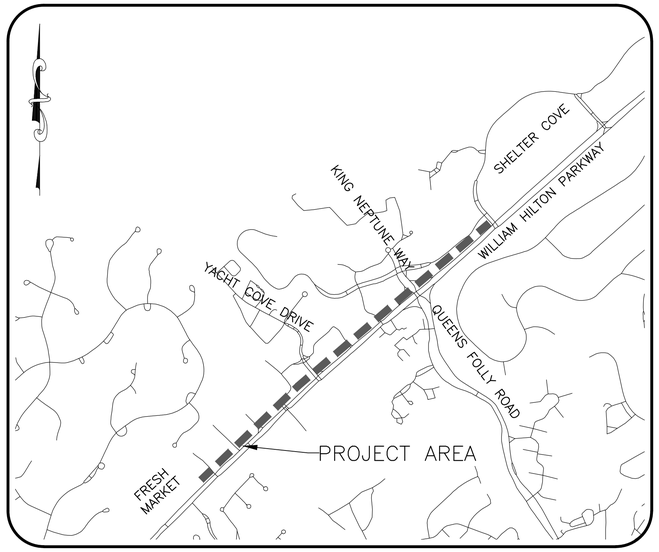
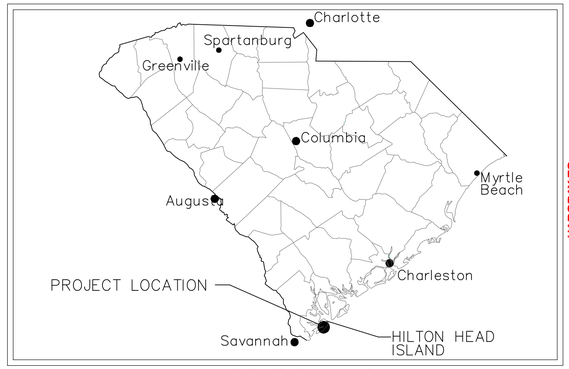
HARGRAY TO SHELTER COVE TOWN CENTRE PATHWAY PROJECT



VICINITY MAP
1"=1000'



LOCATION MAP
N.T.S.

HARGRAY TO SHELTER COVE TOWN CENTRE PATHWAY PROJECT

The point of contact for this project is:
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Hilton Head Island, SC 29928

Owner: Town of Hilton Head Island
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Hilton Head Island, SC 29928

PLANS PREPARED BY:
TOWN OF HILTON HEAD ISLAND ENGINEERING DIVISION
ONE TOWN CENTER COURT
HILTON HEAD ISLAND, S.C. 29928
PH. (843) 341-4600
http://www.hiltonheadislandsc.gov

NPDES Disturbed
AREA= 2.28 ACRES

Approximate Location of Roadway
LONGITUDE 80°43'49" W
LATITUDE 32°12'35" N

BEFORE YOU DIG
S.C. ONE CALL NUMBER:
1 – 888 – 721– 7877

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 DEMOLITION, EXCAVATION AND/OR CONSTRUCTION; THE CONTRACTOR IS ADVISED TO CONTACT THE LOCAL UNDERGROUND UTILITY PRIOR TO ANY DEMOLITION, EXCAVATION AND CONSTRUCTION.

NOTE: EXCEPT AS MAY OTHERWISE BE 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 LETTING.

– PLOT DATE: 10/14/14 –

ENGINEER OF RECORD

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24225 JENNIFER A. TYLER

FOR BIDDING PURPOSES ONLY

FOR BIDDING PURPOSES

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DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

TITLE SHEET

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 HOURS OF 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 EXCAVATION. 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 AND FOR MAINTENANCE 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 OF WATERLINE 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 CONSTRUCTION ACTIVITIES WITH THE UTILITY PROVIDER. REPAIR OF ANY AND ALL DAMAGES TO EXISTING UTILITIES DUE TO THIS CONSTRUCTION ARE THE CONTRACTORS 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 UNCHARTED 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 CONTRACTORS 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 CONFLICT 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 EXISTNG WATER METER.

PATHWAY PAVING, GRADING, AND DRAINAGE NOTES

1. WHERE EXISTING PAVEMENT IS SHOWN TO BE MATCHED, EDGE OR CONTACT FACE WITH EXISTING PAVEMENT SHALL BE SAW CUT TO A NEAT VERTICAL LINE.
2. 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.
3. CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
4. 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.
5. 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.
6. PREPARATION, GRADING, PAVING AND OTHER SITE IMPROVEMENTS SHALL CONFORM TO THE FOLLOWING:
   - A. 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.
   - B. CONCRETE: MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS (5-1/2 BAGS CEMENT PER. CU. YD.; ENTRAINED AIR 5% ± 1%).
   - C. BASE COURSE: 4-1/2" COMPACTED THICKNESS STABILIZED GRANITE AGGREGATE.
   - D. WEARING SURFACE: HOT PLANT MIX ASPHALT CONCRETE, TYPE C, 1-1/2" COMPACTED THICKNESS. (PRIME AS INDICATED BY PAVING SECTION DETAILS).
7. ALL CONSTRUCTION MUST CONFORM TO APPLICABLE STATE, BEAUFORT COUNTY AND/OR TOWN OF HILTON HEAD STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
8. 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.
9. ALL PIPES BEING SHOWN AS ABANDONDED 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.
10. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON ROADS, CURBS, SIDEWALKS AND GRASSED LINED DITCHES BEING REPLACED OR CONSTRUCTED.
11. PIPE LENGTHS AND SLOPE SHOWN IN PLAN AND PROFILE WERE DETERMINED USING CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

SCDHEC STANDARD NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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 SCR100000.
8. 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.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER 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.
10. 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.
11. 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.
12. 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.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. 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;
15. 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.).
16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS 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.
17. 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.
18. 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.
19. 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

1. 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 PERIMETER EROSION CONTOL 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.
2. SEEDING
   SEEDING SHALL BE ACCOMPLISHED ACCORDING TO S.C.D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007 EDITION, SECTION 810.
3. 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.
4. PERIMETER 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.
5. 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 SEWER SYSTEM. REFER TO THE PLAN SHEETS FOR PLACEMENT OF EROSION CONTROL MEASURES AND REFER TO THE SCDOT EROSION CONTROL STANDARD DRAWINGS FOR OTHER DETAILS ON OTHER EROSION CONTROL MEASURES.
6. INSPECTION AND IMPLEMENTATION
   ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE NPDES GENERAL CONSTRUCTION PERMIT. 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.
7. 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.
8. 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

1. CLEARED AREAS TO BE COMPLETELY CLEARED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. NO CLEARING SHALL OCCUR WITHIN DESIGNATED BUFFER/TREE PROTECTION AREAS, OUTSIDE OF THE PROPERTY LINES OR BEYOND CLEARING LIMITS EXCEPT AS OTHERWISE SHOWN.
3. THE CONTRACTOR SHALL INSTALL A CONTINUOUS LINE OF FLAGGING OR FENCING ALONG THE LIMITS OF CLEARING PRIOR TO ANY CONSTRUCTION WORK BEGINNING.
4. 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.
5. NO MATERIALS STORAGE, EARTH STORAGE, GAS FUELING, CONCRETE WASHOUT, DUMPING, OR CONSTRUCTION TRAFFIC IS ALLOWED WITHIN THE TREE PROTECTION ZONES.
6. 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.
7. 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.
8. WHEN TREE ROOTS ARE SEVERED OR EXPOSED DURING TRENCHING OR GRADING OPERATIONS, RECUT CLEANLY WITH A SHARP SAW BELOW FINISHED GRADE.

GENERAL SEQUENCE OF CONSTRUCTION

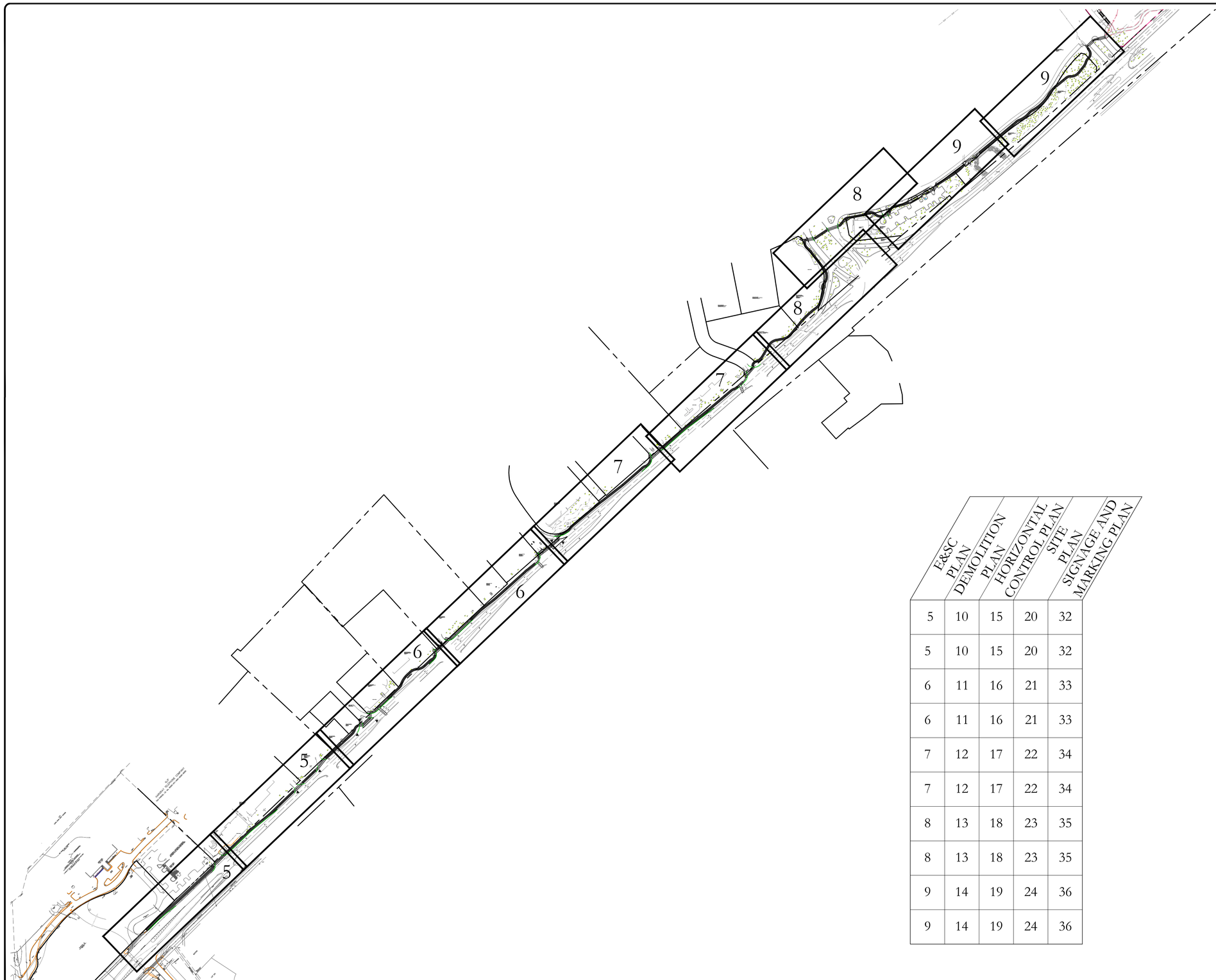
1. RECEIVE NPDES COVERAGE FROM SC DHEC.
2. CONDUCT PRE-CONSTRUCTION MEETING INCLUDING TOWN, ASSOCIATED CONTRACTORS, ENGINEER, SC DHEC, AND OTHER AFFECTED PARTIES AS NECESSARY.
3. NOTIFY DHEC EQC REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
4. OBTAIN TREE PROTECTION APPROVAL LETTER AND COORDINATE PLACEMENT OF TREE PROTECTION FENCING WITH TOWN OF HILTON HEAD ISLAND NATURAL RESOURCES.
5. INSTALL PERIMETER EROSION CONTROL MEASURES (SILT FENCE AND INLET PROTECTION). CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
7. CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT * EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
8. PERFORM ROUGH GRADING OPERATIONS.
9. INSTALL STORM DRAIN SYSTEM AND PLACEMETN OF INLET PROTECTION AS EACH INLET IS INSTALLED.
10. PERFORM FINE GRADING AND PAVING OPERATIONS IN A MANNER AND SEQUENCE SO AS TO REDUCE UNNECESSARY DISTURBANCE OF SURFACE COVER.
11. PERMANENTLY OR TEMPORARILY VEGETATE AREAS AS COMPLETED OR LEFT IDLE.
12. 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.
13. ONCE PERMANENT VEGETATION AND EROSION CONTROL MEASURES ARE ESTABLISHED, THE CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION IN ORDER TO OBTAIN A CERTIFICATE OF COMPLETION.
14. SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.

EROSION CONTROL NOTES

1. 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.
2. 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.
3. 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.
4. IMMEDIATELY FOLLOWING ALL LAND DISTURBING ACTIVITIES THE CONTRACTOR SHALL SOW GRASS AS FOLLOWS:
   - A. 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.
   - B. ALL DISTURBED OPEN EARTH AREAS NOT COVERED BY WALKS OR PAVING SHALL BE GRASSED AS FOLLOWS:

COMMON BERMUDA (HULLED)	30 LBS/ACRE
CARPETGRASS	35 LBS/ACRE
RESEEDING CRIMSON CLOVER	20 LBS/ACRE
ANNUAL RYEGRASS	15 LBS/ACRE

5. 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.
6. 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.
7. APPLY WATER AND MAINTAIN SEEDED 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".
8. FERTILIZING: APPLY 15-0-15 FERTILIZER AT THE RATE OF 10 POUNDS PER 1,000 SQUARE FEET RAKING LIGHTLY INTO THE SOIL.
9. MULCHING: WHEAT STRAW IS TO BE SPREAD LIGHTLY OVER SEEDED AREA AT THE RATE OF 1 BALE PER 500 SQUARE FEET.
10. WATERING: WATER IMMEDIATELY AFTER MULCHING.
11. 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.
12. 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 TEM



E&SC PLAN	DEMOLITION PLAN	HORIZONTAL CONTROL PLAN	SITE PLAN	SIGNAGE AND MARKING PLAN
5	10	15	20	32
5	10	15	20	32
6	11	16	21	33
6	11	16	21	33
7	12	17	22	34
7	12	17	22	34
8	13	18	23	35
8	13	18	23	35
9	14	19	24	36
9	14	19	24	36

GRAPHIC SCALE

200' 0 100' 200' 400' 800'

(IN FEET)
1 inch = 200' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24225 JENNIFER A. LYON

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

PROJECT MAP

SHEET 3 OF 41

PARCEL NUMBER	PROPERTY OWNER	PROPERTY IDENTIFICATION NUMBER (PIN)	PARCEL STREET ADDRESS	OWNER MAILING ADDRESS	TOTAL TRACT AREA (ACRES)	OBTAIN (SF)	OBTAIN (ACRES)	REMAINDER
1	HARGRAY TELEPHONE CO. INC.	R550 011 000 0026 0000	856 WILLIAM HILTON PARKWAY	P.O. BOX 5519, HILTON HEAD ISLAND, SC 29928	5.74	0	0	0
2	SAVANNAH BANK	R550 011 000 0077 0000	852 WILLIAM HILTON PARKWAY	25 BULL STREET, SAVANNAH, GA 31401	2.17	0	0	0
3	MARK R. SERTL	R520 011 000 155A 0000	3 REGENCY PARKWAY	10 YORKSHIRE DRIVE, HILTON HEAD ISLAND, SC 29928	0.39	0	0	0
4	1-B REGENCY PARKWAY, L.L.C.	R520 011 000 0155 0000	1 REGENCY PARKWAY	P.O. BOX 69, EDISTO ISLAND, SC 29438	0.44	0	0	0
5	FMW RRI I L.L.C.	R520 011 000 0156 0000	5 REGENCY PARKWAY	5847 SAN FELIPE STE 4650, HOUSTON, TX 77057	4.13	0	0	0
6	ROMANO GROUP DEVELOPMENT, L.L.C.	R520 011 000 0154 0000	2 REGENCY PARKWAY	24 WOODBINE PLACE, HILTON HEAD ISLAND, SC 29928	0.81	0	0	0
7	PRIME PROPERTY INVESTMENTS, L.L.C.	R520 011 000 132A 0000	840 WILLIAM HILTON PARKWAY	15 COLLIER BRANCH ROAD, HILTON HEAD ISLAND, SC 29928	1.95	0	0	0
8	HILTON HEAD SUITES, INC.	R520 011 000 0132 0000	1 MARINA SIDE DRIVE	2651 PERIMETER PARKWAY, AUGUSTA, GA 30909	5.52	0	0	0
9	BILLY L. WATSON	R520 011 000 0161 0000	2 MARINA SIDE DRIVE	P.O. BOX 21890, HILTON HEAD ISLAND, SC 29925	1.18	0	0	0
10	BILLY L. WATSON	R520 011 000 0166 0000	4 MARINA SIDE DRIVE	P.O. BOX 21890, HILTON HEAD ISLAND, SC 29925	1.31	0	0	0
11								
12	HILTON HEAD RESTAURANT ASSOCIATES	R520 011 000 0149 0000	6 MARINA SIDE DRIVE	6 MARINA SIDE DRIVE, HILTON HEAD ISLAND, SC 29928	2.41	0	0	0
13	NICK VAN REALTY II LLC C/O DEMETRI V	R520 012 000 0373 0000		92 ROA HOOK ROAD, CORTLAND MANOR , NY 10567	0.28	0	0	0
14	TREASURE COVE ADVENTURE	R520 012 000 0370 0000	8 MARINA SIDE DRIVE	2261 MAIN SAIL RD, KISSIMMEEE, FL 34746	1.99	0	0	0
15						0	0	0
16	MID-ISLAND ASSOCIATES LLC	R520 012 000 0016 0000	11 MARINA SIDE DRIVE	23 BENT TREE LANE, HILTON HEAD ISLAND, SC 29928	0.95	0	0	0
17	HILTON HEAD ISLAND CHAMBER OF COMMERCE	R520 012 00B 0011 0000	1 CHAMBER OF COMMERCE DR.	PO BOX 5647 HILTON HEAD ISLAND, SC 29938-5647	1.73	0	0	0
18	SHELTER COVE HARBOUR COMPANY	R520 012 00B 0070 0000		PO BOX 5874, HILTON HEAD ISLAND, SC 29938	0.74	0	0	0
19	SELF FAMILY ARTS CENTER INC	R520 012 00B 0012 0000	14 SHELTER COVE LANE	14 SHELTER COVE LANE, HILTON HEAD ISLAND, SC 29928-3543	1.61	0	0	0
20	SELF FAMILY ARTS CENTER INC	R520 012 00B 0015 0000	14 SHELTER COVE LANE	14 SHELTER COVE LANE, HILTON HEAD ISLAND, SC 29928-3543	1.33	0	0	0
21						0	0	0
22	BYRNE PROPERTIES LLC	R520 012 00B 0016 0000	16 SHELTER COVE LANE	10591 BIG CANOE, JASPER, GA 30143-5129	0.83	0	0	0
23	SHELTER COVE HARBOUR COMPANY	R520 012 00B 0030 0000		PO BOX 5874, HILTON HEAD ISLAND, SC 29938	11.36	0	0	0
24	SHELTER COVE HARBOUR COMPANY	R520 012 00B 0068 0000		PO BOX 5874, HILTON HEAD ISLAND, SC 29938	0.98	0	0	0
*	ALL PROPERTY INFORMATION LISTED COMES FROM THE TOWN OF HILTON HEAD ISLAND'S GIS RECORDS							

GRAPHIC SCALE

100' 0 50' 100' 200' 400'

(IN FEET)
1 inch = 100' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

RIGHT-OF-WAY DATA

SHEET **4** OF 41

HARGRAY

ASPHALT

EXISTING ASPHALT DRIVE

15"RCP

TYPE A INLET FILTER

SILT FENCE (220 LF)

TREE PROTECTION (30 LF TOTAL)

SEDIMENT TUBE

EDGE OF PAVEMENT

MATCHLINE – SEE BELOW

EXISTING BUILDING

TREE PROTECTION (15 LF)

SILT FENCE (202 LF)

SILT FENCE (150 LF)

TREE PROTECTION (35 LF TOTAL)

TREE PROTECTION (18 LF)

SILT FENCE (105 LF)

MATCHLINE – SEE ABOVE

MATCHLINE – SEE SHEET 6

GRAPHIC SCALE

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
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RECORD DWG.	

