

GENERAL NOTES

- TOPOGRAPHIC AND BOUNDARY SURVEY BY GTC PUBLIC WORKS, 2226 BROWNS FERRY ROAD, (434) 346-4488
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATION OF ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS. CALL UTILITY COMPANIES BEFORE EXCAVATION TO LOCATE ALL BURIED CABLES AND UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY SITE VISITS AND INSPECTIONS TO FAMILIARIZE HIMSELF WITH THE PROJECT AND MAKE ANY INVESTIGATIONS WHICH ARE APPROPRIATE TO CONFIRM THE SOILS/GEOTECHNICAL INFORMATION, TOPOGRAPHIC INFORMATION, WELLS/AND, UTILITIES, ETC. TO BE ABLE TO PREPARE HIS BID FOR CONSTRUCTING THE PROJECT IN ACCORDANCE WITH THE DRAWINGS AND INFORMATION PROVIDED FOR BIDDING. THE CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE ENGINEERS FOR A REVIEW IF ANY DISCREPANCIES ARE DISCOVERED AT THE SITE OR ON THE DRAWINGS.
- ALL REFERENCE TO SPECIFICATIONS FOR HIGHWAY CONSTRUCTION OR MATERIALS ARE MADE FROM SOUTH CAROLINA HIGHWAY DEPARTMENT'S STANDARD SPECIFICATIONS, LATEST EDITION.
- A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK.
- CONTRACTOR SHALL PROTECT ALL TREES THAT ARE TO REMAIN AS MARKED IN THE FIELD BY OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER IS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTORS PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE CONTRACTORS SAFETY MEASURES, IN OR NEAR THE CONSTRUCTION SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES. THE CONTRACTOR IS TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, AND SAFETY MEETING REQUIREMENTS.
- THE CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION THAT INTERFERE WITH NEW CONSTRUCTION. REMOVE DEBRIS FROM SITE IN ACCORDANCE WITH LOCAL LAWS. THE CONTRACTOR SHALL PROTECT ALL TREES THAT ARE TO REMAIN.
- WITHIN ALL NOTES, THE TENDR CONTRACTOR SHALL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR OR VENDOR PERFORMING CONSTRUCTION ON THE SITE.
- THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY AND LOCAL MUNICIPALITIES.
- GENERAL CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED PRIOR TO THE START OF THE PROJECT.
- ANY CONSTRUCTION TRAILERS USED ON-SITE BY THE CONTRACTOR (IF NECESSARY) SHALL BE PERMITTED THROUGH LOCAL GOVERNING AGENCY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ACQUIRE ALL NECESSARY PERMITS. CONTRACTOR MAY UTILITY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS AND UTILITY CONNECTIONS.
- THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT AVAILABLE FROM THE OWNER AND COMPLY WITH ALL REMOVE RECOMMENDATIONS. IF A CONFLICT ARISES BETWEEN CIVIL DOCUMENTS AND GEOTECHNICAL REPORT, THE MORE STRINGENT SHALL GOVERN.
- CONTRACTOR SHALL SCRAPPY AND REMOVE ALL EXISTING ASPHALT PAVEMENT WHERE NECESSARY BEFORE PLACING FILL.
- THE GRADING CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM HOUSES AT ALL TIMES. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY AREAS THAT MAY NOT DRAIN PROPERLY DURING CONSTRUCTION.
- GRADING CONTRACTOR SHALL INCLUDE IN COST ALL CUT/FILL NECESSARY FOR EARTHWORK BALANCE. CONTRACTOR SHALL INCLUDE IN COST ALL WETLANDS OR SOILS NECESSARY TO ACHIEVE COMPACTION PER SPECIFICATIONS.
- THE SEQUENCE OF WORK SHALL CONFORM TO THE EROSION CONTROL NARRATIVE.
- SEDIMENT CONTROLS DURING CONSTRUCTION SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND REGULATIONS. AFTER ALL SITEWORK IS COMPLETED AND GRASSING ESTABLISHED, THE GRADING CONTRACTOR SHALL REMOVE ALL SILT FROM THE SITE AND LEGALLY DISPOSE OF ALL SILT OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE WHEN INSTRUCTIONS FROM REGULATORY AGENCIES ARE RECEIVED AND DO NOT COMPLY WITH INSTRUCTIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL AT ONCE REPORT TO THE ENGINEER ANY INCONSISTENCIES OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ANY UTILITIES OR IN ANY PUBLIC RIGHT-OF-WAY UNLESS HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENT AND CONSTRUCTION PERMITS.
- THE CONTRACTOR SHALL VERIFY BENCH MARK LOCATION AND ELEVATION WITH SURVEYOR BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EASEMENTS ON THE SITE BEFORE PROCEEDING WITH CONSTRUCTION.
- IN THE CASE OF A CONFLICT WITH THE GEORGETOWN COUNTY STANDARD SPECIFICATIONS, THE COUNTY SPECS SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE FOR CLARIFYING ANY CONFLICTS OR AMBIGUITIES.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR POSTING ALL REQUIRED BONDS THAT GENERAL CONTRACTORS ARE ALLOWED TO POST.
- FLOOD PLAINS, FLOODWAYS, NOR WETLANDS SHALL BE DISTURBED AS PART OF THIS PROJECT.
- ANY CONCRETE DRIVEWAY, WALKWAY, OR CURB THAT IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER IS TO BE REPLACED, BUT IS REMOVED, MISLIGNED OR DAMAGED AS A RESULT OF CONSTRUCTION, THE PROTECTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.
- SELECTIVE CLEARING AREAS SHALL REMAIN UNDISTURBED UNTIL APPROVED FOR CLEARING BY THE LANDSCAPE ARCHITECT TO ALLOW FOR POSSIBLE PRESERVATION OF EXISTING SPECIMEN TREES WHICH MAY BE SAVED.
- THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.
- THE REQUIREMENTS OF GEORGETOWN COUNTY WATER & SEWER DISTRICT (GOWSD) STANDARD SPECIFICATIONS AND STANDARD DETAILS SHALL GOVERN ALL UTILITIES WORK, WHERE A CONFLICT EXISTS IN THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF GEORGETOWN COUNTY WATER & SEWER DISTRICT (GOWSD) SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT THOSE REQUIREMENTS SHALL PREVAIL.
- NO PORTION OF THE WORK SHALL BE ACCOMPLISHED UNTIL THE APPROPRIATE PERMITS AND APPROVALS FOR THAT WORK HAVE BEEN OBTAINED. THE CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND THEY SHALL BE RETAINED AT THE PROJECT SITE AT ALL TIMES FOR INSPECTION BY THE OWNERS REPRESENTATIVE.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES. LOCATION OF UTILITIES ON THE PLAN, WHETHER FULLY AND CORRECTLY LOCATED OR OMITTED, WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF IDENTIFYING AND PROTECTING ALL UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE UTILITY AS SHOWN AND DESCRIBED AND IN CONFORMANCE WITH GEORGETOWN COUNTY SPECIFICATIONS AND REQUIREMENTS. HE SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
- A SIGN ON OTHER NOTICE WILL BE POSTED CONSPICUOUSLY NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE INDICATING THE LOCATION OF THE SWPPP. THE COPY OF THE SWPPP IS REQUIRED TO BE KEPT ON-SITE OR LOCALLY AVAILABLE MUST BE MADE AVAILABLE, IN ITS ENTIRETY TO DHEC OR THE EPA STAFF FOR REVIEW AND COPYING AT THE TIME OF AN ON-SITE INSPECTION. 10-10 TO FERTILIZER FOR PERMANENT GRASSING AT 1000 LBS/AC. STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRES.

SCDHEC STANDARD NOTES

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SOIL DRAINS DURING CONSTRUCTION. TEMPORARY SOIL DRAINS WILL BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND, CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS.
 - TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION, FILL COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH G.S. REG. 72-200 ET SEQ. AND SCRT00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UP-SLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- WATERS OF THE STATE (WWS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WWS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WWS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) OR CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTAINER.
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND / OR SO's WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS POSSIBLY.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.
 - NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE BIDDING.
 - NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZED. INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED DURING CONSTRUCTION SHOULD OCCUR AFTER SITE STABILIZATION.
 - NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
 - NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR WHEN THE PERMIT ACTION SEQUENCE MUST SPECIFICALLY ADDRESS THESE AREAS), THE CONTRACTOR MUST CONTINUE TO MAINTAIN AND OPERATE THE STRUCTURES ARE COMPLETELY INSTALLED.
 - CLEANING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
 - CLEANING & GRUBBING ONLY IN AREAS OF BASINS/TRAPS/PONDS.
 - INSTALLATION OF BASINS/TRAPS/PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES. OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN IN THE DETAILS BEFORE PROCEEDING TO NEXT STEP. AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURES ARE COMPLETELY INSTALLED.
 - CLEANING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
 - ROUGH GRADING.
 - INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
 - FINE GRADING, PARKING, ETC.
 - PERMANENT FINAL STABILIZATION.
 - CLEAN-OUT OF DETENTION BASINS THAT WERE USED AS SEDIMENT CONTROL STRUCTURES AND RE-GRADING OF DETENTION POND BOTTOMS, IF NECESSARY. MODIFICATION OF SEDIMENT BASIN RISER TO CONVERT TO DETENTION BASIN OUTLET STRUCTURE.
 - REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER OPERATOR HAVE THE SWPPP PREPARE OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES.)
 - SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.
 - NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE BIDDING.
 - NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZED. INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED DURING CONSTRUCTION SHOULD OCCUR AFTER SITE STABILIZATION.
 - NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
 - NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR WHEN THE PERMIT ACTION SEQUENCE MUST SPECIFICALLY ADDRESS THESE AREAS), THE CONTRACTOR MUST CONTINUE TO MAINTAIN AND OPERATE THE STRUCTURES ARE COMPLETELY INSTALLED.
 - NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM OFFSITE AREAS, THEN THE DIVERSIONS/PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGAIN ON THE SITE. INCLUDE THIS IN THE SEQUENCE.
 - SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND BEFORE CONSTRUCTION BEGINS IN THESE AREAS.
 - NOTE: IF AN EXISTING DETENTION SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED DEVELOPMENT, THEN IT MUST BE MODIFIED BEFORE LAND-DISTURBING ACTIVITIES BEGAIN ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.

TEMPORARY SEEDING

SPECIES	RATES PER ACRE	PLANTING DATES	REMARKS
BROWN TOP MILLET	40 LBS.	4/1-7/15	137,000 SEED PER POUND QUICK DENSE COVER
RYEGRASS (ALONE)	90 LBS.	9/01-11/15	227,000 SEED PER POUND DO NOT USE IN MIXTURES
WHEAT (ALONE)	180 LBS.	10/01-12/15	15,000 SEEDS PER POUND WINTERHARDY
OATS (ALONE)	128 LBS.	9/15-11/15	13,000 SEEDS PER POUND USE IN PRODUCTIVE SOILS

NOTE: USE 10-10 FERTILIZER FOR TEMPORARY GRASSING AT 500 LBS/AC. STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.

PERMANENT SEEDING

SPECIES	RATES PER ACRE	PLANTING DATES	REMARKS
ANNUAL RYE GRASS	15 LBS.	8/15-2/28	QUICK COVER
COMMON BERMAUDA GRASS (ANKLEDEE)	40 LBS.	8/15-2/28	PLANT WITH TALL FESCUE
TALL FESCUE	80 LBS.	8/15-2/28	MIX WITH PERENNIAL LESPEDEZAS

GRASSING NOTES

- AREAS TO BE GRASSED SHALL BE DEFINED AS ALL AREAS OF SITE WITHIN THE GRADING LIMITS AND NOT OCCUPIED BY PAVING, CRUSHED STONE SURFACING OR STRUCTURES. GRASSING SHALL INCLUDE FINAL SHAPING, LIMING, FERTILIZING AND SEEDING.
- LIME SHALL BE AGRICULTURAL GRADE, GROUND LIMESTONE, GROUND LIMESTONE SHALL CONTAIN NOT LESS THAN 88% OF CALCIUM CARBONATE CONTENT EQUIVALENT AND SHALL BE SUCH A FINENESS THAT 90% WILL PASS THROUGH A NO. 100 SIEVE AND NOT LESS THAN 50% THROUGH A NO. 50 SIEVE.
- FERTILIZER SHALL BE GRADE 10-10-10 COMPLETE FERTILIZER OF UNIFORM COMPOSITION, FREE-FLOWING AND SUITABLE FOR APPLICATION WITH EQUIPMENT. DELIVERED TO SITE IN BAGS LABELED WITH MANUFACTURER'S QUANTIFIED ANALYSIS, AND SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS. FERTILIZER SHALL BE DISTRIBUTED UNIFORMLY AT A RATE OF 10 LBS/AC. PER ACRE AND SHALL BE INCORPORATED INTO SOIL TO A DEPTH OF AT LEAST 7" BY DISKING AND HARROWING.
- SEEDS SHALL BE MIXTURE AS APPROVED BY THE ENGINEER AND SHALL MEET REQUIREMENTS OF SEED LAWS OF THE STATE AND THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER FEDERAL SEED ACT IN EFFECT ON DATE BIDS ARE RECEIVED. SEED SHALL BE DELIVERED IN STANDARD CONTAINERS. SEED WHICH HAS BECOME WET, MOLDY OR DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTABLE.
- MULCH SHALL CONSIST OF SMALL, GRASS STRAW OF GOOD QUALITY, CLEAN, FREE OF NOXIOUS WEEDS, AND REASONABLY FREE OF OTHER WEEDS. SPREAD MULCH AT A RATE OF 1 TON PER ACRE ON SLOPES UP TO 8.0 %.
- SPREAD LIME AT A RATE OF 2.000 LBS. PER ACRE.
- SPREAD SEED AT A RATE AS NOTED IN THE TABLES BELOW.
- IMMEDIATELY AFTER FERTILIZING AND SEEDING HAVE BEEN COMPLETED, ENTIRE AREA SHALL BE COMPACTED BY MEANS OF A CULTIVATOR, ROLLER, OR APPROVED EQUIPMENT WEIGHING APPROXIMATELY 50 LBS. PER LINEAR FOOT OF ROLLER. USE OF SPECIFIED MULCH, APPLIED AT A RATE OF 1-2 TONS/ACRE (USE THE HIGHER RATE FOR 3 TO 4 FEET OR GREATER), WITH ASPHALT EMULSION TYPE #581, #582, #581, OR #582, SHALL BE USED TO PROTECT SITE AGAINST EROSION.
- MULCH SHALL BE REMOVED FROM PAVED AREAS.
- ALL DISTURBED AREAS ARE TO BE GRASSED IMMEDIATELY AFTER CONSTRUCTION IN THE AREA. AT NO TIME WILL AN AREA BE LEFT BARE FOR MORE THAN 14 DAYS AFTER COMPLETION OF CONSTRUCTION.
- ENSURE THAT THE AREAS SEEDING ARE UNIFORM AND CONFORM TO THE FINISHED SURFACE OF THE ENGINEER. WHEN ANY PORTION OF SURFACE BECOMES GULLED OR OTHERWISE DAMAGED DURING SEEDING, OR SEEDING HAS BEEN WINTER-KILLED OR OTHERWISE DESTROYED, AFFECTED PORTION SHALL BE REPAIRING WITH G.S. REG. 72-200 ET SEQ. AND SCRT00000.
- SEEDING AND MULCH SHALL BE RE-SEEDING AS SPECIFIED ABOVE.
- ALL DISTURBED AREAS ARE TO BE GRASSED IMMEDIATELY AFTER CONSTRUCTION IN THE AREA. AT NO TIME WILL AN AREA BE LEFT BARE FOR MORE THAN 14 DAYS AFTER COMPLETION OF CONSTRUCTION.
- ENSURE THAT THE AREAS SEEDING ARE UNIFORM AND CONFORM TO THE FINISHED SURFACE OF THE ENGINEER. WHEN ANY PORTION OF SURFACE BECOMES GULLED OR OTHERWISE DAMAGED DURING SEEDING, OR SEEDING HAS BEEN WINTER-KILLED OR OTHERWISE DESTROYED, AFFECTED PORTION SHALL BE REPAIRING WITH G.S. REG. 72-200 ET SEQ. AND SCRT00000.
- LOOSEN THE SEEDING (INCLUDING CUT SLOPES) TO A MINIMUM DEPTH OF 3 INCHES BEFORE SEEDING. AFTER SEEDING IS COMPLETED, FERTILIZER OR SEED SHALL BE CLEAR THE AREAS TO BE SEEDING OF STONES LARGER THAN 1/2 INCHES IN ANY DIMENSION, ROOTS AND OTHER DEBRIS.
- PRODUCE A SATISFACTORY STATE OF PERENNIAL VEGETATION WITH A ROOT SYSTEM THAT IS DEEPLY SUFFICIENT TO SURVIVE DRY PERIODS AND WINTER WEATHER AND IS CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE PERENNIAL VEGETATION COVER MUST HAVE A MINIMUM COVERAGE DENSITY OF 70% FOR THE SEEDING AREA.
- HYDROSEED USING 1500 POUNDS PER ACRE OF WOOD CELLULOSE OR A WOODCELLULOSE MIX HYDROSEEDING MULCH WITH THE MANUFACTURER'S RECOMMENDED RATE OF AN APPROVED TACKING AGENT.
- IN THE CASE OF A CONFLICT WITH THE LANDSCAPE NOTES, THE LANDSCAPE SPECS SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE FOR CLARIFYING ANY CONFLICTS OR AMBIGUITIES.

DHEC CONSTRUCTION SEQUENCE

- ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNLESS SPECIFICALLY NOTED.
- RECEIVE NPDES COVERAGE FROM DHEC.
- PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR) AT THE PROJECT LOCATION BEFORE THE START OF CONSTRUCTION.
- LAND-DISTURBING ACTIVITIES.
- INSTALLATION OF CONSTRUCTION TRENCHES.
- CLEANING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
- INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE).
- CLEANING & GRUBBING ONLY IN AREAS OF BASINS/TRAPS/PONDS.
- INSTALLATION OF BASINS/TRAPS/PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES. OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN IN THE DETAILS BEFORE PROCEEDING TO NEXT STEP. AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURES ARE COMPLETELY INSTALLED.
- CLEANING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- ROUGH GRADING.
- INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
- FINE GRADING, PARKING, ETC.
- PERMANENT FINAL STABILIZATION.
- CLEAN-OUT OF DETENTION BASINS THAT WERE USED AS SEDIMENT CONTROL STRUCTURES AND RE-GRADING OF DETENTION POND BOTTOMS, IF NECESSARY. MODIFICATION OF SEDIMENT BASIN RISER TO CONVERT TO DETENTION BASIN OUTLET STRUCTURE.
- REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER OPERATOR HAVE THE SWPPP PREPARE OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES.)
- SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.
 - NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE BIDDING.
 - NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZED. INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED DURING CONSTRUCTION SHOULD OCCUR AFTER SITE STABILIZATION.
 - NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
 - NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR WHEN THE PERMIT ACTION SEQUENCE MUST SPECIFICALLY ADDRESS THESE AREAS), THE CONTRACTOR MUST CONTINUE TO MAINTAIN AND OPERATE THE STRUCTURES ARE COMPLETELY INSTALLED.
 - NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM OFFSITE AREAS, THEN THE DIVERSIONS/PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGAIN ON THE SITE. INCLUDE THIS IN THE SEQUENCE.
 - SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND BEFORE CONSTRUCTION BEGINS IN THESE AREAS.
 - NOTE: IF AN EXISTING DETENTION SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED DEVELOPMENT, THEN IT MUST BE MODIFIED BEFORE LAND-DISTURBING ACTIVITIES BEGAIN ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.

DEMOLITION AND CLEARING NOTES

- THE CONTRACTOR SHALL INCLUDE IN HIS BID, CLEARING AND GRUBBING, THE LANDSCAPE ARCHITECT AND/OR ENGINEER SHALL DESIGNATE WHICH AREAS SHALL BE CLEARED UNDER THIS CONTRACT AND SHALL DESIGNATE TREES TO REMAIN WITHIN THE AREAS TO BE CLEARED.
- OWNERS REPRESENTATIVE, GOVERNING AGENCIES AND UTILITY COMPANIES SHALL BE NOTIFIED.
- 2 HOURS PRIOR TO ANY DEMOLITION OPERATIONS.
- CONTRACTOR SHALL COORDINATE WITH GOVERNING AGENCIES AND ALL UTILITY COMPANIES TO COORDINATE TIMING OF AND RESPONSIBILITY OF DEMOLITION OPERATION INCLUDING ANY REQUIRED INSPECTIONS.
- UTILITIES TO REMAIN IN PLACE SHALL BE PROTECTED BY THE CONTRACTOR FROM DAMAGE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES.
- ANY HISTORICALLY SIGNIFICANT ARTICLES (CORNER STONES, ETC.) FOUND DURING CONSTRUCTION SHALL BE PRESENTED TO THE OWNER FOR CLASSIFICATION. CONTRACTOR STOP WORK IN THE AREA OF THE FIND AND IMMEDIATELY NOTIFY THE OWNER AND GOVERNING AGENCIES FOR DIRECTION. THE OWNER SHALL RETAIN ALL MATERIAL IT CONSIDERS SIGNIFICANT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE.
- THE CONTRACTOR SHALL TURN OVER ANY REMOVED PUBLIC UTILITY ITEMS, I.E. WATER METERS, TO THE UTILITY DEPARTMENT. ALL OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- ALL DEBRIS FROM DEMOLITION OPERATION SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- TREES TO BE SAVED SHALL BE PROTECTED FROM CONSTRUCTION DISTURBANCE PER DETAIL. TREES NOT SHOWN TO BE SAVED SHALL BE REMOVED.
- CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO ANY SITE CONSTRUCTION OR DEMOLITION. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, BOTH MAN AND SERVICE LINES FOR THE FOLLOWING:
 - POTABLE WATER LINES
 - SANITARY SEWER LINES
 - ELECTRIC LINES (OVERHEAD AND UNDERGROUND)
 - GAS LINES
 - TELEPHONE LINES
 - CABLE TELEVISION LINES
 - STORMWATER CONVEYANCE LINES
- UNLESS SPECIFICALLY NOTED ON THE PLAN TO BE ABANDONED IN PLACE OR PROTECTED, ALL UTILITIES ON SITE (OVERHEAD OR UNDERGROUND) SHALL BE ENTIRELY REBUILT TO THE PROPERTY LINE, OR SERVICE POLE, ENDS OF PIPES BEYOND PROPERTY LINE TO BE ABANDONED SHALL BE PROPERLY CAPPED OR PLUGGED AS REQUIRED BY GOVERNING UTILITY COMPANY. ANY ACTIVE ELECTRIC PIPES MAINTAINED BY SANTEE ELECTRIC SHALL BE COORDINATED WITH SANTEE ELECTRIC FOR REMOVAL.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY TRAFFIC CONTROL MEASURES NECESSARY FOR DEMOLITION OPERATIONS.
 - GRADING AND DRAINAGE NOTES
- ALL PAVING, CONSTRUCTION MATERIALS, AND WORKMANSHIP WITH SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION'S (S.C.D.O.T.'S) RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH S.C.D.O.T.'S SPECIFICATIONS AND STANDARDS.
- ALL UNPAVED AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED. ALL NEWLY CLEARED RIGHT-OF-WAYS SHALL BE SEEDING AND MULCHED WITHIN 14 DAYS OF CONSTRUCTING NEW STREET.
- TRAFFIC CONTROL ON ALL CITY/COUNTY STATE RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE SOUTH CAROLINA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (SCDOT) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED AS INDICATED. OTHERWISE ALL OTHER AREAS SHALL BE SEEDING AND MULCHED.
- THE CONTRACTOR SHALL GRADE AROUND EXISTING TREES DESIGNATED TO REMAIN AND MAINTAIN A 5' UNDISTURBED AREA FROM AROUND THE DRIP LINE. THE RIGHTS-OF-WAY SHALL BE CLEARED AND GRUBBED BY REMOVING ALL TREES, SHRUBS, STUMPS, ROOTS, MUCK, AND OTHER DELETERIOUS MATERIAL PRIOR TO FILLING. ALL FILL MATERIAL USED ON SITE SHALL BE VOID OF STUMPS, ROOTS, MUCK, AND ALL OTHER DELETERIOUS MATERIALS.
- ALL CONCRETE USED ON SITE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS. ALL CONCRETE SIDEWALKS SHALL HAVE JOINTS CUT ON 5' CENTERS AND EXPANSION JOINTS PLACED ON 25' CENTERS.
- ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE, AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL JOINT SHALL BE SEALED WITH GASKETS CONFORMING TO AASHTO M 198 & WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL EXTEND NO LESS THAN 24 INCHES ON EACH SIDE OF THE JOINT.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS NOTED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT "DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN BARE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND BACK FILL WITH TOPSOIL.
- THE CONTRACTOR SHALL INSTALL INLET PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE DESIRED AS REQUIRED DURING FLOWS AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE ALL REQUIRED INSPECTIONS IN ADVANCE, IF WORK REQUIRING INSPECTION IS PERFORMED WITHOUT PRIOR NOTICE BEING GIVEN TO SCDOT, THAT INSTALLATION SHALL BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE. SEVERAL MEANS OF CONTACT WILL BE GIVEN AT THE PRECONSTRUCTION MEETING. FAILURE TO OBTAIN CONTACT IS NOT AN APPROVAL TO PROCEED WITH ANY WORK.
- NO VEGETATION INSTALLED ON PRIVATE PROPERTY SHALL BLOCK THE SCDOT SIGHT TRIANGLES OR SIGHT DISTANCES FOR MOTORISTS INGRESS OR EGRESS FROM APPROVED DRIVEWAYS AND ROADWAY INTERSECTIONS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR KEEPING OFFSITE LANDSCAPING PROPERTY MAINTAINED TO IMPROVE ALL SIGHT DISTANCES. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO SIDEWALK, DRIVEWAY OR ROADWAY, UTILITY, DRAINAGE OR OTHER STRUCTURES DAMAGED DUE TO THE INSTALLATION OR EXISTENCE OF OFFSITE LANDSCAPING.
- THE DEPARTMENT SHALL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY AS A RESULT OF ROUTINE HIGHWAY MAINTENANCE OPERATIONS. THESE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO ARV, METERS, VALVES, MANHOLES, ALL TYPE OF PRECASTS AND UTILITY LINES (OVERHEAD AND/OR UNDERGROUND). THE APPLICANT SHOULD USE MECHANICAL KNOWLEDGE TO AVOID ANY TYPE STRUCTURES TO INCREASE VISIBILITY FOR HIGHWAY MAINTENANCE WORKERS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS CONSTRUCTED RECORD DRAWINGS PREPARED BY A SOUTH CAROLINA REGISTERED LAND SURVEYOR OF THE STORM DRAINAGE SYSTEM, PONDS, DETAILED OUTFALL STRUCTURE DATA WHICH MEET ALL APPLICABLE DHEC/COUNTY AND GEORGETOWN COUNTY REQUIREMENTS. THE ENGINEER SHALL BE PROVIDED A COPY OF ALL RECORD DRAWINGS FOR REVIEW AND APPROVAL FOR CERTIFICATION TO OBTAIN SCOTCHDOPE AND GEORGETOWN COUNTY NOTICE OF TERMINATION FOR THE NPDES PERMIT.
- APPLICANT IS RESPONSIBLE FOR THE INSTALLATION AND SECURING OF ANY VALVE OR MANHOLE RISERS AS NEEDED.
- THE DEPARTMENT SHALL BE HELD HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES AND LOSSES ASSOCIATED WITH WORK AS APPROVED UNDER THIS PERMIT APPLICATION. ANY SUCH DAMAGE CLAIMS RECEIVED BY THE DEPARTMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO PROCEED ACCORDINGLY. THE HOLD HARMLESS AGREEMENT SHALL BE FOR THE LIFE OF THE FACILITY, STRUCTURE(S) OR ENCROACHMENT AS IT REMAINS WITH PUBLIC RIGHT-OF-WAY.
- APPLICANT IS RESPONSIBLE FOR THE REPAIR OF ANY TRAFFIC SIGNAL LOOPS/WIRES/HEAD/CABINETS IF DAMAGED DUE TO THIS INSTALLATION. ALL WORK SHALL BE APPROVED UNDER THE DIRECTION OF THE SCOT DISTRICT SIGNAL SHOP AND PERFORMED BY A SCDOT APPROVED SIGNAL CONTRACTOR, AT NO EXPENSE TO THE DEPARTMENT.

SCDOT STANDARD NOTES

- THERE CAN BE NO WORK PERFORMED IN THE SCDOT R/W BEFORE AN ENCROACHMENT PERMIT HAS BEEN ISSUED AND A PRECONSTRUCTION MEETING HAS BEEN HELD. THE PROPERTY OWNER AND CONTRACTOR MUST SCHEDULE AND ATTEND THE PRECONSTRUCTION MEETING.
- ANY WORK PERFORMED BEFORE THE PRECONSTRUCTION MEETING WILL TAKE PLACE WITHOUT SCDOT KNOWLEDGE, OVERSIGHT, AND CONSENT AND SHALL BE SUBJECT TO REMOVAL BY THE APPLICANT AND/OR A THE APPLICANT'S EXPENSE.
- ANY REVISIONS TO THIS APPROVED PLAN SET MUST HAVE PRIOR, WRITTEN APPROVAL FROM SCDOT OR BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE.
- THE CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT THE LOCATION DESIGNATED IN THIS PLAN SET AND ACCORDING TO SCDOT TYPICAL 815-00-00. NO ADDITIONAL ENTRANCES OR LOCATIONS OTHER THAN SHOWN IN THIS PLAN SET ARE ALLOWED WITHOUT WRITTEN NOTICE FROM SCDOT. APPROVED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PROPERLY AND SHALL BE MAINTAINED AT ALL TIMES. KEEP ROADWAY PROTECTED AND SWEEP OFF AT ALL TIMES. ANY ADDITIONAL, EXISTING DRIVEWAYS OR CONSTRUCTION ENTRANCES, IF ANY, SHALL BE REMOVED FROM SCDOT RIGHT OF WAY AT NO EXPENSE TO SCDOT.
- NO DEWATERING ACTIVITIES SHALL BE PERFORMED WITHIN SCDOT R/W OR BRING FORTH WATER TO THE SCDOT RIGHT OF WAY BY DIRECT OR INDIRECT METHODS.
- POST DEVELOPMENT STORMWATER FLOWS TO THE SCDOT R/W CANNOT EXCEED PREDEVELOPMENT FLOW RATES AT ANY TIME FOR ANY REASON.
- THE APPLICANT IS SOLELY RESPONSIBLE FOR REPAIRS OF ANY AND ALL DAMAGE TO THE TRAVEL WAY DUE TO ANY WORK ALONG THE FRONTAGE OF THIS SITE, AT NO EXPENSE TO SCDOT AND ALL REPAIRS MUST MEET CURRENT SCDOT STANDARDS.
- ANY DAMAGE TO THE TRAVEL LANE WILL REQUIRE A FULL DEPTH ASPHALT PATCH AND TOTAL ROADWAY (ALL ADJACENT TRAVEL LINES) ASPHALT OVERLAY. PATCHES LARGER THAN A FEW SQUARE FEET OR EXTENDING PAST 1 FOOT INTO THE TRAVEL LANE SHALL REQUIRE AN OVERLAY OF THE ENTIRE WIDTH OF THE EXISTING TRAVEL WAY FOR 50 FEET BEYOND EACH SIDE OF THE FULL DEPTH PAVEMENT. THIS WORK WILL BE SOLELY AT THE EXPENSE OF THE APPLICANT AND MUST MEET CURRENT SCDOT STANDARDS.
- BEFORE INSTALLATION OF ANY NEW DRIVEWAY, THE EXISTING TRAVEL EDGE MUST BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM EDGE ALONG THE MOUTH OF THE PROPOSED DRIVEWAY. CARE MUST BE TAKEN TO NOT DAMAGE THE EDGE ONCE CUT. ANY DAMAGE TO THE TRAVEL LANE MUST BE REPAIRED AT THE APPLICANT'S EXPENSE.
- PAVEMENT SECTION IN THE SCDOT R/W SHALL BE, AT A MINIMUM:
 - 6 INCHES OF COMPACTED GABC
 - 6 INCHES OF COMPACTED TYPE 1 BINDER COURSE HOT MIX ASPHALT
 - 2 INCHES OF COMPACTED TYPE 8 SURFACE COURSE HOT MIX ASPHALT
 - SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR SURFACE COURSE HOT MIX ASPHALT INSTALLATION TIME AND TEMPERATURE RESTRICTIONS AND THERMO PLASTIC TIME AND TEMPERATURE RESTRICTIONS.
 - OR
 - 6 INCHES OF COMPACTED GABC
 - 6 INCHES OF 4000 PSI CONCRETE

NO REINFORCEMENT WIRE, REBAR, OR METAL OF ANY KIND IS PERMITTED
- DRIVEWAY LANES SHALL BE A MINIMUM OF 12 FEET IN WIDTH MEASURED FROM EDGE TO EDGE OF ASPHALT.
- DRIVEWAY RADI SHALL BE 30 FEET. (UNLESS NOTED OTHERWISE ON THE SCDOT APPROVED PLANS.)
- PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH REFLECTIVE BEADS PER SECTION 627 OF THE SCDOT STANDARD SPECIFICATIONS.
 - a. ALL WHITE MARKINGS SHALL BE 125 MIL MINIMUM THICKNESS
 - b. ALL YELLOW MARKINGS SHALL BE 90 MIL MINIMUM THICKNESS
- ALL PERMANENT SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS PER SCDOT STANDARD DRAWING 651-110-00 AND SHALL HAVE A VERTICAL FOOT CLEARANCE FROM THE GROUND TO THE BOTTOM OF THE SIGN.
- DRIVEWAYS SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF A 2 FOOT GRASSED SHOULDER ON EACH SIDE OF THE DRIVEWAY THREAT.
- DITCH SLOPES SHALL BE NO STEEPER THAN 3H:1V.
- ALL CURVBETS INSIDE OF THE SCDOT R/W ARE TO BE INSTALLED WITH BEVELLED ENDS

SITE LAYOUT LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING		
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
STONE BASE		
CONCRETE SIDEWALK		
CUT AND PATCH		
CENTERLINE		
CURB & GUTTER		
FENCE (AS INDICATED)		
RIGHT-OF-WAY LINE		
SIGN (POST MOUNTED)		
TRAFFIC FLOW ARROW		
TREE TO BE REMOVED		

UTILITIES LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER		
WATER LINE W/SIZE		
UNDERGROUND ELECTRIC		
CLEANOUT		
FIRE HYDRANT ASSEMBLY		
FORCE MAIN W/SIZE		
GAS LINE		
GATE VALVE & BOX		
HOSE BIBB		
OVERHEAD WIRE		
FIRE DEPT. CONNECTION		
SANITARY SEWER		
TAPPING SLEEVE & VALVE		
TELEPHONE		
TELEPHONE LINE		
WATER METER		
UTILITY POLE		

SEDIMENT AND EROSION CONTROL LEGEND

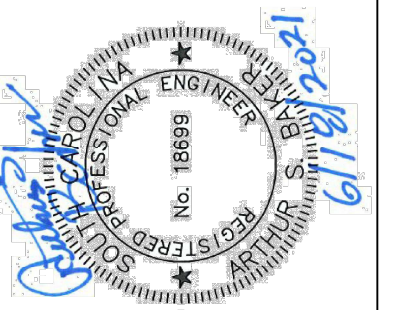
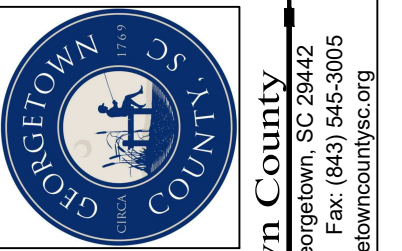
SYMBOL	PRACTICE	DESCRIPTION
	TYPE - A FILTER FABRIC INLET PROTECTION	A TEMPORARY SEDIMENT BARRIER LAID AROUND A STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
	TYPE - A SEDIMENT TUBE INLET PROTECTION	USE SEDIMENT TUBE INLET PROTECTION FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 18-24 INCHES PLACED AROUND THE INLET STRUCTURE STAKED IN PLACE OR DANDY BAGS.
	OUTLET PROTECTION	RIP RAP CHANNEL / BANK PLACED BELOW DRAINAGE OUTLETS TO REDUCE THE VELOCITY OF FLOW, EROSION, AND STABILIZE GRADES DOWNSTREAM OF OUTLET STRUCTURES.
	CONSTRUCTION ENTRANCE	A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING LOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
	SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
	STONE CHECK DAM	A TEMPORARY STONE BARRIER CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW USED TO REDUCE VELOCITY, FILTER SEDIMENT, AND STABILIZE GRADE.
	TEMPORARY DISTURBED AREA STABILIZATION	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDING ON DISTURBED AREAS.
	PERMANENT SEEDING DISTURBED AREA STABILIZATION	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
	CONCRETE WASHOUT AREA	TEMPORARY ONSITE CONTAINMENT FOR CONCRETE TRUCKS TO WASHOUT PRIOR TO LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR MAY RELOCATE THE WASHOUT AREA PENDING SITE ACTIVITIES. THE SWPPP PERMIT BOX IS TO LOCATED ADJACENT TO WASHOUT AREA.

DRAINAGE LEGEND

DESCRIPTION	EXISTING	PROPOSED
SPOT ELEVATIONS		
DRAINAGE PIPE		
CATCH BASIN		
FINISHED GRADE		
DRAINAGE FLOW ARROW		
DRAINAGE BASIN DIVIDE		
SOIL BORING LOCATION		
STORM DRAIN JUNCTION BOX		
CURB INLET		
DROP INLET		
CONTOUR LINE		
SWALE		
HEADWALL		

NOTES:

- PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- VERTICAL ELEVATIONS ARE BASED UPON ASSUME DATUM, THE TBM IS LOCATED AT THE EXISTING CATCH BASIN WITH TOP ELEVATION 16.1.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDED THE COUNTY WITH A STORMWATER AS-BUILT RECORD DRAWING SIGNED AND SEALED BY A LICENSED LAND SURVEYOR. THE SURVEY SHOULD SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURES, PONDS AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS AND EMERGENCY SPILLWAYS. THE SURVEY SHOULD INCLUDE ALL OF THE STORMWATER IMPROVEMENTS INSTALLED BY THE CONTRACTOR INDICATING THEIR SIZES AND MATERIAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE DROP INLET IN ACCORDANCE WITH SCDOT STANDARD DRAWING NO. 719-105-01, 02 AS SHOWN ON SHEET C-8.



DESIGN DRAWINGS	
CONSTRUCTION DRAWING REV. 1	
NO. 1 05/20/2021	
NO. 2 06/18/2021	

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT:

SCALE: N.T.S.

