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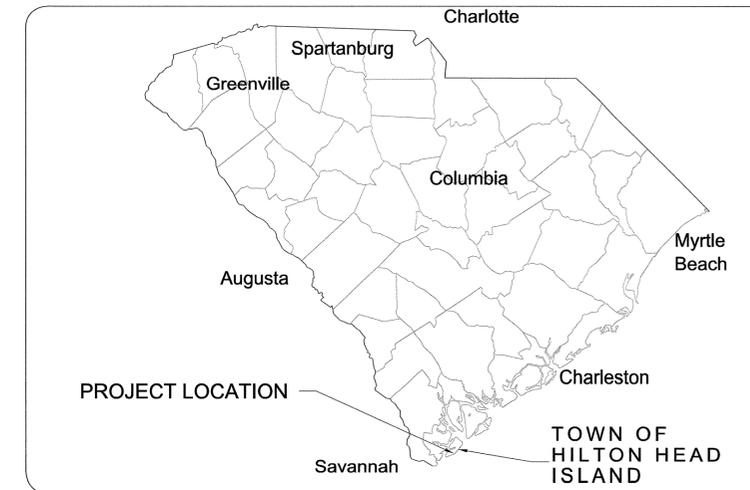
SHEET NO.	TOTAL SHEETS
1	30

TOWN OF HILTON HEAD ISLAND, S.C.



ROADWAY AND DRAINAGE IMPROVEMENTS

BLAZING STAR LANE



LOCATION MAP

N.T.S.

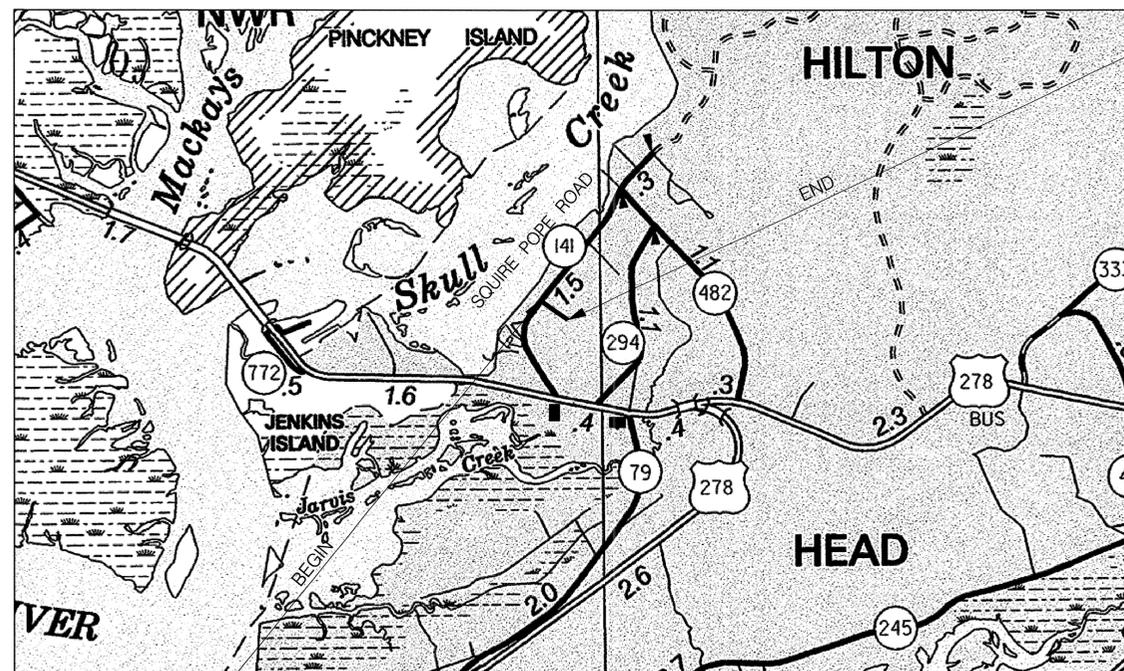
SURVEY STA. 16+27.56 END
PROJECT BLAZING STAR LANE

Note: Before any clearing, tree removal, soil removal, or any other site work begins, Town staff must inspect the site to ensure the required erosion control fence has been installed correctly. Please contact Anne Cyran, Senior Planner, at 843-341-4697 or at annec@hiltonheadislandsc.gov to schedule the pre-clear inspection. Please allow for two full business days for the pre-clear inspection and any required re-inspections.

Design Reference for these plans is the:
2001
AASHTO "A Policy on Geometric Design of Highways and Streets"

Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	___ YES	<input checked="" type="checkbox"/> NO	
NEPA DOCUMENT	___ YES	<input checked="" type="checkbox"/> NO	
401 CERTIFICATION	___ YES	<input checked="" type="checkbox"/> NO	
OCRM CAP	<input checked="" type="checkbox"/> YES	___ NO	
NAVIGABLE WATERS	___ SC	___ USCG	___ USACE <input checked="" type="checkbox"/> NA



LAYOUT
NOT TO SCALE

SURVEY STA. 10+10.39 BEGIN
PROJECT BLAZING STAR LANE

PROPOSED PROJECT	TOTAL
NET LENGTH OF ROADWAY	0.117 MILES
NET LENGTH OF PROJECT	0.117 MILES
GROSS LENGTH OF PROJECT	0.117 MILES

EQUALITIES IN STATIONING
NONE

NOTE:
EXCEPT AS MAY BE OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF FINAL RFP.

The point of contact for this project is:
James W. Cook, E.I., CPESC
Town of Hilton Head Island
One Town Center Court
Hilton Head Island, SC 29928
Office 843-341-4778

Developer: Town of Hilton Head Island
One Town Center Court
Hilton Head Island, SC 29928

Owner: Town of Hilton Head Island
One Town Center Court
Hilton Head Island, SC 29928

NPDES PERMIT INFORMATION	
DISTURBED AREA =	0.40 ACRES
PERMITTED AREA =	0.90 ACRES

APPROXIMATE LOCATION OF ROADWAY IS	
BEGIN	
LATITUDE	32° 13' 22.92" N
LONGITUDE	80° 45' 21.68" W
END	
LATITUDE	32° 13' 20.39" N
LONGITUDE	80° 45' 19.31" W

Hydraulic and NPDES Design provided by:

Designs may be obtained from the SCDOT Regional Production Group



THE PRESENCE, SIZE AND LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION PLANS AND VISIBLE ABOVE GROUND STRUCTURES. THE ACTUAL SIZE, LOCATION AND TYPE OF MATERIAL MAY VARY UPON EXCAVATION. THERE MAY BE OTHER EXISTING UTILITIES ON THIS SITE NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.

ESTIMATED TRAFFIC DATA		
NA	ADT	NA
NA	ADT	NA
TRUCKS	NA %	RESIDENTIAL

MAY 2016



PLANS PREPARED BY:
INFRASTRUCTURE CONSULTING & ENGINEERING
1691 TURNBULL AVENUE
CHARLESTON, S.C. 29405
PH. (843) 266-3581
<http://www.ice-eng.com>

ENGINEER OF RECORD



FOR CONSTRUCTION: *Aaron O. Jizile* 5/25/16
DATE

GENERAL NOTES

THE CONTRACTOR SHALL SUBMIT ALL SITE CONSTRUCTION SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. ANY REQUESTS FOR INFORMATION (RFI), SUBSTITUTIONS, OR REVISIONS SHALL BE REQUESTED IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO MODIFICATION.

THE CONTRACTOR SHALL SUBMIT PROPER NOTIFICATION FOR REQUIRED INSPECTIONS. IN NO CASE SHALL NOTIFICATION BE LESS THAN 24 HOURS.

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

PROPOSED ELEVATIONS:
THE CONTRACTOR SHALL SET AND ADJUST PROPOSED ELEVATIONS AS NECESSARY TO ENSURE PROPER LONGITUDINAL GRADE FOR DRAINAGE.

DRAINAGE STRUCTURES:
GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED, TO ACCOMMODATE UNFORESEEN CONDITIONS. STATIONS, OFFSETS AND ELEVATIONS REFER TO THE CENTER OF DROP INLETS, MANHOLES AND JUNCTION BOXES, AND THE MIDPOINT OF THE LIP FOR CATCH BASINS.

BARRICADES, DANGER AND WARNING SIGNS:
ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN BARRICADES, SUITABLE AND SUFFICIENT LIGHTS, DANGER SIGNALS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF THE WORK AND SAFETY OF THE PUBLIC. LANES CLOSED TO TRAFFIC SHALL BE PROTECTED BY EFFECTIVE BARRICADES, LIGHTED DURING DARKNESS. SUITABLE WARNING SIGNS SHALL BE PROVIDED TO CONTROL DIRECT TRAFFIC AND WARN PEDESTRIANS. UPON COMPLETION, ALL BARRICADES, SIGNS AND THE LIKE SHALL BE REMOVED.

SUBSURFACE PLANS:
SUBSURFACE INVESTIGATIONS ARE NOT AVAILABLE FOR THIS PROJECT. IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA THAT IS AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED, WASTED, GRADED, AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS IN NO WAY GUARANTEES THE AMOUNT OR NATURE OF THE MATERIAL TO BE ENCOUNTERED.

SANITARY PROVISIONS:
THE CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES FOR THE USE OF THE WORKERS DURING THE PROGRESS OF THE WORK. THE SANITARY FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL. ALL FACILITIES SHALL BE REMOVED AT THE COMPLETION OF THE CONTRACT.

INCIDENTAL ITEMS:
THE CONTRACTOR SHALL REMOVE AND RESET ANY INCIDENTAL ITEMS SUCH AS MAILBOXES OR FENCES AS NOTED ON THE PLANS, AS DIRECTED BY THE ENGINEER, AND/OR ARE DISTURBED DURING CONSTRUCTION.

RESPONSIBILITY REGARDING EXISTING UTILITIES AND STRUCTURES:
THE CONTRACTOR SHALL CONTACT "PALMETTO UTILITY PROTECTION SERVICE" AT 1-888-721-7877, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES WILL BE INVESTIGATED AND LOCATED, VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF EXISTING STRUCTURES AND UTILITIES SHALL BE CAREFULLY DONE BY HAND. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR LOCATIONS, ANY RELOCATION, ADJUSTMENT OR REPLACEMENT OF UTILITY FACILITIES. VERTICAL ALIGNMENT TO BE ALTERED BY INSERTION OF VERTICAL BENDS WHICH ALLOW SEPARATION AS REQUIRED BY LOCAL JURISDICTION.

INTERRUPTION OF UTILITY SERVICE:
THE CONTRACTOR'S OPERATIONS SHALL BE SO CONDUCTED AS TO INTERFERE AS LITTLE AS POSSIBLE WITH UTILITY SERVICES. ANY PROPOSED INTERRUPTION BY THE CONTRACTOR MUST BE ACCEPTED IN ADVANCE BY THE ENGINEER AND RESPECTIVE UTILITY OWNER.

UTILITIES:
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE AND INVERT OF ALL EXISTING UTILITIES. WHERE CONFLICTS EXIST BETWEEN THE UTILITY AND NEW CONSTRUCTION, THE UTILITY SHALL BE RELOCATED BY THE APPROPRIATE UTILITY PROVIDER(S). THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER FOR REPAIR OF ANY AND ALL DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION ARE THE CONTRACTOR'S RESPONSIBILITY.

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING WORK. VERIFY UTILITIES WITHIN THE PROJECT LIMITS AND NOTIFY THE ENGINEER OF CONFLICTS OR VARIANCES TO THE PLANS PRIOR TO BEGINNING WORK OR PURCHASE OF MATERIALS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS.

THE EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS AND FIELD EXAMINATIONS. ALL LOCATIONS AND POSITIONS ARE APPROXIMATE. THE CONTRACTOR SHALL INDEPENDENTLY DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND PURCHASING CONSTRUCTION MATERIALS AND SHOULD NOTIFY THE ENGINEER OF ANY UNCHANGED UTILITIES. THE CONTRACTOR SHALL PROTECT ALL UTILITIES TO REMAIN AND SHALL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR AS A RESULT OF THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES IN THE PROJECT AREA.

THE TOWN WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION.

THE CONTRACTOR SHALL HOLD THE TOWN HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. AS NEEDED, THE CONTRACTOR SHALL ADJUST/RELOCATE THE SANITARY SEWER AND WATER LINES ONLY. ALL OTHER ADJUSTMENTS/RELOCATIONS WILL BE PERFORMED BY THE VARIOUS UTILITY OWNERS. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITY OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE. THE CITY WILL NOT BE HELD RESPONSIBLE FOR ANY DELAYS OR DISRUPTIONS IN THE SCHEDULE DUE TO THE WORK OF OTHER UTILITY OWNERS.

EXISTING SANITARY SEWER AND WATER LINE:
THE CONTRACTOR SHALL USE CARE WHEN WORKING AROUND SANITARY SEWERS AND WATER LINES. SHOULD THE CONTRACTOR DAMAGE EXISTING SEWER OR WATER LINES, HE SHALL IMMEDIATELY REPLACE THE LINE, AT HIS EXPENSE, WITH DUCTILE IRON PIPE. SEWER LATERALS IN CONTACT WITH PROPOSED STORM DRAINAGE IMPROVEMENTS SHALL BE REPLACED WITH DUCTILE IRON PIPE FROM SEWER MAIN TO EASEMENT LINE OR RIGHT-OF-WAY FARTHEST FROM THE SEWER MAIN.

THE CONTRACTOR SHALL ADJUST ALL WATER VALVES, WATER METER BOXES AND WATER VAULTS TO FINISHED GRADE. WATER METERS LOCATED IN SIDEWALKS OR CONCRETE DRIVEWAYS SHALL BE INSTALLED WITHIN CONCRETE BOXES. ALL WATER LATERALS SHALL ALSO BE CONNECTED TO PROP. WATER LINE WHERE THERE IS AN EXISTING WATER METER.

PATHWAY PAVING, GRADING, AND DRAINAGE NOTES

- WHERE EXISTING PAVEMENT IS SHOWN TO BE MATCHED, EDGE OR CONTACT FACE WITH EXISTING PAVEMENT SHALL BE SAW CUT TO A NEAT VERTICAL LINE.
- THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A ONE FOOT MINIMUM WIDTH FOR ALL SAWCUTS.
- CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
- TEMPORARY CONTROL OF STORM WATER DRAINAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SEQUENCING AND CONSTRUCTION TECHNIQUES SHALL PREVENT OBSTRUCTION OF STORM SEWERS, PONDING IN TRAFFIC AREAS OR RAISING OF WATER LEVELS WHICH WOULD ENTER ADJACENT BUILDINGS OR STRUCTURES.
- ELEVATION OF TOP OF EXISTING MANHOLES, INLETS, WATER VALVE BOXES, ETC., SHALL BE ADJUSTED TO MATCH NEW PAVING OR RESURFACING GRADES. PRICE TO BE CONSIDERED INCIDENTAL TO THE WORK.
- PREPARATION, GRADING, PAVING AND OTHER SITE IMPROVEMENTS SHALL CONFORM TO THE FOLLOWING:
 - SUBGRADE PREPARATION: TOP SOIL SHALL BE REMOVED FROM PAVED AREAS TO A MINIMUM DEPTH OF 4". ALL EXCAVATION SHALL BE TO SUBGRADE LIMITS. SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% (ASTM D1556) DENSITY FOR A DEPTH OF 12 INCHES.
 - CONCRETE: MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS (5-1/2 BAGS CEMENT PER. CU. YD.; ENTRAINED AIR 5% ± 1%).
 - BASE COURSE: 6" COMPACTED THICKNESS STABILIZED GRADED AGGREGATE.
 - WEARING SURFACE: HOT PLANT MIX ASPHALT CONCRETE, TYPE C OR CM, 220 LBS./SY" COMPACTED THICKNESS. (PRIME AS INDICATED BY PAVING SECTION DETAILS).
- ALL CONSTRUCTION MUST CONFORM TO APPLICABLE STATE, BEAUFORT COUNTY AND/OR TOWN OF HILTON HEAD STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND SOIL EROSION CONTROL AS MAY BE REQUIRED BY SC DHEC/OCRM. THE CONTRACTOR MUST INSTALL SILT BARRIERS AS SHOWN, OR DIRECTED, BY THE PROJECT ENGINEER AND/OR THE OCRM INSPECTOR.
- ALL PIPES BEING SHOWN AS ABANDONED WILL BE FILLED WITH FLOWABLE FILL. CONTRACTOR CAN ELECT TO LEAVE IN PLACE AND FILL WITH FLOWABLE FILL WITH THE TOWN'S APPROVAL AT NO ADDITIONAL COST.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON ROADS, CURBS, SIDEWALKS AND GRASSED LINED DITCHES BEING REPLACED OR CONSTRUCTED.
- PIPE LENGTHS AND SLOPE SHOWN IN PLAN AND PROFILE WERE DETERMINED USING CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

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 SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY 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 ONCE 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 SEDIMENT 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 AND ALL 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 ROADWAY(S) 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 S.C. REG. 72-300 ET SEQ. AND SCRI00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBT IN THE FIELD IF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND 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. WASTEWATER MANAGED BY AN APPROPRIATE CONTROL.
 - 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; AND
 - 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 SC'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 REASONABLY POSSIBLE.
- 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.

GENERAL CONSTRUCTION NOTES

- CLEARING AND GRUBBING
THE CONTRACTOR WILL BE REQUIRED TO CLEAR ALL AREAS NECESSARY FOR THE CONSTRUCTION OF ANY SEDIMENT DAMS AND INSTALL THE SEDIMENT DAMS AND ALL OTHER PERMETER EROSION CONTROL MEASURES PRIOR TO CLEARING AND GRUBBING ACTIVITIES. ALSO, THE CONTRACTOR SHALL STAGE HIS CLEARING AND GRUBBING WORK ALONG WITH HIS ROADWAY CONSTRUCTION WORK TO MINIMIZE THE AMOUNT OF EROSION AND SEDIMENTATION. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING ALL STAGES OF CONSTRUCTION.
- SEEDING
SEEDING SHALL BE ACCOMPLISHED ACCORDING TO S.C.D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007 EDITION, SECTION 810.
- EROSION CONTROL MEASURES
ALL EROSION CONTROL MEASURES ON THIS PROJECT SHALL BE IMPLEMENTED AS DETAILED ON THE PLANS AND SHALL COMPLY WITH S.C.D.O.T. STANDARD DRAWINGS, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION, AND THE SUPPLEMENTAL SPECIFICATIONS, SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN PLACE PRIOR TO GROUND DISTURBING ACTIVITY BEGINS. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING ALL STAGES OF CONSTRUCTION.
- PERMETER EROSION CONTROL DEVICES
SILT FENCE AND SEDIMENT TUBES MAY BE PLACED AT LOCATIONS WHERE SEDIMENT LEAVES THE PROJECT LIMITS ESPECIALLY AT THE TOE OF FILL SLOPES THAT SLOPE AWAY FROM THE PROJECT. SILT FENCE SHALL NOT BE PLACED IN A POSITION SUCH THAT IT BLOCKS DRIVEWAYS OR POINTS OF ACCESS TO PROPERTY. SEDIMENT TUBES (STAKED) SHALL BE UTILIZED, IN LIEU OF SILT FENCE, WITHIN TWELVE (12) FEET OF A TREE TO BE RETAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SEDIMENT TUBES THROUGHOUT THE EXTENT OF CONSTRUCTION.
- INTERIOR EROSION CONTROL DEVICES
INLET PROTECTION SHOULD BE PLACED WHEN PRACTICAL, AROUND EXISTING AND NEW CATCH BASINS SO AS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM. STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE WITHIN THE ALLOWABLE TIMEFRAME STATED WITHIN THE NPDES GENERAL CONSTRUCTION PERMIT IN PORTIONS OF THE SITE WHERE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
- MAINTENANCE OF DRIVEWAYS
MAINTENANCE STONE HAS BEEN PROVIDED FOR MAINTAINING DRIVEWAYS THAT ARE DISTURBED BY CONSTRUCTION AND IN AREAS WHERE CONSTRUCTION TRAFFIC WILL ENTER A PAVED ROADWAY. MAINTENANCE STONE SHALL BE PLACED TO MINIMIZE THE TRACKING OF MUD/SOIL FROM CONSTRUCTION AND PUBLIC TRAFFIC ONTO PAVED ROADWAYS. STONE SHALL REMAIN IN PLACE UNTIL DRIVEWAYS ARE STABILIZED.
- SILT FENCE ALONG PIPE INSTALLATION
IN AREAS OF PIPE INSTALLATION OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE PLANS, USE SILT FENCE AS NEEDED TO MINIMIZE SOIL LOSS FROM THE PROJECT. IMMEDIATELY AFTER COMPLETION OF PIPE INSTALLATION, APPLY PERMANENT VEGETATION TO DISTURBED AREAS.

CLEARING NOTES

- CLEARED AREAS TO BE COMPLETELY CLEARED IN ACCORDANCE WITH THE SPECIFICATIONS.
- NO CLEARING SHALL OCCUR WITHIN DESIGNATED BUFFER/TREE PROTECTION AREAS, OUTSIDE OF THE PROPERTY LINES OR BEYOND CLEARING LIMITS EXCEPT AS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL INSTALL A CONTINUOUS LINE OF FLAGGING OR FENCING ALONG THE LIMITS OF CLEARING PRIOR TO ANY CONSTRUCTION WORK BEGINNING.
- CAUTION SHOULD BE TAKEN DURING CLEARING OPERATIONS TO AVOID FELLING TREES INTO THE DESIGNATED TREE PROTECTION ZONES. NO BURNING SHALL OCCUR WITHIN 50 FEET OF A TREE PROTECTION ZONE.
- NO MATERIALS STORAGE, EARTH STORAGE, GAS FUELING, CONCRETE WASHOUT, DUMPING, OR CONSTRUCTION TRAFFIC IS ALLOWED WITHIN THE TREE PROTECTION ZONES.
- SELECTIVE CLEARING AREAS SHALL BE CLEARED OF ALL BRUSH AND UNDERSTORY GROWTH. ALL TREES OVER 6" IN DIAMETER WILL BE RETAINED AND PROTECTED FROM DAMAGE, UNLESS APPROVED FOR REMOVAL BY THE OWNER OR ENGINEER.
- ALL TREES SHOWN ON THE PLANS TO REMAIN SHALL BE CONSIDERED SPECIMEN TREES AND SHALL BE PROTECTED EVEN IF LOCATED WITHIN CLEARING AREAS. PROTECTION WILL INCLUDE, BUT IS NOT LIMITED TO, THE MEASURES DESCRIBED IN NOTES 4 AND 5 ABOVE. AN AREA 1 1/2 TIMES THE DIAMETER OF THE TREE TRUNK MEASURED 4 FEET FROM EXISTING GRADE WILL BE CONSIDERED THE TREE PROTECTION ZONE FOR AN INDIVIDUAL TREE.
- WHEN TREE ROOTS ARE SEVERED OR EXPOSED DURING TRENCHING OR GRADING OPERATIONS, RE-CUT CLEANLY WITH A SHARP SAW BELOW FINISHED GRADE.

GENERAL SEQUENCE OF CONSTRUCTION

- RECEIVE NPDES COVERAGE FROM SC DHEC.
- CONDUCT PRE-CONSTRUCTION MEETING INCLUDING TOWN, ASSOCIATED CONTRACTORS, ENGINEER, SC DHEC, AND OTHER AFFECTED PARTIES AS NECESSARY.
- NOTIFY DHEC EOC REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
- OBTAIN TREE PROTECTION APPROVAL LETTER AND COORDINATE PLACEMENT OF TREE PROTECTION FENCING WITH TOWN OF HILTON HEAD ISLAND NATURAL RESOURCES.
- INSTALL PERMETER EROSION CONTROL MEASURES (SILT FENCE AND INLET PROTECTION). CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT + EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- PERFORM ROUGH GRADING OPERATIONS.
- INSTALL STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
- PERFORM FINE GRADING AND PAVING OPERATIONS IN A MANNER AND SEQUENCE SO AS TO REDUCE UNNECESSARY DISTURBANCE OF SURFACE COVER.
- PERMANENTLY OR TEMPORARILY VEGETATE AREAS AS COMPLETED OR LEFT IDE.
- EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- ONCE PERMANENT VEGETATION AND EROSION CONTROL MEASURES ARE ESTABLISHED, THE CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION IN ORDER TO OBTAIN A CERTIFICATE OF COMPLETION.
- SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.