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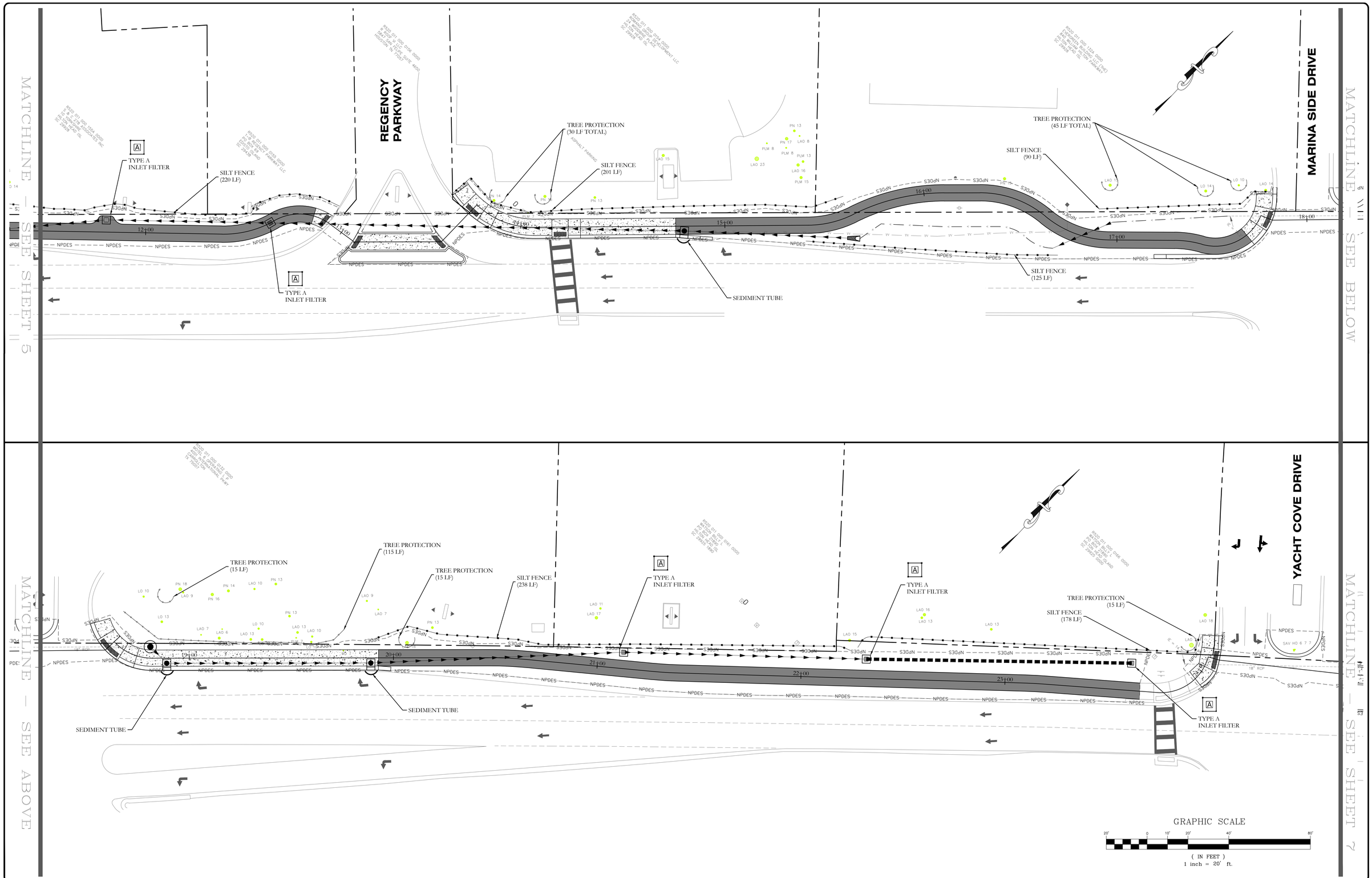
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

EROSION AND SEDIMENT CONTROL PLAN

SHEET 5 OF 41



DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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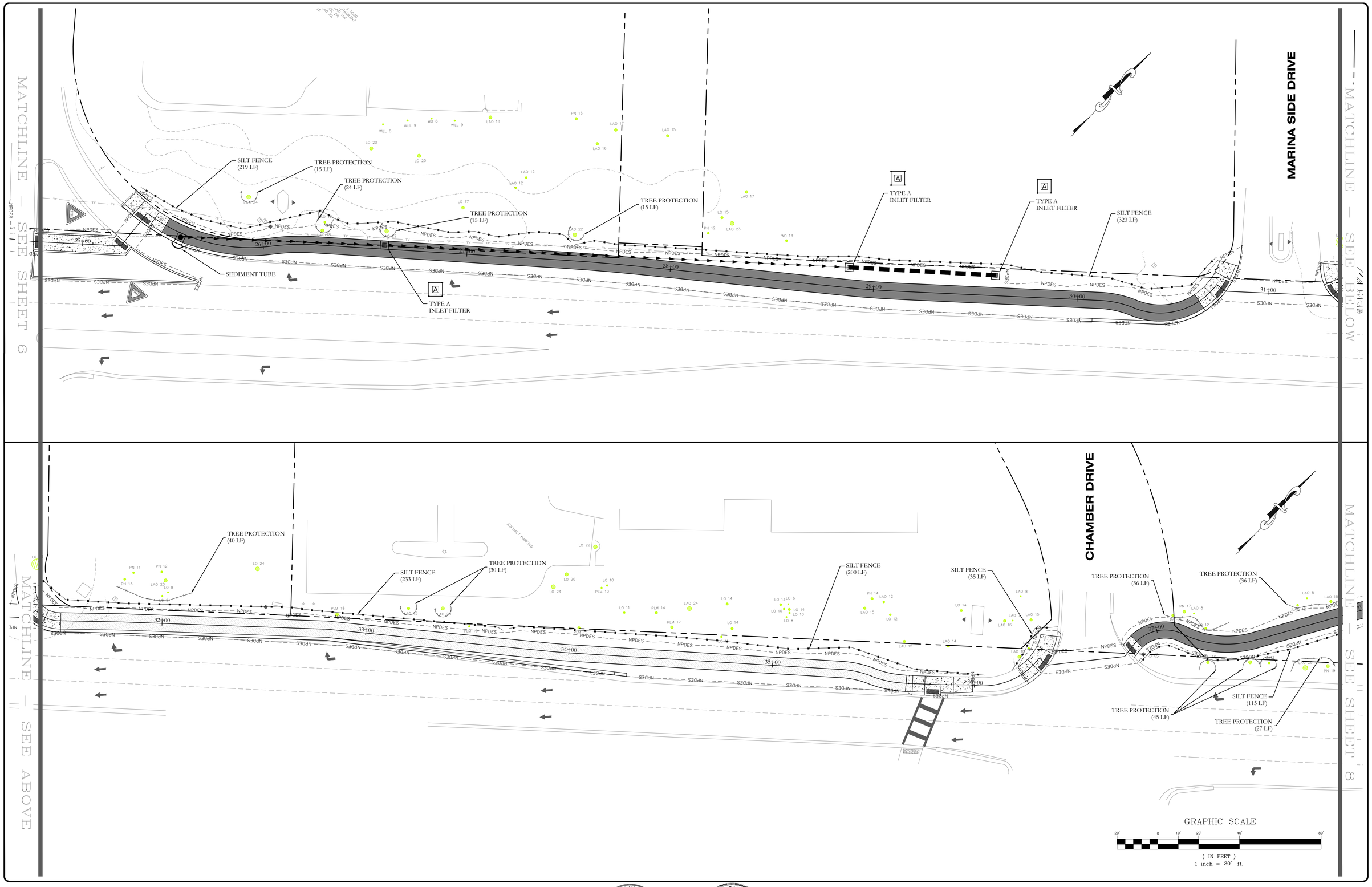
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

EROSION AND SEDIMENT CONTROL PLAN

SHEET **6** OF 41



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Engineering Division

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US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

EROSION AND SEDIMENT CONTROL PLAN

SHEET **7** OF 41

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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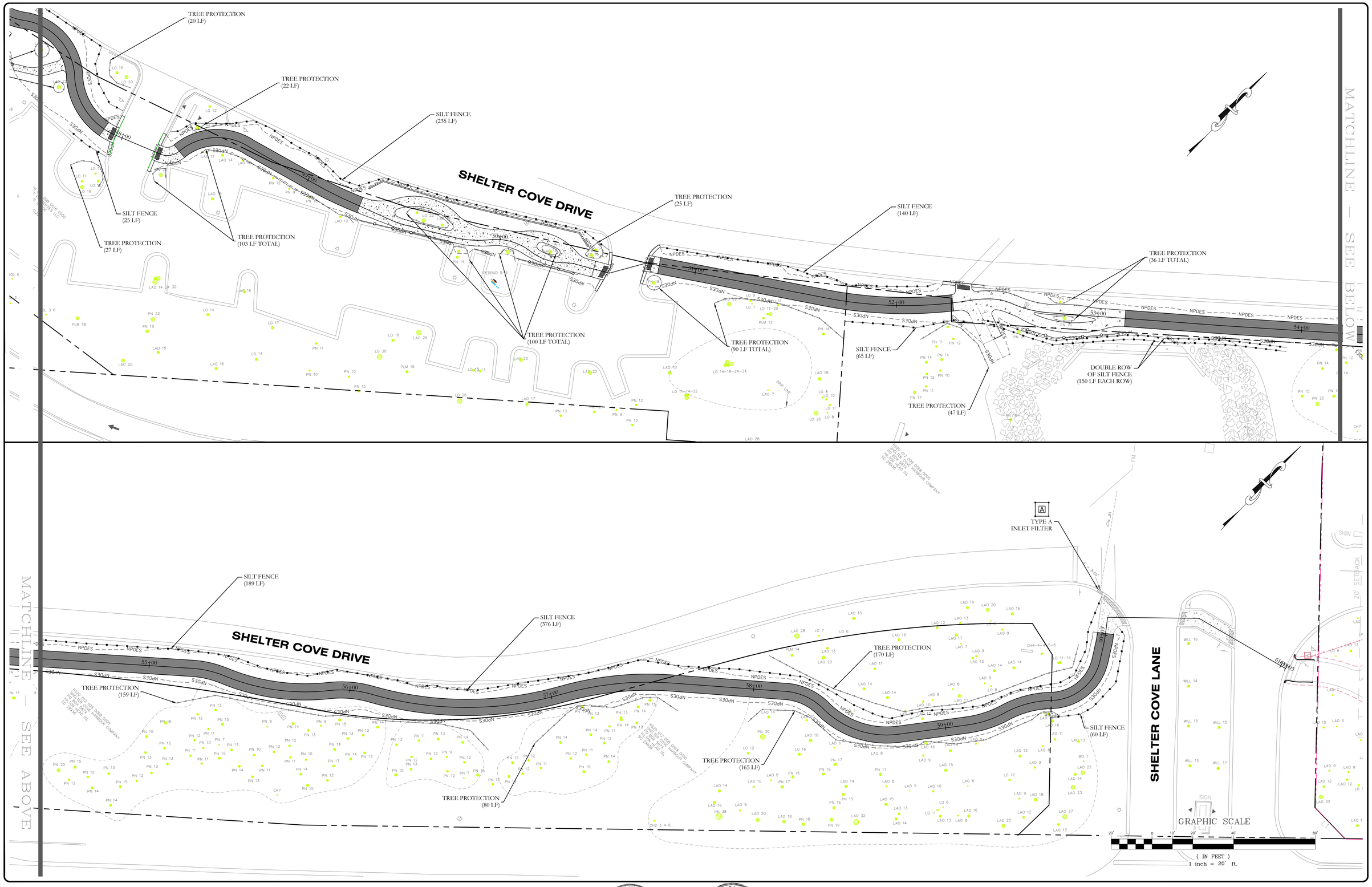
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

EROSION AND SEDIMENT CONTROL PLAN

SHEET **8** OF 41



DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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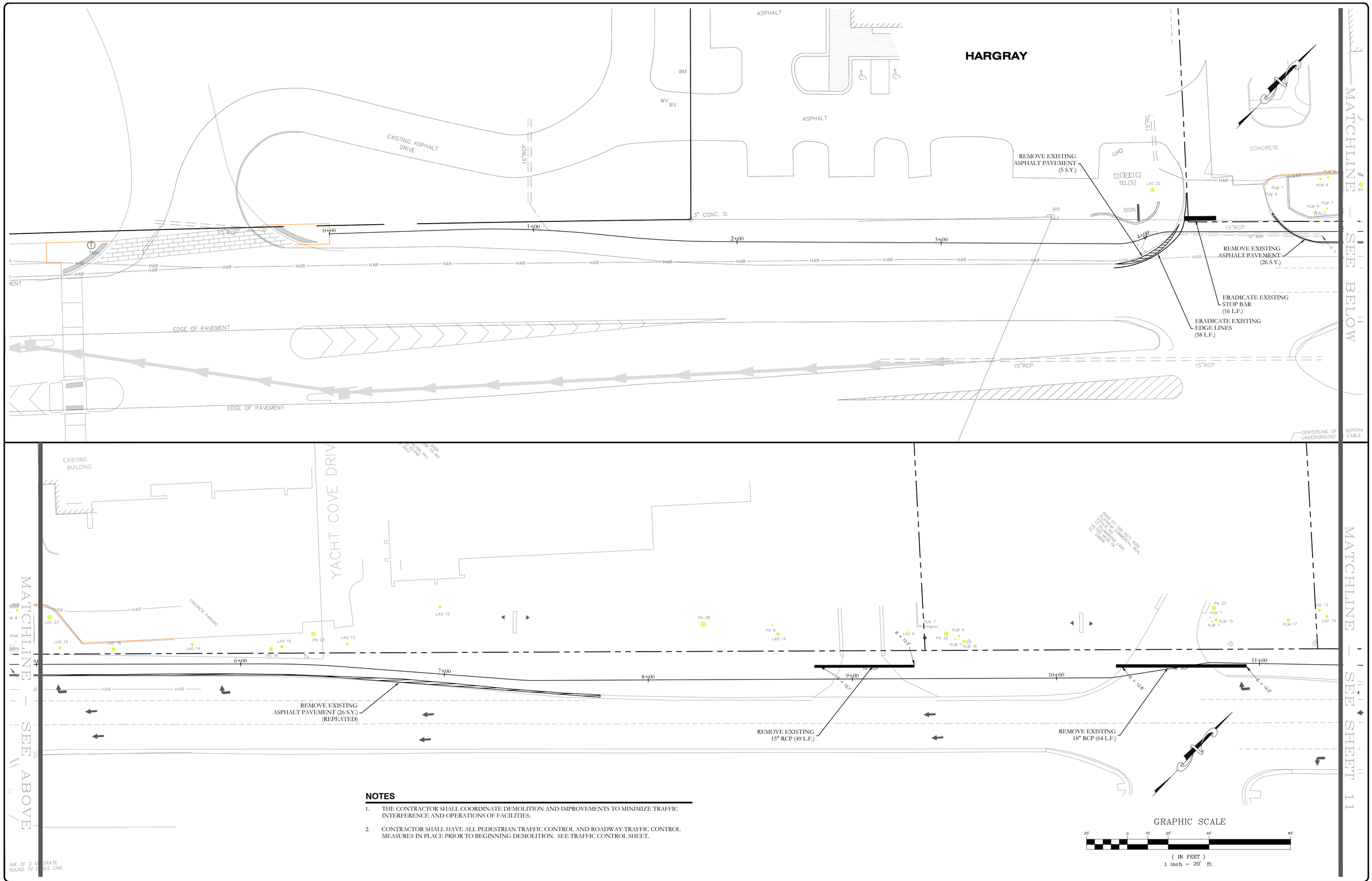
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

EROSION AND SEDIMENT CONTROL PLAN

SHEET **9** OF 41



NOTES

1. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
2. CONTRACTOR SHALL HAVE ALL PEDESTRIAN TRAFFIC CONTROL AND ROADWAY TRAFFIC CONTROL MEASURES IN PLACE PRIOR TO BEGINNING DEMOLITION. SEE TRAFFIC CONTROL SHEET.

DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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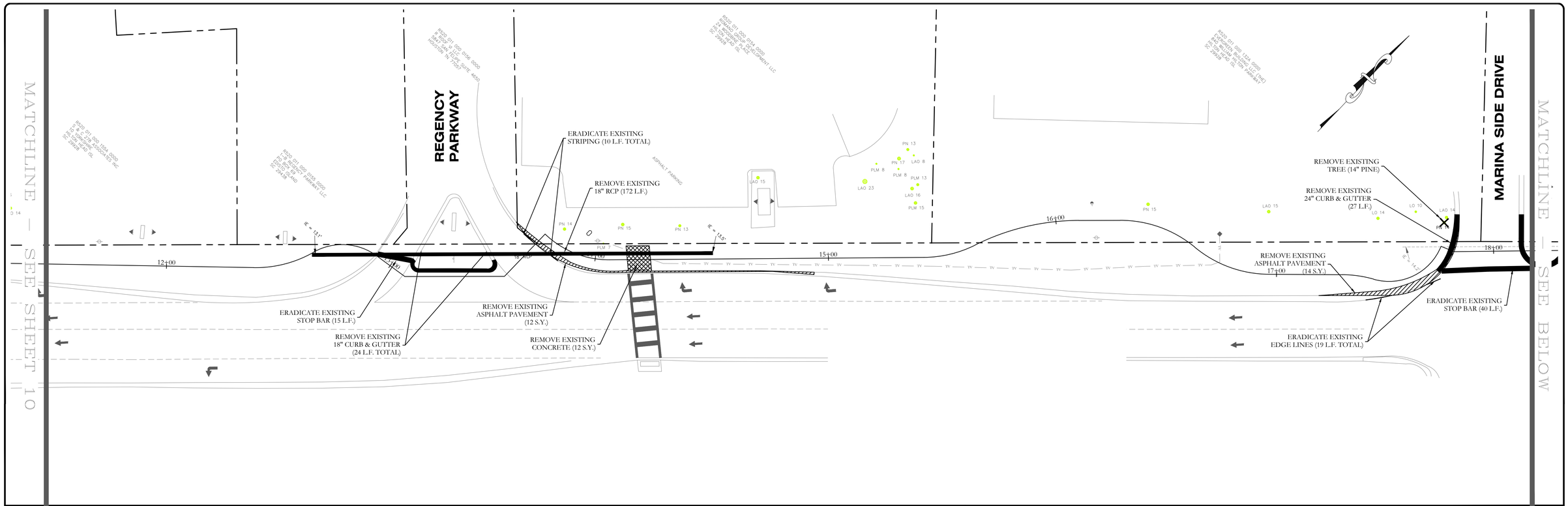
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

DEMOLITION PLAN

SHEET **10** OF 41



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TOWN OF HILTON HEAD ISLAND
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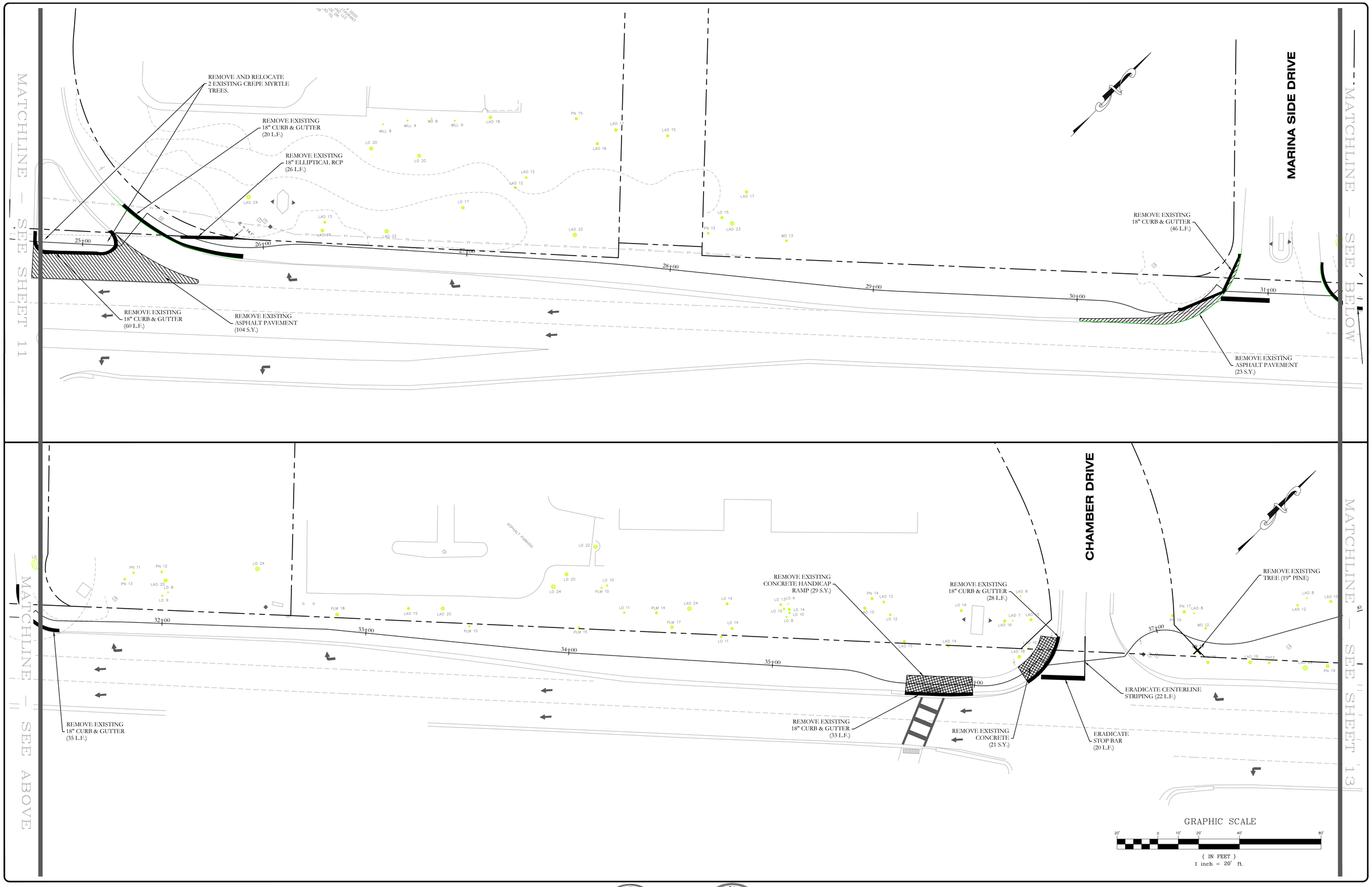
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

DEMOLITION PLAN

SHEET **11** OF 41



DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
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FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

DEMOLITION PLAN

SHEET **12** OF 41

MATCHLINE — SEE SHEET 12

REMOVE EXISTING TREES (3 - 6" LAUREL OAKS)

39+00

40+00

41+00

42+00

KING NEPTUNE WAY

MATCHLINE — SEE BELOW

MATCHLINE — SEE ABOVE

REMOVE EXISTING ASPHALT PATHWAY (24 S.Y.)

