

GENERAL NOTES:

- ALL ELEVATIONS ARE REFERRED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK.
- CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY THE AFFECTED UTILITIES 72 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE.
- THE CONTRACTOR SHALL REPLACE MONUMENTS, FENCES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION SHALL BE ALLOWED.
- THE TOPOGRAPHIC SURVEY WAS PERFORMED BY:
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- THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
- EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. THEY SHALL BE INSTALLED TO THE LIMITS AS REQUIRED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS (SEE EROSION CONTROL NOTES).
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED WITHIN THE PLANS.
- ALL STATIONING AND OFFSETS REFER TO CONSTRUCTION BASELINE UNLESS OTHERWISE NOTED ON PLANS.
- EXISTING UTILITIES AND FACILITIES SHOWN ON THE DRAWINGS WERE LOCATED FROM THE UTILITY OWNER'S RECORDS OF UNDERGROUND FACILITIES. GUARANTEE IS NOT MADE THAT ALL EXISTING FACILITIES ARE SHOWN NOR THAT THOSE FACILITIES SHOWN ARE ENTIRELY ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH EXISTING UTILITIES.
- ON ALL PUBLIC AND PRIVATE PROPERTY AFFECTED BY THIS WORK, THE CONTRACTOR SHALL, BY REPLACEMENT OR REPAIR, RESTORE TO AN EQUAL OR BETTER CONDITION ALL AFFECTED AREAS AND ITEMS INCLUDING BUT NOT LIMITED TO PAVEMENT, SIDEWALKS, LAWNS, UTILITIES, SHRUBBERY OR ANY ADDITIONAL ITEMS OR AREAS DAMAGED BY THE CONTRACTOR UNLESS SPECIFICALLY EXEMPTED ON THE PLANS WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- DURING CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL, PROTECTION AND REPLACEMENT OF ITEMS ON PRIVATE PROPERTY AND PUBLIC RIGHTS OF WAY SUCH AS SPRINKLER, FENCES, SOD, SHRUBS, TREES, SURVEY MARKERS, ETC.
- PRIOR TO EXCAVATING IN THE VICINITY OF A GAS LINE, THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES F.S. 553.851, CH 17-143.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST, ABOVE OR BELOW GROUND.
- ALL BRUSH, STRIPPINGS OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
- A DEWATERING PERMIT MAY BE REQUIRED BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PRIOR TO ANY PUMPING, ETC. AND SHALL BE OBTAINED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, PERMIT AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM TO DEWATER EXCAVATIONS FOR CONSTRUCTION. A STANDARD CONSUMPTIVE USE PERMIT FROM THE DISTRICT IS REQUIRED FOR DEWATERING ACTIVITY ABOVE 694 GPM.
- MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THAT ADEQUATE EROSION AND SEDIMENT CONTROL ARE MAINTAINED AT ALL TIMES DURING THE PROJECT. (SEE EROSION CONTROL NOTES)
- ALL CONSTRUCTION OF STORMWATER SYSTEM IMPROVEMENTS AND THE INSTALLATION OF ALL STORM SEWERS, INLETS, MANHOLES, PIPE AND APPURTENANCES SHALL CONFORM TO THE MOST RECENT EDITIONS OF THE CITY OF JACKSONVILLE STANDARDS AND APPLICABLE SECTIONS OF THE CITY OF JACKSONVILLE SPECIFICATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN THE LIMITS OF CONSTRUCTION.
- STATION/OFFSETS SHOWN ON PLANS ARE FROM CENTERLINE TO CENTERLINE OF STRUCTURE.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III.
- WATER AND SEWER CROSSINGS:
 - WHERE WATER MAINS MUST PASS OVER STORM, SANITARY AND/OR EFFLUENT REUSE LINES AND A MINIMUM CLEARANCE OF 18" CANNOT BE MAINTAINED, THE WATER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE 10' EQUIDISTANT EACH SIDE OF THE CROSSING AND PROVIDE A MINIMUM CLEARANCE BETWEEN THE WATER MAIN AND THE OTHER UTILITY.
 - A HORIZONTAL SEPARATION OF 10' MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND NON-POTABLE LINES. WHEN THIS IS NOT POSSIBLE, REPLACE PVC WITH MECHANICAL JOINT DUCTILE IRON PIPE AND LAY IN SEPARATE TRENCH. IN CASE OF RESTRICTED ACCESS REUSE WATER, A 5' MINIMUM HORIZONTAL SEPARATION IS ACCEPTABLE.
- NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK. ANY EXCESS MATERIAL OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL SHALL BECOME PROPERTY OF THE CONTRACTOR.
- IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SODS, HEAVY GROWTH OF GRASS, DECAYED VEGETABLE MATTER, RUBBISH AND OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS STARTED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIALS, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE SCARIFIED.
- ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN THE CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
- ALL EXISTING DRAINAGE PIPES WITHIN THE CONSTRUCTION LIMITS SHALL BE DESIRED UNLESS OTHERWISE NOTED WITHIN THE PLANS. ALL ROADSIDE DITCHES WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEARED, REGRADED TO MATCH PIPE INVERTS AND SODDED UNLESS OTHERWISE NOTED IN THE PLANS.
- THE CONTRACTOR SHALL RESTRICT ALL CONSTRUCTION ACTIVITY TO THE LIMITS OF THE PROPOSED AND EXISTING DRAINAGE EASEMENTS AND EXISTING RIGHT-OF-WAY.
- ALL REGULAR EXCAVATION IS TO BE CONSIDERED UNSUITABLE AND SHALL BE REPLACED WITH TYPE A-3 FILL. ALL UNSUITABLE MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR.