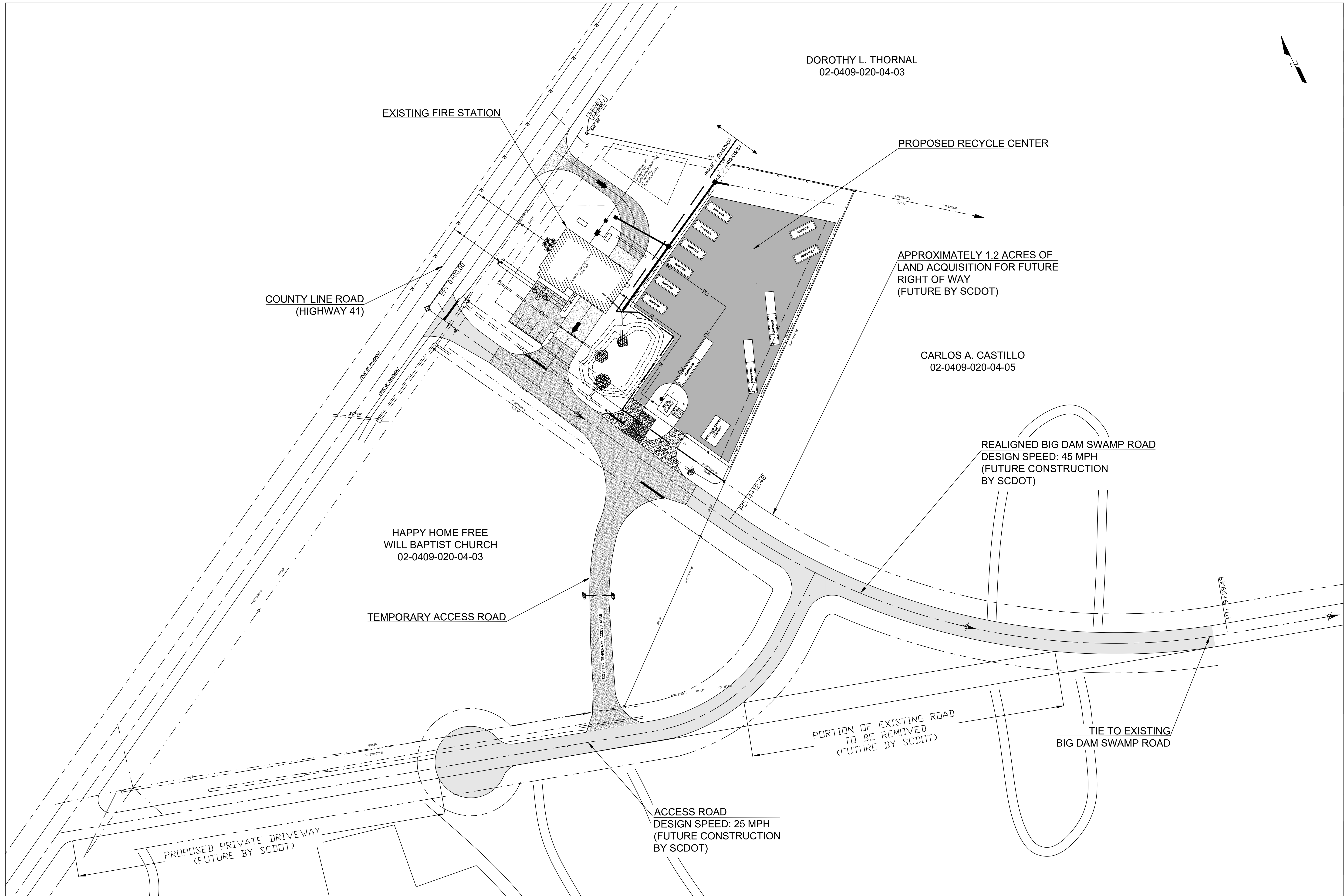
DESIGNED BY: ASB

DRAWN BY: MPM

DATE: 06/18/2021

GENERAL LEGEND

SHEET NO: C-02



DOROTHY L. THORNAL
02-0409-020-04-03

PROPOSED RECYCLE CENTER

APPROXIMATELY 1.2 ACRES OF
LAND ACQUISITION FOR FUTURE
RIGHT OF WAY
(FUTURE BY SCDOT)

CARLOS A. CASTILLO
02-0409-020-04-05

REALIGNED BIG DAM SWAMP ROAD
DESIGN SPEED: 45 MPH
(FUTURE CONSTRUCTION
BY SCDOT)

COUNTY LINE ROAD
(HIGHWAY 41)

HAPPY HOME FREE
WILL BAPTIST CHURCH
02-0409-020-04-03

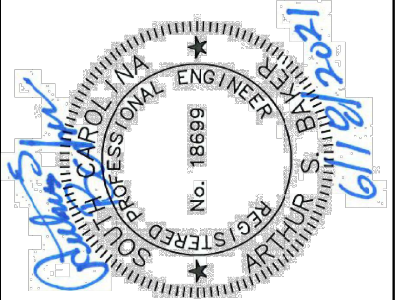
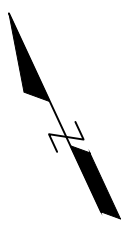
TEMPORARY ACCESS ROAD

ACCESS ROAD
DESIGN SPEED: 25 MPH
(FUTURE CONSTRUCTION
BY SCDOT)

PORCION OF EXISTING ROAD
TO BE REMOVED
(FUTURE BY SCDOT)

TIE TO EXISTING
BIG DAM SWAMP ROAD

PROPOSED PRIVATE DRIVEWAY
(FUTURE BY SCDOT)



NO.	DATE	DESCRIPTION
1	05/20/2021	DESIGN DRAWINGS
2	06/18/2021	CONSTRUCTION DRAWINGS REV. 1

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: H:1"=50'

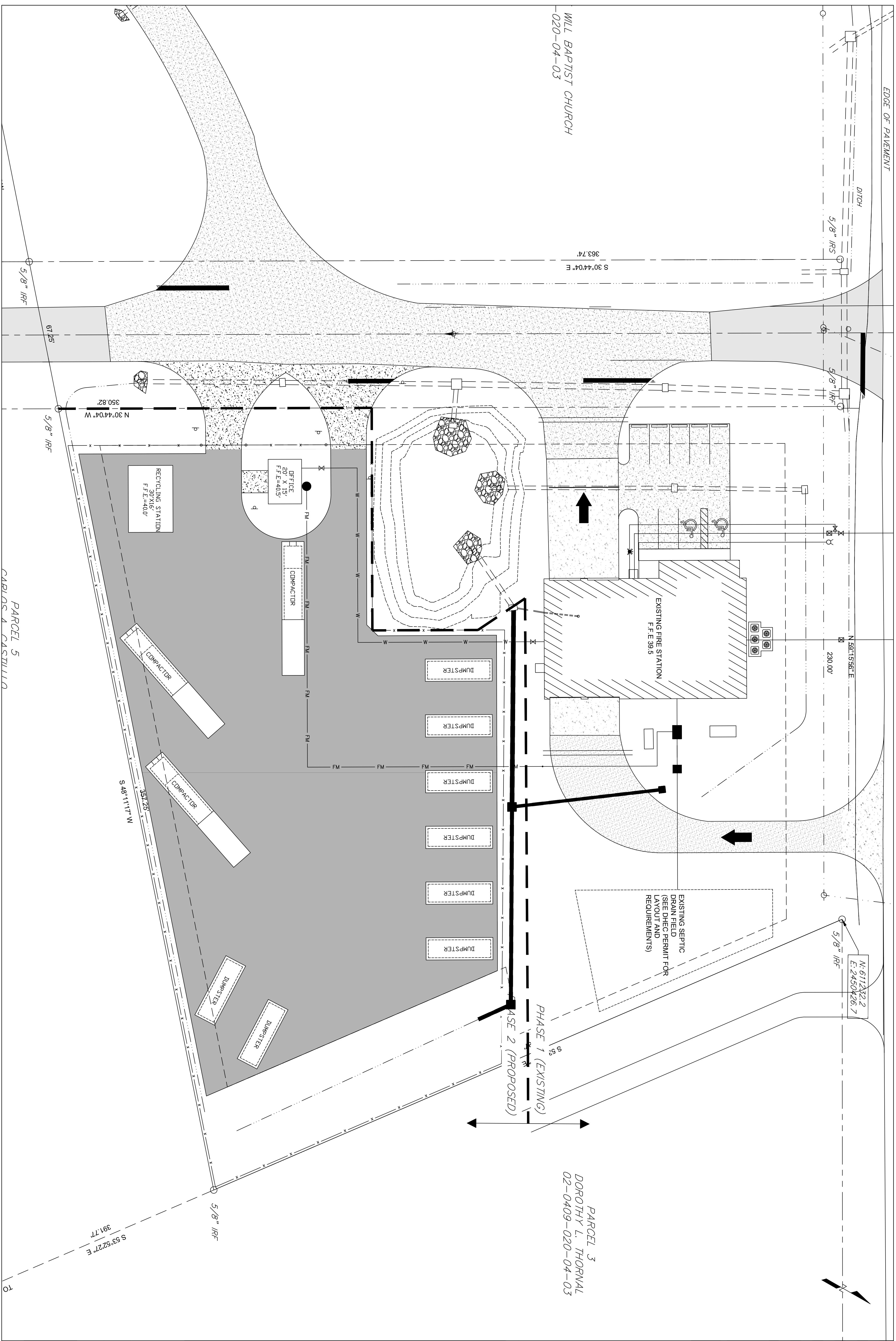
DESIGNED BY: ASB

DRAWN BY: MPM

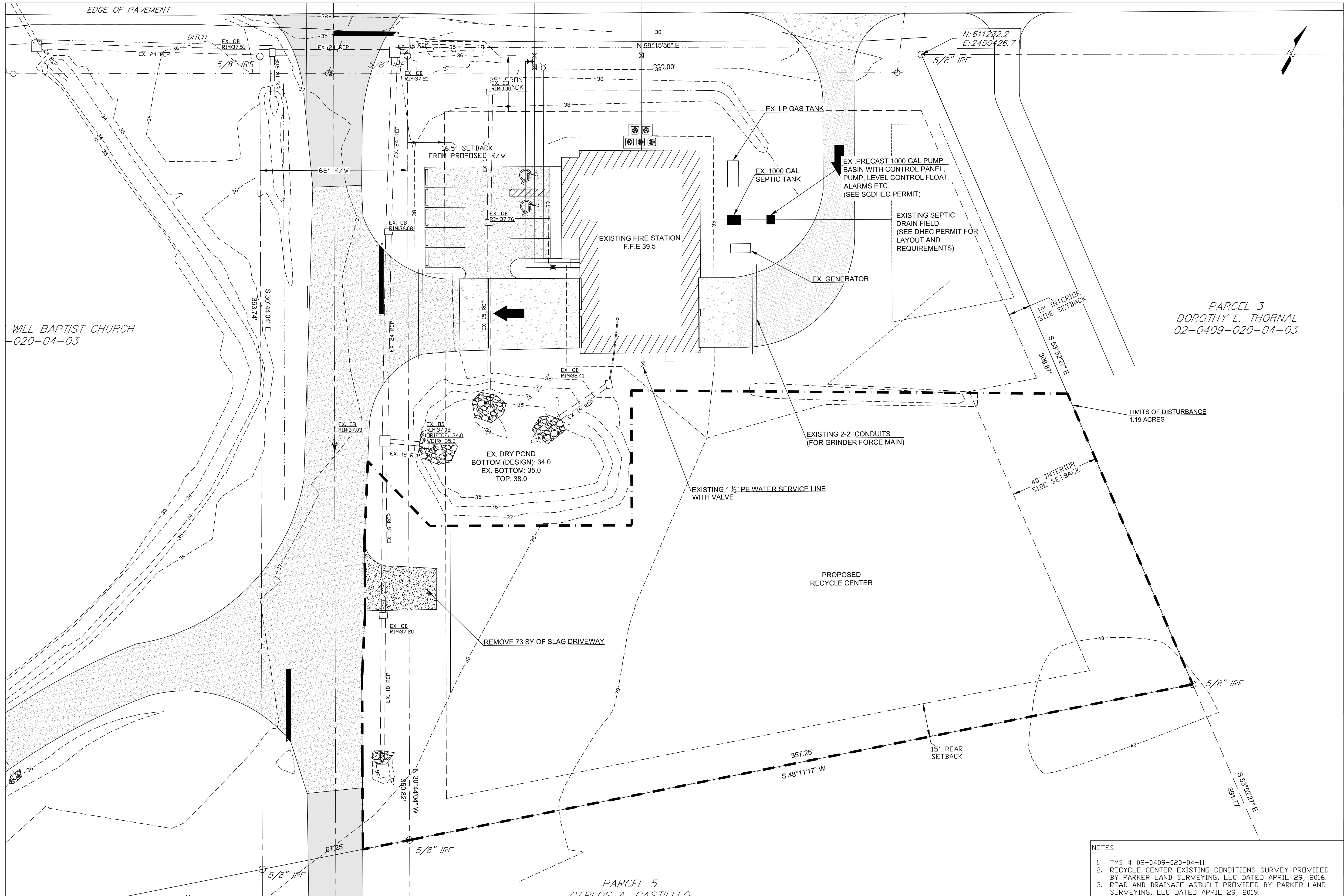
DATE: 06/18/2021

MASTER PLAN

SHEET NO: **C-03**



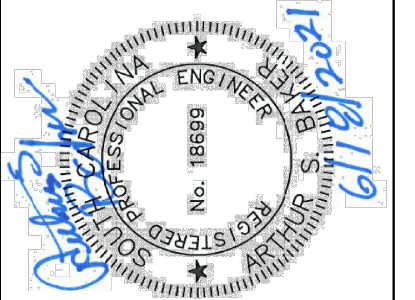
SHEET NO. C-04	BIG DAM SWAMP RECYCLE CENTER GEORGETOWN COUNTY, SOUTH CAROLINA	PROJECT:	SCALE: 1/4"=20' DESIGNED BY: ASB DRAWN BY: MPM DATE: 06/18/2021	DESIGN DRAWINGS CONSTRUCTION DRAWINGS REV. 1			
129 Screen Street, Georgetown, SC 29442 Phone: (843) 545-3524 Fax: (843) 545-3005 Internet: www.georgetowncountysc.org							



WILL BAPTIST CHURCH
020-04-03

PARCEL 3
DOROTHY L. THORNAL
02-0409-020-04-03

PARCEL 5
CARLOS A. CASTILLO



NO.	DATE	DESCRIPTION
1	05/20/2021	DESIGN DRAWINGS
2	06/18/2021	CONSTRUCTION DRAWINGS REV. 1

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT:

SCALE: H:1"=20'

DESIGNED BY: ASB

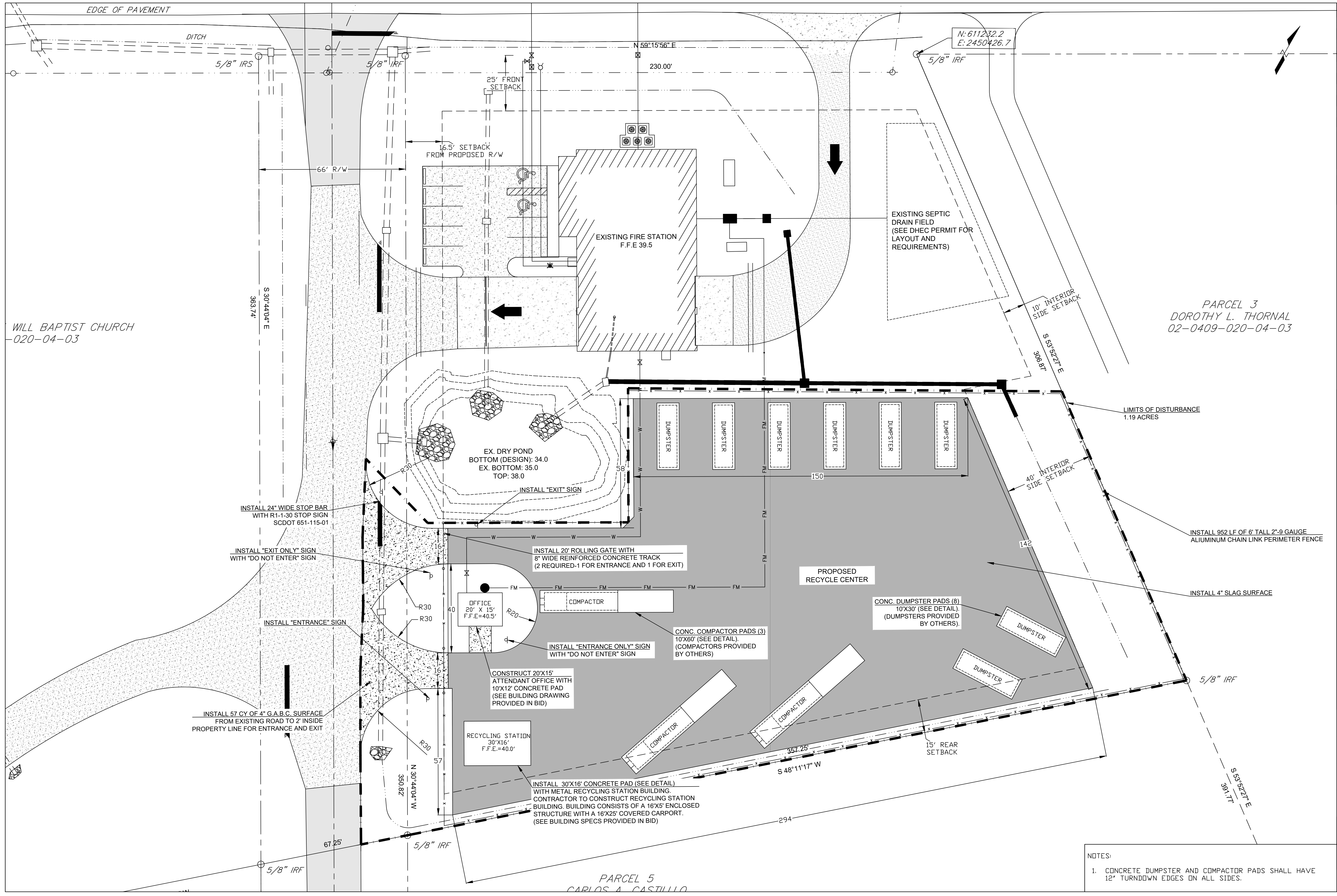
DRAWN BY: MPM

DATE: 06/18/2021

- NOTES:
1. TMS # 02-0409-020-04-11
 2. RECYCLE CENTER EXISTING CONDITIONS SURVEY PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2016.
 3. ROAD AND DRAINAGE ASBUILT PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2019.

EXISTING CONDITIONS AND DEMO PLAN

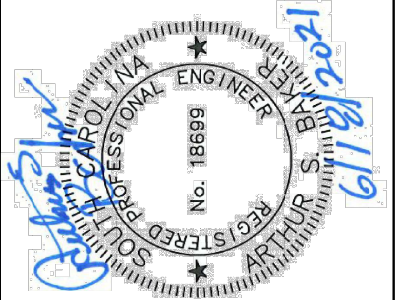
SHEET NO: **C-05**



WILL BAPTIST CHURCH
020-04-03

PARCEL 3
DOROTHY L. THORNAL
02-0409-020-04-03

PARCEL 5
CARLOS A. CASTILLO



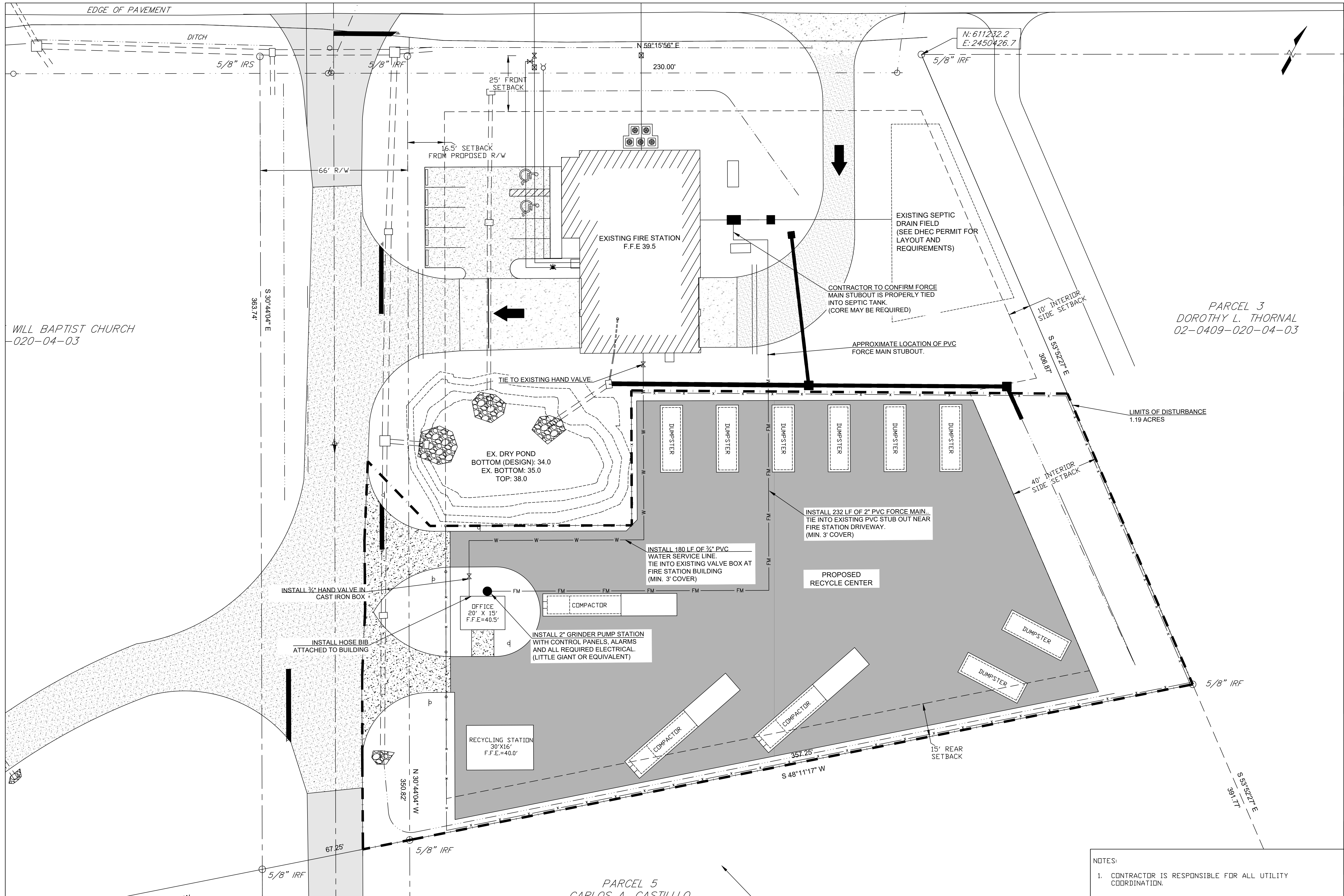
DESIGN DRAWINGS	CONSTRUCTION DRAWINGS REV. 1
NO. 10520/2021	NO. 106/18/2021

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: H:1"=20'
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 06/18/2021

SITE PLAN
SHEET NO: C-06

NOTES:
1. CONCRETE DUMPSTER AND COMPACTOR PADS SHALL HAVE 12" TURNDOWN EDGES ON ALL SIDES.

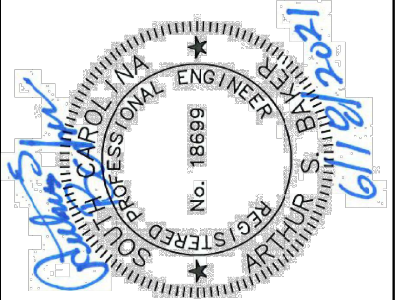


WILL BAPTIST CHURCH
020-04-03

PARCEL 3
DOROTHY L. THORNAL
02-0409-020-04-03

PARCEL 5
CARLOS A. CASTILLO

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION.

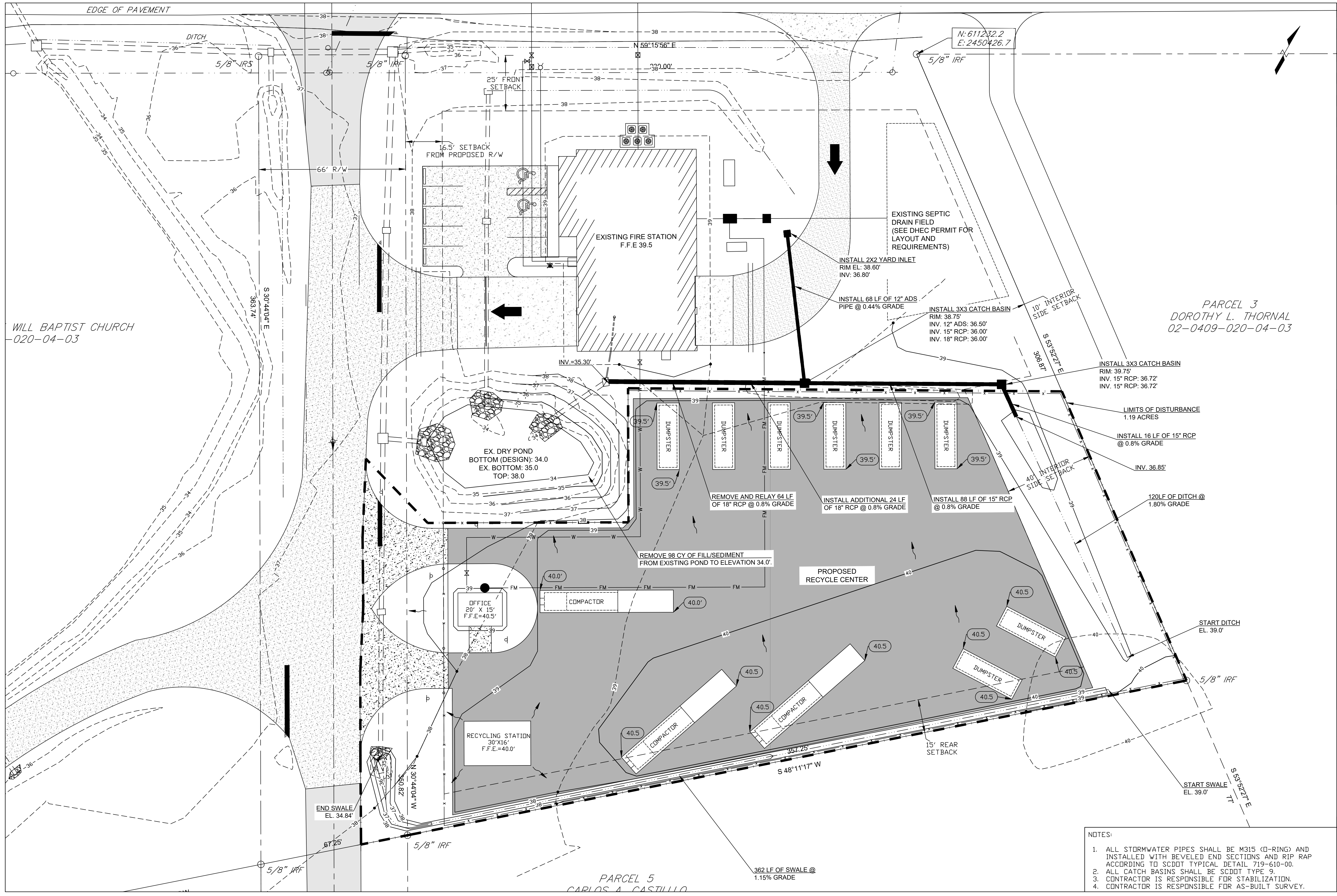


DESIGN DRAWINGS	CONSTRUCTION DRAWINGS REV. 1
NO. 10520/2021	NO. 106/18/2021

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: H:1"=20'
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 06/18/2021

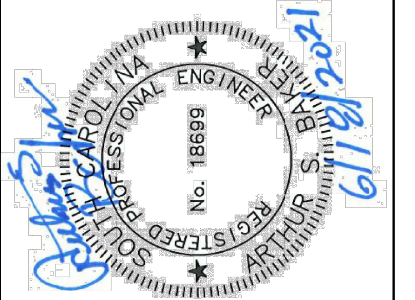
WATER AND SEWER UTILITY PLAN
SHEET NO: C-07



WILL BAPTIST CHURCH
020-04-03

PARCEL 3
DOROTHY L. THORNAL
02-0409-020-04-03

PARCEL 5
CARLOS A. CASTILLO



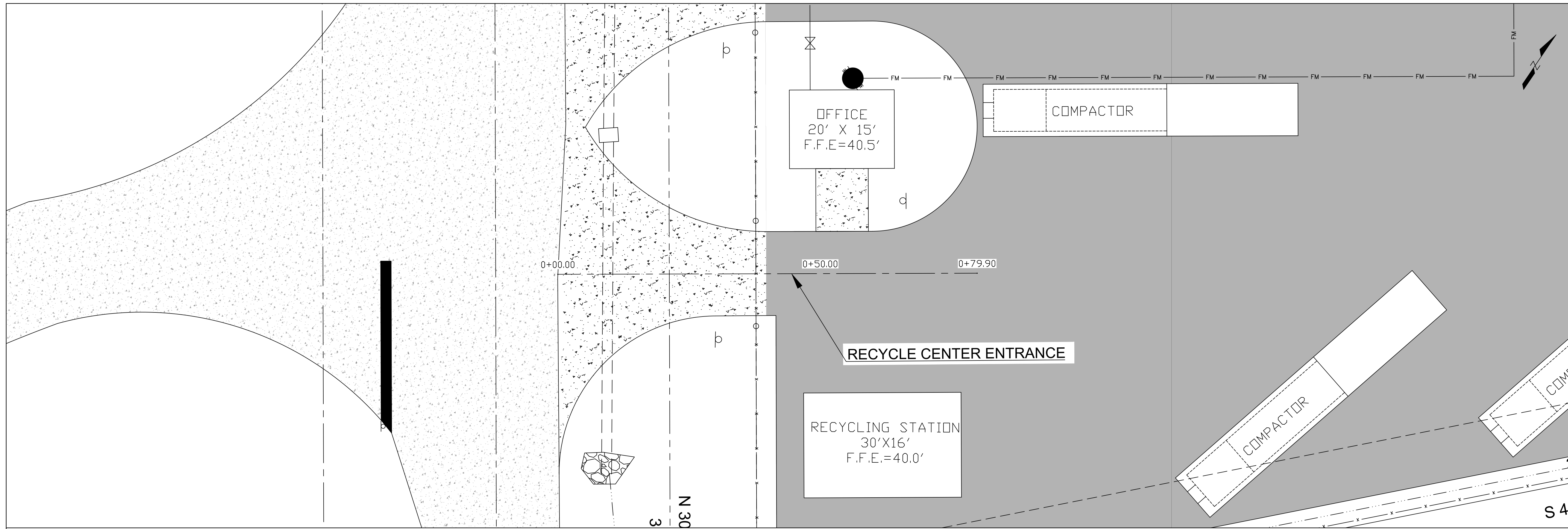
DESIGN DRAWINGS	
CONSTRUCTION DRAWINGS REV. 1	
NO. 105/20/2021	
NO. 106/18/2021	

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

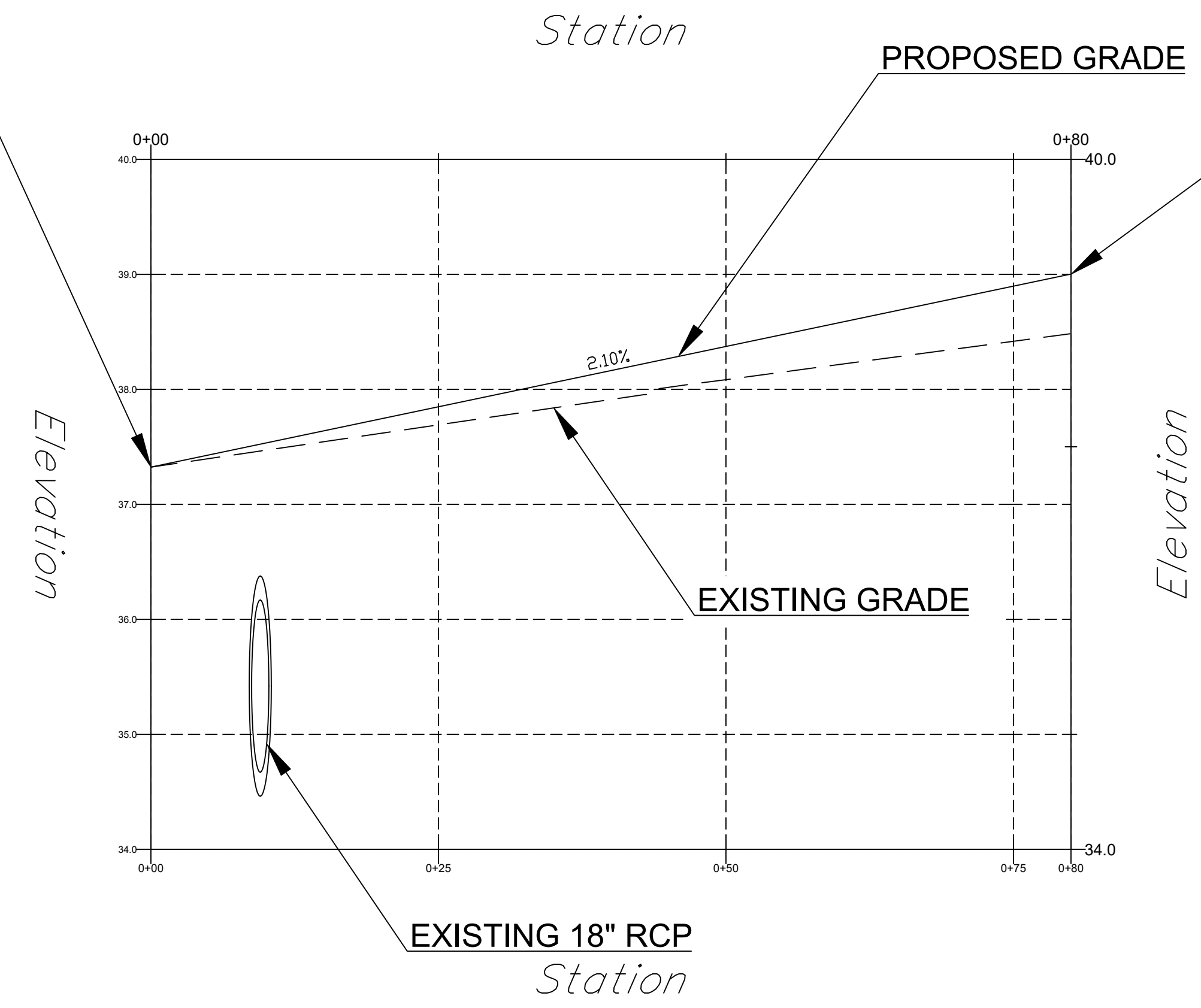
SCALE: H:1"=20'
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 06/18/2021

GRADING AND DRAINAGE PLAN
SHEET NO: C-08

- NOTES:
1. ALL STORMWATER PIPES SHALL BE M315 (D-RING) AND INSTALLED WITH BEVELED END SECTIONS AND RIP RAP ACCORDING TO SCDOT TYPICAL DETAIL 719-610-00.
 2. ALL CATCH BASINS SHALL BE SCDOT TYPE 9.
 3. CONTRACTOR IS RESPONSIBLE FOR STABILIZATION.
 4. CONTRACTOR IS RESPONSIBLE FOR AS-BUILT SURVEY.




START RECYCLE CENTER
ENTRANCE DRIVEWAY
STA 0+00
EL. 37.3




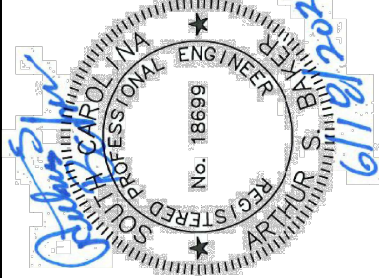
END RECYCLE CENTER
ENTRANCE DRIVEWAY
STA 0+80
EL. 39.0'

EXISTING 18" RCP
Station

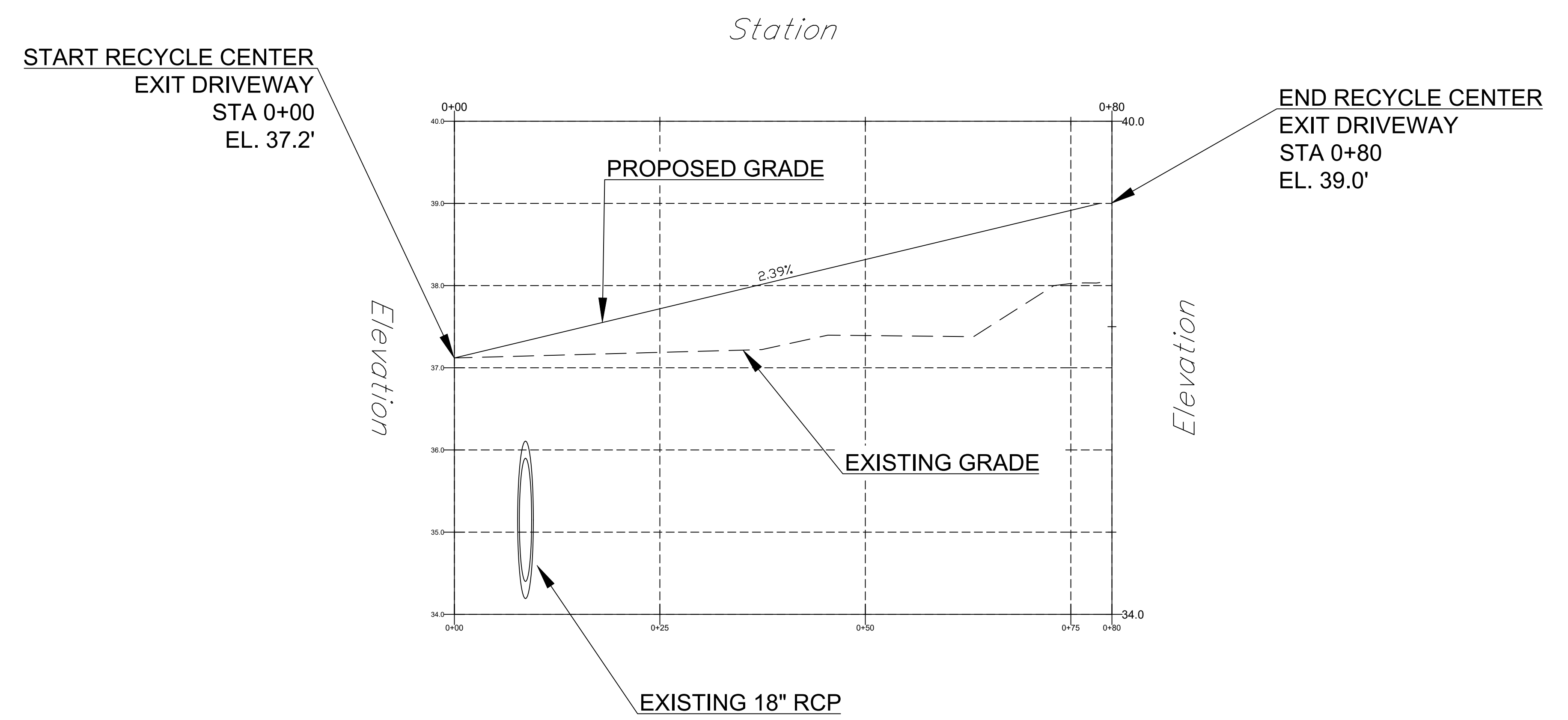
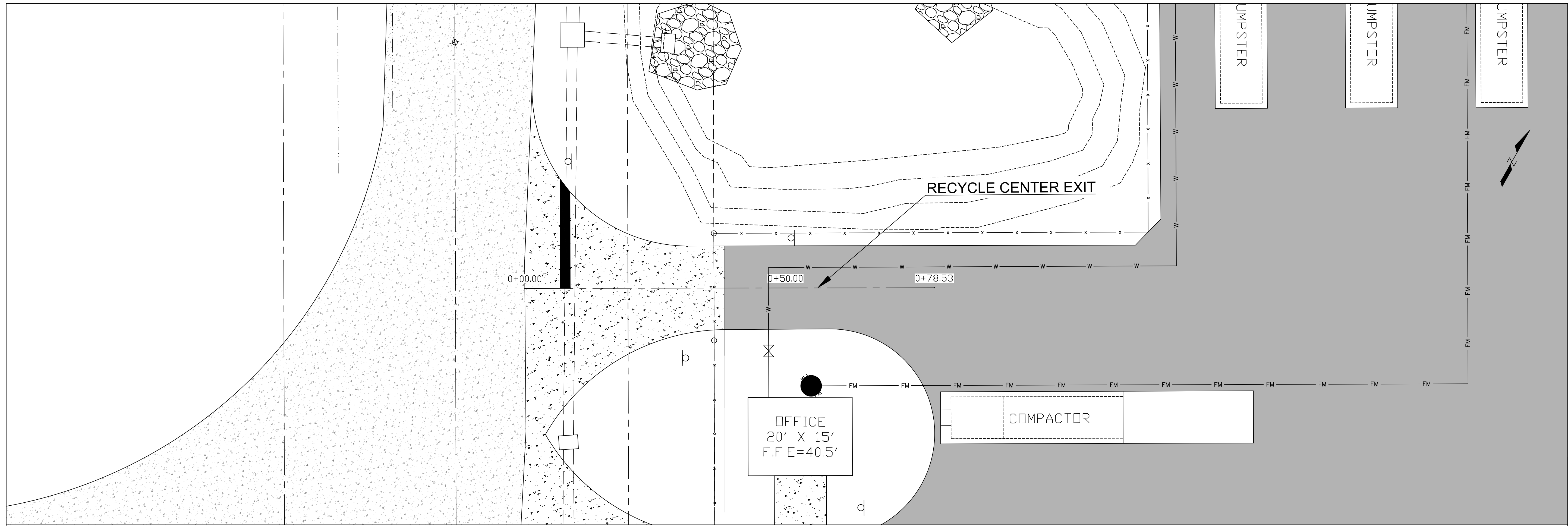
- NOTES:
1. RECYCLE CENTER EXISTING CONDITIONS SURVEY PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2016.
 2. ROAD AND DRAINAGE ASBUILT PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2019.





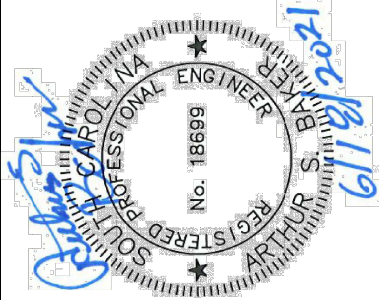
Georgetown County
1300 S. STATE STREET
Phone: (843) 546-5224 Fax: (843) 546-5005
Internet: www.georgetowncountysc.org

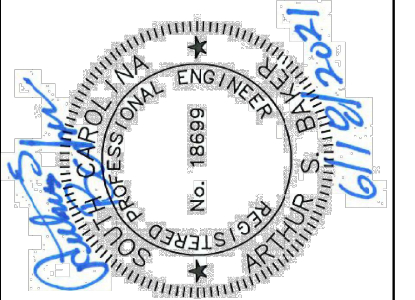
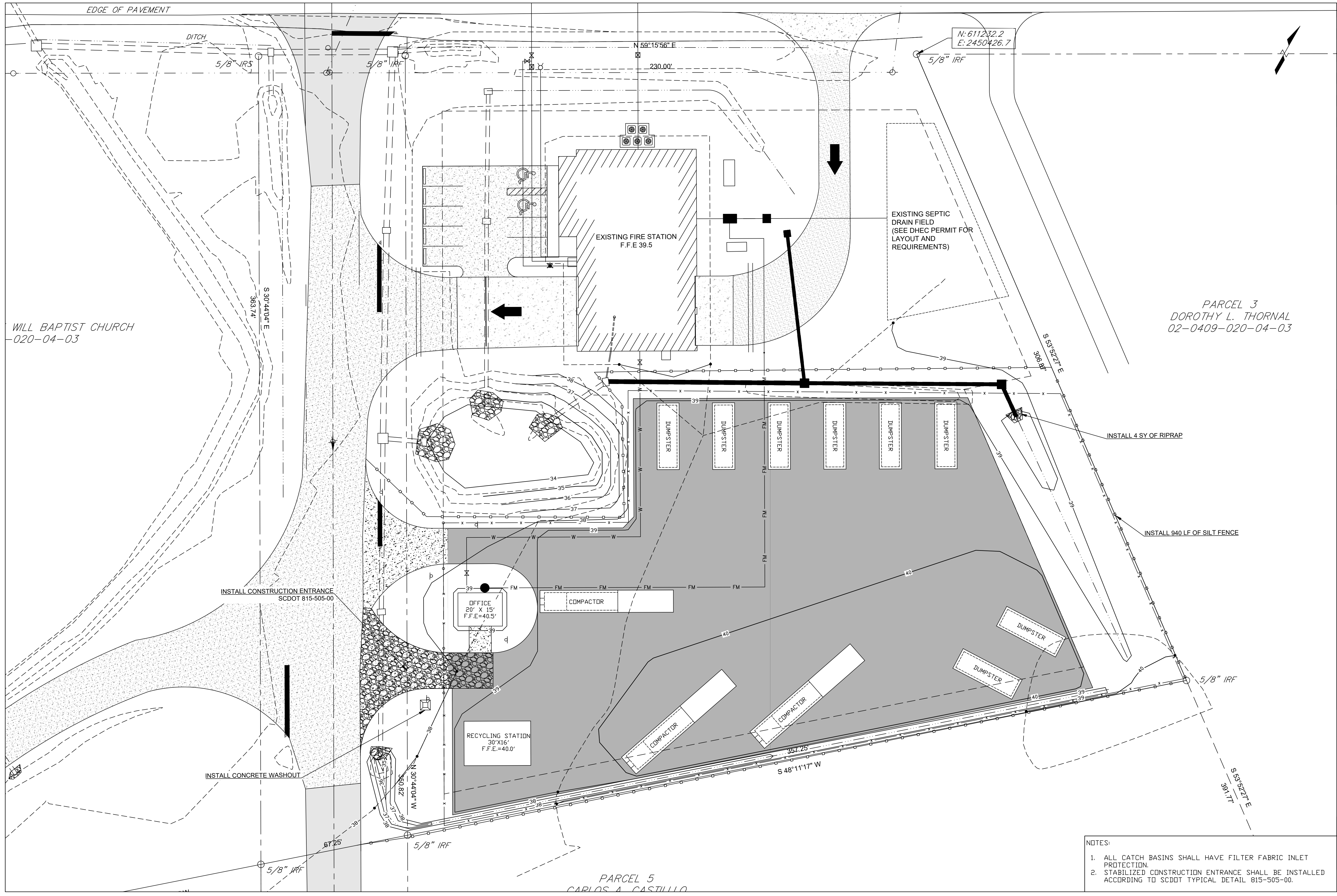



DESIGN DRAWINGS	
CONSTRUCTION DRAWINGS REV. 1	
No. 10520/2021	
No. 106/18/2021	
PROJECT:	BIG DAM SWAMP RECYCLE CENTER GEORGETOWN COUNTY, SOUTH CAROLINA
SCALE:	H:1"=10' V:1"=1'
DESIGNED BY:	ASB
DRAWN BY:	MPM
DATE:	06/18/2021
PROJECT:	RECYCLE CENTER ENTRANCE PROFILE
SHEET NO:	C-09



- NOTES:
1. RECYCLE CENTER EXISTING CONDITIONS SURVEY PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2016.
 2. ROAD AND DRAINAGE ASBUILT PROVIDED BY PARKER LAND SURVEYING, LLC DATED APRIL 29, 2019.

