CLEARING, PAVING, GRADING, STORM DRAINAGE WATER DISTRIBUTION & SANITARY SEWER

OXFORD POOLER - PHASE 1 NW CORNER OF POOLER PARKWAY AND PINE BARREN ROAD POOLER, GEORGIA





3200 WINDY HILL ROAD SE, SUITE 900 WEST ATLANTA, GEORGIA 30339 PHONE No. (770) 818-4058

OCTOBER 5, 2023

NOVEMBER 2, 2023 ISSUED FOR CONSTRUCTION - JANUARY 11, 2024 IFC SET - OWNER REVISIONS #1 - FEBRUARY 19, 2024 IFC SET - OWNER REVISIONS #2 - APRIL 8, 2024 IFC SET - OWNER REVISIONS #3 - APRIL 30, 2024 IFC SET - OWNER REVISIONS #4 - DECEMBER 4, 2024



HUSSEY GAY BELL

Established 1958 -

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SCHEDULE OF DRAWINGS

<u>SITE DATA:</u> 1. SITE ADDRESS: PINE BARREN ROAD NOTES,	ABBREVIA TIONS SHALL BE CONFIRMED PRIOR TO ORDERING ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
 2. PROPERTY IDENTIFICATION NUMBER(S): 3. PROPERTY OWNER ADDRESS: POOLER, CHATHAM COUNTY, GA 5101101027, 5101101028, 5101101029 THE DAVIS GROUP 6728 LAMESTOWN DRIVE 	 ALL WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE POOLER SPECIFICATIONS AND REQUIREMENTS. ALL 4" - 12" DIAMETER WATER DISTRIBUTION PIPE SHALL BE PVC AWWA C-900 PRESSURE RATED
4. DEVELOPER ADDRESS: 0.XFORD PROPERTIES, LLC 3200 WINDY HILL ROAD SE, SUITE 900 WEST	CLASS 150, WITH DIMENSION RATIO 18 OR LOWER OR DUCTILE IRON PIPE CLASS 50 WHERE SHOWN MAINS SHALL BE BLUE IN COLOR. ALL WATER DISTRIBUTION PIPE GREATER THAN 12" IN DIAMETER SHA DUCTILE IRON PIPE. ALL FIRE HYDRANT LEAD LINES SHALL BE CLASS 50 DUCTILE IRON WITH CEMENT LI
ATLANTA, GA 30339 5. PARCEL(S) SIZE: 18.29 ACRES 6. SITE SIZE: 18.29 ACRES 7. SITE ZONING: MORGAN PUD – MULTI–FAMILY 8. SURVEY INFORMATION: HUSSEY GAY BELL 329 COMMERCIAL DRIVE	 GRAVITY SANITARY SEWER PIPE SHALL BE PVC - ASTM D 3034, SDR 26 OR DUCTILE IRON PIPE PR WHERE REQUIRED. MANHOLE TOP ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SET MANHOLE TOPS 2 GRADE IN UNPAVED AREAS AND FLUSH IN PAVED AREAS OR AS INDICATED ON MANHOLE DETAIL. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND A MAXIMUM COVER OF 60 INCH INCHES VERTICAL SEPARATION DISTANCE AND MINIMUM 10 FEET HORIZONTAL SEPARATION DISTANCE S
SAVANNAH, GA 31406 (912) 354–4626 JULY 27, 2022 122401600 NAVD 1988 NAD 1983 9. GEOTECHNICAL: TERRACON 2201 ROWLAND AVENUE SAVANNAH, GA 31404 AUGUST 19, 2022	 BETWEEN ALL WATER MAINS/LATERALS AND ALL STORM LINES AND SANITARY SEWER MAINS/LATERAL SHALL BE MADE FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL OF NEAREST LOCATION. WHENEY WATER MAIN SHALL BE INSTALLED ABOVE STORM AND SANITARY SEWER LINES AS POSSIBLE TO AVOID (7. WATER AND SANITARY SEWER SERVICE LINES TERMINATE FIVE FEET FROM THE BUILDING LINES UNDE UTILITY CONTRACTOR'S SCOPE OF WORK. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS OF V CONNECTIONS. THE SITE WORK UTILITY CONTRACTOR SHALL COORDINATE UTILITY INSTALLATIONS WITH E MECHANICAL AND FIRE PROTECTION CONTRACTORS. 8. THE CONTRACTOR SHALL COORDINATE CONNECTION ELEVATIONS OF ALL SERVICES LEAVING THE B INSTALLATION OF ANY UNDERGROUND UTILITY. 9. BACKELOW PREVENTEES AND WATER METERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUEACTURE.
ES225166 10. LOCAL ISSUING AUTHORITY: CITY OF POOLER 11. WATER AND SEWER PROVIDER: CITY OF POOLER 12. ROAD AND DRAINAGE OPERATOR: CITY OF POOLER 13. FLOOD ZONE: IN ACCORDANCE WITH FIRM MAP NO. 13051C0107H, EFFECTIVE DATE: AUGUST 16, 2018, THIS PROPERTY	 WATER METER SHALL BE PURCHASED FROM THE CITY OF POOLER. 10. DISPOSAL OF HIGHLY CHLORINATED WATER SHALL COMPLY WITH THE REQUIREMENTS OF GEORGIA STANDARD C651, LATEST REVISION. IF REQUIRED BY THE CITY OF POOLER, A REDUCING AGENT SI NEUTRALIZE THE CHLORINE. HIGHLY CHLORINATED WATER SHALL BE DISCHARGED INTO THE SANITARY SE
14. WETLANDS PERMIT: USACE PERMIT NO. SAS-2001-02780 APPROVED MARCH 24, 2014 TO BE EXTENDED THROUGH MARCH 31, 2024.	 SEE SANTAKT SEWER GENERAE NOTES AND WATER GENERAE NOTES IN DETAIL SHEETS. SEE DETAIL SHEET C6.3 FOR THRUST RESTRAINT DETAILS. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR C
GENERAL NOTES: 1. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED. 2. WORK IS NOT PERMITTED UNTIL THE PRE-CONSTRUCTION MEETING IS HELD AS REQUIRED. CONTACT CITY OF POOLER AT	14. FLUSH NEW WATER LINE USING A FULL—SIZE FLUSH WITH A MINIMUM VELOCITY OF 2.5 FT./SEC. FOR A 30 MINUTES OR UNTIL LINE IS PURGED OF FOREIGN MATERIAL AND WATER RUNS CLEAR. THIS SHALL BI DEFENSIVE TEST AND REFORE DISINFECTION
 912-748-6652 TO SCHEDULE THE PRE-CONSTRUCTION MEETING. 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE NOTICE OF INTENT. IF ONE HAS NOT BEEN PROVIDED/SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DO SO. THE CONTRACTOR SHALL BE 	15. CLEAN THE INTERIORS OF ALL PIPE BY BRUSHING, SWABBING OR WASHING OUT ALL DIRT BEFORE LAYIN 16. WATER DISTRIBUTION PIPE SHALL HAVE A #12 GAUGE, SINGLE STRAND, COPPER COATED STEEL TRACIL ALONG ITS LENGTH AND ATTACHED TO VALVES HYDRANTS CORPORATION STOPS AND CURB STOPS
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A COPY OF AND FAMILIARIZING THEMSELVES WITH THE FOLLOWING: GEOTECHNICAL REPORT, ENVIRONMENTAL SITE ASSESSMENT, WETLANDS ASSESSMENT, AND HAZARDOUS MATERIALS ASSESSMENT	17. ALL FIRE HYDRANTS SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE INS BARREL, WRAPPED AROUND THE BOTTOM FLANGE, AND ATTACHED TO THE WIRE ON THE WATER MAIN. 18. SANITARY SEWER SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE INS
5. CAD FILES OF THE DESIGN MAY BE OBTAINED BY THE CONTRACTOR UPON REQUEST, BUT THE LATEST ISSUED PLANS AND SPECIFICATIONS SHALL GOVERN IN CONFLICT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS.	LENGTH. SANITARY SEWER MANHOLES SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND TRACING THE MANHOLE CASTING AND ATTACHED TO THE WIRE ON THE SEWER MAIN. 19. A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE SHALL BE STRAPPED TO ALL FO
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD MARKINGS/LOCATES	ATTACHED TO ALL ASSOCIATED APPURTENANCES. 20. ALL GRAVITY SEWER LINES SHALL BE TELEVISED. PROVIDE A 360° VIEW OF ALL JOINTS AND ALL SERVIC LOT NUMBER AND DISTANCE BETWEEN MANHOLES. ALL TELEVISED INFORMATION SHALL BE PROVIDED
ARE IN AGREEMENT WITH THE APPROVED PLANS AND SPECIFICATIONS. IF THE FIELD LOCATIONS ARE FOUND TO BE IN CONFLICT OR IF UTILITIES ARE MARKED IN THE FIELD THAT ARE NOT SHOWN ON THE PLANS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY AND REQUEST DIRECTION. UNDERGROUND UTILITIES WERE LOCATED TO THE EXTENT PRACTICAL DUPING THE TOPOGRAPHIC SUBJEX RASED ON ORSERVARIES ABOVE CROUND	PRIOR TO INSTALLING PAVEMENT. 21. THE INSTALLATION OF ALL RESIDENTIAL WATER METERS INCLUDING METER, METER BOX, VALVES, FITTI PERFORMED BY THE UTILITY AT THE EXPENSE OF THE CUSTOMER REQUESTING SERVICE.
EVIDENCE AND FLAGGING BY OTHERS. HOWEVER, THE UTILITIES SHOWN MAY NOT BE THE TYPE INDICATED OR IN THE LOCATION SHOWN, AND OTHER UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS. FULL SUBSURFACE INVESTIGATION SHALL BE PERFORMED BY THE CONTRACTOR TO VERIFY LOCATION, TYPE, AND SIZE OF ALL	22. PIPE FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED DELIVERY AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. T TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER A DELIVERY FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES
UNDERGROUND UTILITIES. 7. THE CONTRACTOR SHALL COMPLETELY CLEAR AND GRUB ALL AREAS WITHIN THE LIMITS OF DISTURBANCE UNLESS INDICATED OTHERWISE.	23. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT S FROM INSIDE THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE APPROVED MEANS DURING AND AFTER LAYING CARE SHALL BE TAKEN TO PREVENT DIRT FROM FN
 ALL UTILITY CONSTRUCTION SHALL BE PERFORMED BY A UTILITY CONTRACTOR LICENSED IN THE STATE OF GEORGIA. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS. ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED BY SEEDING. FERTILIZING. MULCHING AND WATERING AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER. 	SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE ENDS OF THE PIPE SHALL BE CLO MEANS, AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE. 24. SANITARY SEWER LATERALS THAT TIE INTO MANHOLES SHALL BE INSTALLED WITH THE CROWN OF TH
11. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE STATE SOIL AND WATER CONSERVATION COMMITTEE'S "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA." ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED ON A REGULAR BASIS AND SHALL BE REMOVED BY THE CONTRACTOR UPON ACCEPTANCE OF THE SITE BY THE OWNER.	TO, OR HIGHER THAN, THE CROWN OF SEWER MAIN. 25. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE M SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
 CONTRACTOR SHALL USE A TRENCH BOX ON ALL UTILITIES MORE THAN SIX FEET IN DEPTH. STACKABLE TRENCH BOXES SHALL BE USED WHERE DEPTH REQUIRES SUCH. 6" IRRIGATION CONDUITS SHALL BE PLACED AS SHOWN ON THE PLANS. IRRIGATION CONDUITS SHALL BE SCHEDULE 40 	26. ALL MATERIALS USED THAT COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHAI AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE W NATIONAL STANDARDS INSTITUTE/ NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDA
PVC (WHITE IN COLOR) AND SHALL EXTEND 3' (MIN.) – 5' (MAX.) BEYOND BACK OF CURB. 14. ALL CONDUITS SHALL BE INSTALLED WITH 24"(MIN.)–30"(MAX) COVER (OR AS REQUIRED BY THE UTILITY). 15. ONE (1) #3 REBAR, 24" IN LENGTH SHALL BE INSTALLED AT EACH CONDUIT END WITH 18" EXPOSED AND 6" OF BURY.	 27. ALL SANITARY SEWER MANHOLE INTERIOR AND EXTERIOR WALLS SHALL BE COATED WITH 1/8 INCH OF IN ACCORDANCE TO THE CITY OF POOLER DESIGN STANDARDS. 28. ALL PROPOSED METERS SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
16. ONE (1) 1"x2" WOODEN STAKE (PRESSURE TREATED) SHALL BE INSTALLED AT EACH CONDUIT END WITH A MINIMUM OF 24" EXPOSED AND A MINIMUM OF 12" OF BURY. THE STAKES SHALL BE PAINTED WHITE FOR IRRIGATION CONDUITS AND GRAY FOR ELECTRICAL CONDUITS.	29. ALL PROPOSED SEWER MANHOLES SHALL BE A MINIMUM OF 4 FT DIAMETER AND SHALL BE COATED COAL TAR EPOXY (INTERIOR AND EXTERIOR) TO PREVENT LEAKAGE PER CITY OF POOLER SPECIFICATION 30. SANITARY SEWER MANHOLE COVERS SHALL BE CAST IRON WITH "SANITARY" WORD CAST ON THE TOP C
17. EACH CONDUIT END SHALL BE CAPPED (NO GLUE). 18. PULL CORDS SHALL RUN THROUGH PIPE AND EXIT A PRE-DRILLED HOLE IN CAP ON EITHER END. 19. ELECTRICAL COMPONENTS WITHIN THESE PLANS ARE PROVIDED BY GEORGIA POWER. THESE PLANS MAY NOT REPRESENT	MANHOLE STEPS SHALL BE ENCASED IN POLYPROPYLENE PLASTIC. 31. NOTIFY CITY'S PERSONNEL 48 HOURS BEFORE TAPPING OPERATION OF WATER & SEWER LINES. 32. A FIRE PROTECTION SYSTEM IS PROPOSED FOR THE PROJECT.