GEOTECHNICAL RECOMMENDATIONS:

- OVER EXCAVATION SHALL BE PERFORMED AS NECESSARY TO REMOVE A-8 AND PLASTIC MATERIALS IN THE PROPOSED STRUCTURES FOUNDATION AREA AS DIRECTED BY THE ENGINEER. DEWATER TO THE BOTTOM OF THE DEMOLISHED EXCAVATION, BACKFILL WITH A-3 (AASHTO M-145) SAND. THE SOIL BELOW PIPE CULVERT CROSSINGS AND THE STRUCTURES FOUNDATION SHALL BE COMPACTION WITH SECTION 455-31. TO ACHIEVE COMPACTION REQUIREMENTS, IT MAY BE NECESSARY TO OVER-EXCAVATE EXISTING SOIL. AT THE PROPOSED PIPE CULVERT CROSSINGS AND STRUCTURES FOUNDATION AT LEAST 12" AND 24" RESPECTIVELY AND BACKFILL WITH A-3 SAND WHICH HAS MOISTURE CONTENT AT OR BELOW OPTIMUM. ALL PIPE CULVERT CROSSINGS JOINTS (TOP AND SIDES) AND STRUCTURE/PIPE CULVERT CROSSING JOINTS SHALL BE COVERED WITH FILTER FABRIC (2 FOOT MINIMUM WIDTH) MEETING THE REQUIREMENTS OF INDEX 100, TYPE D-3 WITH MAXIMUM A.O.S. OF 0.22mm AND MINIMUM PERMITIVITY OF 0.2 SEC.
- THE CONTRACTOR SHALL ANTICIPATE THAT DEWATERING WILL BE REQUIRED TO FACILITATE PIPE CULVERT CROSSINGS AND STRUCTURE CONSTRUCTION. ALL FOUNDATIONS SHALL BE CONSTRUCTED IN THE DRY. THE CONTRACTOR SHALL USE EXTENSIVE WELL POINTS, SUMPS, DRY WELLS AND/OR OTHER NECESSARY DEWATERING METHODS AS REQUIRED TO DEWATER FOUNDATION EXCAVATIONS IN ACCORDANCE WITH SECTIONS 455-28 AND 455-29.2. THE COST OF DEWATERING SHALL BE CONSIDERED INCIDENTAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED.
- ALL GRASS, ROOTS, VEGETATION, TOP SOIL, ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS WITHIN THE BERM FOOTPRINT SHOULD BE STRIPPED AND GRUBBED, EXCEPT CLEARING AND GRUBBING TO DEPTHS OF AT LEAST 12 INCHES DEEPER CLEARING AND GRUBBING DEPTHS MAY BE ENCOUNTERED IN MORE HEAVILY VEGETATED AREAS, OR WHERE MAJOR ROOT SYSTEMS ARE ENCOUNTERED, THE ACTUAL DEPTHS(S) OF THE STRIPPING AND GRUBBING MUST BE DETERMINED BY VISUAL JUDGMENT DURING THE EARTHWORK OPERATION BY THE ENGINEER OR OWNER.
- PROOF-ROLL THE CLEARED SURFACE TO LOCATE ANY UNFORESEEN SOFT AREAS OR UNSUITABLE SURFACE OR NEAR-SURFACE SOILS. TO INCREASE THE DENSITY ANY LOOSE TO MEDIUM DENSE FINE SAND SOILS WITHIN THE TOP 2 TO 3 FEET, AND TO PREPARE THE EXISTING SURFACE FOR THE ADDITION OF THE FILL SOILS (AS REQ'D). PROOF-ROLLING OF THE BERM SUB-GRADE AREAS SHOULD BE OBSERVED BY A GEO-TECHNICAL ENGINEER OR HIS REPRESENTATIVE AND CONSIST OF AT LEAST 10 PASSES OF A SELF-PROPELLED COMPACTOR CAPABLE OF ACHIEVING THE REQUIRED DENSITIES. AREAS OF THE SITE NEAR ANY EXISTING STRUCTURES MAY HAVE TO BE STATICALLY OR WITH LESS VIBRATORY FORCE TO PREVENT DAMAGE TO THE EXISTING STRUCTURES. EACH PASS SHALL OVERLAP THE PRECEDING PASS BY 30 PERCENT TO ACHIEVE COMPLETE COVERAGE. IN AREAS THAT CONTINUE TO "YIELD", ALL DELETERIOUS MATERIAL SHOULD BE REMOVED AND REPLACED WITH CLEAN, COMPACTED SAND BACKFILL. THE PROOF-ROLLING SHOULD OCCUR AFTER CUTTING AND BEFORE FILLING.
