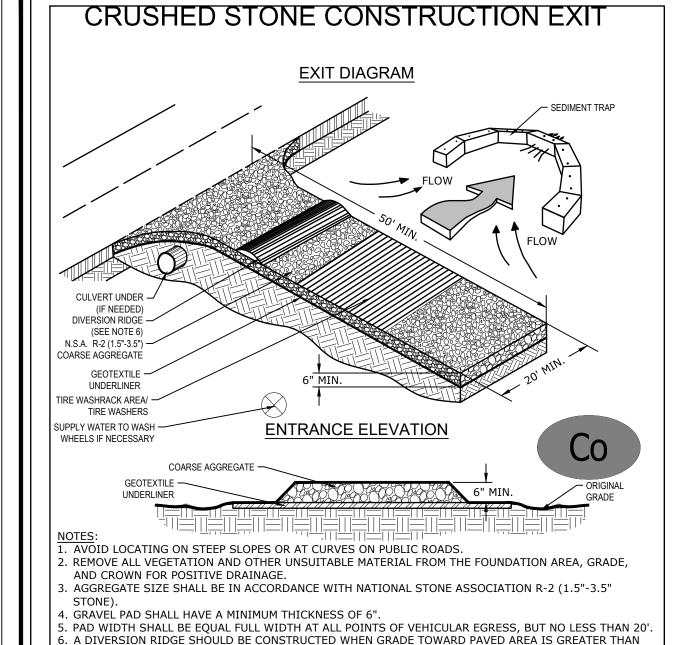
-TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES

HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

PERMANENT METHODS

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INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.

AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).

WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE

THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF

). WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF

NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT

RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES

.0. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC

PIPE OUTLET TO FLAT AREA- NO WELL-DEFINED CHANNEL PIPE OUTLET TO WELL-DEFINED CHANNEL

CONSTRUCTION NOTES: La = THE LENGTH OF APRON. d= DIAMETER OR OUTLET PIPE 3. D = 1.5 TIMES STONE DIAMETER,6" MIN. 4. IN A WELL-DEFINCED 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 SOIL FOUNDATION. ENSURE THAT THE SUBGRADE FOR THE FILTER AND THE RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY STATED IN THE SPECIFICATIONS. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MIN. OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT. 10. FILTER: INSTALL A FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIPRAP. THE FILTER SHOULD CONSIST OF A GRADED GRAVEL LAYER AND A SYNTHETIC FILTER 11. INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE. SECTION AA STORM DRAIN OUTLET U:\215617717\civil\drawing\sheet files



FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

	51	RUCTU	KAL F	PRACTICES		
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	CODE	PRACT
Cd	CHECKDAM	ALC: N	S	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	Sr	TEMPOR STREA CROSS
Ch	CHANNEL STABILIZATION		7	Improving, constructing or stabilizing an open channel, existing stream, or ditch.	St	STORMD OUTLI PROTEC
Co	CONSTRUCTION EXIT		(LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	Su	SURFA ROUGHE
Cr	CONSTRUCTION ROAD STABILIZATION	in the second	فننق	A travelway constructed as part of a constructio plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.	Tc	TURBIC CURT <i>I</i>
Dc	STREAM DIVERSION CHANNEL	= ()=	*	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Тр	TOPSOI
Di	DIVERSION		CARRETO TO	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.	Tr	TREI PROTEC
(Dn1)	TEMPORARY DOWNDRAIN STRUCTURE		On1)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.	Wt	WATERI OR STORMW CONVEY
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.		
Fr	FILTER RING	U		A temporary stone barrier constructed at storm drain inlets and pond outlets.		
Ga	GABION	W	II.	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	CODE	PRACT
Gr	GRADE STABILIZATION STRUCTURE		GO (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	Bf	BUFFER 2
Lv	LEVEL SPREADER		7	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	Cs	COASTAL STABILIZA (WITH VEGE
Rd	ROCK FILTER DAM		5	A permanent or temporary stone filter dam installed across small streams or drainageways.	Ds1	DISTURBED STABILIZA (WITH MUL ONLY
Re	RETAINING	·	Ra	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not		DISTURBED

barrier to prevent sediment from leaving to construction site. It may be sandbags, bales

raw or hay, brush, logs and poles, gravel,

ound a storm drain drop inlet. The cavated area will be filled and stabilized

terway. The surface water runoff is

inciple feature distinguishing a temporary

sediment trap from a temporary sediment I

s the lack of a pipe or riser.

(Sk) from the surface of sediment ponds, traps, o

perpendicular to the direction of runoff to enhance dissipation and infiltration, while

creating multiple sedimentation chambers we the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE PRACTICE		DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		Sr)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		(S1)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		HSU-J	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN	D	(E)	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	0	DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.
Wt	WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

	VEGETATIVE PRACTICES								
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION					
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or t reestablishment of vegetation surrounding an area of disturbance or bordering streams.					
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	manne	Cs	Planting vegetation on dunes that are denude artificially constructed, or re-nourished.					
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbe areas where seedlings may not have a suitabl growing season to produce an erosion retarding cover.					
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.					
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.					
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.					
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.					
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.					
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.					
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.					
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.					
				GaSWCC (Amended - 2013)					



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Appd YYYY.MM.DD Issued 2023.09.29 Dwn. Dsgn. Chkd. YYYY.MM.DD Permit/Seal