ALL WORK REQUIRED TO COMPLETE THE INSTALLATION OF ELECTRICAL COMPONENTS OF THE PROJECT. CONTRACTOR Shall coordinate construction/bidding of any and all electrical components of this project with georgia power prior to bidding to ensure 100% completion. 100% completion means acceptance of electrical components by georgia power.	33. AN IRRIGATION SYSTEM IS PROPOSED FOR THE PROJECT. IT SHALL NOT BE INSTALLED WITHIN THE PUBL 34. THERE SHALL BE A MINIMUM OF 2' OF SEPARATION BETWEEN ALL FITTINGS ON THE WATER MAIN. 35. THE EXISTING WATER METERS AND LATERALS SHALL BE REMOVED. THEY SHALL BE PROPERLY CAPPED
20. ALL CASTINGS ON SITE SHALL BE AMERICAN MADE. 21. ACCESS FOR FIRE FIGHTING: 21.1. REQUIRED ACCESS: APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR	AND WITNESSED BY THE CITY PRIOR TO COVERING UP. 36. ALL WATER MAINS AND LATERALS SHALL BE PRIVATE. THE CITY OF POOLER WILL MAINTAIN INSIDE OF N 37. ALL SANITARY SEWER MAINS AND LATERALS SHALL BE PRIVATE
DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED	38. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN PARALLEL STORM SEWER, WATER DISTRIBUTI SEWER PIPES SHALL BE 10 FT. 39. HDPE L&L COVER TO BE PROVIDED FOR SANITARY SEWER MANHOLES
21.2. WATER SUPPLY FOR FIRE CONNECTION: WHEN REQUIRED. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.	40. ALL UTILITY EASEMENTS SHALL BE A MINIMUM OF 15'. 41. ALL WATER PIPE 3" DIAMETER OR LESS SHALL BE POLYETHYLENE TYPE III, CLASS C, CATEGORY 5, GRA
 <u>STAKING NOTES:</u> ALL RADII ARE 5' AND ALL ANGLES ARE 90° UNLESS OTHERWISE SHOWN ON THE PLANS. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN ON THE PLANS. LAYOUT FOR MANHOLES, INLETS, ETC., ARE NOT SHOWN ON THIS PLAN. COORDINATES FOR SUCH STRUCTURES CAN BE PROVIDED TO THE SELECTED CONTRACTOR UPON REQUEST. 	ADA ACCESSIBILITY NOTES: 1. ALL MARKED ADA ACCESSIBLE PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE 1:50 SLOPE IN ANY DIRECTION.
4. THE CONTRACTOR SHALL UTILIZE EXISTING BENCHMARKS AND CONTROL POINTS SHOWN ON THE PLANS TO ESTABLISH VERTICAL AND HORIZONTAL CONTROL ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE BENCHMARKS DURING THE CONSTRUCTION PROJECT AND FOR BEARING ANY EXPENSE RESULTING FROM UNAUTHORIZED REMOVAL OR REPLACEMENT OF BENCHMARKS. WHEN A PERMANENT BENCHMARK IS LOCATED SUCH THAT IT MUST BE REMOVED TO COMPLETE THE PROJECT, THE CONTRACTOR SHALL ESTABLISH SUCH TEMPORARY BENCHMARKS AS HE MAY DECUMPE DECORD TO DEMONANCE THE DEMONDATION FOR THE LOCATION.	 UNLESS SHOWN OTHERWISE, ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 RUNNING (LONGITU NO MORE THAN A 1:50 CROSS (TRANSVERSE) SLOPE. IF CONTRACTOR NOTICES ANY DISCREPANCIES BETWEEN THE DESIGN AND ANY OF THE ABOVE SLOPE RI THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER PRIOR TO POURING ANY CONCRETE SO CAN BE FOUND.
DENTIFICATION AND ELEVATION OF ANY TEMPORARY BENCHMARK. THE CONTRACTOR SHALL PROVIDE THE LOCATION, IDENTIFICATION AND ELEVATION OF ANY TEMPORARY BENCHMARK ESTABLISHED TO THE OWNER AND ENGINEER. 5. DUMPSTERS SHALL BE SCREENED FROM 4 SIDES, WITH THE FOURTH SIDE BEING A GATE. THE ENCLOSURE AND GATE SHALL BE A MATERIAL COMPATIBLE WITH THAT OF THE PRIMARY STRUCTURE. THIS ENCLOSURE SHALL BE A MINIMUM HEIGHT OF 6 FT.	<u>SPECIAL NOTES:</u> 1. ALL EARTHWORK FOR ROADWAYS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS. <u>AS-BUILT REQUIREMENTS:</u> 1. CONTRACTOR SHALL FURNISH AS-BUILT DATA TO THE ENGINEER MEETING THE REQUIREMENTS OF TH
PAVING. GRADING AND DRAINAGE NOTES: 1. CONTOURS SHOWN ARE BASED ON FINISHED GRADES AND INCLUDE SIDEWALK AND PAVEMENT SURFACING. FINAL EARTHWORK CONTOURS IN AREAS TO BE COVERED BY OTHER SURFACES WILL BE DIFFERENT FROM THOSE SHOWN ON THIS PLAN. 2. CONTOURS SHOWN ON THIS SHEET ARE FOR CENERAL CURPANICE AND INFORMATIONAL SURPACES. THE CONTOURS	FOR CLOSE-OUT. THESE REQUIREMENTS ARE SUMMARIZED AS FOLLOWS: a.WATER SYSTEM - LOCATION AND SIZE OF WATER VALVES, METERS, BACKFLOW PREVENTERS, INDICATORS, TEES, BENDS AND OTHER WATER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR THE ALL SUCH FEATURES. FOR WATER MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDIC SPOT FLEVATIONS ON THE TOP OF PIPE ADDITIONALLY A DISTANCE TO AN AD ACENT DEPUANT
2. CONTICUING SHOWING ON THIS SHELL AND TON GENERAL GOLDANCE AND INFORMATIONAL PORPOSES. THE CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH ELEVATIONS SHOWN. IN CASES OF CONFLICT BETWEEN SPOT ELEVATIONS AND CONTOURS, THE SPOT ELEVATIONS SHALL GOVERN. 3. ALL PROPOSED PAVEMENT SHALL BE SUPPORTED BY A 24" MINIMUM THICKNESS SUBBASE COMPOSED OF COMPACTED	BE PROVIDED FOR ALL VALVES. b.SEWER SYSTEM - LOCATION OF MANHOLES, CLEAN-OUTS, FORCE MAIN AIR RELEASE OR OTHER TY MAIN BENDS, AND OTHER SEWER SYSTEM FEATURES. TO INCLUDE ELEVATIONS FOR MANHOLE TOPS
SUITABLE MATERIAL ABLE TO PASS PROOF ROLLING. DEFINITIONS OF SUITABLE MATERIAL, COMPACTION, AND PROOF ROLLING ARE PROVIDED IN THE PROJECT SPECS. UNDERCUTTING AND BACKFILLING OF UNSUITABLE MATERIAL, IF PRESENT, TO ESTABLISH THE REQUIRED SUBBASE SHALL BE INCLUDED IN THE BASE BID. THE GEOTECHNICAL REPORT IS INCLUDED WITH THE CONTRACT DOCUMENTS. 4. LOAD BEARING AND STRUCTURAL FILLS SHALL BE APPROVED SUITABLE MATERIAL AS DEFINED IN THE PROJECT SPECS.	THE CONNECTING PIPES, AND THE TOP OF PIPE AT ALL FORCE MAIN FEATURES. FOR SEWER AND LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TO PIPE. ADDITIONALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR A c.STORM SYSTEM — LOCATION OF MANHOLES, INLETS, DRAINS, OUTLET CONTROL STRUCTURES, CLEAN BENDS, AND OTHER STORM SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR STRUCTURE TOPS, THR
WASTE MATERIALS MAY BE USED FOR FLUSHING OF SHOULDER OR CONSTRUCTION OF PEDESTRIAN OR LANDSCAPED AREAS IF THEY CAN BE STABILIZED, SUPPORT PLANT GROWTH, AND MEET THE REQUIRED DEGREE OF COMPACTION. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.	AND INVERTS OF THE CONNECTING PIPES. FOR STORM PIPES, THE LENGTH, SIZE AND PIPE M/ INDICATED. FOR OUTLET CONTROLS, THE SIZE AND ELEVATION OF ANY WEIRS, PIPES, ORIFICES, REST OTHER CONTROLLING FEATURE SHALL BE PROVIDED. d.DETENTION AND WATER QUALITY BASINS – FOR ALL PONDS AND BASINS, LOCATIONS AND ELEV PROVIDED FOR THE TOP OF BANK, TOE OF SLOPE, BOTTOM, WATER ELEVATION AND ANY OTH
 3. CONTINUETON STALL INSTALL AND MAINTAIN TEMPORART SEDIMENT BARKIERS (SILT FENCE OR GRAVEL BAGS) AROUND ALL DRAINAGE INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM. 7. SEE SPECIFICATIONS FOR REQUIREMENTS FOR CONTROL, CONSTRUCTION AND EXPANSION JOINTS IN CONCRETE SIDEWALKS AND CURB AND GUTTER. 8. INVERT ELEVATIONS SHOWN ON THE PLANS ARE TO THE INVERT OF THE LOWEST PIPE UNLESS SHOWN OTHERWISE. 	NECESSARY TO ALLOW THE AS-BUILT VOLUME OF THE BASIN TO BE CALCULATED. e.PAVEMENT - SPOT ELEVATIONS SHALL BE PROVIDED ON ALL NEW PAVEMENT, WITH THE SPOT ELE BE TAKEN IN THE SAME LOCATIONS AS THE PROPOSED SPOT GRADES SHOWN ON THE PAVING PLAN.
 9. THE CONTRACTOR SHALL INSTALL ALL DRAINAGE PIPE PER MANUFACTURER'S RECOMMENDATIONS. IF A CONFLICT BETWEEN THE PLANS AND MANUFACTURER'S RECOMMENDATIONS ARISES, PLEASE NOTIFY THE DESIGN ENGINEER/OWNER IMMEDIATELY AND DISCONTINUE WORK UNTIL FURTHER NOTICE IS GIVEN. 4. AND DISCONTINUE WORK UNTIL FURTHER NOTICE IS GIVEN. 	
10. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CLASS III UNLESS OTHERWISE NOTED 11. CATCH CURB AND GUTTER SHALL BE USED WHERE THE DRAWINGS INDICATE THAT THE GUTTER IS TO CARRY WATER. PITCHED CURB AND GUTTER SHALL BE USED WHERE THE DRAWINGS INDICATE THE WATER SHALL DRAIN AWAY FROM THE	
GUTTER. TRANSTITIONS BETWEEN THE TWO CONDITIONS SHALL BE MADE AS SMOOTHLY AS POSSIBLE (THROUGH A MINIMUM DISTANCE OF 5'), USUALLY THROUGH A RADIUS. 12. GUTTER LINE GRADES (INCLUDING GUTTERS IN CREST AND SAG VERTICAL CURVES) SHALL BE ADJUSTED TO MEET A	 IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES, STANDARDS, DETAILS, THE CITY OF POOLER STANDARDS ARE TO TAKE PRECEDENCE. ALL ROAD SIGNAGE AND PAVEMENT MARKINGS SHALL BF IN ACCORDANCE WITH MUTCH SPECIFICATIONS
MINIMUM LONGITUDINAL SLOPE OF 0.30%. 13. THE WIDENED AREAS (NEW SECTIONS OF PAVEMENT ONLY; THIS DOES NOT INCLUDE OVERLAY AREAS) FOR PINE BARREN ROAD SHALL HAVE THE COMPLETE SUBGRADE REMOVED AND REPLACED WITH SELECT BACKFILL. 14. ALL ROADS SHALL BE CONSTRUCTED TO CITY OF POOLER STANDARDS (PUBLIC OR PRIVATE).	 THERMOPLASTIC PAVEMENT MARKINGS ARE REQUIRED WITHIN RIGHT OF WAY. TRAFFIC SIGNS INSTALLED INSIDE THE PUBLIC R/W MUST HAVE HIGH INTENSITY OR DIAMOND GRADE SHI THE OWNER MUST CERTIFY THAT ALL LAND DISTURBING AND DEVELOPMENT ACTIVITIES WILL ACCORDANCE WITH THE APPROVED STORMWATER MANAGEMENT DESIGN PLAN. THE DESIGNER MUST CERTIFY THAT THE DESIGN MEETS THE REQUIREMENTS OF THE CITY OF POOLER
SIGNAGE AND STRIPING NOTES: 1. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE MANUAL IDENTIFICATION AND DIMENSIONS ARE SHOWN ON STAKING SHEETS FOR EACH REQUIRED SIGN. THE ORIENTATION OF EACH SIGN FROM AN APPROACHING DRIVER'S POINT OF VIEW IS ALSO SHOWN. SIGN AND SUPPORT POST MATERIAL AND INSTALLATION SHALL CONFORM TO THE DEPTIMENT SECTIONS OF THE CURRENT EDITION OF	EDITION OF THE COASTAL STORMWATER SUPPLEMENT TO THE GEORGIA STORMWATER MANAGEMENT I RELEVANT LOCAL ADDENDA. POOLER UTILITY REQUIREMENTS: 1. A #12 GAUGE SOLID TRACING WIRE SHALL BE INSTALLED ON ALL WATER MAINS, WATER LATERALS, FIR HYDRANTS, AND/OR BLOW OFFS AND ALONG ALL SANITARY SEWER LINES, LATERALS, AND FORCE MAINS
THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. 2. ALL PAVEMENT MARKINGS (EXCLUDING PARKING STRIPES AND H/C PARKING) SHALL BE THERMOPLASTIC (WITH GLASS BEADS), MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH GEORGIA DOT SPECIFICATIONS LATEST EDITION	TUDLER WATER REQUIREMENTS: 1. ALL VALVES SHALL HAVE A CONCRETE MONUMENT WITH "W/VALVE" INSCRIBED ON THE TWO SIDES (INSTALLED NO MORE THAN 6" AWAY FROM THE VALVE. DOOLER SANITABY SEWED DECUMPERATION:
3. ALL STREET SIGN LETTERING SHALL BE A MINIMUM OF 6" IN HEIGHT. 4. ALL SIGNAGE WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DIAMOND GRADE OR HIGH INTENSITY.	1. ALL SANITARY SEWER LATERALS SHALL BE MINIMUM 4" DIAMETER. POOLER LANDSCAPE REQUIREMENTS: 1. TREES SHALL NOT BE PLANTED WITHIN 10 FEET OF ANY UNDERGROUND UTILITY OR STORM DRAIN.