- A DENSITY EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR (AASHTO T-180) MAXIMUM DRY DENSITY VALUE FOR A DEPTH OF 2 FEET IN THE BERM AREAS MUST BE ACHIEVED BENEATH THE STRIPPED AND GRUBBED GROUND SURFACE. ADDITIONAL PASSES AND/OR OVER EXCAVATION AND RECOMPACTION MAY BE REQUIRED IF THESE MINIMUM DENSITY REQUIREMENTS ARE NOT ACHIEVED. THE SOIL MOISTURE SHOULD BE ADJUSTED AS NECESSARY DURING COMPACTION.
- CARE SHOULD BE EXERCISED TO AVOID DAMAGING ANY NEIGHBORING STRUCTURES WHILE THE COMPACTION OPERATION IS UNDERWAY, PRIOR TO COMMENCING COMPACTION. OWNERS OF ADJACENT STRUCTURES SHOULD BE NOTIFIED AND THE EXISTING CONDITION (I.E. CRACKS) OF THE STRUCTURE DOCUMENTED WITH PHOTOGRAPHS AND SURVEY (IF NECESSARY). COMPACTION SHOULD CEASE IF DEEMED DETRIMENTAL TO ADJACENT STRUCTURES THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
- BERM SUBGRADES SHOULD BE TESTED FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 200 LINEAL FEET OF BERM. PER FOOT OF IMPROVEMENT DEPTH. THE BERM MATERIAL SHOULD ALSO BE TESTED FOR PERMEABILITY EVERY 500 FEET OR CHANGE IN FILL MATERIAL AND/OR COMPACTION PROCEDURE.
- ALL BERM FILL SHOULD BE PLACED IN LEVEL LIFTS NOT TO EXCEED 12 INCHES IN UNCOMPACTED THICKNESS. IF HAND-HELD COMPACTION EQUIPMENT IS USED, THE LIFT THICKNESS SHOULD BE REDUCED TO NOT MORE THAN 6 INCHES.
- EACH LIFT SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR (AASHTO T-180) MAXIMUM DRY DENSITY VALUE. THE FILLING AND COMPACTION OPERATIONS SHOULD CONTINUE IN LIFTS UNTIL THE DESIRED ELEVATION(S) IS ACHIEVED.
- CLAYEY SOILS MAY REQUIRE STATIC COMPACTION TECHNIQUES. PNEUMATIC RUBBER TIRE COMPACTORS AND/OR SHEEPSFOOT ROLLER COMPACTORS.
- ALL FILL MATERIAL SHOULD BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS AND VEGETATION. BERM FILL SOIL WHEN COMPACTED SHOULD HAVE A PERMEABILITY OF LESS THAN 0.1 FEET/DAY. THE TYPE OF FILL MATERIAL AND THE METHODS AND METHODS OF PLACING AND COMPACTION THE FILL IS THE CONTRACTOR'S RESPONSIBILITY. SOIL WITH PERCENT FINES (-200) OF 12 TO 15% OR GREATER WILL BE NECESSARY TO MEET THIS PERMEABILITY REQUIREMENT. SILTY TO CLAYEY FINE SANDS WILL MOST LIKELY NEED TO BE USED AS BERM FILL MATERIAL. PROPER COMPACTION EQUIPMENT AND METHODOLOGY WILL BE IMPORTANT TO BE ABLE TO COMPACT THESE SOILS TO THE NECESSARY DENSITIES.
- FILL MATERIAL FOR THE PERIMETER BERM BETWEEN SHALL BE FREE OF ORGANIC MATERIALS AND CONSIST OF CLAYEY SANDS (A-2-B OR A-2-7) AND WHEN COMPACTED SHOULD HAVE A HYDRAULIC CONDUCTIVITY OF LESS THAN 0.1 FEET PER DAY.
- THE CONTRACTOR SHALL REFER TO SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL EVALUATION REPORT (DATED SEPTEMBER 7, 2004 AND FEBRUARY 2, 2004).
- THE CONTRACTOR SHALL PREPARE A SMALL TEST STRIP OF THE PERIMETER BERM PRIOR TO CONSTRUCTION SO THAT THE CONTRACTOR'S EQUIPMENT, FILL SOIL MATERIAL AND PLACEMENT TECHNIQUES CAN BE EVALUATED AND THE COMPACTED FILL MATERIAL CAN BE TESTED FOR IN-PLACE DENSITY AND PERMEABILITY.