  	
DESIGN DRAWINGS CONSTRUCTION DRAWINGS REV. 1	
NO. 105/20/2021	
NO. 106/18/2021	
BIG DAM SWAMP RECYCLE CENTER GEORGETOWN COUNTY, SOUTH CAROLINA	
PROJECT:	
SCALE:	H:1"=10' V:1"=1'
DESIGNED BY:	ASB
DRAWN BY:	MPM
DATE:	06/18/2021
RECYCLE CENTER EXIT PROFILE	
SHEET NO:	C-10



NO.	DATE	DESCRIPTION
1	05/20/2021	DESIGN DRAWINGS
2	06/18/2021	CONSTRUCTION DRAWINGS REV. 1

BIG DAM SWAMP RECYCLE CENTER
 GEORGETOWN COUNTY, SOUTH CAROLINA

PROJECT:

SCALE: H:1"=20'

DESIGNED BY: ASB

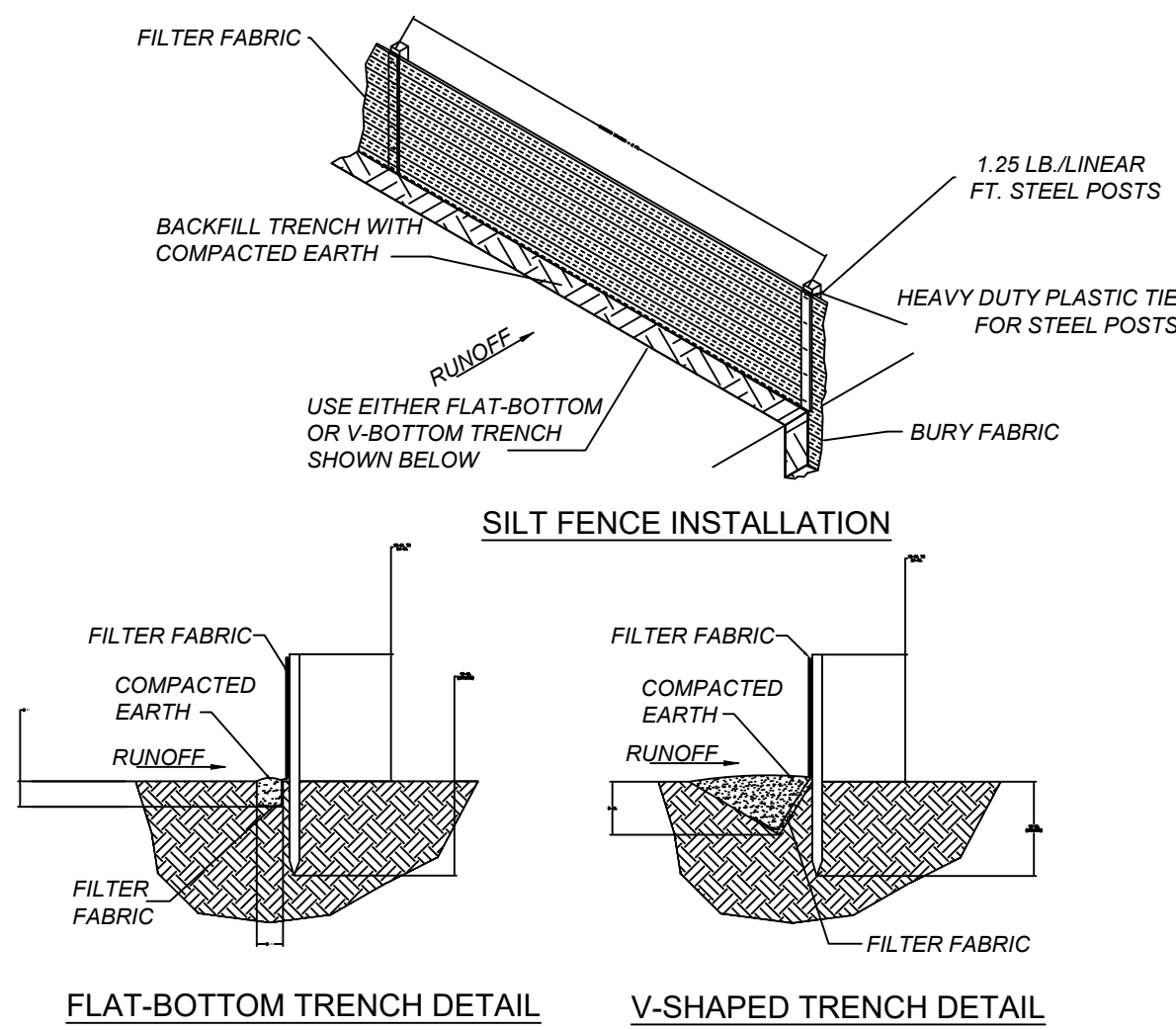
DRAWN BY: MPM

DATE: 06/18/2021

SEDIMENT AND EROSION CONTROL PLAN

SHEET NO: **C-11**

- NOTES:
1. ALL CATCH BASINS SHALL HAVE FILTER FABRIC INLET PROTECTION.
 2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED ACCORDING TO SCDOT TYPICAL DETAIL 815-505-00.

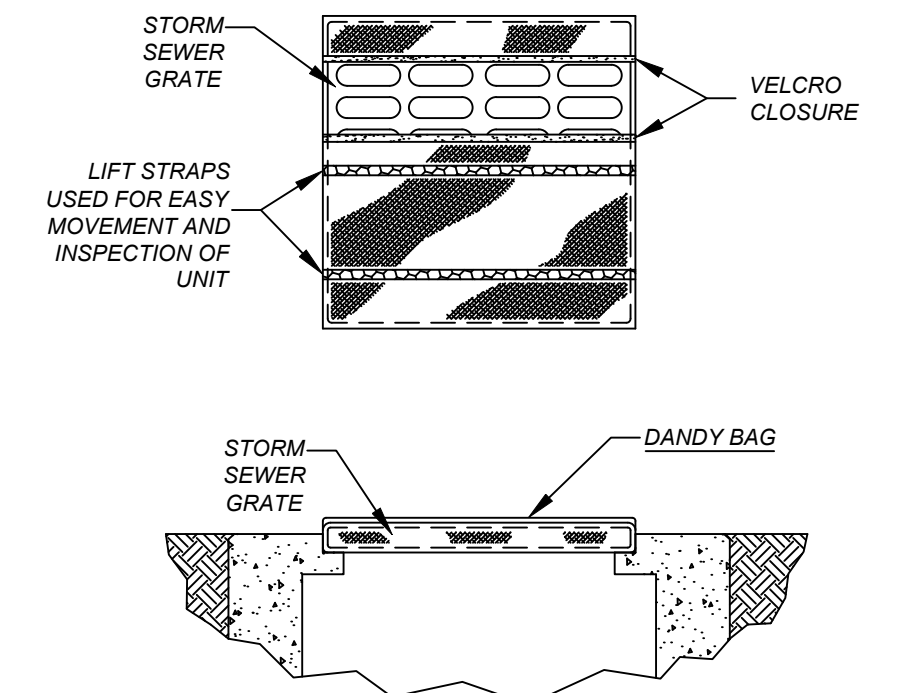


SILT FENCE INSTALLATION

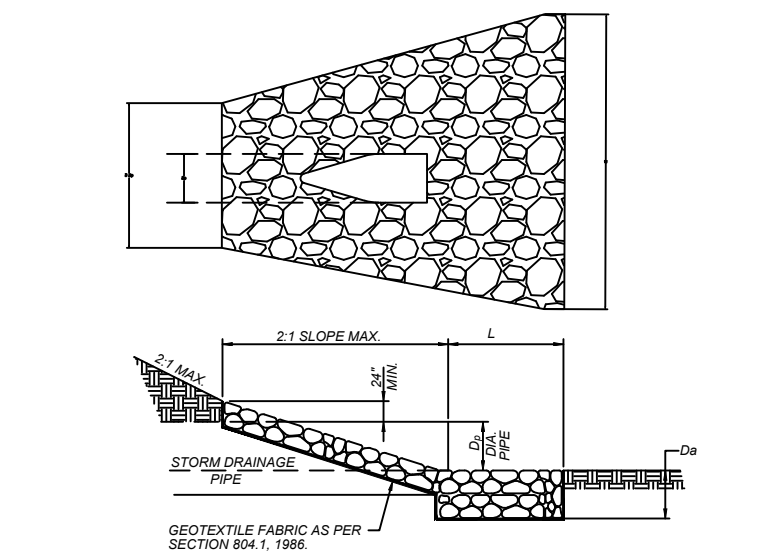
South Carolina Department of Health and Environmental Control
STANDARD SILT FENCE DETAIL
 STANDARD DRAWING NO. SC-03 Page 1, 2 & 3 of 3
 APPROVED BY: [Signature] DATE: [Blank]

SILT FENCE DETAIL
WHEN AND WHERE TO USE IT
 SILT FENCE IS APPLICABLE IN AREAS:
 WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100- FEET, WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V, THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.
DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.
MATERIALS
STEEL POSTS
 USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS: COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
 HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
 WEIGH 1.25 POUNDS PER FOOT (± 8%).
 HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.
 PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.
 USE STEEL POSTS WITH A MINIMUM LENGTH OF 4- FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY. THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
 BE COMPOSED OF MINIMUM 15 GAUGE STEEL. HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.
GEOTEXTILE FILTER FABRIC
FILTER FABRIC IS:
 COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES, FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER. FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.
 USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
INSTALLATION
 EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6- FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1/2-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6- FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
INSPECTION AND MAINTENANCE
 INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/8-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

NOTE: ALL DANDY BAGS CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

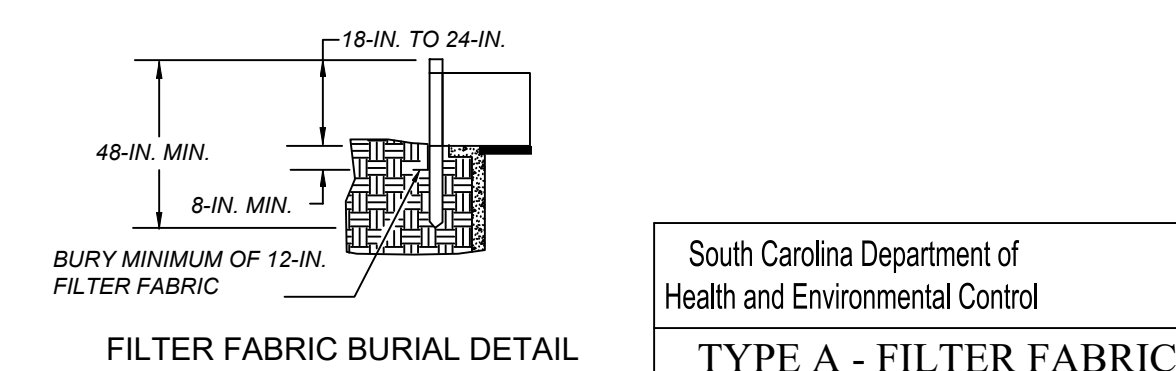
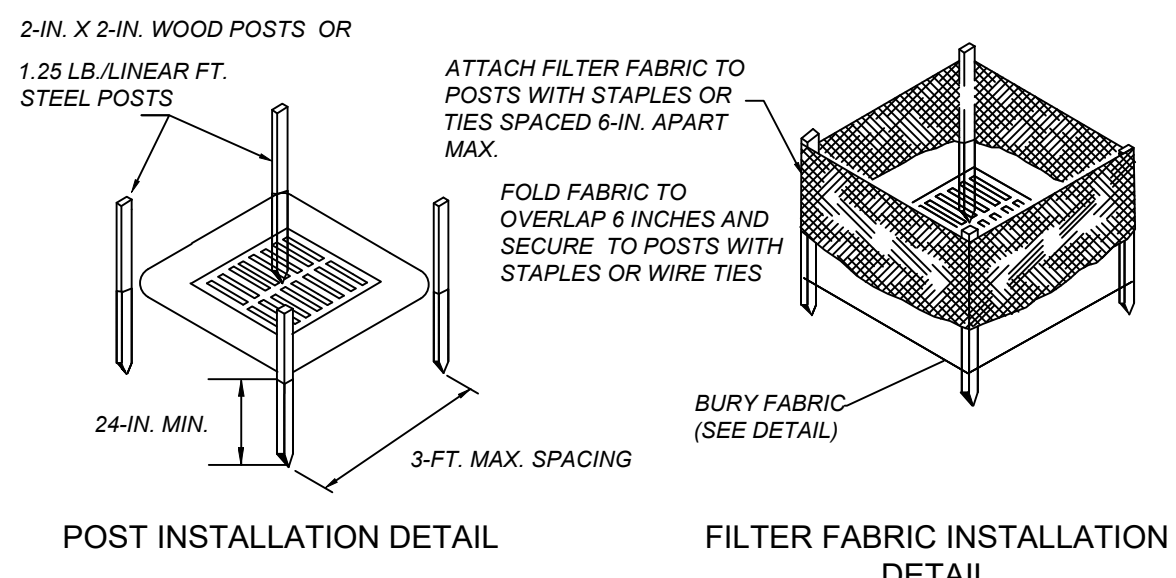


DANDY BAG INLET PROTECTION DETAIL
 SCALE: N.T.S.



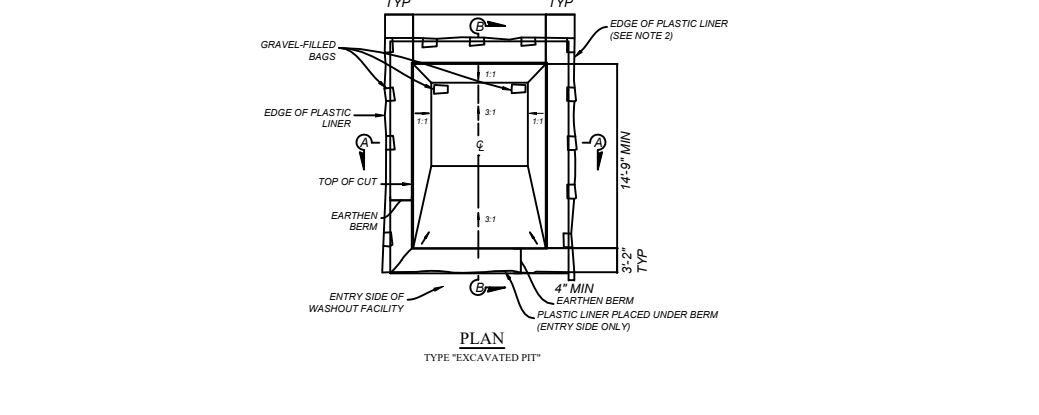
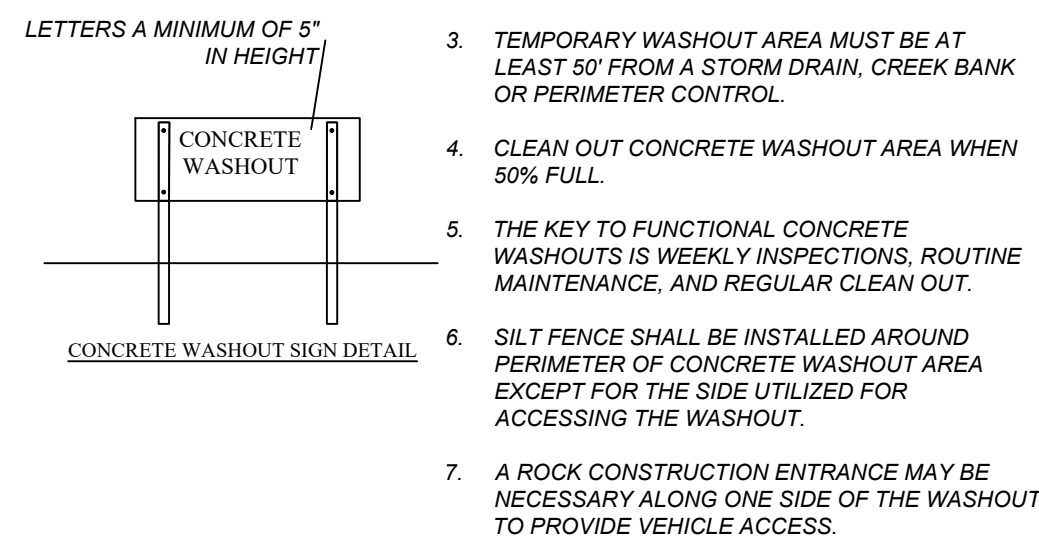
NOTES:
 1. WHEN PIPE EMPTIES INTO A DITCH OR SWALE THE RP-RAP WILL TAKE THE SHAPE OF THE DITCH OR SWALE.
 2. THE LENGTH AND WIDTH OF THE OUTLET RP-RAP SHALL BE DETERMINED FROM THE OUTLET PROTECTION RP-RAP DIMENSIONS TABLE.

OUTLET PROTECTION DETAIL
 SCALE: N.T.S.



South Carolina Department of Health and Environmental Control
TYPE A - FILTER FABRIC INLET PROTECTION
 STANDARD DRAWING NO. SC-07 Page 1 & 2 of 2
 APPROVED BY: [Signature] DATE: AUGUST, 2005

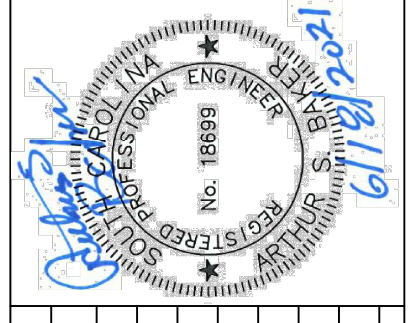
FILTER FABRIC INLET PROTECTION
MATERIALS:
 USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). REFER TO THE SILT FENCE GEOTEXTILE FABRICS APPROVAL SHEET #34.
 USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
 BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
 HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES. WEIGHT 1.25 POUNDS PER FOOT (± 8%).
 BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.
 ATTACH FABRIC TO METAL POSTS WITH HEAVY-DUTY PLASTIC TIES.
INSTALLATION:
 EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.
 EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.
 USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (± 8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.
 ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.
 ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.
INSPECTION AND MAINTENANCE:
 INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/8-INCHES OR MORE OF RAIN IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT IF A SUMP IS USED. SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE MAINTAIN THE POOL AREA. ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.
 STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.



EXCAVATED PIT CONCRETE WASHOUT DETAIL
 SCALE: N.T.S.

STABILIZED CONSTRUCTION ENTRANCE
WHEN AND WHERE TO USE IT
 STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.
IMPORTANT CONSIDERATIONS
 IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
 CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.
INSTALLATION:
 REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN. INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
 THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24- FEET WIDE BY 100- FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS. THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.
INSPECTION AND MAINTENANCE:
 INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/8-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.
 IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
 REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.
 EDGES SHALL BE TAPERED OUT TOWARDS ROAD TO PREVENT TRACKING OF MUD ON THE EDGES.
 AVERAGE STONE DIAMETER OF 2 TO 3-INCHES WITH A 6-INCH MINIMUM DEPTH.
 UNDERLINING NON-WOVEN GEOTEXTILE FABRIC.
 INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
 DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

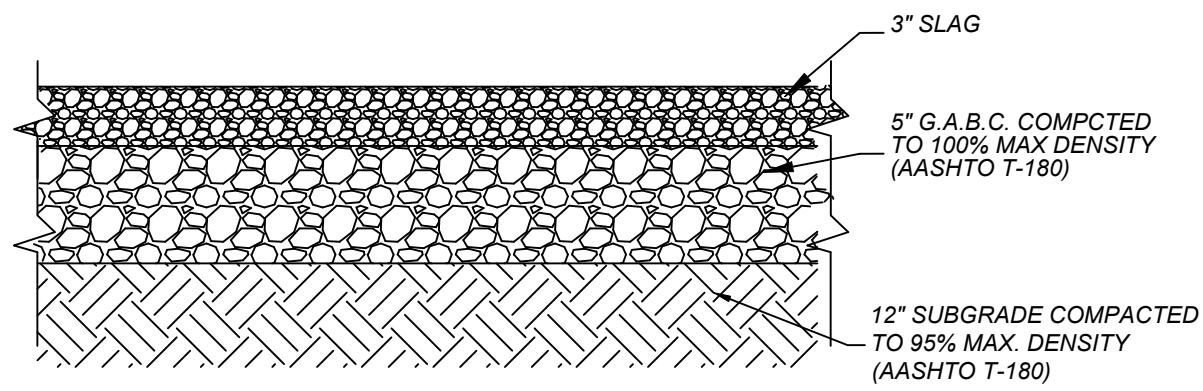
STABILIZED CONSTRUCTION ENTRANCE
 SCALE: N.T.S.



DESIGN DRAWINGS	
CONSTRUCTION DRAWINGS REV. 1	
NO. 1 05/20/2021	
NO. 2 06/18/2021	

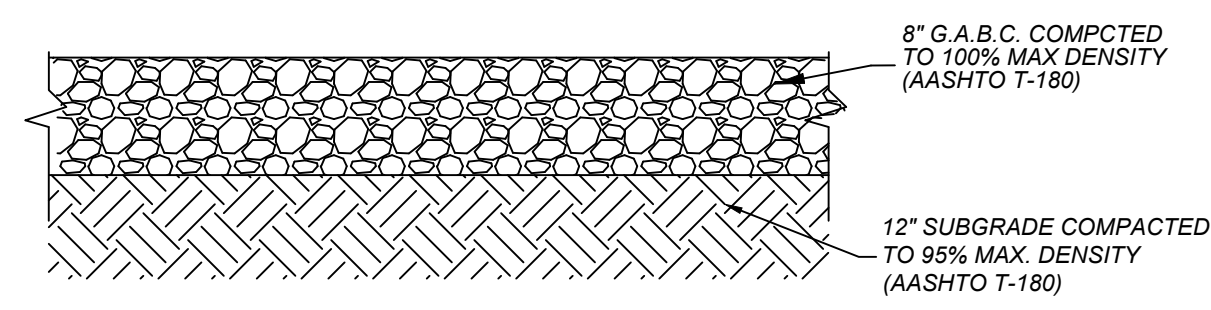
BIG DAM SWAMP RECYCLE CENTER
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: N.T.S.
 DESIGNED BY: ASB
 DRAWN BY: MPM
 DATE: 06/18/2021
 SEDIMENT AND EROSION CONTROL DETAILS
 SHEET NO: C-12



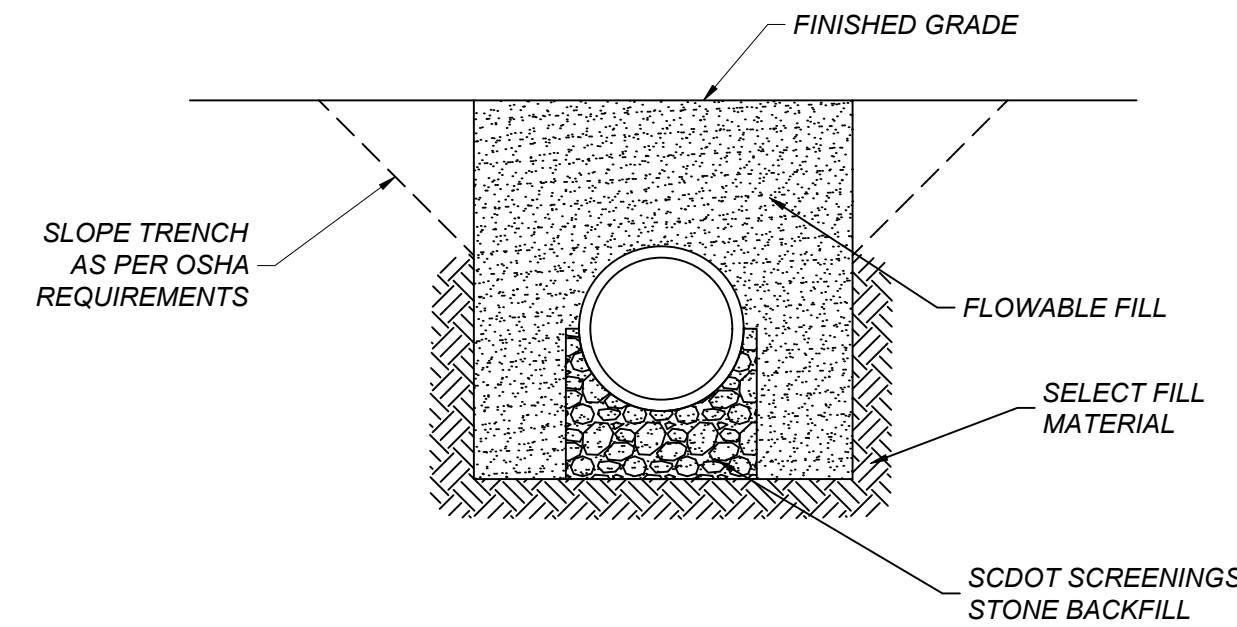
NOTE:
IN-SITU & IMPORTED EARTH FOR USE IN THE FILL AREAS OF THE PAVEMENT SECTION SHALL BE FREE OF ANY ROOTS, ROCK OR OTHER DELETERIOUS MATERIAL AND IN CONFORMANCE WITH AASHTO A-1, A-3 OR A-2-4.

TYPICAL PERVIOUS SLAG SECTION
SCALE: N.T.S.



NOTE:
IN-SITU & IMPORTED EARTH FOR USE IN THE FILL AREAS OF THE PAVEMENT SECTION SHALL BE FREE OF ANY ROOTS, ROCK OR OTHER DELETERIOUS MATERIAL AND IN CONFORMANCE WITH AASHTO A-1, A-3 OR A-2-4.

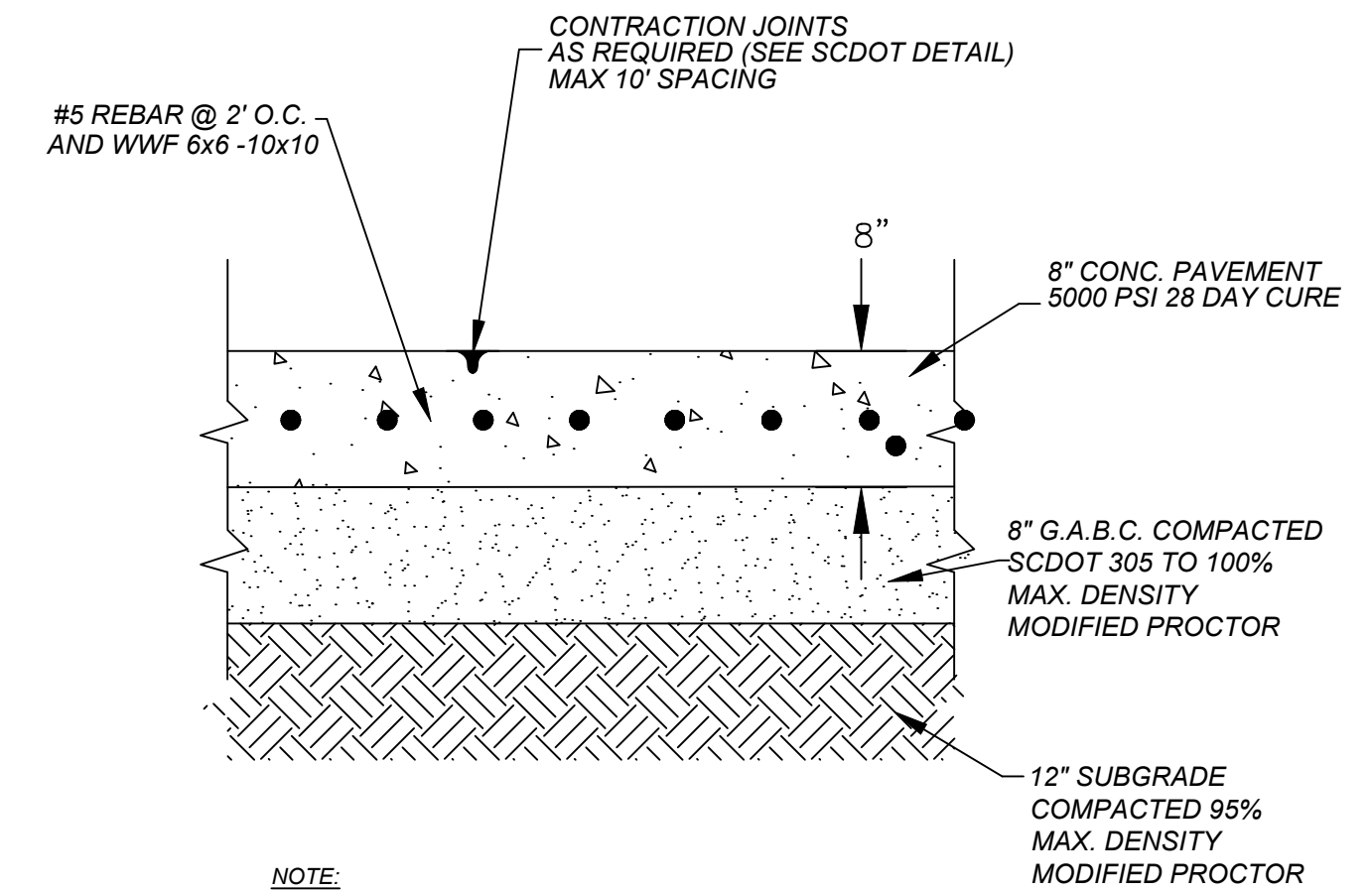
TYPICAL PERVIOUS F.L.B.C. SECTION
SCALE: N.T.S.



NOTES:

1. FLOWABLE FILL SHALL BE EXCAVATABLE CONCRETE AND SHALL ENCASE CROSS PIPE THROUGHOUT ENTIRE LENGTH OF OPEN CUT. FLOWABLE FILL SHALL EXTENDED A MINIMUM OF 6" (MINIMUM) ON EVERY SIDE AND BOTTOM OF THE CROSS PIPE.
2. SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS OR ORGANICS AND PLACED IN 6" OR 8" LOOSE LIFTS AND COMPACTED TO MIN. 95% OF THE SOILS STANDARD PROCTOR, AND 98% WHEN UNDER PAVEMENT.

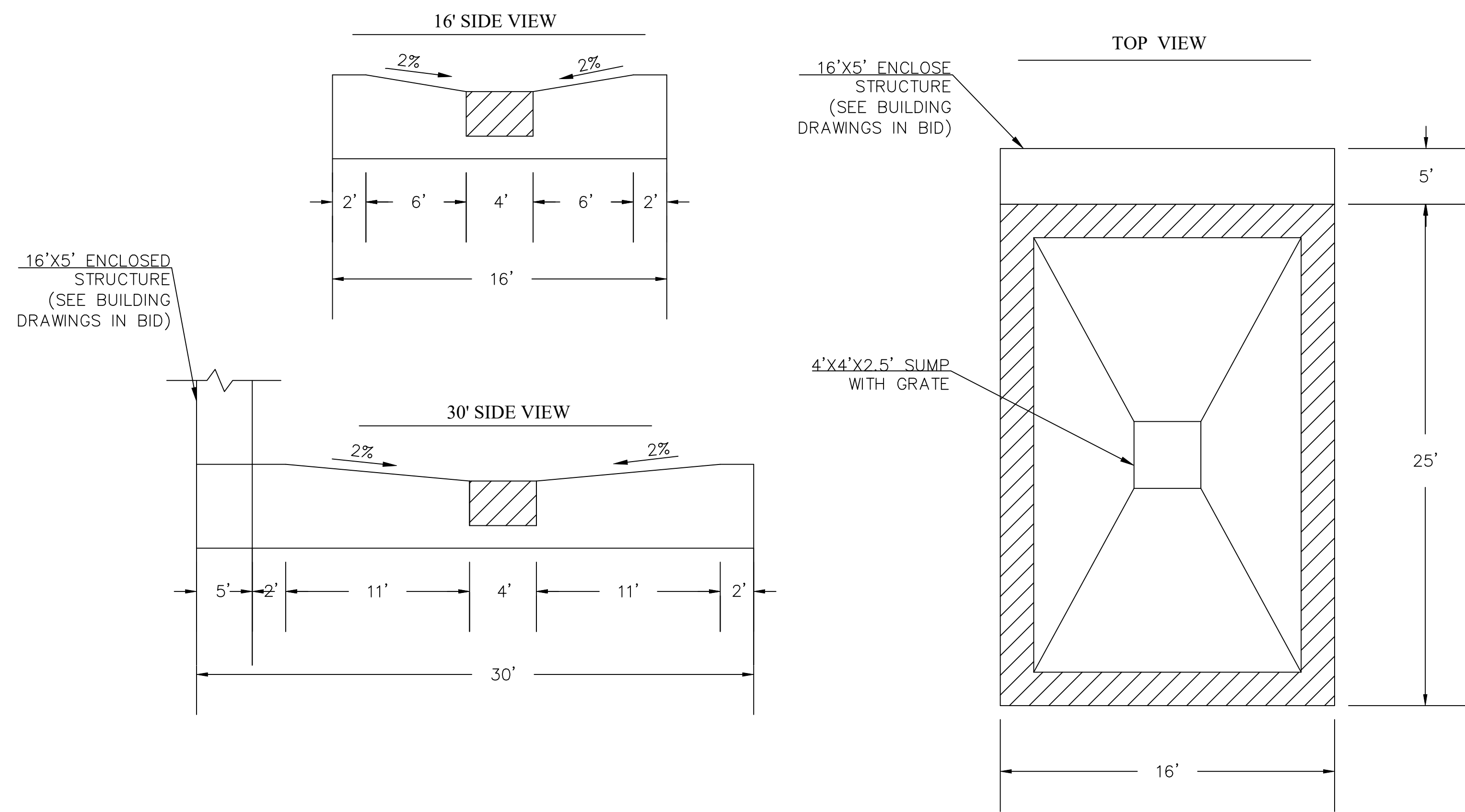
TYPICAL OPEN CUT SECTION
SCALE: N.T.S.



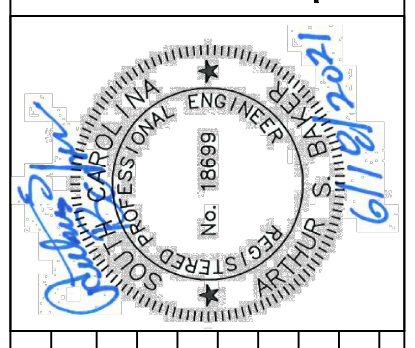
NOTE:

1. IN-SITU & IMPORTED EARTH FOR USE IN THE FILL AREAS OF THE PAVEMENT SECTION SHALL BE FREE OF ANY ROOTS, ROCK OR OTHER DELETERIOUS MATERIAL AND SHALL BE PROOF ROLLED PRIOR TO BASE PLACEMENT.
2. THE AVERAGE DENSITY OF 92% OF THE REFERENCE MAXIMUM THEORETICAL DENSITY ACCORDING TO ASTM D-2941 BUT NOT LESS THAN 90% NOR GREATER THAN 96% FOR ANY INDIVIDUAL TEST.
2. MAINTAIN MINIMUM 2" COVER OVER ALL REINFORCING STEEL.

DUMPSTER/COMPACTOR CONCRETE PAD SECTION
SCALE: N.T.S.



RECYCLE STATION DETAIL
SCALE: N.T.S.



DESIGN DRAWINGS	
CONSTRUCTION DRAWINGS REV. 1	
NO. 1 05/20/2021	
NO. 2 06/18/2021	

BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: N.T.S.
DESIGNED BY: ASB
DRAWN BY: MPM
DATE: 06/18/2021

TYPICALDETAILS
SHEET NO: C-13

Georgetown County
129 S. Green Street, Georgetown, SC 29542
Phone: (803) 545-5624 Fax: (803) 545-5005
Internet: www.georgetowncounty.org

WORK ZONE TRAFFIC CONTROL ENGINEER
 SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 NO. 2442
 W. E. McCORMACK
 6/11/2018

DESIGN DRAWINGS
 CONSTRUCTION DRAWINGS REV. 1
 STANDARD DRAWING
 FLAGGING OPERATIONS
 TWO-LANE, TWO-WAY ROADWAYS INTERSECTIONS
 610-005-00
 SHEET NO. C-14

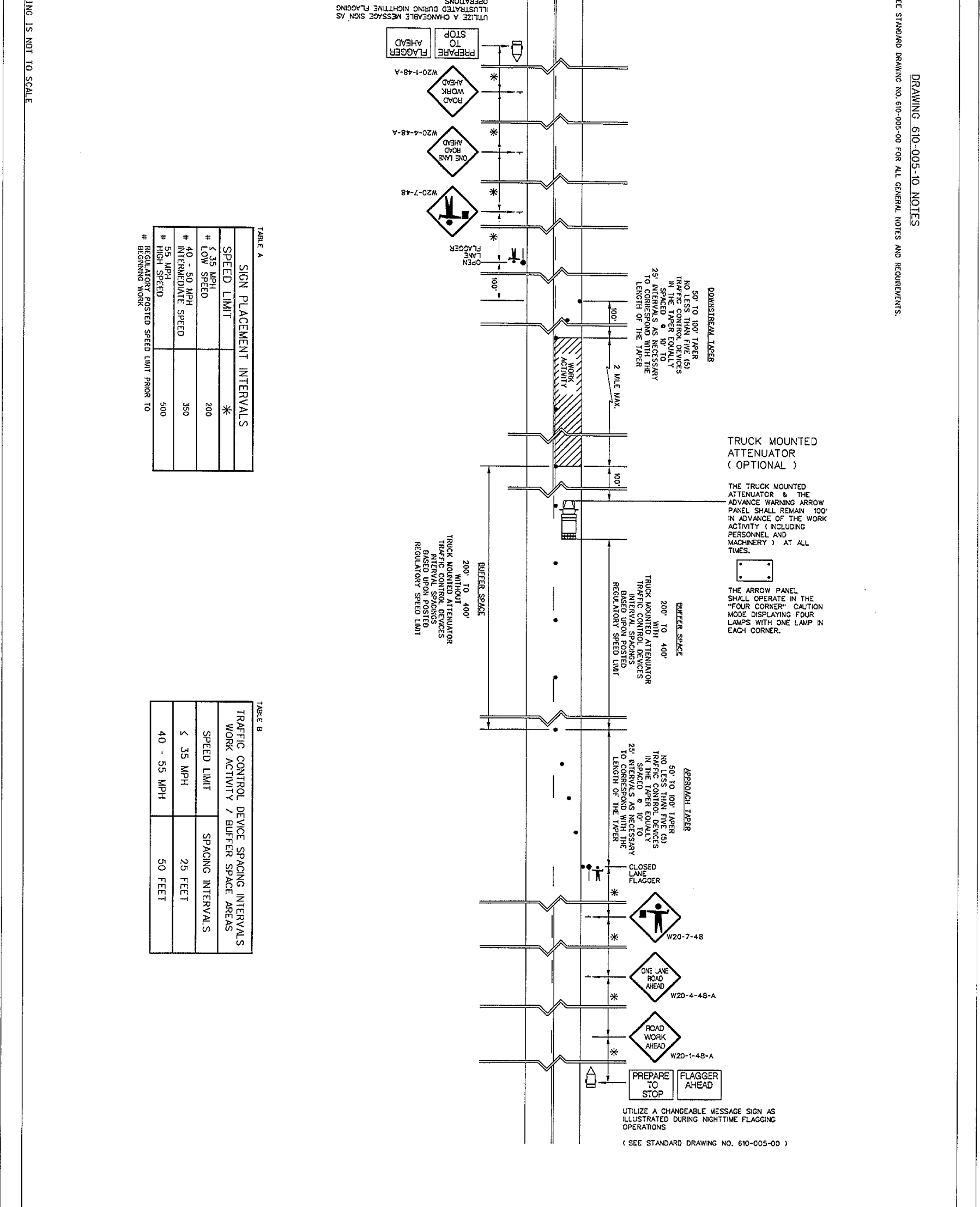
GENERAL NOTES:
 1. ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT REVISIONS UNLESS OTHERWISE NOTED.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL AGENCIES.
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SOUTH CAROLINA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 4. ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (DOT) PRIOR TO USE.
 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND ROADWAYS AT ALL TIMES.
 6. ALL FLAGGING OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 205.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL OPERATIONS.
 8. ALL FLAGGING OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 205.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL OPERATIONS.
 10. ALL FLAGGING OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SOUTH CAROLINA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 205.