WATER AND SEWER NOTES: 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONNECTIONS OF SITE UTILITIES TO PLUMBING STUB THE BEGINNING OF CLEARING AND GRADING.

REVIATIONS, SYMBOLS & LEGEND: VERTICAL AND HORIZONTAL LOCATIONS SHALL BE CONFIRMED PRIOR TO ORDERING ANY SITE MATERIALS.

IES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. SEWER CONSTRUCTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CURRENT CITY OF ATIONS AND REQUIREMENTS.

DIAMETER WATER DISTRIBUTION PIPE SHALL BE PVC AWWA C-900 PRESSURE RATED PIPE, PRESSURE DIMENSION RATIO 18 OR LOWER OR DUCTILE IRON PIPE CLASS 50 WHERE SHOWN. ALL PVC WATER BLUE IN COLOR. ALL WATER DISTRIBUTION PIPE GREATER THAN 12" IN DIAMETER SHALL BE CLASS 250 E. ALL FIRE HYDRANT LEAD LINES SHALL BE CLASS 50 DUCTILE IRON WITH CEMENT LINING. Y SEWER PIPE SHALL BE PVC - ASTM D 3034, SDR 26 OR DUCTILE IRON PIPE PRESSURE CLASS 50

LEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SET MANHOLE TOPS 2" ABOVE FINISHED ED AREAS AND FLUSH IN PAVED AREAS OR AS INDICATED ON MANHOLE DETAIL. S SHALL HAVE A MINIMUM COVER OF 36 INCHES AND A MAXIMUM COVER OF 60 INCHES. A MINIMUM 18 SEPARATION DISTANCE AND MINIMUM 10 FEET HORIZONTAL SEPARATION DISTANCE SHALL BE PROVIDED TER MAINS/LATERALS AND ALL STORM LINES AND SANITARY SEWER MAINS/LATERALS. MEASUREMENTS FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL OF NEAREST LOCATION. WHENEVER POSSIBLE, THE

LL BE INSTALLED ABOVE STORM AND SANITARY SEWER LINES AS POSSIBLE TO AVOID CONFLICTS. ITARY SEWER SERVICE LINES TERMINATE FIVE FEET FROM THE BUILDING LINES UNDER THE SITE WORK TOR'S SCOPE OF WORK. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS OF WATER AND SEWER IE SITE WORK UTILITY CONTRACTOR SHALL COORDINATE UTILITY INSTALLATIONS WITH BUILDING PLUMBING, FIRE PROTECTION CONTRACTORS.

SHALL COORDINATE CONNECTION ELEVATIONS OF ALL SERVICES LEAVING THE BUILDING PRIOR TO ANY UNDERGROUND UTILITY. INTERS AND WATER METERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL BE PURCHASED FROM THE CITY OF POOLER.