EROSION CONTROL NOTES

- ALL DISTURBED EARTH AREAS, NOT DESIGNATED TO BE PAVED, SHALL BE GRASSED USING FERTILIZER, MULCH, AND GRASS SEED OR SOD AS SHOWN ON THE PLAN. APPLY WATER AND MAINTAIN ACCORDING TO APPLICABLE PROVISIONS OF THE SCDOT'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," LATEST EDITION.
- ALL SOIL EROSION CONTROL FEATURES SHALL COMPLY WITH THE STATE MANUAL FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND SHALL BE MAINTAINED BY CONTRACTOR AND INSPECTED DAILY UNTIL DISTURBED AREAS ARE COMPLETELY STABILIZED.
- REFER TO "SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES" AND SCDOT'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," LATEST EDITION FOR MINIMUM STANDARDS AND SPECIFICATIONS FOR DESIGN AND INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
- IMMEDIATELY FOLLOWING ALL LAND DISTURBING ACTIVITIES THE CONTRACTOR SHALL SOW GRASS AS FOLLOWS:
 - PREPARATION: GRADE ALL SEED BEDS, THOROUGHLY REMOVING ALL RIDGES AND DEPRESSIONS AND MAKING AREAS INTO SMOOTH, CONTINUOUS, FIRM PLANES THAT ENSURE PROPER DRAINAGE. REMOVE ALL SOIL LUMPS, ROCKS, STICKS AND OTHER DELETERIOUS MATERIAL.
 - ALL DISTURBED OPEN EARTH AREAS NOT COVERED BY WALKERS OR PAVING SHALL BE GRASSED AS FOLLOWS:

COMMON BERMUDDA (HULLED)	30 LBS/ACRE
CARPETGRASS	35 LBS/ACRE
RESEEDING CRIMSON CLOVER	20 LBS/ACRE
ANNUAL RYEGRASS	15 LBS/ACRE
 - SEEDS SHALL BE PROPORTIONED ACCORDING TO RESPECTIVE APPLICATION RATES. RESEEDING CRIMSON CLOVER AND ANNUAL RYEGRASS SHALL BE ELIMINATED FROM THE MIX IF SEEDING OCCURS BETWEEN MARCH 1 AND AUGUST 15.
 - SEED SHALL BE APPLIED AS A HYDROMULCH OF FERTILIZER, MULCH AND GRASS SEED. IF A HYDROMULCH TECHNIQUE IS NOT USED, AFTER SOWING THE FERTILIZER AND SEED, THE ENTIRE AREA SHALL BE LIGHTLY RAKED OR DRAGGED TO COVER ALL SEED TO A MAXIMUM DEPTH OF APPROXIMATELY ONE-QUARTER INCH.
 - APPLY WATER AND MAINTAIN SEEDING AREA. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE SOUTH CAROLINA LAND RESOURCES CONSERVATION COMMISSION "EROSION AND SEDIMENT CONTROL PRACTICES FOR DEVELOPING AREAS".
 - FERTILIZING: APPLY 15-0-15 FERTILIZER AT THE RATE OF 10 POUNDS PER 1,000 SQUARE FEET RAKING LIGHTLY INTO THE SOIL.
 - MULCHING: WHEAT STRAW IS TO BE SPREAD LIGHTLY OVER SEEDING AREA AT THE RATE OF 1 BALE PER 500 SQUARE FEET.
 - WATERING: WATER IMMEDIATELY AFTER MULCHING.
- ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.
- COPIES OF THE SCDHEC/OCRM APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE NPDES GENERAL PERMIT SCRI00000. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PERMIT SCRI00000.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING WRITTEN WEEKLY INSPECTION REPORTS, AS MAY BE REQUIRED BY SCDHEC/OCRM NPDES GENERAL PERMIT SCRI00000.
- THE CONTRACTOR WILL GRASS ALL DISTURBED AREAS NOT PAVED AS PER THE SEEDING SCHEDULE OR SC DHEC/OCRM REQUIREMENTS.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

APPLICABLE SCDOT STANDARD DRAWINGS

100-105-00	SYMBOLS AND ABBREVIATIONS (ROAD)
100-110-00	SYMBOLS AND ABBREVIATIONS (UTILITY)
601-110-00	MATERIALS STORAGE PRIMARY & SECONDARY RURAL ROADWAYS
601-115-00	MATERIALS STORAGE PRIMARY & SECONDARY URBAN ROADWAYS
601-205-01	PROTECTION OF EXCAVATIONS ADJACENT TO ROADWAY
610-005-00	FLAGGING OPERATION TWO-LANE TWO-WAY PRIMARY & SECONDARY ROUTES
610-205-00	RIGHT SHOULDER CLOSURE (CASE I/ CASE II) PRIMARY ROUTES
610-210-00	LEFT SHOULDER CLOSURE (CASE I/ CASE II) PRIMARY ROUTES
610-215-00	LEFT SHOULDER CLOSURE (CASE I/ CASE II) PRIMARY ROUTES
625-305-00	STANDARD MARKINGS FOR INTERSECTIONS
714-000-00	PIPE CULVERTS
719-000-00	DRAINAGE STRUCTURES
719-201-00	DROP INLET (24" X 24") AND (24" X 36")
804-305-02	OUTLET PROTECTION
804-310-00	OUTLET PROTECTION
815-000-00	EROSION CONTROL
815-001-01	TYPE 'A' INLET FILTER STRUCTURE
815-205-00	SEDIMENT TUBE DITCH APPLICATION
815-605-00	STABILIZED CONSTRUCTION ENTRANCE
815-605-00	TEMPORARY EROSION & SEDIMENTATION CONTROL (SILT FENCE)

ALL INLET PROTECTION TO TO SCDOT TYPE G

EXISTING SURVEY LEGEND

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	BM	SURVEY BENCHMARK		TBX	TELEPHONE BOX
	RWM	RIGHT-OF-WAY MONUMENT		TPED	TELEPHONE PEDESTAL
	COMMON	CONCRETE MONUMENT		GAS	POINT ON GAS LINE
	E. I. P.	EXIST. IRON PIN		FH	FIRE HYDRANT
	CB	EXIST. CATCH BASIN		WP	WITNESS POST
	DI	EXISTING DROP INLET		WM	WATER/GAS METER
	JB	EXIST. JUNCTION BOX		WV	WATER/GAS VALVE
	MH/SW	MANHOLE/SEWER MANHOLE		MWV	WATER MONITORING WELL
	GP	GUY POLE		CATV	CABLE TELEVISION BOX
	GUY	GUY WIRE		---	SHRUB
	MSP	METER/SERVICE POLE		MALBOX	MALBOX
	PP	POWER POLE		FLAG	FLAGPOLE
	EPED	ELECTRIC PEDESTAL		AC	AIR CONDITIONING UNIT
	ETB	ELECTRIC TRANSFORMER BOX		SIGN	SIGN
	LP	LIGHT POLE		COL	COLUMN
	FLT	FLOOD LIGHT		FC	FILL CAP
	TP	TELEPHONE POLE		VAC	VACUUM (COMMERCIAL)

WATER LINE	-W	W
ELECTRIC WIRE (UNDERGROUND)		UE
ELECTRIC WIRE (OVERHEAD)	-E	E
TELEPHONE LINE (UNDERGROUND)		T
TELEVISION LINE (UNDERGROUND)		UTV
FIBER OPTIC CABLE LINE		FOL FOL FOL
GAS LINE	-G	G
SANITARY SEWER LINE	-SS	SS
EXISTING PROPERTY LINE	---	---
FENCE LINE	X-X-X-X-X-X	X-X-X-X-X-X
STORM SEWER	====	====

PROPOSED IMPROVEMENTS LEGEND

	PERMANENT SEEDING		TEMPORARY SEEDING
	OUTLET PROTECTION		TREE REMOVAL
	STORM SEWER		TREE PROTECTION
	SILT FENCE		LIMITS OF DISTURBANCE

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Aaron D. Livingston
5/25/16

4	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1			

TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

GENERAL NOTES

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

SCDOT Additional Special Provisions

- 0002 – ALL REPAVING IS TO CONFORM TO STANDARD DEPARTMENT SPECIFICATIONS. THE ROAD, AT DROP INLETS, SHALL BE MILLED TO MAKE A SMOOTH TRANSITION WHEN PAVED. PAVEMENT WITH CURB AND/OR SIDEWALK WILL BE PAVED FULL DEPTH FROM OUTER EDGE TO GUTTER EDGE.
- 0003 – WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO THE DEPARTMENT SPECIFICATIONS.
- 0004 – SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.
- 0005 – APPLICANT SHALL PROVIDE TO THE DEPARTMENT THE OPPORTUNITY OF ATTENDING ANY PRE-CONSTRUCTION MEETING PRIOR TO THE BEGINNING OF WORK.
- 0101 – SHOULDER SOD DESTROYED BY THIS INSTALLATION TO BE REPLACED FOR THE ENTIRE AREA. THE AREA SHALL BE RE-SHAPED AND ROLLED TO THE CROSS SECTION EXISTING PRIOR TO THIS WORK.
- 0123 – ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMMODATING TING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.
- 0208 – REINFORCED CONCRETE PIPE SHALL BE USED FOR DRIVEWAY DRAINAGE.
- 0207 – PIPE USED IN THIS INSTALLATION SHALL BE IN ACCORDANCE WITH SCDOT SPECIFICATION SC-M-714 AND COMPLY WITH CURRENT SCOOT POLICY.
- 0301 – THE DITCHES AND/OR SHOULDERS DISTURBED DURING THE INSTALLATION SHALL BE RE-ESTABLISHED TO PROPER GRADE, ORIGINAL CROSS SECTION, STABILIZED, AND ALL DRAIN PIPES CLEARED.
- 0209 – DISTURBED VEGETATION SHALL BE RESEEDING ACCORDING TO THE SPECIFICATION FOR HIGHWAY CONSTRUCTION.
- 0305 – FLASHING ARROW BOARDS SHALL BE USED FOR ALL LANE CLOSURES ON PRIMARY ROUTES AND/OR ROADS WITH HIGH TRAFFIC VOLUMES.
- 0306 – TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY APPLICANT AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 0310 – FIELD CHANGES, IF NECESSARY, MUST BE APPROVED IN WRITING BEFORE ACTUAL CONSTRUCTION OF PROPOSED CHANGES.
- 0311 – SEDIMENT AND EROSION CONTROL DEVICES SHALL BE USED TO MINIMIZE THE MOVEMENT OF SEDIMENT.
- 0312 – THE PERMITTEE SHALL HOLD THE DEPARTMENT HARMLESS FOR DAMAGES TO BOTH UPSTREAM AND DOWNSTREAM PROPERTIES.
- 0318 – THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAYBE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

SCDOT

App# 200031859
Permit# 192238

Page 1 of 4

Application for Encroachment Permit

SC Department of Transportation
Form 217 (Rev. 07/2015)

Contact Information

Applicant:
 Street:
 City:
 State: Zip Code:
 Phone: Fax:
 Email:
 Contact:

Project Location

Primary County:

County	Road Name
<input type="text" value="Beaufort"/>	<input type="text" value="Squire Pope Rd"/>

1. Type of Encroachment: Improvements to roadway connection for Blazing Star Lane.

2. Description of Location: Approximately 1/2 mile north of US278 along Squire Pope Rd. (S-141) and 1 mile south of Gum Tree Rd. (S-482) along Squire Pope Road (S-141).

(Attach sketch indicating roadway features such as: pavement width, shoulder width, sidewalks and curb and gutter location, significant drainage structures, north arrow, right of way width, and location of the proposed encroachment with respect to the roadway centerline and the nearest intersecting road on the State system.)

http://sp2.scdot.org/EncPermits/_layouts/scdot_encperappsp2/scdotencperappsp2.aspx 03/31/2016

SCDOT

Page 2 of 4

Customer Agreement

3. The undersigned applicant hereby requests the SCDOT to permit encroachment on the SCDOT right of way as described herein. It is expressly understood that the encroachment, if and when constructed, shall be installed in accordance with the sketch attached hereto and made a part hereof. The applicant agrees to comply with and be bound by the SCDOT's "A Policy for Accommodating Utilities on Highways Rights of Way", "Standard Specifications for Highway Construction", the "General Provisions" and "Special Provisions", attached hereto or made a part hereof by reference, during the installation, operation and maintenance of said encroachment within the SCDOT's Right of Way. DISCHARGES OF STORM WATER AND NON-STORM WATER: Work within State Highway right-of-way shall be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permits issued to the Department of Transportation (Department), to govern the discharge of storm water and non-storm water from its properties. Work shall also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits Manual and encroachment permit. The encroachment permit will not be issued until the applicant has received an NPDES construction permit from SC Department of Health and Environmental Control.

The applicant agrees to comply with all current SCDOT Standards Specifications for Highway Construction including all Supplemental Technical Specifications. The applicant hereby further agrees, and binds his/her/his heirs, personal representatives, successors, assigns, to assume any and all liability for accidents or injuries to persons, or damage to property, including the highway, that may be caused by the construction, maintenance, use, moving or removing of the physical appurtenances contemplated herein, and the applicant agrees to indemnify and hold SCDOT harmless from and against any and all claims for personal injury and/or property damage which may be sustained by reason of the construction, maintenance or existence of said encroachment on the SCDOT's right of way.

Applicant's Name: Date:
 Applicant's Sig:  Title:

For Office Use Only

For Office Use Only
 In accordance with your request and subject to all the provisions, terms, conditions, and restrictions stated in the application and the general and special provisions attached hereto, the SCDOT hereby approves your application for an encroachment permit. This permit shall become null and void unless the work contemplated herein shall have been completed prior to:

See Attached Special Provision and/or Permit Requirements

NPDES Permit Nbr:
 (Date received by res. Maint. Engrs) (Date)

http://sp2.scdot.org/EncPermits/_layouts/scdot_encperappsp2/scdotencperappsp2.aspx 03/31/2016

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PROVIDED BY SCDOT	INFRASTRUCTURE CONSULTING & ENGINEERING				 <p>TOWN OF HILTON HEAD ISLAND SOUTH CAROLINA</p> <p>GENERAL NOTES</p> <p>BLAZING STAR LANE ROADWAY AND DRAINAGE IMPROVEMENTS</p>
	4				
	3				
	2				
	1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION		

SUMMARY OF ESTIMATED QUANTITIES

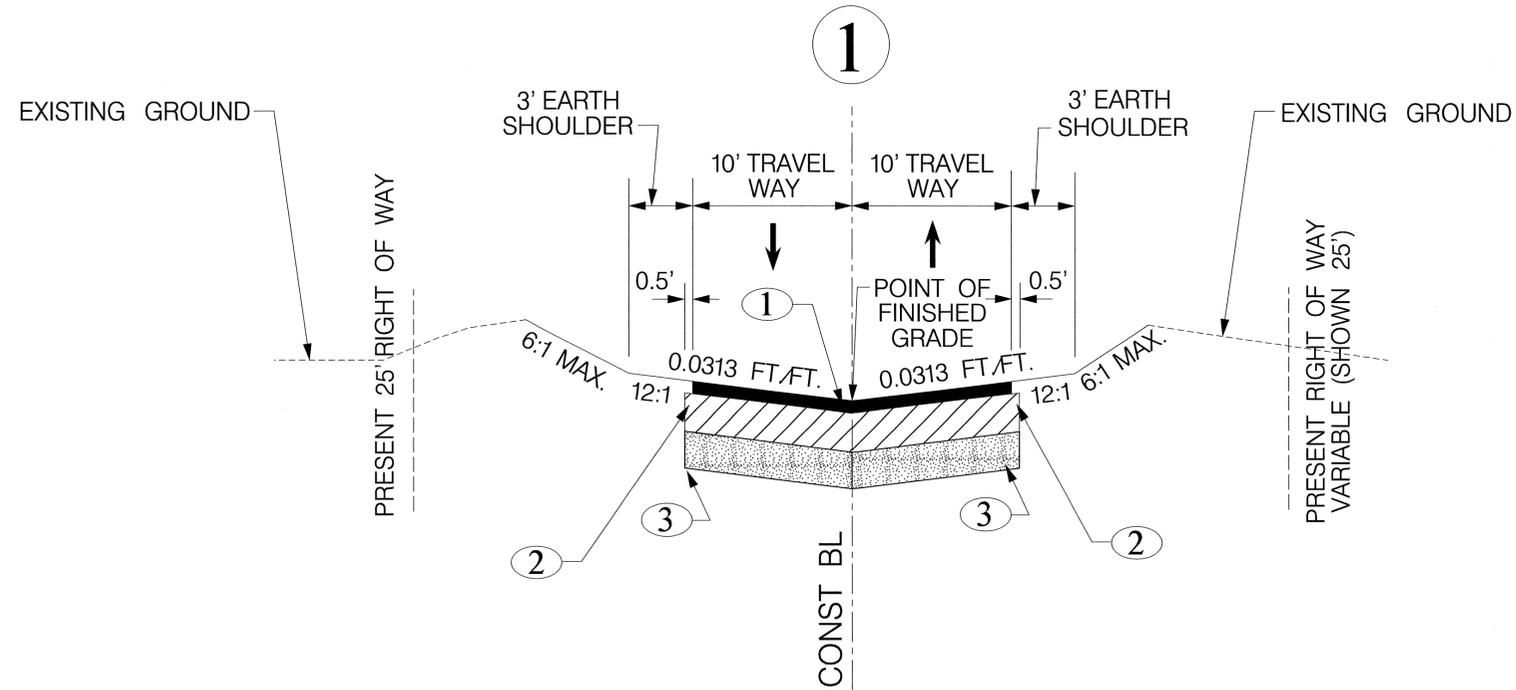
FED. RD. DIV. NO.	STATE	COUNTY	ROAD ROUTE NO.	PROJECT ID NO.	SHEET NO.
3	S.C.	BEAUFORT	BLAZING STAR LN		2B

ITEM NO.	PAY ITEM	COMPUTED QUANTITY	PAY UNIT	INCIDENTAL QUANTITY	ITEM NO.	PAY ITEM	COMPUTED QUANTITY	PAY UNIT	INCIDENTAL QUANTITY
1031000	MOBILIZATION	NEC	LS						
1050800	CONSTRUCTION STAKES, LINES & GRADES	1	EA						
1071000	TRAFFIC CONTROL	NEC	LS						
2012000	CLEARING & GRUBBING WITHIN ROADWAY	NEC	LS						
2016000	SELECTED REMOVAL OF MARKED TREES	NEC	LS						
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	200	SY						
2031000	UNCLASSIFIED EXCAVATION	1100	CY						
3050106	GRADED AGGREGATE BASE COURSE (6" UNIFORM)	2100	SY						
4011004	LIQUID ASPHALT BINDER PG64-22	13	TON						
4030340	HOT MIX ASPHALT SURFACE COURSE TYPE C OR CM	210	TON						
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	368	SF						
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	16	LF						
6271020	12" WHITE SOLID LINES (PATHWAY) - THERMO. - 125 MIL	10	LF						
6271074	4" YELLOW SOLID LINES (PATHWAY) THERMO-90 MIL.	80	LF						
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	16.0	SF						
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	44	LF						
7141112	15" RC PIPE CUL.-CLASS III	120	LF						
7141113	18" RC PIPE CUL.-CLASS III	300	LF						
7192020	DROP INLET(24" X 36")	5	EA						
7197120	ADJUST EXISTING MANHOLE TOPS	NEC	LS						
7197141	ADJUST UTILITY VALVE BOX COVERS	NEC	LS						
7204100	CONCRETE FOR APRONS AT CROSSWALKS (4" UNIFORM)	25	SY						
7204900	DETECTABLE WARNING SURFACE	30	SF						
8041030	RIP-RAP (CLASS C)	21.5	TON						
8048110	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 1)TYPE C	18	SY						
8114011	TREE PROTECTION	NEC	LS						
8111178	WILLOW OAK 3"-4" CAL. (10-12')	2	EA						
8111377	SOUTHERN WAXMYRTLE 7 GAL.	12	EA						
8111161	LOBLOLLY PINE 3"-4" CAL. (10-12')	3	EA						
8151110	TEMP. EROSION CONTROL BLANKET	1802	SF						
8152007	SEDIMENT TUBES FOR DITCH CHECKS	40	LF						
8153000	SILT FENCE	500	LF						
8156200	CLEANING INLET STRUCTURE FILTERS	5	EA						
8156220	INLET STRUCTURE FILTER - TYPE G	5	EA						
PLANS	NEW STOP SIGNS AT PATHWAY	2	EACH						
PLANS	REMOVAL AND DISPOSAL OF EXISTING DEBRIS	NEC	LS						
PLANS	REMOVAL AND RESETTING EXISTING MAILBOXES	NEC	LS						
PLANS	FLARED END SECTION (GEORGIA DOT)	3	EA						

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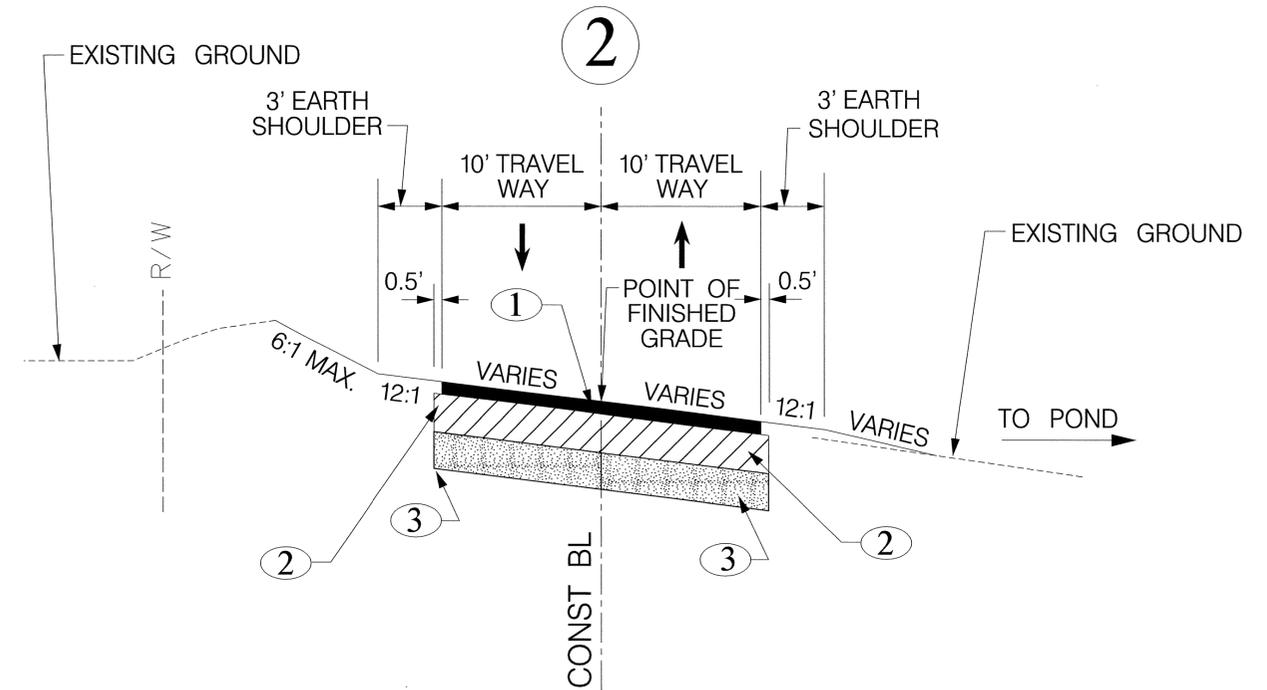
				TOWN OF HILTON HEAD ISLAND SOUTH CAROLINA SUMMARY OF ESTIMATED QUANTITIES BLAZING STAR LANE ROADWAY AND DRAINAGE IMPROVEMENTS
REV. NO. BY DATE DESCRIPTION OF REVISION		4 3 2 1		

TYPICAL SECTIONS OF IMPROVEMENTS



USE THIS SECTION - BLAZING STAR LANE
FROM STA. 10+10.39 TO STA. 15+06.56

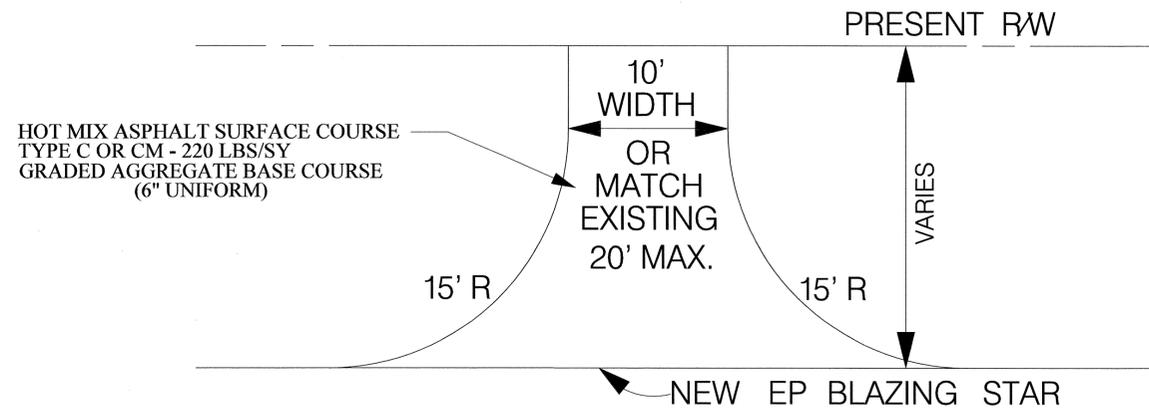
NTS



USE THIS SECTION - HAMMERHEAD
TURN-AROUND

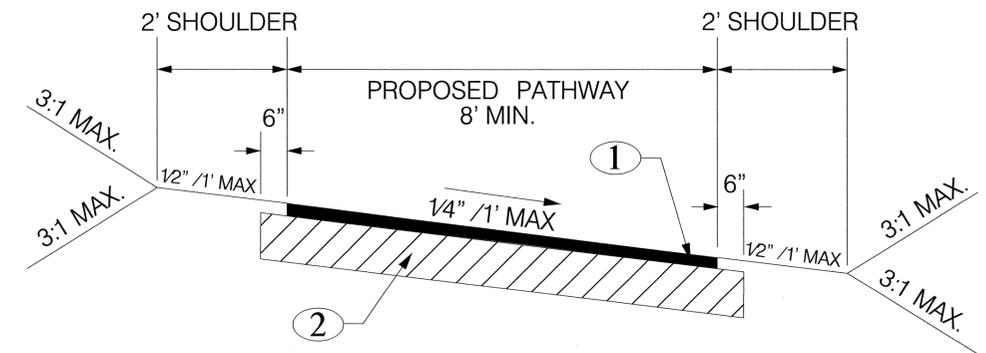
FROM STA. 100+00 TO STA. 101+21.35

NTS



TYPICAL DRIVEWAY DETAIL

NTS



PATHWAY TYPICAL

NTS

LEGEND

- ① ● HOT MIX ASPHALT SURFACE COURSE
TYPE C OR CM - 220 LBS/SY
- ② ▨ GRADED AGGREGATE BASE COURSE (6" UNIFORM)
- ③ ● COMPACTED SUBBASE