TABLE A: SIGN PLACEMENT INTERVALS

TRAFFIC CONTROL DEVICE	SPEED LIMIT	SPACING INTERVALS
STOP	< 35 MPH	300 FEET
STOP	35 - 45 MPH	300 FEET
STOP	45 - 55 MPH	300 FEET
STOP	> 55 MPH	300 FEET

TABLE B: TRAFFIC CONTROL DEVICE SPACING INTERVALS

SPEED LIMIT	SPACING INTERVALS
< 35 MPH	20 FEET
35 - 45 MPH	20 FEET
45 - 55 MPH	20 FEET
> 55 MPH	20 FEET



DESIGN DRAWINGS
 CONSTRUCTION DRAWINGS REV. 1
 STANDARD DRAWING
 FLAGGING OPERATIONS
 TWO-LANE, TWO-WAY ROADWAYS INTERSECTIONS
 610-005-00
 SHEET NO. C-14

W. E. McCORMACK
 REGISTERED PROFESSIONAL ENGINEER
 NO. 2442
 7/27/15



Georgetown County
 129 Screen Street, Georgetown, SC 29442
 Phone: (843) 545-3524 Fax: (843) 545-3005
 Internet: www.georgetowncountysc.org

WORK ZONE TRAFFIC CONTROL ENGINEER
 SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 NO. 2384
 M. A. W. WESTER
 2-11-08

DESIGN DRAWINGS
 CONSTRUCTION DRAWINGS REV. 1
 STANDARD DRAWING
 FLAGGING OPERATIONS
 TYPE III REFLECTIVE SHEETING
 651-115-01
 SHEET NO. C-14

SOUTH CAROLINA STANDARD SIGNS
 ALL OTHER SIGNS ARE AVAILABLE FROM THE DIRECTOR OF TRAFFIC ENGINEERING.

REGULATORY SIGNS (TYPE III REFLECTIVE SHEETING)

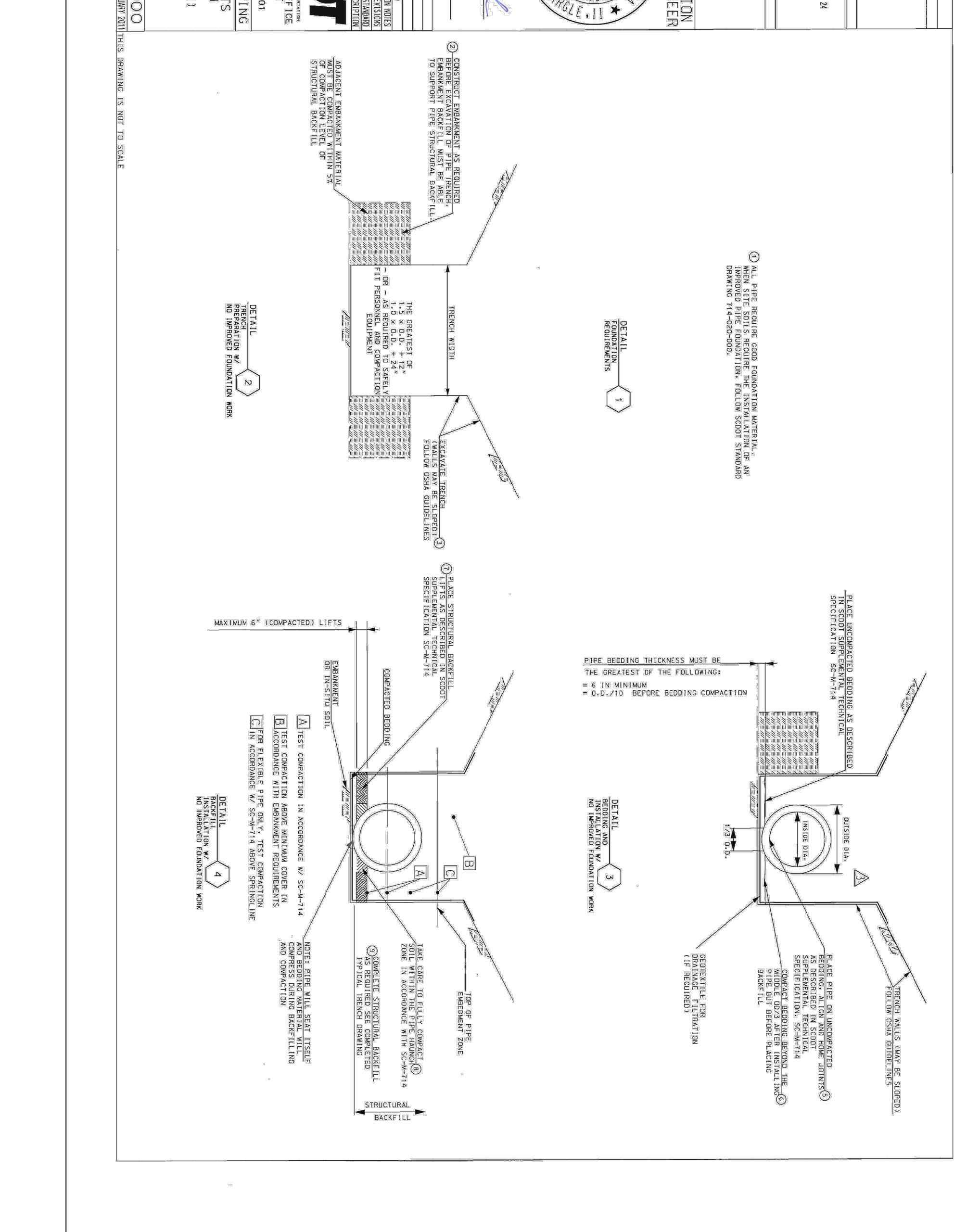
DESCRIPTION	SIZE	NUMBER	SIZE	NUMBER
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12

REGULATORY SIGNS (TYPE III REFLECTIVE SHEETING)

DESCRIPTION	SIZE	NUMBER	SIZE	NUMBER
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12
REGULATORY SIGN (TYPE III REFLECTIVE SHEETING)	8' x 4'	12	8' x 4'	12

WORK ZONE TRAFFIC CONTROL ENGINEER
 SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 NO. 8858
 M. A. W. WESTER
 6/11/2018

DESIGN DRAWINGS
 CONSTRUCTION DRAWINGS REV. 1
 STANDARD DRAWING
 PRECONSTRUCTION SUPPORT ENGINEER
 PIPE TRENCH PREPARATION
 714-005-00
 SHEET NO. C-14



PROJECT: BIG DAM SWAMP RECYCLE CENTER
 GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: N.T.S.
 DESIGNED BY: ASB
 DRAWN BY: MPM
 DATE: 08/18/2021

SHEET NO: C-14

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
INLET FILTERS
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
LOW FLOW INLET FILTERS
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
GRASSED CHANNELS AND SWALES
STANDARD DRAWING

NOTES:

1. GRASSED CHANNELS AND SWALES WILL BE DESIGNED IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
2. 1 FOOT OF FREEBOARD SHALL BE PROVIDED ABOVE THE 10-YEAR STORM IF SITE CONDITIONS ALLOW.
3. V-SHAPED DITCHES SHALL NOT BE USED AS GRASSED CHANNELS AND SWALES FOR WATER QUALITY.
4. THE STANDARD APPLICATION FOR WATER QUALITY APPLIES ONLY TO THE LAST 100 FEET OF GRASSED CHANNELS AND SWALES PRIOR TO OUTFALL AND DOES NOT INCLUDE THE ENTIRE CONVEYANCE.
5. PAY ITEMS FOR PERMANENT AND TEMPORARY SEEDING FOR CHANNEL AND SWALE STABILIZATION ARE PROVIDED IN SUPPLEMENTAL SPECIFICATION SC-M-910-4 OR MOST RECENT VERSION.
6. THE PAY ITEM SHALL BE: 2031000 UNCLASSIFIED EXCAVATION.....CY

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
GRASSED CHANNELS AND SWALES
STANDARD DRAWING

NOTES:

1. GRASSED CHANNELS AND SWALES WILL BE DESIGNED IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
2. 1 FOOT OF FREEBOARD SHALL BE PROVIDED ABOVE THE 10-YEAR STORM IF SITE CONDITIONS ALLOW.
3. V-SHAPED DITCHES SHALL NOT BE USED AS GRASSED CHANNELS AND SWALES FOR WATER QUALITY.
4. THE STANDARD APPLICATION FOR WATER QUALITY APPLIES ONLY TO THE LAST 100 FEET OF GRASSED CHANNELS AND SWALES PRIOR TO OUTFALL AND DOES NOT INCLUDE THE ENTIRE CONVEYANCE.
5. PAY ITEMS FOR PERMANENT AND TEMPORARY SEEDING FOR CHANNEL AND SWALE STABILIZATION ARE PROVIDED IN SUPPLEMENTAL SPECIFICATION SC-M-910-4 OR MOST RECENT VERSION.
6. THE PAY ITEM SHALL BE: 2031000 UNCLASSIFIED EXCAVATION.....CY

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
SEDIMENT TUBE
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
SEDIMENT TUBE
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
SEDIMENT TUBE
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

REFERENCES

INSTALLATION

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

SCDOT
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES M. KENDRICK
No. 21242
11/18/2016

DESIGN STANDARDS OFFICE
355 PINE STREET
COLUMBIA, SC 29201

TYPE A
SEDIMENT TUBE
STANDARD DRAWING

NOTES:

1. THE FABRIC SHALL BE INSTALLED WITH THE FLOW DIRECTION AND CONSTRUCTION OF THE SCDOT WATER QUALITY MANUAL.
2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.
3. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE CLOGGED OR IF IT IS FOUND TO BE DAMAGED.
4. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.
5. THE FABRIC SHOULD BE REPLACED IF IT IS FOUND TO BE DAMAGED OR IF IT IS FOUND TO BE CLOGGED.

DESIGN DRAWINGS

No. 1	05/20/2021	DESIGN DRAWINGS
No. 2	06/18/2021	CONSTRUCTION DRAWINGS REV. 1

APWA
ACCREDITED AGENCY
No. 18899

Georgetown County
129 Screven Street, Georgetown, SC 29442
Phone: (843) 545-3524 Fax: (843) 545-3005
Internet: www.georgetowncountysc.org

Georgetown County

PROJECT:
BIG DAM SWAMP RECYCLE CENTER
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: N.T.S.

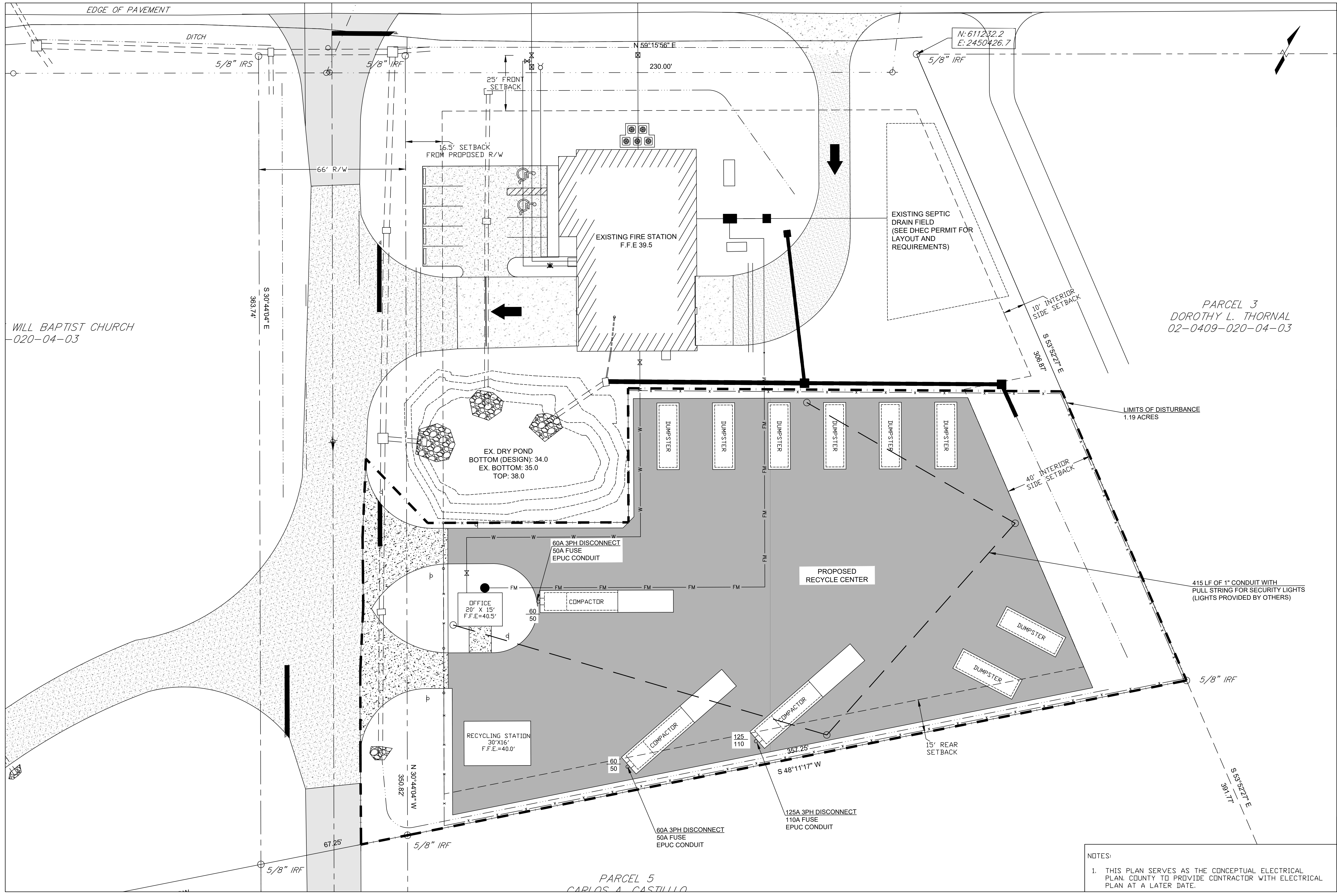
DESIGNED BY: ASB

DRAWN BY: MPM

DATE: 06/18/2021

SHEET NO: C-16

SCDOT DETAILS




 GEORGETOWN COUNTY
 135 S. STATE ST. GEORGETOWN, SC 29529
 Phone: (843) 546-5224 Fax: (843) 546-5005
 Internet: www.georgetowncounty.org


DESIGN DRAWINGS	CONSTRUCTION DRAWINGS REV. 1
NO. 105/20/2021	NO. 106/18/2021

BIG DAM SWAMP RECYCLE CENTER
 GEORGETOWN COUNTY, SOUTH CAROLINA
 PROJECT:

SCALE: H:1"=20'
 DESIGNED BY: ASB
 DRAWN BY: MPM
 DATE: 06/18/2021
 ELECTRIC UTILITY (CONCEPT)

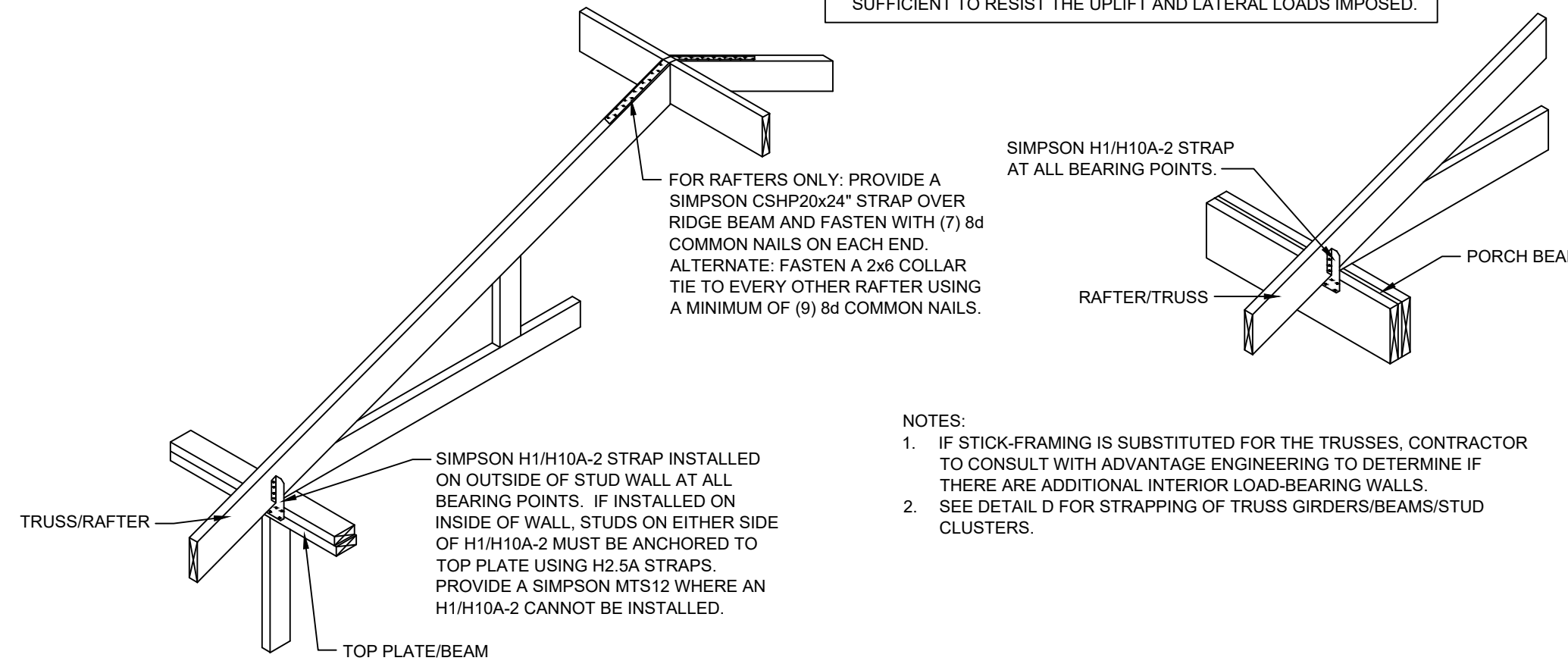
SHEET NO: **E-01**

NOTES:
 1. THIS PLAN SERVES AS THE CONCEPTUAL ELECTRICAL PLAN. COUNTY TO PROVIDE CONTRACTOR WITH ELECTRICAL PLAN AT A LATER DATE.

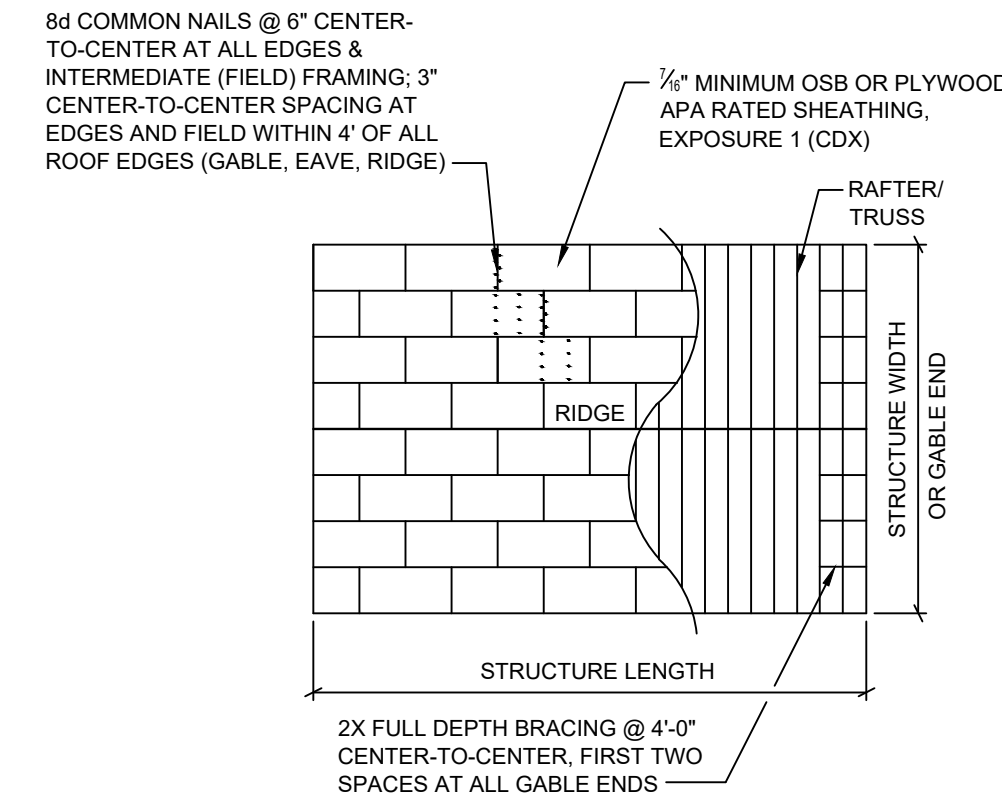
DESIGN VALUES (ASCE 7-16, 2018 IBC)

LIVE LOADS:
 ROOF = 20 PSF
 ATTIC = 10 PSF
 FLOOR = 50 PSF
 PORCH FLOOR = 75 PSF
SNOW LOAD: 5 PSF
 ROOF SNOW LOAD: 5 PSF
 EXPOSURE FACTOR: $C_e=1.0$
 IMPORTANCE FACTOR: $I_s=1.0$
 THERMAL FACTOR: $C_t=1.0$
WIND LOADS:
 ULTIMATE WIND SPEED: 145 MPH
 IBC NOMINAL WIND SPEED: 112 MPH
 BUILDING STRUCTURE: ENCLOSED, LOW-RISE
 IMPORTANCE FACTOR: $I_w=1.0$
 RISK CATEGORY: II
 WIND EXPOSURE: B
 INTERNAL PRESSURE COEFFICIENT: $+/- 0.18$
 DP RATING FOR COMPONENTS & CLADDING: DP50 (DP30 PER ASD)
SEISMIC LOADS:
 IMPORTANCE FACTOR: $I_e=1.0$
 RISK CATEGORY: II
 SITE LOCATION: GEORGETOWN COUNTY, SC
 SITE CLASS: D
 SPECTRAL RESPONSE ACCELERATIONS: $S_s=0.59, S_1=0.19$
 SPECTRAL RESPONSE COEFFICIENTS: $S_{ds}=0.52, S_{d1}=0.28$
 SEISMIC DESIGN CATEGORY: D2
 SEISMIC FORCE RESISTING SYSTEM:
 BEARING WALL SYSTEM USING LIGHT FRAMED WALLS WITH SHEAR PANELS
 DESIGN BASE SHEAR: 1,183 LBS
 SEISMIC RESPONSE COEFFICIENT: $C_s=0.08$
 RESPONSE MODIFICATION FACTOR: $R=6.5$
 ANALYSIS PROCEDURE: SIMPLIFIED ANALYSIS PROCEDURE
FLOOD LOADS:
 FEMA FLOOD HAZARD ZONE: NA
 LOWEST FINISHED FLOOR ELEVATION: NA
RAIN LOADS:
 RAIN INTENSITY: 4.25 in/hr
GEOTECHNICAL:
 SOIL BEARING CAPACITY: 2000 PSF ASSUMED

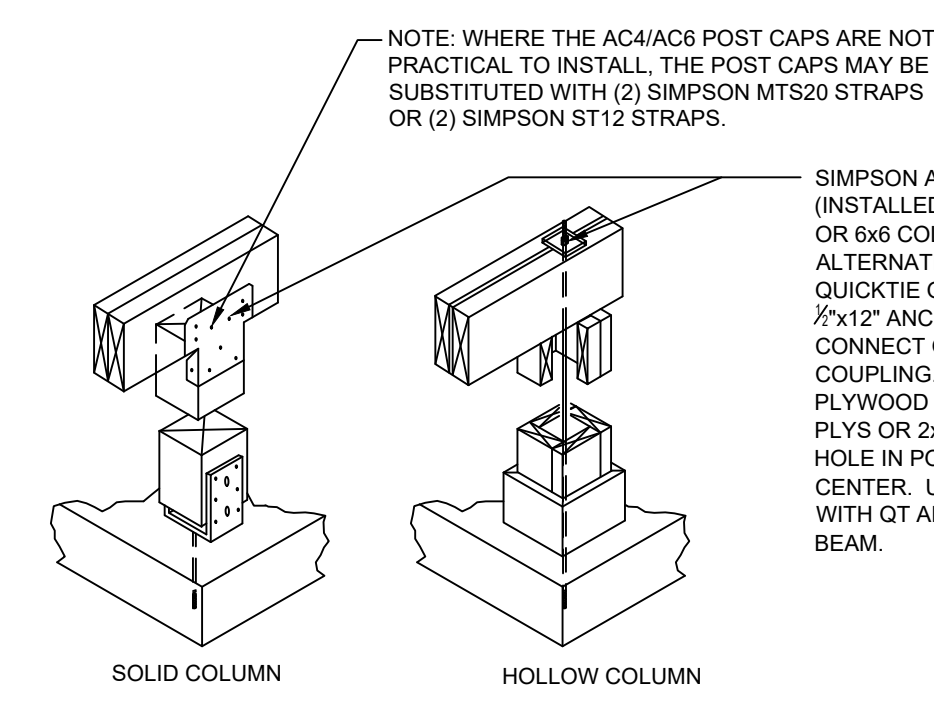
TRUSS LAYOUTS AND REACTION REPORTS HAVE NOT BEEN REVIEWED BY ADVANTAGE ENGINEERING, LLC OR THE ENGINEER OF RECORD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE TRUSS LAYOUTS AND REACTION REPORTS AND TO ENSURE THE SPECIFIED CONNECTORS SHOWN ON THE DESIGN DRAWINGS ARE SUFFICIENT TO RESIST THE UPLIFT AND LATERAL LOADS IMPOSED.



DETAIL A
 RAFTER/TRUSS CONNECTION



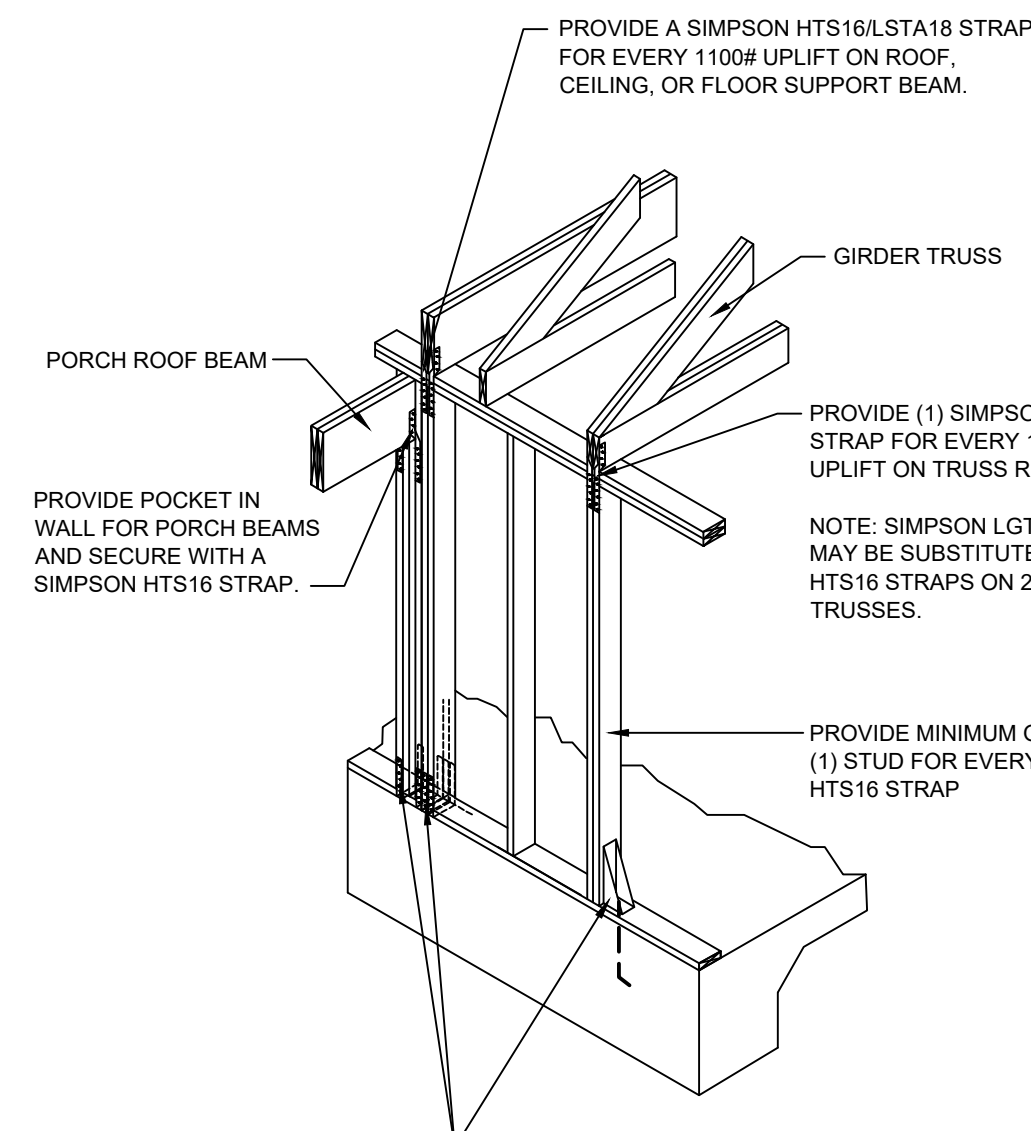
DETAIL B
 ROOF SHEATHING



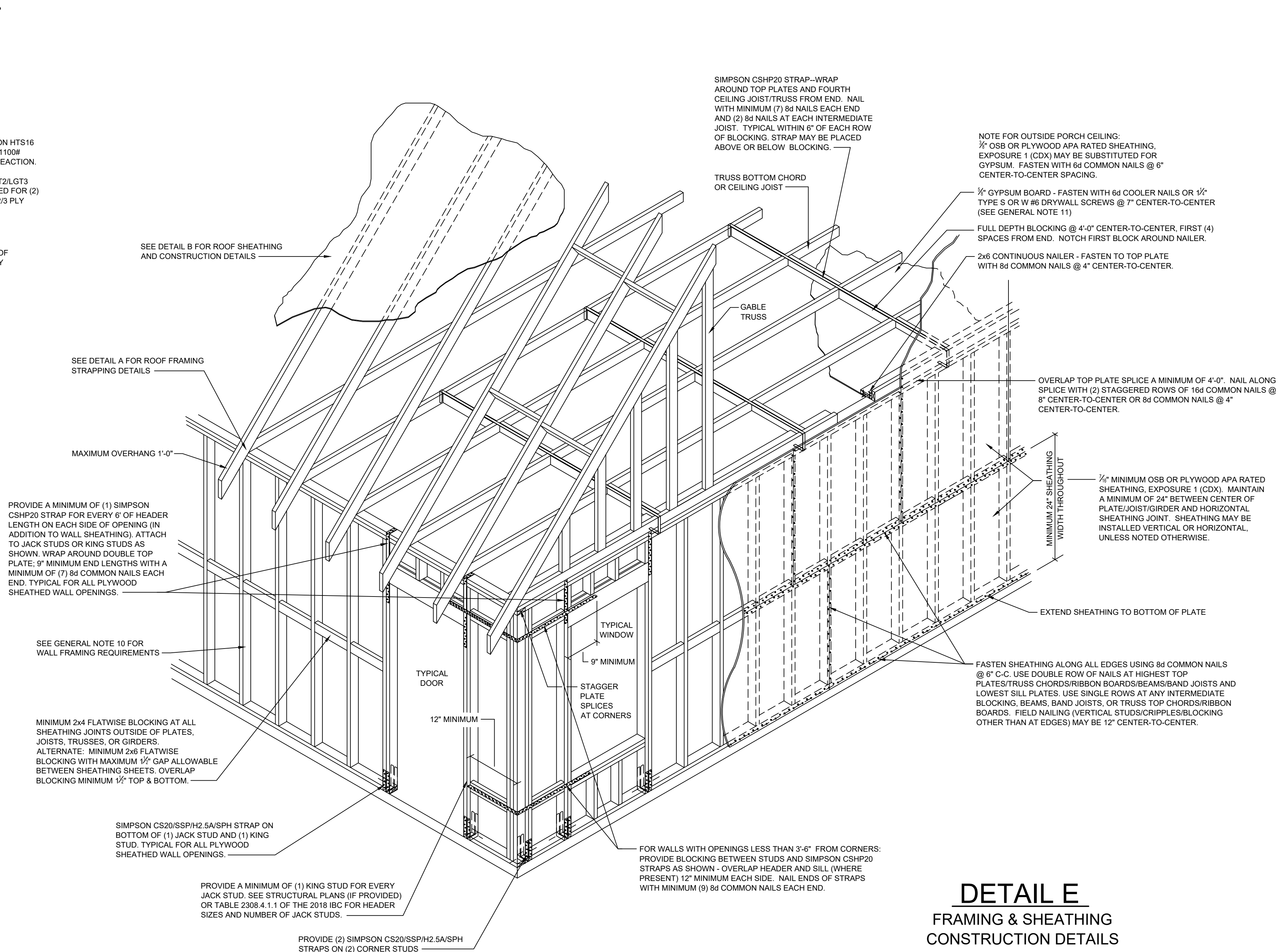
DETAIL C
 PORCH COLUMN FASTENING

GENERAL NOTES

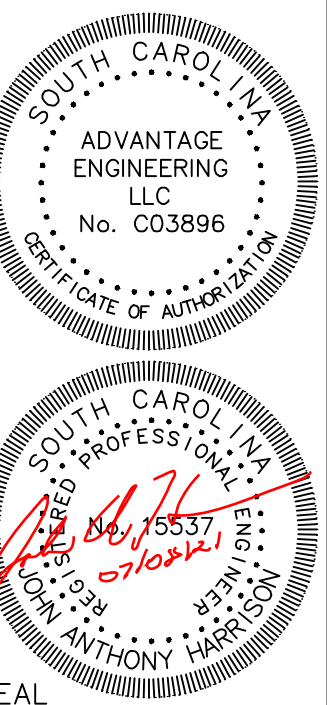
- ENGINEER'S DESIGN APPLIES TO DRAWINGS AS STAMPED. DESIGNS ARE FOR WIND, SEISMIC, AND FOUNDATION SYSTEMS ONLY AS SHOWN AND ASSUMES THE BUILDING ENVELOPE WILL BE MAINTAINED DURING HURRICANE FORCE WINDS.
- ANY ALTERATIONS OR DEVIATIONS FROM THE CONSTRUCTION SPECIFICATIONS CONTAINED WITHIN THESE DESIGN DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE PARTIES INVOLVED AND MAY VOID THE ENGINEERED DESIGN.
- ERECTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. DISCREPANCIES SHALL BE RESOLVED AS NEEDED WITH ENGINEER BEFORE PROCEEDING.
- ERECTOR SHALL FOLLOW STANDARD CONSTRUCTION PRACTICES DICTATED BY THE 2018 "INTERNATIONAL BUILDING CODE" (IBC) EXCEPT AS NOTED.
- ALL EXPOSED WOOD (POSTS, BEAMS, ETC.) AND WOOD IN CONTACT WITH CONCRETE OR MASONRY (SILL PLATES) SHALL BE PRESURE TREATED FOR EXTERIOR USE IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) GUIDELINES. WOOD SHALL BE TREATED FOR ABOVE OR BELOW GROUND USE, WHICHEVER APPLIES.
- ALL LIGHT GAUGE HARDWARE SHALL HAVE A MINIMUM G90 GALVANIZED COATING IN ACCORDANCE WITH ASTM A653 OR SHALL BE POST HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 (CONNECTORS) OR A153 (FASTENERS). HARDWARE IN CONTACT WITH TREATED WOOD SHALL HAVE A MINIMUM G185 COATING, SHALL BE POST HOT-DIP GALVANIZED, OR SHALL BE TYPE 316L STAINLESS STEEL.
- ALL CONNECTORS ARE SHOWN PLACED DIRECTLY ON THE FRAMING IN THE CONSTRUCTION DETAILS. THE CONNECTORS ARE SHOWN IN THIS MANNER FOR CLARITY. CONNECTORS CAN BE PLACED DIRECTLY ON FRAMING BEHIND THE SHEATHING OR ON TOP OF THE SHEATHING. IN EITHER CASE, THE CONNECTORS WOULD STILL BE PLACED TO BE NAILED DIRECTLY INTO FRAMING MEMBERS. ALWAYS FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION REQUIREMENTS.
- NAILED SPECIFIED SHALL BE COMMON WIRE NAILS OR EQUIVALENT PNEUMATIC NAILS UNLESS NOTED OTHERWISE. FOR EXAMPLE, 10d PNEUMATIC NAILS WITH 0.131" SHANK DIAMETER AND 2.5" OR GREATER LENGTH SHALL BE EQUIVALENT TO 8d COMMON NAILS WITH 0.131" SHANK AND 2.5" LENGTH.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ANCHOR BOLTS SHALL BE MINIMUM ASTM F1554, GRADE 36; THREADED BOLTS SHALL BE MINIMUM ASTM A325; ALL THREAD ROD SHALL BE MINIMUM ASTM A36.
- FLOOR, CEILING, AND ROOF FRAMING SHALL BE SYP, GRADE 2 OR BETTER, SIZED AND SPACED IN ACCORDANCE WITH AFPA AMERICAN WOOD COUNCIL STANDARD PS20 SPAN TABLES OR THE SPAN TABLES CONTAINED IN CHAPTER 23 OF THE 2018 IBC, UNLESS NOTED OTHERWISE. EXTERIOR WALLS SHALL BE FRAMED USING SYP 2x4 STUDS @16" C-C.
- REFER TO GYPSUM ASSOCIATION (GA) 218-2016, TABLE 1 FOR MAXIMUM FRAMING SPACING OF SINGLE LAYER GYPSUM BOARD WITH VARIOUS TEXTURES. FOR INTERIOR WALLS AND CEILINGS, FASTEN GYPSUM WALL BOARD WITH 6d COOLER NAILS AT 7" CENTER-TO-CENTER ON EDGES AND 7" CENTER-TO-CENTER IN FIELD. 6d COOLER NAILS MAY BE SUBSTITUTED WITH 1.25" TYPE S OR W, #6 DRYWALL SCREWS.
- TRUSSES (WHERE SUPPLIED) SHALL BE DESIGNED BY MANUFACTURER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ANSITP1 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION." MANUFACTURER TO SUBMIT DESIGN SPECIFICATIONS INDICATING DESIGN WIND SPEED (MIN. 145 MPH, EXPOSURE B, LOW-RISE PER ASCE 7-16), DEAD AND LIVE LOADS, HEIGHT ABOVE GROUND, AND AMOUNT OF UPLIFT AT THE BEARING POINTS. TRUSSES SHALL BE SPACED NO MORE THAN 24" ON CENTER AND SHALL BE DESIGNED FOR AN ENCLOSED/PARTIALLY OPEN BUILDING PER ASCE 7-16. ADJUST CONNECTOR TYPE AND CAPACITY PER MANUFACTURER'S DESIGN IF MORE RESTRICTIVE THAN TRUSS CONNECTOR DETAIL SHOWN. TRUSS LAYOUTS AND REACTION REPORTS HAVE NOT BEEN REVIEWED BY ADVANTAGE ENGINEERING, LLC OR THE ENGINEER OF RECORD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE TRUSS LAYOUTS AND REACTION REPORTS AND TO ENSURE THAT THE SPECIFIED CONNECTORS SHOWN ON THE DESIGN DRAWINGS ARE SUFFICIENT TO RESIST THE UPLIFT AND LATERAL LOADS IMPOSED. A COPY OF THE REPORTS MAY BE FORWARDED TO ADVANTAGE ENGINEERING FOR REVIEW.
- COMPONENTS & CLADDING SYSTEMS (ROOFING, SHUTTERS, ETC.) SHALL BE RATED FOR 145 MPH IN ACCORDANCE WITH ASCE 7-16. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. DOORS AND WINDOWS SHALL MEET A MINIMUM DESIGN PRESSURE RATING OF DP50 (DP30 PER ASD) PER ANSI/AAMA/NWDA 101.II.S.2-97 (UP TO 40' MEAN ROOF HEIGHT). GLAZED OPENINGS SHALL MEET THE REQUIREMENTS OF THE LARGE PANEL TEST OF ASTM E 1996 AND ASTM E 1886 OR BE PROTECTED BY WOOD STRUCTURAL PANELS IN ACCORDANCE WITH TABLE 1609.2 OF THE 2018 IBC.
- DESIGN BASED ON PLANS DESIGNED BY GEORGETOWN COUNTY'S FACILITIES SERVICE DEPARTMENT TITLED "GEORGETOWN COUNTY BIG DAM RECYCLE" DATED JULY 11, 2016.



DETAIL D
 CONNECTION DETAIL FOR A TRUSS GIRDER/BEAM ON A SLAB FOUNDATION



DETAIL E
 FRAMING & SHEATHING CONSTRUCTION DETAILS ONE STORY, SLAB FOUNDATION



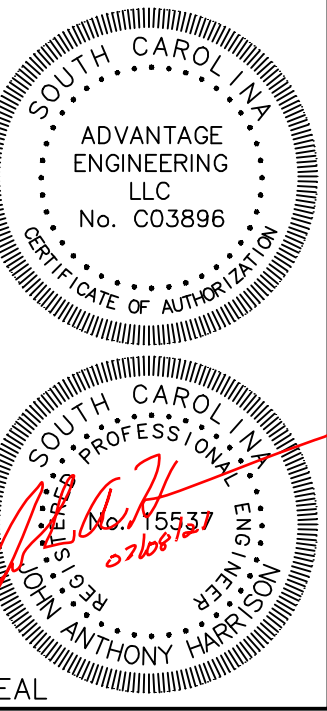
© COPYRIGHT 2021 ADVANTAGE ENGINEERING, LLC
 NOTICE
 All drawings, specifications, and copies thereof are instruments of service and remain the property of Advantage Engineering, LLC. The reproduction or unauthorized use of these documents on any other project without written permission of Advantage Engineering, LLC is strictly prohibited. This design is protected by federal copyright laws.