UTILITY OWNERS & CONTACTS

- THE CONTRACTORS SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
- UTILITY OWNERS:**
 JACKSONVILLE ELECTRIC AUTHORITY (JEA)
 WILLIAM (BILLY) STEWARD
 21 WEST CHURCH STREET T-4
 JACKSONVILLE, FL 32202-3139
 904-885-4712
 MOBILE 904-705-3162
- CITY OF JACKSONVILLE DEPT. OF PUBLIC WORKS**
 DAVID D. HAHN, P.E.
 CITY HALL ANNEX, ROOM 807
 220 WEST BAY STREET
 JACKSONVILLE, FL 32202
 904-630-4733
- BELL SOUTH**
 JAMES NEAL
 301 WEST BAY ST. ROOM 11A41
 JACKSONVILLE, FL 32202
 904-350-2255
- MEDIA ONE CABLE**
 PAUL LARRABE
 904-448-3725
- TECO PEOPLE'S GAS**
 KERMIT HOWELL
 904-739-4874
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE OTHER UTILITIES, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS. AS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
 - UTILITIES ARE TO BE ADJUSTED OR RELOCATED BY THE UTILITY COMPANIES UNLESS OTHERWISE NOTED.

EROSION CONTROL:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADDITIONAL CONTROL MEASURES AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED SITE BY THE REGULATORY AGENCIES:
- SEDIMENT BASINS AND TRAPS, PERIMETER DITCHES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP BEFORE ANY LAND-DISTURBING TAKES PLACE TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT.
 - ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
 - DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
 - AFTER ANY SIGNIFICANT RAINFALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE REPAIRED IMMEDIATELY.
 - CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
 - WHENEVER WATER SEEPS FROM A SLOPE FACE ADEQUATE DRAINAGE FOR OTHER PROTECTION SHALL BE PROVIDED.
 - SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. GRATE INLETS AND CURB INLETS SHALL BE PROTECTED WITH GRATE INLET PROTECTION PCK-1000 AND CURB INLET PROTECTION PRODUCED BY SUNTREE ISLES, INC., OR APPROVED EQUAL.
 - BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
 - WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENRICHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
 - STOCKPILING MATERIAL- NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
 - EXPOSED AREA LIMITATION- THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS AND FILLING OPERATIONS SHALL NOT EXCEED 1 ACRE. IF THE TOTAL AREA TO BE CLEARED IS EQUAL TO OR EXCEEDS ONE (1) ACRE, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA'S NPDES REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE ON INTENT (NOI) TO EPA FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION.
 - A NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES APPLIES TO THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NPDES PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MODIFYING THE NPDES PERMIT AND FOR THE SWPPP FOR CONSTRUCTION ACTIVITIES TO MEET CHANGING PROJECT SITE CONDITIONS. PAYMENT FOR ALL WORK AND MATERIALS NECESSARY FOR PREPARATION, MODIFICATION, SUBMITTAL OF THE NPDES AND/OR SWPPP FOR CONSTRUCTION ACTIVITIES AND FOR IMPLEMENTATION DURING CONSTRUCTION SHALL BE INCLUDED IN THE MOBILIZATION PAY ITEM (LUMP SUM). NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
 - WHEN ALL DISTURBED SOILS HAVE BEEN STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED, THIS CONSTITUTES THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES. AT THIS TIME THE CONTRACTOR SHALL COMPLETE AND FILE A NOTICE OF TERMINATION (NOT) TO APPROPRIATE PERMITTING AGENCIES.
 - TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASS TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
 - TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 12 ABOVE LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
 - TEMPORARY GRASSING: THE SEEDER OR SEEDER AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.
 - TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
 - MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
 - PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
 - PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SODDED.
 - SEE ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES IN SECTION 31 (SPECIAL CONDITIONS).

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 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION

PROJECT NO. 20518.200
 DATE MAY 2007
 SCALE AS SHOWN

PUTNAM-HUDNALL DRAINAGE IMPROVEMENTS
GENERAL NOTES
 AND UTILITY CONTACTS

SHEET NO.
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 DRAWING NAME
 GENOTES