Client/Project Logo

Client/Project SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

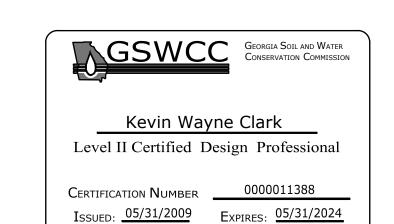
EROSION CONTROL DETAILS

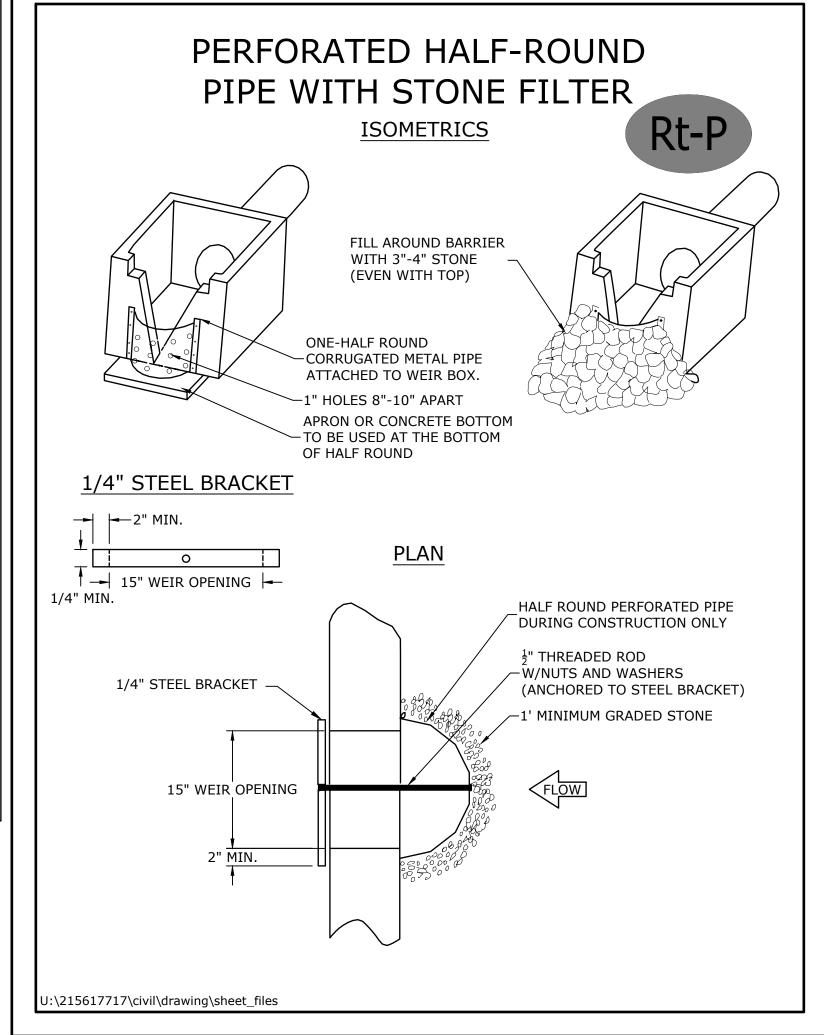
Project No. 215617717

Revision Sheet

Drawing No.

Scale





A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH PERMANENT VEGETATION ON STEEP

 TO PROVIDE A MICROCLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.

SLOPES, CHANNELS, OR SHORELINES.

 TO REINFORCE THE TURF TO RESIST FORCES OF EROSION DURING STORM EVENTS.

MATTING AND BLANKETS CAN BE APPLIED ON STEEP SLOPES APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. MAINTENANCE OF FINAL VEGETATIVE COVER MUST BE CONSIDERED WHEN CHOOSING BLANKETS VERSES MATTING. ON OF HANDLING. STREAMBANKS OR TIDAL SHORELINES WHERE MOVING WATER IS PRESENT, MATTING CAN PREVENT NEW PLANTINGS FROM BEING WASHED AWAY.

CARE MUST BE TAKEN TO CHOOSE THE TYPE OF BLANKET OR MATTING WHICH IS MOST APPROPRIATE FOR THE SPECIFIC COMBINATION BLANKETS INCLUDE THE FOLLOWING: PRODUCTS AVAILABLE, ALL OF THE ADVANTAGES, PRODUCTS WILL NOT BE DISCUSSED IN THIS MANUAL. AS WELL AS A SITE VISIT BY DESIGNER AND PLAN REVIEWER IS PER SQUARE YARD. HIGHLY RECOMMENDED TO DETERMINE A PRODUCT'S APPROPRIATENESS.

TEMPORARY EROSION CONTROL BLANKETS THIS INCLUDES TEMPORARY "COMBINATION" BLANKETS (ROLLED EROSION CONTROL BLANKETS-RECB) CONSISTING OF A PLASTIC NETTING WHICH COVERS AND IS INTERTWINED WITH A NATURAL ORGANIC OR MANMADE MULCH: OR. A JUTE MESH WHICH IS TYPICALLY HOMOGENEOUS IN DESIGN AND CAN ACT ALONE AS A SOIL STABILIZATION BLANKET. TEMPORARY BLANKETS AS A MINIMUM SHALL BE USED TO STABILIZE CONCENTRATED FLOW AREAS WITH A VELOCITY LESS THAN 5 FT/SEC AND SLOPES 2.5:1 OR STEEPER WITH A HEIGHT OF 10 FEET OT GREATER. BECAUSE TEMPORARY BLANKETS WILL DETERIORATE IN A SHORT PERIOD OF TIME, THEY PROVIDE NO ENDURING REDUCTION IN EROSION PROTECTION.

BENEFITS OF USING EROSION BLANKETS INCLUDE THE

- PROTECTION OF THE SEED AND SOIL FROM RAINDROP IMPACT AND SUBSEQUENT DISPLACEMENT. THERMAL CONSISTENCY AND MOISTURE RETENTION FOR SEEDBED AREA.
- 3. STRONGER AND FASTER GERMINATION OF GRASSES AND
- PLANING OFF EXCESS STORMWATER RUNOFF. PREVENTION OF SLOUGHING OF TOPSOIL ADDED TO STEEPER SLOPES.