REMOVE EXISTING 18" CURB & GUTTER (21 L.F.)

REMOVE EXISTING 18" CURB & GUTTER (21 L.F.)

REMOVE EXISTING ASPHALT PATHWAY (55 S.Y.)

45+00

REMOVE EXISTING 18" CURB & GUTTER (20 L.F.)

REMOVE EXISTING 18" CURB & GUTTER (20 L.F.)

REMOVE EXISTING TREE (7" CHERRY)

REMOVE EXISTING TREE (10" LAUREL OAK)

REMOVE EXISTING TIMBER RETAINING WALL (16 LF TOTAL)

SHELTER COVE DRIVE

REMOVE EXISTING TREE (12" LAUREL OAK)

REMOVE EXISTING ASPHALT PATHWAY (138 S.Y.)

REMOVE EXISTING TREE (7" LAUREL OAK)

REMOVE EXISTING 18" CURB & GUTTER (20 L.F.)

REMOVE EXISTING 18" CURB & GUTTER (20 L.F.)

KING NEPTUNE WAY

GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Public Projects & Facilities
Engineering Division

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FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

DEMOLITION PLAN

SHEET **13** OF 41

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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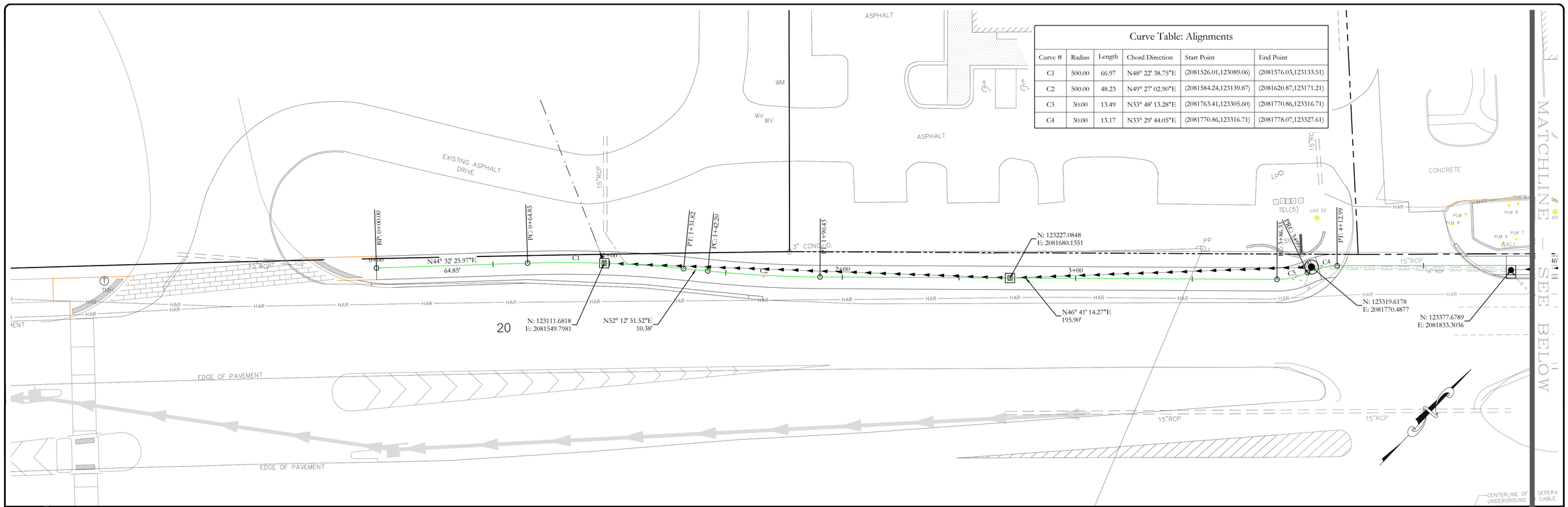
FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

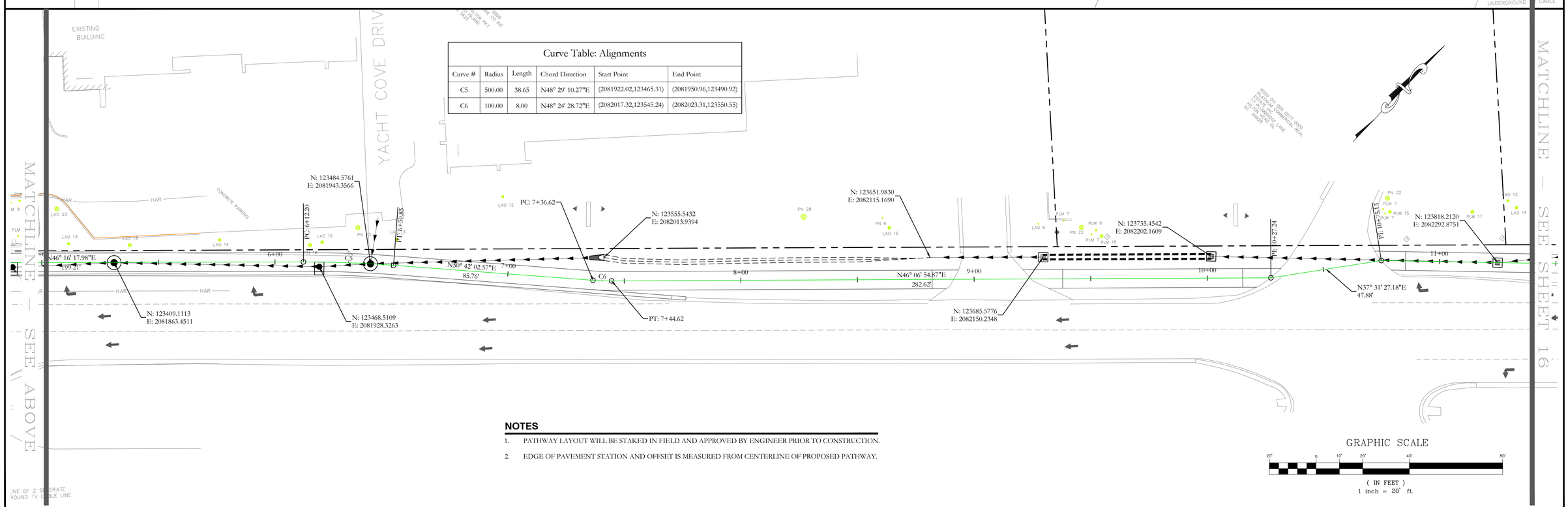
DEMOLITION PLAN

SHEET **14** OF 41



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	500.00	66.97	N48° 22' 38.75"E	(2081526.01,123089.06)	(2081576.03,123133.51)
C2	500.00	48.23	N49° 27' 02.90"E	(2081584.24,123139.87)	(2081620.87,123171.21)
C3	30.00	13.49	N33° 48' 13.28"E	(2081763.41,123305.60)	(2081770.86,123316.71)
C4	30.00	13.17	N33° 29' 44.05"E	(2081770.86,123316.71)	(2081778.07,123327.61)



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C5	500.00	38.65	N48° 29' 10.27"E	(2081922.02,123465.31)	(2081950.96,123490.92)
C6	100.00	8.00	N48° 24' 28.72"E	(2082017.32,123545.24)	(2082023.31,123550.55)

NOTES

1. PATHWAY LAYOUT WILL BE STAKED IN FIELD AND APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
2. EDGE OF PAVEMENT STATION AND OFFSET IS MEASURED FROM CENTERLINE OF PROPOSED PATHWAY.

GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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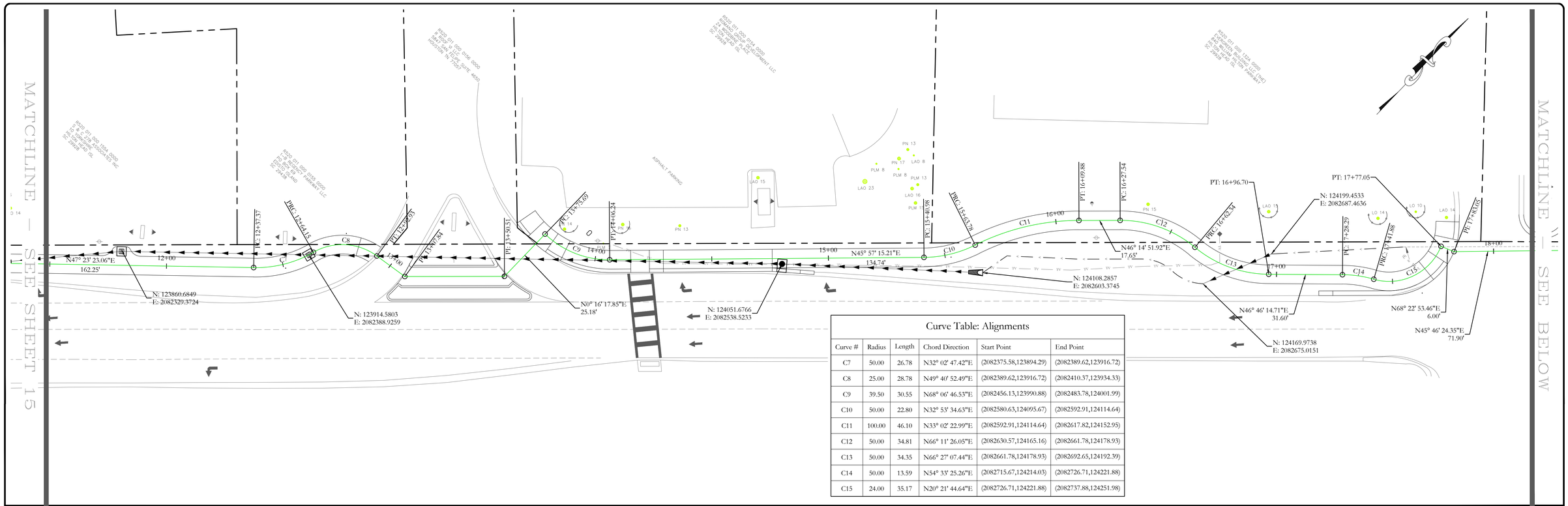
FOR BIDDING PURPOSES ONLY

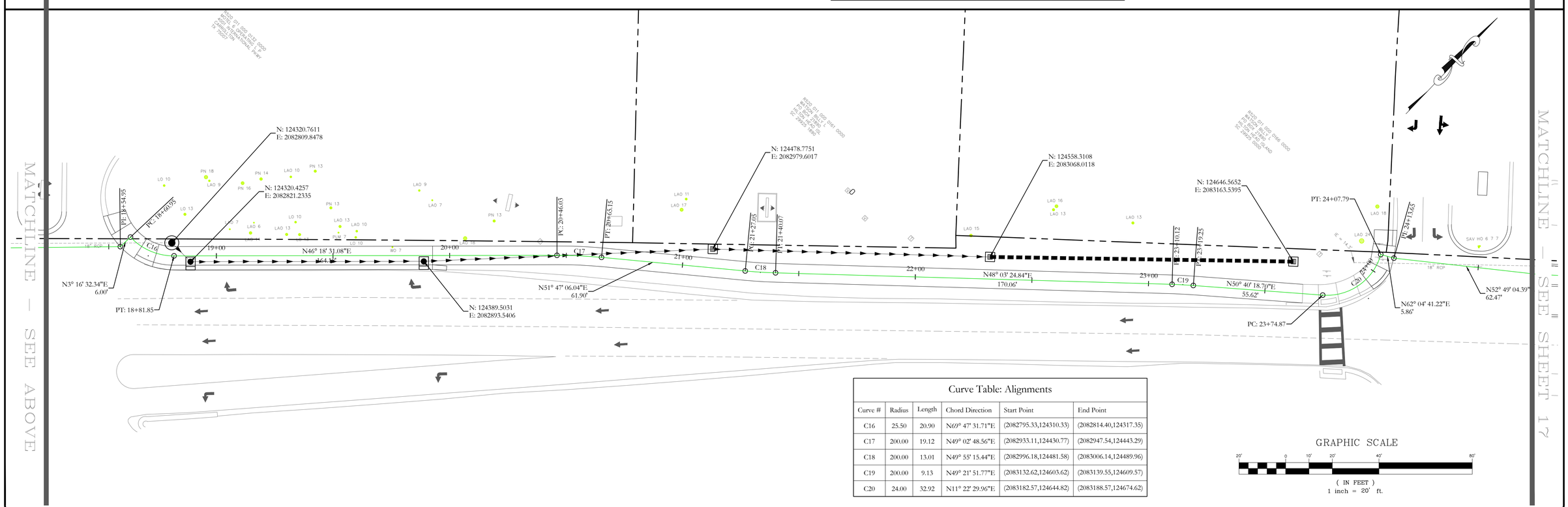
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

HORIZONTAL CONTROL PLAN

SHEET 15 OF 41



Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C7	50.00	26.78	N32° 02' 47.42"E	(2082375.58,123894.29)	(2082389.62,123916.72)
C8	25.00	28.78	N49° 40' 52.49"E	(2082389.62,123916.72)	(2082410.37,123934.33)
C9	39.50	30.55	N68° 06' 46.53"E	(2082456.13,123990.88)	(2082483.78,124001.99)
C10	50.00	22.80	N32° 53' 34.63"E	(2082580.63,124095.67)	(2082592.91,124114.64)
C11	100.00	46.10	N33° 02' 22.99"E	(2082592.91,124114.64)	(2082617.82,124152.95)
C12	50.00	34.81	N66° 11' 26.05"E	(2082630.57,124165.16)	(2082661.78,124178.93)
C13	50.00	34.35	N66° 27' 07.44"E	(2082661.78,124178.93)	(2082692.65,124192.39)
C14	50.00	13.59	N54° 33' 25.26"E	(2082715.67,124214.03)	(2082726.71,124221.88)
C15	24.00	35.17	N20° 21' 44.64"E	(2082726.71,124221.88)	(2082737.88,124251.98)



Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C16	25.50	20.90	N69° 47' 31.71"E	(2082795.33,124310.33)	(2082814.40,124317.35)
C17	200.00	19.12	N49° 02' 48.56"E	(2082933.11,124430.77)	(2082947.54,124443.29)
C18	200.00	13.01	N49° 55' 15.44"E	(2082996.18,124481.58)	(2083006.14,124489.96)
C19	200.00	9.13	N49° 21' 51.77"E	(2083132.62,124603.62)	(2083139.55,124609.57)
C20	24.00	32.92	N11° 22' 29.96"E	(2083182.57,124644.82)	(2083188.57,124674.62)

GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE

REVISIONS

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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APPROVALS	
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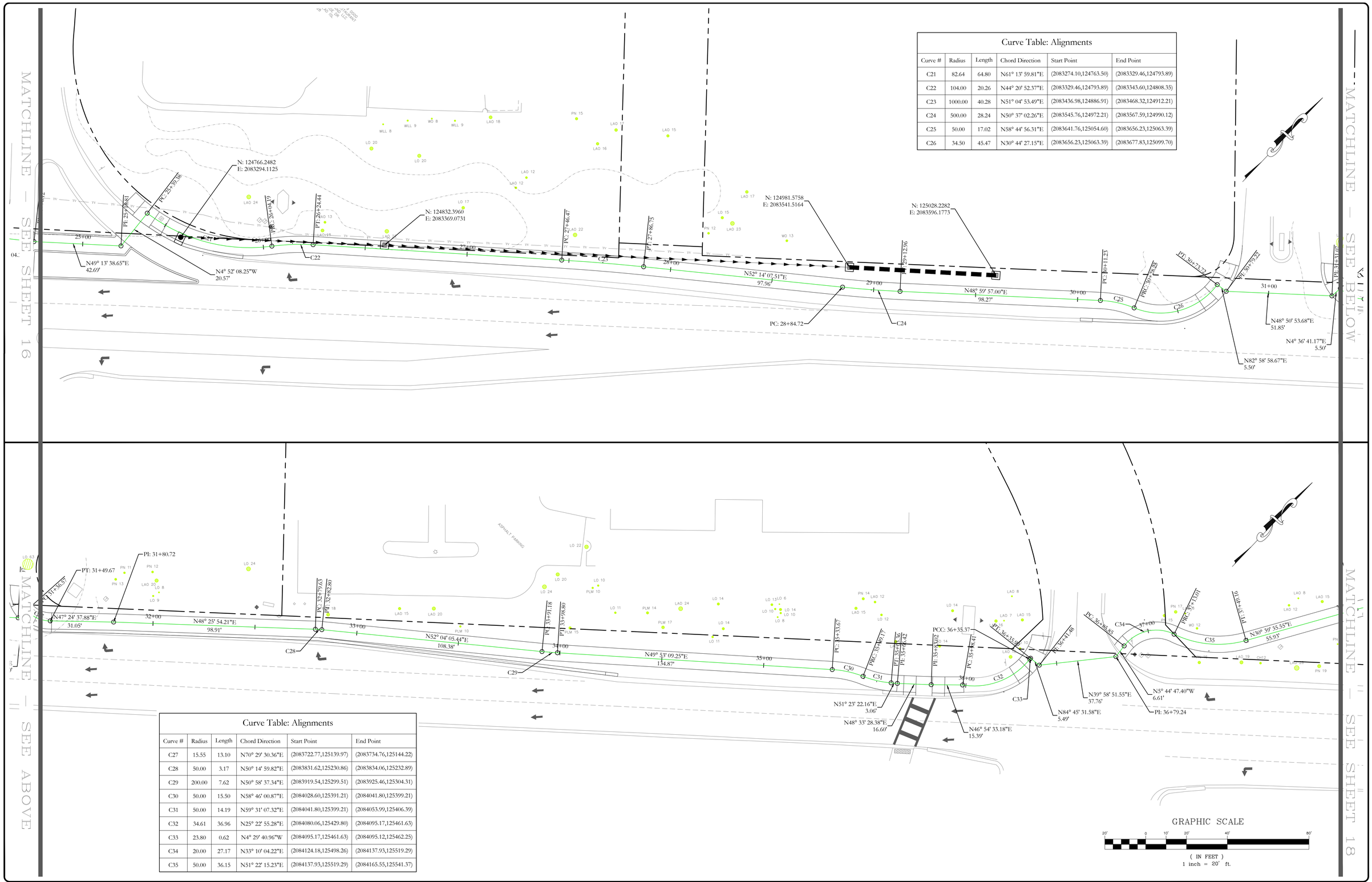
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

HORIZONTAL CONTROL PLAN

SHEET 16 OF 41



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C21	82.64	64.80	N61° 13' 59.81"E	(2083274.10,124763.50)	(2083329.46,124793.89)
C22	104.00	20.26	N44° 20' 52.37"E	(2083329.46,124793.89)	(2083343.60,124808.35)
C23	1000.00	40.28	N51° 04' 53.49"E	(2083436.98,124886.91)	(2083468.32,124912.21)
C24	500.00	28.24	N50° 37' 02.26"E	(2083545.76,124972.21)	(2083567.59,124990.12)
C25	50.00	17.02	N58° 44' 56.31"E	(2083641.76,125054.60)	(2083656.23,125063.39)
C26	34.50	45.47	N30° 44' 27.15"E	(2083656.23,125063.39)	(2083677.83,125099.70)

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C27	15.55	13.10	N70° 29' 30.36"E	(2083722.77,125139.97)	(2083734.76,125144.22)
C28	50.00	3.17	N50° 14' 59.82"E	(2083831.62,125230.86)	(2083834.06,125232.89)
C29	200.00	7.62	N50° 58' 37.34"E	(2083919.54,125299.51)	(2083925.46,125304.31)
C30	50.00	15.50	N58° 46' 00.87"E	(2084028.60,125391.21)	(2084041.80,125399.21)
C31	50.00	14.19	N59° 31' 07.32"E	(2084041.80,125399.21)	(2084053.99,125406.39)
C32	34.61	36.96	N25° 22' 55.28"E	(2084080.06,125429.80)	(2084095.17,125461.63)
C33	23.80	0.62	N4° 29' 40.96"W	(2084095.17,125461.63)	(2084095.12,125462.25)
C34	20.00	27.17	N33° 10' 04.22"E	(2084124.18,125498.26)	(2084137.93,125519.29)
C35	50.00	36.15	N51° 22' 15.23"E	(2084137.93,125519.29)	(2084165.55,125541.37)

DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
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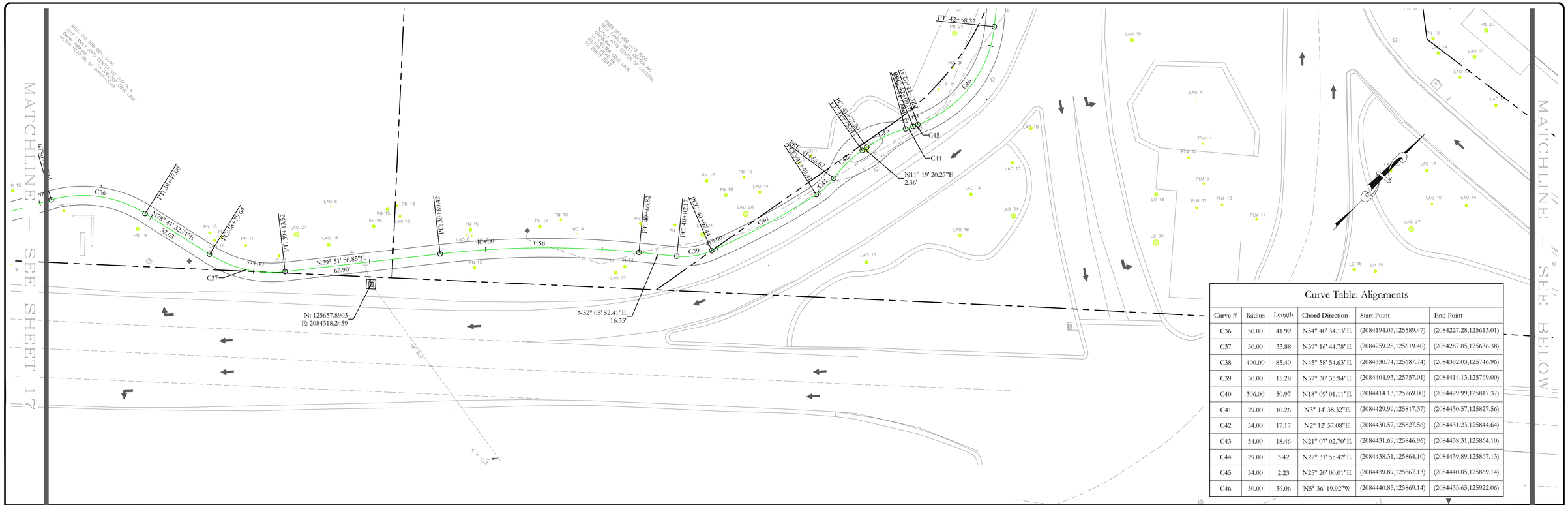
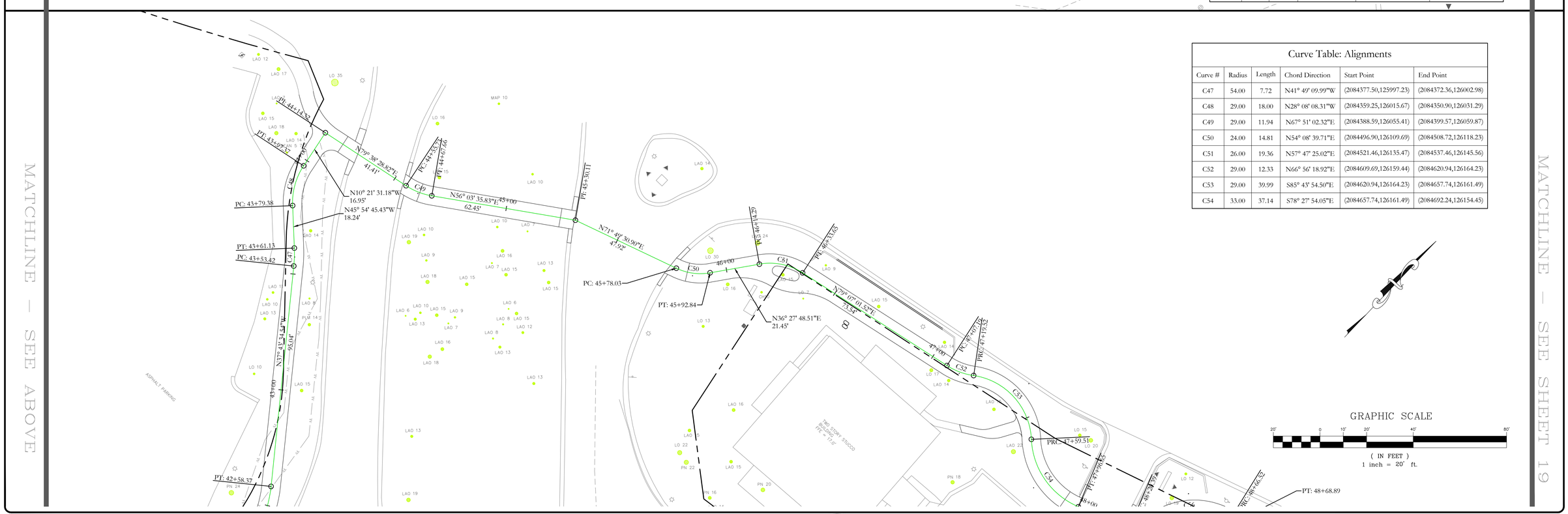
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

HORIZONTAL CONTROL PLAN

SHEET 17 OF 41



Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C36	50.00	41.92	N54° 40' 34.13"E	(2084194.07,125589.47)	(2084227.28,125613.01)
C37	50.00	33.88	N59° 16' 44.78"E	(2084259.28,125619.40)	(2084287.85,125636.38)
C38	400.00	85.40	N45° 58' 54.63"E	(2084330.74,125687.74)	(2084392.03,125746.96)
C39	30.00	15.28	N37° 30' 35.94"E	(2084404.93,125757.01)	(2084414.13,125769.00)
C40	306.00	50.97	N18° 09' 01.11"E	(2084414.13,125769.00)	(2084429.99,125817.37)
C41	29.00	10.26	N3° 14' 38.32"E	(2084429.99,125817.37)	(2084430.57,125827.56)
C42	54.00	17.17	N2° 12' 57.08"E	(2084430.57,125827.56)	(2084431.23,125844.64)
C43	54.00	18.46	N21° 07' 02.70"E	(2084431.69,125846.96)	(2084438.31,125864.10)
C44	29.00	3.42	N27° 31' 55.42"E	(2084438.31,125864.10)	(2084439.89,125867.13)
C45	54.00	2.23	N25° 20' 00.01"E	(2084439.89,125867.13)	(2084440.85,125869.14)
C46	50.00	56.06	N5° 36' 19.92"W	(2084440.85,125869.14)	(2084435.65,125922.06)



Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C47	54.00	7.72	N41° 49' 09.99"W	(2084377.50,125997.23)	(2084372.36,126002.98)
C48	29.00	18.00	N28° 08' 08.31"W	(2084359.25,126015.67)	(2084350.90,126031.29)
C49	29.00	11.94	N67° 51' 02.32"E	(2084388.59,126055.41)	(2084399.57,126059.87)
C50	24.00	14.81	N54° 08' 39.71"E	(2084496.90,126109.69)	(2084508.72,126118.23)
C51	26.00	19.36	N57° 47' 25.02"E	(2084521.46,126135.47)	(2084537.46,126145.56)
C52	29.00	12.33	N66° 56' 18.92"E	(2084609.69,126159.44)	(2084620.94,126164.23)
C53	29.00	39.99	S85° 43' 54.50"E	(2084620.94,126164.23)	(2084657.74,126161.49)
C54	33.00	37.14	S78° 27' 54.05"E	(2084657.74,126161.49)	(2084692.24,126154.45)

GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

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TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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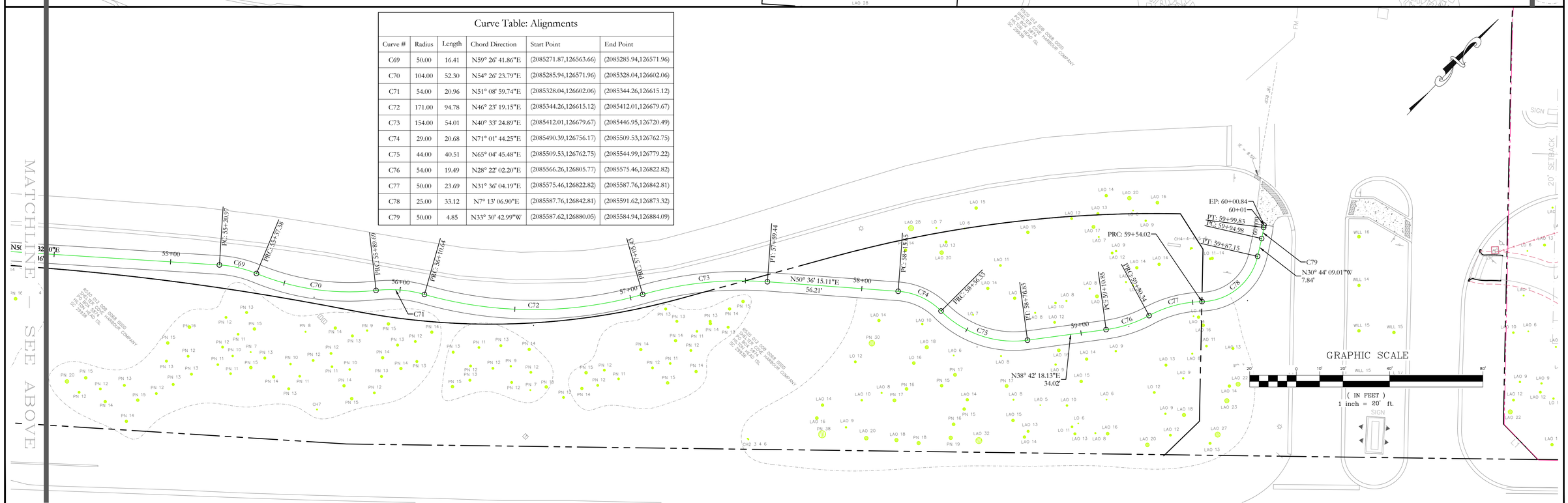
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

HORIZONTAL CONTROL PLAN

SHEET 18 OF 41

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C55	9.00	9.85	N37° 55' 34.55"E	(2084714.44,126162.84)	(2084720.20,126170.23)
C56	29.00	36.27	N42° 23' 22.13"E	(2084720.20,126170.23)	(2084743.09,126195.31)
C57	54.00	2.37	N76° 57' 43.86"E	(2084743.09,126195.31)	(2084745.40,126195.84)
C58	200.00	18.38	N73° 04' 20.00"E	(2084780.65,126204.82)	(2084798.22,126210.17)
C59	47.50	8.13	N65° 32' 02.63"E	(2084818.24,126217.29)	(2084825.64,126220.65)
C60	51.00	18.06	N50° 28' 59.14"E	(2084846.39,126232.33)	(2084860.25,126243.76)
C61	28.00	21.31	N62° 08' 14.39"E	(2084860.25,126243.76)	(2084878.64,126253.48)
C62	27.50	18.07	N65° 06' 32.06"E	(2084878.64,126253.48)	(2084894.74,126260.95)
C63	22.00	5.80	N53° 50' 18.56"E	(2084894.74,126260.95)	(2084899.41,126264.37)
C64	204.00	71.40	N47° 20' 21.22"E	(2084999.28,126336.80)	(2085051.52,126384.94)
C65	54.00	9.49	N42° 20' 54.99"E	(2085051.52,126384.94)	(2085057.90,126391.94)
C66	29.00	11.38	N58° 37' 46.07"E	(2085057.90,126391.94)	(2085067.56,126397.83)
C67	54.00	18.13	N60° 15' 28.06"E	(2085067.56,126397.83)	(2085083.22,126406.78)
C68	56.35	0.59	N50° 20' 29.79"E	(2085149.96,126461.52)	(2085150.41,126461.89)



Curve Table: Alignments

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C69	50.00	16.41	N59° 26' 41.86"E	(2085271.87,126563.66)	(2085285.94,126571.96)
C70	104.00	52.30	N54° 26' 23.79"E	(2085285.94,126571.96)	(2085328.04,126602.06)
C71	54.00	20.96	N51° 08' 59.74"E	(2085328.04,126602.06)	(2085344.26,126615.12)
C72	171.00	94.78	N46° 23' 19.15"E	(2085344.26,126615.12)	(2085412.01,126679.67)
C73	154.00	54.01	N40° 33' 24.89"E	(2085412.01,126679.67)	(2085446.95,126720.49)
C74	29.00	20.68	N71° 01' 44.25"E	(2085490.39,126756.17)	(2085509.53,126762.75)
C75	44.00	40.51	N65° 04' 45.48"E	(2085509.53,126762.75)	(2085544.99,126779.22)
C76	54.00	19.49	N28° 22' 02.20"E	(2085566.26,126805.77)	(2085575.46,126822.82)
C77	50.00	23.69	N31° 36' 04.19"E	(2085575.46,126822.82)	(2085587.76,126842.81)
C78	25.00	33.12	N7° 13' 06.90"E	(2085587.76,126842.81)	(2085591.62,126873.32)
C79	50.00	4.85	N33° 30' 42.99"W	(2085587.62,126880.05)	(2085584.94,126884.09)

DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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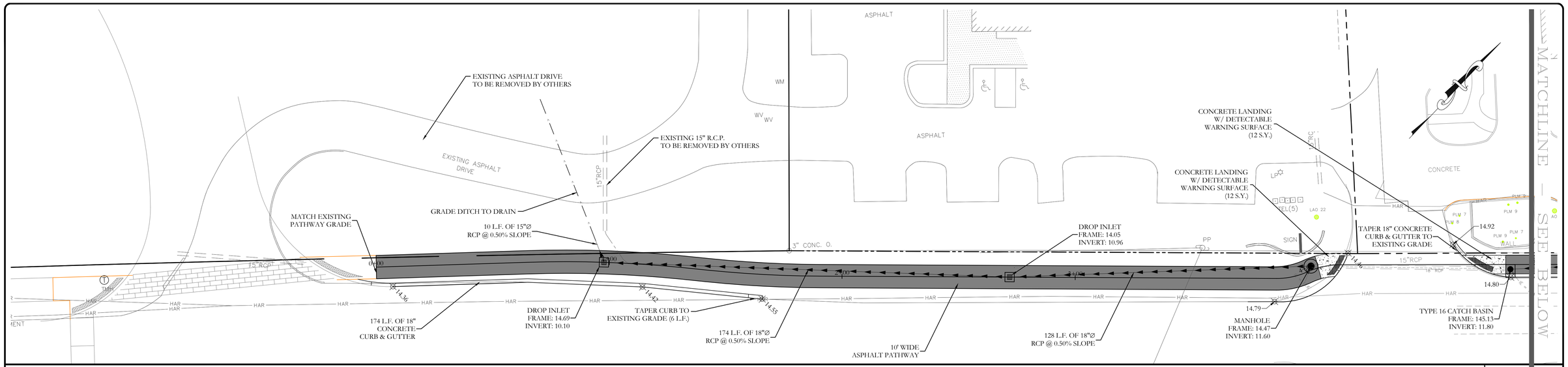
FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

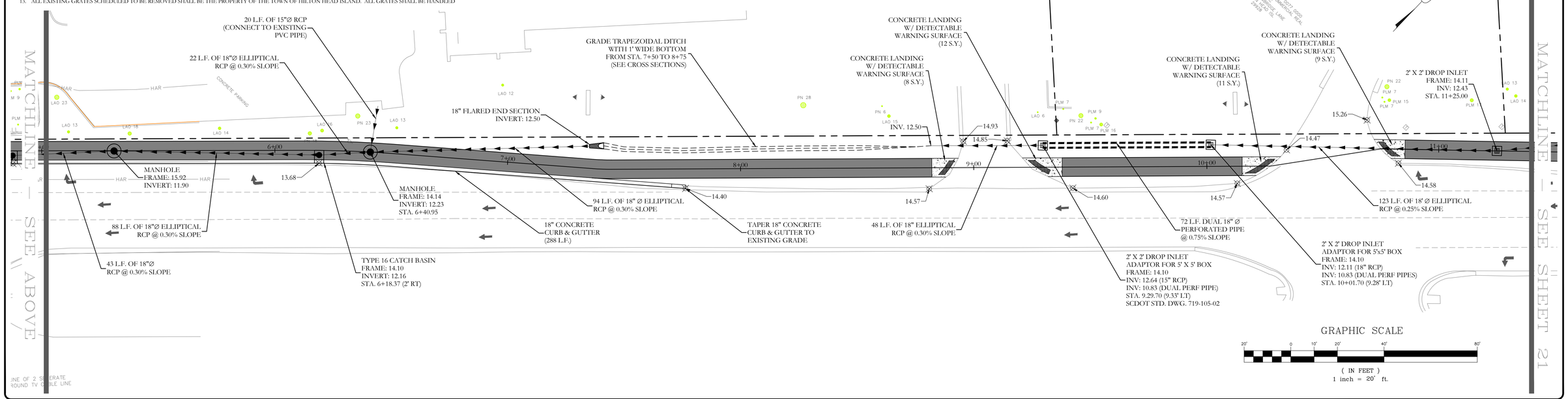
HORIZONTAL CONTROL PLAN

SHEET **19** OF 41



NOTES

1. REFER TO THE GENERAL NOTES AND EROSION CONTROL NOTES ON SHEET 2.
2. UTILITIES SHOWN ARE FROM FIELD SURVEY AS IDENTIFIED BY A UTILITY LOCATOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES SHOWN OR NOT SHOWN PRIOR TO START OF CONSTRUCTION.
3. ALL HIGHWAY CONSTRUCTION SHALL CONFORM TO THE SCDOT "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," LATEST EDITION, AND THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION.
4. ALL ROAD AND DRAINAGE CONSTRUCTION WORK SHALL BE IN COMPLETE ACCORDANCE WITH APPLICABLE SCDOT STANDARDS WITH REGARD TO MATERIALS, LABOR, WORKMANSHIP, SUBMITTALS, SCHEDULING, INSPECTIONS, TESTING, ETC.
5. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND MEASURES AS NECESSARY TO MEET THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATIONS "MUTCD," LATEST EDITION.
7. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH THE FEDERAL HIGHWAY ADMINISTRATION'S "MUTCD," LATEST EDITION, AND THE SCDOT "STANDARD SPECIFICATION'S FOR HIGHWAY CONSTRUCTION," LATEST EDITION. PLEASE NOTE THAT LANE CLOSURES BETWEEN 11:30 AM AND 1:30 PM ARE PROHIBITED.
8. THIS PROJECT WILL BE CONSTRUCTED IN A MANNER THAT PERMIT TRAFFIC TO OPERATE AS NORMALLY, AND WITH AS LITTLE INCONVENIENCE AS POSSIBLE. ADDITIONAL SIGNING AND MARKINGS SHALL BE INSTALLED, AS DIRECTED BY THE OWNER, TOWARD THIS GOAL.
9. CONTRACTOR TO MAINTAIN OPERATION OF ALL PRIVATE ACCESS POINTS UNLESS SPECIFICALLY APPROVED BY THE PROPERTY OWNER AND TOWN OF HILTON HEAD ISLAND.
10. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BRACING, SHEETING, AND DEWATERING TO COMPLETE THE PROJECT, AND PROTECT THE CONSTRUCTION WORKERS AND ALL ADJACENT STRUCTURES, TREES, LANDSCAPING, AND IS RESPONSIBLE FOR ALL REPAIR AND COST NECESSARY TO RESTORE THE PROJECT AREA TO ITS ORIGINAL CONDITION.
11. CONTRACTOR SHALL SHORE EXISTING DRAINAGE STRUCTURES, WALLS, UTILITY POLES, ETC. AS REQUIRED DURING CONSTRUCTION.
12. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING DRAIN PIPE DURING REMOVAL AND REPLACEMENT OF EXISTING CATCH BASINS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE FLOWS DURING CONSTRUCTION. ANY AND ALL REPAIR AND MODIFICATION REQUIRED AT EXISTING PIPE TO NEW CATCH BASIN INTERFACE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. ALL EXISTING GRATES SCHEDULED TO BE REMOVED SHALL BE THE PROPERTY OF THE TOWN OF HILTON HEAD ISLAND. ALL GRATES SHALL BE HANDLED CAREFULLY AND STORED WITHIN THE STAGING AREA.
14. THE CONTRACTOR SHALL ADJUST GRATE INLET, MANHOLE FRAMES, VALVE BOXES AND WATER METERS TO FINISHED GRADE AS REQUIRED.
15. ALL DRAINAGE GRATES SHALL BE SCDOT APPROVED BICYCLE SAFE GRATES. PROVIDE HEAVY DUTY GRATES WITH LONGITUDINAL BARS PERPENDICULAR TO BIKE TRAFFIC.
16. ALL EXISTING PIPES TO REMAIN SHALL BE CLEANED OF SILT AND FOREIGN MATERIAL.
17. AT THE INTERSECTION OF NEW PATHWAY AND EXISTING DRIVEWAYS CONTRACTOR SHALL MATCH EXISTING PAVEMENT ELEVATION AT TIE-IN. CONTRACTOR SHALL SAWCUT EDGE OF EXISTING DRIVEWAY TO PROVIDE A CLEAN NEAT VERTICAL EDGE. MAINTAIN EXISTING DRAINAGE PATTERNS FOR NEW PATHWAYS.
18. ALL CROSSWALKS SHALL BE A NEW SURFACE COURSE OF ASPHALT (TYPE C). CONTRACTOR SHALL MILL EXISTING ASPHALT TO A MINIMUM 1" DEPTH AND REMOVE DEBRIS. CONTRACTOR SHALL INSTALL TACK COAT AND ASPHALT SURFACE PER SCDOT STANDARDS.
19. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
20. ALL SUITABLE MATERIAL EXCAVATED FROM DITCHES AND SWALES SHALL BE USED ON-SITE. ANY EXCESS MATERIAL SHALL BE DISPOSED OFF-SITE AT THE CONTRACTOR'S EXPENSE.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE BORROW MATERIAL NECESSARY FOR CONSTRUCTION DETAILED HEREIN.
22. FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL.
23. CONTRACTOR RESPONSIBLE FOR REPLACING ANY IRRIGATION THAT IS DAMAGED OR REMOVED FOR PATHWAY INSTALLATION.
24. CONCRETE SIDEWALK TO BE BROOM FINISHED.
25. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED WASTE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS.
26. ALL ITEMS REMOVED FROM THE PROJECT WHICH ARE NOT TO BE REUSED SHALL BE MOVED TO A LOCATION APPROVED BY THE OWNER TO ASSURE THAT NO UNSIGHTLY DEBRIS IS UNNECESSARILY PRESENT WITHIN THE PROJECT AREA.