INFRASTRUCTURE
CONSULTING & ENGINEERING

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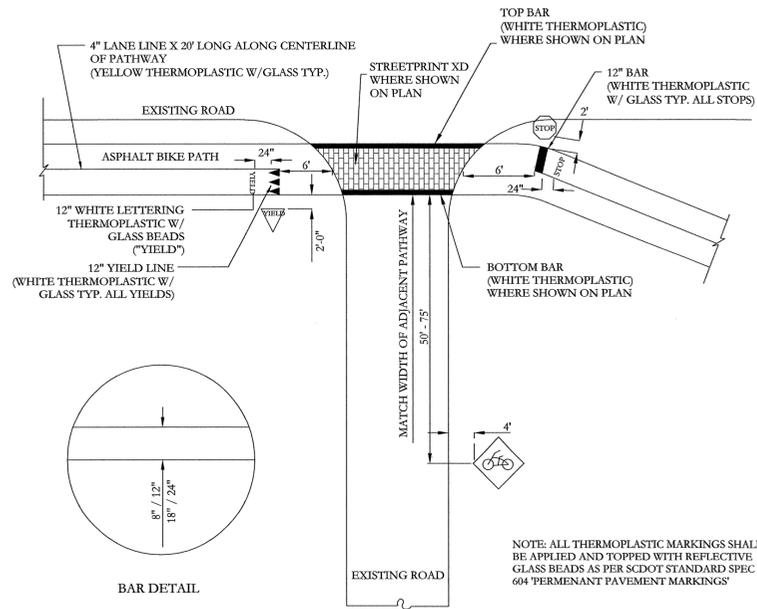


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

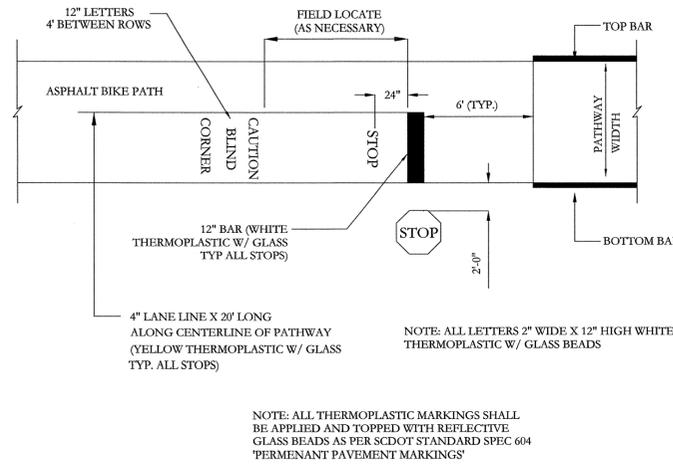
TYPICAL SECTIONS AND DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

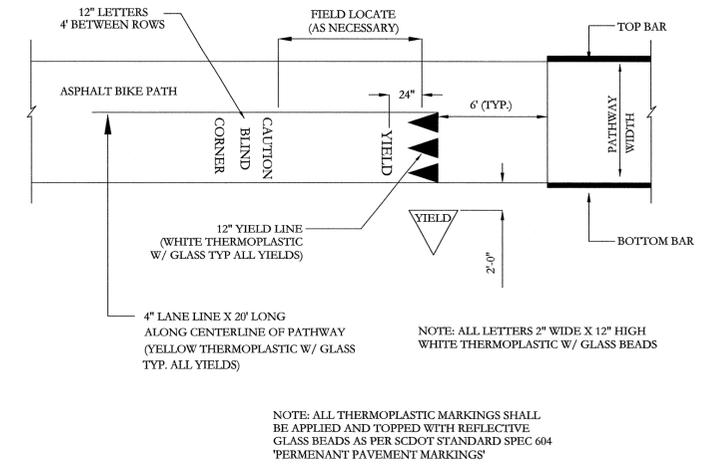
TYPICAL SECTIONS OF IMPROVEMENTS



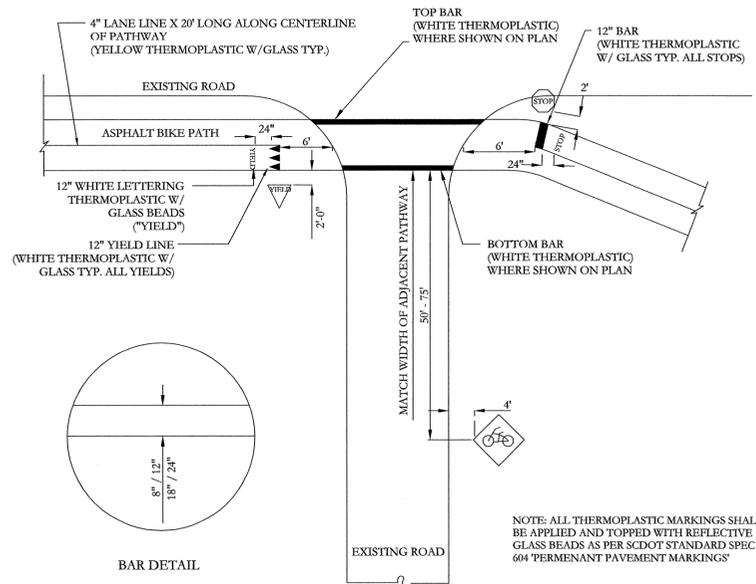
STRIPING AT ROADWAY CROSSING
NOT TO SCALE



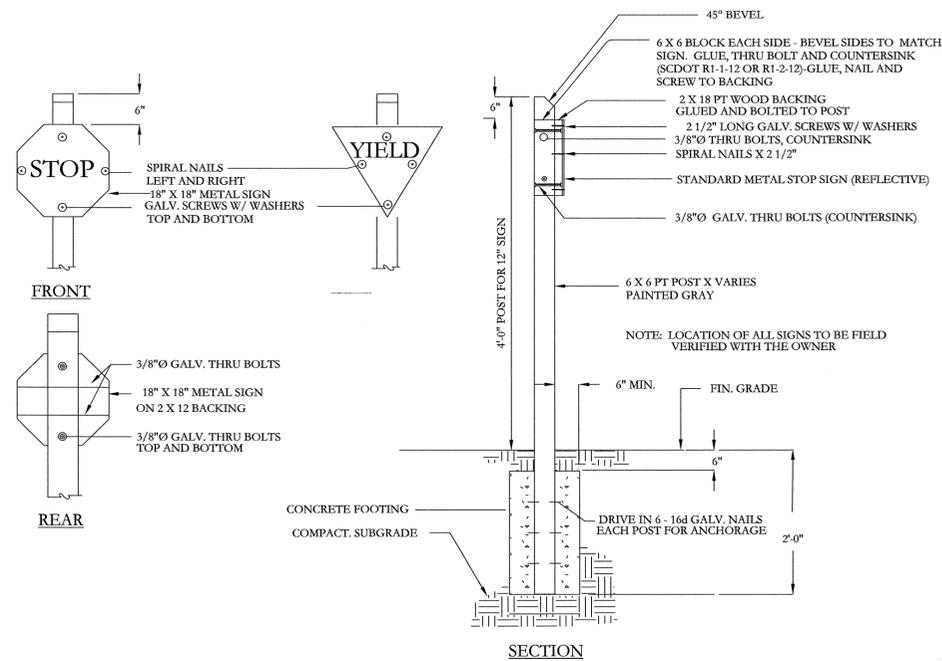
SIGNAGE - STOP GRAPHIC DETAIL
NOT TO SCALE



SIGNAGE - YIELD GRAPHIC DETAIL
NOT TO SCALE



STRIPING AT DRIVEWAY CROSSING
NOT TO SCALE

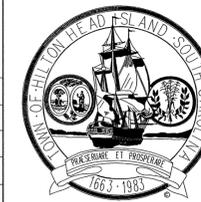


SIGNAGE - STOP/YIELD 18"
NOT TO SCALE

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TOWN PROVIDED DETAILS

INFRASTRUCTURE
CONSULTING & ENGINEERING

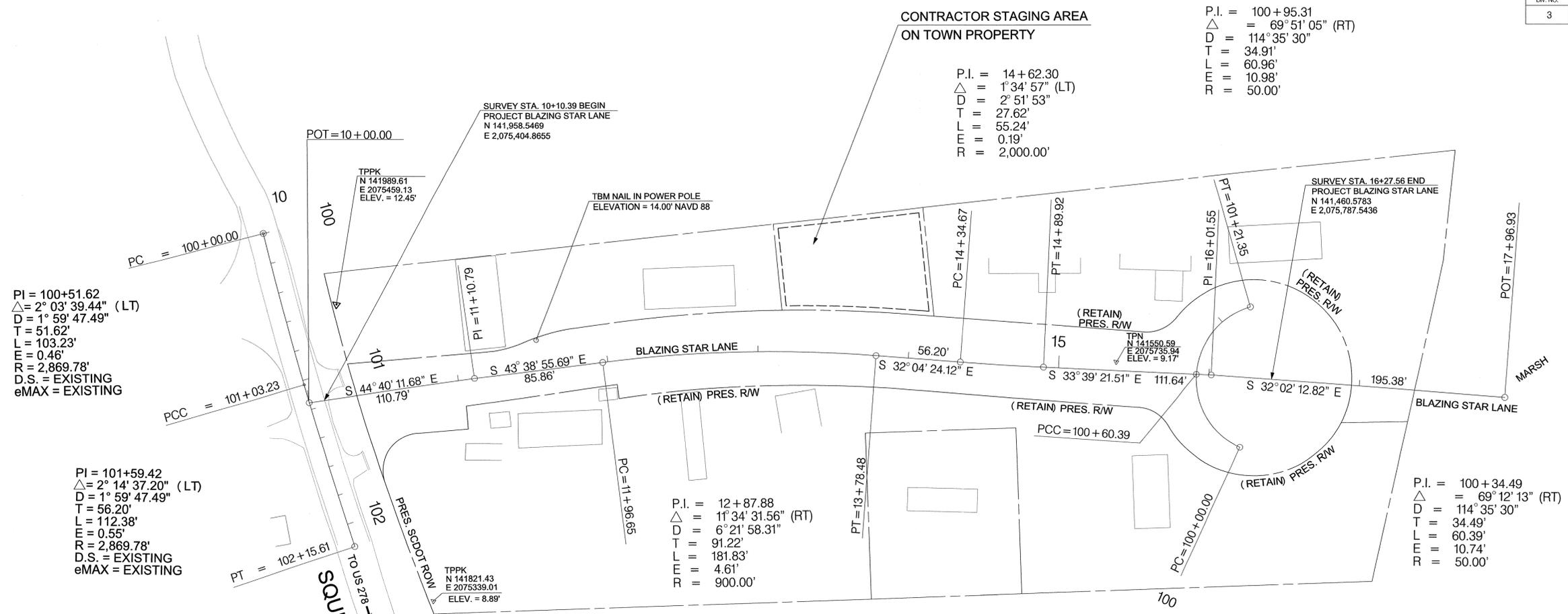


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

PATH DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

4				
3				
2				
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	



P.I. = 100+51.62
 Δ = 2° 03' 39.44" (LT)
 D = 1° 59' 47.49"
 T = 51.62'
 L = 103.23'
 E = 0.46'
 R = 2,869.78'
 D.S. = EXISTING
 eMAX = EXISTING

P.I. = 101+59.42
 Δ = 2° 14' 37.20" (LT)
 D = 1° 59' 47.49"
 T = 56.20'
 L = 112.38'
 E = 0.55'
 R = 2,869.78'
 D.S. = EXISTING
 eMAX = EXISTING

**CONTRACTOR STAGING AREA
ON TOWN PROPERTY**
 P.I. = 14+62.30
 Δ = 1° 34' 57" (LT)
 D = 2° 51' 53"
 T = 27.62'
 L = 55.24'
 E = 0.19'
 R = 2,000.00'

P.I. = 100+95.31
 Δ = 69° 51' 05" (RT)
 D = 114° 35' 30"
 T = 34.91'
 L = 60.96'
 E = 10.98'
 R = 50.00'

P.I. = 100+34.49
 Δ = 69° 12' 13" (RT)
 D = 114° 35' 30"
 T = 34.49'
 L = 60.39'
 E = 10.74'
 R = 50.00'

Beginning chain SQUIRE description

Curve Data

Curve SQUIRE-1
 P.I. = 100+51.62
 Δ = 2° 03' 39.44" (LT)
 Degree = 1° 59' 47.49"
 Tangent = 51.6192
 Length = 103.2272
 Radius = 2,869.7767
 External = 0.4642
 Long Chord = 103.2217
 Mid. Ord. = 0.4641

Back = S 39° 26' 40.51" W
 Ahead = S 37° 23' 01.07" W
 Chord Bear = S 38° 24' 50.79" W

Curve Data

Curve SQUIRE-2
 P.I. = 101+59.42
 Δ = 2° 14' 37.20" (LT)
 Degree = 1° 59' 47.49"
 Tangent = 56.1965
 Length = 112.3786
 Radius = 2,869.7767
 External = 0.5502
 Long Chord = 112.3714
 Mid. Ord. = 0.5501

Back = S 37° 23' 01.07" W
 Ahead = S 35° 08' 23.87" W
 Chord Bear = S 36° 15' 42.47" W

Ending chain SQUIRE description

Chain BLAZING contains:
 1000000 1000001 CUR BLAZING-1 CUR BLAZING-2 1000002 1000003

Beginning chain BLAZING description

Point 1000000 N 141,965.6586 E 2,075,396.0777 Sta 10+00.000
 Course from 1000000 to 1000001 S 44° 40' 11.6792" E Dist 110.7924

Point 1000001 N 141,886.8665 E 2,075,473.9671 Sta 11+10.792
 Course from 1000001 to PC BLAZING-1 S 43° 38' 55.6875" E Dist 85.8600

Curve Data

Curve BLAZING-1
 P.I. Station 12+87.876 N 141,758.7315 E 2,075,596.1967
 Δ = 11° 34' 31.5631" (RT)
 Degree = 6° 21' 58.3118"
 Tangent = 91.2237
 Length = 181.8265
 Radius = 900.0000
 External = 4.6114
 Long Chord = 181.5174
 Mid. Ord. = 4.5879
 P.C. Station 11+96.652 N 141,824.7396 E 2,075,533.2308
 P.T. Station 13+78.479 N 141,681.4314 E 2,075,644.6370
 C.C. = N 141,203.5271 E 2,074,882.0050
 Back = S 43° 38' 55.6875" E
 Ahead = S 32° 04' 24.1244" E
 Chord Bear = S 37° 51' 39.9060" E

Course from PT BLAZING-1 to PC BLAZING-2 S 32° 04' 24.1244" E Dist 56.1960

Curve Data

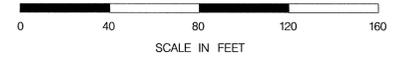
Curve BLAZING-2
 P.I. Station 14+62.298 N 141,610.4054 E 2,075,689.1455
 Δ = 1° 34' 57.3834" (LT)
 Degree = 2° 51' 53.2403"
 Tangent = 27.6235
 Length = 55.2434
 Radius = 2,000.0000
 External = 0.1908
 Long Chord = 55.2416
 Mid. Ord. = 0.1907
 P.C. Station 14+34.675 N 141,633.8127 E 2,075,674.4773
 P.T. Station 14+89.918 N 141,587.4122 E 2,075,704.4545
 C.C. = N 142,695.8222 E 2,077,369.2150
 Back = S 32° 04' 24.1244" E
 Ahead = S 33° 39' 21.5079" E
 Chord Bear = S 32° 51' 52.8162" E

Course from PT BLAZING-2 to 1000002 S 33° 39' 21.5079" E Dist 111.6365

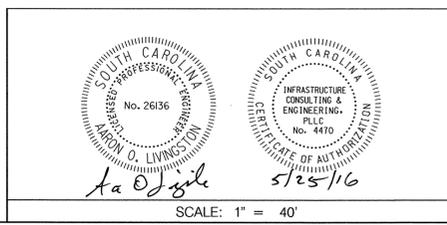
Point 1000002 N 141,494.4882 E 2,075,766.3240 Sta 16+01.555
 Course from 1000002 to 1000003 S 32° 02' 12.8225" E Dist 195.3793

Point 1000003 N 141,328.8638 E 2,075,869.9660 Sta 17+96.934

Ending chain BLAZING description



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INFRASTRUCTURE CONSULTING & ENGINEERING

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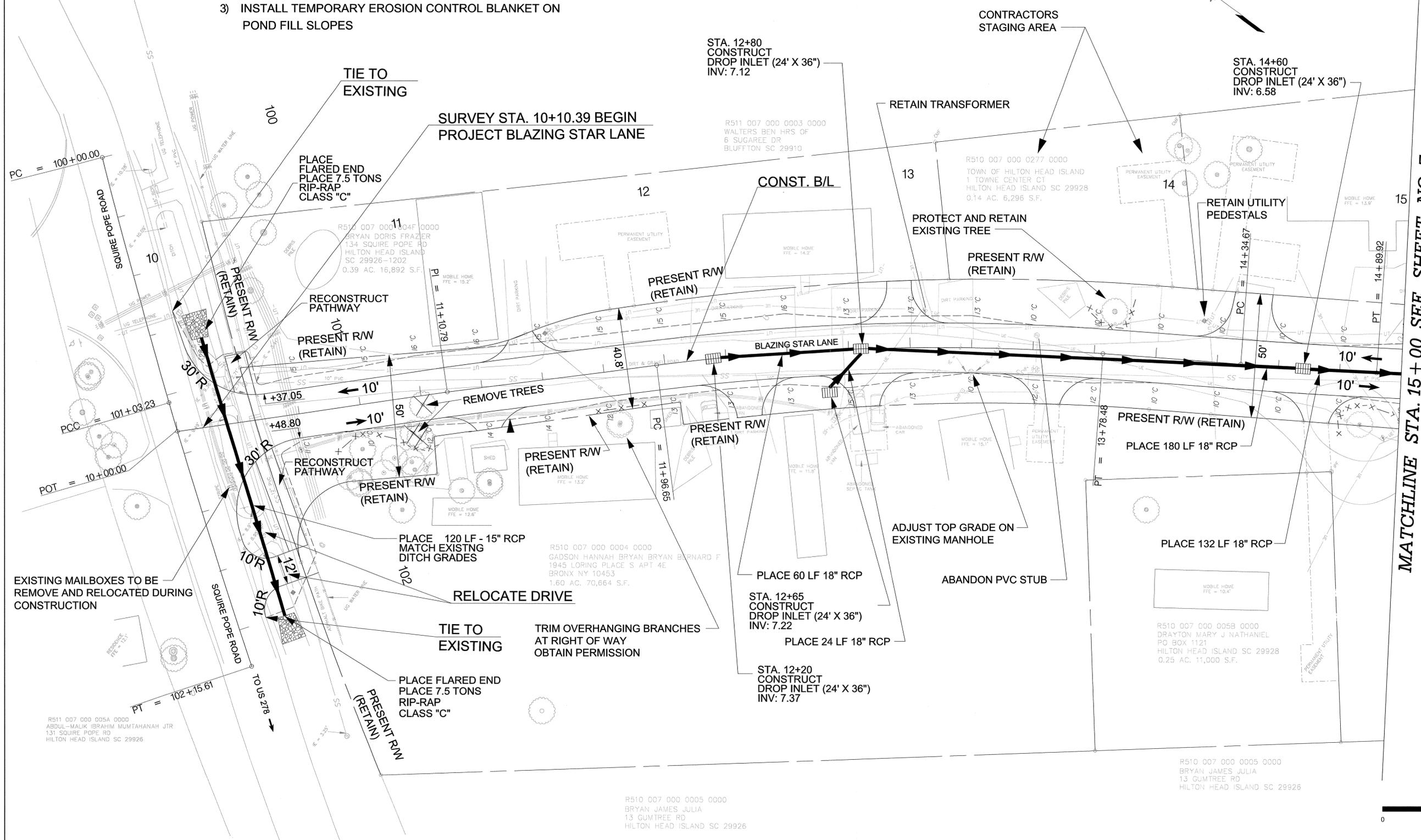
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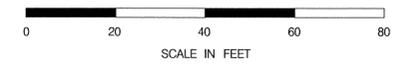
TOWN OF HILTON HEAD ISLAND
 SOUTH CAROLINA
 GEOMETRIC DATA SHEET
 BLAZING STAR LANE
 ROADWAY AND DRAINAGE IMPROVEMENTS

NOTES:

- 1) SEE SHEET 4 FOR GEOMETRIC LAYOUT.
- 2) USE INLET FILTER TYPE 'G' ON ALL NEW DROP INLETS.
- 3) INSTALL TEMPORARY EROSION CONTROL BLANKET ON POND FILL SLOPES



MATCHLINE STA. 15+00 SEE SHEET NO. 7



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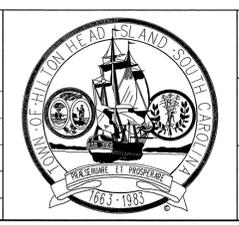
LEGEND

	EXISTING TREES TO BE REMOVED
	TREE PROTECTION FENCE

			5/25/16
		SCALE: 1" = 20'	

INFRASTRUCTURE CONSULTING & ENGINEERING

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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

PLAN SHEET

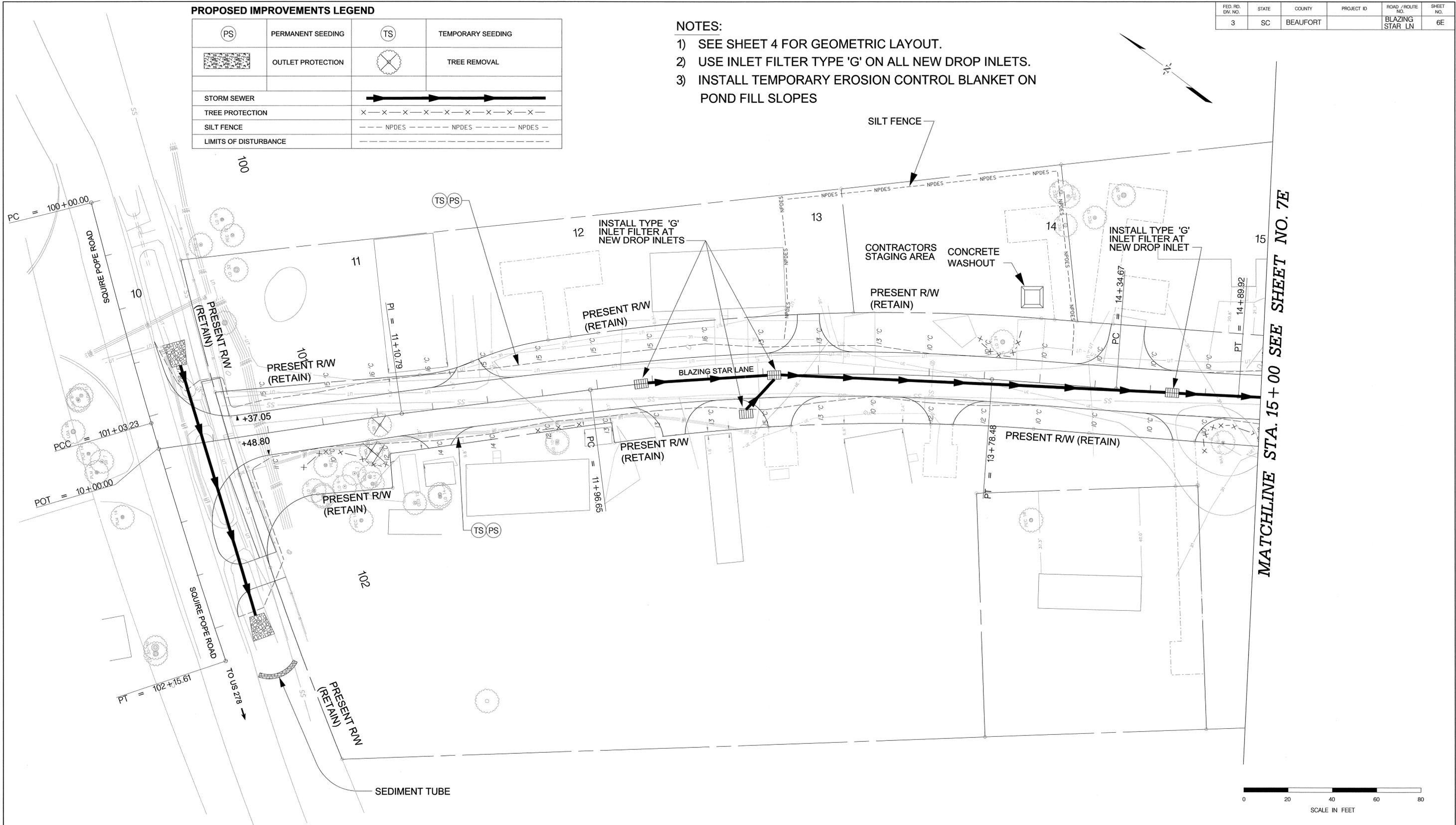
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

PROPOSED IMPROVEMENTS LEGEND

(PS)	PERMANENT SEEDING	(TS)	TEMPORARY SEEDING
	OUTLET PROTECTION		TREE REMOVAL
STORM SEWER			
TREE PROTECTION			
SILT FENCE			
LIMITS OF DISTURBANCE			