PERMANENT EROSION CONTROL MATTING

SECOND.

CONSISTS OF A PERMANENT NON-DEGRADABLE, THREE-PERMANENT SOIL REINFORCING MATS (TURF REINFORCEMENT HAVE A UNIT WEIGHT OF AT LEAST 0.9 POUNDS PER SQUARE YARD, MATTING). ROOTS PENETRATE AND BECOME ENTANGLED IN BUT NOT MORE THAN 1.5 POUNDS PER SQUARE YARD. THE MATRIX, FORMING A CONTINUOUS ANCHORAGE FOR SURFACE GROWTH AND PROMOTING ENHANCED ENERGY DISSIPATION. MATTING SHALL BE USED WHEN A VEGETATIVE LINING IS DESIRED IN STORMWATER CONVEYANCE CHANNELS WHERE THE VELOCITY IS BETWEEN FIVE AND TEN FEET PER

BENEFITS OF USING EROSION CONTROL MATTING INCLUDE THE

1. ALL BENEFITS GAINED FROM USING EROSION CONTROL BLANKETS. 2. CAUSES SOIL TO DROP OUT OF STORMWATER AND FILL

MATRIX WITH FINE SOILS WHICH BECOME THE GROWTH MEDIUM FOR THE DEVELOPMENT OF ROOTS. 3. ACTS WITH THE VEGETATIVE ROOT SYSTEM TO FORM AN EROSION RESISTANT COVER WHICH RESISTS HYDRAULIC LIFT

AND SHEAR FORCES WHEN EMBEDDED IN THE SOIL WITHIN STORMWATER CHANNELS MATERIALS: ALL BLANKET AND MATTING MATERIALS SHALL BE ON WHERE EROSION HAZARD IS HIGH AND PLANTING IS LIKELY TO THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED BE TOO SLOW IN PROVIDING ADEQUATE PROTECTIVE COVER. PRODUCTS LIST (QPL # 62 FOR BLANKETS, QPL # 49 FOR MATTING). A. STAKE MAT INTO SLOT CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 ALL BLANKETS SHALL BE NONTOXIC TO VEGETATION AND TO THE B. USE 1"x3" PRESSURE TREATED BOARD AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND GERMINATION OF SEED AND SHALL NOT BE INJURIOUS TO THE FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH THE UNPROTECTED SKIN OF HUMANS. AT A MINIMUM, THE PLASTIC NETTING SHALL BE INTERTWINED WITH THE MULCHING MATERIAL/FIBER TO MAXIMIZE STRENGTH AND PROVIDE FOR EASE

TEMPORARY BLANKETS: MACHINE PRODUCED TEMPORARY COMBINATION BLANKETS SHALL HAVE A CONSISTENT THICKNESS WITH THE ORGANIC MATERIAL EVENLY DISTRIBUTED OVER THE ENTIRE BLANKET AREA. ALL COMBINATION BLANKETS SHALL HAVE A MINIMUM WIDTH OF 48 INCHES. MACHINE PRODUCED NEEDS OF A PROJECT. TWO GENERAL TYPES OF BLANKETS AND

A. STRAW BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF MATS ARE DISCUSSED WITHIN THIS SPECIFICATION. DUE TO THE WEED-FREE STRAW FROM AGRICULTURAL CROPS FORMED INTO A ABUNDANCE OF EROSION CONTROL MATTING AND BLANKET BLANKET. BLANKETS WITH A TOP SIDE OF PHOTODEGRADABLE PLASTIC MESH WITH A MAXIMUM MESH SIZE OF 5/16 X 5/16 INCH

DISADVANTAGES, AND SPECIFICATIONS OF ALL MANUFACTURED AND SEWN TO THE STRAW WITH BIODEGRADABLE THREAD IS APPROPRIATE FOR SLOPES. THE BLANKET SHALL HAVE A MINIMUM MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, THICKNESS OF 3/8 INCH AND MINIMUM DRY WEIGHT OF 0.5 POUNDS B. EXCELSIOR BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF CURLED WOOD EXCELSIOR (80% OF FIBERS ARE SIX INCHES OR LONGER) FORMED INTO A BLANKET. THE BLANKET SHALL HAVE CLEAR MARKINGS INDICATING THE TOP SIDE OF THE BLANKET AND BE SMOLDER RESISTANT. BLANKETS SHALL HAVE PHOTODEGRADABLE

INCH AND A MINIMUM DRY WEIGHT OF 0.8 POUNDS PER SQUARE THE BLANKET COVERED IN THE PLASTIC MESH, AND FOR WATER-WAYS, BOTH SIDES OF THE MESH REQUIRE PLASTIC MESH. C. COCONUT FIBER BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF 100% COCONUT FIBER FORMED INTO A BLANKET. THE MINIMUM THICKNESS OF THE BLANKET SHALL BE 1/4 OF AN INCH WITH A MINIMUM WEIGHT OF 0.5 POUNDS PER SQUARE YARD. MAXIMUM MESH SIZE OF 5/8 X 5/8 INCH AND SEWN TO THE FIBER MAT SHALL CONFORM TO THE FOLLOWING PHYSICAL PROPERTIES: WITH A BREAKDOWN RESISTANT SYNTHETIC YARN. PLASTIC MESH IS REQUIRED ON BOTH SIDES OF THE BLANKET IF USED IN WATER-WAYS. A MAXIMUM OF TWO INCHES IS ALLOWABLE FOR THE STITCH