ADVANTAGE ENGINEERING, LLC
 1700 W. SWAMP DRIVE
 ANDREWS, SC 29510
 (803) 544-1000
 Fax: (803) 544-1000
 E-mail: info@advantageeng.com

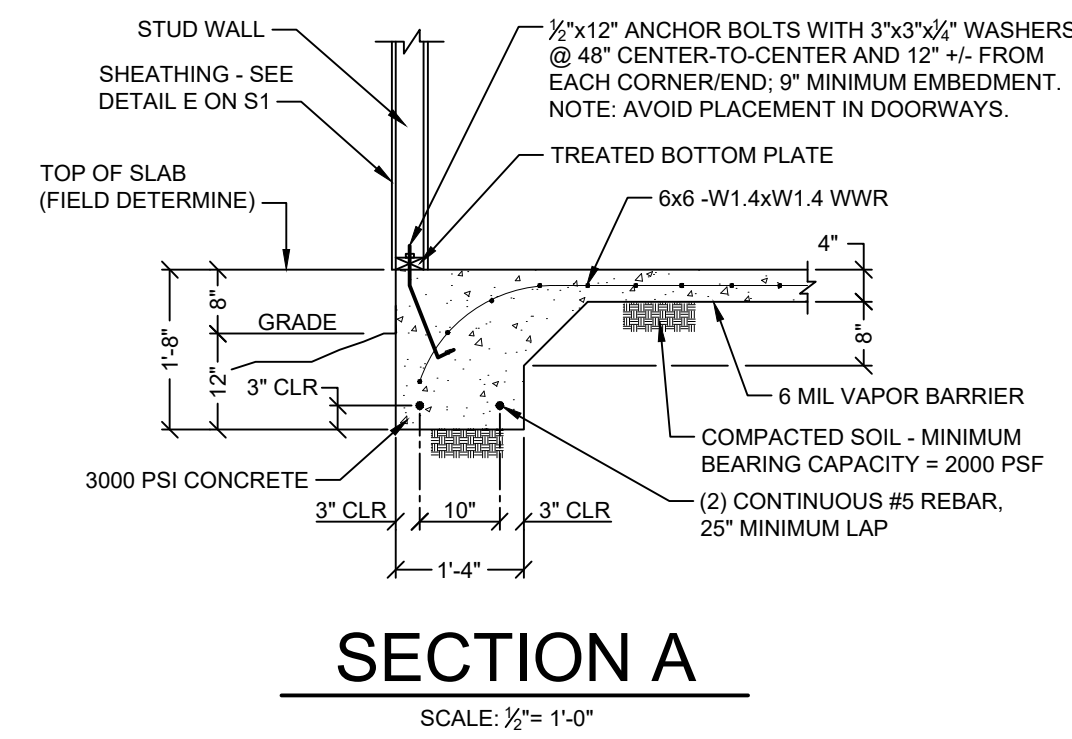
WIND & SEISMIC DESIGN DETAILS
 BIG DAM SWAMP RECYCLE CENTER
 17 BIG DAM SWAMP DRIVE
 ANDREWS, SC 29510

DWG BY: JAH	
DSN BY: JAH	
DATE: 07-08-21	
SCALE: NA	
REV#	DATE
1	XX/XX/XX
2	XX/XX/XX
3	XX/XX/XX
4	XX/XX/XX

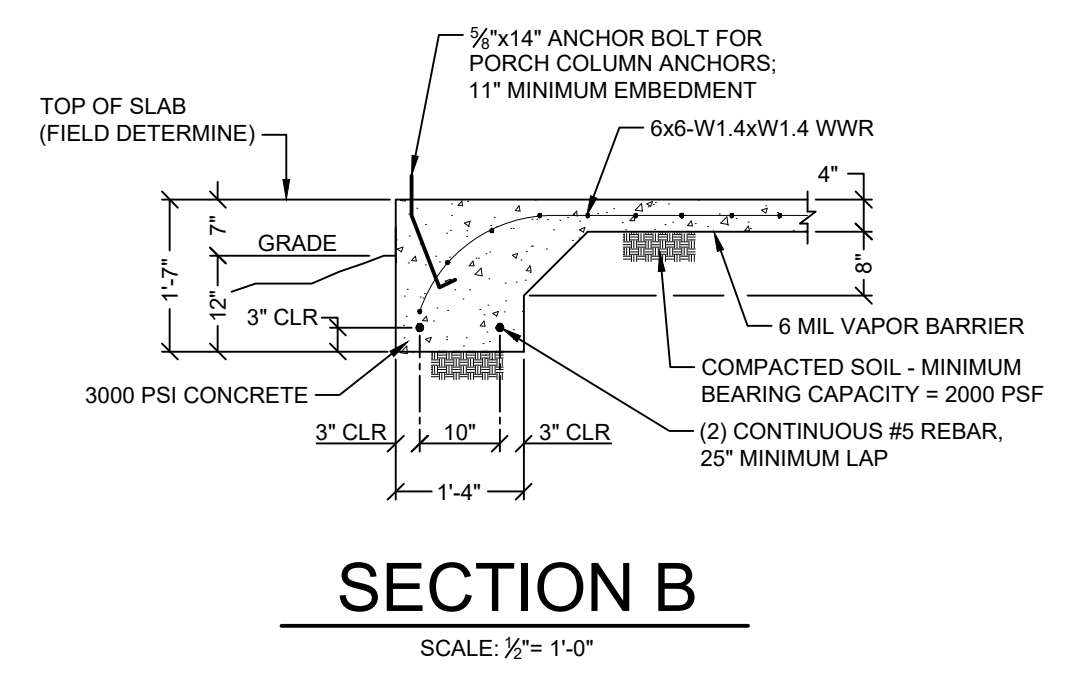
SHEET NO.



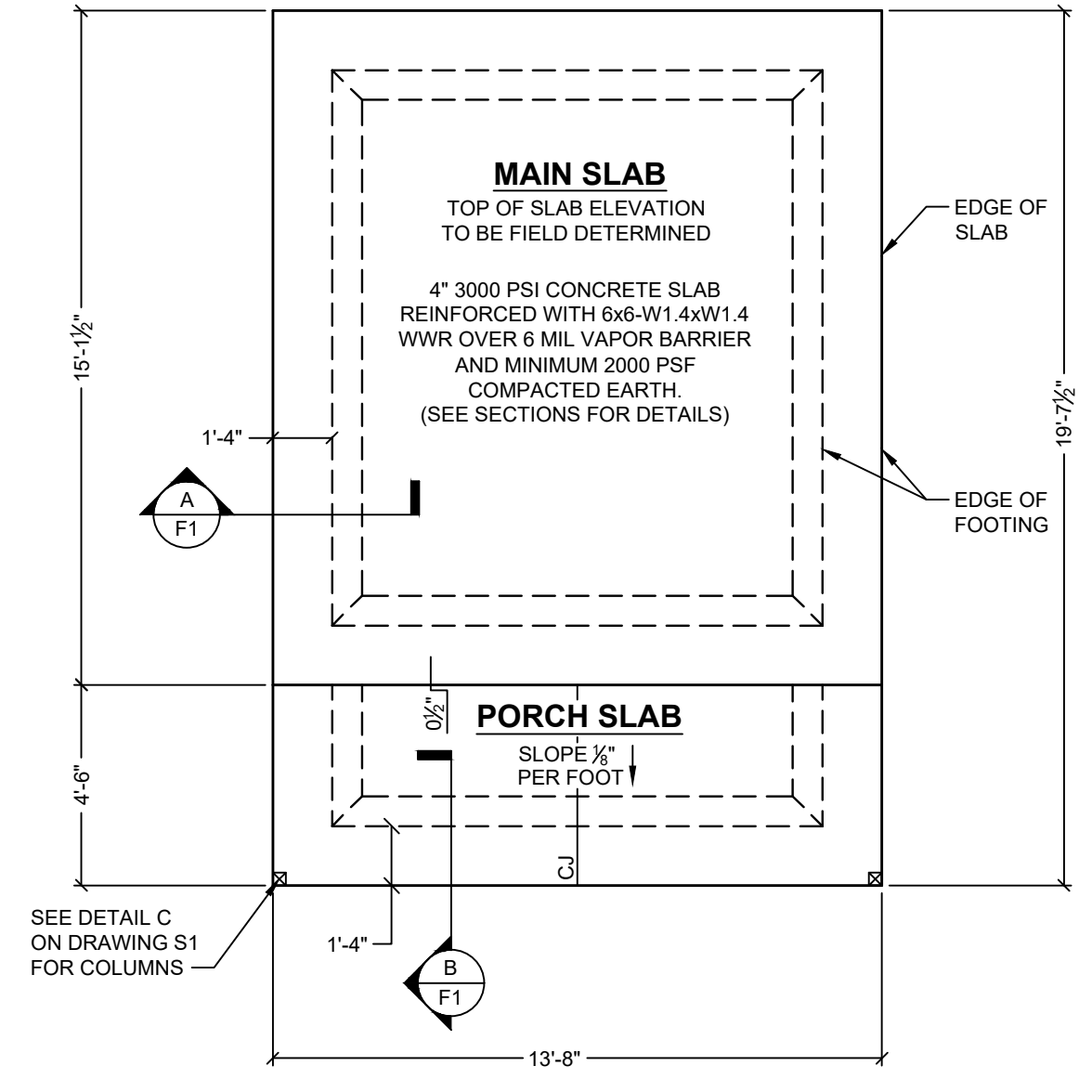
SEAL



SECTION A
SCALE: 1/2" = 1'-0"



SECTION B
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

FOUNDATION NOTES

- SOLID SOIL BEARING CAPACITY TO BE 2000 PSF MINIMUM. REMOVE ORGANIC MATERIAL AND POUR FOOTINGS AND SLAB ON COMPACTED NATURAL GROUND. IF SOIL IS SUSPECT OR OTHER THAN NATURAL GROUND, A SOIL ANALYSIS BY A QUALIFIED GEOTECHNICAL ENGINEER IS RECOMMENDED. SUCH ANALYSIS MAY SHOW REASON TO REDESIGN FOUNDATION.
- CONCRETE WORK SHALL MEET THE REQUIREMENTS OF ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." CONCRETE TO HAVE A 3000 PSI MINIMUM COMPRESSIVE STRENGTH.
- REBAR SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 40 OR 60. REBAR SPLICES SHALL BE TIED AND LAPPED A MINIMUM OF 40 DIAMETERS (E.G. 25" FOR #5 REBAR) UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT (WWR) SHALL MEET THE REQUIREMENTS OF ASTM A62/A185.
- SAW CUT SLAB CONTROL JOINTS ON MAXIMUM 10' GRID EACH WAY FOLLOWING CONCRETE PLACEMENT (UNHEATED AREAS ONLY).
- PROVIDE WARRANTED TERMITE TREATMENT PER 2018 IBC PRIOR TO CONCRETE PLACEMENT OR TREAT ALL INTERIOR AND EXTERIOR STRUCTURAL WOOD AND SHEATHING A MINIMUM OF 3 FEET UP FROM THE SLAB WITH BORA-CARE. CONSULT BORA-CARE TECHNICAL BULLETIN BC-W1-0202 FOR PROPER MIXING TECHNIQUES AND APPLICATION.

© COPYRIGHT 2021
ADVANTAGE ENGINEERING, LLC
NOTICE
All drawings, specifications, and copies thereof are instruments of service only and remain the property of Advantage Engineering, LLC. The reproduction or unauthorized use of these documents on any other project without written permission of Advantage Engineering, LLC is strictly prohibited. This notice is protected by federal copyright laws.

ADVANTAGE ENGINEERING, LLC
LIGHT COMMERCIAL RESIDENTIAL INDUSTRIAL
LET'S GET IT DONE. TECHNICAL. ADVANTAGE.
STRUCTURAL MECHANICAL PLUMBING & ELECTRICAL ENGINEERING
802 Whitland Avenue
Columbia, SC 29142
Phone: (803) 546-1500
E-mail: Advantage@ae.com

FOUNDATION DESIGN DETAILS
BIG DAM SWAMP RECYCLE CENTER
17 BIG DAM SWAMP DRIVE
ANDREWS, SC 29510

DWG BY: JAH	
DSN BY: JAH	
DATE: 07-08-21	
SCALE: NOTED	
REV#	DATE
1	XX/XX/XX
2	XX/XX/XX
3	XX/XX/XX
4	XX/XX/XX

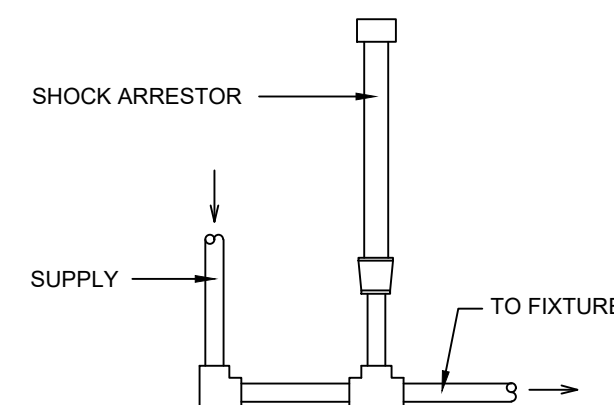
SHEET NO.
F1

GENERAL PLUMBING NOTES

1. WASTE, VENT, AND POTABLE WATER SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS AS SET FORTH IN THE 2018 INTERNATIONAL BUILDING CODE AND THE 2018 INTERNATIONAL PLUMBING CODE.
2. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
3. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
4. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
5. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.
6. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER-REQUESTED SERVICE CLEARANCES.
7. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES.
8. INSULATE ALL NEW COLD AND HOT WATER PIPING.
9. ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES.
10. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
11. CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
12. CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALL OPENINGS.
13. PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE.
14. ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED, RESOLDERED OR REPLACED AND RETESTED.
15. ALL SOLDER SHALL BE OF THE LEAD FREE TYPE.
16. WATER DISTRIBUTION PIPING SHALL BE CROSS-LINKED POLYETHYLENE (PEX) TUBING CONFORMING TO ASTM F 877. ALL HOT WATER DISTRIBUTION PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180 F. UNDERGROUND PIPING LARGER THAN 1/2" SHALL BE SCHEDULE 80 CPVC PIPE CONFORMING TO ASTM F-441. CPVC PIPE FITTINGS SHALL CONFORM TO ASTM F 437/ASTM F 438/ASTM F 439.
17. WASTE AND VENT PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PLASTIC SCHEDULE 40 PIPE (TYPE DWV) CONFORMING TO ASTM D 2665/ASTM D 2949/ASTM F 1489 OR CAST IRON PIPING CONFORMING TO ASTM A 74/ASTM A 886. PVC PIPE FITTINGS SHALL CONFORM TO ASTM D 2665/ASTM D 3311/ASTM F 1866. CAST IRON PIPE FITTINGS SHALL CONFORM TO ASME B 16.4/ASME B 16.12/ASTM A 74/ASTM A 888/CISPI 301.
18. MAIN WASTE PIPING (3") SHALL HAVE A MINIMUM 0.125" PER 12" SLOPE. ALL BRANCHES SHALL HAVE A MINIMUM 0.25" PER 12" SLOPE.
19. GENERAL CONTRACTOR TO PROVIDE PRE-MOLDED PIPE SEALS COMPATIBLE WITH ROOFING MATERIALS FOR ALL VENTS THROUGH THE ROOF.
20. PIPING SYSTEMS SHALL COMPLY WITH THE PROVISIONS IN SECTION 13.6.7 OF ASCE 7-16.
21. SEE ADDITIONAL NOTES ON DRAWING PME1.

PLUMBING FIXTURE SCHEDULE

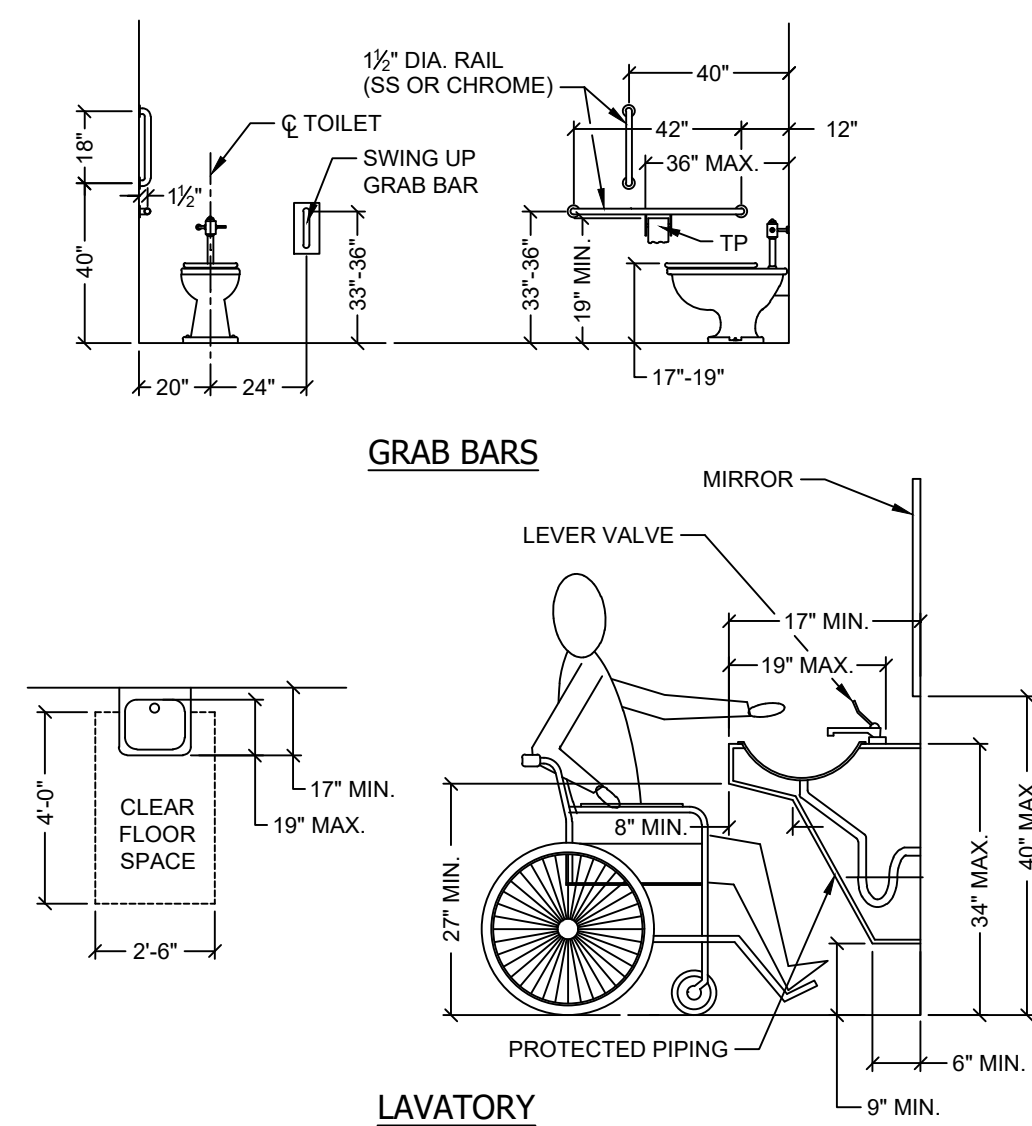
- P-1 HANDICAPPED WATER CLOSET, FLOOR MOUNTED, WATER SAVER TYPE (1.6 GAL/FLUSH), ELONGATED BOWL, OPEN FRONT SEAT, COVER AND SUPPLY, ELJER MODEL# 091-2175 OR EQUAL, WHITE WITH FLUSH ACTUATOR.
- P-2 SINGLE COMPARTMENT SELF RIMMING UNIMOUNT CAST IRON SINK MOUNTED 34" AFF; ELJER MODEL# 212-1083 OR EQUAL, WHITE. SUPPLY WITH ELJER MODEL# 35820030 ADA COMPLIANT, POLISHED CHROME FAUCET OR EQUAL.
- P-3 2.5 GALLON ELECTRIC WATER HEATER, 12 KW; HOME HEATING PRODUCTS MODEL# HHP2.5, OR EQUAL.



NOTES

1. PROVIDE "A" SIZE PDI WATER HAMMER ARRESTOR ON HOT AND COLD WATER SUPPLIES TO ALL FIXTURES OR BRANCH PER PDI-WH 201 STANDARD AND CONFORMING TO ASSE 1010.
2. OFFSET TO AVOID OBSTRUCTIONS WHERE NECESSARY.

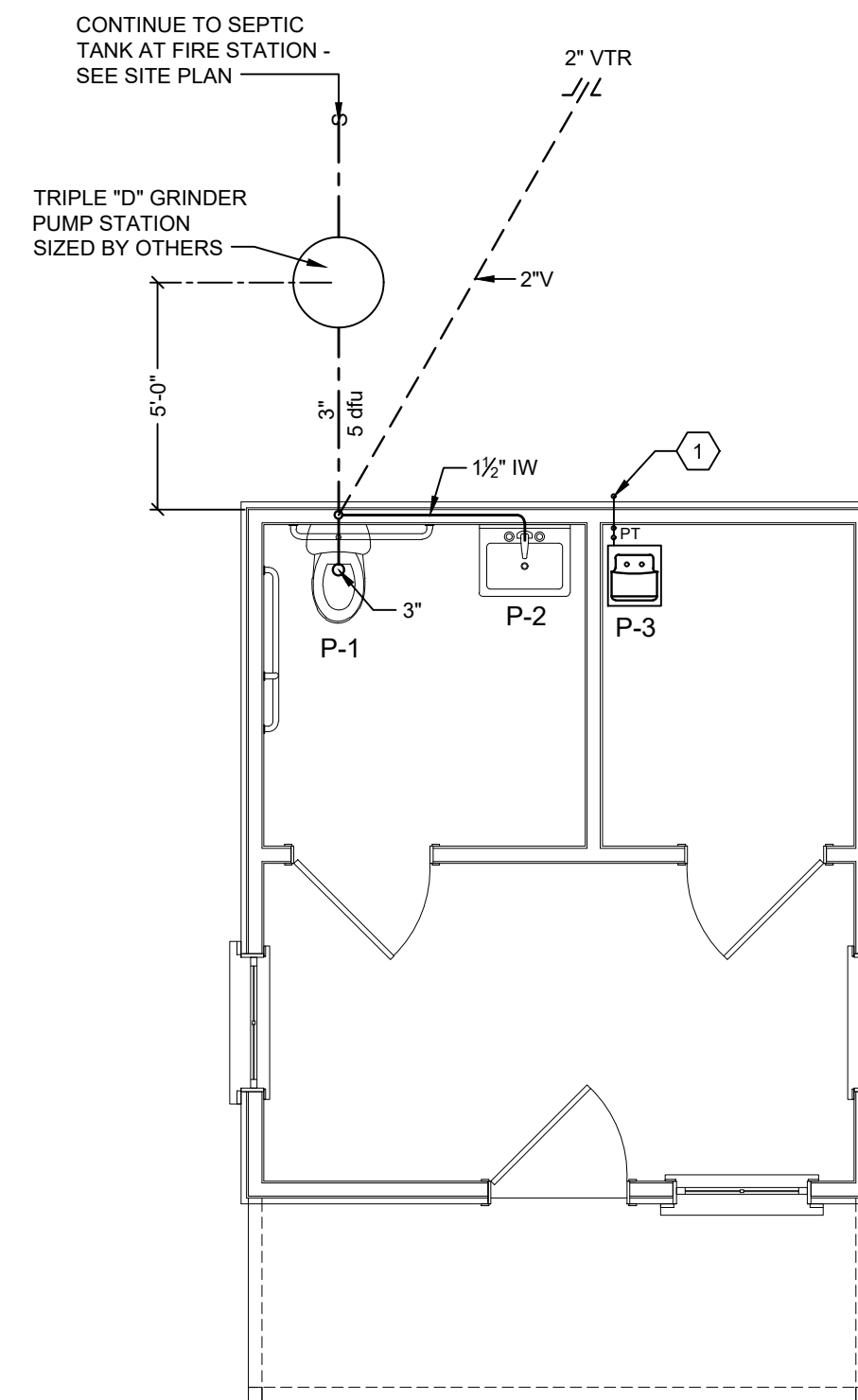
DETAIL A SHOCK ARRESTOR



HANDICAP RESTROOM DETAILS

WASTE & VENT LEGEND

---	VENT
---	WASTE BELOW SLAB
---	WASTE BELOW GRADE
①	KEY NOTE NUMBER
VTR	VENT THROUGH ROOF



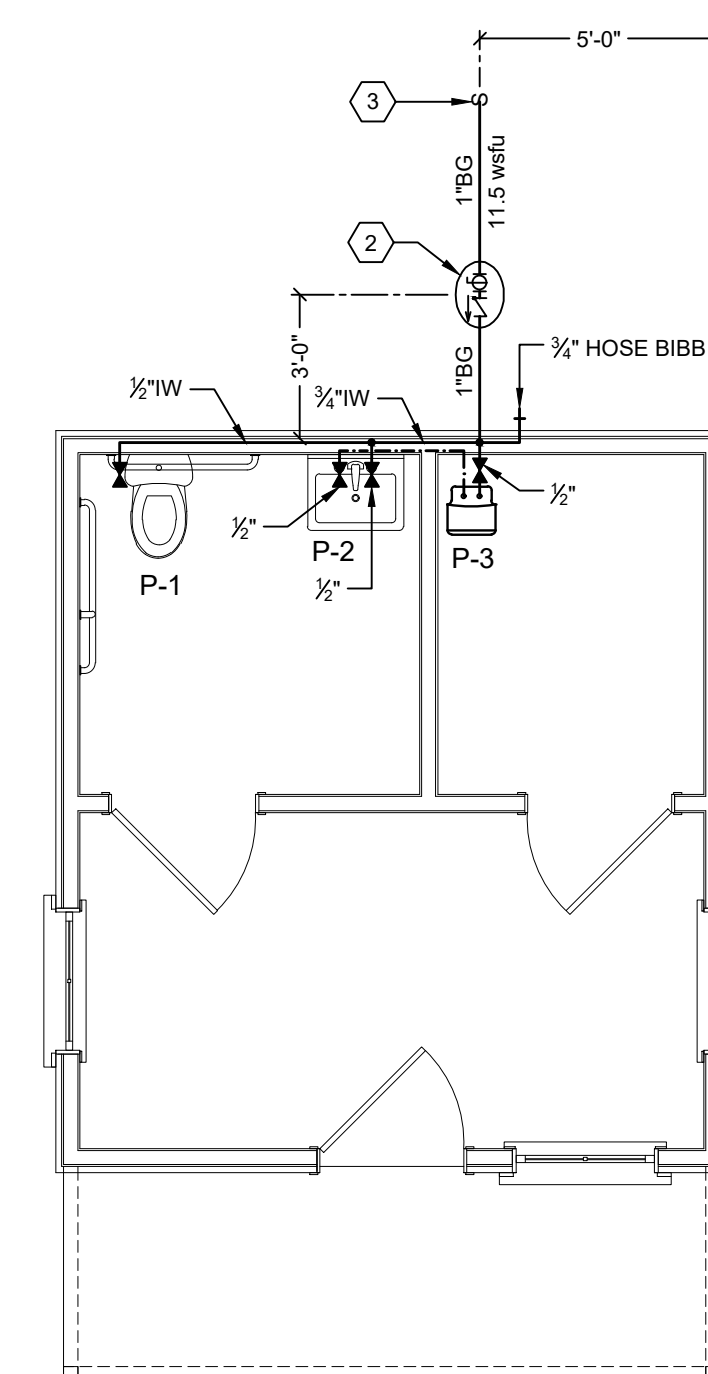
WASTE & VENT PLAN

NOTES KEYED TO PLANS

- ① INSTALL SPLASH SHIELD ON GROUND FOR DRAINAGE PIPES FROM WATER HEATER.
- ② STUB 5 FEET FROM BUILDING. INSTALL BALL VALVE IN C.I. BOX WITH BACKFLOW PREVENTER. CONTINUE TO MAIN POTABLE WATER SUPPLY.
- ③ 1" INCOMING WATER SERVICE FROM FIRE STATION - SEE SITE PLAN.

POTABLE WATER LEGEND

---	NEW COLD WATER PIPE
---	NEW HOT WATER PIPE
⊘	BALL VALVE
↔	BACKFLOW PREVENTER
+	HOSE BIBB WITH VACUUM BREAKER A MINIMUM OF 6" ABOVE (IPC 608.15.4)
①	KEY NOTE NUMBER
BG	PIPING BELOW GRADE
IW	PIPING IN WALL



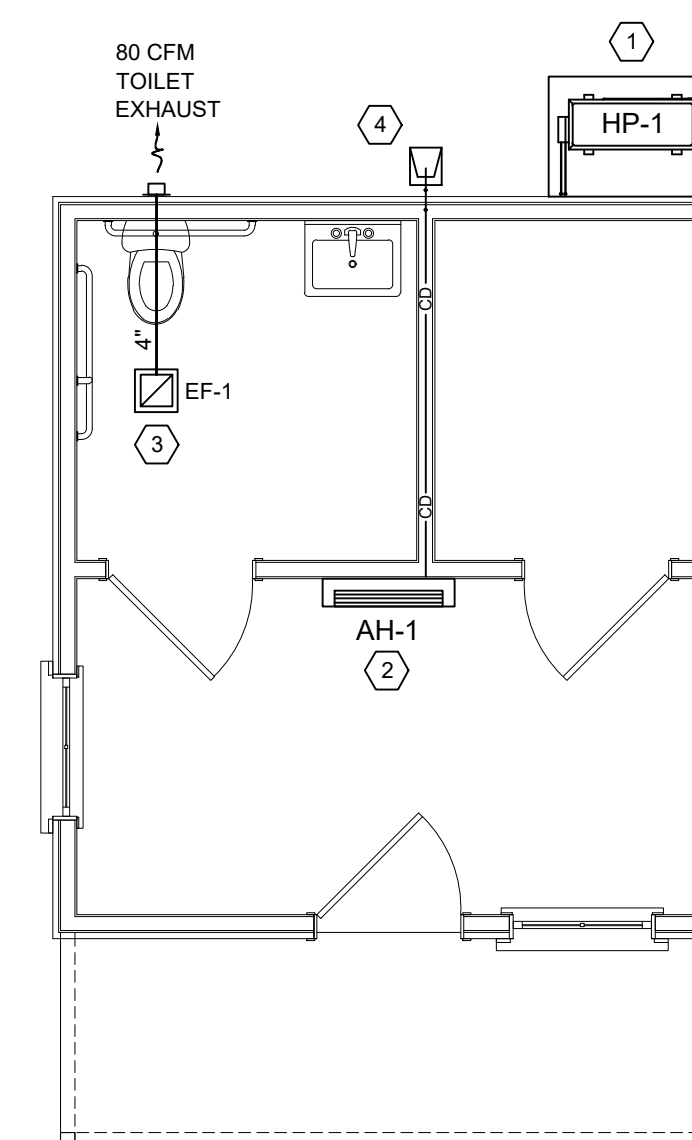
POTABLE WATER PLAN

GENERAL MECHANICAL NOTES

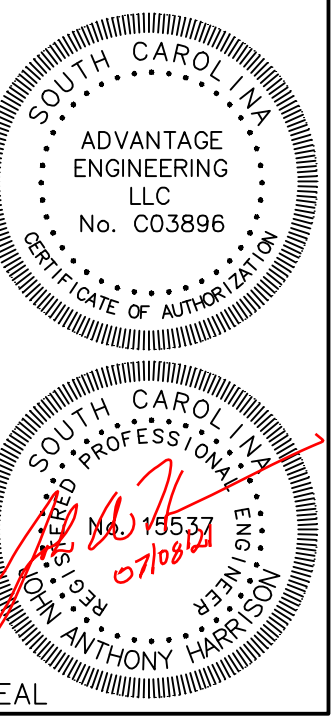
1. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS AS SET FORTH IN THE 2018 INTERNATIONAL BUILDING CODE AND THE 2018 INTERNATIONAL MECHANICAL CODE.
2. PREPLAN ALL WORK PRIOR TO PURCHASING, ORDERING, OR FABRICATING ANY PART OF THE WORK DESCRIBED ON THESE DRAWINGS.
3. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
4. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
5. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT, DEVICES, AND OTHER MATERIALS. PROVIDE ALL APPURTENANCES NECESSARY TO PROPERLY INSTALL EQUIPMENT, DEVICES, AND OTHER MATERIALS.
6. LOCATE EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER-REQUESTED SERVICE CLEARANCES.
7. COORDINATE THE ROUTING OF ALL PIPING WITH THE BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES.
8. SEE SPECIFICATIONS ON DRAWING PME1 FOR ADDITIONAL REQUIREMENTS.
9. HEATING AND COOLING LOADS BASED UPON A MAXIMUM OCCUPANCY OF 1 PERSON.
10. MECHANICAL COMPONENTS SHALL BE SECURED TO THE BUILDING STRUCTURE/ FOUNDATION IN ACCORDANCE WITH SECTION 13.6 OF ASCE 7-16 FOR SEISMIC DESIGN CATEGORY D2. PIPING SYSTEMS SHALL COMPLY WITH THE PROVISIONS IN SECTION 13.6.7 OF ASCE 7-16.

NOTES KEYED TO PLAN:

- ① CARRIER MODEL# 38MRB009AA3 HEAT PUMP CONDENSER (9,000 BTUH COOLING CAPACITY & 9,800 (47F) / 7,500 (17F) BTUH HEATING CAPACITY)
- ② CARRIER MODEL# 40MHQ09-3 HEAT PUMP INDOOR UNIT. MOUNT BELOW CEILING IN ACCORDANCE WITH MANUFACTURER'S CLEARANCES.
- ③ BROAN MODEL 684 CEILING EXHAUST FAN (80 CFM). INTERLOCK WITH BATHROOM LIGHTING AND PROVIDE WITH A BROAN MODEL# 885AL 4" HOODED WALL CAP.
- ④ 1/2" CONDENSATE DRAIN DOWN TO CONCRETE SPLASH BLOCK AT GRADE.



MECHANICAL PLAN



© COPYRIGHT 2021
ADVANTAGE ENGINEERING, LLC
NOTICE
All drawings, specifications, and copies thereof are instruments of service and remain the property of AdvantAge Engineering, LLC. The reproduction or unauthorized use of these documents on any other project without written permission of AdvantAge Engineering, LLC is strictly prohibited. This notice is protected by federal copyright laws.

ADVANTAGE ENGINEERING, LLC
1715 S. STATE STREET, SUITE 100
COLUMBIA, SC 29204
Phone: (803) 544-1000
Fax: (803) 544-1001
E-mail: AdvantAge@advantage-engineering.com

PLUMBING & MECHANICAL PLANS
BIG DAM SWAMP RECYCLE CENTER
17 BIG DAM SWAMP DRIVE
ANDREWS, SC 29510

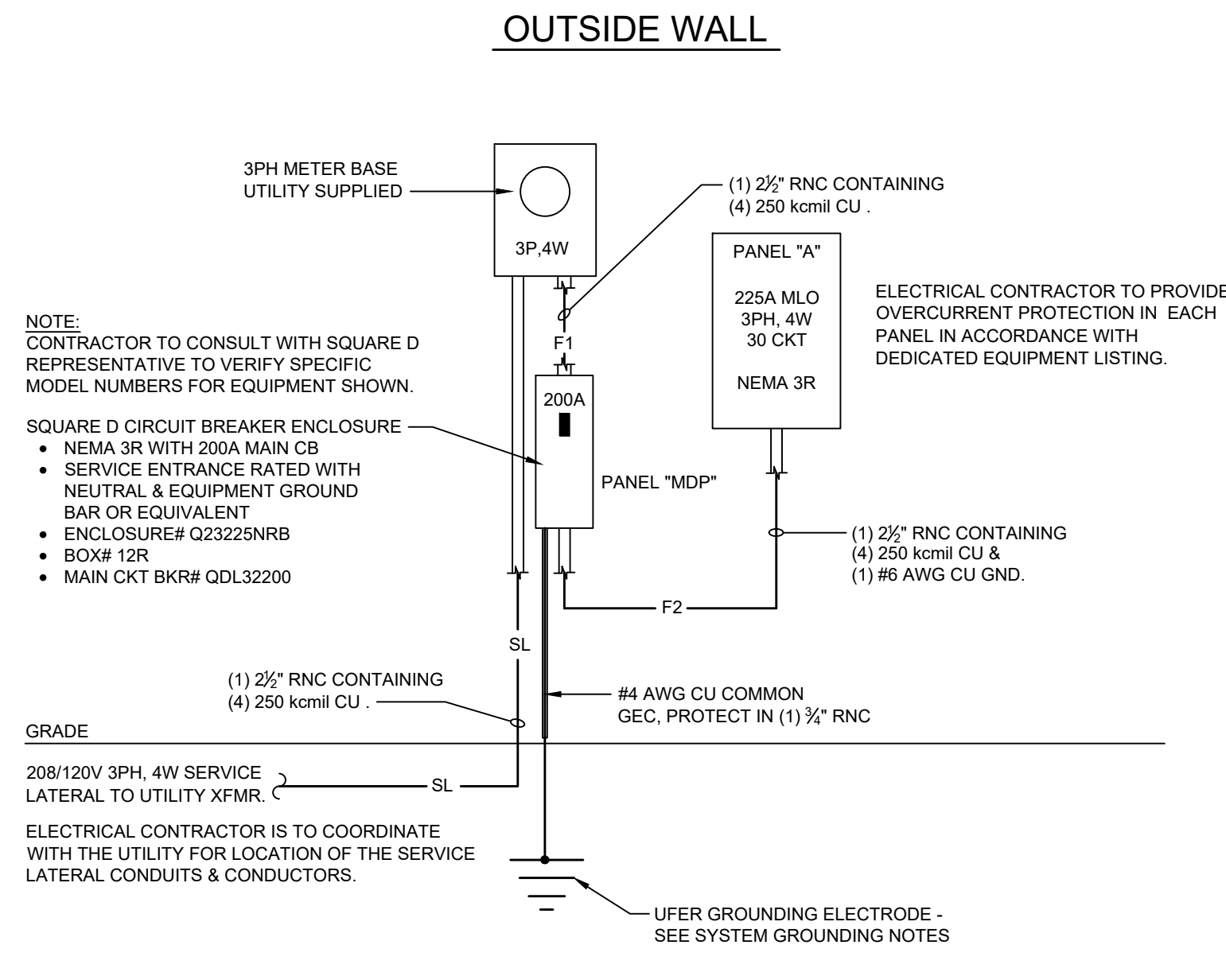
DWG BY:	JAH
DSN BY:	JAH
DATE:	07-08-21
SCALE:	1/2" = 1'-0"
REV#	DATE
1	XX/XX/XX
2	XX/XX/XX
3	XX/XX/XX
4	XX/XX/XX

SHEET NO.
PME
2

LOAD CALCULATIONS FOR:
BIG DAM SWAMP RECYCLE CENTER
17 BIG DAM SWAMP DRIVE
GEORGETOWN COUNTY, SC

SERVICE LOAD (208 SQ FT BUILDING) SERVICE: 208/120v 3PH, 4W			
CONNECTED LOAD	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
LIGHTS			
INTERIOR (Office Building - 3.5 VA/ft x 208 sf)	0.728	1.00	0.728
EXTERIOR	0.013	1.25	0.016
SIGN	0.000	1.25	0.000
RECEPTACLES			
1ST 10 KVA	1.440	1.00	1.440
REMAINDER	0.000	.50	0.000
HWAC EQUIPMENT	1.331	1.00	1.331
MISC EQUIPMENT	63.775	1.00	63.775
KITCHEN EQUIPMENT	1.920	1.00	1.920
WATER HEATERS	0.000	1.25	0.000
LARGEST MOTOR (Compactor #3)	27.348	.25	6.837
TOTAL DEMAND KVA (NEC CALCULATED)			76.047
TOTAL DEMAND AMPS (NEC CALCULATED)			211.34A
TOTAL NEUTRAL DEMAND KVA (NEC CALCULATED)			69.210
TOTAL NEUTRAL DEMAND AMPS (NEC CALCULATED)			192.34A

POWER RISER DIAGRAM



CONDUIT & CABLE SCHEDULE					
COPPER					
COND. TAB	COND. SIZE	TYPE	PHASE	NEUTRAL	EGC
SL	(1)EA 2 1/2"	RNC SCH 40	(3)EA 250kcmil	(1)EA 250kcmil	
F1	(1)EA 2 1/2"	RNC SCH 40	(3)EA 250kcmil	(1)EA 250kcmil	
F2	(1)EA 2 1/2"	RNC SCH 40	(3)EA 250kcmil	(1)EA 250kcmil	(1)EA #6 AWG

*NOTE: EACH CONDUIT CONTAINS NUMBER AND SIZE OF CONDUCTORS SPECIFIED IN THE TABLE (I.E. SOME OF THESE CIRCUITS REQUIRE PARALLEL CONDUCTORS FOR HOT AND NEUTRALS).

NOTES

- INSULATION FOR ALL CONDUCTORS TO BE RATED 75C OR GREATER, AND LISTED FOR WET LOCATIONS.
- PROVIDE LISTED CONNECTORS AND FITTINGS FOR ALL CABLE CONNECTIONS. PREPARE ALL CABLES UTILIZING APPROVED METHODS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

SYSTEM GROUNDING NOTES

- UFER GROUNDING ELECTRODE**
- THE UFER GROUNDING ELECTRODE SHALL CONSIST OF A MINIMUM OF 20 FT OF CONTINUOUS #4 (1/2") SIZED OR GREATER REBAR LOCATED NEAR THE BOTTOM OF THE BUILDING PERIMETER CONCRETE FOOTING. THE REBAR GROUNDING ELECTRODE MAY CONSIST OF SEVERAL PIECES OF REBAR WHICH HAVE BEEN SPLICED TOGETHER UTILIZING REBAR TIE WIRE TO OBTAIN THE REQUIRED 20 FT LENGTH.
 - CONNECT THE UFER GROUNDING ELECTRODE TO THE #4 AWG GROUNDING ELECTRODE CONDUCTOR UTILIZING A GROUNDING CLAMP LISTED FOR ENCASMENT.
 - BRING THE GROUNDING ELECTRODE CONDUCTOR THROUGH THE FOOTING UTILIZING A RNC SLEEVE. TERMINATE THE #4 AWG GEC TO THE NEUTRAL BAR OF PANEL "MDP".

200A MAIN DISCONNECT PANEL "MDP"

- BOND THE NEUTRAL BAR TO THE BOX UTILIZING A FACTORY SUPPLIED MAIN BONDING JUMPER OR AN EQUIVALENT #2 AWG COPPER JUMPER.
- CONNECT EQUIPMENT GROUNDING BAR TO THE BOX.
- CONNECT THE EQUIPMENT GROUNDING CONDUCTOR TO THE EQUIPMENT GROUNDING BAR.