NOTES:

- 1) SEE SHEET 4 FOR GEOMETRIC LAYOUT.
- 2) USE INLET FILTER TYPE 'G' ON ALL NEW DROP INLETS.
- 3) INSTALL TEMPORARY EROSION CONTROL BLANKET ON POND FILL SLOPES

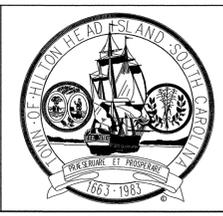


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SCALE: 1" = 20'

INFRASTRUCTURE CONSULTING & ENGINEERING

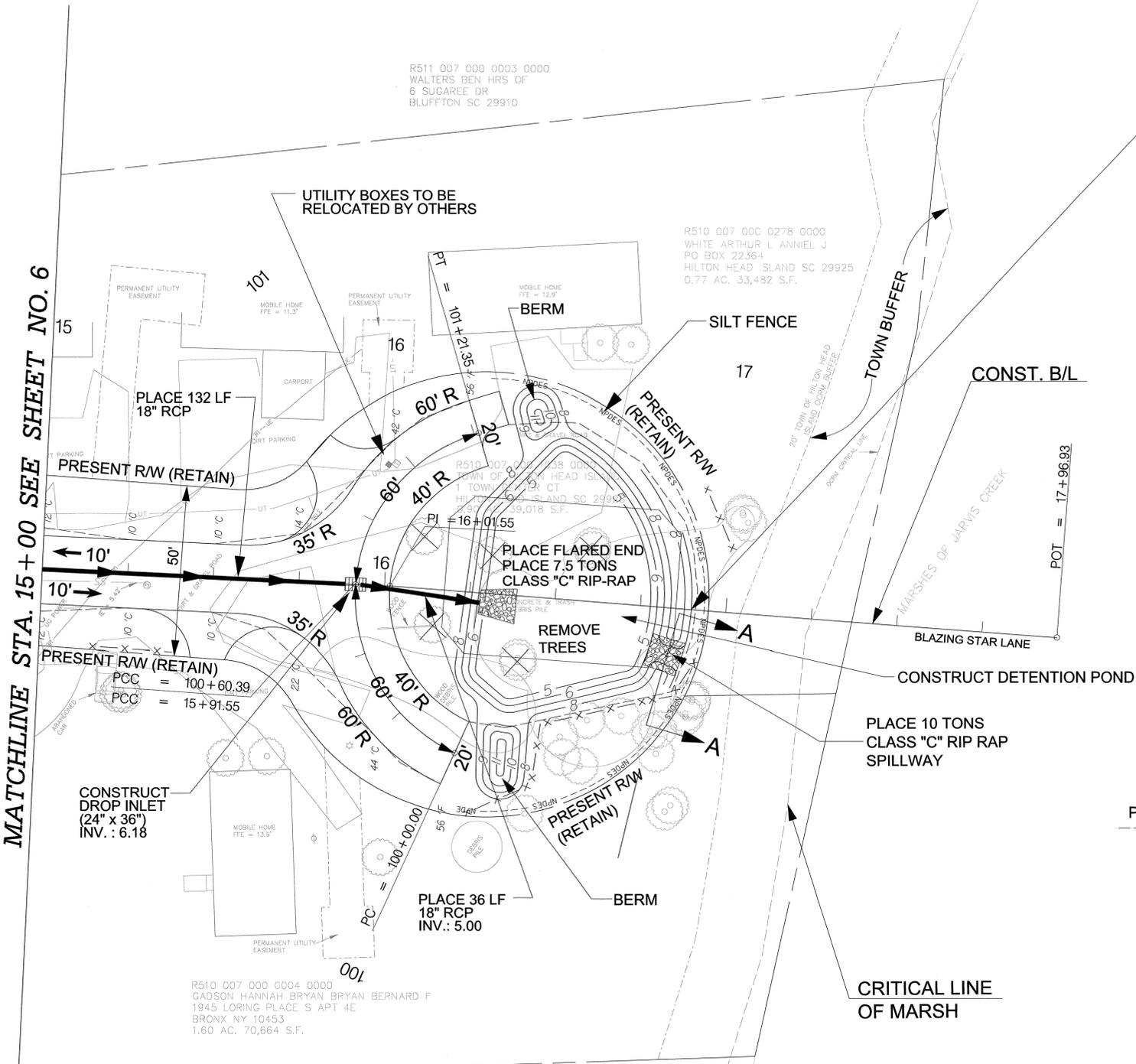


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

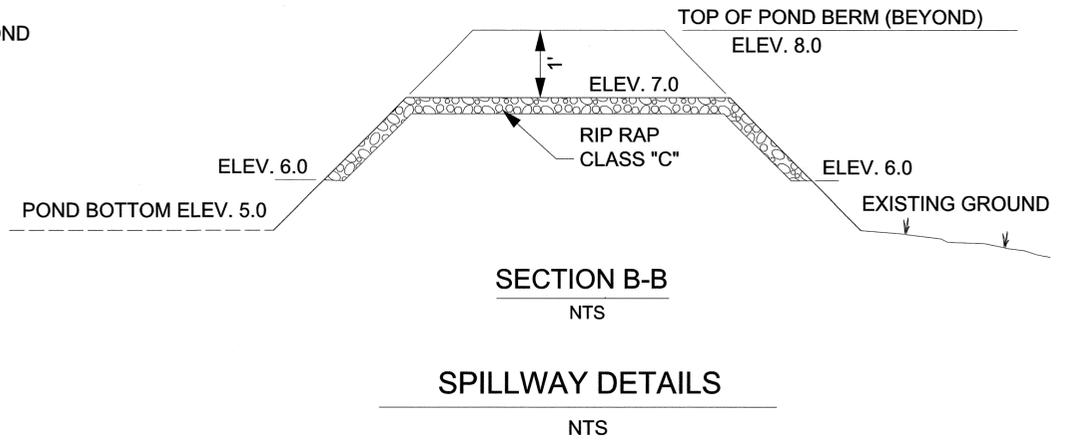
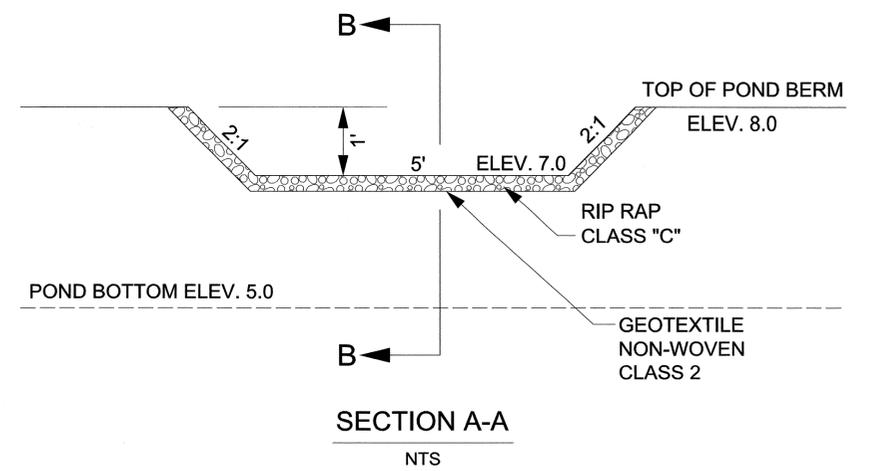
EROSION CONTROL PLAN SHEET

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

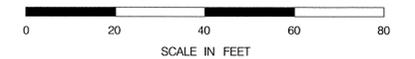
MATCHLINE STA. 15+00 SEE SHEET NO. 6



SURVEY STA. 16+89.88 END
PROJECT BLAZING STAR LANE



- NOTES:**
- SEE SHEET 4 FOR GEOMETRIC LAYOUT.
 - USE INLET FILTER TYPE 'G' ON ALL NEW DROP INLETS.
 - INSTALL TEMPORARY EROSION CONTROL BLANKET ON POND FILL SLOPES



- LEGEND**
- EXISTING TREES TO BE REMOVED
 - TREE PROTECTION FENCE

SCALE: 1" = 20'

INFRASTRUCTURE CONSULTING & ENGINEERING	
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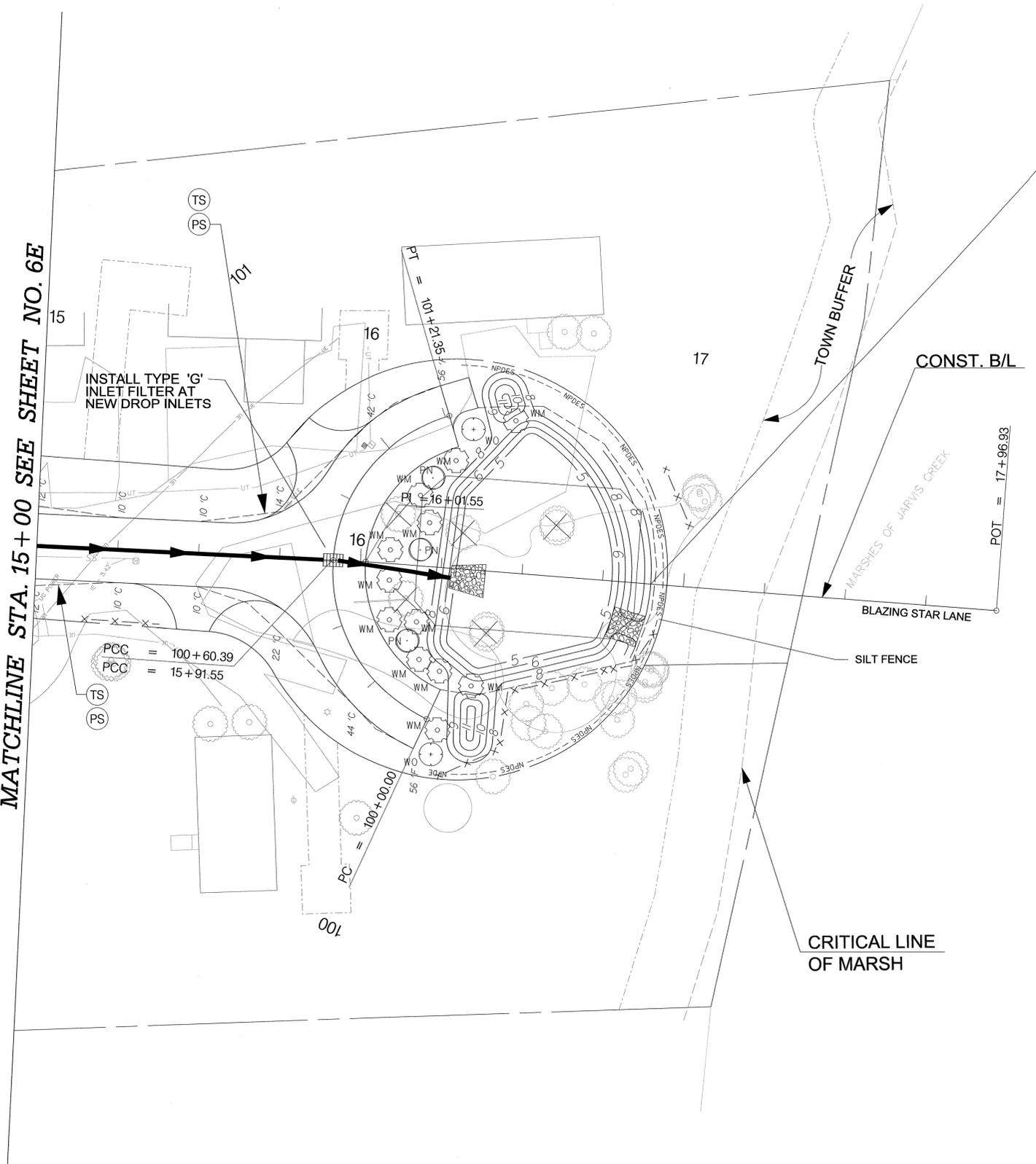
TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

PLAN SHEET

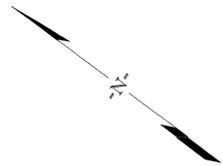
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

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MATCHLINE STA. 15+00 SEE SHEET NO. 6E



SURVEY STA. 16+89.88 END
PROJECT BLAZING STAR LANE

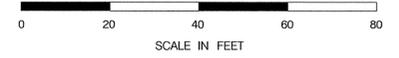


PROPOSED IMPROVEMENTS LEGEND

(PS)	PERMANENT SEEDING	(TS)	TEMPORARY SEEDING
[Pattern]	OUTLET PROTECTION	[Symbol]	TREE REMOVAL
STORM SEWER		[Arrow]	
TREE PROTECTION		[X-Chain]	
SILT FENCE		[Dashed Line]	
LIMITS OF DISTURBANCE		[Dotted Line]	

PLANT LIST

SYM.	KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
(+)	WO	2	QUERCUS PHELLOS	WILLOW OAK	3-4' CAL.	10-12' TALL
(O)	PN	3	PINUS	LOBLOLY PINE	3-4' CAL.	10-12' TALL
(*)	WM	12	MYRICA CERIFERA	WAX MYRTLE	7 GAL.	MULTI-STEM



NOTES:

- SEE SHEET 4 FOR GEOMETRIC LAYOUT.
- USE INLET FILTER TYPE 'A' ON ALL NEW DROP INLETS.
- INSTALL TEMPORARY EROSION CONTROL BLANKET ON POND FILL SLOPES

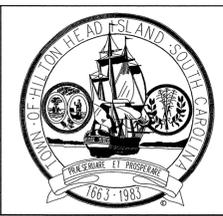
A. Q. Livingston
5/25/16

SCALE: 1" = 20'

INFRASTRUCTURE CONSULTING & ENGINEERING

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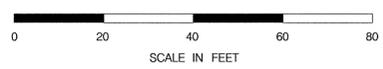
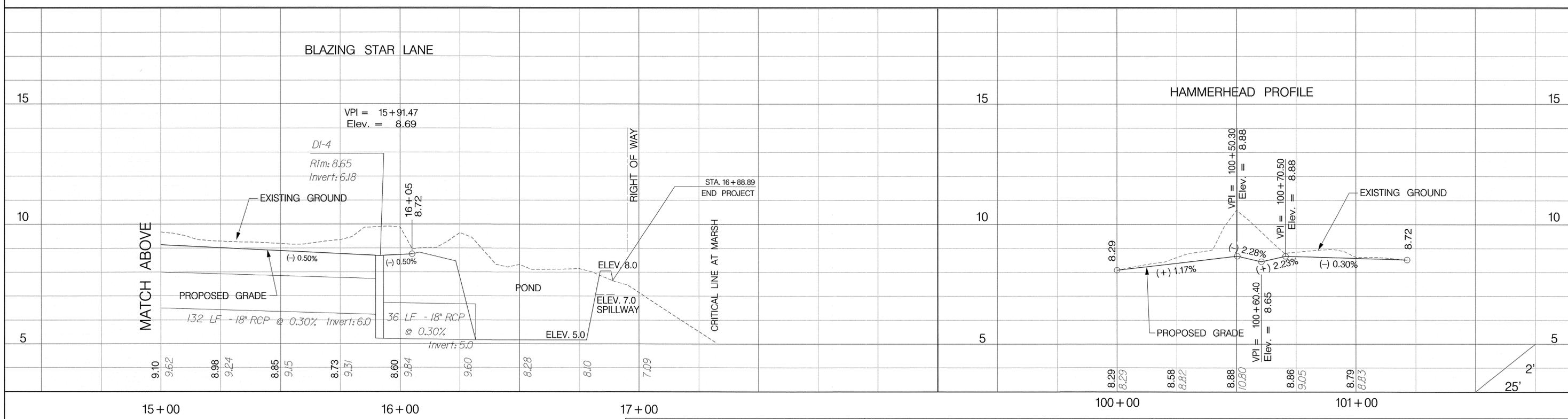
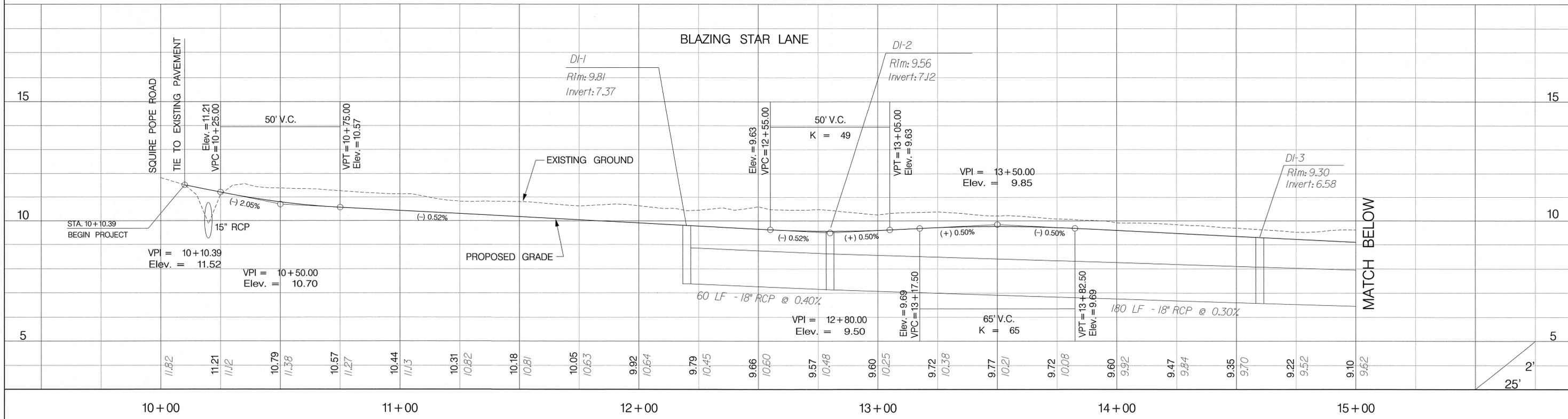
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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

EROSION CONTROL PLAN SHEET

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS



SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 26136
ANDREW O. LIVINGSTON

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 4410
5/25/16

SCALE: 1" = 20'

INFRASTRUCTURE CONSULTING & ENGINEERING

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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

PROFILE SHEET

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

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5/23/2016

REFERENCES

NATIONAL DOCUMENTS

ASTM C55, ASTM A706, AASHTO M55, AASHTO M105, AASHTO M306, AASHTO M111

SCDOT DOCUMENTS

QUALIFIED PRODUCT LIST 14, QUALIFIED PRODUCT LIST 13

RELATED DRAWINGS & KEYWORDS

719-110-01 TO 719-11-02, 719-105-01, 719-550-00, 719-420-00, 719-425-00, 719-305-00, 719-310-00

PRECONSTRUCTION SUPPORT ENGINEER



E. S. Ely
SIGNATURE
MARCH 3, 2008
DATE

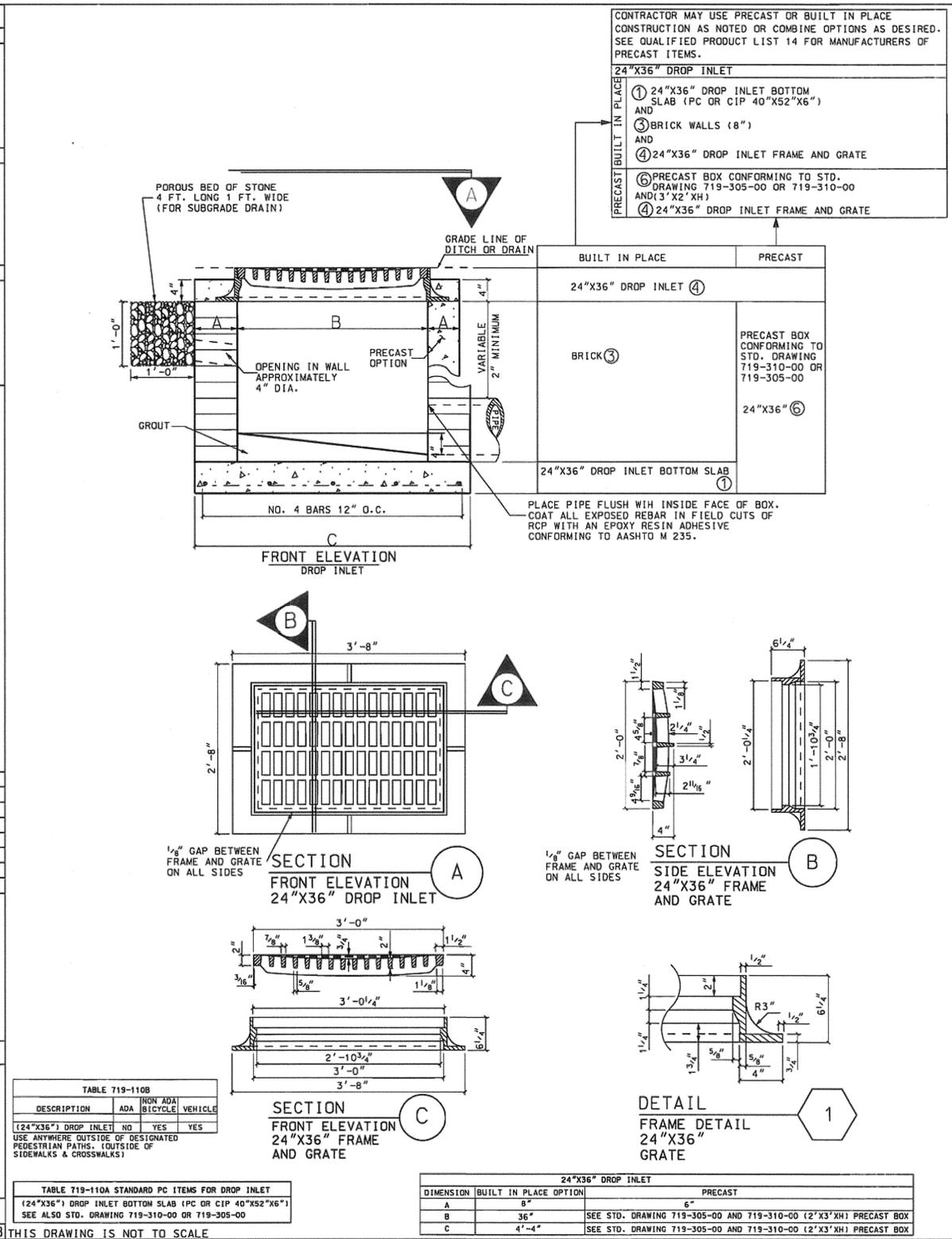
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STANDARD DRAWING

DROP INLET (24"X36") DETAILS

719-110-01
EFFECTIVE LETTING DATE MAY 2008



- NOTES:**
- SEE 719-105-01 FOR DROP INLET (24X24). FOR BUILT IN PLACE CONSTRUCTION OF THE CATCH BASIN WALLS, EITHER BRICK MASONRY (WALLS ONLY) OR CIP CLASS 3000 CONCRETE MAY BE USED. FOR PRECAST CONSTRUCTION, A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED.
 - CONCRETE WALLS ARE TO BE 6" THICK WITH A MINIMUM REINFORCING STEEL AREA 0.20 SQUARE INCHES PER FOOT UNLESS NOTED. FOR BRICK, THE WALLS ARE TO BE 8" THICK CONCRETE BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 55, GRADE S-11. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR EITHER TYPE OF CONSTRUCTION.
 - THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6" THICK REINFORCED CONCRETE (CLASS 3000 OR 4000P) WITH A REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT. WIRE MESH BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQUARE INCHES PER FOOT IS MET.
 - MORTAR SHALL BE TYPE S OR M.
 - REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M.
 - SEE STANDARD DRAWING 719-550-00 FOR STEPS, WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6".
 - SEE STANDARD DRAWINGS 719-420-00 AND 719-425-00 FOR DEPTHS GREATER THAN 12'. PRECAST CONCRETE CIRCULAR DRAINAGE STRUCTURES ARE REQUIRED WHEN THE DEPTH FROM THE TOP OF THE DRAINAGE BOX BOTTOM SLAB TO THE TOP OF THE GROUND EXCEEDS 12'-0".
 - LOCATION AND SIZE OF PIPES ARE SITE SPECIFIC. (SEE DRAINAGE PLANS). THE BOTTOM OF THE CATCH BASIN IS TO BE GROUTED TO THE LOWEST FLOW LINE ELEVATION OF ALL PIPES. BOTTOM SLAB IS CAST IN PLACE WITH PIPES INSTALLED. BOTTOM SLAB THICKNESS MUST BE ACHIEVED BEYOND PIPE OUTSIDE DIAMETER.
 - THE FLOOR OF THE BASIN SHALL SLOPE IN THE DIRECTION OF THE OUTLET PIPE AS SHOWN AND THE INSIDE OF OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN.
 - SEE STANDARD DRAWING 719-305-00 OR 719-310-00 FOR MAXIMUM PIPE DIAMETERS. THE PIPE SIZES SHOWN ARE MAXIMUM FOR BRICK AND PRECAST BOXES WHEN PIPE ENTERS PERPENDICULAR AND AT THE CENTER OF THE BOX WALL. CONTRACTOR SHOULD CONFIRM THAT PIPE USED FITS APPROPRIATELY INTO BOX.
- FRAME AND GRATE NOTES:**
- ALL CASTINGS SHALL CONFORM TO AASHTO M 105, CLASS 35B AND THE SPECIFICATIONS OF AASHTO M 306
 - (a) STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING (NOTE 12d) AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS. (QUALIFIED PRODUCT LIST 45)
 - (b) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
 - (c) STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME.
 - (d) STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET AASHTO M 306
 - (e) MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S QUALIFIED PRODUCT LIST SHOULD CONTACT THE MATERIALS AND RESEARCH ENGINEER FOR PROCEDURES.
 - THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE DIRECTION OF FLOW, IF PRACTICABLE. THIS GRATE IS NOT SUITABLE FOR PEDESTRIAN TRAFFIC BECAUSE GRATE OPENINGS EXCEED 1/2".
 - AS SHOWN BY THIS DRAWING, THE FRAME IS SET LEVEL, BUT THE RESIDENT CONSTRUCTION ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.
 - AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING.
 - ALL MANUFACTURING PROCESSES FOR THE FRAME AND GRATE MUST OCCUR IN THE UNITED STATES.
- PRECAST NOTES:**
- THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX OR STRUCTURE FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
 - LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.
 - THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM THE LIST ON QUALIFIED PRODUCT LIST 14 FOR PRECAST ITEMS ON THIS DRAWING.
 - FOLLOW QUALIFIED PRODUCT POLICY 14 IN ORDER TO BE LISTED ON QUALIFIED PRODUCT LIST 14.
 - CONTRACTOR MAY SUBMIT DESIGN DRAWINGS AND CALCULATIONS FOR MODIFICATIONS TO THIS ITEM ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE ITEMS WILL NOT BE LISTED ON ANY QUALIFIED PRODUCT LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENGINEER FOR REVIEW BY THE ENGINEER OF RECORD.
 - JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH 1/2" GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (FROM QUALIFIED PRODUCT LIST 13.)
- PRECAST INSTALLATION NOTES:**
- BED SHALL BE PREPARED AND COMPACTED FOR PRECAST DRAINAGE STRUCTURE AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS FOR PRECAST ITEMS. ELEVATION OF BEDDING MATERIAL SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATION OF ALL PIPES AND REQUIRED BOX TOP ELEVATION.
 - PLACE AND LEVEL PRECAST BOX OR SLAB.
 - PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.
 - PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS.
 - ANY LOCATION WHERE THE ABOVE REQUIREMENTS CANNOT BE MET SHALL BE COMPLETED USING CAST IN PLACE MATERIALS MEETING THE REQUIREMENTS OF THIS STANDARD DRAWING. ANY ADDITIONAL MATERIAL OR COSTS ASSOCIATED WITH THE USE OF PRECAST SHALL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCDOT.
 - THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS, (BUILT IN PLACE OR PRECAST), AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN, INCLUDING THE CURB AND GUTTER, IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.
 - ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.
 - ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE OUTLET PIPE.
 - AS REQUIRED BY THE PROJECT PLANS.
 - THE PAY ITEM SHALL BE: DROP INLET (24"X36")-----EA
- USE SHEETS 719-110-01 THROUGH 719-110-02 FOR THIS ITEM.