GRAPHIC SCALE

(IN FEET)
1 inch = 20' ft.

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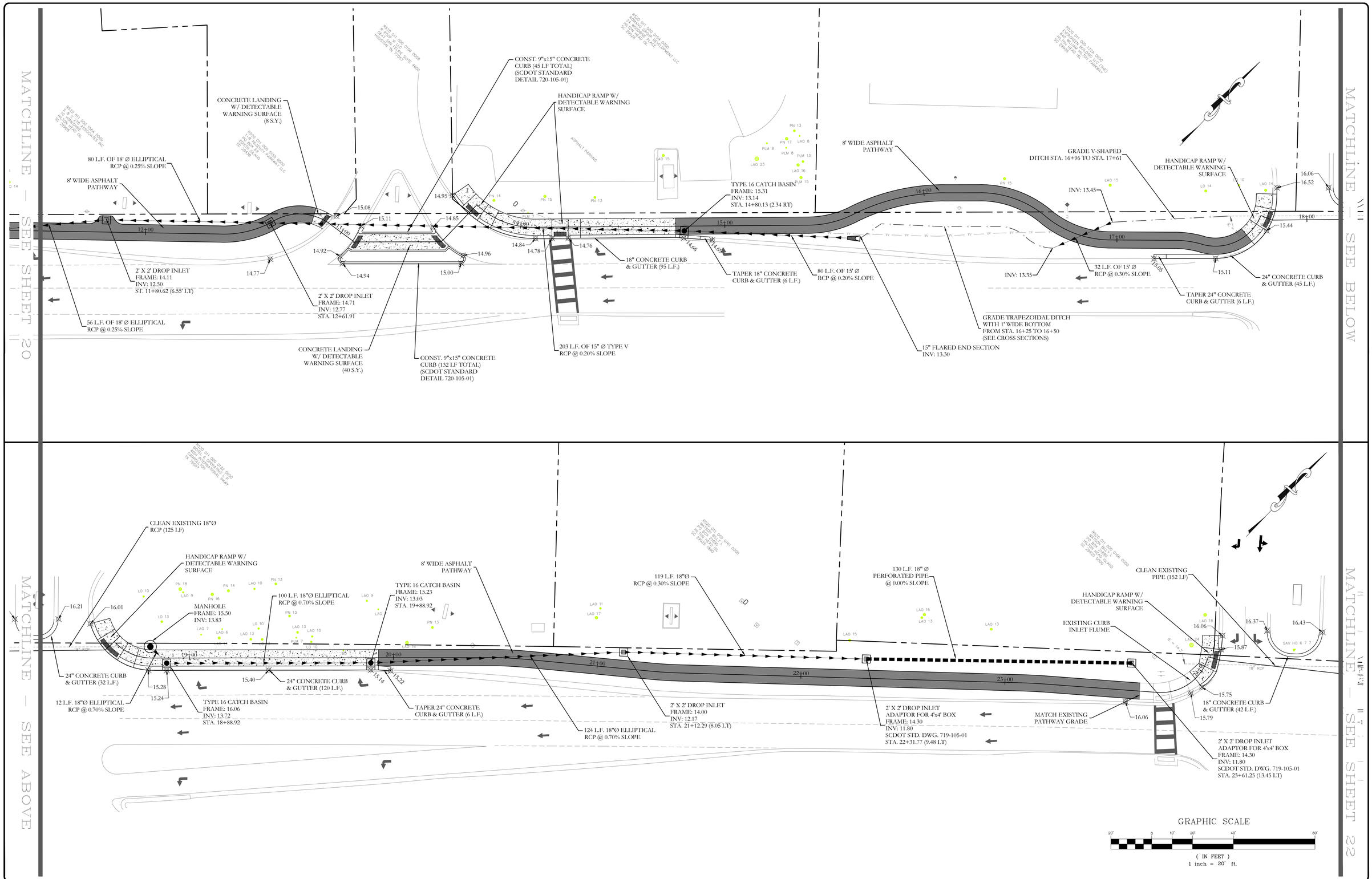
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SITE PLAN

SHEET **20** OF 41



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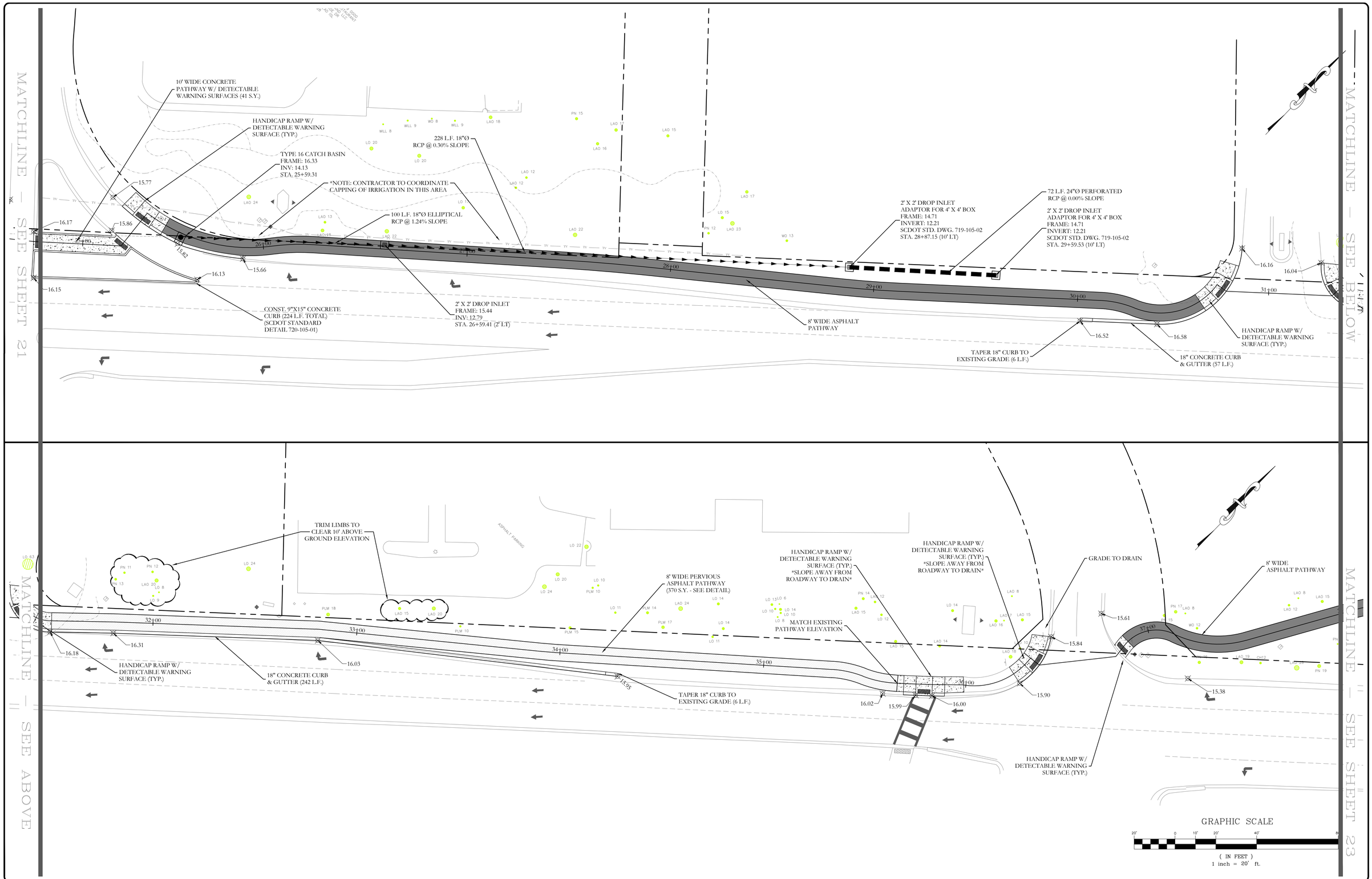
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SITE PLAN

SHEET **21** OF 41



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HARGRAY TO
SHELTER COVE TOWN CENTRE

SITE PLAN

SHEET **22** OF 41

DESCRIPTION	DATE
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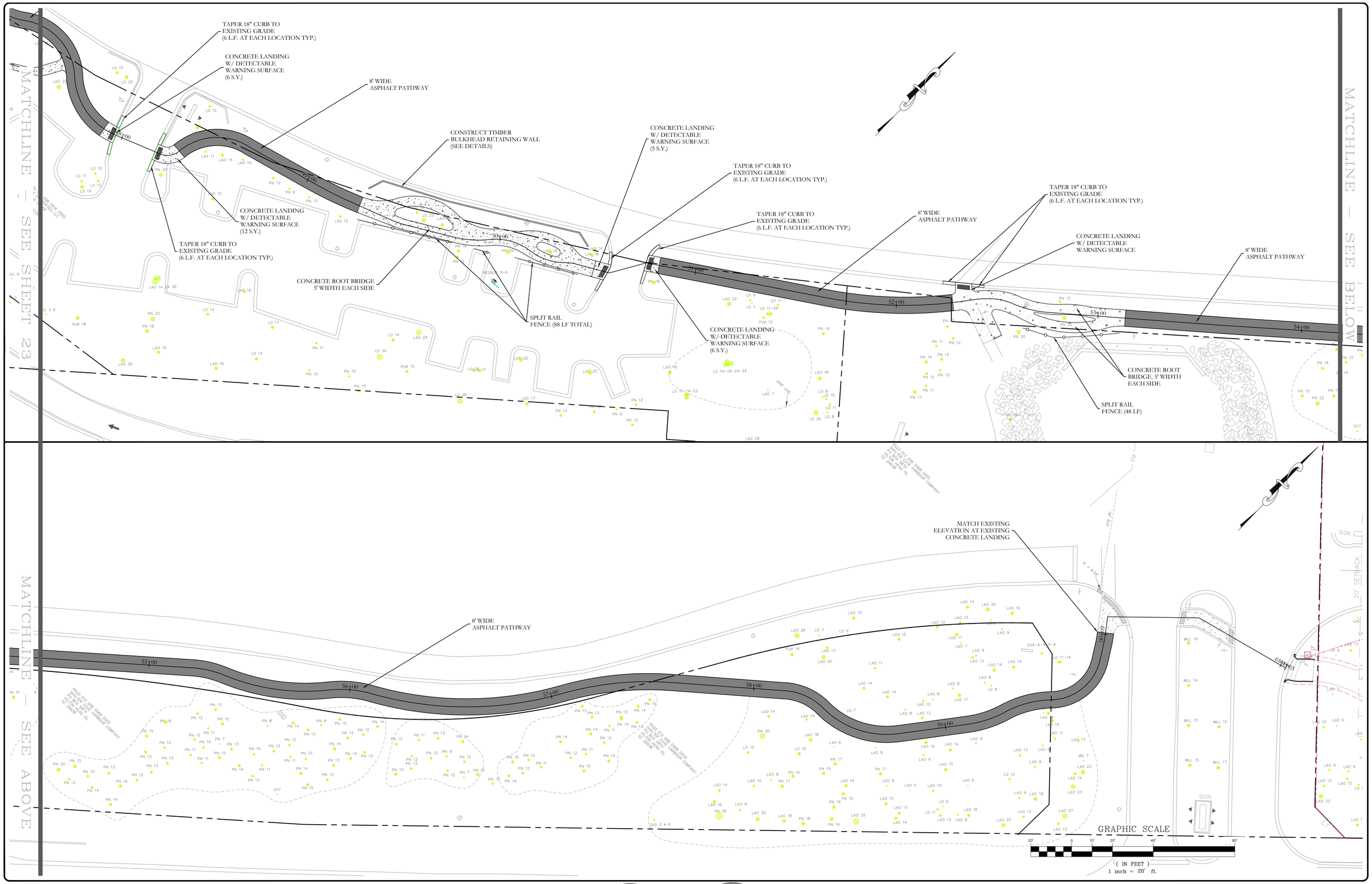
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SITE PLAN

SHEET **23** OF 41



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US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SITE PLAN

SHEET **24** OF 41

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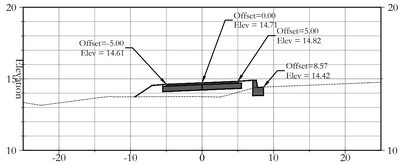

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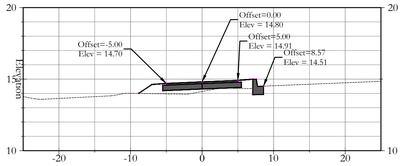

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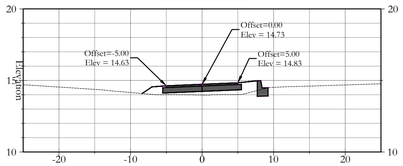

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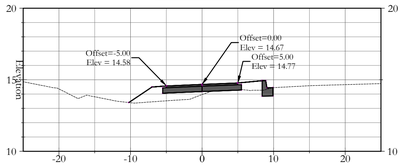

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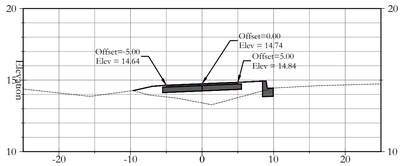

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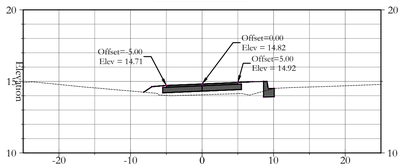

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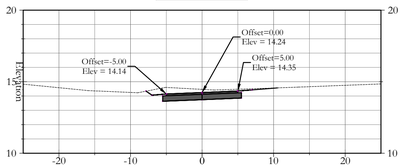

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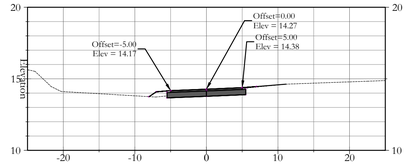

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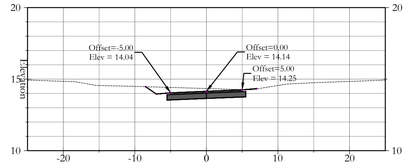

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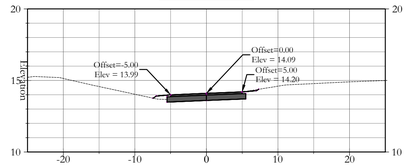

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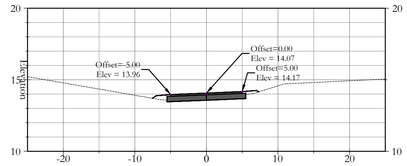

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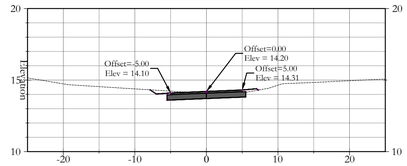

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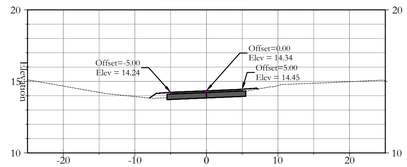

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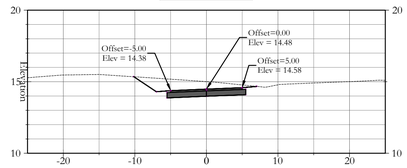

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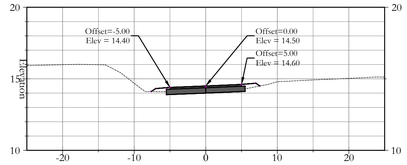

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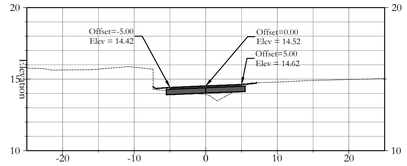

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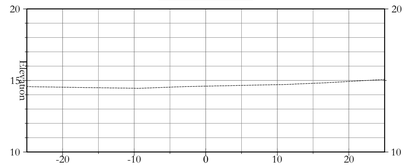

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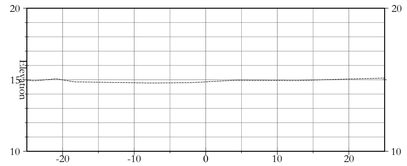

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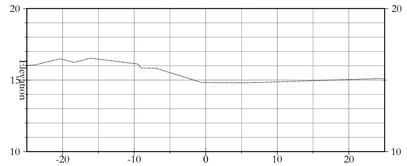

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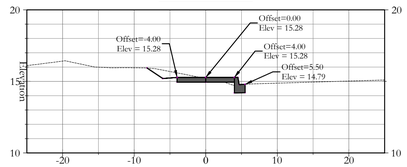

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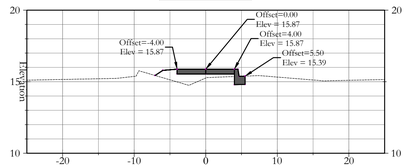

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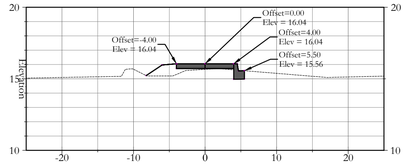

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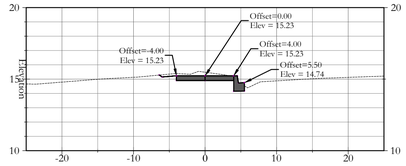

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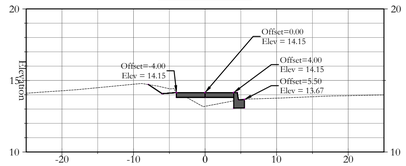

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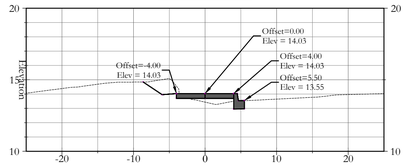

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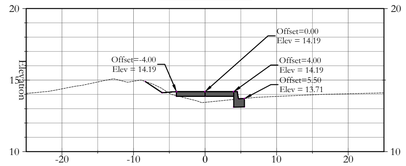

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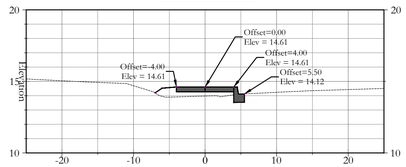

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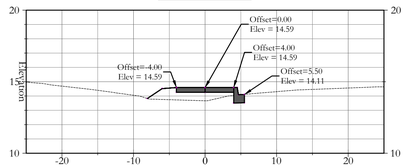

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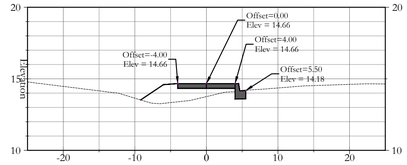

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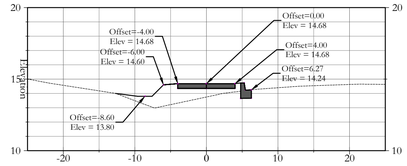

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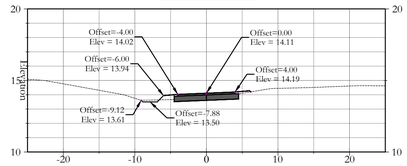

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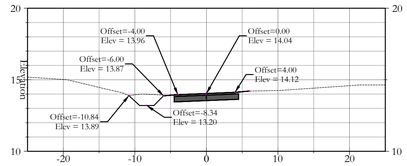

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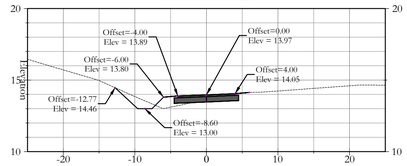