PATTERN AND ROW SPACING. D. WOOD FIBER BLANKETS ARE COMBINATION BLANKETS THAT CONSIST OF REPROCESSED WOOD FIBERS THAT DO NOT POSSESS OR CONTAIN ANY GROWTH OR GERMINATION INHIBITING FACTORS. THE BLANKET SHALL HAVE A PHOTODEGRADABLE PLASTIC MESH, WITH A MAXIMUM MESH SIZE OF 5/8 X 3/4 INCH, SECURELY BONDED TO THE TOP OF THE MAT. THE BLANKET SHALL HAVE A MINIMUM DRY WEIGHT OF 0.35 POUNDS PER SQUARE YARD. A MAXIMUM OF TWO INCHES IS ALLOWABLE FOR THE STITCH PATTERN AND ROW SPACING. THIS PRACTICE SHALL BE APPLIED ONLY TO SLOPES. E. JUTE MESH CAN BE APPLIED TO SLOPES. JUTE MESH WITH A 48 INCH WIDTH SHALL SHOW BETWEEN 76 AND 80 WARPINGS AND A DIMENSIONAL PLASTIC STRUCTURE WHICH CAN BE FILLED WITH ONE YARD LENGTH SHALL SHOW BETWEEN 39 AND 43 WEFTINGS. SOIL PRIOR TO PLANTING. THESE MATS ARE ALSO KNOWN AS THE WOVEN MESH SHALL BE AT LEAST 45 INCHES WIDE. YARN SHALL

STEP 2: STAKE MAT INTO SLOT STEP 2: WORK UPSTREAM STEP 2: SNUG MAT INTO SLOT ACROSS. CHECK SLOT LAP STEP 3: BACKFILL TERMINAL SLOT BACK 15". ✓ SEE NOTE 3-B STEP 3: TUCK MAT LAP INTO SLOT & STAKE |---15'-20' --- | A. ROLL MAT UPSTREAM OVER REFILLED TERMINAL. B. STAKE MAT DOWN TO ANCHOR TERMINAL. TO BRACE MAT AGAINST VERTICAL CUT. . PROGRESS UPSTREAM WITH ROLL. C. BACKFILL AND COMPACT. STEP 4: BACKFILL AND PROGRESS UPSTREAM PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING. SEQUENTIAL ROLL RUN OUT IN CHANNELS A. REVERSE MAT ROLL DIRECTION TO 1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM. OVERLAY CHECK SLOT. 2. FIRST ROLL IS CENTERED LONGITUDINALLY B. STAKE MAT TO ANCHOR TERMINAL IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT 3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT

TO CHANNEL CENTER.

4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.

5. USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.

6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL

STEP 1: CUT CHECK SLOT TEMPORARILY

STAKE MAT UNDER MODERATE TENSION

PERMANENT MATTING: PERMANENT MATTING SHALL CONSIST OF A SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF LOFTY WEB OF MECHANICALLY OR MELT BONDED POLYMER PLASTIC MESH HAVING A MAXIMUM MESH SIZE OF 1 1/2 X 3 INCHES. NETTINGS, MONOFILAMENTS OR FIBER WHICH ARE ENTANGLED TO REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING THE THE BLANKET SHALL HAVE A MINIMUM THICKNESS OF 1/4 OF AN FORM A STRONG AND DIMENSIONALLY STABLE MATRIX. POLYMER FOLLOWING ARE CONSIDERED APPROPRIATE STAPLING AND BONDING METHODS. MATS SHALL MAINTAIN THEIR SHAPE BEFORE, LENGTH AND A CROWN OF ONE INCH OR APPROPRIATE DURING, AND AFTER INSTALLATION, UNDER DRY OR WATER SATURATED CONDITIONS. MATS MUST BE STABILIZED AGAINST ULTRAVIOLET DEGRADATION AND SHALL BE INERT TO CHEMICALS DISTORTION.

PICTORAL VIEW OF TRANSVERSE SLOT

WEIGHT 0.6 PSY ROLL WIDTH 38 INCHES TENSILE LENGTH (50% ELONGATION) 15 IBS./IN. LENGTH (ULTIMATE) 20 LBS./IN. WIDTH (50% ELONGATION) 5 LBS./IN. WIDTH 10 LBS./IN. (ASTM D (ULTIMATE) 1682 - 6"STRIP) ULTRAVIOLET STABILITY

(1000 HRS. IN AN ATLAS ARC WEATHERMETER, ASTM

G 23, TYPE D IN ACCORDANCE WITH ASTM D 822)

SITE PREPARATION: AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN SHOULD BE INSPECTED PERIODICALLY TO CHECK FOR EROSION AND DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT

EROSION CONTROL MATTING & BLANKETS SLOPE STABILIZATION

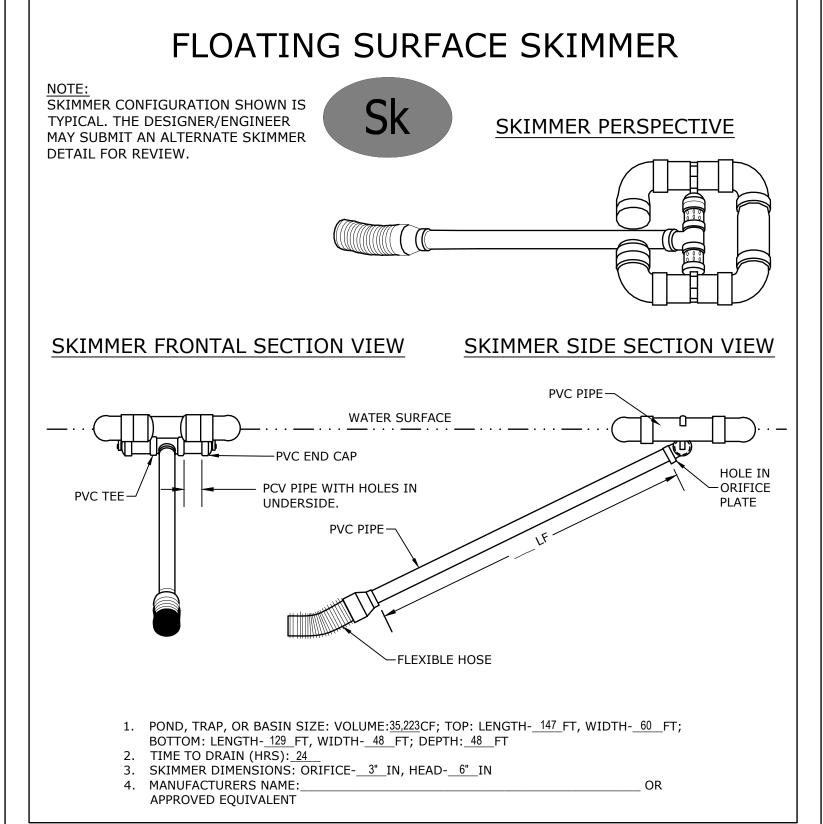
BLANKETS OR MATTING TO THE SOIL SURFACE, IF NECESSARY. WELDING, THERMAL OR POLYMER FUSION, OR THE PLACEMENT OF STAKING MATERIALS. TEMPORARY BLANKETS THIS INCLUDES STRAW, YARD. SLOPES REQUIRE EXCELSIOR MATTING WITH THE TOP SIDE OF FIBERS BETWEEN TWO HIGH STRENGTH, BIAXIALLY ORIENTED NETS EXCELSIOR, COCONUT FIBER, AND WOOD FIBER BLANKETS. STAPLES BOUND SECURELY TOGETHER BY PARALLEL LOCK STITCHING WITH SHALL BE USED TO ANCHOR TEMPORARY BLANKETS. U-SHAPED WIRE POLYOLEFIN, NYLON OR POLYESTER THREADS ARE ALL APPROPRIATE (11 GAUGE OR GREATER) STAPLES WITH LEGS AT LEAST 6 INCHES IN BIODEGRADABLE STAPLES CAN BE USED. STAPLES SHALL BE OF SUFFICIENT THICKNESS FOR SOIL PENETRATION WITHOUT UNDUE

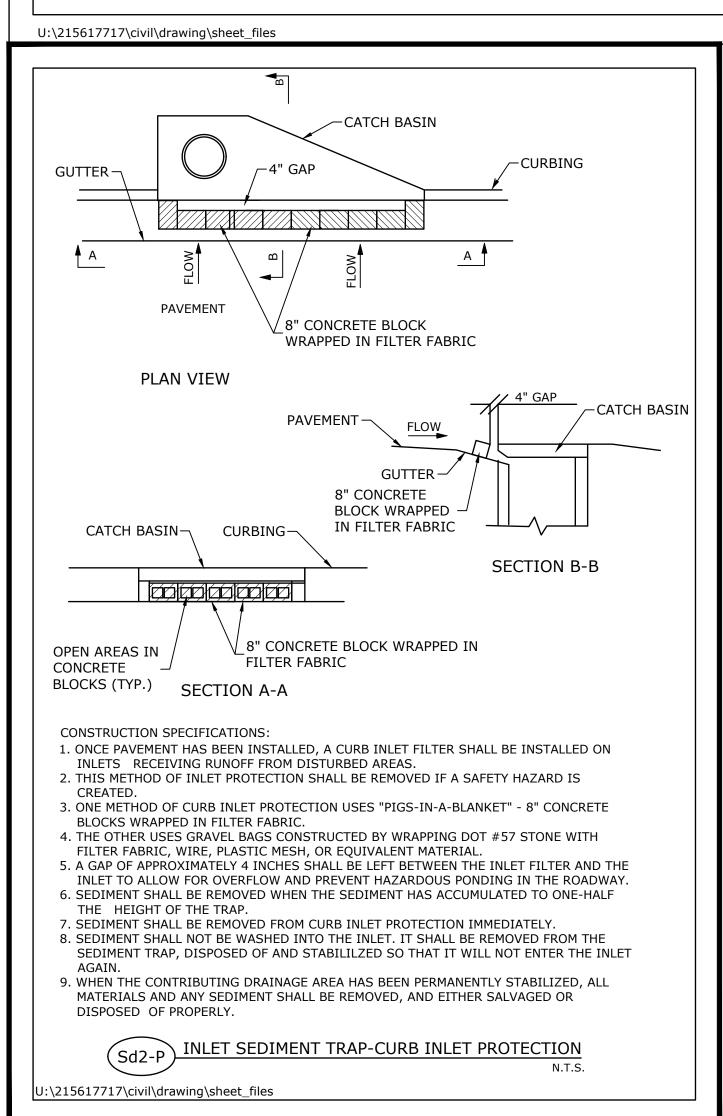
BLANKETS SHALL HAVE PHOTODEGRADABLE PLASTIC MESH, WITH A

NORMALLY ENCOUNTERED IN A NATURAL SOIL ENVIRONMENT. THE
PERMANENT MATTING: SOUND WOOD STAKES, 1X3 INCHES STOCK SAWN IN A TRIANGULAR SHAPE, SHALL BE USED. DEPENDING ON THE COMPACTION OF THE SOIL, SELECT STAKES WITH A LENGTH FROM 12 TO 18 INCHES. U-SHAPED STAPLES SHALL BE 11 GAUGE STEEL OR GREATER, WITH LEGS AT A MINIMUM OF 8 INCHES LENGTH WITH A 2 INCH CROWN.