24" X 36" DROP INLET DETAIL

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FOR INFORMATION ONLY

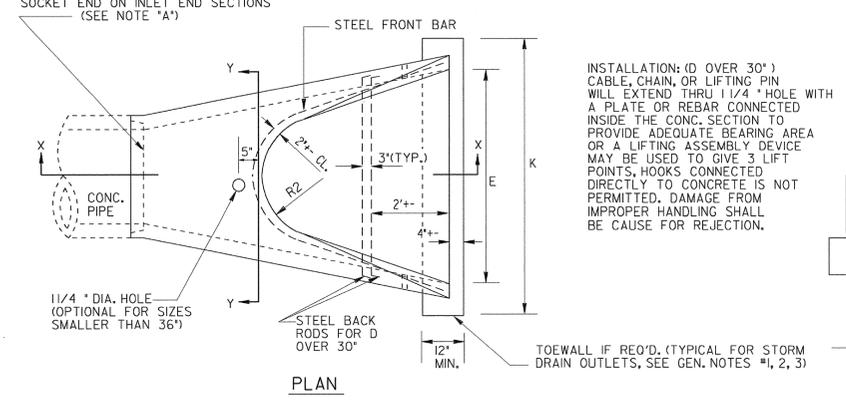


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA
DRAINAGE DETAILS
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

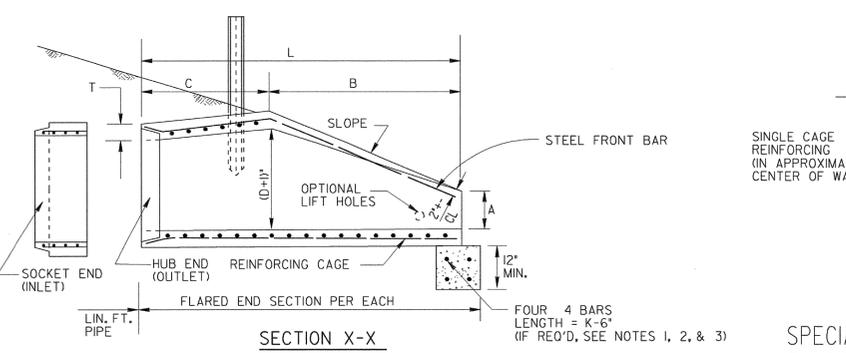
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CONCRETE FLARED END SECTION



NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



NOTE 'A': CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR. FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN. T = PIPE WALL THICKNESS (0.0833D + 1" TYPICAL)

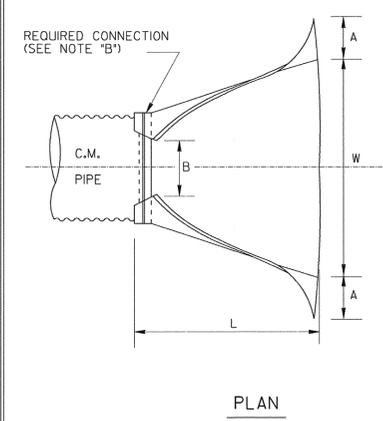
PIPE DIA	DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+/- TOLERANCE)										OUTLET TOEWALL (IF REQ'D)	CU. YDS. CONC.	
	FRONT BAR	BACK RODS	SLOPE +/-	A	B	C	E	P	R1	R2			K = E + 2'
12"	1-#3 x 5' 4"	NOT REQ'D.	2.2d	4'	2'0"	4' 1"	6'1"	2'0"	1'8"	10"	9"	4'-0"	.148
15"	1-#3 x 6' 0"	NOT REQ'D.	2.2d	6'	2'3"	3'10"	6'1"	2'6"	2'0"	10"	11"	4'-6"	.167
18"	1-#3 x 7' 2"	NOT REQ'D.	2.2d	9'	2'3"	3'10"	6'1"	3'0"	2'5"	14"	10"	5'-0"	.185
24"	1-#3 x 9' 10"	NOT REQ'D.	2.4d	10'	3'8"	2' 6"	6'2"	4'0"	2'9"	15"	12"	6'-0"	.222
30"	1-#4 x 11' 8"	NOT REQ'D.	2.4d	12'	4'6"	1' 8"	6'2"	5'0"	3'1"	16"	13"	7'-0"	.259
36"	1-#4 x 13' 10"	2-#4 x 6'3"	2.4d	15'	5'3"	2'11"	8'2"	6'0"	4'0"	18"	18"	8'-0"	.296
42"	1-#4 x 13' 10"	2-#4 x 7'4"	2.4d	21'	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	110"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCER'S OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

* NOTE: 'C' AND 'L' DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.

METAL FLARED END SECTION

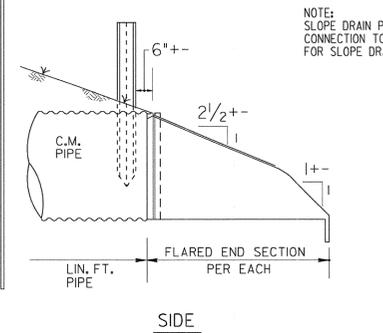
(USE ONLY WITH COR. METAL PIPE)



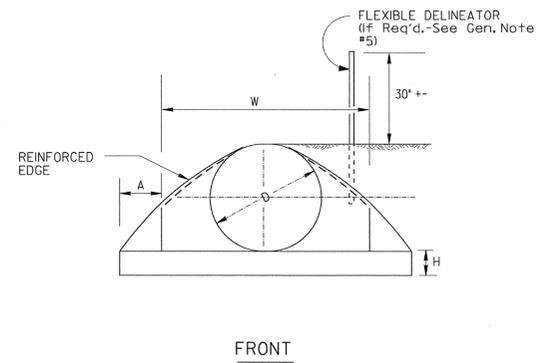
NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

PIPE SIZE "D"	THICKNESS		A = 0.4D +/- 1"	B = 0.5 D +/- 1"	H = 0.25D +/- 1" (MIN. 6")	L = 1.67D +/- 1/2'	W = 2.0D +/- 2"
	GALV. STEEL	ALUM.					
12"	.064"	.060"	5'	6'	6'	1'8"	2'0"
15"	.064"	.060"	6'	7'	6'	2'3"	2'6"
18"	.064"	.060"	7'	9'	6'	2'6"	3'0"
24"	.064"	.060"	9'	10'	6'	3'4"	4'0"
30"	.079"	.105"	10'	13'	7'	4'2"	5'0"
36"	.079"	.105"	12'	16'	9'	5'0"	6'0"
42"	.109"	.164"	15'	19'	10'	5'10"	7'0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=4.75 D TYPICAL) TO PREVENT OVERLAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.



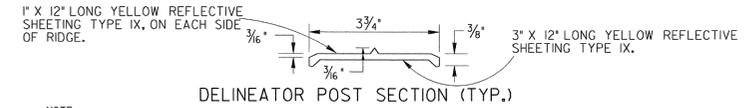
NOTE: SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



SPECIAL NOTE: FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

GENERAL NOTES :

- TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.
- TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS 'A' OR 'B' CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.
- PRECAST TOEWALLS SHALL BE CL. 'A' CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL. 'A' OR 'B' CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.
- CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE, IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.
- FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAYMENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.



NOTE: DELINEATOR POST SHALL CONFORM TO SEC. 91 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

SPECIAL NOTE : PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. 'D' DIMENSION FOR FLARED END SECTION SHALL EQUAL THE 'D' DIMENSION FOR CONNECTING PIPE CULVERT.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
FLARED END SECTIONS
FOR PIPES

NO SCALE REV. & REDR. SEPT., 1999

NUMBER 1120

DES. (SUBMITTED) *[Signature]* STATE ROAD & AIRPORT DESIGN ENGINEER
RETR. (APPROVED) *[Signature]* CHIEF ENGINEER
CHK. _____

NOTE: ALL MATERIALS AND WORKMANSHIP SHOWN ON THIS DRAWING TO CONFORM TO GEORGIA DOT STANDARDS

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FOR INFORMATION ONLY

INFRASTRUCTURE CONSULTING & ENGINEERING

TOWN OF HILTON HEAD ISLAND SOUTH CAROLINA

DRAINAGE DETAILS

BLAZING STAR LANE ROADWAY AND DRAINAGE IMPROVEMENTS

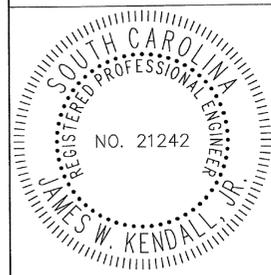
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REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS



James W. Kendall, Jr.
SIGNATURE
2-9-2015
DATE

#	DATE	CHK	DESCRIPTION
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5			
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STANDARD DRAWING
OUTLET PROTECTION WITH DEFINED CHANNEL

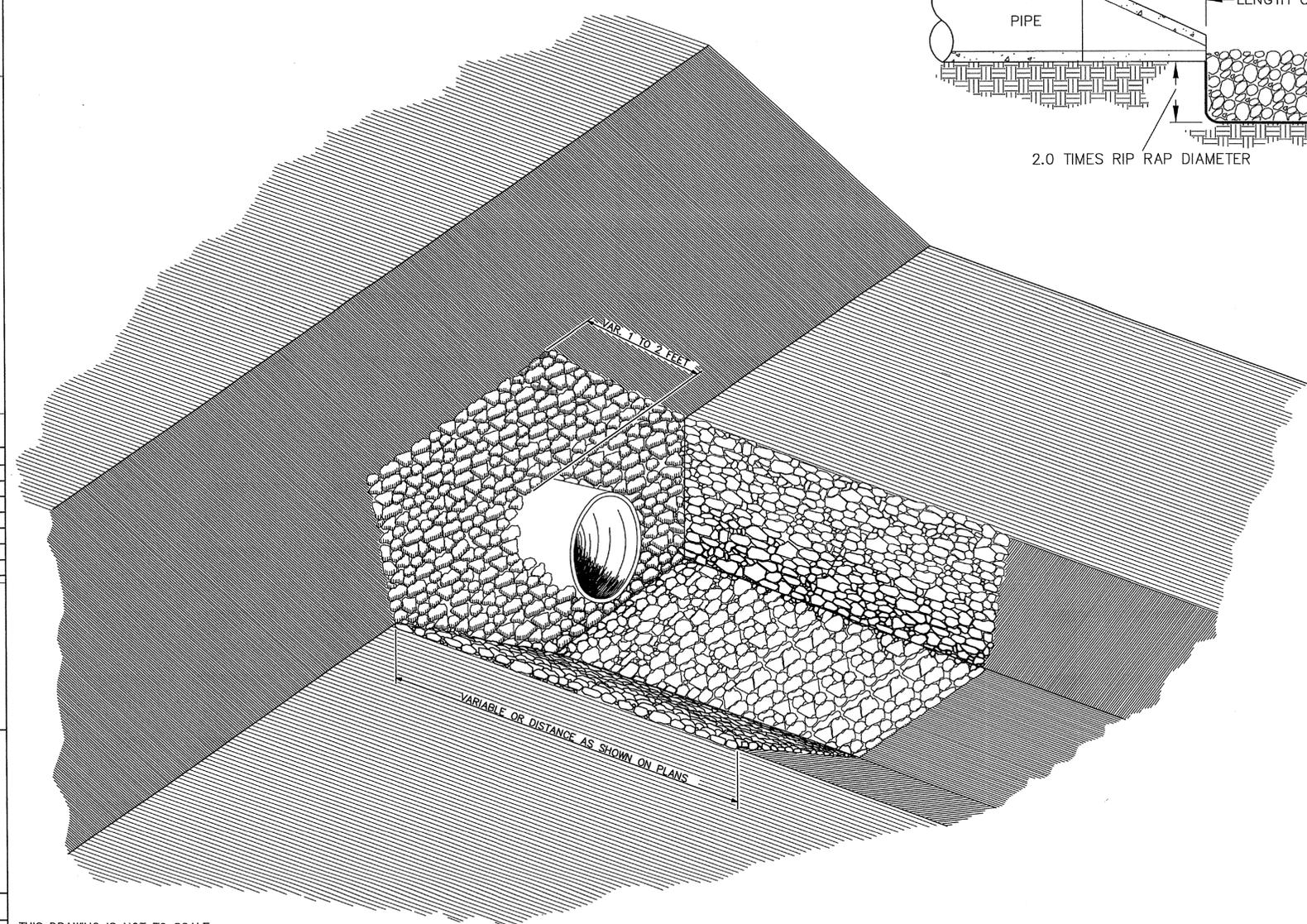
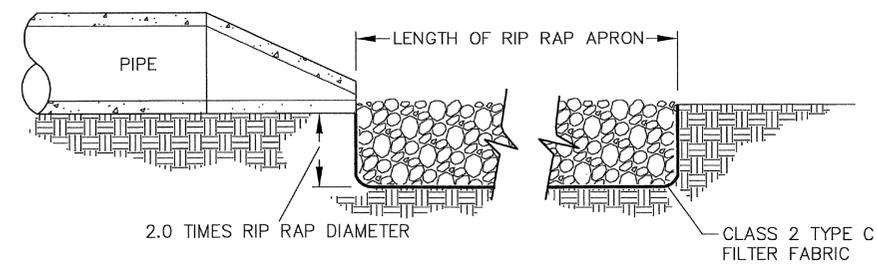
804-310-00
EFFECTIVE LETTING DATE: MAY 2015

THIS DRAWING IS NOT TO SCALE

- NOTES:
1. GEOTEXTILE FABRIC TO BE USED UNDER RIPRAP.
 2. SEE STANDARD DRAWINGS SECTION 719-600-00 FOR ADDITIONAL PIPE END TREATMENT OPTIONS.
 3. THE PAY ITEMS SHALL BE:
 RIPRAP CLASS _____ TON
 GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP CLASS 2 TYPE C S.Y.

**CHART 804-310A
RIPRAP PLACEMENT WITH MINIMUM TAILWATER**

MINIMUM CLASS	D ₅₀ (FT)	MINIMUM THICKNESS (FT)	PIPE DIAMETER
A	0.50	1.00	UP TO 24"
B	0.75	1.50	UP TO 84"
C	1.30	2.60	LARGER THAN 84"



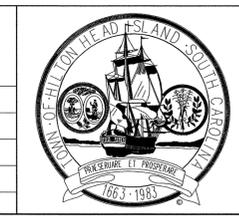
OUTLET PROTECTION

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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA
DRAINAGE DETAILS
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS



Technical Data Sheet

STEP-SAFE®
Precast Polymer Concrete Tactile Dome Safety Tile

Step-Safe® is a pre-cast polymer concrete tile that is designed to alert visually impaired pedestrians of impending hazards in pedestrian travel routes in public buildings and/or public rights-of-way. Step-Safe® complies with the minimum requirements as established by the Access Board and those of the US Department of Justice and the US Department of Transportation as defined in the American with Disabilities Act. Step-Safe® has a proven history of resistance to the effects of abrasion, weather and other environmental conditions. The reverse side of the Step-Safe® tiles has a uniform application of a coarse exposed aggregate to enhance adhesion of the tiles to the Portland cement concrete substrate using an exterior latex-based adhesive material.

Material Design
Step-Safe® tiles are comprised of a polymer concrete composed of specially blended polyester resins, promoters, initiators, and inert aggregate that provide high strength and resistance to corrosive agents such as de-icing chemicals, etc. Step-Safe® polymer concrete has the appropriate coloring agent and/or pigment mixed uniformly throughout so color will not fade due to exposure to abrasion or UV radiation. The aggregate component shall be a gap-graded combination of silica sand and appropriate fillers.

Step-Safe® tiles are available in 300mm x 300mm (11.8" x 11.8") square size and are installed at 12" x 12" with gap for expansion. Tiles are also available in 600mm x 600mm (23.9" x 23.9") square size and are installed at 24" x 24" with gap for expansion. Step-Safe® tiles are available in a variety of standard colors including safety yellow, charcoal gray, forest green, bright white, chocolate brown and brick red. Custom colors are also available as per specific project requirement. Step-Safe® tiles can be custom fit to various radii using standard tile saws. For dome size and configuration details, please see Step-Safe® Drawing.

Installation Procedure

Installation in Freshly Poured Concrete:

1. Pour and place new concrete and finish the surface using trowels as per project requirements.
2. Prior to setting Step-Safe® tiles, remove approx. 1/2" to 3/4" of the fresh concrete in the area where tiles are to be set. This can be done with a hand trowel and will help reduce problems in forcing the tiles into the fresh concrete.
3. Place the Step-Safe® tiles into the freshly poured concrete, evenly in lines parallel to existing edge conditions, or as directed by the architect or engineers drawing. Leave approximately 1/8" gap between adjacent tiles on all sides to accommodate expansion. Tiles should be pressed into the concrete, taking care to assure that the edges of the tile surface are not higher than the surrounding finished concrete surface; only the Truncated Domes should be above the finished concrete surface per ADA specifications. **Do not use hammers to install the tiles.**
4. To assist in the proper installation and uniform elevation of tiles, if necessary, place a piece of plywood over the entire surface and add weight until the concrete has cured.
5. Allow concrete to cure before opening the surface to pedestrian traffic.

Installation on Existing Concrete Surfaces:

1. All contact surfaces should be free of hydrostatic pressure, paint, membranes, oils, curing compounds or any other material, which could impede tile/grout adhesion. Concrete surface must be at least 28 days old. Surfaces must be even, free of projections and in sound condition.
2. Remove the concrete in the area where the Step-Safe® tiles are to be installed. This can be done with grinders, mills or light chipping hammers. The depth of the removal should be equal to the thickness of the Step-Safe® tile (1 1/2") plus the thickness of the tile setting/bonding grout.



3. Follow setting/bonding grout manufacturer's recommendations and instructions for mixing and application. Apply the specified setting/bonding material and maintain uniform thickness to assure proper tile elevation with surrounding concrete surfaces.
4. Place the Step-Safe® tiles evenly in lines parallel to existing edge conditions or as directed by the architect or engineers drawing. Leave approximately 1/8" gap between adjacent tiles on all sides to accommodate expansion. Tiles should be pressed into the setting/bonding grout taking care to assure that the edges of the tile surface are not higher than the surrounding concrete surface; only the Truncated Domes should be above the concrete surface as per ADA specifications. **Do not use hammers to install the tiles.**
5. To assist in the proper installation and uniform elevation of tiles, if necessary, place a piece of plywood over the entire tile surface and add weight until the setting/bonding grout has cured.
6. Allow the setting/bonding grout to cure before opening to traffic.

Note: Alternatively, retrofit applications can also be installed by cutting a 2' x 4' full-depth section of the existing concrete ramp (where ADA tiles would be installed) and pouring/placing new concrete with Step-Safe tiles. This would not only ensure faster construction but also eliminate the need for repairing the entire sidewalk.

Property	Value	Method
Compressive Strength	10,000 psi min.	ASTM C579 Method B
Flexural Strength	3,000 psi min.	ASTM C384
Tensile Strength	1,800 psi min.	ASTM C307
Impact Strength	100 ft. lbs. min.	ASTM D2444
Water Absorption	0.2% max.	ASTM D570
Slip Resistance	0.80 min. wet/dry	ASTM C1028
Freeze-Thaw Resistance	No Change	ASTM C666
Fire Test	Flame Spread < 50, Smoke Developed < 70 Class A Rating	ASTM E84-87, UL723, NFPA255, UBC 42.1

* To be used as general guidelines only

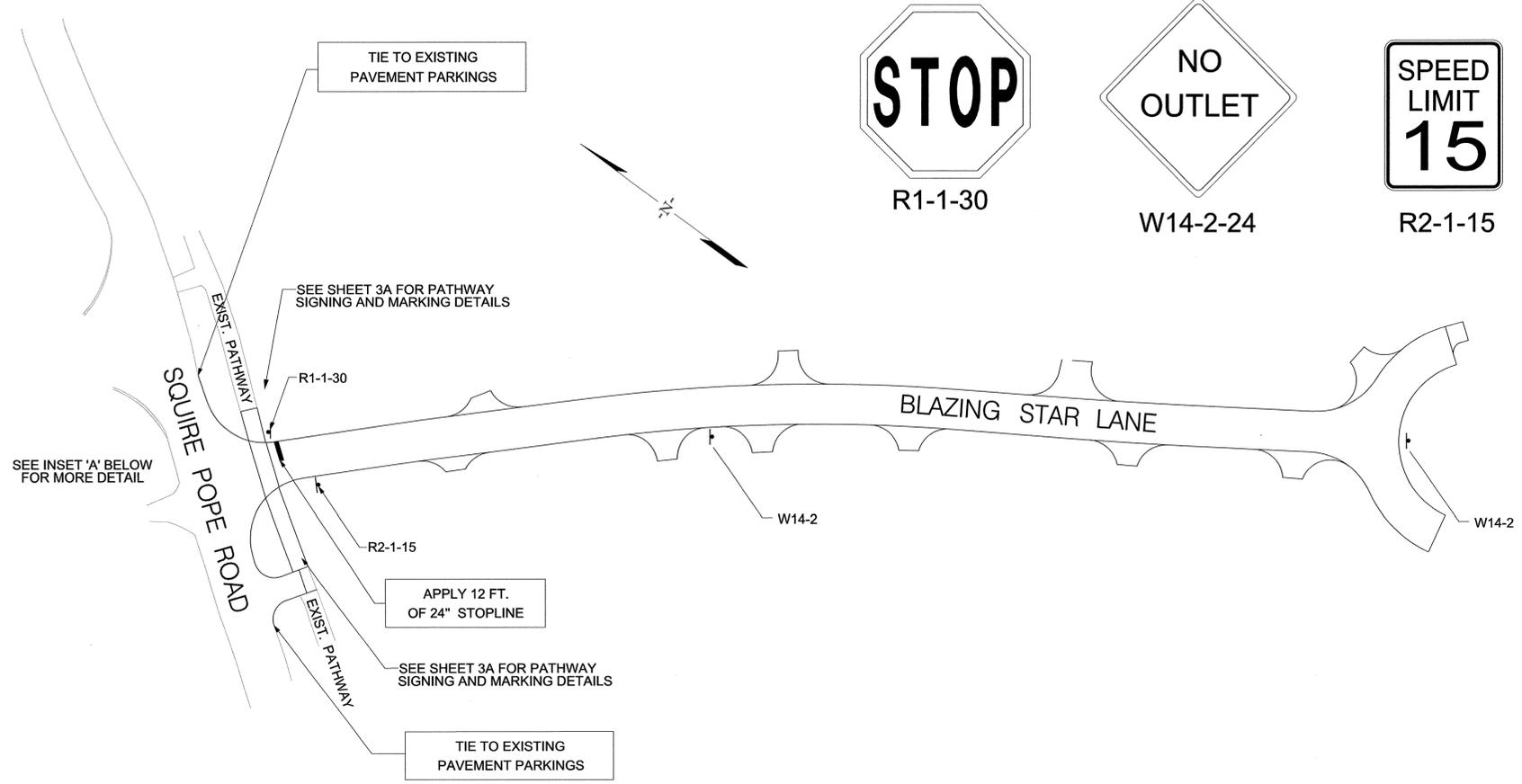
Packaging
Step-Safe® 12" x 12" tiles are packaged in a box of 10 tiles. Each tile weighs approximately 6 pounds. The gross weight of the 10-tile box is approximately 65 pounds. Step-Safe® 24" x 24" tiles are packaged in a crate of 8 tiles. Each tile weighs approximately 24 pounds. The gross weight of the 8-tile crate is approximately 210 pounds.