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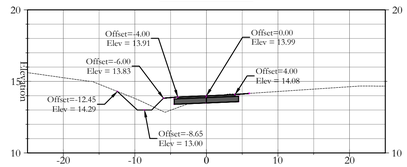

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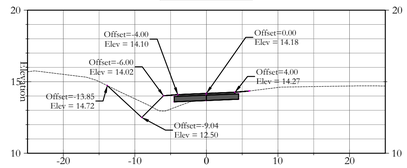


GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

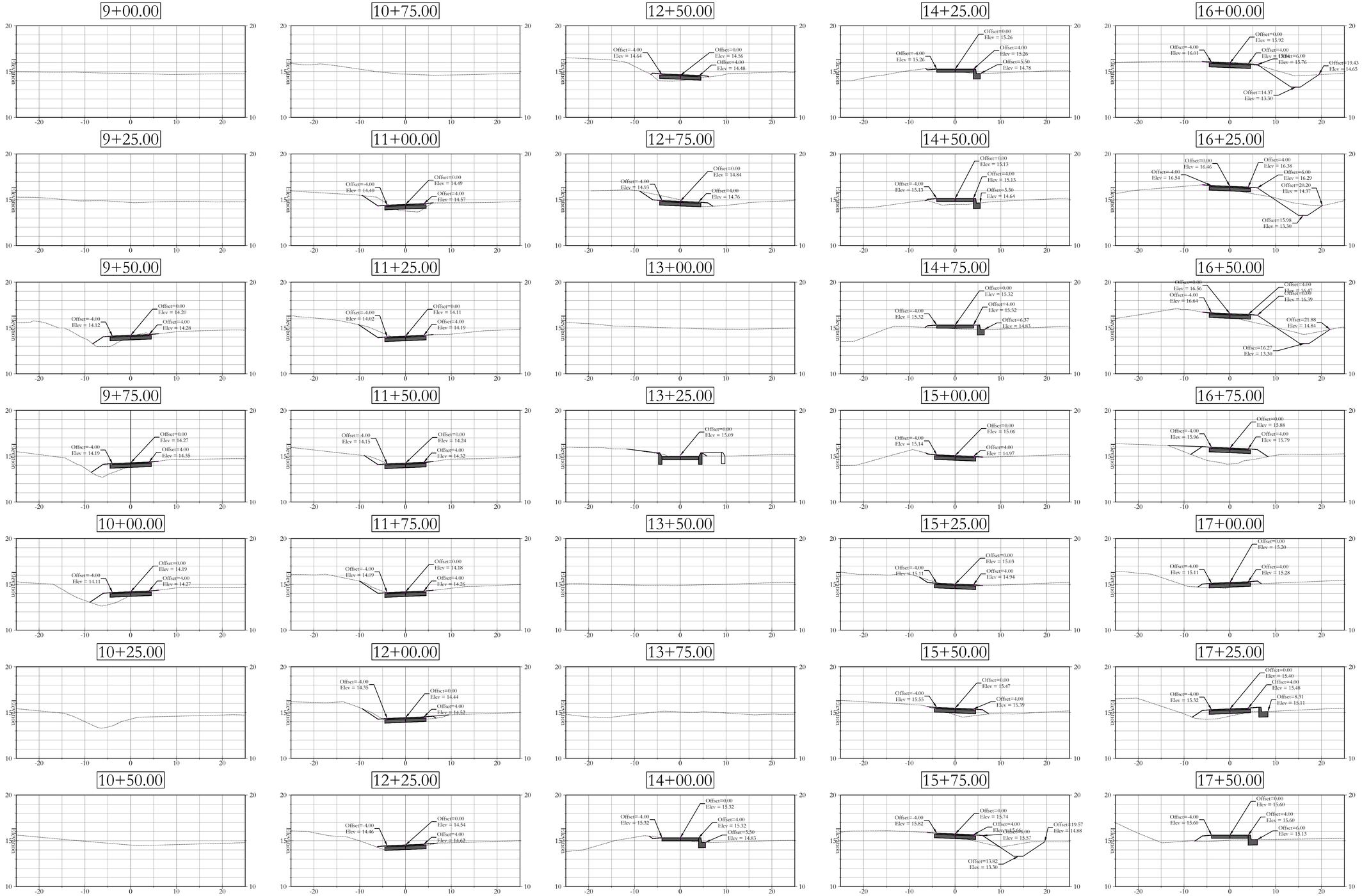
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DRWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET 25 OF 41



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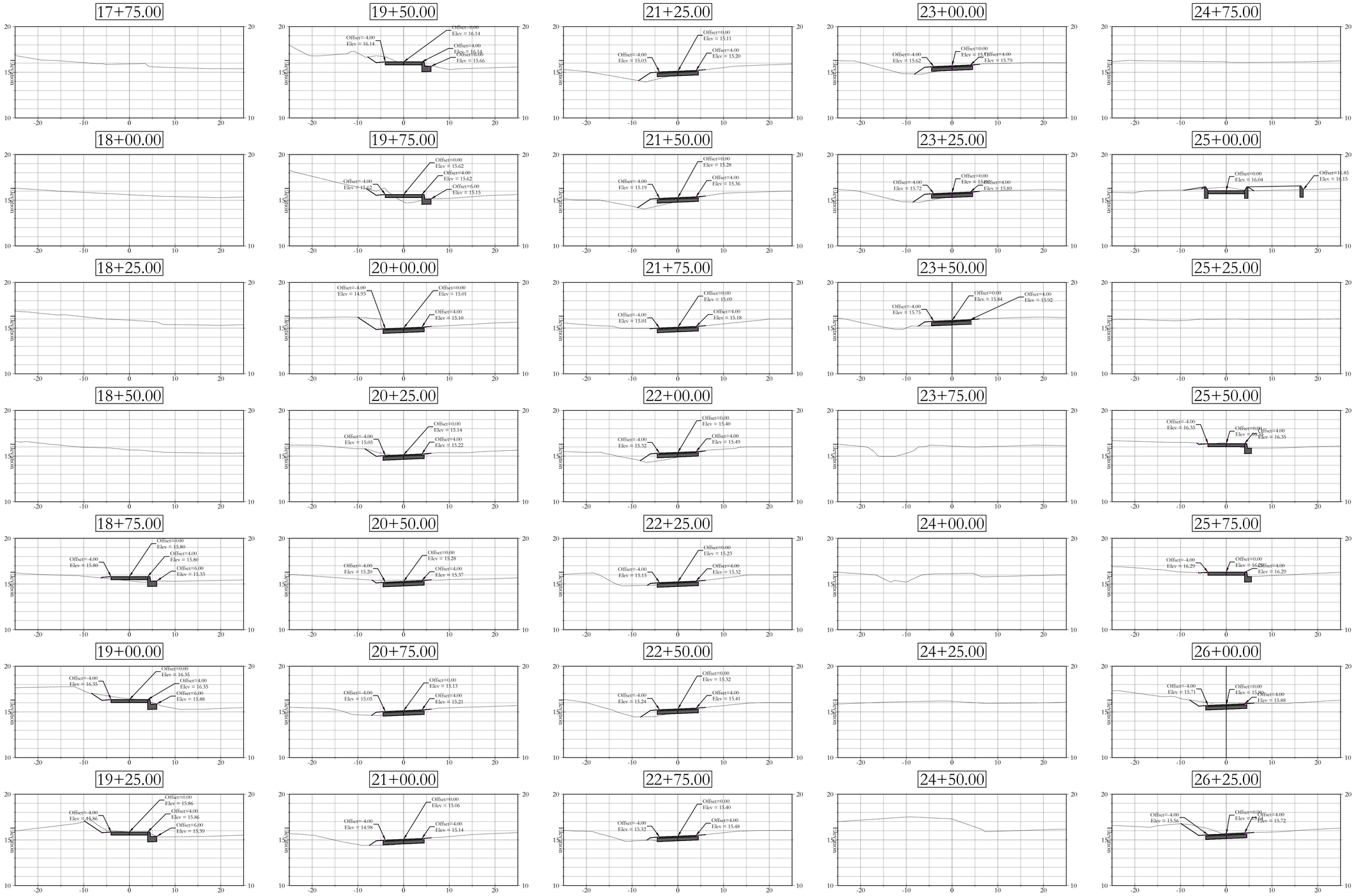
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET **26** OF 41



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US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET **27** OF 41

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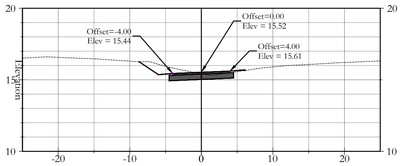

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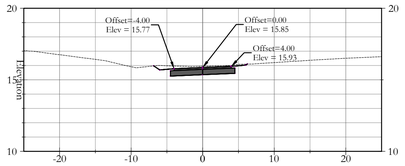

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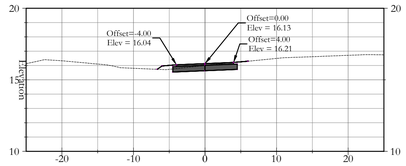

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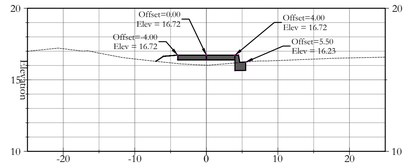

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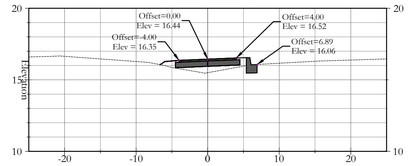

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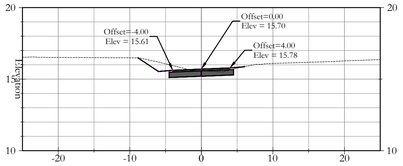

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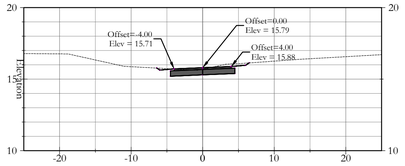

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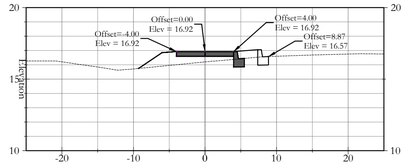

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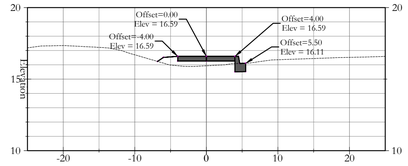

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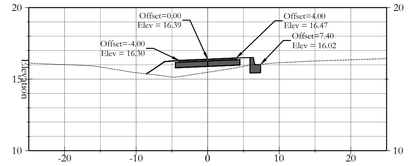

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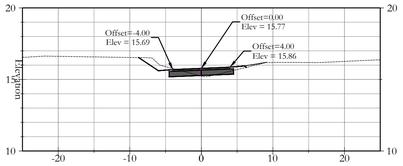

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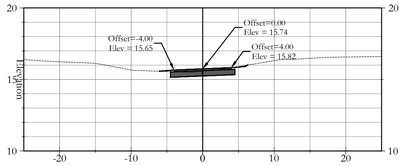

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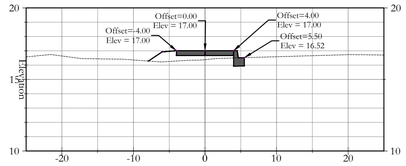

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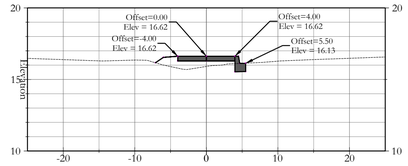

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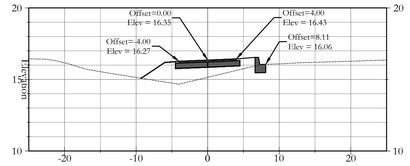

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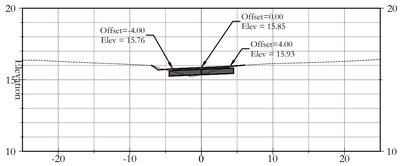

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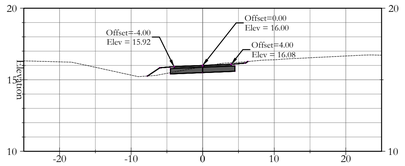

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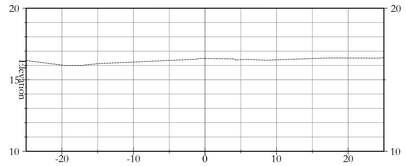

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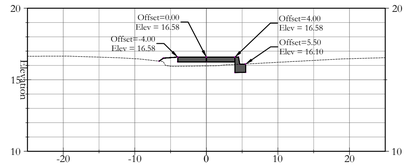

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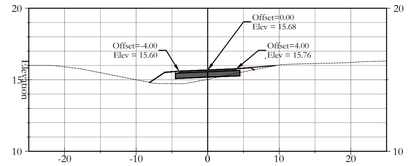

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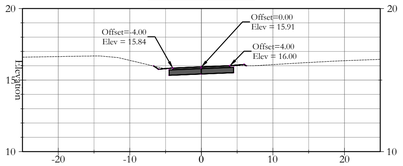

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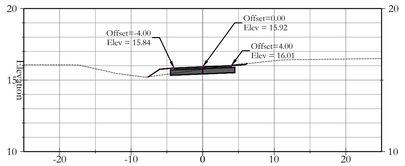

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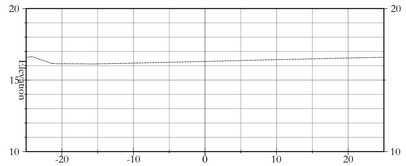

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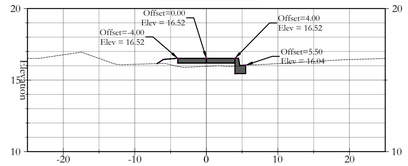

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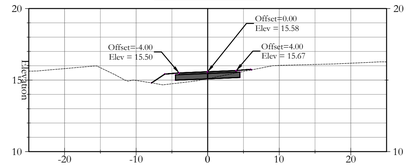

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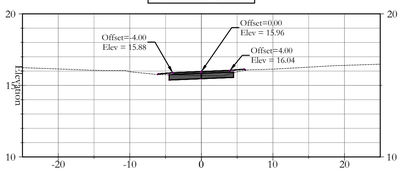

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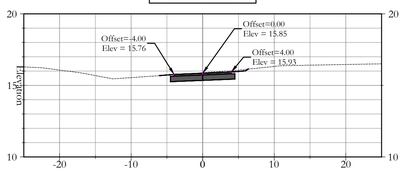

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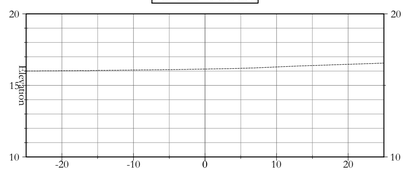

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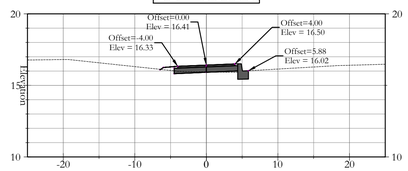

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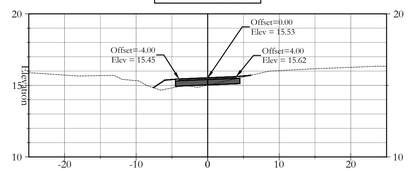

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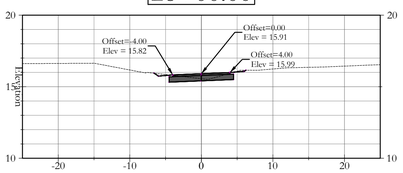

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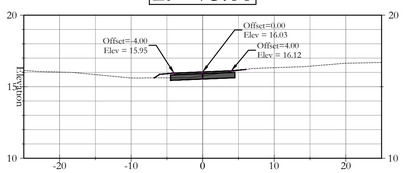

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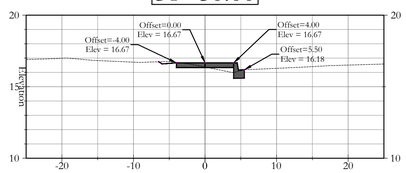

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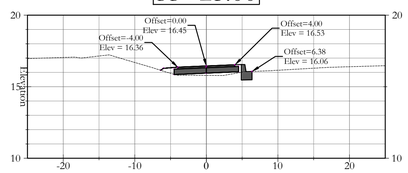

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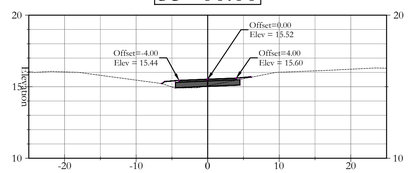


GRAPHIC SCALE

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

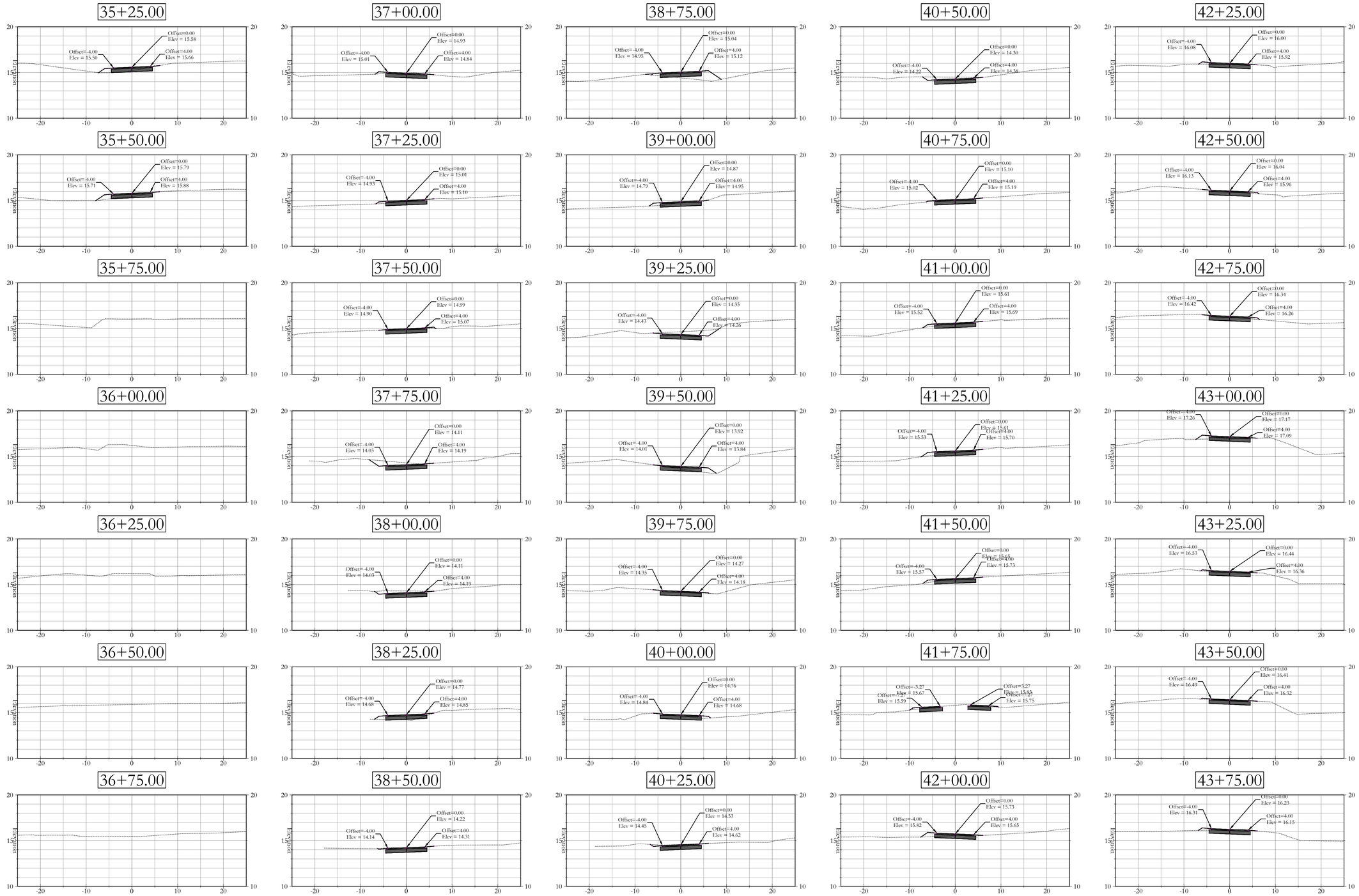
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DRWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET **28** OF 41



GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
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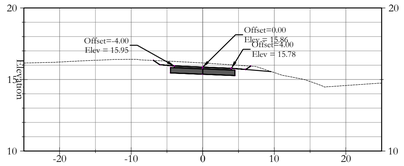
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET **29** OF 41

44+00.00



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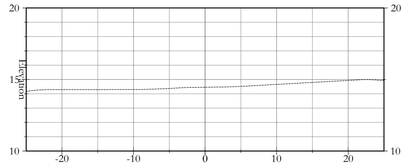

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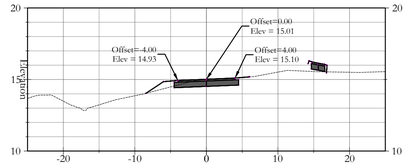