IGHLY CHLORINATED WATER SHALL COMPLY WITH THE REQUIREMENTS OF GEORGIA E.P.D. AND AWWA , LATEST REVISION. IF REQUIRED BY THE CITY OF POOLER, A REDUCING AGENT SHALL BE USED TO CHLORINE. HIGHLY CHLORINATED WATER SHALL BE DISCHARGED INTO THE SANITARY SEWER SYSTEM. WER GENERAL NOTES AND WATER GENERAL NOTES IN DETAIL SHEETS. T C6.3 FOR THRUST RESTRAINT DETAILS.

TION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP (OR APPROVED USED TO FORM A WATERTIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID. ER LINE USING A FULL-SIZE FLUSH WITH A MINIMUM VELOCITY OF 2.5 FT./SEC. FOR A MINIMUM TIME OF INTIL LINE IS PURGED OF FOREIGN MATERIAL AND WATER RUNS CLEAR. THIS SHALL BE DONE AFTER THE ND BEFORE DISINFECTION.

NORS OF ALL PIPE BY BRUSHING, SWABBING OR WASHING OUT ALL DIRT BEFORE LAYING. ION PIPE SHALL HAVE A #12 GAUGE, SINGLE STRAND, COPPER COATED STEEL TRACING WIRE INSTALLED H AND ATTACHED TO VALVES, HYDRANTS, CORPORATION STOPS AND CURB STOPS.

ITS SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE INSTALLED ALONG THE D AROUND THE BOTTOM FLANGE, AND ATTACHED TO THE WIRE ON THE WATER MAIN. SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE INSTALLED ALONG ITS Y SEWER MANHOLES SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND TRACING WIRE ATTACHED TO

STING AND ATTACHED TO THE WIRE ON THE SEWER MAIN. ISULATED SINGLE STRAND COPPER TRACING WIRE SHALL BE STRAPPED TO ALL FORCEMAIN PIPE AND ASSOCIATED APPURTENANCES.

VER LINES SHALL BE TELEVISED. PROVIDE A 360° VIEW OF ALL JOINTS AND ALL SERVICE FITTINGS NOTING D DISTANCE BETWEEN MANHOLES. ALL TELEVISED INFORMATION SHALL BE PROVIDED TO THE ENGINEER ING PAVEMENT. N OF ALL RESIDENTIAL WATER METERS INCLUDING METER. METER BOX, VALVES, FITTINGS, ETC. WILL BE

HE UTILITY AT THE EXPENSE OF THE CUSTOMER REQUESTING SERVICE. ALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF TORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL ED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL ROM DIRT AND FOREIGN MATTER AT ALL TIMES.

DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED E PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY S DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT WHEN PIPE LAYING IS NOT IN PROGRESS, THE ENDS OF THE PIPE SHALL BE CLOSED BY APPROVED TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE. LATERALS THAT TIE INTO MANHOLES SHALL BE INSTALLED WITH THE CROWN OF THE LATERAL EQUAL

HAN, THE CROWN OF SEWER MAIN. ATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS STIBLE MATERIAL ARRIVES ON THE SITE.

SED THAT COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH THE AMERICAN ARDS INSTITUTE/ NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61). EWER MANHOLE INTERIOR AND EXTERIOR WALLS SHALL BE COATED WITH 1/8 INCH OF COAL TAR EPOXY TO THE CITY OF POOLER DESIGN STANDARDS.

ETERS SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY. EWER MANHOLES SHALL BE A MINIMUM OF 4 FT DIAMETER AND SHALL BE COATED WITH 1/8 INCH OF (INTERIOR AND EXTERIOR) TO PREVENT LEAKAGE PER CITY OF POOLER SPECIFICATIONS. MANHOLE COVERS SHALL BE CAST IRON WITH "SANITARY" WORD CAST ON THE TOP OF THE FRAME. THE SHALL BE ENCASED IN POLYPROPYLENE PLASTIC.

ON SYSTEM IS PROPOSED FOR THE PROJECT. YSTEM IS PROPOSED FOR THE PROJECT. IT SHALL NOT BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY. A MINIMUM OF 2' OF SEPARATION BETWEEN ALL FITTINGS ON THE WATER MAIN.

TER METERS AND LATERALS SHALL BE REMOVED. THEY SHALL BE PROPERLY CAPPED OFF AT THE MAIN BY THE CITY PRIOR TO COVERING UP. S AND LATERALS SHALL BE PRIVATE. THE CITY OF POOLER WILL MAINTAIN INSIDE OF METER BOXES.

WER MAINS AND LATERALS SHALL BE PRIVATE. RIZONTAL SEPARATION DISTANCE BETWEEN PARALLEL STORM SEWER, WATER DISTRIBUTION, AND SANITARY ALL BE 10 FT.

E 3" DIAMETER OR LESS SHALL BE POLYETHYLENE TYPE III, CLASS C, CATEGORY 5, GRADE PE34, SDR 11.

A ACCESSIBLE PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A NY DIRECTION. OTHERWISE, ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 RUNNING (LONGITUDINAL) SLOPE AND 1:50 CROSS (TRANSVERSE) SLOPE. IOTICES ANY DISCREPANCIES BETWEEN THE DESIGN AND ANY OF THE ABOVE SLOPE REQUIREMENTS, IT IS R'S RESPONSIBILITY TO CONTACT THE ENGINEER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION

ILL FURNISH AS-BUILT DATA TO THE ENGINEER MEETING THE REQUIREMENTS OF THE CITY OF POOLER THESE REQUIREMENTS ARE SUMMARIZED AS FOLLOWS: 1 – LOCATION AND SIZE OF WATER VALVES, METERS, BACKFLOW PREVENTERS, HYDRANTS, POST ES, BENDS AND OTHER WATER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR THE TOP OF PIPE AT TURES. FOR WATER MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH

ONS ON THE TOP OF PIPE. ADDITIONALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL FOR ALL VALVES. - LOCATION OF MANHOLES, CLEAN-OUTS, FORCE MAIN AIR RELEASE OR OTHER TYPE VALVES, FORCE AND OTHER SEWER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR MANHOLE TOPS AND INVERTS OF NG PIPES, AND THE TOP OF PIPE AT ALL FORCE MAIN FEATURES. FOR SEWER AND FORCE MAINS, THE

AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TOP OF FORCE MAIN ALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR ALL VALVES. - LOCATION OF MANHOLES, INLETS, DRAINS, OUTLET CONTROL STRUCTURES, CLEAN-OUTS, TEES AND THER STORM SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR STRUCTURE TOPS, THROATS, FLOW LINES, OF THE CONNECTING PIPES. FOR STORM PIPES, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE OUTLET CONTROLS, THE SIZE AND ELEVATION OF ANY WEIRS, PIPES, ORIFICES, RESTRICTOR PLATES OR

ULLING FEATURE SHALL BE PROVIDED. ND WATER QUALITY BASINS - FOR ALL PONDS AND BASINS, LOCATIONS AND ELEVATIONS SHALL BE R THE TOP OF BANK, TOE OF SLOPE, BOTTOM, WATER ELEVATION AND ANY OTHER FEATURES AS ALLOW THE AS-BUILT VOLUME OF THE BASIN TO BE CALCULATED. SPOT ELEVATIONS SHALL BE PROVIDED ON ALL NEW PAVEMENT, WITH THE SPOT ELEVATION POINTS TO

REQUIREMENTS:

TLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES, STANDARDS, SPECIFICATIONS OR Y OF POOLER STANDARDS ARE TO TAKE PRECEDENCE. E AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD SPECIFICATIONS. AVEMENT MARKINGS ARE REQUIRED WITHIN RIGHT OF WAY.

ISTALLED INSIDE THE PUBLIC R/W MUST HAVE HIGH INTENSITY OR DIAMOND GRADE SHEETING. ST CERTIFY THAT ALL LAND DISTURBING AND DEVELOPMENT ACTIVITIES WILL BE COMPLETED IN THE APPROVED STORMWATER MANAGEMENT DESIGN PLAN. JST CERTIFY THAT THE DESIGN MEETS THE REQUIREMENTS OF THE CITY OF POOLER AND THE LATEST COASTAL STORMWATER SUPPLEMENT TO THE GEORGIA STORMWATER MANAGEMENT MANUAL, AND ANY ADDFNDA.

REMENTS: LID TRACING WIRE SHALL BE INSTALLED ON ALL WATER MAINS, WATER LATERALS, FIRE HYDRANTS, POST OR BLOW OFFS AND ALONG ALL SANITARY SEWER LINES, LATERALS, AND FORCE MAINS. EMENTS:

LL HAVE A CONCRETE MONUMENT WITH "W/VALVE" INSCRIBED ON THE TWO SIDES OF THE MONUMENT, RE THAN 6" AWAY FROM THE VALVE. ER REQUIREMENTS;

<u>EMOLITION AND CLEARING NOTES:</u> . EACH TREE IDENTIFIED FOR PRESERVATION SHALL BE MARKED WITH BLUE RIBBON ENCIRCLING THE TREE TRUNK PRIOR TO

UTILITY CONTACTS:

WATER & SEWER MR. JOHN WINN CITY OF POOLER 100 US HIGHWAY 80 SW POOLER, GEORGIA 31322 (912) 748-7261

ELECTRIC MS. SAVANNAH WATSON GEORGIA POWER 3102 KILOWATT DRIVE SAVANNAH, GEORGIA 31405 (912) 677-9620

FIBER OPTIC / TELECOMMUNICATIONS MR. TED A. JONES HARGRAY FIBER 1375 CHATHAM PARKWAY SAVANNAH, GEORGIA 31405 (912) 239-0526

MR. JEFF SWITZER AT&T 1997 MLK AVE BAXLEY, GEORGIA 31513 (912) 367-4320

<u>NATURAL GAS</u> MR. MARK GRIFFIN ATLANTA GAS LIGHT 10 PEACHTREE PLACE ATLANTA, GEORGIA 30309 (404) 584-3089

LEGEND:

	EXISTING	PROPOSED
SURVEY FEATURES	<u> </u>	
BENCHMARK (DATUM NAVD88)		
HOR. CONTROL POINT (GA. EAST ST. PLANE)		
CONCRETE MONUMENT (PROPERTY OR R/W)		
PROPERTY MARKER (IRON PIPE OR REBAR)	\Box	
SIGN		
RAILROAD		++++++++
WOODSLINE	- <u> </u>	
TREE	흔축	SEE LANDSCAPE PLAN
BOLLARD	OB	•
LIGHT POLE	-×-	
UTILITY POLE	— <u>()</u> —	
ELECTRICAL BOX	Ē	
COMMUNICATION APPURTENANCE		
TRAFFIC SIGNAL BOX	TSB	
GAS METER	GM	
GAS VALVE		
	GAS	
	OHE	
	50	
UNDERGROUND GAS	GAS Z	ONE
	Xx Z	ONÉ
	Xx	
	· · · · ·	<u> </u>
DEMOLITION		
PROPERTYLUT LINE		
EASEMENI		
SETBACK		
ROAD CENTERLINE		
PAVING (BITUMINOUS ASPHALT PAVING)		
ASPHALT (LIGHT DUTY)		
ASPHALT (STANDARD DUTY)		
ASPHALT (HEAVY DUTY)		
ASPHALT (GDOT STANDARD)		<u> </u>
ASPHALT (PATCH)		
PAVING (PORTLAND CEMENT CONCRETE)		
CONCRETE (PEDESTRIAN SIDEWALK)		4
CONCRETE (LIGHT DUTY)		
CONCRETE (STANDARD DUTY)		
CONCRETE (HEAVY DUTY)		
CURBING		
STANDARD CURB & GUTTER		
HEADER CURB		
SPOT FLEVATIONS		
	1.t	
	xtr t	
	xtratt	
	t.	~T /WYY YY
TOP OF WALL	t.t.	
BASE OF WALL	AT.	פ/ ₩ХХ.ХХ (HP)
HIGHPOINT (PAVEMENT CENTERLINE)	AT.	× XX.XX (LP)
LOW POINT (PAVEMENT CENTERLINE)	xt.	× XX.XX
POINT OF VERTICAL INTERSECTION	xtt.	× XX.XX
CONTOUR	— — <u>14</u> — —	20
WAIEK		
VALVE		
WAIER METER		
BACKFLOW PREVENTION DEVICE		
FIRE HYDRANT	Ŷ	₩ ±
POST INDICATOR VALVE		\mathbf{Q}
FIRE DEPARTMENT CONNECTION	-	-
RJ TEE		' † '
RJ BEND		th
DOMESTIC WATER SERVICE $(\frac{3}{4}, 1, \& 1\frac{1}{2}$ SVC.)		w
2" DOMESTIC WATER SERVICE		2°v
8" DOMESTIC WATER SERVICE		
12" WATER MAIN		
SEWER		
MANHOLE	S	
AIR RELEASE VALVE	(ARV)	ARV
MAIN	SAN	SAN
DUCTILE IRON SEWER MAIN (ALL SIZES)		SAN
SERVICE LATERAL		
DRAINAGE		
MANHOLE		
CURB INLET		
GRATE INLET/DROP INLET/ROOF INLET		
STORM DRAIN PIPE	— — — XX"ST — — —	
CLEANOUT		
SWALE/DITCH		
<u>FENCING</u>		
CHAIN LINK	X	X
	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~







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AVING	
ASPHALT (LIGHT DUTY)	
ASPHALT (HEAVY DUTY)	[[]]
CONCRETE (STANDARD D	UTY)

LEGEND:

PROPOSED GRADE ______ EXISTING GRADE ______ HGL (25-YEAR) _____

PROPOSED GRADE	
EXISTING GRADE	
HGL (25–YEAR)	
· · ·	

No. 345 PROFESSIO 12-04-20 CNGINEE	G 199 199 NAL 24 04	AT A H
STATUTE DIGGING		
HUSSEY GAY BELL	$T_{3}(a)(i)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)$	329 Commercial Drive, Savannah, GA 31406 / T:912.354.4626
REVISIONS: CITY OF POOLER REVISIONS 11/02/2023 ISSUED FOR CONSTRUCTION 01/11/2024 IFC SET - OWNER REVISIONS #1 02/19/2024 IFC SET - OWNER REVISIONS #2 04/08/2024	IFC SET - OWNER REVISIONS #3 04/30/2024	IFC SET - OWNER REVISIONS #4 12/04/2024
DESIGNED DRAWN H.S.W. J.J.M. DATE: OCTOBER JOB NO. 12240 SCALE: AS SHO	CHI C 5, 2 01600 DWN	ECKED .J.C. D23
ORD POOLER - PHASE 1 ARREN ROAD AND POOLER PARKWAY POOLER, GEORGIA FOR	ORD PROPERTIES, LLC	RM DRAINAGE PROFILES
OXF(PINE B	OXF	STOF

LEGEND:

PROPOSED GRADE	
EXISTING GRADE	
HGL (25-YEAR)	

LEGEND:

PROPOSED GRADE	
EXISTING GRADE	
HGL (25-YEAR)	

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	STAND AL	ONE CONSTRUCT	ION PROJECTS		
Project Name: City/County: F	SWCD: THE DAVIS GROUP OOLER/CHATHAM	Address:_P	INE BARREN ROAD		
Name & email Plan Included	of person filling out checklist: <u>-</u>		LD HWHITFIELD@HUS	SSEYGAYBELL.COM	
Page # Y/N ECO.1 Y	<u>TO B</u> 1 The applicable Erosion, Sedimenta	tion and Pollution Cor	<u>& PC PLAN</u> htrol Plan Checklist establis	hed by the Commission	
	as of January 1 of the year in whic (The completed Checklist must be	h the land-disturbing a submitted with the E-	activity was permitted. S&PC Plan or the Plan will	not be reviewed)	
EC0.1 Y	2 Level II certification number issued (Signature, seal and level II number	by the Commission, must be on each sh	signature and seal of the one to the seal of the seal	ertified design professional. Ian or the Plan will not be	
ECO.1 Y	reviewed) 3 Limits of disturbance shall be no gr	eater than 50 acres a	t any one time without pric	r written authorization from	
	the GAEPD District Office. If GAE include at least 4 of the BMPs list	PD approves the requeed in Appendix 1 of th	uest to disturb 50 acres or i is checklist and the GAEPE	more at any one time, the Plan must D approval letter. *	
ECO.1 Y	(A copy of the written approval by 4 The name and phone number of the	GAEPD must be atta ne 24-hour contact res	iched to the plan for the Pla sponsible for erosion, sedim	an to be reviewed.) rentation and pollution controls.	
EC0.1 Y	5 Provide the name, address, email a 6 Note total and disturbed acreages	address, and phone r	number of primary permitte e under construction	e.	
EC0.1 Y	7 Provide the GPS location of the co	nstruction exit for the	site. Give the Latitude and	d Longitude in decimal degrees.	
ECO.1 Y ECO.1 Y	8 Initial date of the Plan and the date9 Description of the nature of constru-	es of any revisions ma action activity and exis	ade to the Plan including the sting site conditions.	e entity who requested the revisions.	
EC0.1 Y EC0.1 Y	10 Provide vicinity map showing site's 11 Identify the project receiving water	s relation to surroundin s and describe all sen	ng areas. Include designati sitive adjacent areas includ	on of specific phase, if necessary. ing streams, lakes,	
FC0 1 Y	residential areas, wetlands, marsh 12 Design professional's certification s	lands, etc. which may	y be affected. re that the site was visited	prior to development of the	
	ES&PC Plan as stated on Part IV 13 Design professional's contineation a	page 19 of the permi	it. It.	PC Dias provides for an appropriate	
	and comprehensive system of 8M	Ps and sampling to m	re that the permitee's Eso	s stated on Part IV page 19 of the permit.	*
ECU.1 Y	14 Clearly note the statement that "The initial sediment storage requirement is considered with the statement in the statement of the state	ne design professiona Its and perimeter cont	i who prepared the ES&PC rol BMPs within 7 days aft	Han is to inspect the installation of the erinstallation."	
EC0.1 Y	In accordance with Part IV.A.5 pag 15 Clearly note the statement that "N	je ∠o ot the permit. * on-exempt activities s	hall not be conducted with	in the 25 or 50-foot	
	undisturbed stream buffers as mea marshland buffer as measured fror	sured from the point n the Jurisdictional De	or wrested vegetation or w etermination Line without fi	mmn 25-teet of the coastal ist acquiring the necessary	
EC0.1 Y	variances and permits." 16 Provide a description of any buffer	encroachments and i	ndicate whether a buffer va	ariance is required.	
EC0.1 Y	17 Clearly note the statement that "An BMPs with a hydraulic component	mendments/revisions must be certified by t	to the ES&PC Plan which the design professional." *	have a significant effect on	
ECO.1 Y	18 Clearly note the statement that "W authorized by a Section 404 permit	/aste materials shall n t." *	ot be discharged to waters	of the State, except as	
ECO.1 Y	19 Clearly note statement that "The e erosion and sediment control mea	scape of sediment fro sures and practices p	om the site shall be prevent rior to land disturbing activit	ted by the installation of ties."	
ECO.1 Y	20 Clearly note statement that "Erosic approved Plan does not provide for	on control measures w	vill be maintained at all time	es. If full implementation of the sediment control measures	
	shall be implemented to control or 21 Clearly note the statement "they at	treat the sediment so	Durce." Sed for a period constantion	an 14 days shall he	
	stabilized with mulch or temporary	seeding."	iste en Imaginal Charm C	an in days shall be	
	22 Any construction activity which disc upstream of and within the same v with Part III. C. of the permit line	charges storm water i vatershed as, any poi lude the completed A	nto an impaired Stream Se rtion of a Biota Impaired St procedia 1 listing all the BM	egment, or within 1 linear mile ream Segment must comply Re that will be used for these	
	areas of the site which discharge to	the Impaired Stream	n Segment. *		
	23 If a TMDL Implementation Plan for Item 22 above) at least six monities	r sediment has been to prior to submittal of I	nalized for the impaired S NOI, the ES&PC Plan mus	tream Segment (identified in st address any site-specific	
EC0.1 Y	24 BMPs for concrete washdown of th	pols, concrete mixer c	nernation Plan. shutes, hoppers and the rea	ar of the vehicles. Washout	
ECO.1 Y	of the drum at the construction site 25 Provide BMPs for the remediation	e is prohibited. * of all petroleum spills	and leaks.		
EC0.1 Y	26 Description of the measures that w water that will occur after construct	ill be installed during t tion operations have	the construction process to been completed. *	control pollutants in storm	
EC0.1 Y	27 Description of practices to provide (cover for building mat	erials and building products	; on site. *	
EC0.1 Y	29 Description and chart or timeline of	the intended sequen	ce of major activities which	disturb soils for the major	
	portions of the site (i.e., initial perim excavation activities, utility activitie	reter and sediment st es, temporary and fina	orage BMPs, clearing and al stabilization).	grubbing activities,	
ECO.1 Y ECO.1 Y	30 Provide complete requirements of31 Provide complete requirements of	Inspections and recor Sampling Frequency	d keeping by the primary p and Reporting of sampling	ermittee. * results. *	
ECO.1 Y	32 Provide complete details for Reten	tion of Records as pe	r Part IV.F. of the permit.	* m arch lacation *	
EC0.1 Y	34 Appendix B rationale for NTU value	es at all outfall samplir	ng points where applicable.	*	
EC0.1 Y	35 Delineate all sampling locations, pe storm water is discharged. *	erennial and intermitte	nt streams and other wate	r bodies into which	
CO.1 Y	36 A description of appropriate control (1) initial sediment storage requiren	s and measures that nents and perimeter o	will be implemented at the control BMPs, (2) intermedi	construction site including; ate grading and drainage	
	BMPs, and (3) final BMPs. For co control BMPs, intermediate gradin	nstruction sites where g and drainage BMPs	e there will be no mass grad s, and final BMPs are the s	ding and the initial perimeter ame, the Plan may combine	
ALL Y	all of the BMPs into a single phase 37 Graphic scale and North arrow.	e. *			
ALL Y	38 Existing and proposed contour lines Map Scale G	s with contour lines dr round Slope	awn at an interval in accord Contour Intervals, ft.	dance with the following:	
	1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8%	0.5 or 1 1 or 2		
ALL Y	39 Use of alternative BMPs whose ne	Steep 8% +	2,5 or 10 documented to be equivale] ent to or superior to	
ı	conventional BMPs as certified by and Water Conservation Commiss	a Design Professionation). Please refer to t	al (unless disapproved by G the Alternative BMP Guidal	CAEPD or the Georgia Soil nce Document found at	
ALL Y	www.gaswcc.georgia.gov. 40 Use of alternative BMP for application	tion to the Equivalent	BMP List. Please refer to A	Appendix A-2 of the Manual	
 EC0.2	for Erosion & Sediment Control in (41 Delineation of the annicable 25 for	Georgia 2016 Edition.	* ed buffers anliacent to state	waters and any additional	
	 2 United on or the applicable 25-100 buffers required by the Local Issuin 42 Delineation of an offer with the local 	ig Authority. Clearly r	note and delineate all areas	s of impact.	
ALL Y	 43 Delineation and acreage of contribution 	i an state waters locat Iting drainage basins (on the project site.	or the project Site.	
IYDRO Y ECO.2 Y	44 Provide hydrology study and maps45 An estimate of the runoff coefficier	of drainage basins fo t or peak discharge fl	or both the pre- and post-de ow of the site prior to and a	eveloped conditions. * after construction activities are	
EC0.2	completed. 46 Storm-drain pipe and weir velocitie	s with appropriate out	let protection to accommo	date discharges without	
	erosion. Identify/Delineate all stor 47 Soil series for the project site and t	n water discharge poi	ints.	<u></u>	
ALL Y	48 The limits of disturbance for each p	bhase of construction.			
C0.2 Y	49 Provide a minimum of 67 cubic yas retrofitted detention pond, and/or e	rds of sediment storag xcavated inlet sedime	ge per acre drained using a ent traps for each common	temporary sediment basin, drainage location. Sediment	
	storage volume must be in place p site has been achieved. A written	prior to and during all l justification explaining just be instant of its if	the decision to use equiva	inui final stabilization of the lent controls when a ainane location in which a	
	sediment basin is not attainable m sediment basin is not provided. A also be diven - Worksheats from *	written justification as he Manual included for	to why 67 cubic yards of s or structural RMPs and all of	anays location in which a storage is not attainable must alculations used by the	
	storage design professional to obta from sediment basins and impound	in the required sedim dments, permittees as	 eccourter overs and all c ent when using equivalent re required to utilize outlet s 	controls. When discharging structures that withdraw water	
	from the surface, unless infeasible. a written justification explaining this	If outlet structures the decision must be inc	at withdraw water from the luded in the Plan.	e surface are not feasible,	
ALL Y	50 Location of Best Management Pra Erosion and Sediment Control in G	ctices that are consist eorgia. Use uniform	cent with and no less string coding symbols from the M	ent than the Manual for Aanual, Chapter 6. with	
	legend.	uniiųinii بېي سېي			
	51 Provide detailed drawings for all of	uctural practices Co	ecifications must at a mini	mum, meet the avidelines eat	