Storage
Step-Safe® tiles shall be stored indoors in a cool, dry environment in its original packaging. Care must be taken to ensure that tiles are not damaged during inventory.

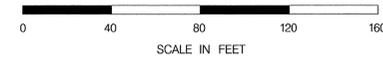
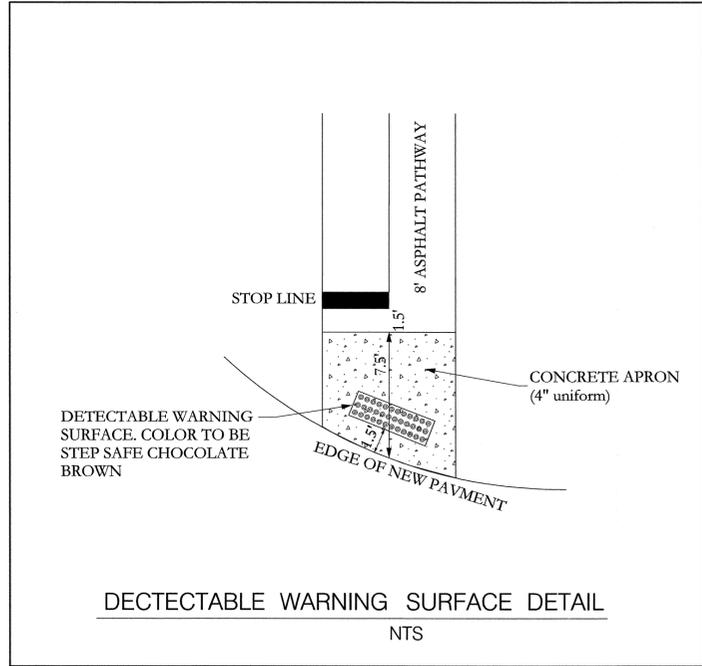
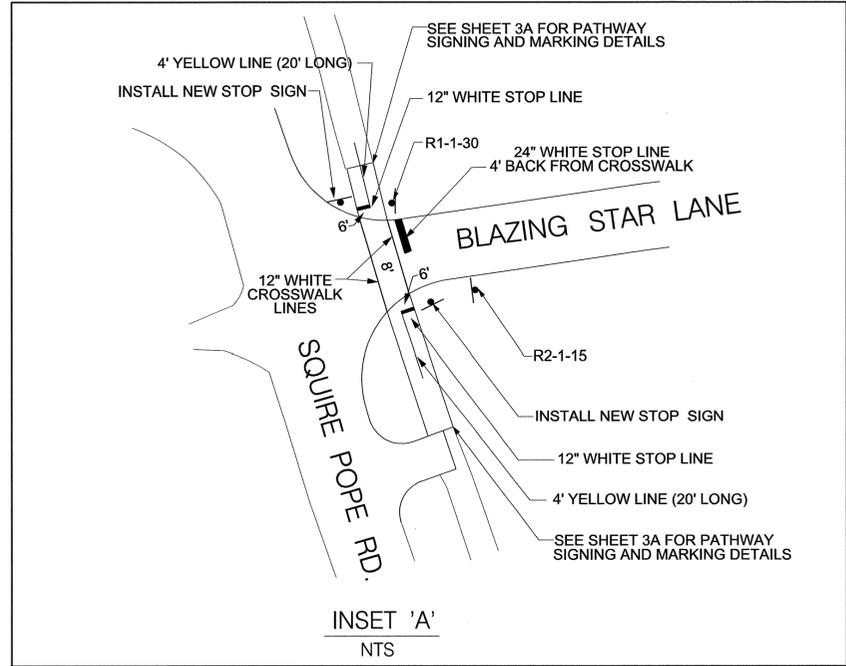
Warranty
The following warranty is made in lieu of all other warranties, either expressed or implied. Step-Safe® is warranted for a period of five (5) years from the date of shipment. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that proves to be defective. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from the use of this product.

* See full manufacturer's warranty. 02/13

Tel: 914-636-1000 Fax: 914-636-1282
Web: http://www.transppo.com Email: info@transppo.com



SEE INSET 'A' BELOW FOR MORE DETAIL

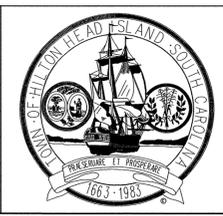


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REV. NO. BY DATE DESCRIPTION OF REVISION



TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA
PAVEMENT MARKING AND SIGNING SHEET
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	BEAUFORT		BLAZING STAR LN	TC1

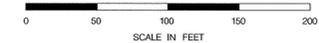
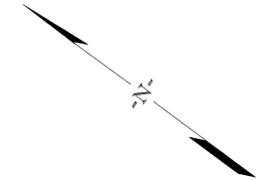
SEE SHEET TC 2 AND SCDOT STANDARD DRAWINGS FOR TRAFFIC CONTROL DETAILS

USE SCDOT PERMANENT CONSTRUCTION SIGNS - SCHEME "D"
SEE SCDOT STANDARD DRAWING 605-010-02

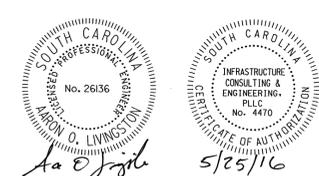
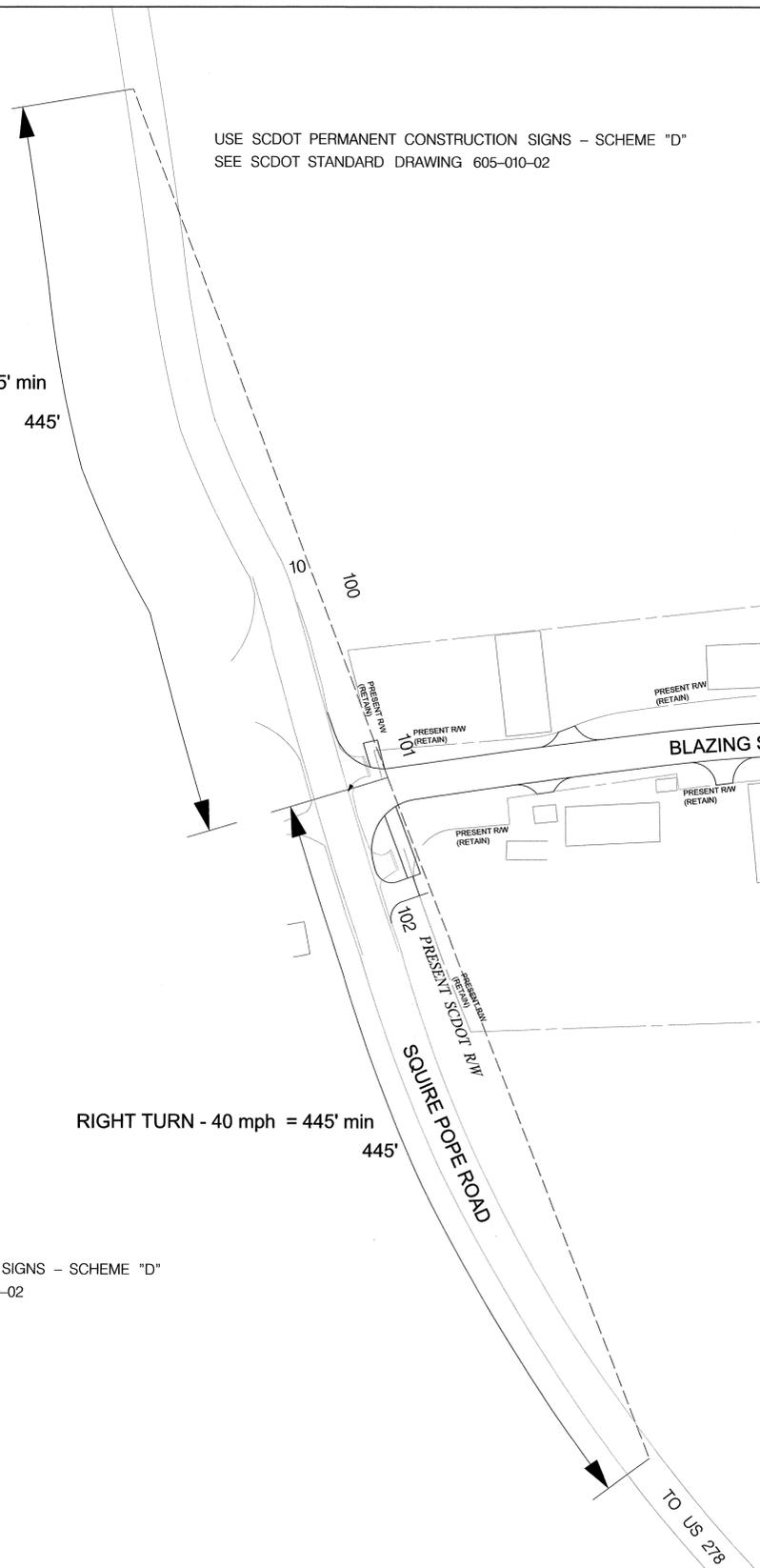
LEFT TURN - 40 mph = 445' min
445'

RIGHT TURN - 40 mph = 445' min
445'

USE SCDOT PERMANENT CONSTRUCTION SIGNS - SCHEME "D"
SEE SCDOT STANDARD DRAWING 605-010-02



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5/23/2016



SCALE: 1" = 50'

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CONSULTING & ENGINEERING

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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA
TRAFFIC CONTROL /SITE DISTANCE PLAN
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
NO. 24242
WILLIE E. McCONNELL, JR.

W. McConnell
SIGNATURE
7/27/15
DATE

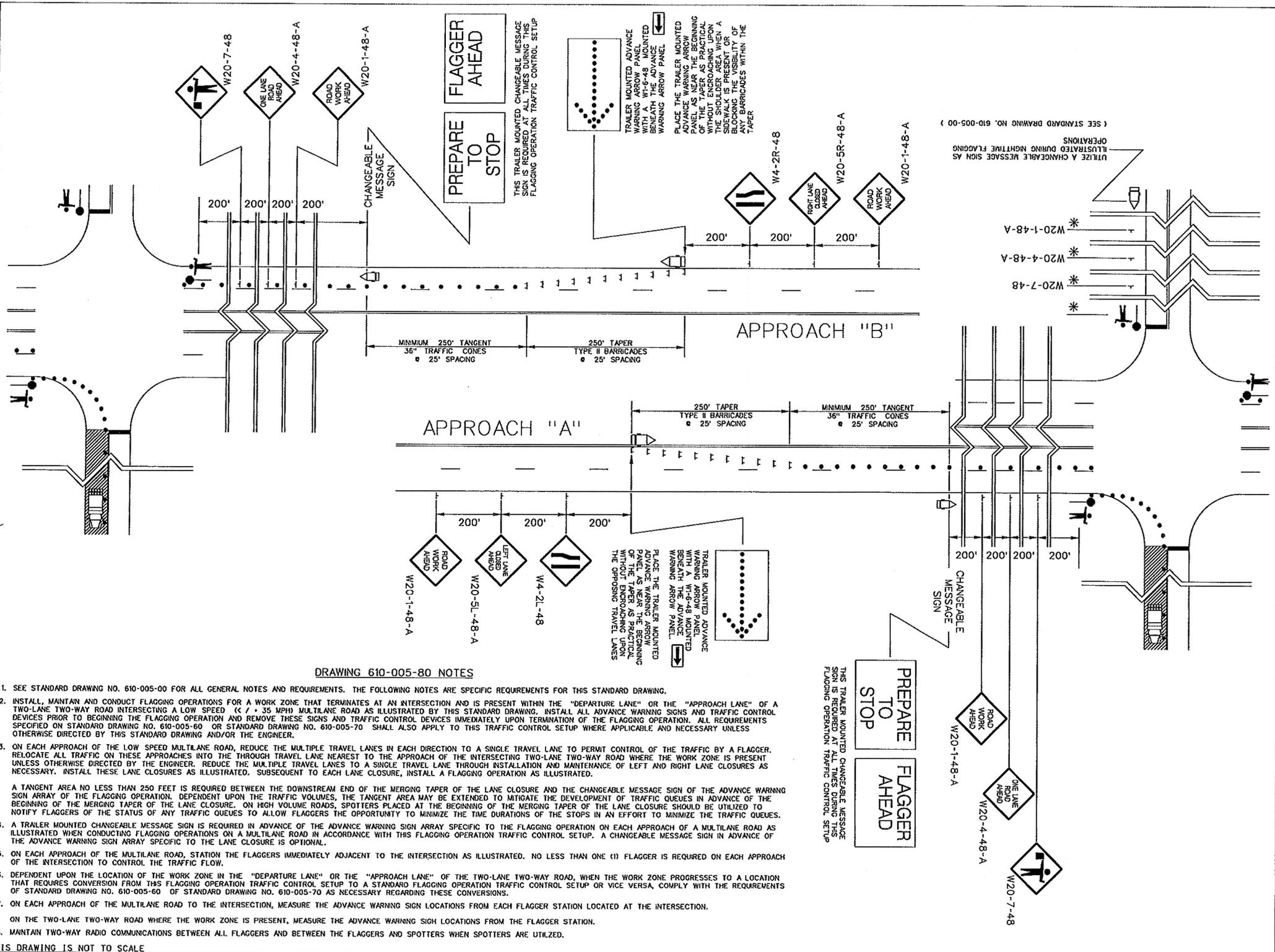
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0	8-12-14	JCS	NEW DRAWING
#	DATE	CHK	DESCRIPTION

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS
STOP SIGN
CONTROLLED
INTERSECTIONS with
LOW SPEED
< / = 35 MPH
MULTILANE ROADS

610-005-80
EFFECTIVE LETTING DATE: JAN 2016



DRAWING 610-005-80 NOTES

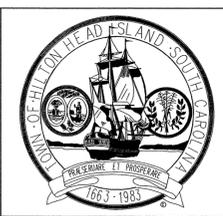
- SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS. THE FOLLOWING NOTES ARE SPECIFIC REQUIREMENTS FOR THIS STANDARD DRAWING.
 - INSTALL, MAINTAIN AND CONDUCT FLAGGING OPERATIONS FOR A WORK ZONE THAT TERMINATES AT AN INTERSECTION AND IS PRESENT WITHIN THE "DEPARTURE LANE" OR THE "APPROACH LANE" OF A TWO-LANE TWO-WAY ROAD INTERSECTING A LOW SPEED (< / = 35 MPH) MULTILANE ROAD AS ILLUSTRATED BY THIS STANDARD DRAWING. INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES PRIOR TO BEGINNING THE FLAGGING OPERATION AND REMOVE THESE SIGNS AND TRAFFIC CONTROL DEVICES IMMEDIATELY UPON TERMINATION OF THE FLAGGING OPERATION. ALL REQUIREMENTS SPECIFIED ON STANDARD DRAWING NO. 610-005-60 OR STANDARD DRAWING NO. 610-005-70 SHALL ALSO APPLY TO THIS TRAFFIC CONTROL SETUP WHERE APPLICABLE AND NECESSARY UNLESS OTHERWISE DIRECTED BY THIS STANDARD DRAWING AND/OR THE ENGINEER.
 - ON EACH APPROACH OF THE LOW SPEED MULTILANE ROAD, REDUCE THE MULTIPLE TRAVEL LANES IN EACH DIRECTION TO A SINGLE TRAVEL LANE TO PERMIT CONTROL OF THE TRAFFIC BY A FLAGGER. RELOCATE ALL TRAFFIC ON THESE APPROACHES INTO THE THROUGH TRAVEL LANE NEAREST TO THE APPROACH OF THE INTERSECTING TWO-LANE TWO-WAY ROAD WHERE THE WORK ZONE IS PRESENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REDUCE THE MULTIPLE TRAVEL LANES TO A SINGLE TRAVEL LANE THROUGH INSTALLATION AND MAINTENANCE OF LEFT AND RIGHT LANE CLOSURES AS NECESSARY. INSTALL THESE LANE CLOSURES AS ILLUSTRATED. SUBSEQUENT TO EACH LANE CLOSURE, INSTALL A FLAGGING OPERATION AS ILLUSTRATED.
A TANGENT AREA NO LESS THAN 250 FEET IS REQUIRED BETWEEN THE DOWNSTREAM END OF THE MERGING TAPER OF THE LANE CLOSURE AND THE CHANGEABLE MESSAGE SIGN OF THE ADVANCE WARNING SIGN ARRAY OF THE FLAGGING OPERATION. DEPENDENT UPON THE TRAFFIC VOLUMES, THE TANGENT AREA MAY BE EXTENDED TO MITIGATE THE DEVELOPMENT OF TRAFFIC QUEUES IN ADVANCE OF THE BEGINNING OF THE MERGING TAPER OF THE LANE CLOSURE. ON HIGH VOLUME ROADS, SPOTTERS PLACED AT THE BEGINNING OF THE MERGING TAPER OF THE LANE CLOSURE SHOULD BE UTILIZED TO NOTIFY FLAGGERS OF THE STATUS OF ANY TRAFFIC QUEUES TO ALLOW FLAGGERS THE OPPORTUNITY TO MINIMIZE THE TIME DURATIONS OF THE STOPS IN AN EFFORT TO MINIMIZE THE TRAFFIC QUEUES.
 - A TRAILER MOUNTED CHANGEABLE MESSAGE SIGN IS REQUIRED IN ADVANCE OF THE ADVANCE WARNING SIGN ARRAY SPECIFIC TO THE FLAGGING OPERATION ON EACH APPROACH OF A MULTILANE ROAD AS ILLUSTRATED WHEN CONDUCTING FLAGGING OPERATIONS ON A MULTILANE ROAD IN ACCORDANCE WITH THIS FLAGGING OPERATION TRAFFIC CONTROL SETUP. A CHANGEABLE MESSAGE SIGN IN ADVANCE OF THE ADVANCE WARNING SIGN ARRAY SPECIFIC TO THE LANE CLOSURE IS OPTIONAL.
 - ON EACH APPROACH OF THE MULTILANE ROAD, STATION THE FLAGGERS IMMEDIATELY ADJACENT TO THE INTERSECTION AS ILLUSTRATED. NO LESS THAN ONE (1) FLAGGER IS REQUIRED ON EACH APPROACH OF THE INTERSECTION TO CONTROL THE TRAFFIC FLOW.
 - DEPENDENT UPON THE LOCATION OF THE WORK ZONE IN THE "DEPARTURE LANE" OR THE "APPROACH LANE" OF THE TWO-LANE TWO-WAY ROAD, WHEN THE WORK ZONE PROGRESSES TO A LOCATION THAT REQUIRES CONVERSION FROM THIS FLAGGING OPERATION TRAFFIC CONTROL SETUP TO A STANDARD FLAGGING OPERATION TRAFFIC CONTROL SETUP OR VICE VERSA, COMPLY WITH THE REQUIREMENTS OF STANDARD DRAWING NO. 610-005-60 OF STANDARD DRAWING NO. 610-005-70 AS NECESSARY REGARDING THESE CONVERSIONS.
 - ON EACH APPROACH OF THE MULTILANE ROAD TO THE INTERSECTION, MEASURE THE ADVANCE WARNING SIGN LOCATIONS FROM EACH FLAGGER STATION LOCATED AT THE INTERSECTION.
ON THE TWO-LANE TWO-WAY ROAD WHERE THE WORK ZONE IS PRESENT, MEASURE THE ADVANCE WARNING SIGN LOCATIONS FROM THE FLAGGER STATION.
 - MAINTAIN TWO-WAY RADIO COMMUNICATIONS BETWEEN ALL FLAGGERS AND BETWEEN THE FLAGGERS AND SPOTTERS WHEN SPOTTERS ARE UTILIZED.
- THIS DRAWING IS NOT TO SCALE

(SEE STANDARD DRAWING NO. 610-005-00)
UTILIZE A CHANGEABLE MESSAGE SIGN AS ILLUSTRATED DURING NIGHTTIME FLAGGING OPERATIONS

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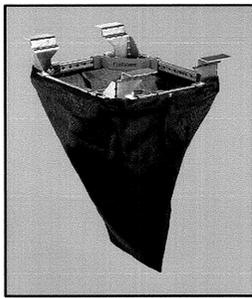
TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

TRAFFIC CONTROL
PLAN SHEET

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

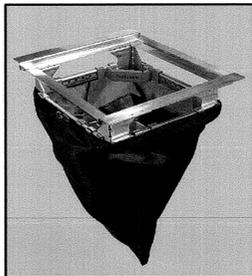
FLEXSTORM SOUTH CAROLINA PRODUCT SELECTION GUIDE

CAROLINA DOT STANDARDS



CATCH-IT® REUSABLE INLET PROTECTION

DOT Standard	Drawing Index	USF P/N	Inlet Type	Grate Size	Opening Size	Flexstorm Item Code	ADS P/N
Type 1	719-1	5125-6173	Curb Box	36.5 x 24.375	35.0 x 29.125	C-SQCB-365-244-350-291-FX	62LCBFX
Type 14	719-8	4646-6405	Square/Rect	24.0 Æ	24.0 Æ	C-HD2L-263-230-240-233-FX	62MSQFX
Type 15	719-9	4647-6264	Square/Rect	46.0 x 26.25	43.0 x 23.0	C-HD4-460-263-430-230-FX	62LSQFX
Drop Inlet (24 x 24)	719-10	4171-6249	Square/Rect	24.0 x 24.0	22.75 x 22.75	C-SQ-240-240-228-228-FX	62MSQFX
Drop Inlet (24 x 36)	719-10	4138-6218	Square/Rect	36.0 x 24.0	34.5 x 22.5	C-SQ-360-240-345-225-FX	62LSQFX
NC 840.03	--	5181	Curb Box	36.5 x 23.75	34.5 x 21.75	C-SQCB-365-234-345-218-FX	62LCBFX

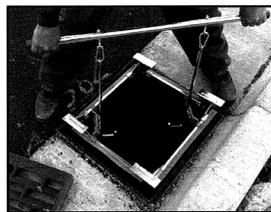


PURE PERMANENT INLET PROTECTION

DOT Standard	Drawing Index	USF P/N	Inlet Type	Grate Size	Opening Size	Flexstorm Item Code - Bag P/N	ADS P/N (FX)	ADS P/N (FXP)	ADS P/N (PC)	ADS P/N (PCP)
Type 1	719-1	5125-6173	Curb Box	36.5 x 24.375	35.0 x 29.125	P-SQCB-365-244-350-291-"Bag P/N"	62LHDCBFX	62LHDCBFXP	62LHDCBPC	62LHDCBPCP
Type 14	719-8	4646-6405	Square/Rect	26.25 x 23.0	24.0 x 23.25	P-HD2L-263-230-240-233-"Bag P/N"	62MHDFX	62MHDFXP	62MHDPC	62MHDPCP
Type 15	719-9	4647-6264	Square/Rect	46.0 x 26.25	43.0 x 23.0	P-HD4-460-263-430-230-"Bag P/N"	62LHDFX	62LHDFXP	62LHDPC	62LHDPCP
Drop Inlet (24 x 24)	719-10	4171-6249	Square/Rect	24.0 x 24.0	22.75 x 22.75	P-SQ-240-240-228-228-"Bag P/N"	62MHDFX	62MHDFXP	62MHDPC	62MHDPCP
Drop Inlet (24 x 36)	719-10	4138-6218	Square/Rect	36.0 x 24.0	34.5 x 22.5	P-SQ-360-240-345-225-"Bag P/N"	62LHDFX	62LHDFXP	62LHDPC	62LHDPCP
NC 840.03	--	5181	Curb Box	36.5 x 23.75	34.5 x 21.75	P-SQCB-365-234-345-218-"Bag P/N"	62LHDCBFX	62LHDCBFXP	62LHDCBPC	62LHDCBPCP

PURE BAG SELECTION GUIDE

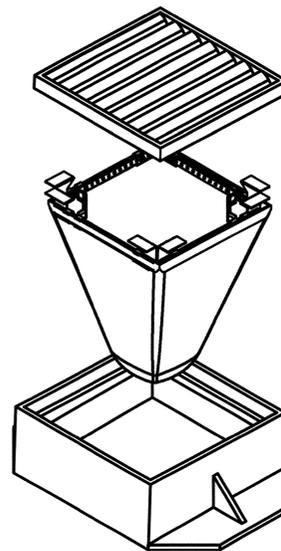
Bag P/N	Description
FX	Flexstorm's standard woven bag for temporary or permanent applications where high flow rates and lower maintenance is desired.
FX+ (FXP)	FX bag + additional Hydrocarbon Removal media for low to moderate levels of hydrocarbon removal.
PC	'Post Construction' bag lined with Adsorb-it Filter fabric to specifically target small particle and hydrocarbon removal.
PC+ (PCP)	PC bag + additional Hydrocarbon Removal media for high levels of hydrocarbon removal.