POWER PANEL "A"

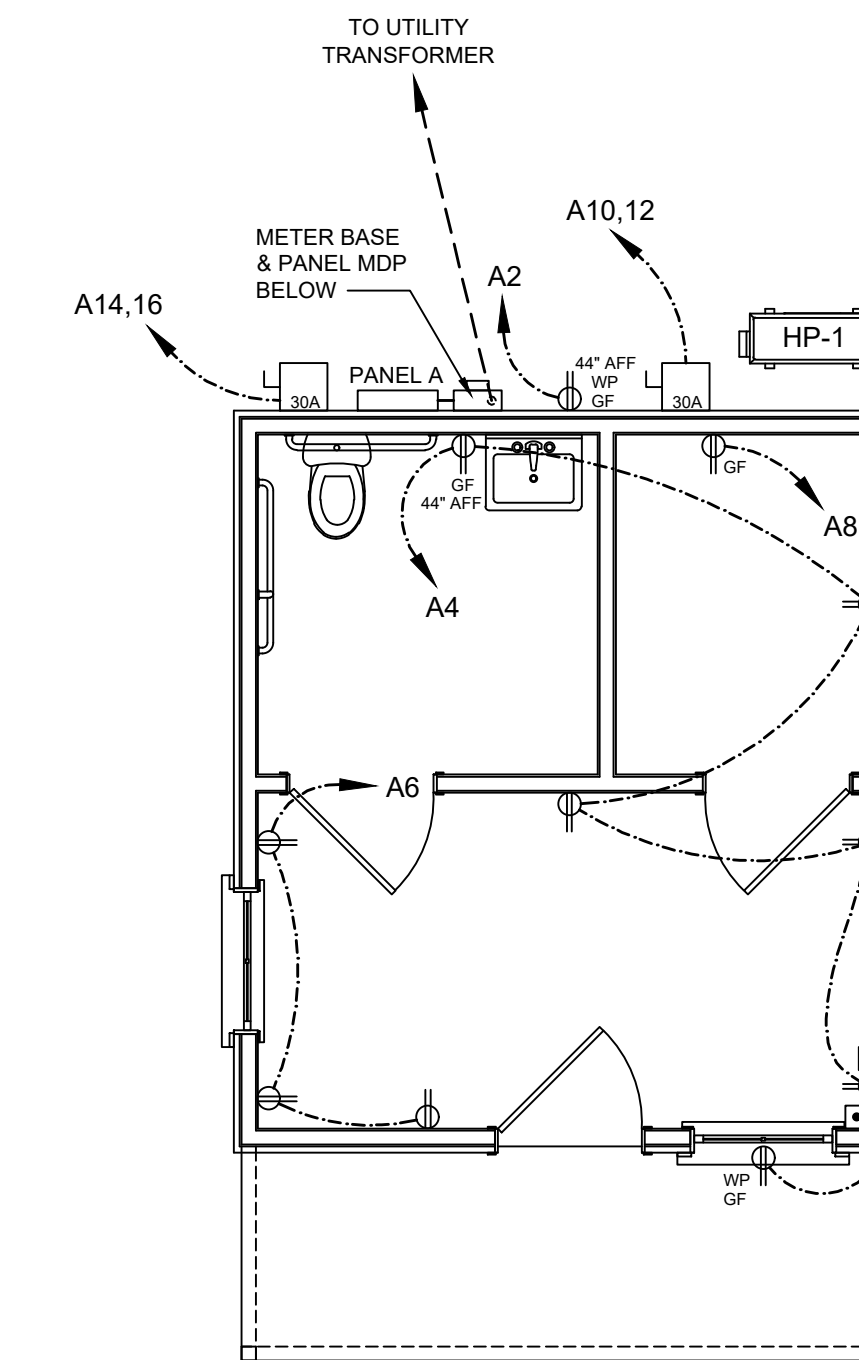
- NO CONNECTIONS BETWEEN THE NEUTRAL AND EQUIPMENT GROUND ARE PERMITTED.
- CONNECT NEUTRAL CONDUCTOR TO NEUTRAL BAR.
- CONNECT EQUIPMENT GROUNDING CONDUCTOR TO EQUIPMENT GROUND BAR.

PANEL "A"

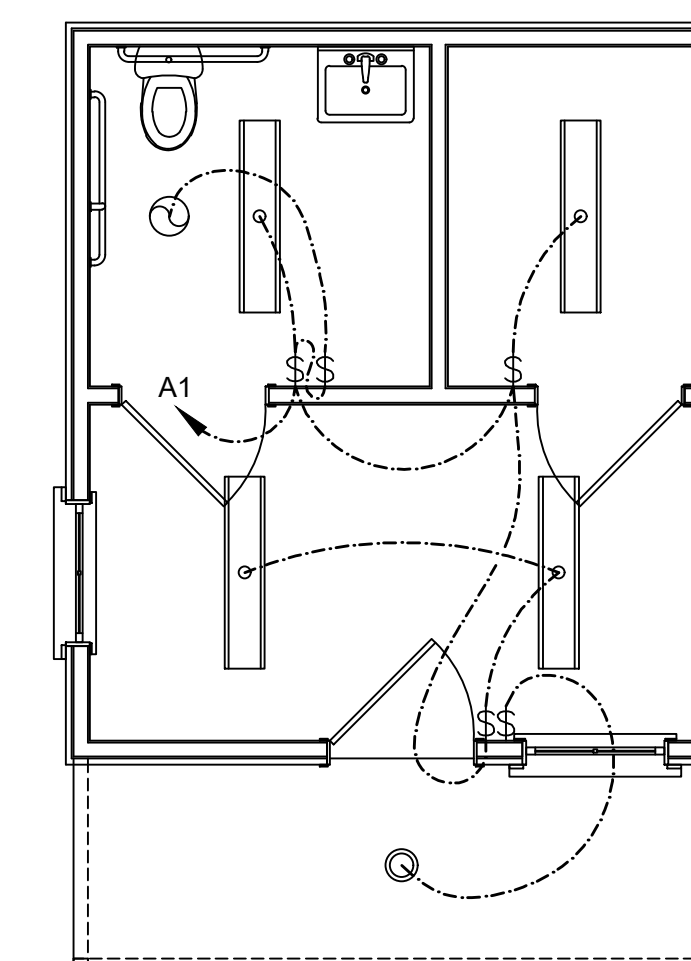
VOLTAGE: 208/120 PHASE: 3 WIRE: 4 MAIN DEVICE: MLO		BUS RATING: 225A MCB RATING: KAIC RATING: 25 SER.		MOUNTING: SURFACE ENCLOSURE: NEMA 3R VENDOR: SQUARE D MODEL: NQ430L2C							
CKT. NO.	BKR. SIZE	CONDUCT.	COND.	CKT. LOAD (KVA)	SERVICE	CKT. LOAD (KVA)	COND.	CONDUCT.	BKR. SIZE	CKT. NO.	
A 1	15A	14 14 14	1/2"	0.237	LIGHTS & RR FAN	RECEPTACLES - REAR	1.080	1/2"	12 12 12	20A	2
B 3	20A				SPARE	RECEPTACLES - RIGHT	2.100	1/2"	12 12 12	20A	4
C 5	20A				SPARE	RECEPTACLES - LEFT	1.200	1/2"	12 12 12	20A	6
A 7	60A	4 4 10 1"		5.398	COMPACTOR #1 (15 hp) ¹	WATER HEATER	0.666	1/2"	14 14 14	15A	10
B 9	60A	4		5.398	COMPACTOR #2 (15 hp) ¹	HEAT PUMP (HP-1)	1.373	1/2"	10 10 10	30A	14
C 11	60A	4		5.398	COMPACTOR #3 (30 hp) ²	SEWER LIFT STATION					18
A 13	60A	4 4 10 1"		5.398							20
B 15	60A	4		5.398							22
C 17	60A	4		5.398							24
A 19	125A	1/0 1/0 6 1 1/2"		9.116							26
B 21	125A	1/0		9.116							28
C 23	125A	1/0		9.116							30

- NOTES:**
- PROVIDE WITH A 3-POLE 60A FUSIBLE DISCONNECT AT COMPACTOR. SUPPLY WITH 60A FUSES.
 - PROVIDE WITH A 3-POLE 125A FUSIBLE DISCONNECT AT COMPACTOR. SUPPLY WITH 110A FUSES.

ELECTRICAL SYMBOL LEGEND	
	RECESSED OUTDOOR CAN LIGHT - LITHONIA WF6 LL LED 27K BN; 12.7W
	LED WRAPAROUND - LITHONIA LBL4 LP835 (CI-254RJY); 32W
	EXHAUST FAN
	SINGLE POLE SWITCH; MOUNT 4" AFF. UNO
	DUPLEX OUTLET, 120V; MOUNT 18" AFF. UNO, NEMA 5-20R
	NON-FUSIBLE DISCONNECT WITH RATING
	PUSHBUTTON FOR COMPACTOR #1
	TELEPHONE/DATA CAT6 OUTLET
	NEMA 3R SURFACE MOUNT CIRCUIT BREAKER PANEL
	FEEDER OR BRANCH CIRCUIT TO PANEL WITH CIRCUIT NUMBER
	WATERPROOF ENCLOSURE
	GROUND FAULT CIRCUIT INTERRUPT



POWER PLAN



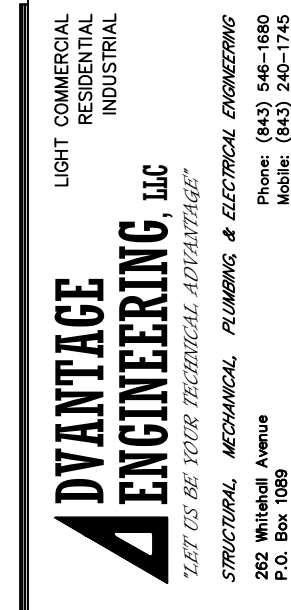
LIGHTING PLAN

GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES, THE GENERAL CONTRACTOR, AND THE OWNER FOR THE PROPER PLACEMENT OF ALL ELECTRICAL EQUIPMENT, LIGHTING, AND OUTLETS.
- THE ELECTRICAL CONTRACTOR IS TO VERIFY ALL FIXED APPLIANCE AND EQUIPMENT NAMEPLATE RATINGS TO ASSURE PROPER OVERCURRENT PROTECTION AND CONNECTIONS PER THE 2017 NEC.
- ALL WIRING IS TO BE PULLED ACCORDING TO THE APPLICABLE POWER RISER OR PANEL LEDGER SCHEDULE.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONDUCTOR WIRING TO BE COPPER, 75C RATED OR GREATER AND LISTED FOR WET LOCATIONS.
- INSTALL ALL WIRING IN LISTED RACEWAY OR CABLE SYSTEMS UTILIZING LISTED FITTINGS AND CONNECTORS. RACEWAYS AND WIRING SHALL BE RUN CONCEALED IN THE SLAB, WALLS AND CEILING, UNLESS CONDITIONS DICTATE OTHERWISE.
- ALL PENETRATIONS OF WOOD STRUCTURAL MEMBERS BY ELECTRICAL OR COMMUNICATION CABLES SHALL BE SEALED UTILIZING AN APPROVED AND LISTED FIRESTOP.
- SURFACE MOUNTED LIGHT FIXTURES SHALL BE MOUNTED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.



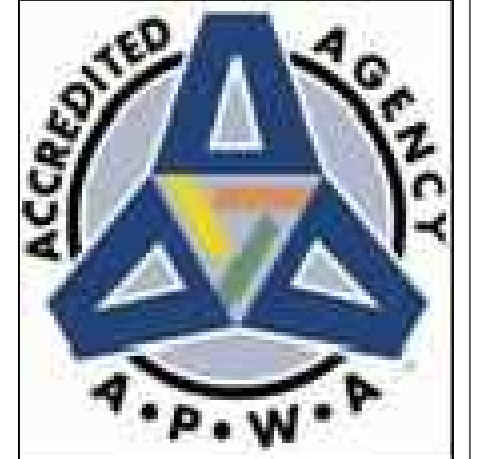
© COPYRIGHT 2021
ADVANTAGE ENGINEERING, LLC
NOTICE
All drawings, specifications, and copies thereof are instruments of service and remain the property of Advantage Engineering, LLC. The reproduction or unauthorized use of these documents on any other project without written permission of Advantage Engineering, LLC is strictly prohibited. This design is protected by federal copyright laws.



ELECTRICAL PLAN
BIG DAM SWAMP RECYCLE CENTER
17 BIG DAM SWAMP DRIVE
ANDREWS, SC 29510

DWG BY:	JAH
DSN BY:	JAH
DATE:	07-08-21
SCALE:	1/4" = 1'-0"
REV#	DATE
1	XX/XX/XX
2	XX/XX/XX
3	XX/XX/XX
4	XX/XX/XX

SHEET NO.
PME
3



CONSULTANTS

CONSULTANTS

FACILITY SERVICES PROJECTS

GEORGETOWN COUNTY
BIG DAM SWAMP RECYCLE CENTER

CONSTRUCTION DRAWING

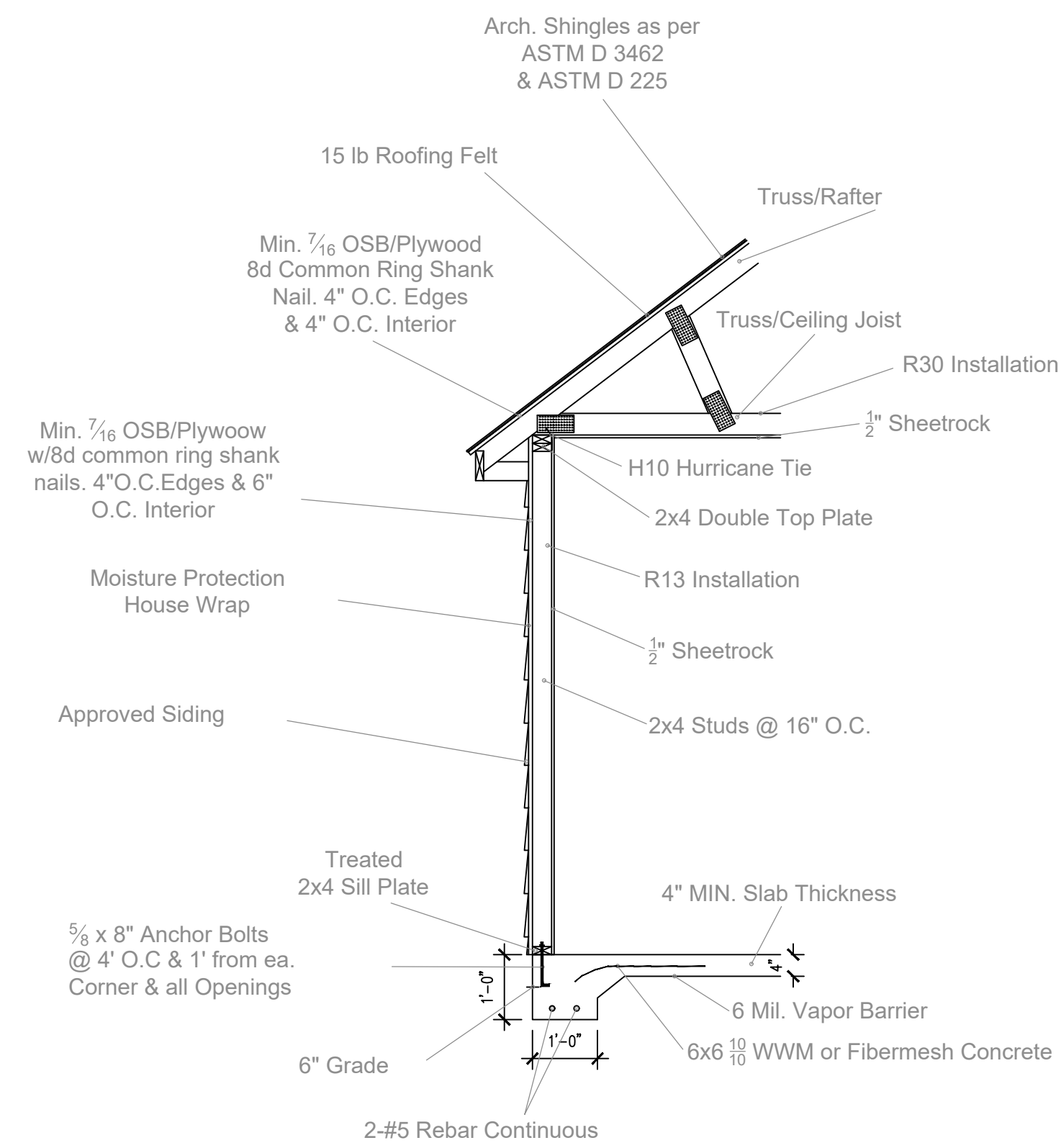
REVISIONS		
MARK	DATE	DESCRIPTION

DATE: JULY 22, 2021
 CAD DWG FILE: RECYCLE 4-22-21.DWG
 DRAWN BY: DEC
 DESIGNED BY: DEC

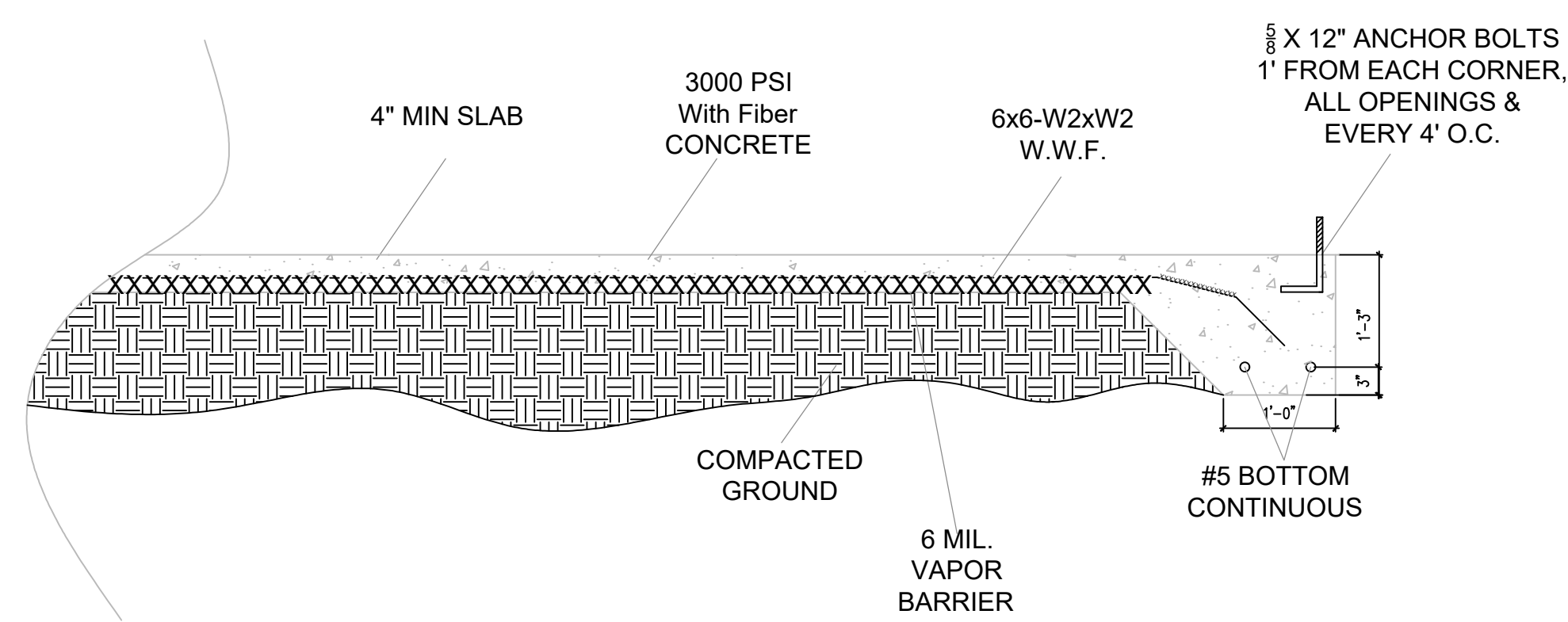
SHEET TITLE:
FRONT

SCALE:
 $\frac{3}{4}'' = 1'$

SHEET NO:
A-100

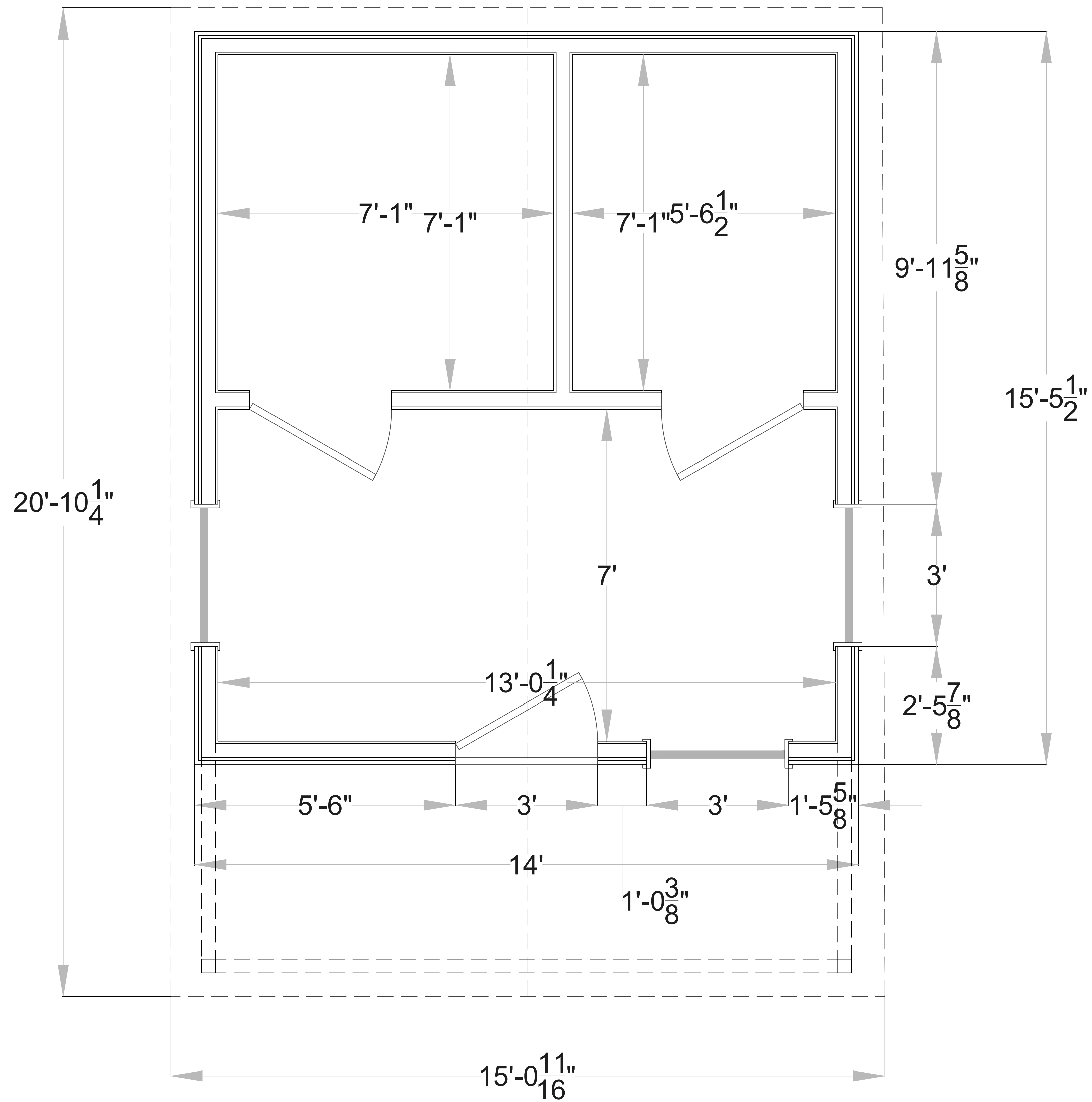


MONOLITHIC WALL SECTION



MONOLITHIC SLAB

All wood framing members and sheathing shall comply with the specifications outlined in the 2018 International Building Code and American Forest & Paper Association's (AF&PA) 2018 Edition of the National Design Specification (NDS) for Wood Construction. Wood framing members for the roof and ceiling shall be minimum #2 Southern Yellow Pine (SYP) and the wall framing shall be minimum stud grade Spruce-Pine-Fir (SPF). See General Note 10 on Advantage Engineering Drawing S1. Sheathing shall be minimum APA rated OSB or plywood, exposure 1.

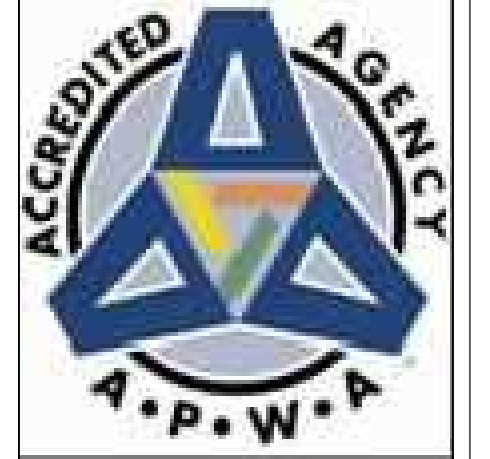
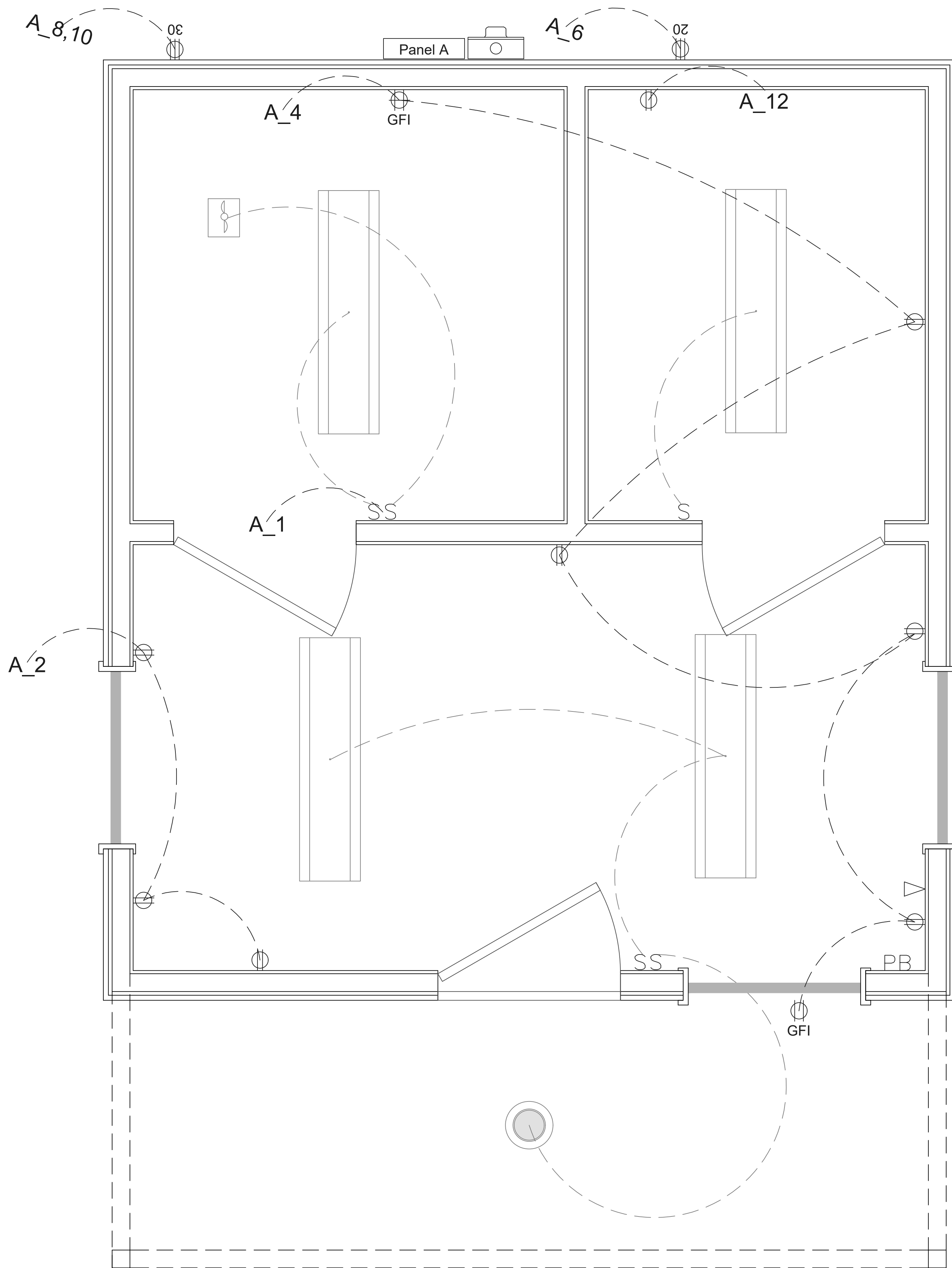


P A N E L A					
120-208 volts, 3 Phase, 225 amp main breaker, NEMA 3					
1	20	Lights	2	20	Receptacles
3			4	20	Receptacles
5			6	20	Mini Split
7			8	30	Grinder Pump
9	60	Compactor #01	10	30	Lift Station
11			12	20	Water Heater
13			14		
15	60	Compactor #02	16		
17			18		
19			20		
21	110	Compactor #03	22		
23			24		
25			26		
27			28		
29			30		

E L E C T R I C A L N O T E S		
1	S	Switch 48" Off Finished Floor (White)
2	⊕	Receptacle 18" Off Finished Floor (White)
3	⊕ GFI	GFCI Receptacle 42" Off Finished Floor (White)
4	▽	Data/Phone 18" Off Finished Floor (White)
5	PB	Push buttons for Compactor #1
6	⊕	Receptacle 18" Off Finished Floor (White)
7	⊕ 30	30amp 208 volt Receptacle weatherproof
8	⊕ GFI	GFCI Receptacle 18" Off Finished Floor (White)
9		
10		
11		

L I G H T S N O T E S		
1	SS	LED surface mounted wrap around fixture
2	⊙	Led Recessed Light Fixture
3	⊕	Bath exhaust fan (NuTone EZ80N 80 cfm)
4		
5		
6		
7		
8		
9		
10		
11		

All wood framing members and sheathing shall comply with the specifications outlined in the 2018 International Building Code and American Forest & Paper Association's (AF&PA) 2018 Edition of the National Design Specification (NDS) for Wood Construction. Wood framing members for the roof and ceiling shall be minimum #2 Southern Yellow Pine (SYP) and the wall framing shall be minimum stud grade Spruce-Pine-Fir (SPF). See General Note 10 on Advantage Engineering Drawing S1. Sheathing shall be minimum APA rated OSB or plywood, exposure 1.



CONSULTANTS

FACILITY
SERVICES
PROJECTS

GEORGETOWN COUNTY
BIG DAM SWAMP RECYCLE CENTER

CONSTRUCTION
DRAWING

REVISIONS		
MARK	DATE	DESCRIPTION

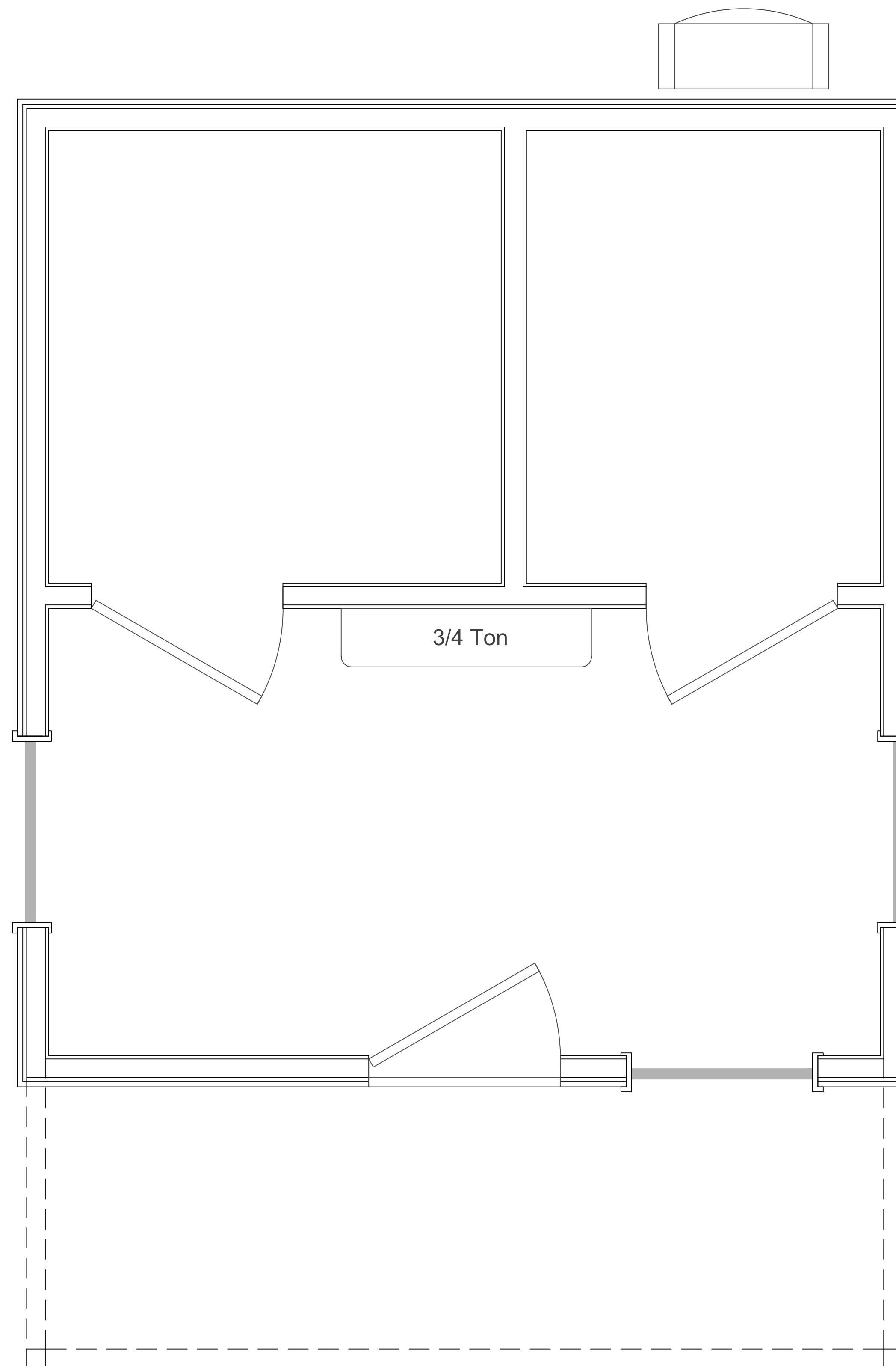
DATE: JULY 22, 2021
CAD DWG FILE: RECYCLE 4-22-21.DWG
DRAWN BY: DEC
DESIGNED BY: DEC

SHEET TITLE:
ELECTRICAL

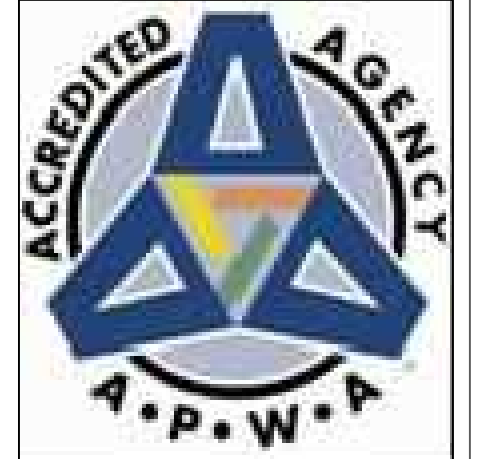
SCALE:
Not to scale

SHEET NO:
E-100

M E C H A N I C L N O T E S		
1		9000 BTU Heat Pump wall mounted head. Daikin or equivalent.
2		Drain install in wall to drain to the outside.
3		Surge Protector to be installed on unit.
4		
5		
6		
7		
8		
9		
10		
11		



All wood framing members and sheathing shall comply with the specifications outlined in the 2018 International Building Code and American Forest & Paper Association's (AF&PA) 2018 Edition of the National Design Specification (NDS) for Wood Construction. Wood framing members for the roof and ceiling shall be minimum #2 Southern Yellow Pine (SYP) and the wall framing shall be minimum stud grade Spruce-Pine-Fir (SPF). See General Note 10 on Advantage Engineering Drawing S1. Sheathing shall be minimum APA rated OSB or plywood, exposure 1.



CONSULTANTS

FACILITY SERVICES PROJECTS

GEORGETOWN COUNTY
BIG DAM SWAMP RECYCLE CENTER

CONSTRUCTION DRAWING

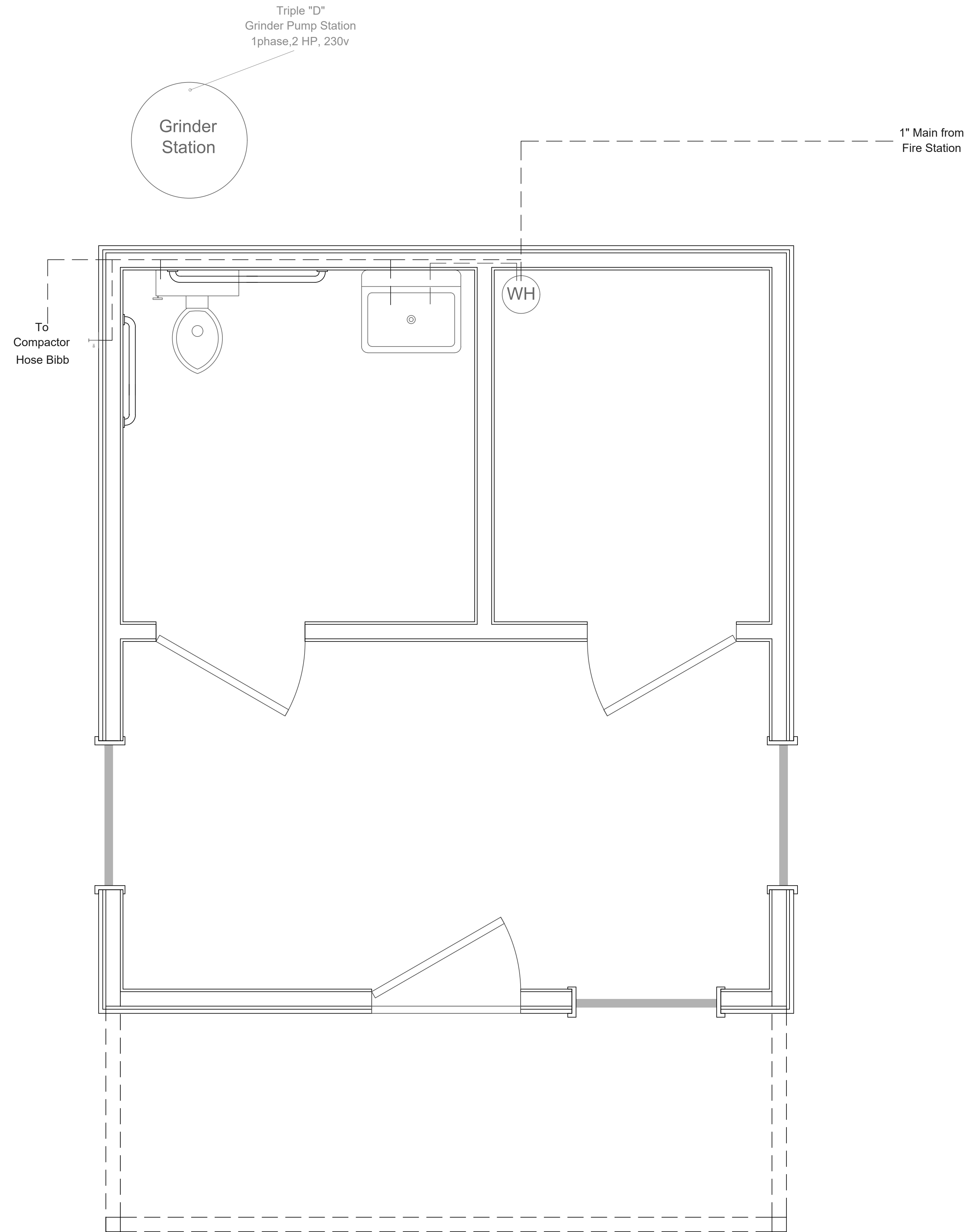
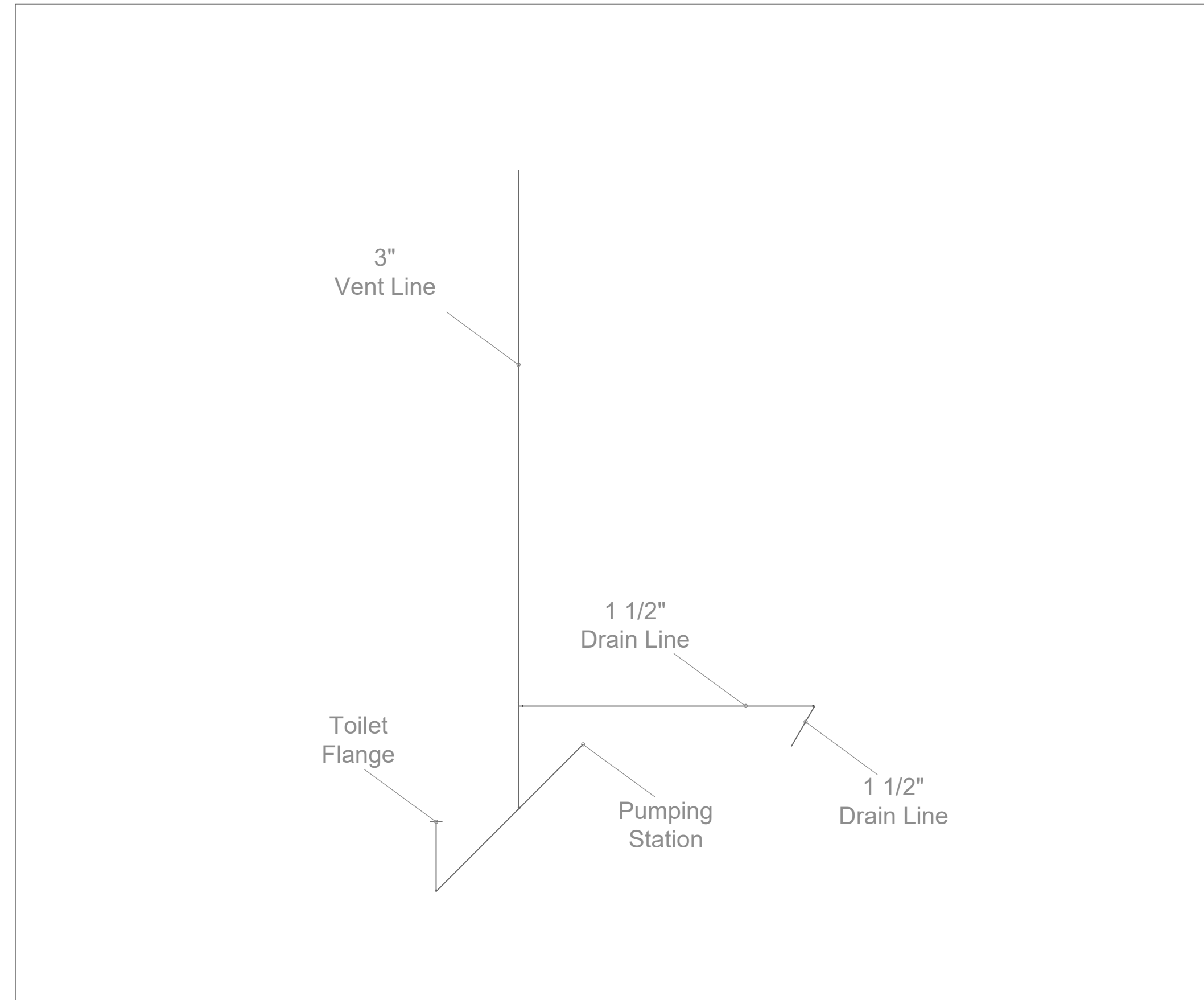
REVISIONS		
MARK	DATE	DESCRIPTION

DATE: JULY 22, 2021
CAD DWG FILE: RECYCLE 4-22-21.DWG
DRAWN BY: DEC
DESIGNED BY: DEC

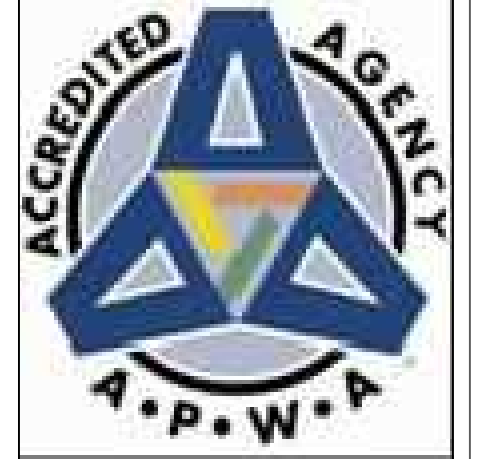
SHEET TITLE:
MECHANICAL

SCALE:
Not to scale

SHEET NO:
M_100



All wood framing members and sheathing shall comply with the specifications outlined in the 2018 International Building Code and American Forest & Paper Association's (AF&PA) 2018 Edition of the National Design Specification (NDS) for Wood Construction. Wood framing members for the roof and ceiling shall be minimum #2 Southern Yellow Pine (SYP) and the wall framing shall be minimum stud grade Spruce-Pine-Fir (SPF). See General Note 10 on Advantage Engineering Drawing S1. Sheathing shall be minimum APA rated OSB or plywood, exposure 1.