- LEVEL II CERTIFICATION THE CERTIFIED DESIGN PROFESSIONAL. (SEE PROFESSIONAL SEAL)
- LIMIT OF DISTURBANCE:
- BRENT DAVIS (770) 776-8900 PRIMARY PERMITTEE INFORMATION:
- THE DAVIS GROUP 6728 JAMESTOWN DRIVE
- TOTAL ACREAGE / DISTURBED ACRE TOTAL PROPERTY AREA: 38.25 ACR ESTIMATED TOTAL SITE ACREAGE: 3 TOTAL DISTURBED AREA DEVELOPME
- CONSTRUCTION EXIT A LATITUDE: 32.09864[•] N **LONGITUDE:** 81.27608° **W**
- DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY: IS PART OF THE MORGAN PUD.

WITHIN 200' OF THE PROJECT SITE (JURISDICTIONAL WETLAND).

DESCRIPTION OF SENSITIVE AREAS: FRESHWATER WETLANDS DO EXIST ADJACENT THE SITE. THESE AREAS WILL BE PROTECTED WITH BMPS TO PREVENT THE MOVEMENT OF SEDIMENTATION INTO THE SENSITIVE AREAS. THERE IS ALSO A 10-FOOT BUFFER THAT WILL REMAIN IN PLACE.

CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. nu

ENTATION & POLLUTION CONTROL

LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF

LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME. THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPS LISTED IN APPENDIX 1 OF THIS CHECKLIST. 24-HOUR LOCAL EROSION AND SEDIMENTATION CONTROL CONTACT:

ALPHARETTA, GA 30005 (770) 776-8900 BRENT@DAVISGROUPGA.COM

EAGE ES						
8.25	ACR	ES				
NT:	39.5	ACRES				
	CONS	STRUCT	10N	EXIT	B	
	LATI	TUDE:		32.09	9972	•
	LONG	GITUDE:		81.27	7083	

THIS PROJECT CONSISTS OF APPROXIMATELY 444 UNITS OF MULTI-FAMILY APARTMENTS AND MASS GRADING FOR THE COMMERCIAL OUT-PARCELS. ROADWAY, WATER, SEWER, AND STORM DRAINAGE SYSTEMS ARE PROPOSED FOR THE ENTIRE DEVELOPMENT. A LIFT STATION IS ALSO PROPOSED FOR THE EASTERN PORTION OF THE SITE AS INDICATED IN THE SEWER MEMO TO THE CITY OF POOLER DATED AUGUST 16, 2022. THE TOTAL BUILDING SQUARE FOOTAGE IS APPROXIMATELY 191,725 SF. THE SITE WILL BE ACCESSED FROM PINE BARREN ROAD AND POOLER PARKWAY. THE PROJECT IS LOCATED IN POOLER, GEORGIA. THE SITE IS CURRENTLY WOODED AND COVERED IN BRUSH AND UNDEVELOPED THE SITE CURRENTLY DRAINS VIA OVERLAND FLOW INTO THE WETLANDS AT THE NORTHERN BOUNDARY OF THE SITE. THE SITE IS LOCATED ON TRACT R-2 AND R-3 AND

VICINITY MAP SCALE: 1" = 3,000

THE PROJECTS RECEIVING WATERS ARE A JURISDICTIONAL WETLAND NORTH OF THE SITE CONTRIBUTING EVENTUALLY TO THE HARDIN CANAL. STATE WATERS, ARE LOCATED ON OR

"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

OCTOBER <u>14, 2023</u>

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS

<u>OCTOBER 15, 2023</u> ENGINEER'S SIGNATURE GSWCC CERTIFICATION NO. 0000061303

- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE (14) INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN ANY 25 OR 50-FOOT (15) UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- DESCRIPTION OF BUFFER ENCROACHMENT: NO BUFFER ENCROACHMENTS ARE PROPOSED ON THIS PROJECT.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION (19)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 EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- (**30**) PRIMARY PERMITTEE IS RESPONSIBLE FOR REGULAR INSPECTIONS AND RECORD KEEPING AS REQUIRED BY THE GEORGIA EPD NPDES PERMIT. INSPECTIONS (TO BE ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE (21) COMPLETED BY PRIMARY PERMITTEE) STABILIZED WITH MULCH OR TEMPORARY SEEDING.

INSTALL

DEMOLI

- THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 (22) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT. ANY PROJECT DISCHARGING INTO A BIOTA IMPAIRED STREAM SEGMENT, OR WITHIN W MILE UPSTREAM AND WITHIN SAME WATERSHED MUST COMPLY WITH PART III. C. OF THE PERMIT.
- IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED (23) STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.
- BMPs FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND (24) THE REAR OF THE VEHICLES WILL BE UTILIZED. SEE PLANS FOR BMP LOCATION(S). WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. SPILL CLEANUP AND CONTROL PRACTICES
- (25) LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL
 - 2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. 3. SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL
 - AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. 4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL
 - BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. 5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER)
 - AND FOR SPILLS OF AN UNKNOWN AMOUNT. THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802 7. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC)
 - SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802 8. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE
 - GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS. 9. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
- DESCRIPTIONS OF THE MEASURES THAT WILL BE INSTALLED DURING CONSTRUCTION **(26**) PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETE: HE SITE WILL CONTAIN PERIMETER BMPS, A CONSTRUCTION EXIT, VELOCITY DISSIPATION INLET SEDIMENT TRAPS, A PERMANENT SEDIMENT BASIN, AND GRASSING TO PREVENT EROSION FROM LEAVING THE SITE.
- DESCRIPTIONS OF THE PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND (27) BUILDING PRODUCTS ON SITE: THE SITE WILL CONTAIN STAGING AREAS FOR THE DELIVERY OF MATERIAL. THE MATERIAL WILL BE STAGED ON REFUSE MATERIAL AND PROTECTED FROM THE ELEMENTS BY

PROTECTIVE COVERINGS.

- DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN (28) STORMWATER DISCHARGES: HE SITE WILL HAVE PERMANENT MEASURES IN PLACE TO CONTROL THE RUNOFF FROM
 - THE SITE TO PREVENT THE MOVEMENT OF SEDIMENT. ADDITIONALLY, PERMANENT MEASURES WILL BE IN PLACE TO PROMOTE THE DETAINING, SETTLING, AND TREATMENT OF POLLUTANTS IN THE RUNOFF.

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	20	2024						
	JAN	APR	JUL	OCT	JAN	APR		
INSTALLATION OF SEDIMENT CONTROLS AND TREE PROTECTION BARRICADES								
DEMOLITION, CLEARING, GRUBBING & STRIPPING TOPSOIL								
GRADING								

GSWCC Level I

GRADING											
GRASSING / LANDSCAPING											
MAINTENANCE OF SEDIMENT CONTROLS & TEMPORARY GRASSING (AS REQUIRED)											
REMOVAL OF TEMPORARY SEDIMENT CONTROLS											

PERMITTEE REQUIREMENTS

- (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (a) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (b) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT 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.
- (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (a) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (b) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (c) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS 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.
- (4). 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).
- (5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION 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.

E		DES H. D J	REVISIONS:			
RA 		SIGN .S.W ATE OB CAL	CITY OF POOLER REVISIONS 11/02/2023			O ANNIS
	PINE BARREN ROAD AND POOLER PARKWAY	ED :: 0 NO .E:	ISSUED FOR CONSTRUCTION 01/11/2024			NO ROTOR
	POOLER, GEORGIA	DR/ J 0CTO 0. 1 N.T	IFC SET - OWNER REVISIONS #1 02/19/2024		BE	FEGA
	FOR	AWN J.M. BER 224(.S.	IFC SET - OWNER REVISIONS #2 04/08/2024	E. + 2 h 1: 6 h 2 1050	FOR	1 45 5510 -20 NEE
	OXFORD PROPERTIES, LLC	5, 2 5, 2	IFC SET - OWNER REVISIONS #3 04/30/2024	L'Stauttsneu 1730		1999 NAI 999 NAI 999 NAI
ве) •		1EC C.J. 2023	IFC SET - OWNER REVISIONS #4 12/04/2024			A La La
R	EROSION AND SEDIMENT CONTROL NOTES	KED C. 3		329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626		

EROSION, SEDIMENTATION & POLLUTION CONTRO **31** STORMWATER SAMPLING SHALL BE CONDUCTED AT THE POINTS AS INDICATED WITHIN THIS **32** RETENTION OF RECORDS (47) THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE SAMPLING FREQUENCY CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI: ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD: PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO B. A COPY OF THE EROSION. SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION BY THIS PERMIT: WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE THIS PERMIT; SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE. IV.D.4.A. OF THIS PERMIT; F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND EVENTS: G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT. (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 COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS. STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD. EROSION. THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION; 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 (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST; EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE. (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 STORMWATER SAMPLING OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE (33) ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001." DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED. INSTALLED. (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50. THE IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT No. GAR100001. THIS NTU THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS VALUE IS BASED UPON A TOTAL PROJECT AREA OF 39.5 ACRES AND A SURFACE WATER JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING DRAINAGE AREA OF LESS THAN 5 SQUARE MILES, AND RECEIVING WATER WHICH OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND SUPPORTS WARM WATER FISHERIES. (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR 34 BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING APPENDIX B REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING Nephelometric Turbidity Unit (NTU) Tables CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS Warm Water (Supporting Warm Water Fisheries) REQUIRED BY (C) ABOVE. Surface Water Drainage Area, Square Miles *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 0-4.99 5-EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK. 1.00-10 75 <u>REPORTING</u> 10.01-25 Site Size THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO 24.01-50 50 Acres THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS 50.01-100 DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING 100.01+ 50 RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, 50 50 50 100 200 100 EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER To use these table, select the size (acres) of the construction site. Then, select the surface water drainage DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY area (square miles). The NTU matrix value arrived at from the above tables is one to use in Part III.D.4. 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 SEE PAGES EC1.1 - EC3.5 FOR FOR SAMPLING POINT LOCATIONS, PERENNIAL AND SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL (35) INTERMITTENT STREAM AND OTHER WATER BODIES INTO WHICH STORM WATER IS SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. DISCHARGED ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: SEE PAGES EC1.1 - EC3.5 & EC4.1 - EC4.2 FOR A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE. 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 (41) APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS AS REQUIRED BY THE LOCAL ISSUING AUTHORITY ARE MEASUREMENTS: SHOWN IF APPLICABLE. AREAS OF IMPACT ARE SHOWN AND LABELED ON THE PLAN IF c. THE DATE(S) ANALYSES WERE PERFORMED; **REQUIRED.** d. THE TIME(S) ANALYSES WERE INITIATED; e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; ON SITE WETLANDS AND/OR WATERS OF THE STATE ARE LOCATED ON OR WITHIN 200 FEET REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL (42) OF THE PROJECT SITE AND ARE DELINEATED ON PAGES EC1.1 - EC3.5. TECHNIQUES OR METHODS USED; THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; (45) THE PEAK DISCHARGE RATES CONSTRUCTION ACTIVITIES ARE: g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT THE PEAK DISCHARGE RATES FOR THE SITE PRIOR TO AND AFTER COMPLETION OF h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" PEAK DISCHARGE (25 YR) "PRE" = 88.61 CFS i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN. PEAK DISCHARGE (25 YR) "POST" = 42.44 CFS ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY REFER TO EROSION AND SEDIMENT CONTROL PLAN SHEETS FOR WEIR VELOCITIES WITH RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE (46) APPROPRIATE OUTLET PROTECTION AND THE LOCATION OF ALL STORM WATER DISCHARGE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS POINTS. PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

-9.99	10-24.99	24-49.99	50-99.99	100-249.99	250-499.99	500+	
150	200	400	750	750	750	750	
100	100	200	300	500	750	750	
50	100	100	200	300	750	750	
50	50	100	100	150	300	600	
50	50	50	50	100	000	100	

SOIL TYPE: ΕI ELLABELLE LOAMY SAND _ Oj OCILLA COMPLEX Pn _ POOLER FINE SANDY LOAM ΡL PELHAM LOAMY SAND SEE PAGES EC1.1 - EC3.5 FOR DELINEATION.

(HSG B/D) (HSG B/D) (HSG B/D) (HSG B/D)

REFER TO EROSION AND SEDIMENT CONTROL PLAN SHEETS FOR THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION. TEMPORARY SEDIMENT STORAGE:

THE DRAINED AREA FOR THIS PROJECT IS 38.25 ACRES, THEREFORE, THE REQUIRED SEDIMENT STORAGE VOLUME IS 38.25 ACRES X 67 CY PER ACRE = 2,562.75 CY OF STORAGE REQUIRED.

STORAGE IS PROVIDED THROUGH IMPLEMENTATION OF VARIOUS TYPES OF BMPs IN MULTIPLE LOCATIONS THROUGHOUT THE PROJECT SITE. THE TABLE BELOW SUMMARIZES THE BMPs IMPLEMENTED AND THE SEDIMENT STORAGE ACHIEVED FOR EACH BMP

CONSTRUCTION PHASE	STORAGE METHOD	VOLUME PROVIDED (CY)
ALL	SEDIMENT BASIN	47,473
2-3	INLET TRAPS	4,958
XXX	XXX	XXX
TO	TAL	52,431

	POND STAGE-S	STORAGE
ELEVATION	AREA (S.F.)	CUMULATIVE VOLUME (C.Y.)
8.00	133,667	0
9.00	140,158	5,070
10.00	146,727	10,382
11.00	153,368	15,938
12.00	160,074	21,741
13.00	166,845	27,794
14.00	173,675	34,099
15.00	180,561	40,658
16.00	187,504	47,473

INLET SEDIMENT TRAP SD2-F

N.T.S.

L NOTE	Cert. #000
EFER TO EROSION AND SEDIMENT CONTROL F	PLAN SHEETS FOR SPECIFIED LOCATIONS.
CONSTRUCTION EXIT	Co
DUST CONTROL ON DISTURBED AREAS	Du
DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION	
(WITH PERMANENT VEGETATION)	
TEMPORARY SEDIMENT SINGLE BARRIER – SILT FENCE, TYPE "NON–SENSITIVE"	Sd1-NS
TEMPORARY SEDIMENT DOUBLE BARRIER — SILT FENCE, TYPE "SENSITIVE"	(Sd1-S)
INLET SEDIMENT TRAP	SdZ-F
SLOTTED BOARD DAM WITH STONE FILTER	Rt-B
STORM DRAINAGE	(St)
OUTLET PROTECTION	
DIVERSIONS	(Di)
STONE CHECK DAM	
STONE CHECK DAM	
TEMPORARY SEDIMENT TRAP	Sd-4
SAMPLING POINT	
	5 million and
TREE PROTECTION BARRICADE	(Tr) (² ² ¹) ²⁰ OAK
SOILS	Mae
DRAINAGE BASIN BOUNDARY	
LIMITS OF DISTURBANCE & STORMWATER MANAGEMENT AREA	
SILT FENCE PROTECTION	xx
(SINGLE) SILT FENCE PROTECTION	
(DOUBLE)	x x

(51) FOR ALL STRUCTURAL PRACTICES. ENT CONTROL DETAIL SHEETS FOR DETAILED DRAWINGS

VEGETATIVE METHODS:

A. A VEGETATIVE COVER SHALL BE ESTABLISHED AND MAINTAINED OVER ALL FINAL GRADING AND OTHER DISTURBED AREAS OF THE SITE. SEE COASTAL PLAIN VEGETATIVE COVERS FOR AN OUTLINE OF THE ESTABLISHMENT OF VEGETATIVE COVERS.

B. WEEKLY INSPECTION OF THE GRASS COVER SHALL BE PERFORMED TO IDENTIFY AREAS REQUIRING RE-ESTABLISHMENT OF GRASS. C. LIME RATE: 1 TO 2 TONS/ACRE.

FERTILIZER: 1500 LBS. OF 6-12-12 PER ACRE.