INSTALLATION:

1. REMOVE GRATE WITH UNIVERSAL MAINTENANCE TOOL.
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING.
3. REPLACE GRATE

TO ORDER CONTACT YOUR LOCAL ADS SALES REP: JEFF HARTZOG
JEFF.HARTZOG@ADS-PIPE.COM
843-615-0731



APPROVED BY SCDOT FOR TYPE G SUSPENDED INLET FILTER (QPL 58)

	ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM		
	SIZE C	STATE SC	DWG NO SCDOT-CROSSREF
<small>THIS PRINT INCLUDES SUBJECT MATTER IN WHICH FLEXSTORM HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE A LICENSE TO THE USE OF THIS DESIGN OR TECHNICAL INFORMATION HEREIN BEYOND REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN OR MANUFACTURE OF ANY ARTICLES REFERRED TO IN THIS DOCUMENT TO WHICH IS FORWARDED, EXCEPT BY WRITTEN PERMISSION FROM FLEXSTORM. ©2013 ADS, INC.</small>		REV A	SHEET 1 OF 1

TYPE 'G' INLET FILTER

FOR INFORMATION ONLY

INFRASTRUCTURE
CONSULTING & ENGINEERING



TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

EROSION CONTROL DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1			

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

SC-M-815-10

RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER



James W. Kendall, Jr.
SIGNATURE

AUGUST 23, 2012
DATE

6			
5			
4			
3			
2			
1	8/2012	DSO	ADDED CHART 815-505
0	3/2008	DSO	GENERAL REVISIONS
#	DATE	CHK	DESCRIPTION



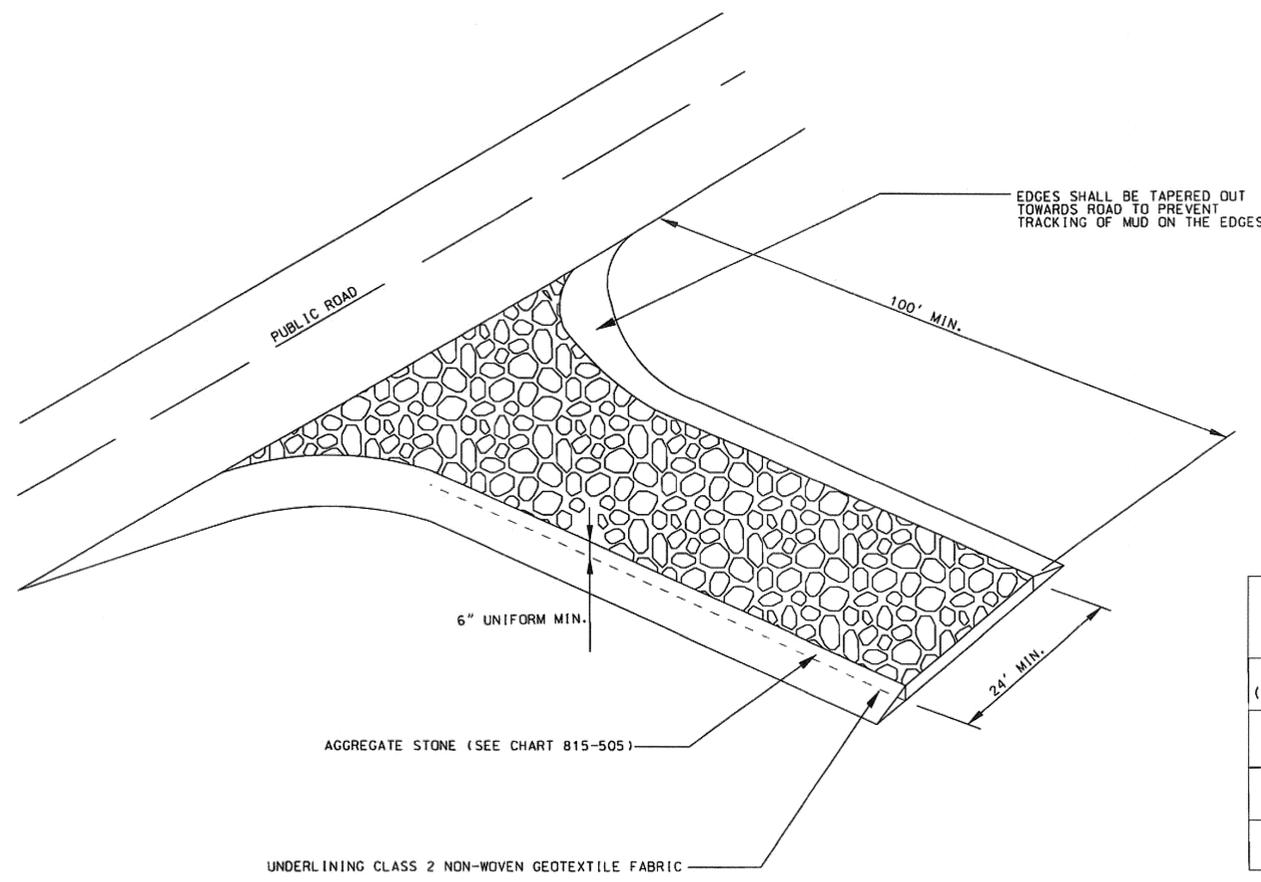
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

STABILIZED CONSTRUCTION ENTRANCE

815-505-00

EFFECTIVE LETTING DATE: JAN 2013 THIS DRAWING IS NOT TO SCALE



- NOTES:
1. STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.
 2. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDOT 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.
 3. REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
 4. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.
 5. INSTALL A CLASS 2 NON-WOVEN GEOTEXTILE FABRIC THAT MEETS THE REQUIREMENTS OF SECTION 804 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, PRIOR TO PLACING ANY STONE.
 6. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FT WIDE X 100-FT LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
 7. INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS. CHECK FOR MUD AND SEDIMENT BUILDUP, AS WELL AS PAD INTEGRITY. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 8. WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE ENGINEER. 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.
 9. 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.
 10. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.
 11. THE PAY ITEM SHALL BE:
STABILIZED CONSTRUCTION ENTRANCE----- S.Y.

CHART 815-505
STABILIZED CONSTRUCTION ENTRANCE STONE AGGREGATE

NOMINAL SIZE (SIEVES WITH SQUARE OPENINGS)	PERCENT PASSING (%)
3"	100
1-1/2"	35 TO 100
3/4"	0 TO 15

STABILIZED CONSTRUCTION ENTRANCE

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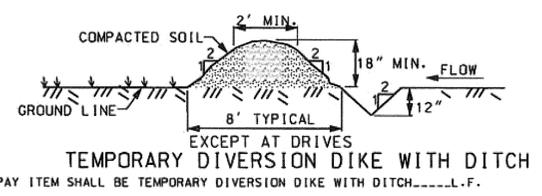
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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

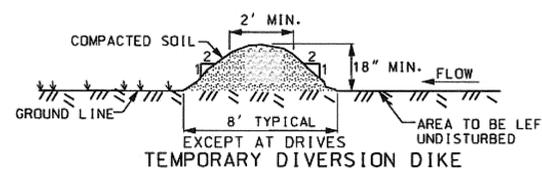
EROSION CONTROL DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS



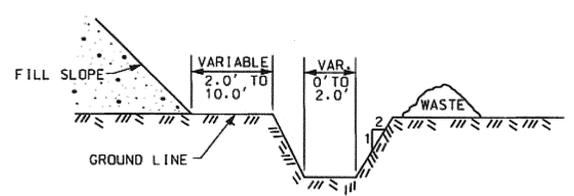
TEMPORARY DIVERSION DIKE WITH DITCH
EXCEPT AT DRIVES

THE PAY ITEM SHALL BE TEMPORARY DIVERSION DIKE WITH DITCH.....L.F.



TEMPORARY DIVERSION DIKE
EXCEPT AT DRIVES

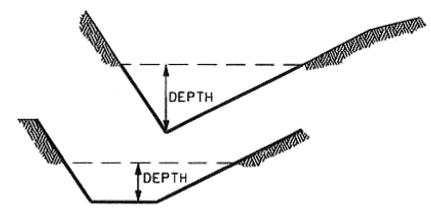
- NOTES
1. THIS ITEM IS FOR DIVERTING CLEAN WATER AROUND A CONSTRUCTION AREA.
 2. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIAL.
 3. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DIMENSIONS SHOWN.
 4. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DIKE. (AS APPLICABLE).
 5. PAYMENT FOR TEMPORARY DIVERSION DIKE INCLUDES ALL MATERIALS IN PLACE, REMOVAL AND DISPOSAL OF MATERIALS AND RESHAPING DIKE TO DRAIN. SEEDING TO BE PAID FOR SEPARATELY.
 6. THE PAY ITEM SHALL BE: TEMPORARY DIVERSION DIKE.....L.F.



TEMPORARY SILT DITCH

- NOTES
1. THIS ITEM IS TO MOVE SEDIMENT LADEN WATER FROM A CONSTRUCTION SITE TO A SEDIMENT CONTROL STRUCTURE.
 2. SEED DITCH AND WASTE AREA WITH TEMPORARY SEEDING IMMEDIATELY AFTER CONSTRUCTION.
 3. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DITCH (AS APPLICABLE).
 4. THE PAY ITEM SHALL BE: SILT DITCHES.....C.Y.

ROLLED EROSION CONTROL PRODUCT



- NOTES
1. THE DEPTH OF THE EROSION CONTROL PRODUCTS ARE TO BE DETERMINED BY DESIGN AND PLACED ON PLAN SHEETS.
 2. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 3. COST OF INSTALLATION AND MATERIALS SHALL BE INCLUDED IN THE PAY ITEM FOR ROLLED EROSION CONTROL PRODUCT.
 4. PAY ITEMS:
TEMPORARY EROSION CONTROL BLANKETSY
PERMANENT TURF REINFORCEMENT MATSY

THIS DRAWING IS NOT TO SCALE

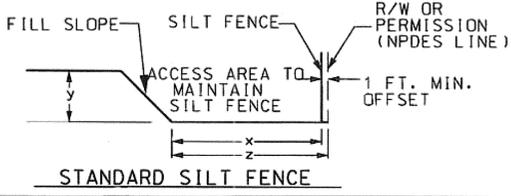
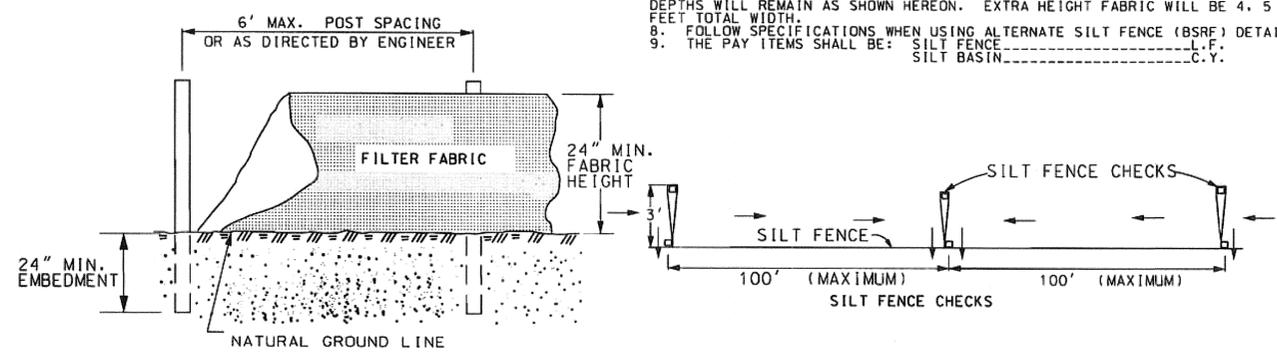
SILT FENCE

HEIGHT OF FILL (y) IN FEET	FILL SLOPE	MINIMUM SILT FENCE OFFSET FROM TOE OF SLOPE (x) IN FEET	MINIMUM RIGHT OF WAY OFFSET FROM TOE OF SLOPE (NPDES LINE) IN FEET	CHECK LENGTH IN FEET**
<6	2:1	2	3	2
	4:1			
6-10	2:1	12*	13*	5
	4:1			
>10	2:1	12*	13*	5
	4:1			
	6:1	4	5	4

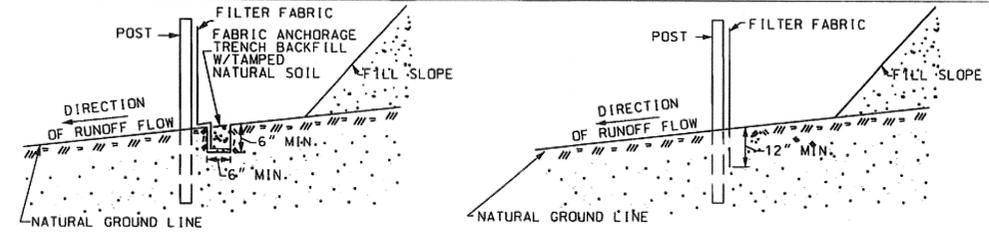
*THESE MINIMUM OFFSETS MAY BE REDUCED WHEN CURB AND GUTTER OR SOME OTHER FEATURE REDUCES THE FLOW OF WATER DOWN THE SLOPE. THE SMALL OFFSETS OF EACH GROUP OF HEIGHT OF FILL CANNOT BE REDUCED.

**SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

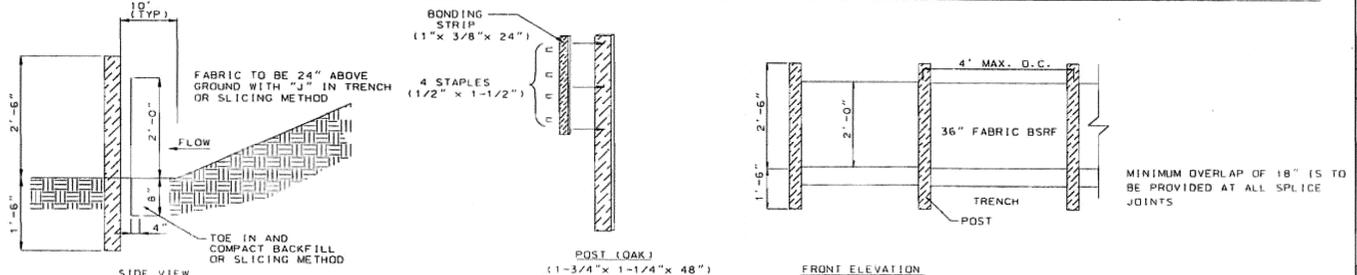
- NOTES
1. SILT FENCE CHECKS MUST BE LOCATED EVERY 100 FT. MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 2. USE POSTS CONFORMING TO SCDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET LONG AND INSTALLED TO A MINIMUM DEPTH OF 24 INCHES WITH NO MORE THAN 3 FEET OF THE POST ABOVE GROUND. AT LEAST 1 TO 2 INCHES OF THE POSTS SHALL EXTEND ABOVE THE TOP OF THE FABRIC. POST SPACING WILL BE A MAXIMUM OF 6 FEET ON CENTER.
 3. POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE FABRIC TO THE POST. POSTS SHALL ALSO HAVE A SOIL PLATE NEAR THE BOTTOM OF THE POST, EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON-SITE.
 4. ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.
 5. SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO 1/3 THE HEIGHT OF THE FENCE. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND PAID FOR BY THE ITEM OF SILT BASIN.
 6. TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEEDED, THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICATION OF HIGHER SILT FENCE. PAY ITEMS AND INSTALLATION METHODS.
 7. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING AND BURIED DEPTHS WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4, 5 OR 6 FEET TOTAL WIDTH.
 8. FOLLOW SPECIFICATIONS WHEN USING ALTERNATE SILT FENCE (BSRF) DETAILS.
 9. THE PAY ITEMS SHALL BE: SILT FENCE.....L.F.
SILT BASIN.....C.Y.



STANDARD SILT FENCE



ALTERNATE SILT FENCE - BELTED SILT RETENTION FENCE (BSRF)

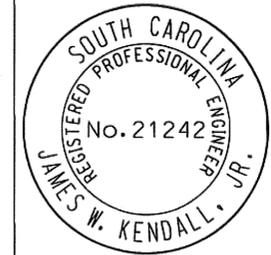


ALTERNATE SILT FENCE - BELTED SILT RETENTION FENCE (BSRF)

REFERENCES

- NATIONAL DOCUMENTS
- SCDOT DOCUMENTS
SC-M-815-2, SC-M-815-9
- RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER



James W. Kendall, Jr.
SIGNATURE

AUGUST 23, 2012
DATE

#	DATE	CHK	DESCRIPTION
1	8/2012	KMB	ADDED SCDOT DOCUMENTS, REMOVED STEEL, CHANGED NOTES
0	3/2008	DSO	GENERAL REVISIONS



STANDARD DRAWING

TEMPORARY EROSION & SEDIMENTATION CONTROL

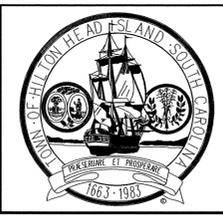
815-605-00
EFFECTIVE LETTING DATE | JAN., 2013

SILT FENCE

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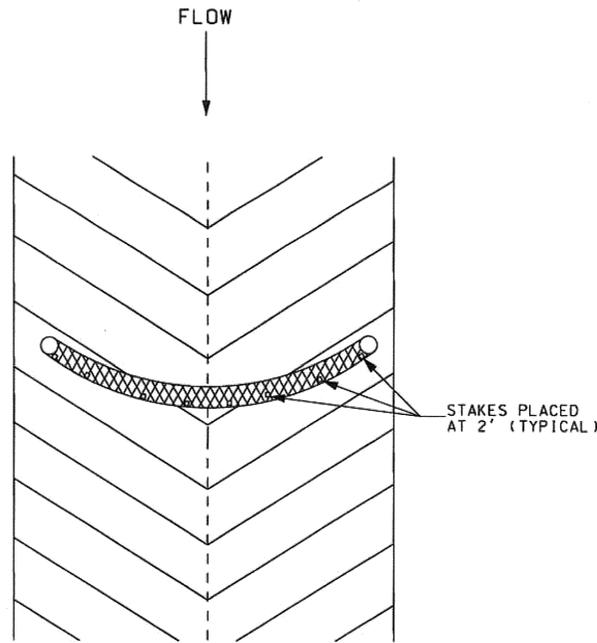


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

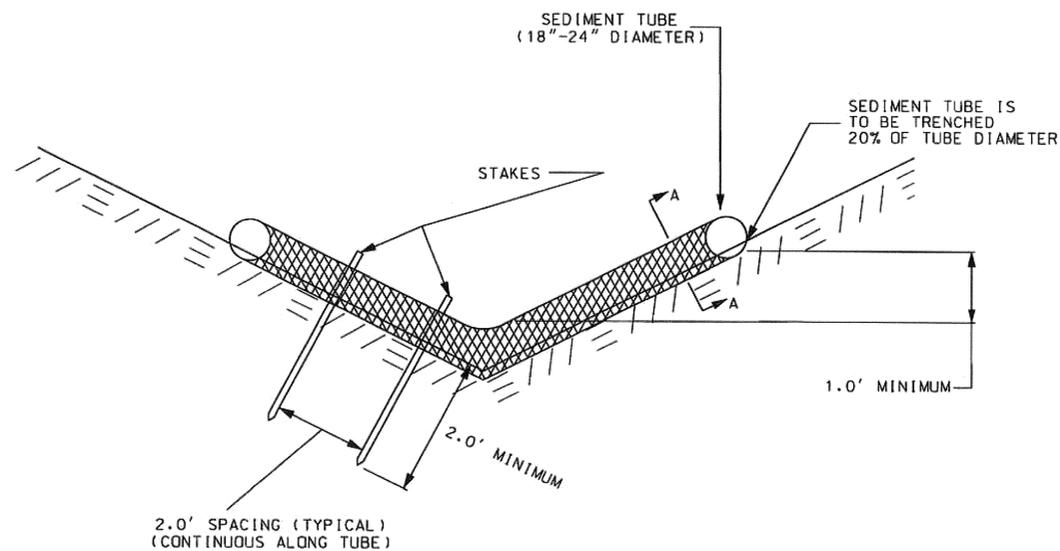
EROSION CONTROL DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

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5/24/2016



TOP VIEW OF DITCH



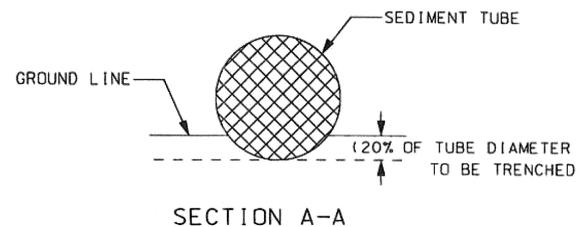
END VIEW OF DITCH

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCDOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON OPL, AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.
2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20% OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBER SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.
3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.
4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM SEDIMENT TUBE SPACING
LESS THAN 2%	150 FEET
2%	100 FEET
3%	75 FEET
4%	50 FEET
5%	40 FEET
6%	30 FEET
GREATER THAN 6%	25 FEET

5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF 3/4" X 3/4" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS (1.25 lbs/linear foot) A MINIMUM OF 4" IN LENGTH. USE STEEL POSTS WITHOUT A KICK PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A DEPTH OF 2' OR TO THE MAXIMUM EXTENT PRACTICABLE. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.
6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY, SEDIMENT TUBES CAN BE LAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.
7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.
8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT TUBES. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.
9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS, INERT MATERIAL.
10. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.
11. CLEAN OUT OF TUBES WILL BE PAID FOR AS SILT BASIN IN C.Y.
12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.
13. PAY ITEM SHALL BE:
SEDIMENT TUBE LF

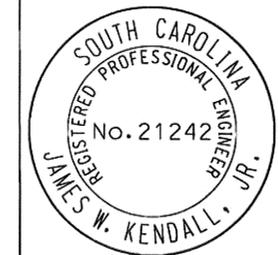


SECTION A-A

REFERENCES

- NATIONAL DOCUMENTS
- SCDOT DOCUMENTS
- QUALIFIED PRODUCT LIST 57, SC-N-815-12
- RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER



James W. Kendall
SIGNATURE
AUGUST 23, 2012
DATE

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1	8/2012	DSO	UPDATED NOTES, WORD TEXT REMOVED
0	3/2008	DSO	GENERAL REVISIONS
#	DATE	CHK	DESCRIPTION

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
SEDIMENT TUBE DITCH APPLICATION

815-205-00
EFFECTIVE LETTING DATE | JAN 2013

SEDIMENT TUBES

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THIS DRAWING IS NOT TO SCALE

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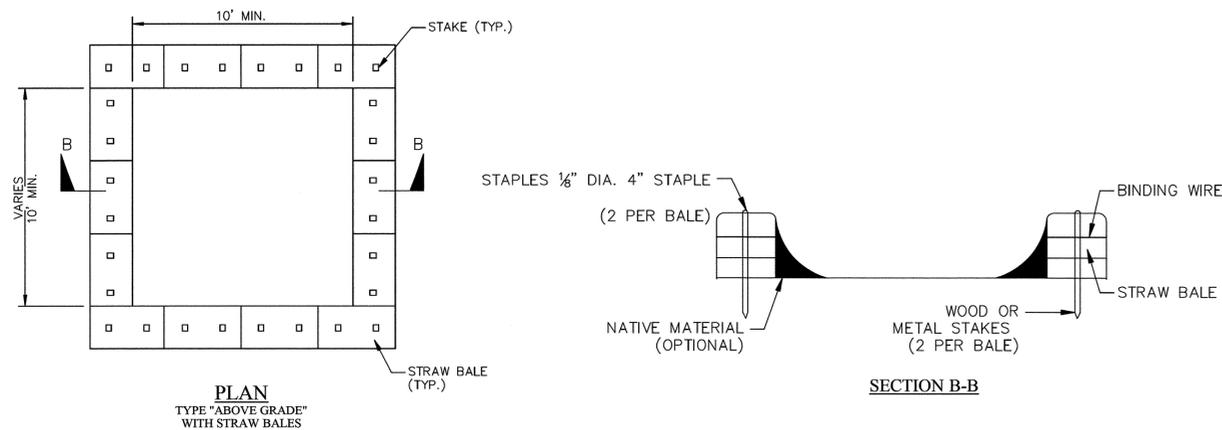
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CONSULTING & ENGINEERING

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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA
EROSION CONTROL DETAILS
BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

STRAW BALE BARRIER CONCRETE WASHOUT



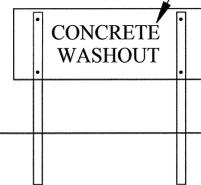
PLAN
TYPE "ABOVE GRADE"
WITH STRAW BALES

SECTION B-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

LETTERS A MINIMUM OF 5" IN HEIGHT



CONCRETE WASHOUT SIGN DETAIL

South Carolina Department of Health and Environmental Control

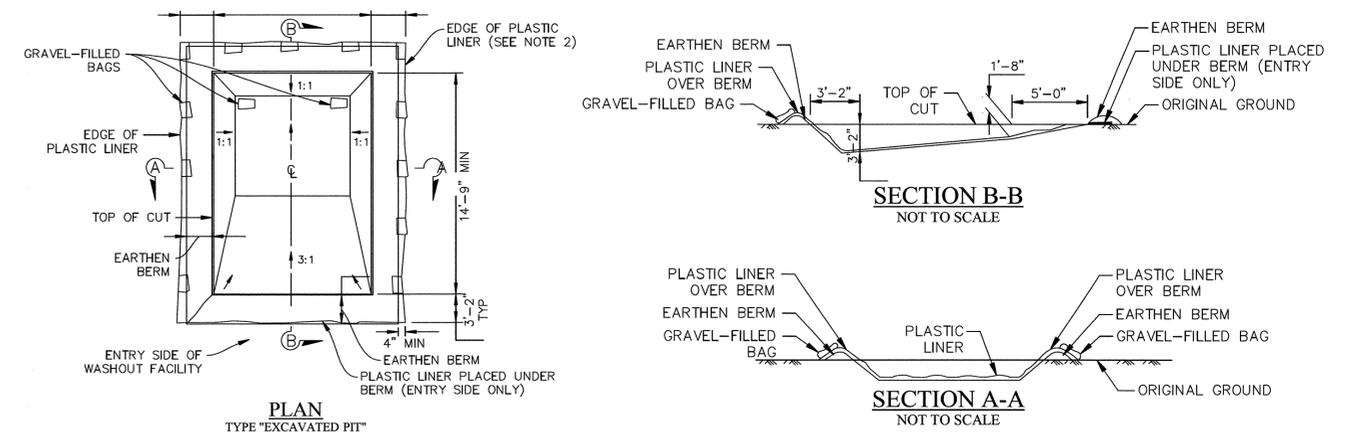
CONCRETE WASHOUT
STRAW BALES OR ABOVE GROUND

STANDARD DRAWING NO. RC-07 PAGE 1 of 1

NOT TO SCALE

FEBRUARY 2014
DATE

EXCAVATED PIT CONCRETE WASHOUT



PLAN
TYPE "EXCAVATED PIT"