CONSULTANTS

FACILITY SERVICES PROJECTS

GEORGETOWN COUNTY
BIG DAM SWAMP RECYCLE CENTER

CONSTRUCTION DRAWING

REVISIONS		
MARK	DATE	DESCRIPTION

DATE: JULY 22, 2021
CAD DWG FILE: RECYCLE 4-22-21.DWG
DRAWN BY: DEC
DESIGNED BY: DEC

SHEET TITLE:

PLUMBING

SCALE:

Not to scale

SHEET NO:

E-100



STRUCTURAL DESIGN

PARTIALLY ENCLOSED (UTILITY) BUILDING

**MAXIMUM 30'-0" WIDE X 16'- 0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

**2 October 2020
Revision 0
M&A Project No. 20198S**

Prepared for:





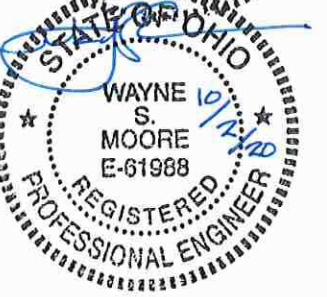
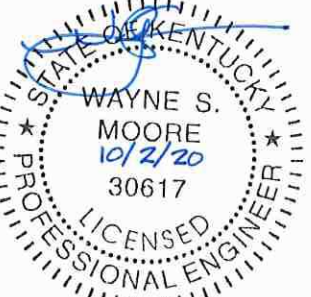
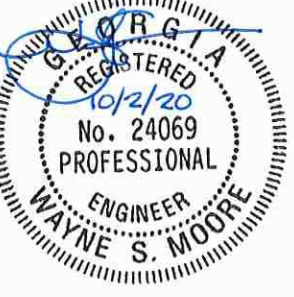
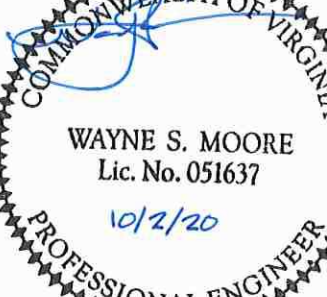

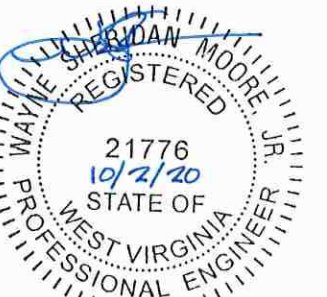


**Custom Built Structures, Inc.
1124 N. South Street
Mt. Airy, NC 27030**

Prepared by:

**Moore and Associates Engineering and Consulting, Inc.
1009 East Avenue
North Augusta, SC 29841**

**401 S. Main Street, Suite 200
Mt. Airy, NC 27030**



MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 20198S

SHT. 1

DWG. NO: SK-2

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 5A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET 6	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 6A	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER)
SHEET 6B	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (FOR WIND SPEEDS \leq 130 MPH)
SHEET 6C	COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) (FOR WIND SPEEDS \leq 130 MPH)
SHEET 7	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
SHEET 7A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE RAFTER)
SHEET 8	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 8A	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER)
SHEET 8B	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) (FOR WIND SPEEDS \leq 130 MPH)
SHEET 8C	COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) (FOR WIND SPEEDS \leq 130 MPH)
SHEET 9	BASE RAIL ANCHORAGE OPTIONS
SHEET 9A	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE RAFTER)
SHEET 12	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET 14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14A	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 15	LEAN-TO OPTIONS (BOW EAVE RAFTER)
SHEET 16	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION (BOX EAVE RAFTER)
SHEET 17	SIDE WALL AND END WALL HEADER OPTIONS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" UTILITY STRUCTURE		
	CHECKED BY: PDH			
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20198S
	CLIENT: CBS	SHT. 2	DWG. NO: SK-2	REV: 0

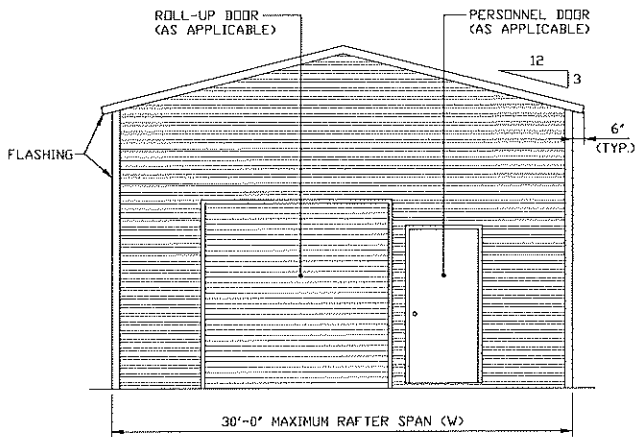
INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT OPEN UTILITY STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2012 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 45 PSF
 - = 30 PSF WITH U-CHANNEL PEAK BRACE (W ≤ 24'-0")

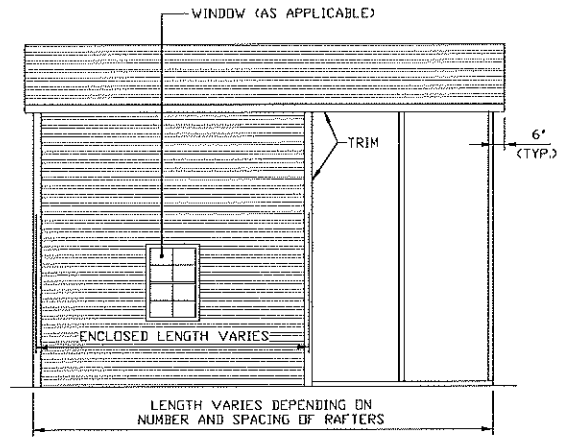
NOTE: UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED.
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) ≤ 145 MPH (NOMINAL WIND SPEED ≤ 112 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4" x 2 1/4" - 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10 INCHES.
11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R = 3.25
 - S_{DS} = 2.039 g
 - S_{D1} = 1.258 g
 - I_E = 1.0
 - V = C_SW

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" UTILITY STRUCTURE		
	CHECKED BY: PDH			
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20198S
	CLIENT: CBS	SHT. 3	DWG. NO: SK-2	REV: 0

BOX EAVE FRAME RAFTER STRUCTURE

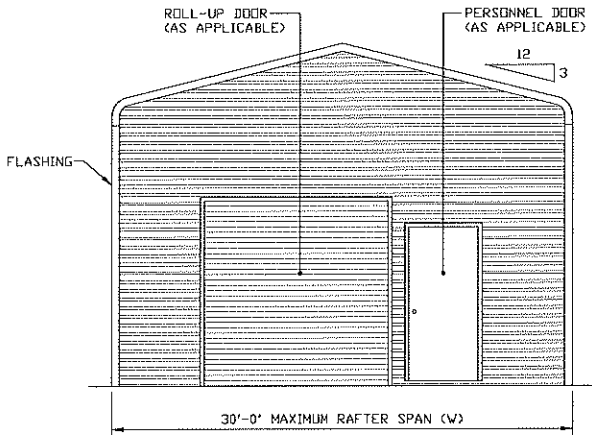


TYPICAL END ELEVATION
SCALE: NTS

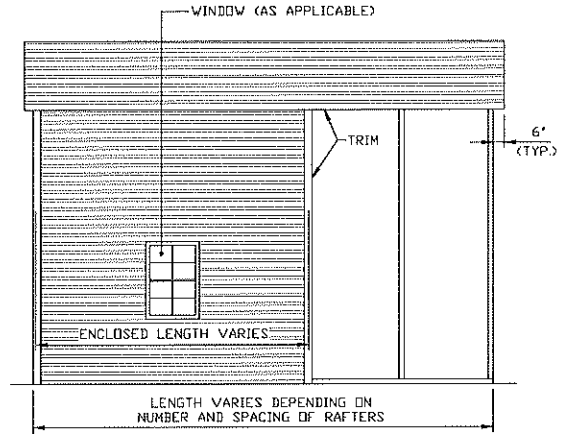


TYPICAL SIDE ELEVATION
SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

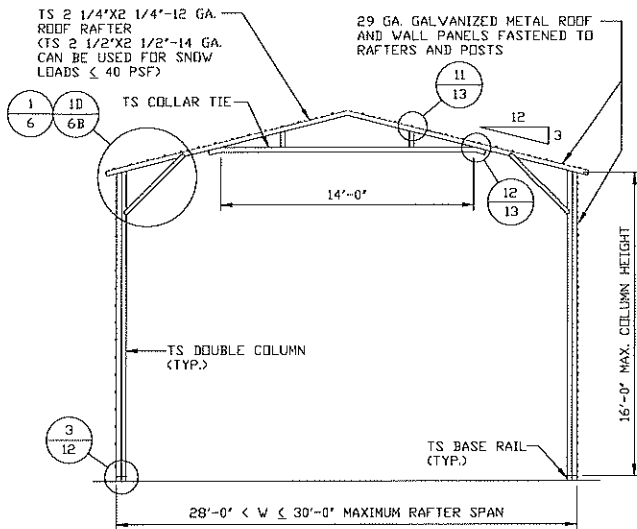
**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: CBS

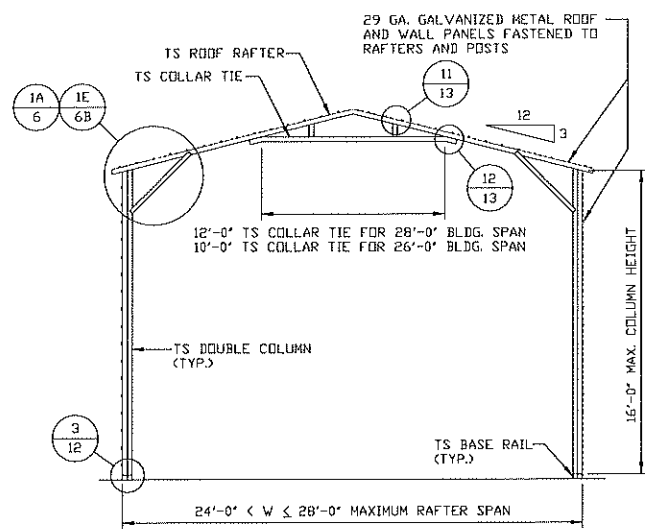
CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

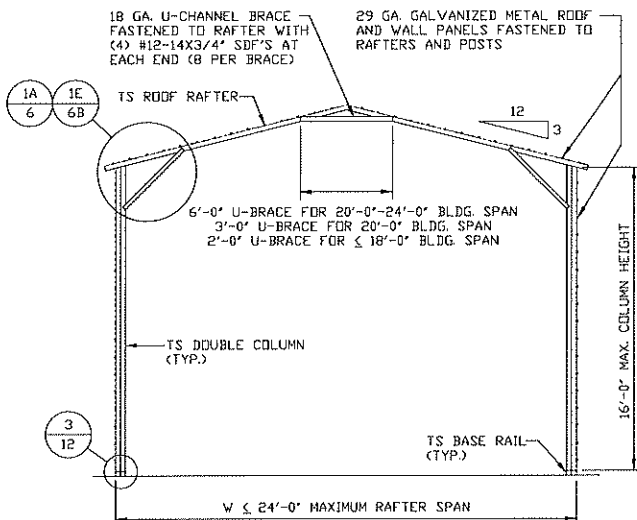
DATE: 10-2-20 SCALE: NTS JOB NO: 20198S
SHT. 4 DWG. NO: SK-2 REV: 0



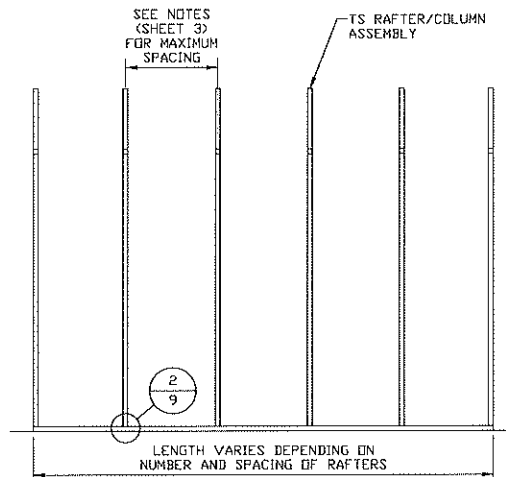
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

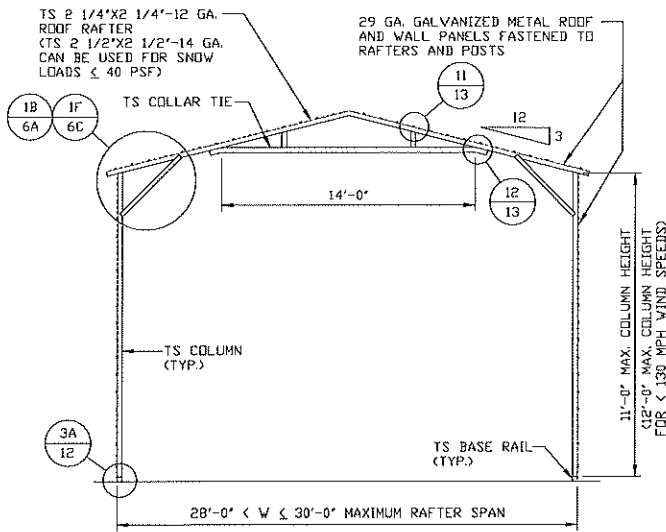
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

PROJECT MGR: WSM
CLIENT: CBS

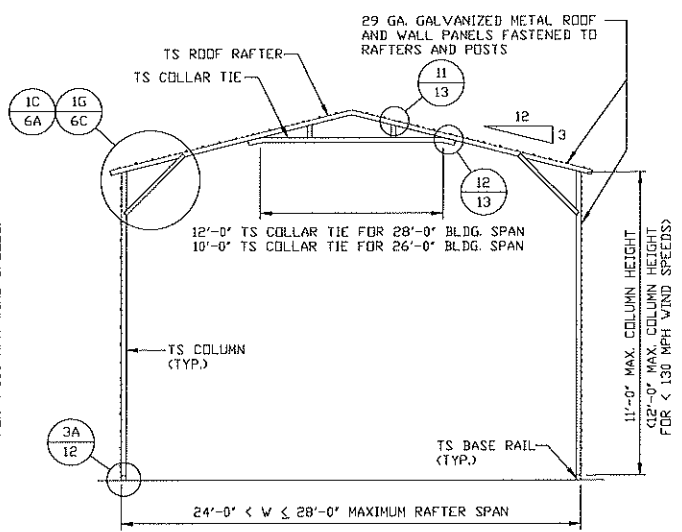
DATE: 10-2-20
SHT. 5

SCALE: NTS
DWG. NO: SK-2

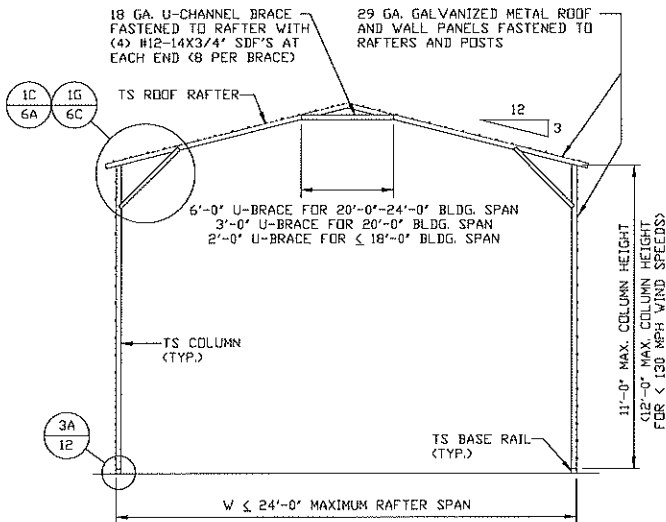
JOB NO: 20198S
REV: 0



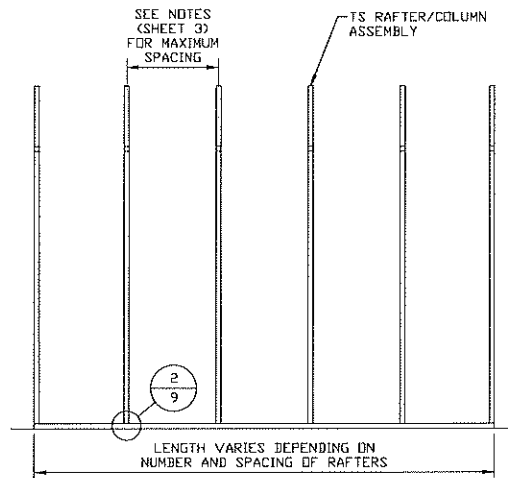
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

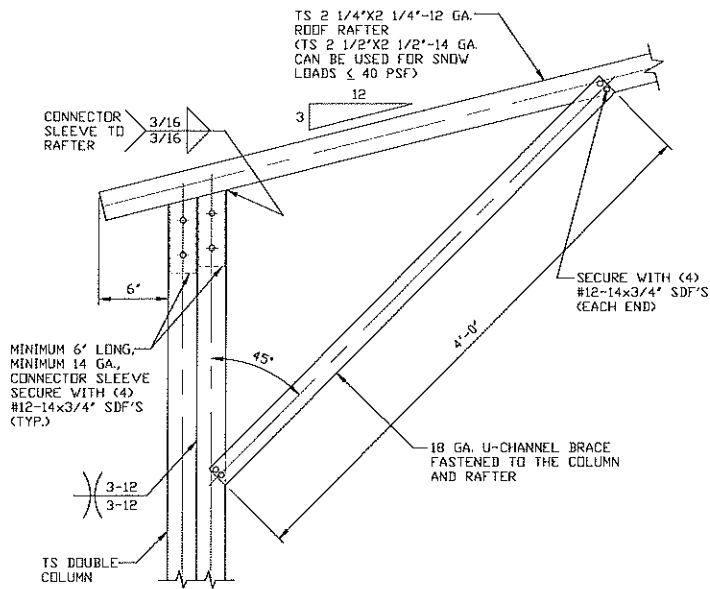
JOB NO: 2019BS

SHT. 5A

DWG. NO: SK-2

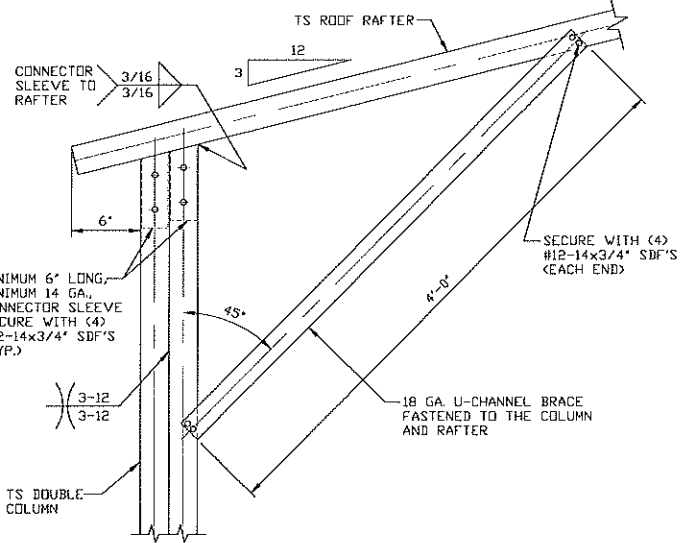
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



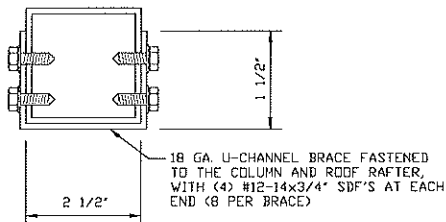
1 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"

SCALE: NTS



1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

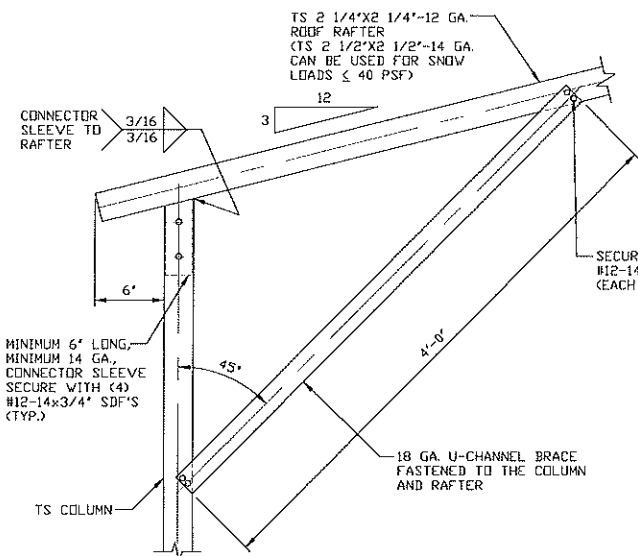
JOB NO: 20198S

SHT. 6

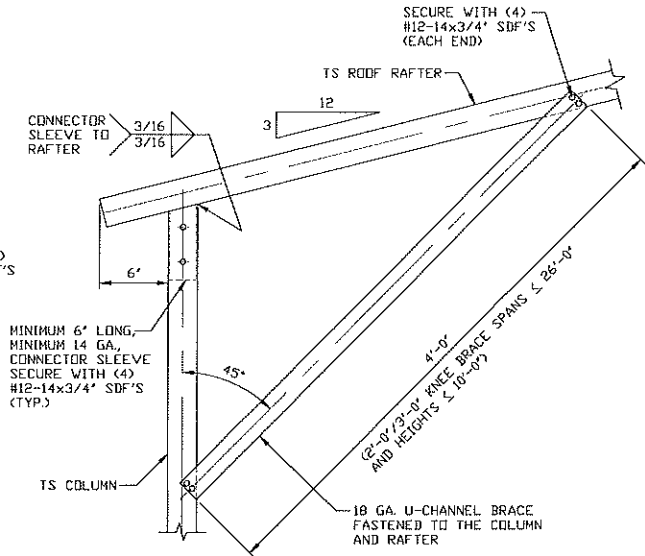
DWG. NO: SK-2

REV: 0

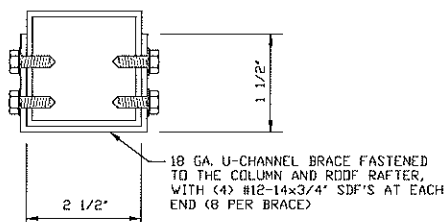
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"
SCALE: NTS



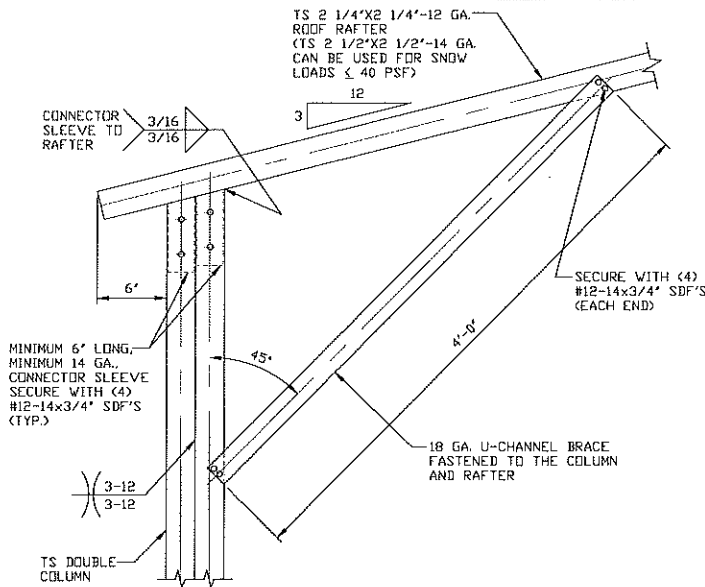
1C BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG		CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0"X16'-0" UTILITY STRUCTURE	
	CHECKED BY: PDH			
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20198S
	CLIENT: CBS	SHT. 6A	DWG. NO: SK-2	REV: 0

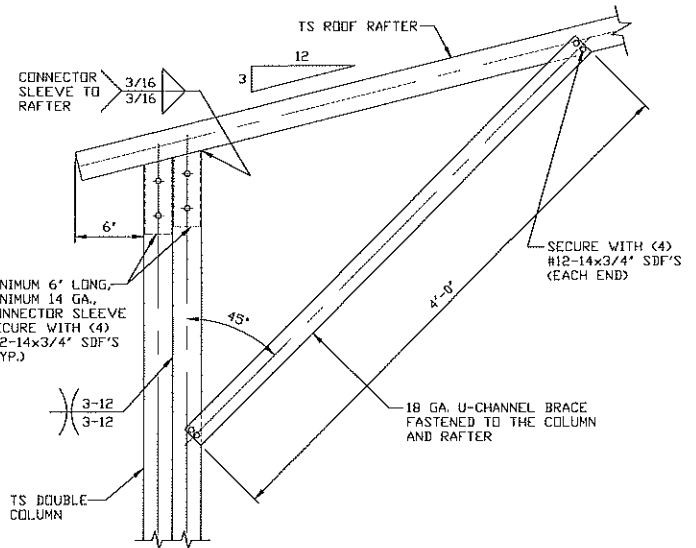
FOR WIND SPEEDS ≤ 130 MPH



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"

1D

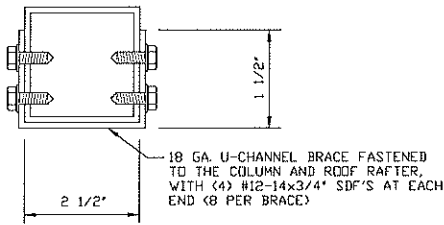
SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"

1E

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 2019BS

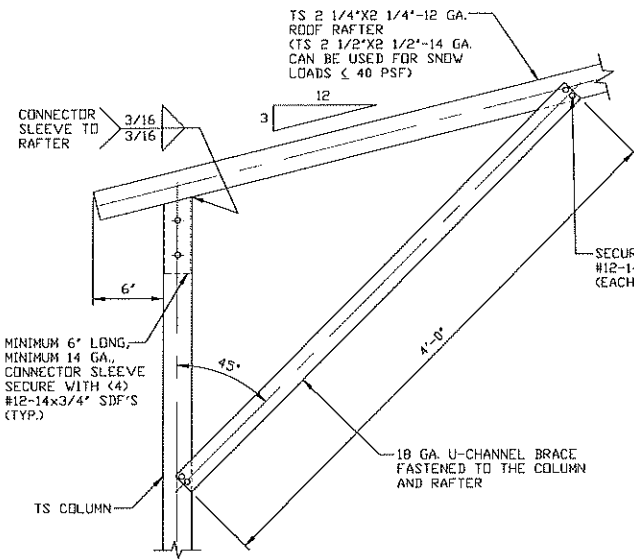
SHT. 6B

DWG. NO: SK-2

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

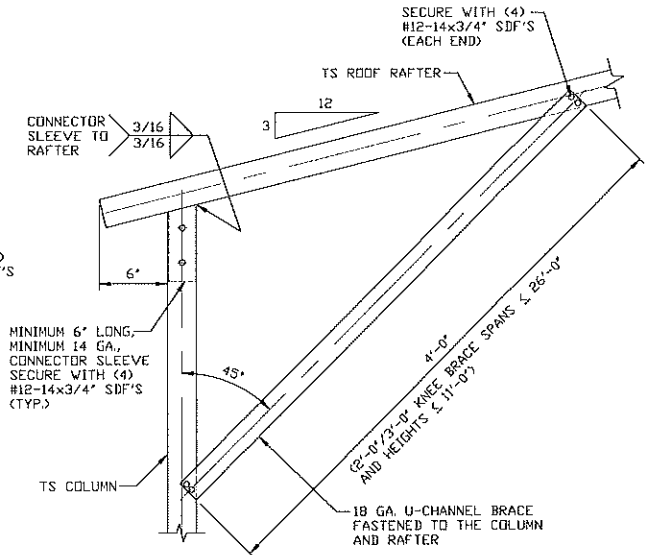
FOR WIND SPEEDS ≤ 130 MPH



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1F

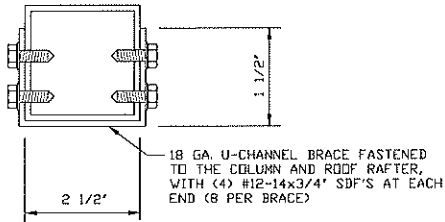
SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1G

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"X16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

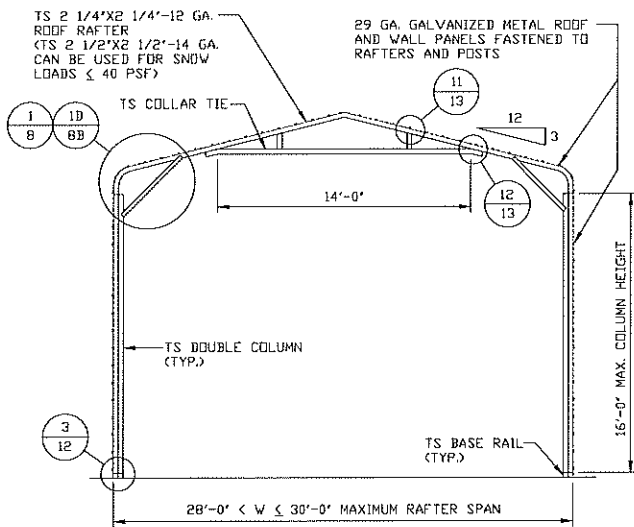
JOB NO: 20198S

SHT. 6C

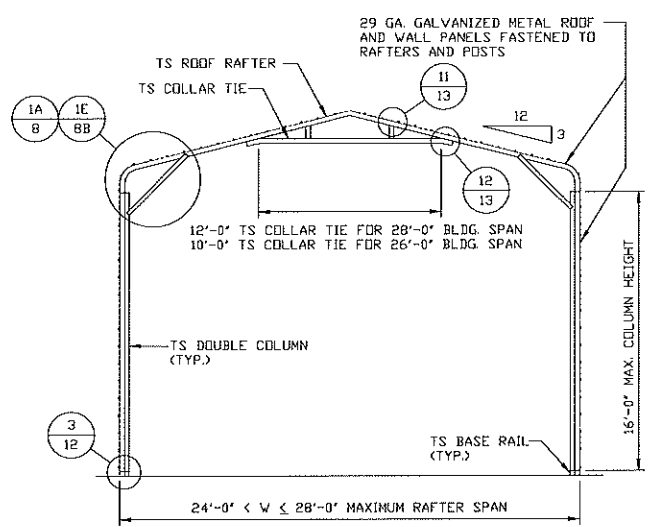
DWG. NO: SK-2

REV: 0

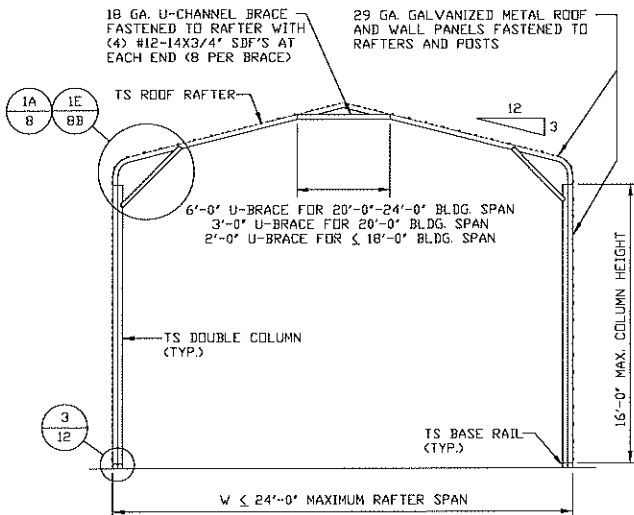
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



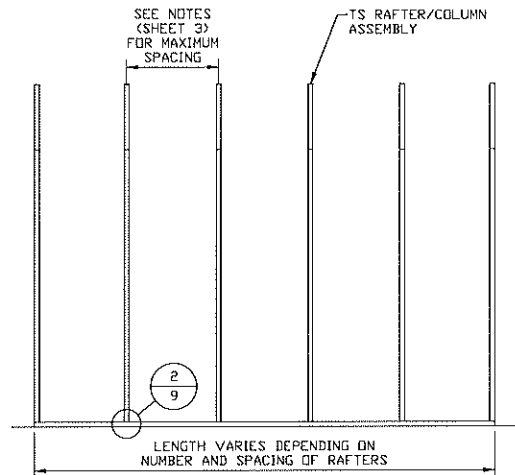
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 7

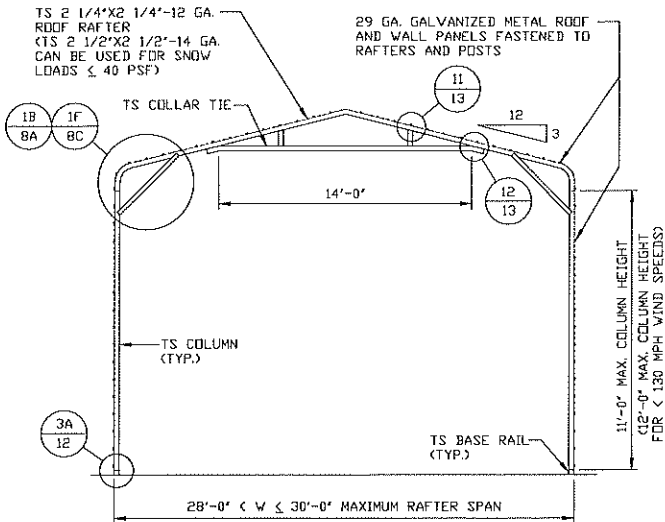
SCALE: NTS

DWG. NO: SK-2

JOB NO: 2019BS

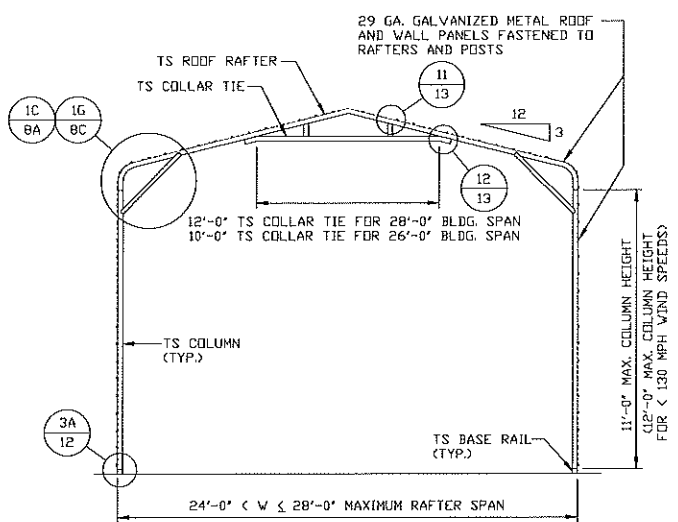
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



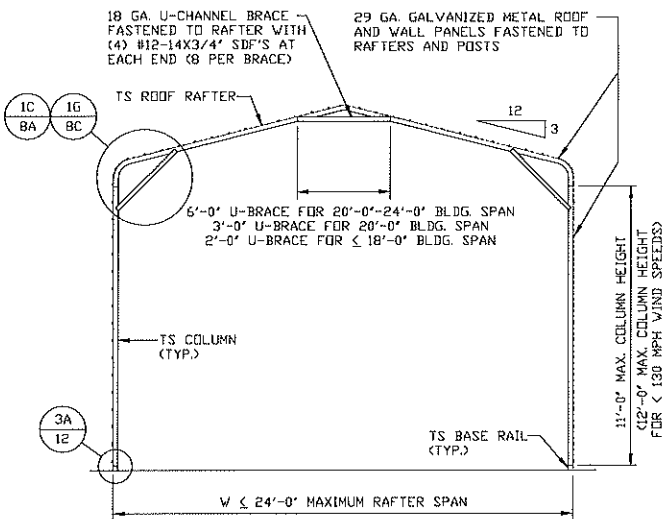
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



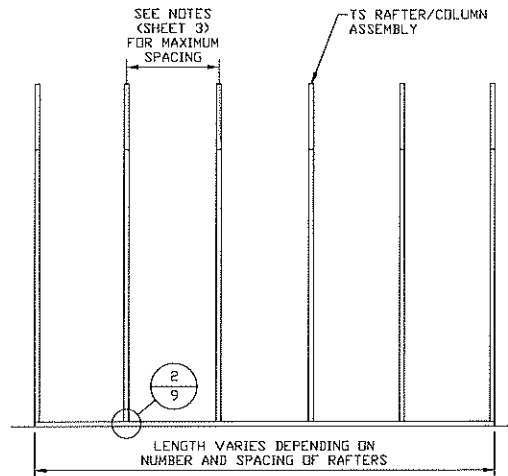
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

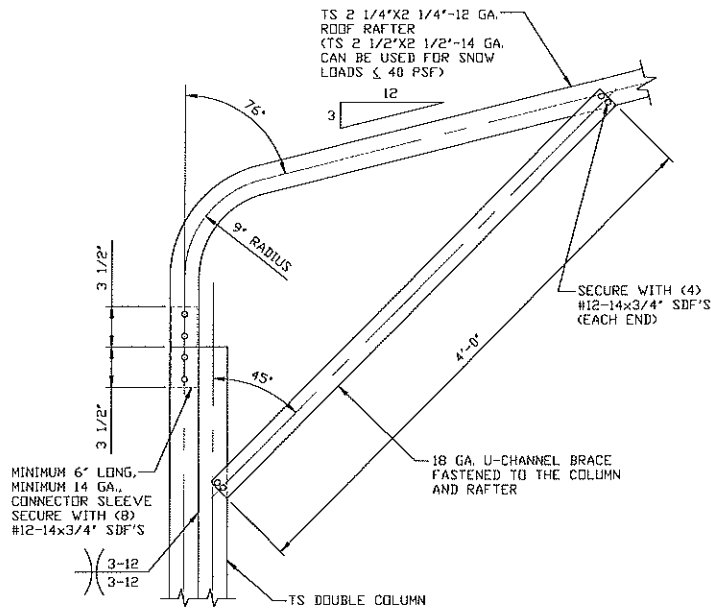
JOB NO: 20198S

SHT. 7A

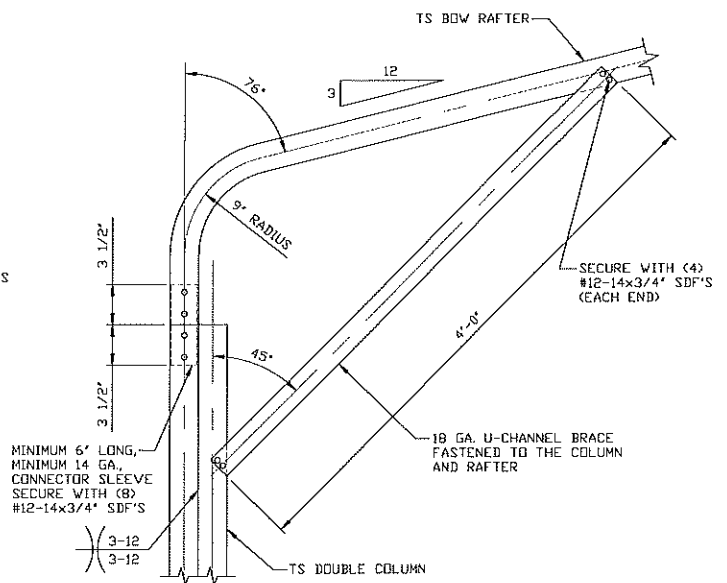
DWG. NO: SK-2

REV: 0

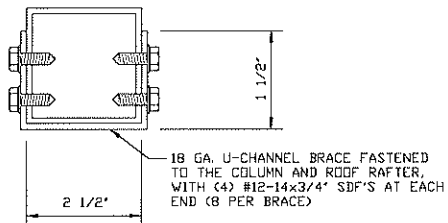
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



1
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"
 SCALE: NTS



1A
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO ≤ 16'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

**MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
 1124 N. SOUTH STREET
 MOUNT AIRY, NC 27030
 30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

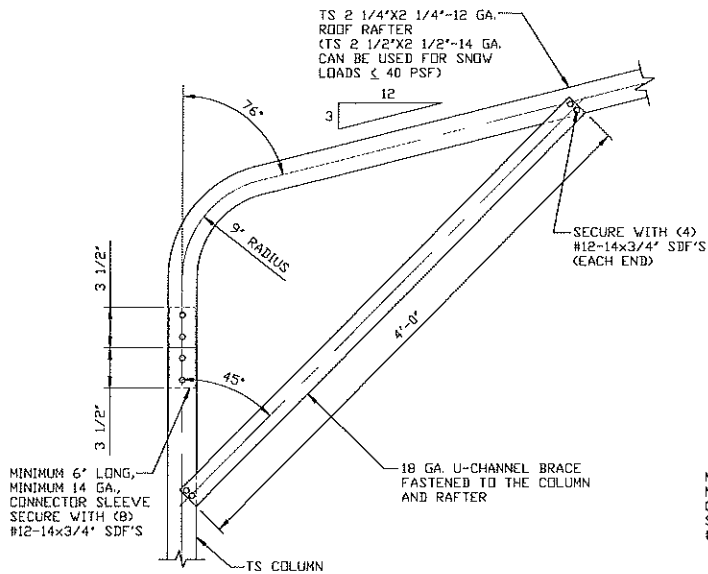
JOB NO: 20198S

SHT. 8

DWG. NO: SK-2

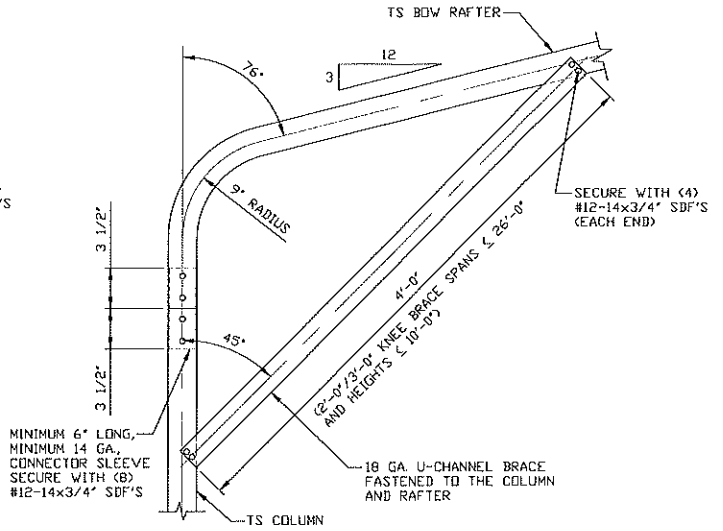
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.