> PLANTING: LIME, FERTILIZER, AND SEED SHALL BE APPLIED IN ACCORDANCE WITH SEEDING OR OTHER TYPE OF PLANTING PLAN COMPLETED TO INSTALLATION OF TEMPORARY COMBINATION BLANKETS OR JUTE MESH. FOR PERMANENT MATS, THE AREA MUST BE BROUGHT TO FINAL GRADE, PLOWED, LIMED, AND FERTILIZED. AFTER THE PERMANENT MAT HAS BEEN INSTALLED AND BACKFILLED THE ENTIRE AREA SHALL BE GRASSED. REFER TO SPECIFICATION Ds3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). INSTALLATION: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR LAYING AND STAPLING.

MAINTENANCE: ALL EROSION CONTROL BLANKETS AND MATTING UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE CONTACT OF THE SOIL STABILITATION MAT WITH THE SOIL SURFACE. REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.







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Revision	Ву	Appd	YYYY
Issued	Ву	Appd	YYYY
File Name: 17717C-700EC	 		2023

Permit/Seal



Client/Project Logo

Client/Project SALEM PARK - PARKING LOT DESIGN

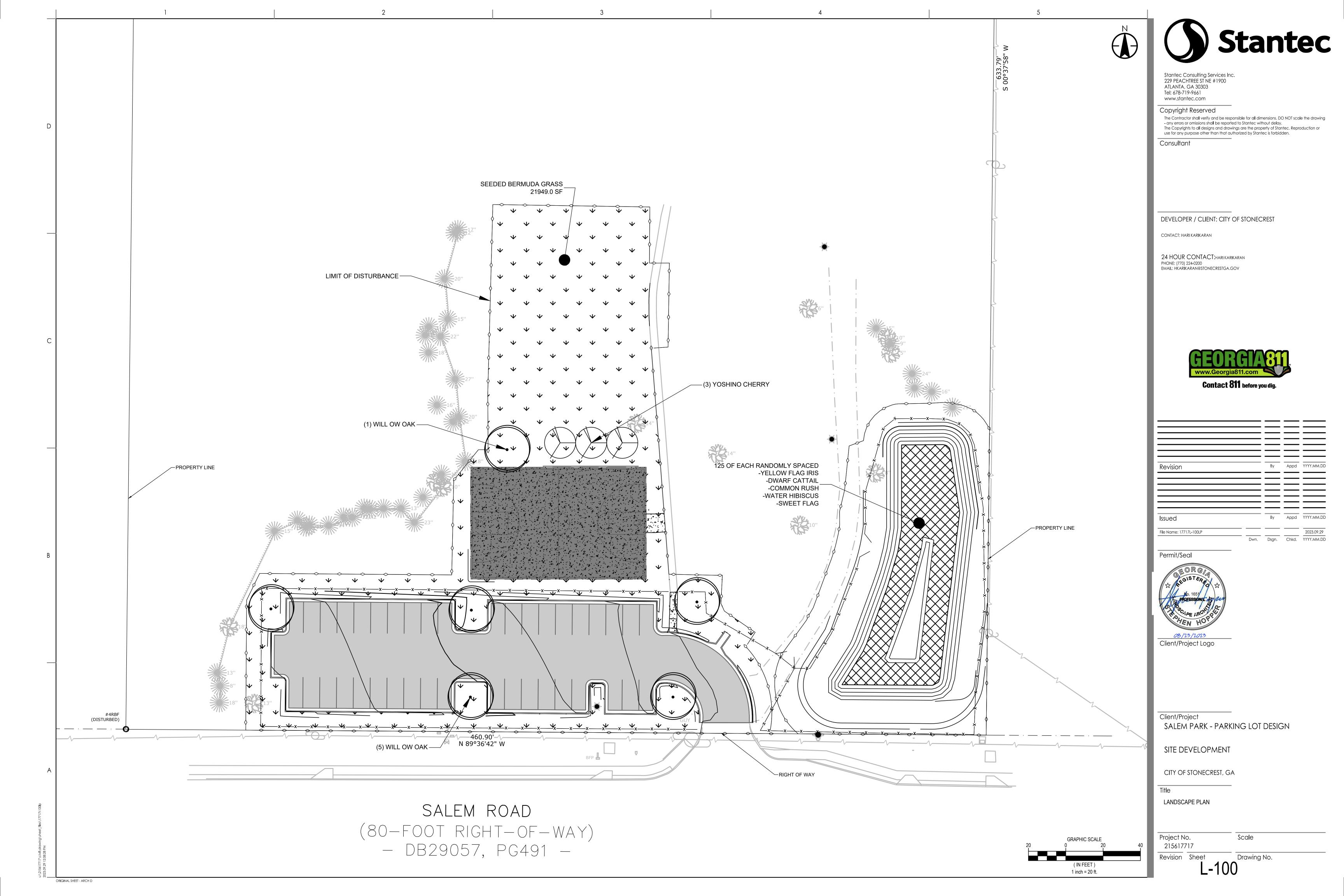
SITE DEVELOPMENT

CITY OF STONECREST, GA

EROSION CONTROL DETAILS

Project No. 215617717

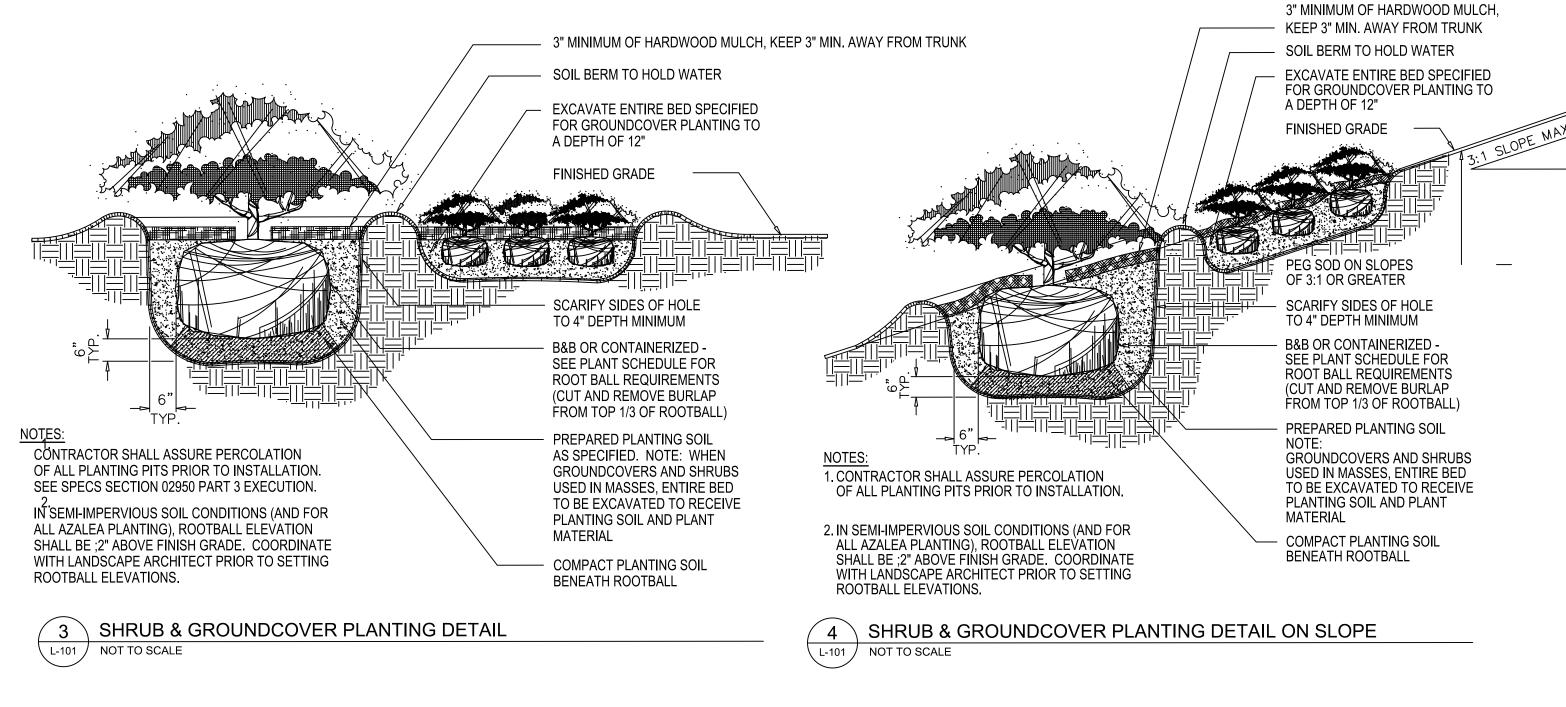
Revision Sheet



10. 1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION. 2. IN SEMI-IMPERVIOUS SOIL CON-DITIONS, ROOTBALL SHALL BE 4" ABOVE FINISH GRADE. COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO SETTING ROOTBALL ELEVATIONS. ADD STAKING AND WOVEN (NON-WIRE) STRAP 3" MIN. OF HARDWOOD MULCH, KEEP 3" MIN. AWAY FROM TRUNK SOIL BERM TO HOLD WATER FINISHED GRADE **B&B