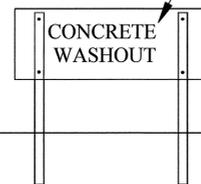
SECTION B-B
NOT TO SCALE

SECTION A-A
NOT TO SCALE

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
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7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

LETTERS A MINIMUM OF 5" IN HEIGHT



CONCRETE WASHOUT SIGN DETAIL

South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT
EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE

FEBRUARY 2014
DATE

CONCRETE WASH-OUT DETAIL

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5/24/2016

FOR INFORMATION ONLY

INFRASTRUCTURE
CONSULTING & ENGINEERING



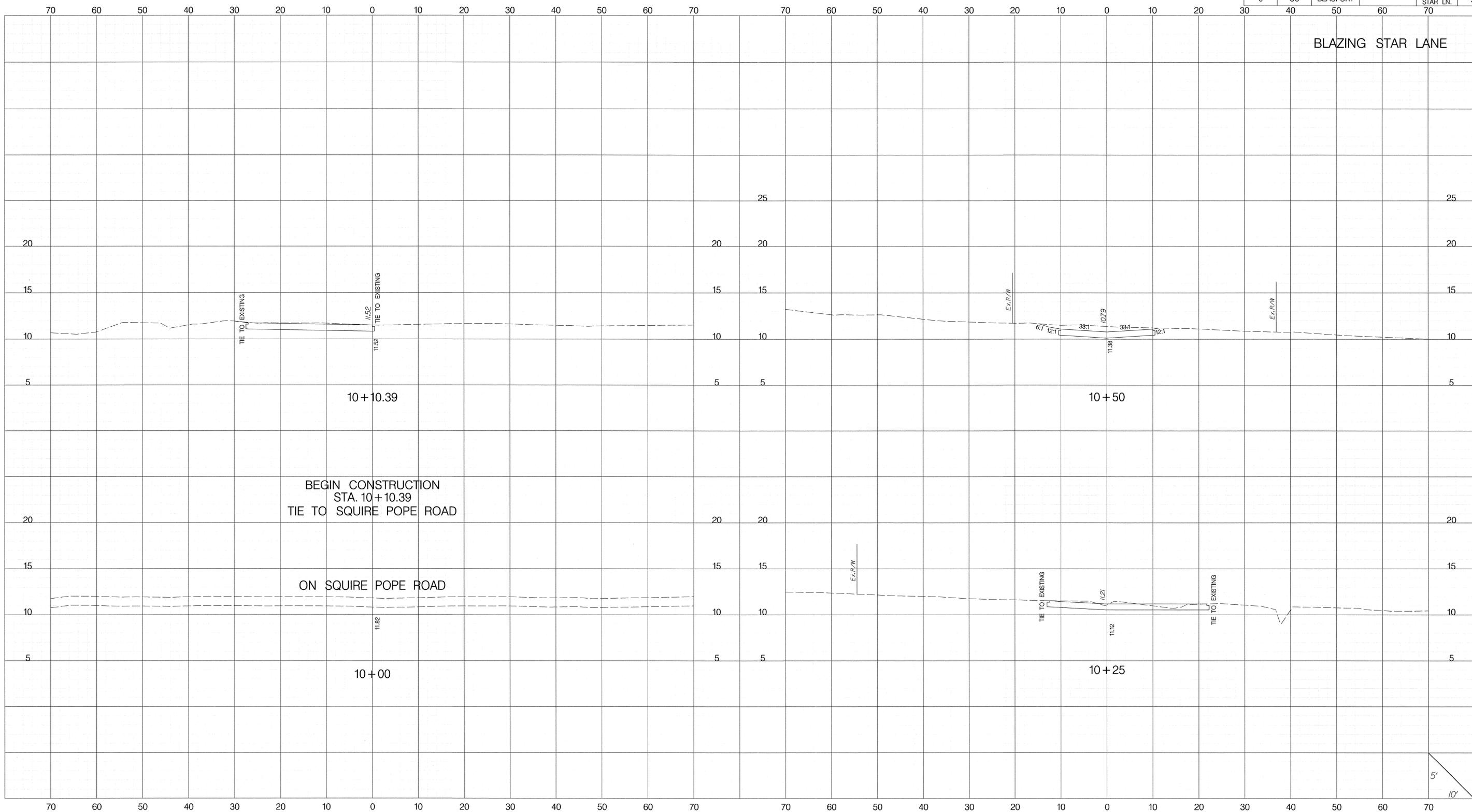
TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

EROSION CONTROL DETAILS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

4				
3				
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1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION	

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	BEAUFORT		BLAZING STAR LN.	X1



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5/23/2016

A. O. Livingston

8/25/16

JE INFRASTRUCTURE CONSULTING & ENGINEERING			
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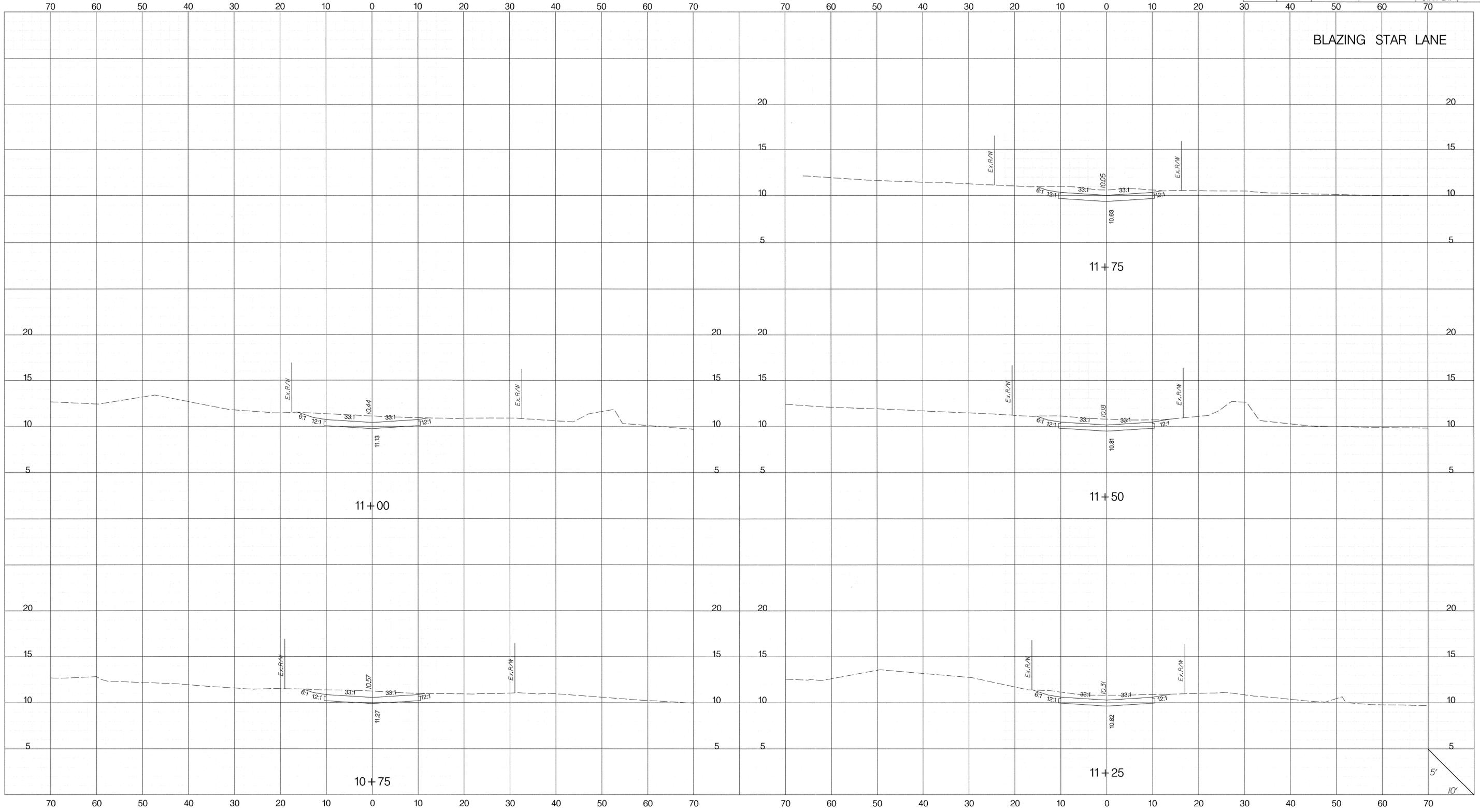


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD /ROUTE NO.	SHEET NO.
3	SC	BEAUFORT		BLAZING STAR LN.	X2



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Mark O. Livingston
5/25/16

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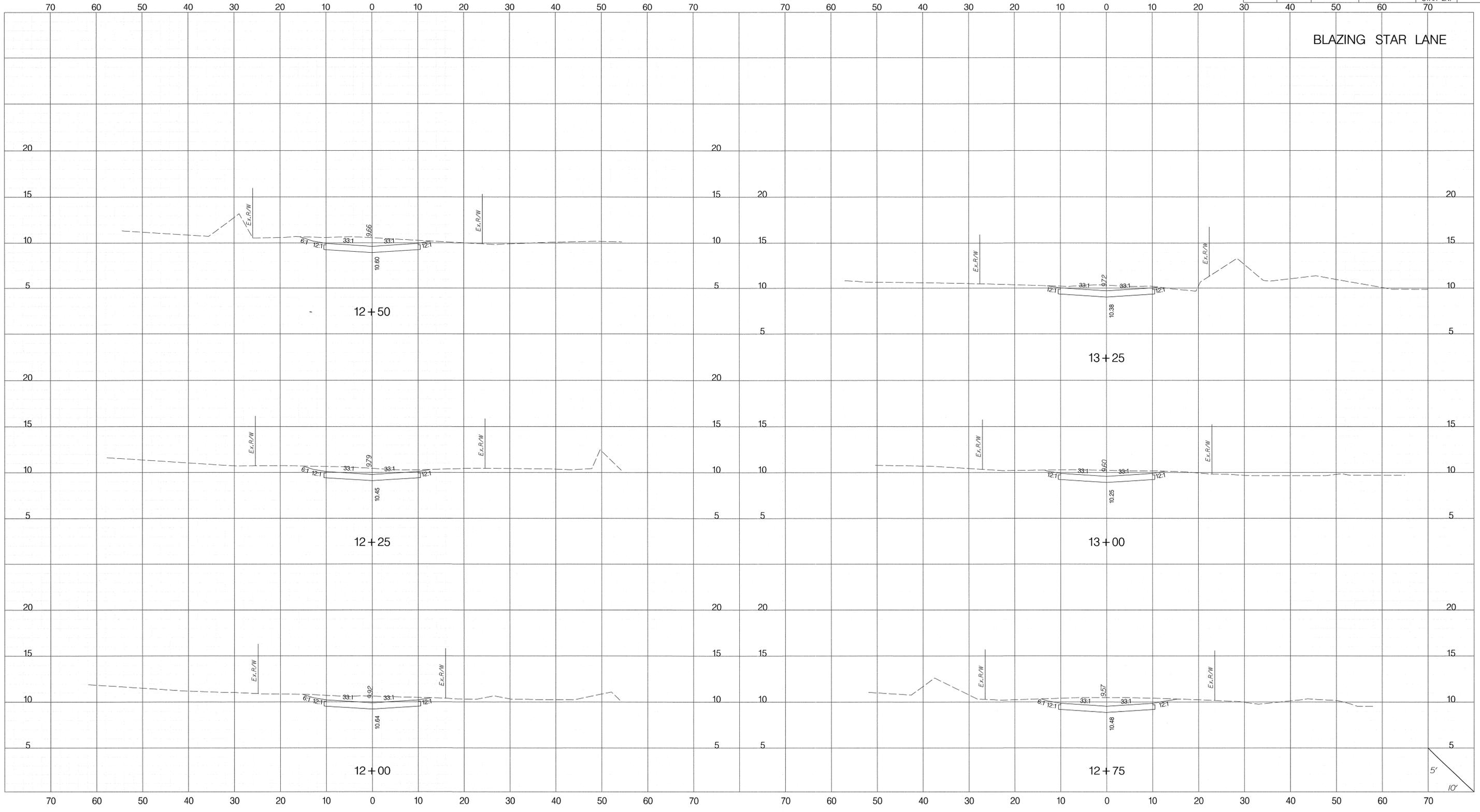


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

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3	SC	BEAUFORT		BLAZING STAR LN.	X3



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5/23/2016

South Carolina
Professional Engineer
License No. 26136
Date: 5/25/16

INFRASTRUCTURE CONSULTING & ENGINEERING

South Carolina
Professional Engineer
License No. 4470

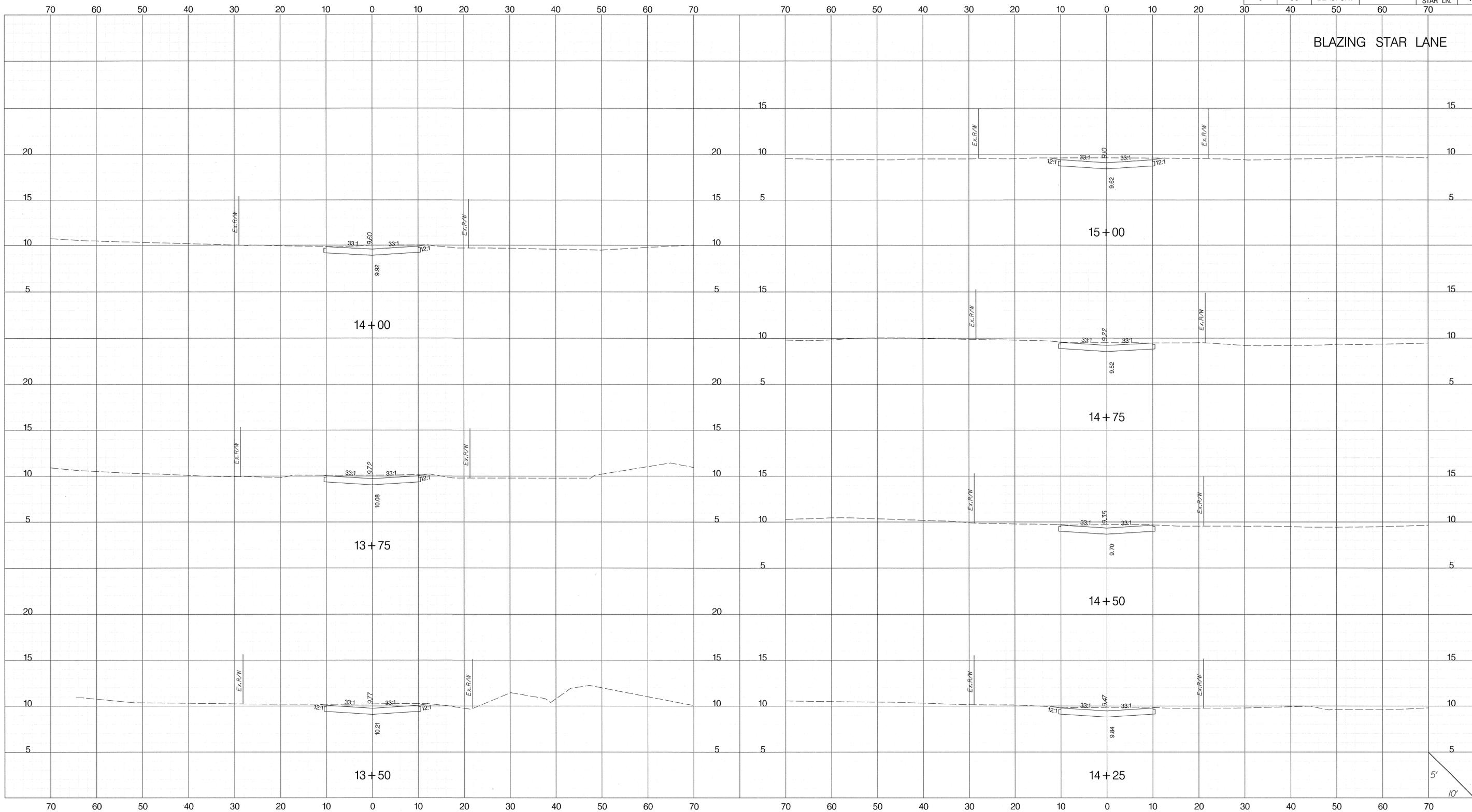
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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

BLAZING STAR LANE



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5/23/2016

Aa Livingston

5/25/16

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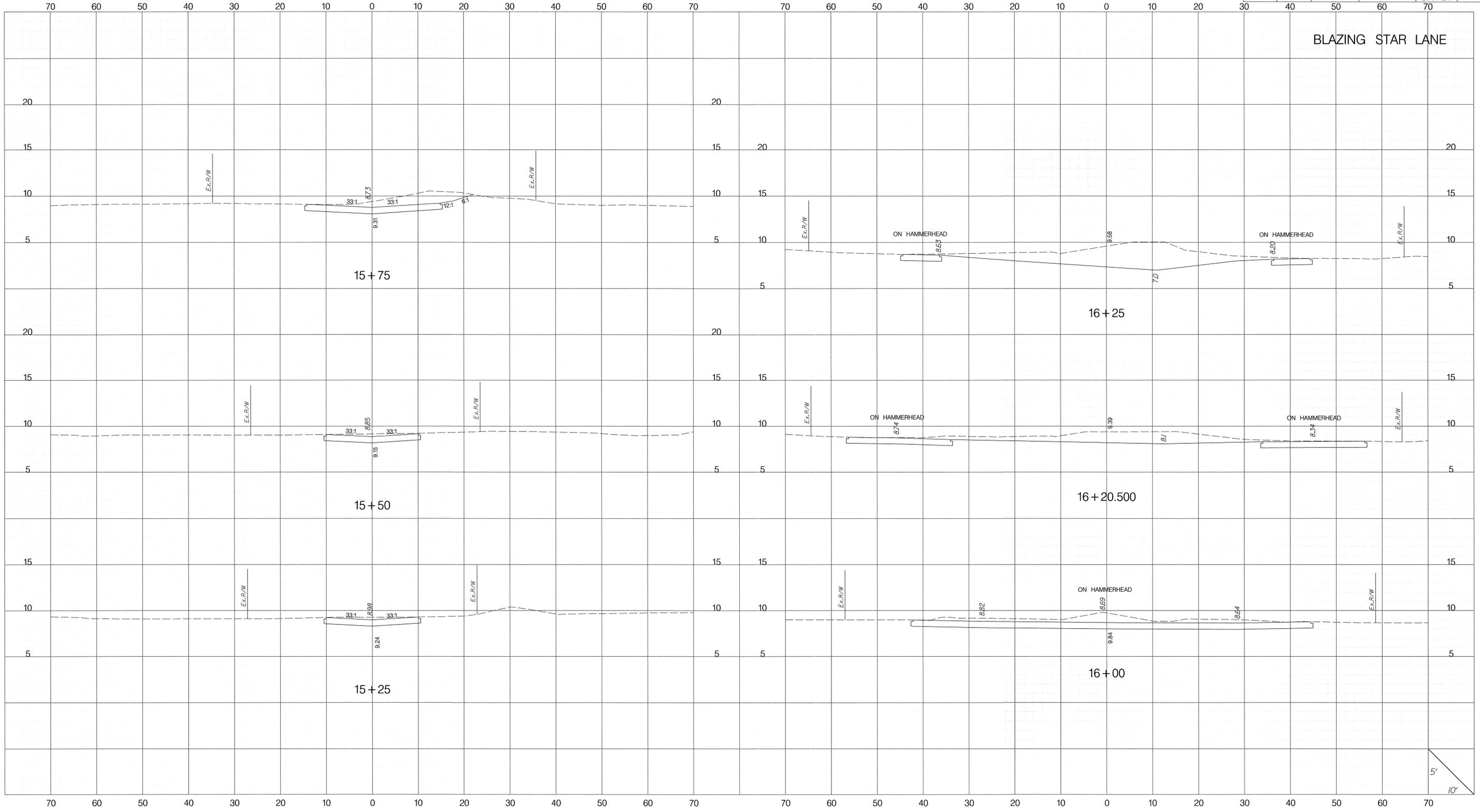


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	SC	BEAUFORT		BLAZING STAR LN.	X5



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Professional Engineer Seal for Harold O. Livingston, No. 26136, South Carolina, dated 5/25/16.

Professional Engineer Seal for File No. 4470, South Carolina.

JE INFRASTRUCTURE CONSULTING & ENGINEERING

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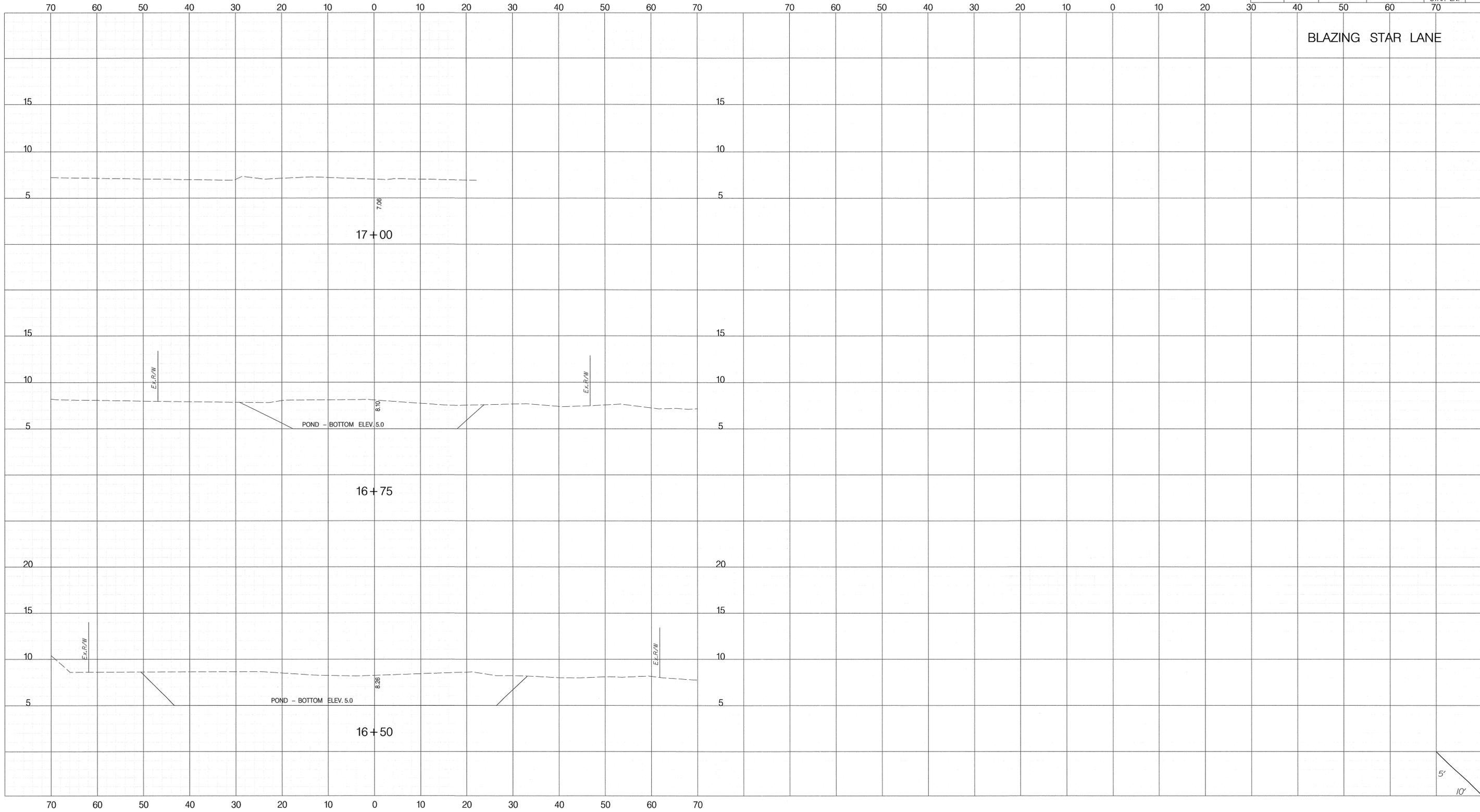


TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD /ROUTE NO.	SHEET NO.
3	SC	BEAUFORT		BLAZING STAR LN.	X6



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5/23/2016

A.S. Livingston

5/15/16

INFRASTRUCTURE CONSULTING & ENGINEERING

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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TOWN OF HILTON HEAD ISLAND
SOUTH CAROLINA

CROSS SECTIONS

BLAZING STAR LANE
ROADWAY AND DRAINAGE IMPROVEMENTS