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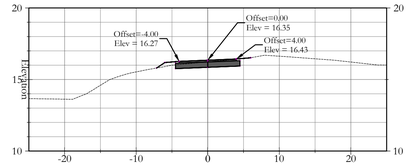

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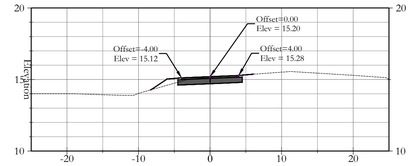

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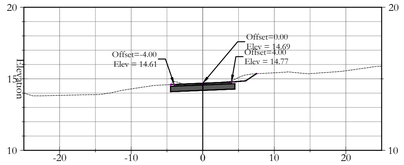

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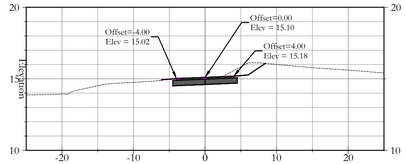

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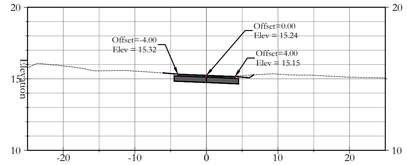

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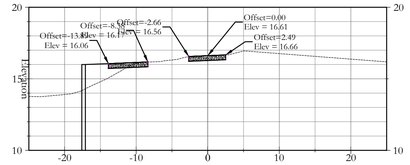

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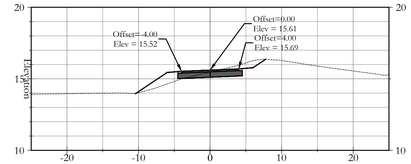

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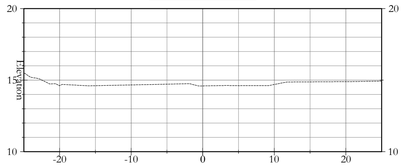

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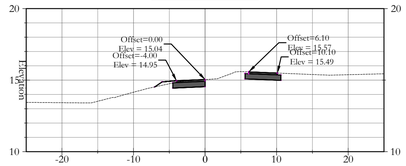

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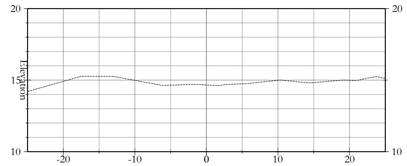

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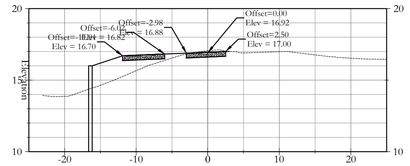

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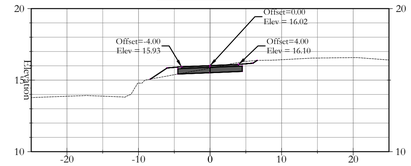

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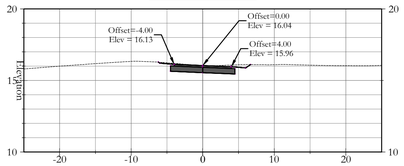

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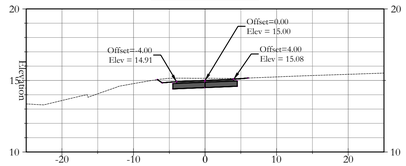

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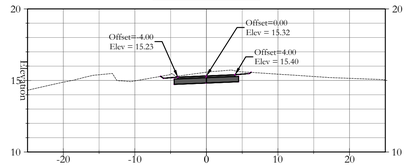

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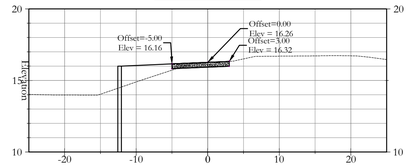

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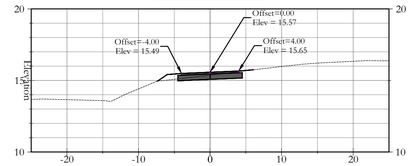

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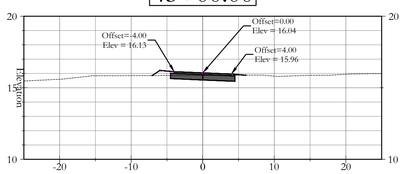

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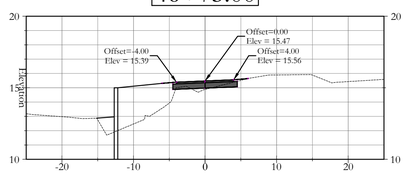

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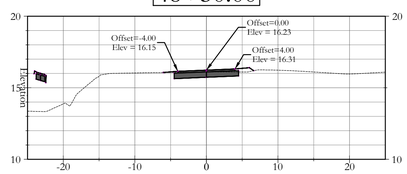

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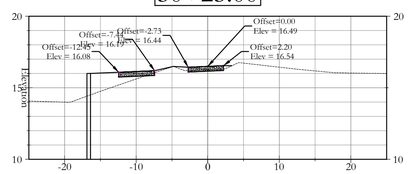

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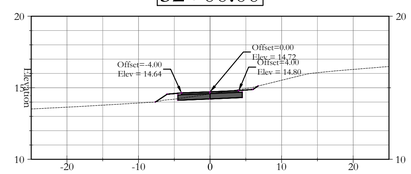

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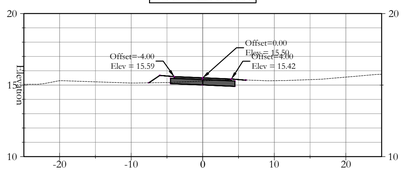

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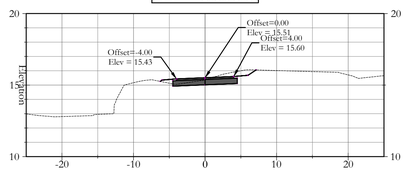

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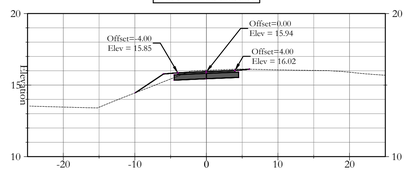

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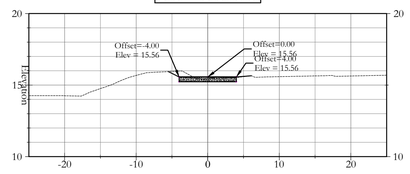

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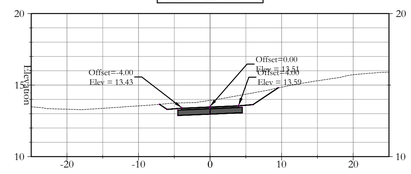

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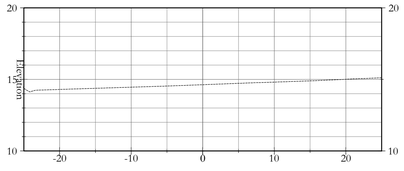

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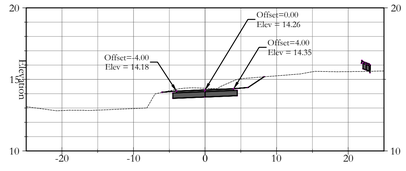

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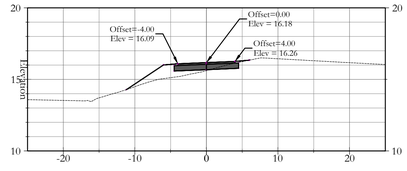

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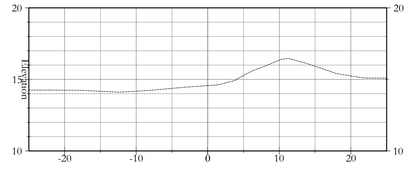

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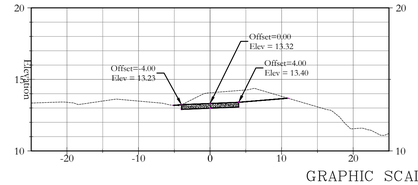

GRAPHIC SCALE

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
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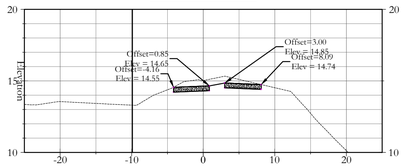
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CROSS SECTIONS

SHEET 30 OF 41

52+75.00



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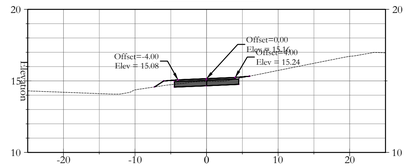

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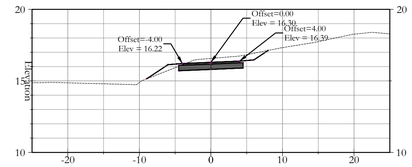

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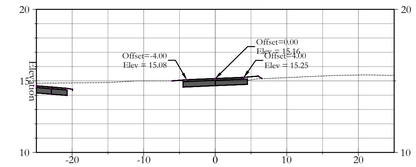

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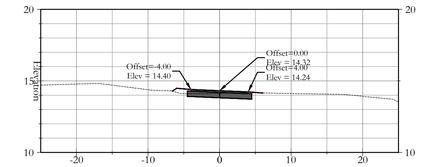

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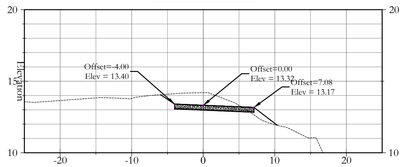

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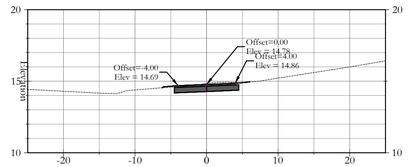

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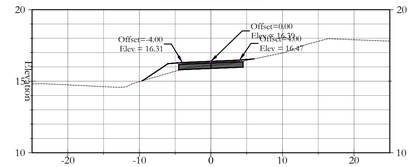

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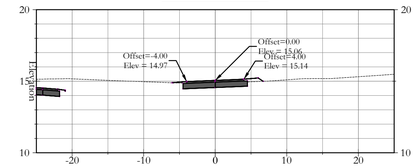

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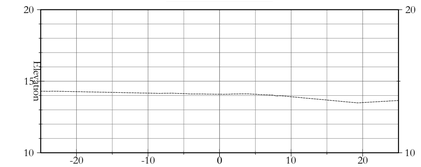

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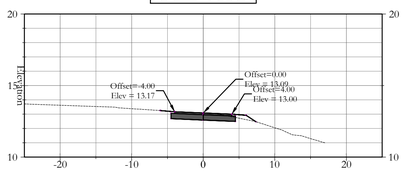

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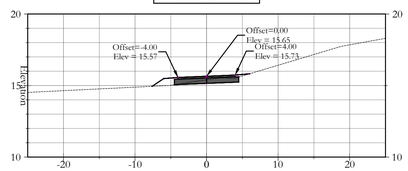

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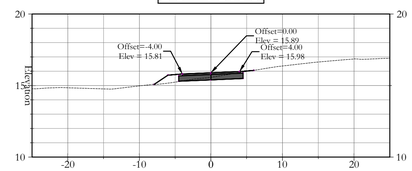

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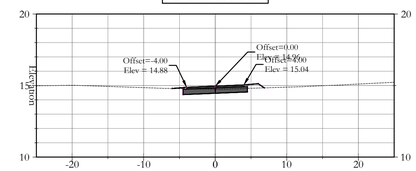

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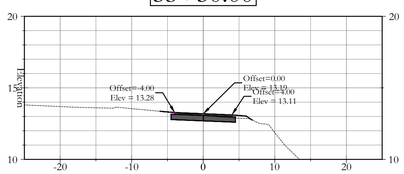

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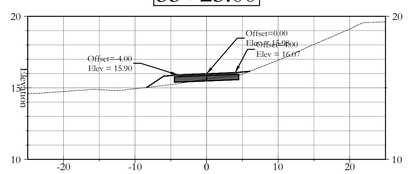

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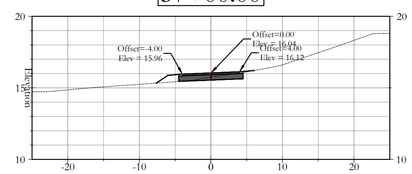

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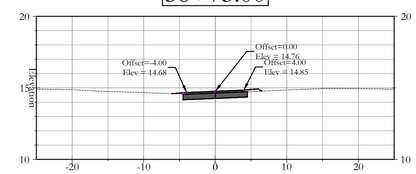

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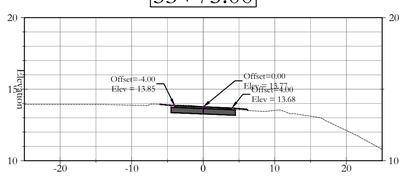

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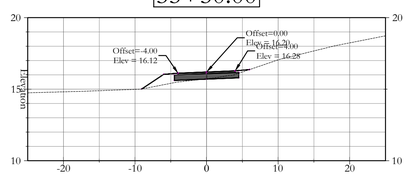

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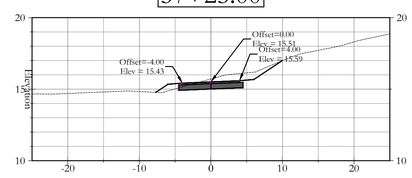

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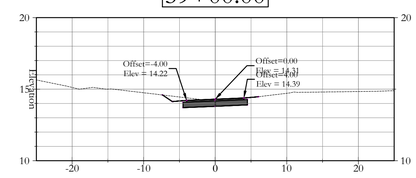

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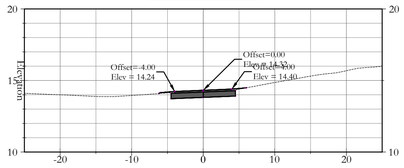

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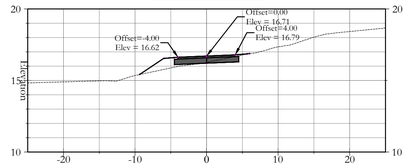

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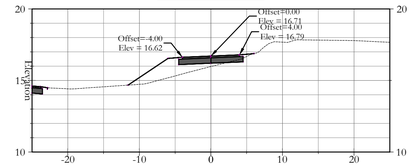

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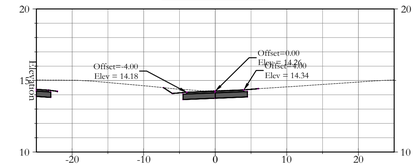

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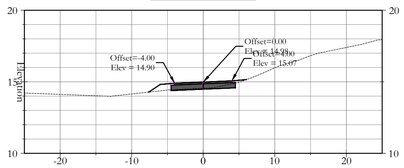

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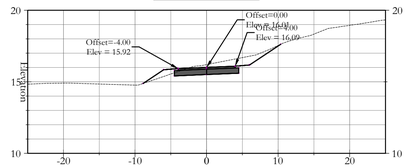

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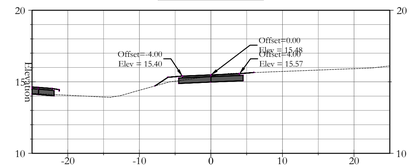

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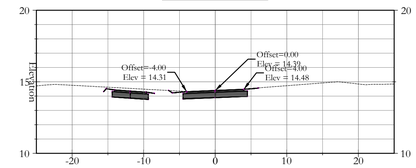

GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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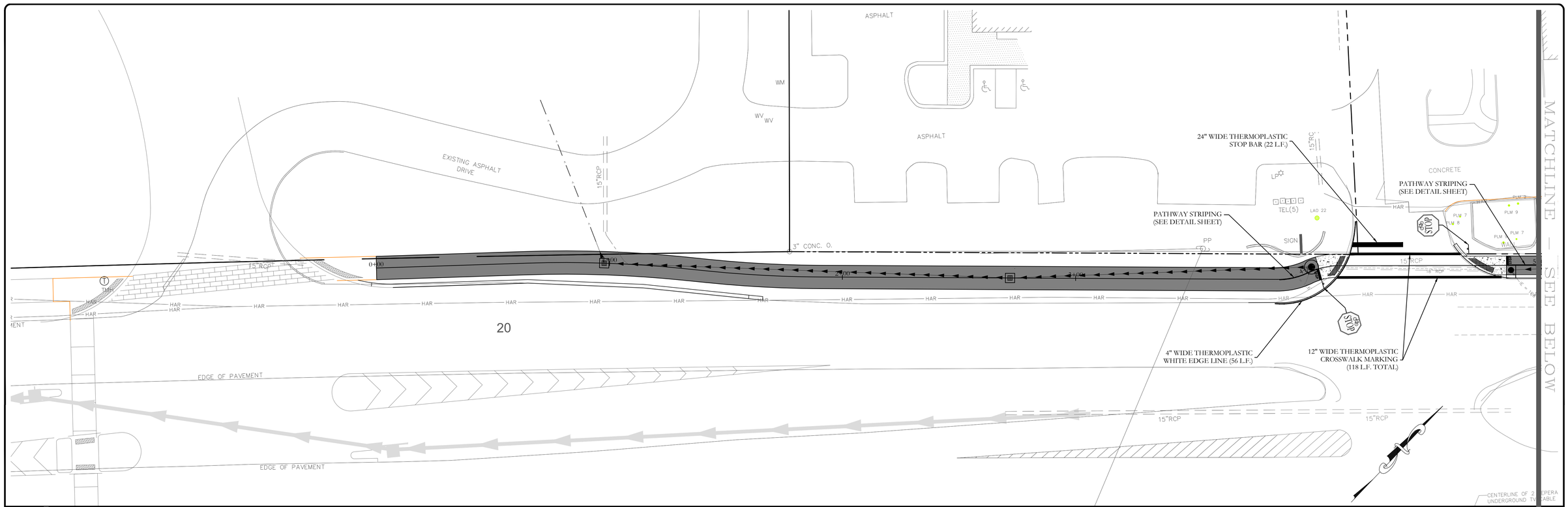
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

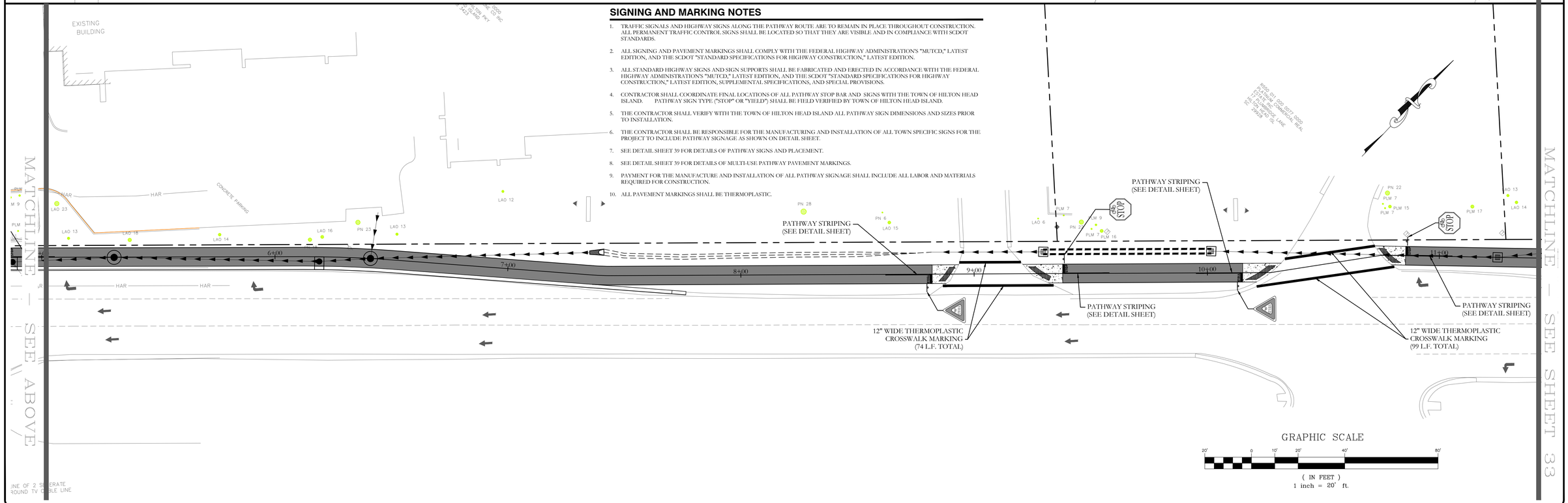
CROSS SECTIONS

SHEET 31 OF 41



SIGNING AND MARKING NOTES

1. TRAFFIC SIGNALS AND HIGHWAY SIGNS ALONG THE PATHWAY ROUTE ARE TO REMAIN IN PLACE THROUGHOUT CONSTRUCTION. ALL PERMANENT TRAFFIC CONTROL SIGNS SHALL BE LOCATED SO THAT THEY ARE VISIBLE AND IN COMPLIANCE WITH SCDOT STANDARDS.
2. ALL SIGNING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE FEDERAL HIGHWAY ADMINISTRATION'S "MUTCD," LATEST EDITION, AND THE SCDOT "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," LATEST EDITION.
3. ALL STANDARD HIGHWAY SIGNS AND SIGN SUPPORTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION'S "MUTCD," LATEST EDITION, AND THE SCDOT "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," LATEST EDITION, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS.
4. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PATHWAY STOP BAR AND SIGNS WITH THE TOWN OF HILTON HEAD ISLAND. PATHWAY SIGN TYPE ("STOP" OR "YIELD") SHALL BE FIELD VERIFIED BY TOWN OF HILTON HEAD ISLAND.
5. THE CONTRACTOR SHALL VERIFY WITH THE TOWN OF HILTON HEAD ISLAND ALL PATHWAY SIGN DIMENSIONS AND SIZES PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MANUFACTURING AND INSTALLATION OF ALL TOWN SPECIFIC SIGNS FOR THE PROJECT TO INCLUDE PATHWAY SIGNAGE AS SHOWN ON DETAIL SHEET.
7. SEE DETAIL SHEET 39 FOR DETAILS OF PATHWAY SIGNS AND PLACEMENT.
8. SEE DETAIL SHEET 39 FOR DETAILS OF MULTI-USE PATHWAY PAVEMENT MARKINGS.
9. PAYMENT FOR THE MANUFACTURE AND INSTALLATION OF ALL PATHWAY SIGNAGE SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED FOR CONSTRUCTION.
10. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.