COASTAL PLAIN VEGETATIVE COVERS

MONTH OF PLANTING	TEMPORARY GRASS	RATE	MONTH OF PLANTING	PERMANENT GRASS	RATE
MARCH - JUNE	SUDANGRASS	60 Lbs./Ac	MARCH - JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac
APRIL - AUGUST	BROWN TOP MILLET	40 Lbs./Ac	JULY - August	COMMON BERMUDA (HULLED) & BROWN TOP MILLET	6 Lbs./Ac 10 Lbs./Ac
SEPTEMBER - FEBRUARY	RYE GRASS	40 Lbs./Ac	September - February	COMMON BERMUDA (UNHULLED) & TALL FESCUE	6 Lbs./Ac 30 Lbs./Ac

MULCH: Ds1

MULCH, IF REQUIRED, SHALL BE UNCHOPPED, UNROTTED, DRY STRAW, HAY, OR WOOD WASTE SHALL BE APPLIED TO A DEPTH OF 2-3 INCHES PROVIDING COMPLETE SOIL COVERAGE. IN AREAS TO BE EVENTUALLY COVERED BY PERENNIAL VEGETATION THE CONTRACTOR SHALL APPLY 20-30 POUNDS OF NITROGEN/AC. IN ADDITION TO THE NORMAL AMOUNT.

MULCHING RATE FOR STRAW SHALL BE 2 TONS/AC. AND FOR HAY 2 % TONS/AC. MULCH MATERIAL SHALL BE RELATIVELY FREE FROM ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE: CANADA THISTLE, JOHNSONGRASS AND QUACKGRASS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.

RD POOLER - PHASE 1 Ren Road and Pooler Parkway Pooler, georgia For ORD PROPERTIES, LLC	DESIGNED DRAWN CHEC H.S.W. J.J.M. C.J. DATE: OCTOBER 5, 202 JOB NO. 122401600 SCALE: N.T.S.	REVISIONS: CITY OF POOLER REVISIONS 11/02/2023 ISSUED FOR CONSTRUCTION 01/11/2024 IFC SET - OWNER REVISIONS #1 02/19/2024 IFC SET - OWNER REVISIONS #2 04/08/2024 IFC SET - OWNER REVISIONS #3 04/30/2024 IFC SET - OWNER REVISIONS #4 12/04/2024	HUSSEY GAY BELL Established 1958	REPORT OF THE PARTY OF THE PART	No. 34599 PROFESSIONAL 12-04-2024 Chaineer Chaineer
AND SEDIMENT CONTROL NOTES	KED .C. 3		329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626		4.10

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::\Oxford Properties\123254102...Oxford Pooler - Phase 1\Cadd Files\Construction\EC3 ESCP 3.dwg

TYPE A FABRIC (36")

1) ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS. WHERE THE SLOPE GRADIENT IS STEEPER THAN 31 EASTENERS FOR WOOD DOST (WIRE STADIES)

2) WHERE INE	SLOPE GRADIENT	IS SIEEPER IMAN SIL	FA3	SIENERS FOR WOU	D PUSI (WIRE SIA	PLES	_
	POST SIZE		GAUGE	CROWN	LEGS	STAPLES/POST	
MIN. LENGTH	TYPE OF POST	SIZE OF POST	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.	
4'	SOFT WOOD	3" DIA. OR 2X4		FASTENERS FOR	WOOD POST (NAILS	5)	
4'	OAK	1.5"X1.5"	GALIGE	I ENGTH	BUTTON HEADS	NAIL /POST	1
4'	STEEL	<u>1.3 LB./FT. MIN.</u>	14 MIN.	1"	3/4"	4 MIN.	
	FENCE	NOTE: FI	LTER FABRIC MAY A	LSO BE ATTACHED	TO THE POST BY	WIRE, CORD, AND	POC

	FENCE					
TENSILE STRENGTH	ELONGATION	AOS (APPARENT	FLOW RATE	ULTRAVIOLET STABILITY (2)	BURSTING STRENGTH MIN.	FABRIC WIDTH
(LBS. MIN.) (1)	(%MAX.)	OPENING SIZE)	(GAL/MIN./SQ. FT.)	(ASTM D-4632 AFTER	(PSI MIN.)	(INCHES)
(ASTM D-4632)	(ASTM D-4632)	(MAX. SIEVE SIZE)	(GDT-87)	300 HOURS WEATHERING	(ASTM D-3786 DIAPHRAGM	
		(ASTM D-4751)		IN ACCORDANCE WITH	BURSTING STRENGTH	
				ASTM D-4355)	TESTER)	
WARP-120	40	#30	25	80	175	36
FILL-100						
(4) (4)			~			

(1) MIN. ROLL AVERAGE OF FIVE SPECIMENS. (2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.

> SILT FENCE-NON SENSITIVE N.T.S.

NOTES:

2. PERMANENT METHODS

SOIL MATERIAL

1. TEMPORARY METHODS A. MULCHES (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 RECOMMENDATIONS. B. VEGETATIVE COVER - DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING. C. SPRAY ON ADHESIVES - THESE ARE USED ON MINERAL SOILS (NON

EFFECTIVE ON ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO TACKIFIERS AND BINDERS. D. 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 OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT. E. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED. F. 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 ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION. G. CALCIUM CHLORIDE - APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

A. PERMANENT VEGETATION – DISTURBED AREA STABILIZATION (WITH

PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY

B. TOPSOILING - THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE

DISTURBED AREAS

C. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

DUST CONTROL ON

AFFORD VALUABLE PROTÉCTION IF LEFT IN PLACE.

SPRAY ON ADHESIVE REQUIREMENTS

ADHESIVE	WATER DILUTION	NOZZLE TYPE	GAL./AC.)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN- WATER FMULSION	4:1	FINE SPRAY	300

	0.22)	()	
SKIMMER			

St #	PIPE SIZE	Q25 (CFS)	V (FPS)	TW	LA	3D 0	w	D50	D
1	48" RCP	46.8	3.7	MIN.	24'	12'	36'	0.9'	1.35'
2	36" RCP	15.4	2.2	MIN.	18'	9'	27'	0.8'	1.2'
3	48" RCP	30.7	2.4	MIN.	24'	12'	36'	0.9'	1.35'
4	(2) 30" RCP	31.5	4.6	MIN.	15'	7.5'	22.5'	0.7'	1.05'

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

PIPE OUTLET TO WELL DEFINED CHANNEL

GSWCC Level I

STURBED AREA STABILIZATION <u>(WITH MULCHING</u>

<u>DEFINITION</u>

APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

<u>CONDITIONS</u>

EXPOSED AREAS WITHIN 14 DAYS OR DISTURBANCE. MULCH CAN BE THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF MONTHS. BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A MULCH. TACKIFERS AND BINDERS CAN BE SUBSTITUTED FOR CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE TB-TACKIFERS AND BINDERS. PLASTIC MESH OR NETTING WITH DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE MESH NO LARGER THAN ONE INCH SHALL BE INSTALLED ACCORDING EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN TO MANUFACTURER'S SPECIFICATIONS. UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

<u>SPECIFICATIONS</u>

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

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

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

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

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

MATERIAL CAN BE SALVAGED AND REUSED.

DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL

TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC. 4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION

ANCHORING MULCH

STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1)

> LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

<u>CONDITIONS</u>

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

<u>SPECIFICATIONS</u>

GRADING AND SHAPING EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

LIME AND FERTILIZER AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12–16 LBS./1,000 SQ.FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLATING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

MULCHING TEMPORARY VEGETATION CAN. IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE

GSWCC 2016 Edition

ISTURBED AREA STABILIZATION (WITH TEMPORARY <u>SEEDING)</u>

CONSIDERED FOR SHORT TERM PROTECTION. REFER TO

IRRIGATION

NEEDED.

SPECIES

RYE

ANNUAL

LESPEDEZA

WEEPING

LOVEGRASS

BROWNTOP

MILLET

WHEAT

Ds1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE

THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION

OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN

SEEDING RATES FOR

TEMPORARY SEEDING

1,000 SQ.FT. |

3.9 pounds

0.9 pounds

0.1 pounds

0.9 pounds

| 4.1 pounds

RYEGRASS | 0.9 pounds

SUDANGRASS | 1.4 pounds

VARIATIONS AND CONDITIONS

RATE PER | RATE PER | PLANTING

ACRE *

3.9 bu.

0.9 lbs.

0.9 lbs.

0.1 lbs.

1.4 lbs.

0.9 lbs.

3 bu.

UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES

** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE

DATES **

9/1-3/1

8/15-4/1

1/15-3/15

2/15-6/15

3/1-8/1

4/1–7/15

9/15-2/1

STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEING

Ds3

ISTURBED AREA TABILIZATION WITH PERMANENT VEGETATION)

PLANTING

HYDRAULIC SEEDING

CONVENTIONAL SEEDING

NO-TILL SEEDING

INDIVIDUAL PLANTS

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. EQUIPMENT.

<u>CONDITIONS</u>

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE DENUDED AREAS.

SPECIFICATIONS

AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SLOPED TO ENABLE PLANT ESTABLISHMENT.

AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE TO MANUFACTURER'S SPECIFICATIONS. REFER TO TO-TACKIFIERS AND USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG. FERTILIZER MULCHING AND MAINTENANCE OF THE VEGETATION.

SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT MULCHING PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

SEEDBED PREPARATION

SEEBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS

BROADCAST PLANTING

1.TILLAGE AT A MINIMUM. SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH PER ACRE. DRYSTRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND INDICATED ABOVE) AFTER HYDRAULIC SEEDING. FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER 3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIVER, PLACEMENT OF SEE, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON OF STRAW OF HAY MULCH IF A DISK IS TO BE USED. 2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.

EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APARTMENT IN WHICH SEED MAY LODGE AND GERMINATE. ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

MAINTENANCE

WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING. BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. ACCOMMODATE ROOTS WITHOUT CROWDING. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 WOOD CELLULOSE AND WOOD PULP FIVERS SHALL NOT CONTAIN GERMINATION INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY. PREFERABLY IN AGITATED IN WATER. THE FIBERS HALL CONTAIN A DYE TO ALLOW VISUAL AUGUST OR SEPTEMBER.

> dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Figure 6-14.1

DEFINITION

GRADING AND SHAPING

GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS

WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION

IS TO BE USED, SEEDBED PREPARATIONS WILL BE DONE AS FOLLOWS:

3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE. 4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE

lic rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled

The exit shall be maintained in a condition that

will prevent tracking or flow of mud onto pub-

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SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE

TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MY BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS, NURSERY STOCK PLANTS SHALL BE PLANTED SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH

HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS

SLOPES 3/4 :1 OR STEEPER. 4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE. 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3

QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.

7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS

METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

APPLYING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS: 1. EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF SS-1h OR CSS-1h EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE

PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION. 2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT. LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL 3. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING RINDERS

4.RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE HALF BUSHEL PER ACRE. 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON

UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESES MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION

IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