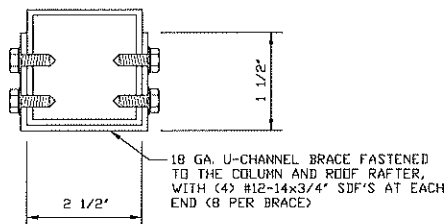
1B BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\le 11'-0''$

SCALE: NTS



1C BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\le 11'-0''$

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"X16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 8A

SCALE: NTS

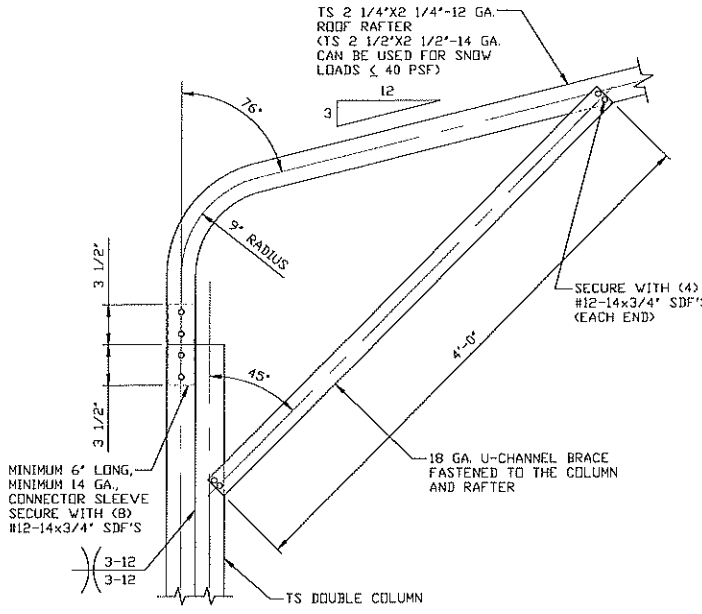
DWG. NO: SK-2

JOB NO: 20198S

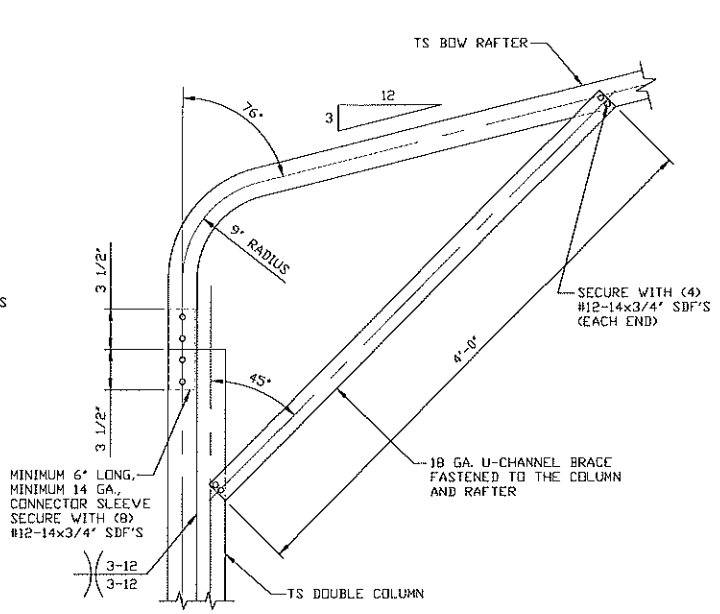
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

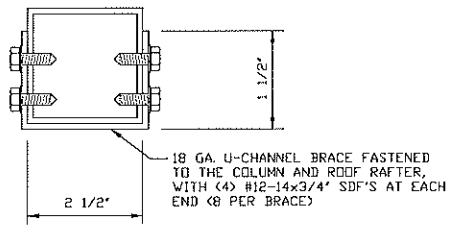
FOR WIND SPEEDS ≤ 130 MPH



1D **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS



1E **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS

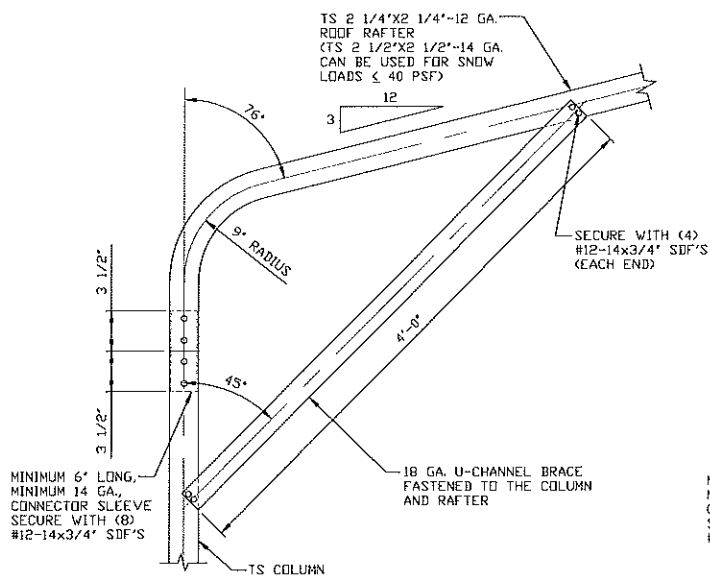


BRACE SECTION
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0"X16'-0" UTILITY STRUCTURE		
	CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20198S	
CLIENT: CBS	SHT. 8B	DWG. NO: SK-2	REV: 0	

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

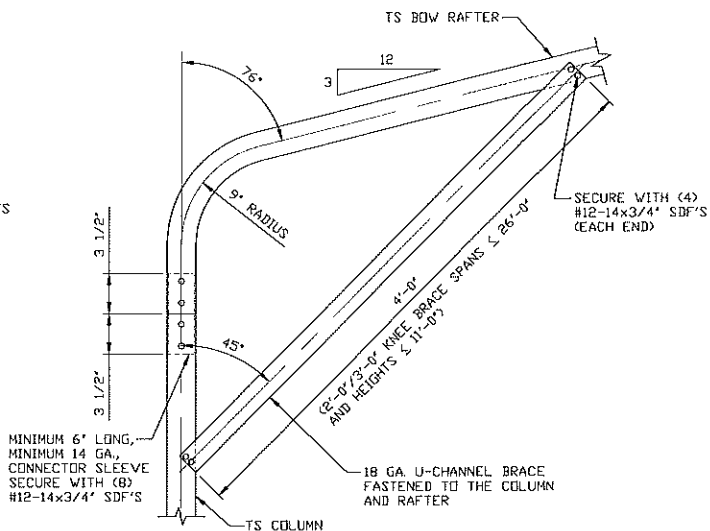
FOR WIND SPEEDS ≤ 130 MPH



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1F

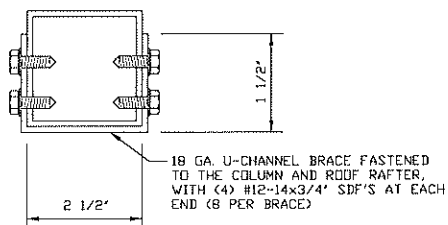
SCALE: NTS



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1G

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"X16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 8C

SCALE: NTS

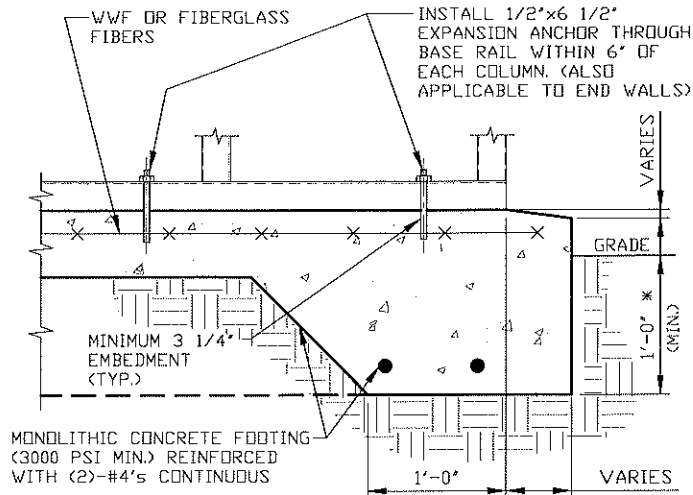
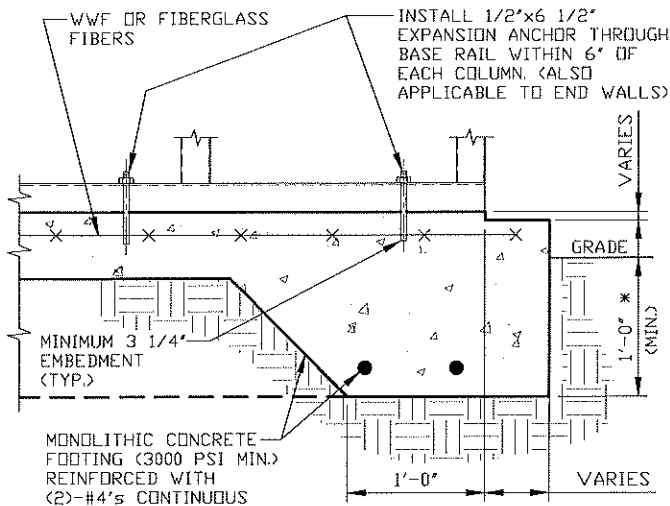
DWG. NO: SK-2

JOB NO: 20198S

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

BASE RAIL ANCHORAGE OPTIONS



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL BUILDING CODE AND/OR D REGARDING MINIMUM FROST DEPTH (LENGTH).

2A CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL BUILDING CODE AND/OR D REGARDING MINIMUM FROST DEPTH (LENGTH).

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 20198S

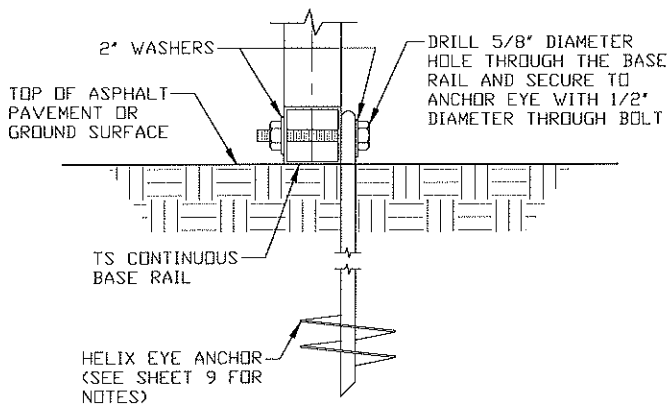
SHT. 9

DWG. NO: SK-2

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

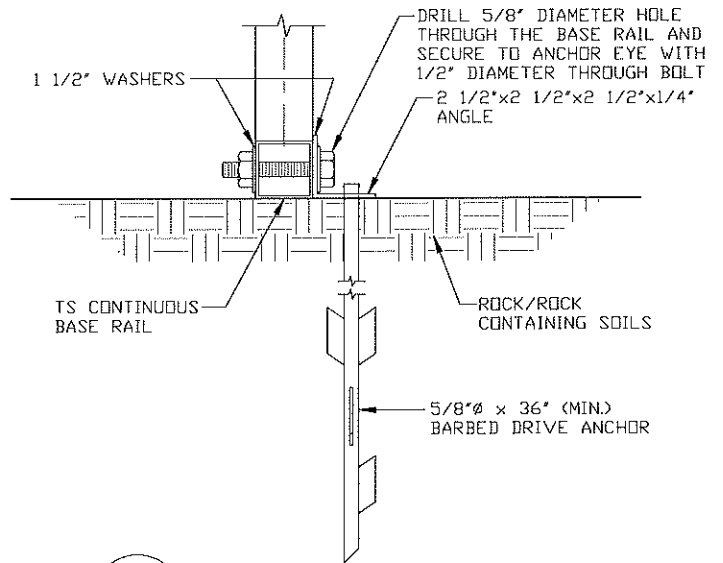
BASE RAIL ANCHORAGE OPTIONS



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
 (CAN BE USED FOR ASPHALT)
 * COORDINATE WITH LOCAL BUILDING
 CODE AND/OR D REGARDING MINIMUM
 FROST DEPTH (LENGTH).



2C

ASPHALT BASE ANCHORAGE

SCALE: NTS
 * COORDINATE WITH LOCAL BUILDING
 CODE AND/OR D REGARDING MINIMUM
 FROST DEPTH (LENGTH).

**MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
 1124 N. SOUTH STREET
 MOUNT AIRY, NC 27030
 30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 9A

SCALE: NTS

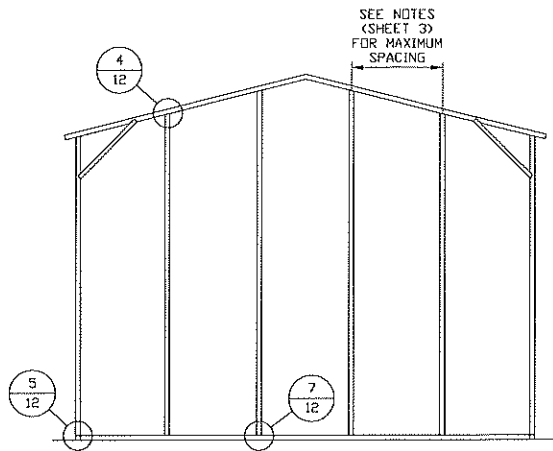
DWG. NO: SK-2

JOB NO: 20198S

REV: 0

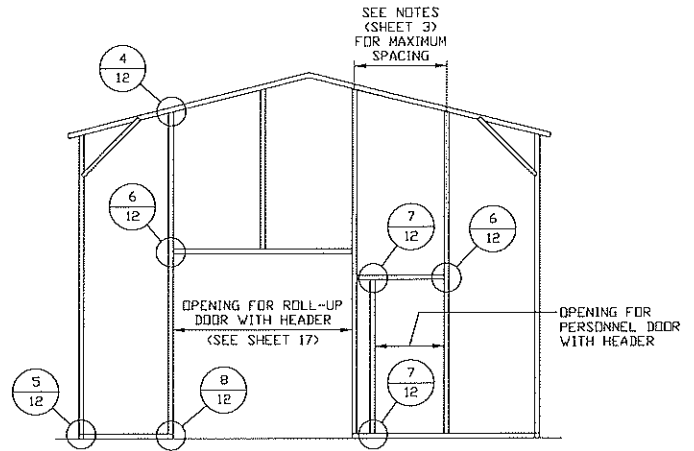
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



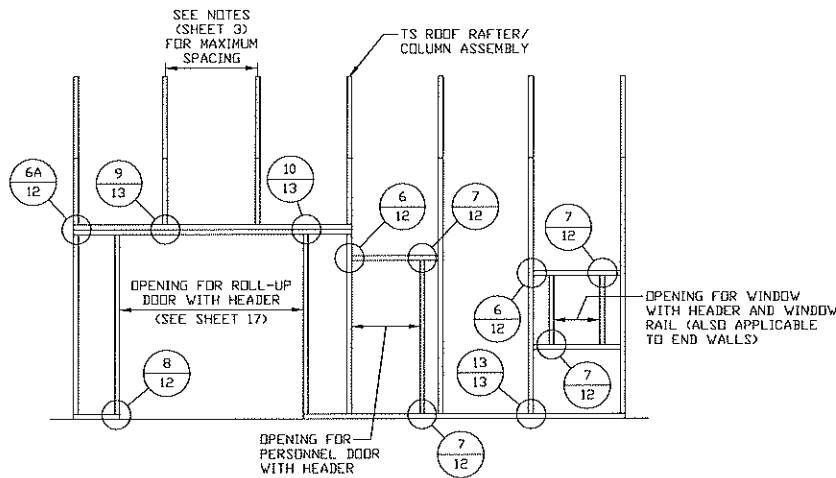
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 10

SCALE: NTS

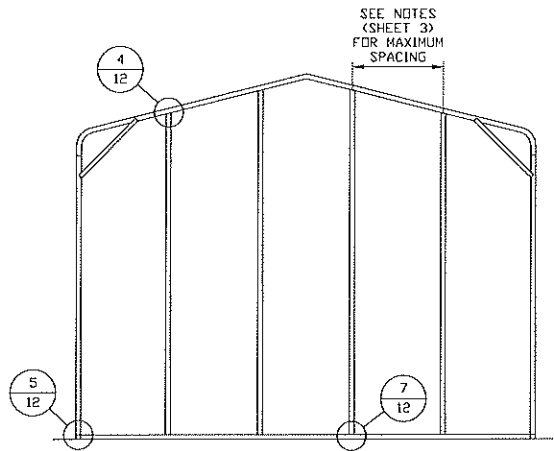
DWG. NO: SK-2

JOB NO: 20190S

REV: 0

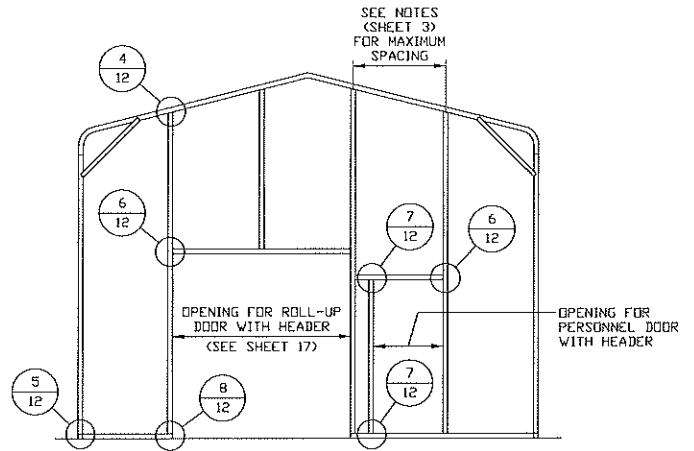
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



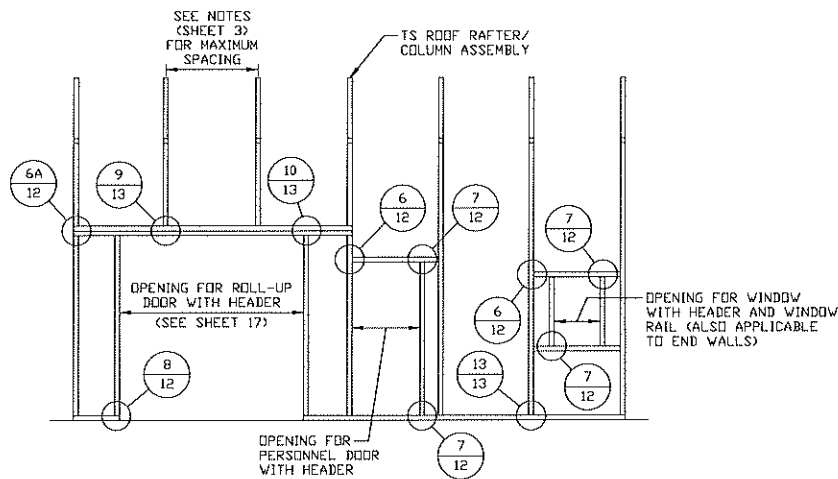
**TYPICAL BOW EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 11

SCALE: NTS

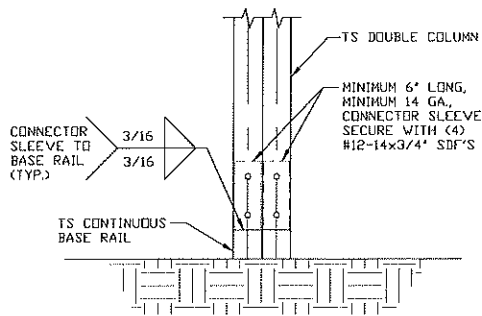
DWG. NO: SK-2

JOB NO: 20198S

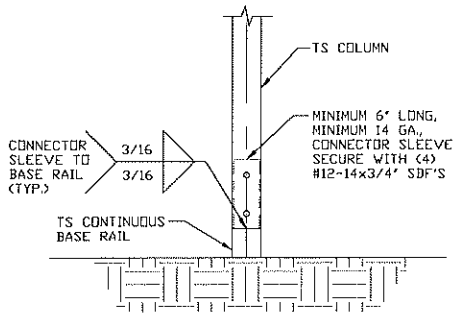
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

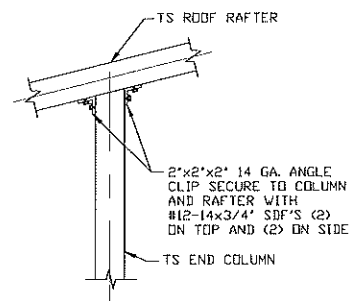
CONNECTION DETAILS



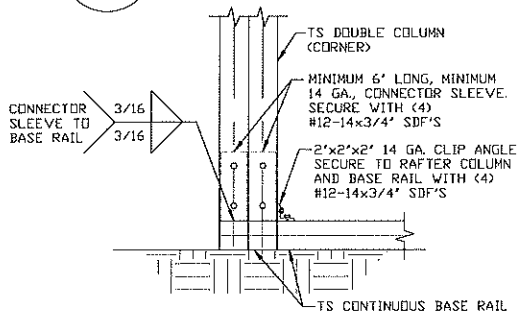
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



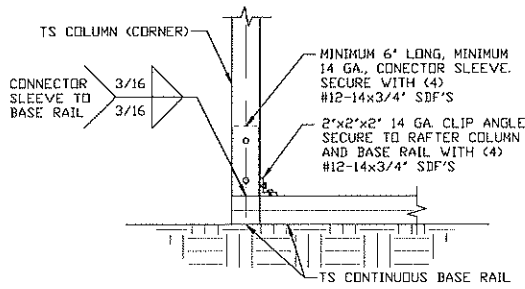
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



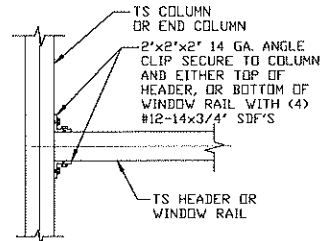
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



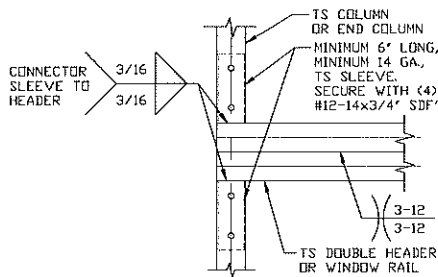
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



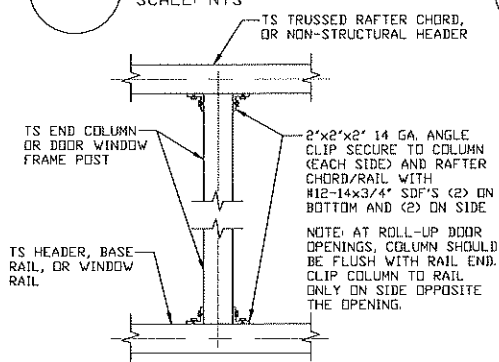
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



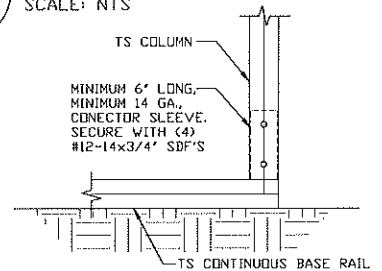
6 COLUMN OR WINDOW RAIL/WALL GIRT TO POST CONNECTION DETAIL
SCALE: NTS



6A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

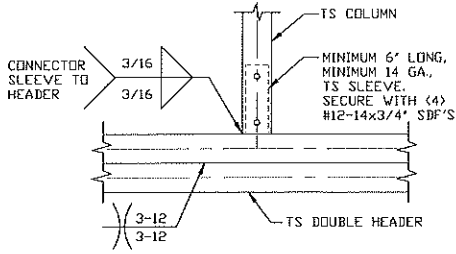
DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"X16'-0" UTILITY STRUCTURE

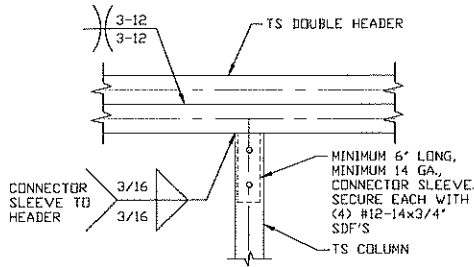
THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

PROJECT MGR: WSM **DATE: 10-2-20** **SCALE: NTS** **JOB NO: 20198S**
CLIENT: CBS **SHT. 12** **DWG. NO: SK-2** **REV: 0**

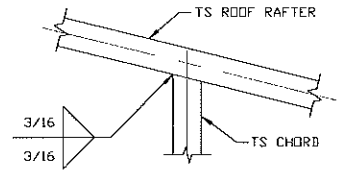
CONNECTION DETAILS



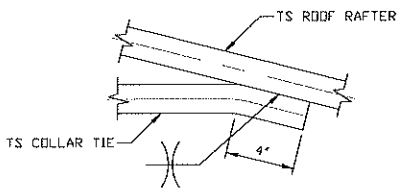
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



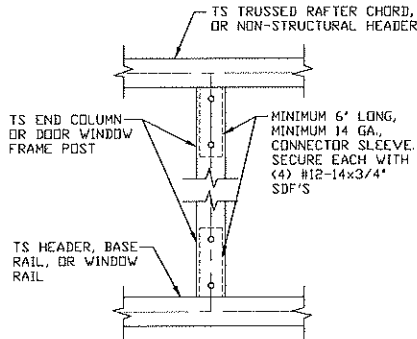
10 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



13 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

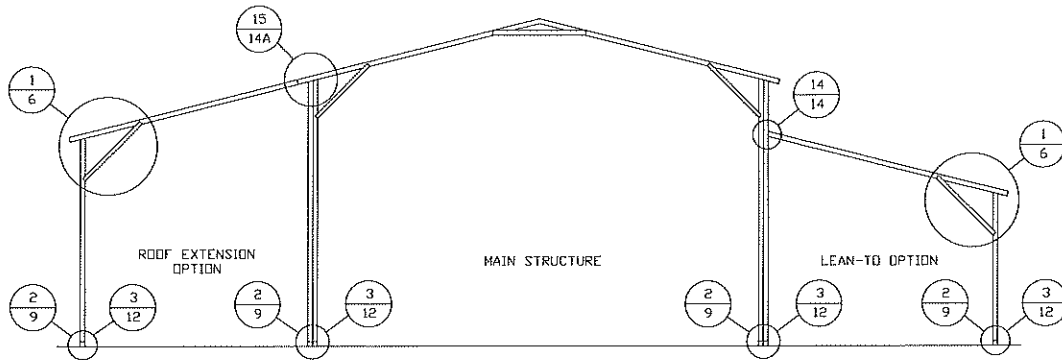
DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

PROJECT MGR: WSM	DATE: 10-2-20	SCALE: NTS	JOB NO: 20190S
CLIENT: CBS	SHT. 13	DWG. NO: SK-2	REV: 0

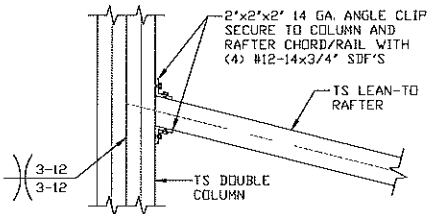
BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

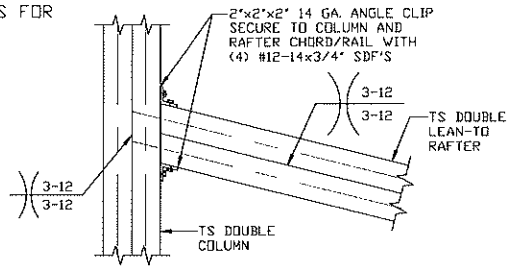
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0" REGARDLESS OF COLUMN HEIGHT. FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



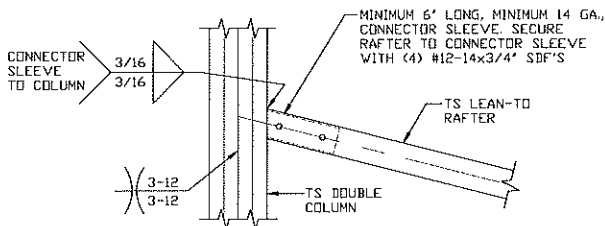
14
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



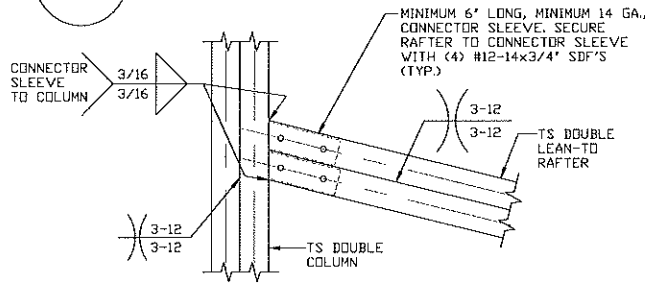
14A
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < \text{TO} \leq 16'-0"$

SCALE: NTS



14B
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



14C
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < \text{TO} \leq 16'-0"$

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 20198S

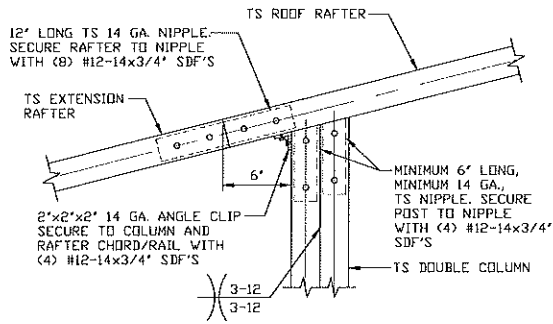
SHT. 14

DWG. NO: SK-2

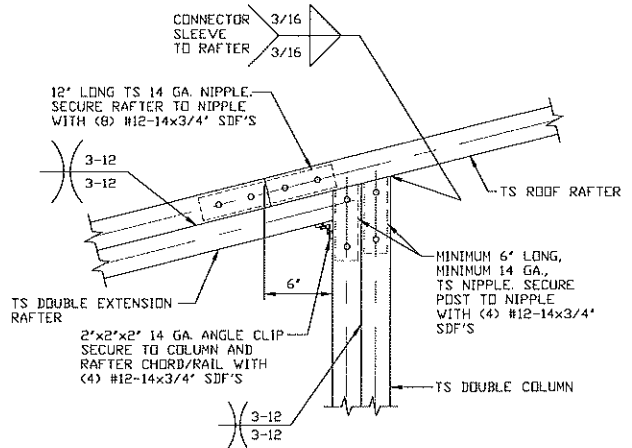
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

BOX EAVE RAFTER LEAN-TO OPTIONS



15 SIDE EXTENSION RAFTER/COLUMN
 DETAIL FOR SPANS $\leq 12'-0''$
 SCALE: NTS



15A SIDE EXTENSION RAFTER/COLUMN
 DETAIL FOR SPANS $12'-0'' < \text{TO} \leq 16'-0''$
 SCALE: NTS

**MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
 1124 N. SOUTH STREET
 MOUNT AIRY, NC 27030
 30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 14A

SCALE: NTS

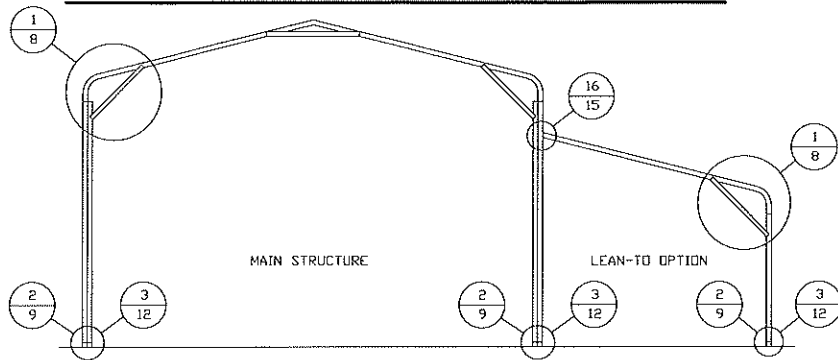
DWG. NO: SK-2

JOB NO: 20198S

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

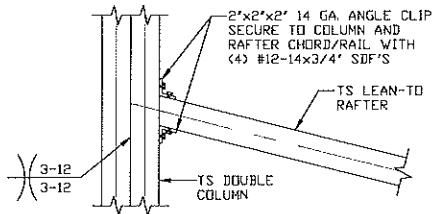
BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

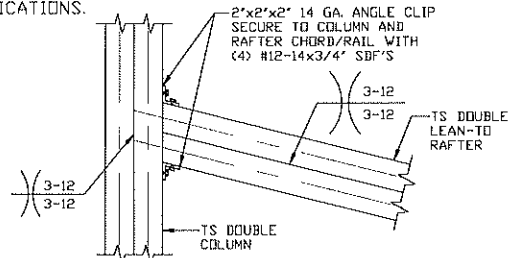
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0" REGARDLESS OF COLUMN HEIGHT.
FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



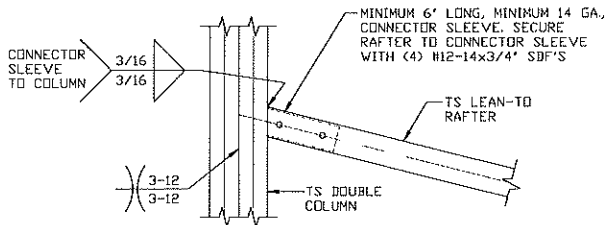
16 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



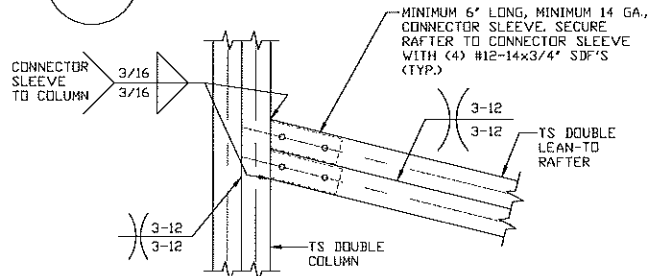
16A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < TO \leq 16'-0"$

SCALE: NTS



16B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



16C LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < TO \leq 16'-0"$

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SCALE: NTS

JDB NO: 2019BS

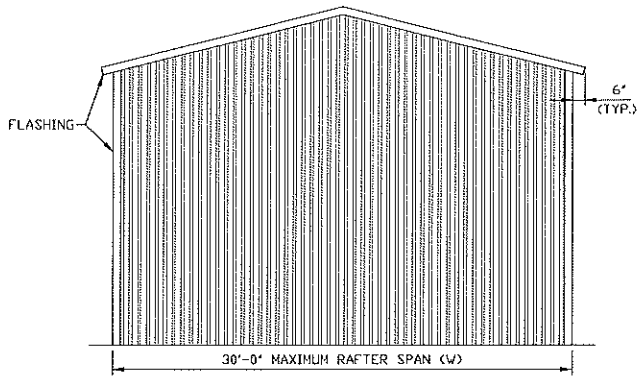
SHT. 15

DWG. NO: SK-2

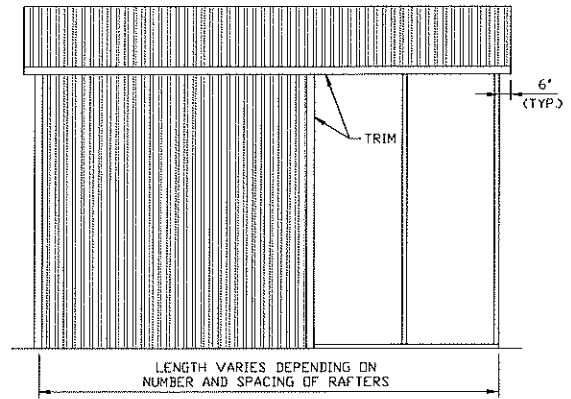
REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

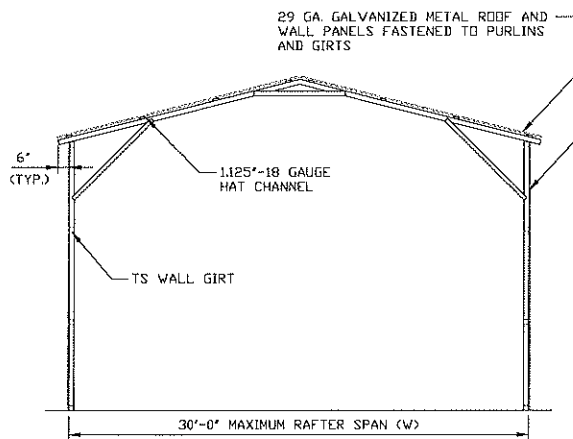
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



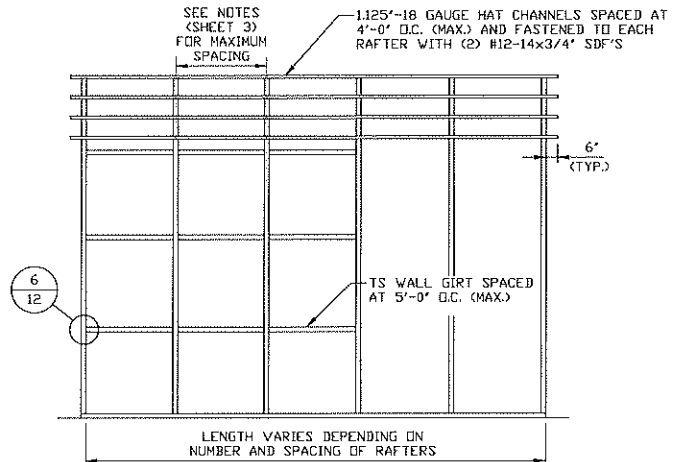
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



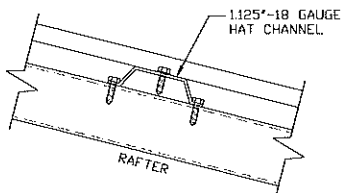
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**
SCALE: NTS



**TYPICAL FRAMING SECTION VERTICAL
ROOF/SIDING OPTION WITH TS GIRTS**
SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

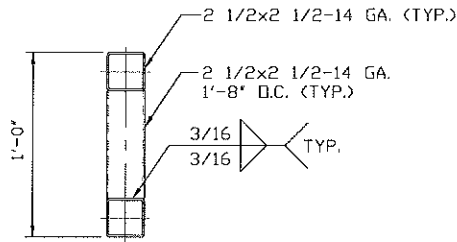
PROJECT MGR: WSM
CLIENT: CBS

DATE: 10-2-20
SHT. 16

SCALE: NTS
DWG. NO: SK-2

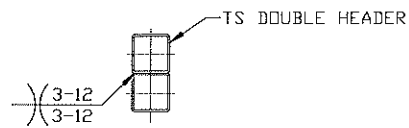
JOB NO: 201908
REV: 0

SIDE WALL HEADER OPTIONS



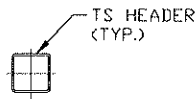
**HEADER DETAIL FOR SIDE
WALL DOOR OPENINGS
10'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS
(12'-0" < LENGTHS ≤ 16'-0"
FOR SNOW LOADS ≤ 35 PSF)



**HEADER DETAIL FOR SIDE
WALL DOOR OPENINGS
6'-0" < LENGTH ≤ 10'-0"**

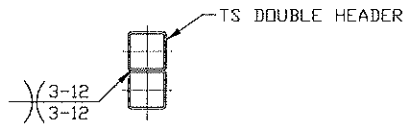
SCALE: NTS
(6'-0" < LENGTHS ≤ 12'-0"
FOR SNOW LOADS ≤ 35 PSF)



**HEADER DETAIL FOR SIDE
WALL DOOR OPENINGS ≤ 6'-0"**

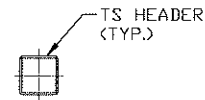
SCALE: NTS

END WALL HEADER OPTIONS



**HEADER DETAIL FOR SIDE
WALL DOOR OPENINGS
12'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR END
WALL DOOR OPENINGS ≤ 12'-0"**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" UTILITY STRUCTURE

DATE: 10-2-20

SHT. 17

SCALE: NTS

DWG. NO: SK-2

JOB NO: 20198S

REV: 0

THIS DOCUMENT IS THE PROPERTY OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.