OR CONTAINERIZED -**SEE PLANT SCHEDULE FOR ROOT BALL REQUIREMENTS (CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL) SCARIFY SIDES OF HOLE TO 4" DEPTH MINIMUM PREPARED PLANTING SOIL AS SPECIFIED COMPACT PLANTING SOIL BENEATH ROOTBALL 1 \ TREE PLANTING DETAIL L-101 / NOT TO SCALE SET & MAINTAIN TREE IN A (PLUMB) TEMPORARILY BRACE TREE W/ (3) CLEAR PVC COATED VERTICAL POSITION. REMOVE ALL 1/16" GALV. STEEL CABLES. SECURE CABLE TO TREE DEAD & DAMAGED BRANCHES & ALL W/ BLACK WOVEN FABRIC STRAPS W/ LOOPED ENDS. SUCKER GROWTH. DO NOT CUT SECURE TO GROUND W/ (3) METAL UNDERGROUND CENTRAL LEADER. EARTH ANCHORS. LEAVE 1" SLACK IN CABLES. REMOVE ALL TEMPORARY ANCHORS, STRAPS, AND GUYS AFTER (1) YEAR. FOR B&B TREES, - CUT BACK WIRE —— WHITE FLAGGING TAPE (TYP) AND ROPE. PULL BACK TOP THIRD SET TOP OF ROOTBALL FLUSH W/ FINISH OF BURLAP & REMOVE, FOR CONTAINERS-GRADE, OR 2" HIGHER FOR AREAS THAT SEPARATE & SPREAD OUT ENCIRCLING ROOTS. HAVE HEAVY SOILS OR ARE POORLY DRAINED. SET BOTTOM OF ROOTBALL ON SOLID GROUND. 3" THICK HARDWOOD MULCH,-- LOOSEN SOIL MIN. 12" DEEP W/ KEEP 3" MIN. AWAY FROM TRUNK ROTO-TILER OR SHOVEL. ADD NECESSARY SOIL AMENDMENTS AND FERTILIZER. USE ONLY WATER TO SETTLE SOIL. MULCH AND PLANTING MIX MIN. 2 X BALL DIA. **CULTIVATED SOIL** 3 X BALL DIAM. (5 X BALL DIAM. FOR AREAS NOT TO RECEIVE TOPSOIL) 1. IF TREE IS MULT-STEM, MORE THAN ONE STEM MAY NEED GUYING 2. LOCATE GUYS WITHIN PLANT BED 3. ALL CABLE CLAMPS & BOLTS SHALL BE RUST RESISTANT MULTI-TRUNK TREE PLANTING DETAIL NOT TO SCALE ORIGINAL SHEET - ARCH D

GENERAL LANDSCAPE NOTES:

- 1. DEVIATION FROM THESE PLANS MUST BE SPECIFICALLY APPROVED BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 2. NOTIFY LANDSCAPE ARCHITECT OF ANY SITE CONDITIONS WHICH MAY NECESSITATE MODIFICATION TO THE PLAN. LANDSCAPE ARCHITECT SHALL, IF NECESSARY, MAKE "IN-FIELD MODIFICATIONS".
- FINE GRADING SHALL CONSIST OF HAND RAKED SMOOTH, FREE OF DEBRIS, ALL AREAS TO RECEIVE LANDSCAPE PLANTING AND/OR PINESTRAW MULCH.
- . CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS AND PROMPTLY REPORTING ANY DISCREPANCIES. CONTRACTOR TO PERFORM SOIL TESTS AS NECESSARY TO CONFORM TO SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND ANY DAMAGE HE IS RESPONSIBLE FOR THAT MAY OCCUR TO EXISTING UTILITIES.
- CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEM, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, RAIN SENSOR, BACKFLOW PREVENTOR, AND CONTROLLER, AND TO PROVIDE 100% COVERAGE OF ALL SOD, HYDRO-SEED AND PLANTING BEDS. COORDINATE IRRIGATION WITH OWNER'S REPRESENTATIVE.
- 7. MULCH ALL PLANTING BEDS WITH HARDWOOD MULCH TO A 3" DEPTH. KEEP 3" MIN. AWAY FROM TRUNKS/STEMS.
- 8. CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- . PLANT SCHEDULE WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITIES TAKEOFF USING DRAWINGS TO DETERMINE QUANTITIES TO HIS SATISFACTION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.
- 10. ROOT TYPE MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN. OTHER SPECIFICATIONS REMAINING UNCHANGED, EXCEPT IN THE CASE OF CONTAINER GROWN SPECIMEN TREES AS NDICATED IN THE TREE PLANTING SCHEDULE. HEIGHT, SPREAD, AND CALIPER SIZE TO TAKE PRECEDENCE OVER CONTAINER SIZE ON ALL PROPOSED PLANT MATERIAL.
- 11. ALL PLANTING BEDS SHALL BE HAND WEEDED OR SPRAYED PRIOR TO INSTALLATION OF MULCH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY MAINTAINING THE WORK (INCLUDING BUT NOT LIMITED TO: WATERING, MULCHING, SPRAYING, FERTILIZING, ETC) OF ALL PLANTING AREAS AND LAWNS PER PROJECT SPECS UNTIL TOTAL ACCEPTANCE OF WORK BY OWNER.
- 13. THE STANDARDS SET FORTH IN THE 'AMERICAN STANDARD FOR NURSERY STOCK' REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. ALL PLANTS MUST MEET MINIMUM SIZE NOTED ON THE MATERIALS SCHEDULE. TREES SHALL BE NO. 1 GRADE SPECIMEN AND SHRUBS SHALL BE HEAVY WELL SHAPED SPECIMENS.
- 14. CONTRACTOR SHALL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL MAKE REPLACEMENTS PROMPTLY AS PER DIRECTION OF THE OWNER.
- 15. ALL DECIDUOUS TREES, EXISTING AND PROPOSED SHALL BE PRUNED TO PROVIDE 4' MINIMUM CLEAR TRUNK UNLESS OTHERWISE NOTED.
- 16. PERCOLATION RATE OF 1" TO 2" AN HOUR PREFERRED.



STEEL EDGE RESTRAINT

NOTE:

EDGES

<u>. VIEW VEW WIEWNI</u>

L-101 / NOT TO SCALE

TRENCH EDGER DETAIL SHALL BE

USED AT LAWN AND PLANT BED

TRENCH EDGER

MULCH AS SPECIFIED

TRANSITION TO

EXISTING GRADE

OF PLANTING BED

MASTER PLANT LIST

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
6	QUERCUS PHELLOS	WILLOW OAK	2" CAL./B&B	SEE PLANS
3	PRUNUS YEDEONSIS	YOSHINO CHERRY	3" CAL./B&B	SEE PLANS
125	ACORUS CALAMUS	SWEET FLAG	1 GAL.	24"
125	HIBISCUS SABDARIFFA	WATER HIBISCUS	1 GAL.	24"
125	IRIS PSEUDACORUS	YELLOW FLAG IRIS	1 GAL.	24"
125	JUNCUS EFFUSUS	COMMON RUSH	1 GAL.	24"
125	TYPHA MINIMA	DWARF CATTAIL	1 GAL.	24"



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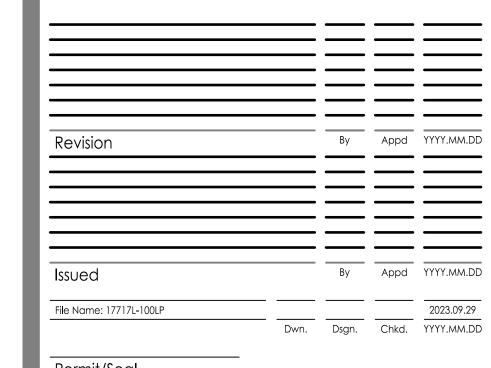
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Client/Project Logo

Client/Project
SALEM PARK - PARKING LOT DESIGN

SITE DEVELOPMENT

CITY OF STONECREST, GA

LANDSCAPE DETAILS

Project No. Scale 215617717

Revision Sheet Drawing No.