GRAPHIC SCALE

20' 0 10' 20' 40' 80'

(IN FEET)
1 inch = 20' ft.

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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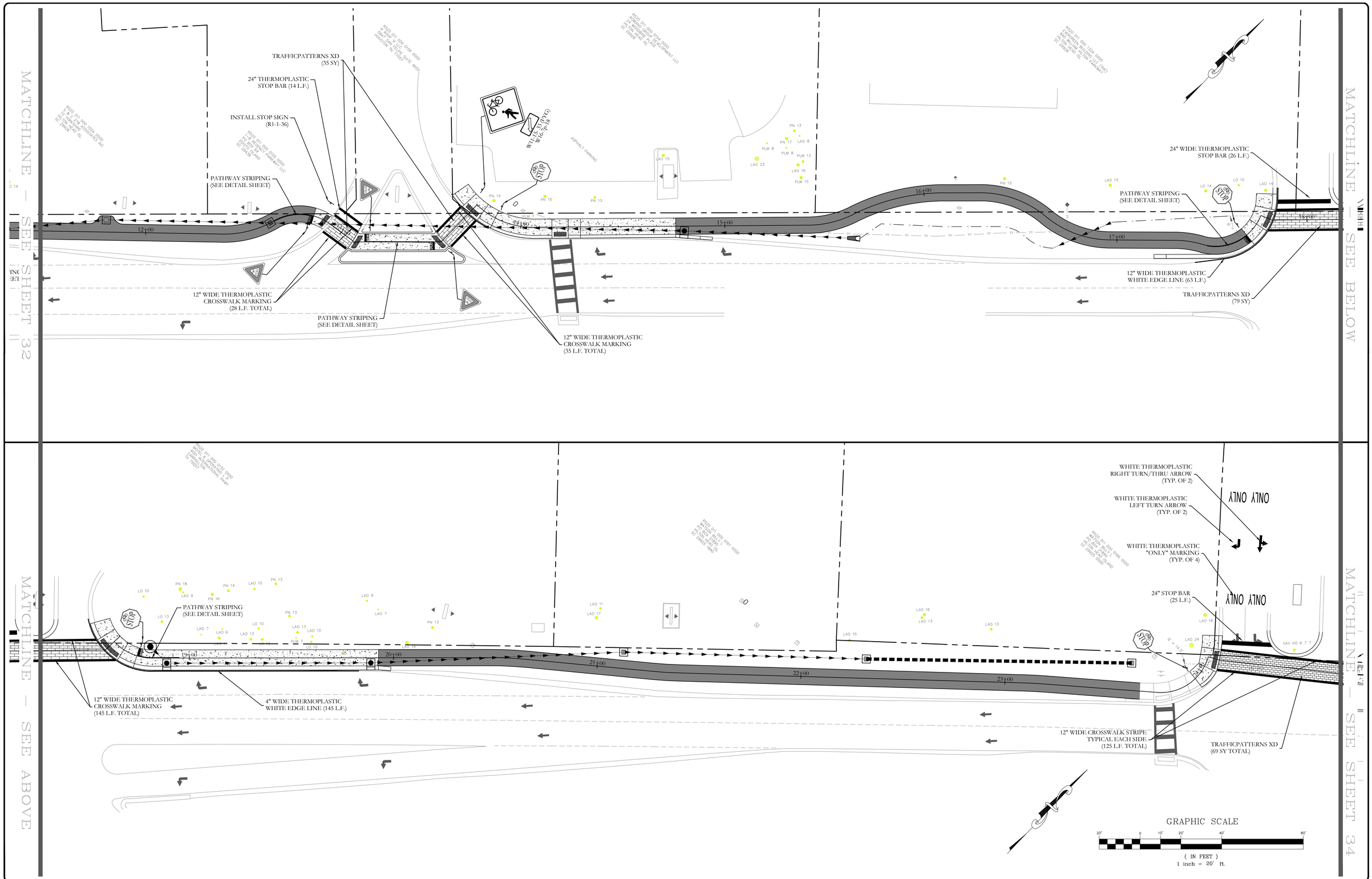
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SIGNING & MARKING PLAN

SHEET 32 OF 41



DESCRIPTION	DATE
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US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SIGNING & MARKING PLAN

SHEET **33** OF 41

DESCRIPTION	DATE
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US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SIGNING & MARKING PLAN

SHEET **34** OF 41

DESCRIPTION	DATE
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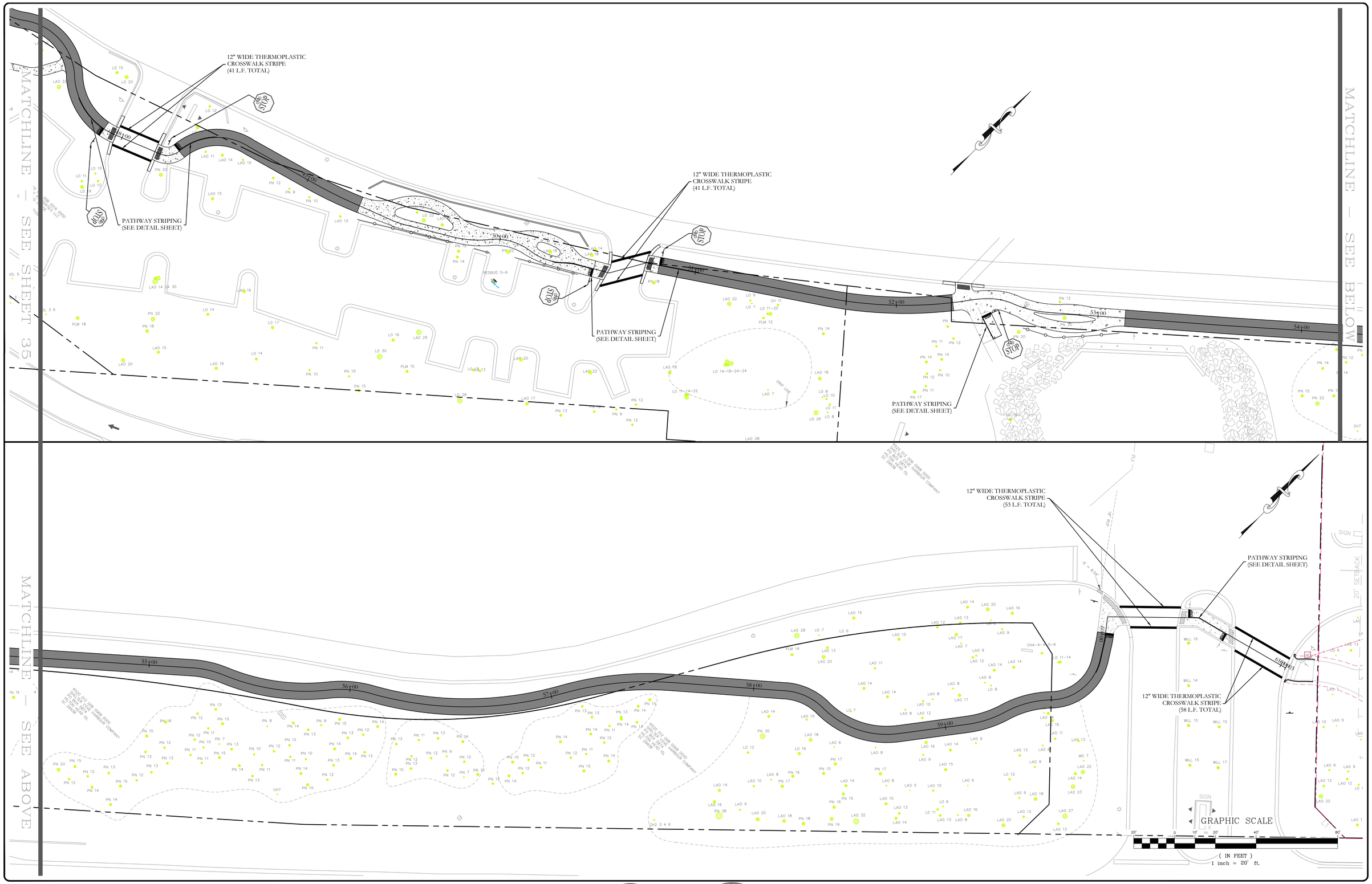
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SIGNING & MARKING PLAN

SHEET **35** OF 41



DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

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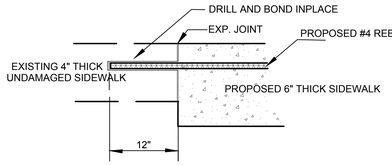
FOR BIDDING PURPOSES ONLY

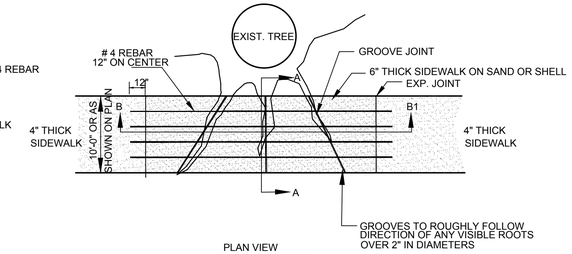
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

SIGNING & MARKING PLAN

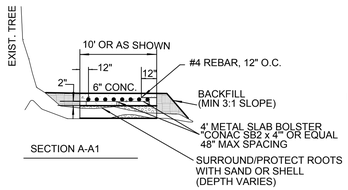
SHEET **36** OF 41



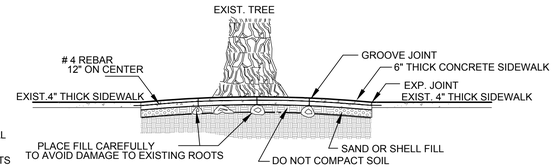
NOTE: ALL CONCRETE FOR ROOT BRIDGING AREAS SHOULD BE COLORED BLACK TO MATCH ASPHALT PAVING. CONCRETE SHOULD BE COLORED TO FULL DEPTH.



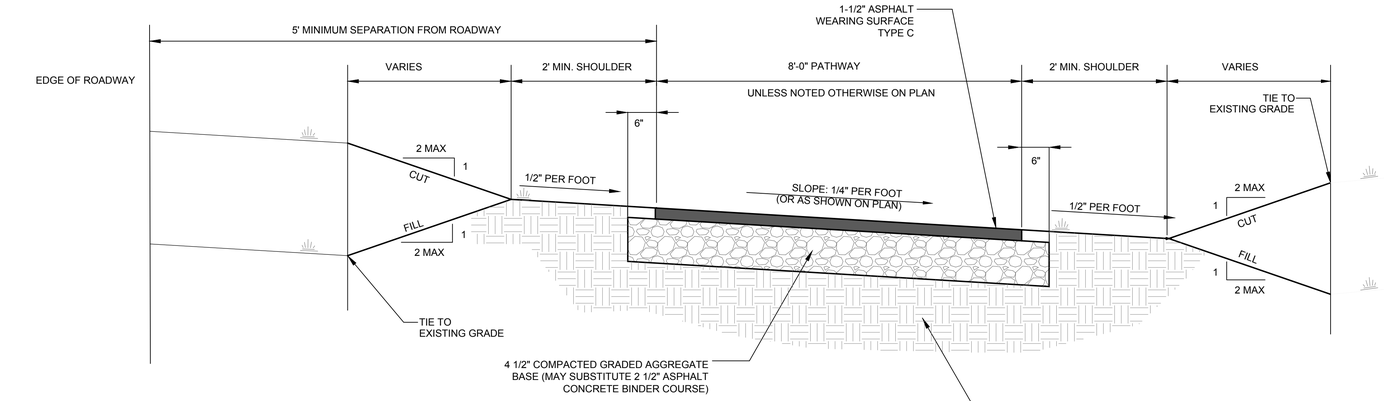
PLAN VIEW



SECTION A-A1



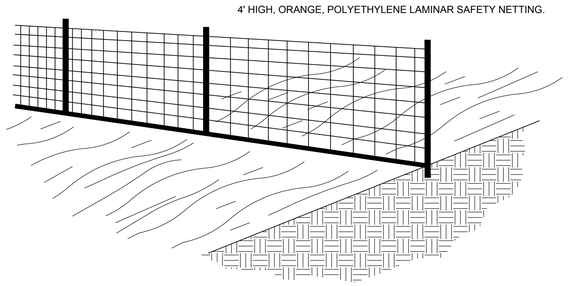
SECTION B-B1



NOTE:
USE TRANSVERSE SECTION FOR ENTIRE LENGTH OF PATHWAY UNLESS OTHERWISE NOTED ON PLANS. SLOPE TOWARDS ROADSIDE DITCH TO ENSURE POSITIVE DRAINAGE.

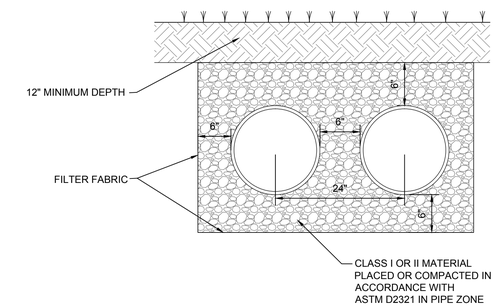
PATHWAY NEAR ROAD SECTION DETAIL

NOT TO SCALE



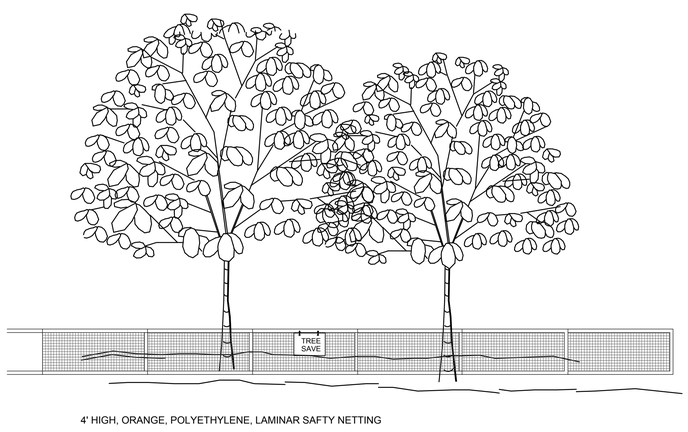
TREE PROTECTION FENCING

NOT TO SCALE



PERFORATED PIPE CROSS SECTION

NOT TO SCALE



TREE PROTECTION FENCING

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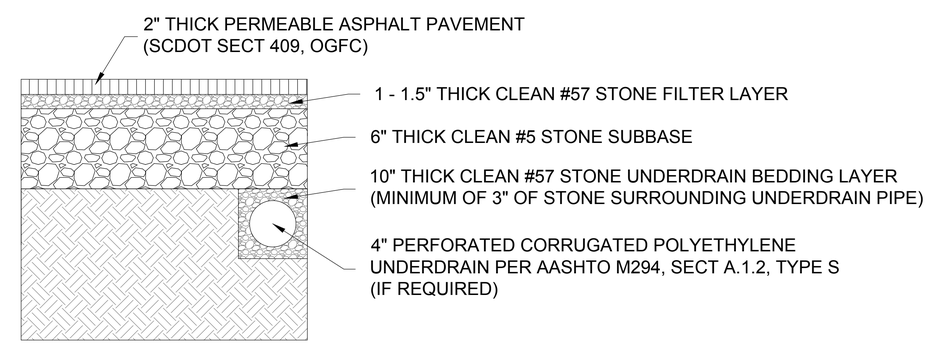

PERVIOUS PAVEMENT SECTION

NOT TO SCALE

DESCRIPTION	DATE
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TOWN OF HILTON HEAD ISLAND
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Engineering Division

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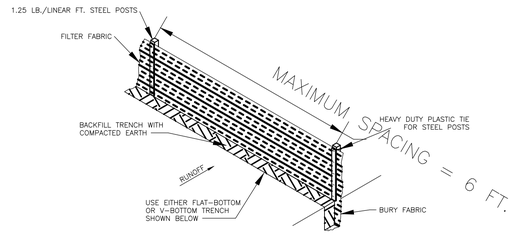
FOR BIDDING PURPOSES ONLY

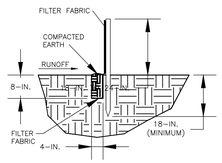
US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CONSTRUCTION DETAILS

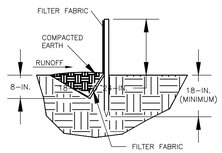
SHEET 37 OF 41



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

South Carolina Department of

SILT FENCE

STANDARD DRAWING NO. **SC-03** **Page 1 of 2**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

SILT FENCE DETAIL

When and Where to Use It
Silt fence is applicable in areas:

Where the maximum sheet or overland flow path length to the fence is 100-feet.
Where the maximum slope steepness (normal [perpendicular] to fence line) is 2H:1V.
That do not receive concentrated flows greater than 0.5 cfs.

Do not place silt fence across channels or use it as a velocity control BMP.

Materials

Steel Posts
Use 48-inch long steel posts that meet the following minimum physical requirements:
Composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "T" section with a nominal face width of 1.38-inches and nominal "T" length of 1.48-inches.
Weigh 1.25 pounds per foot (± 8%).
Have a soil stabilization plate with a minimum cross section area of 17-square inches attached to the steel posts.
Painted with a water based baked enamel paint.

Use steel posts with a minimum length of 4-feet, weighing 1.25 pounds per linear foot (± 8%) with projections to aid in fastening the fabric. Except when heavy clay soils are present on site, steel posts will have a metal soil stabilization plate welded near the bottom such that when the post is driven to the proper depth, the plate will be below the ground level for added stability.
The soil plates should have the following characteristics:
Be composed of minimum 15 gauge steel.
Have a minimum cross section area of 17-square inches.

Geotextile Filter Fabric
Filter fabric is:
Composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polyolefins, polyesters, or polyamides. Formed into a network such that the filaments or yarns retain dimensional stability relative to each other. Free of any treatment or coating which might adversely alter its physical properties after installation. Free of defects or flaws that significantly affect its physical and/or filtering properties. Cut to a minimum width of 36 inches.

Use only fabric appearing on SCDOT Approval Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. **SC-03** **Page 2 of 3**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

SILT FENCE DETAIL

Installation
Excavate a trench approximately 6-inches wide and 6-inches deep when placing fabric by hand. Place 12-inches of geotextile fabric into the 6-inch deep trench, extending the remaining 6-inches towards the upslope side of the trench. Backfill the trench with soil or gravel and compact.Bury 12-inches of fabric into the ground when pneumatically installing silt fence with a slicing method.
Purchase fabric in continuous rolls and cut to the length of the barrier to avoid joints. When joints are necessary, wrapped the fabric together at a support post with both ends fastened to the post, with a 6-inch minimum overlap. Install posts to a minimum depth of 24-inches. Install posts a minimum of 1- to 2- inches above the fabric, with no more than 3-feet of the post above the ground. Space posts to maximum 6-feet centers. Attach fabric to wood posts using staples made of heavy-duty wire at least 1½-inch long, spaced a maximum of 6-inches apart. Staple a 2-inch wide lathe over the filter fabric to securely fasten it to the upslope side of wooden posts. Attach fabric to the steel posts using heavy-duty plastic ties that are evenly spaced and placed in a manner to prevent sagging or tearing of the fabric. In call cases, ties should be affixed in no less than 4 places. Install the fabric a minimum of 24-inches above the ground. When necessary, the height of the fence above ground may be greater than 24-inches. In tidal areas, extra silt fence height may be required. The post height will be twice the exposed post height. Post spacing will remain the same and extra height fabric will be 4-, 5-, or 6-feet tall. Locate silt fence checks every 100 feet maximum and at low points. Install the fence perpendicular to the direction of flow and place the fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

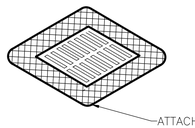
Inspection and Maintenance
Inspect every seven calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation.
Check for sediment buildup and fence integrity. Check where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed by fence overtopping.
If the fence fabric tears, begins to decompose, or in any way becomes ineffective, replace the section of fence immediately.
Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected.
Remove trapped sediment from the site or stabilize it on site.
Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed.
Permanently stabilize disturbed areas resulting from fence removal.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. **SC-03** **Page 3 of 3**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE



FILTER FABRIC INSTALLATION DETAIL

FILTER FABRIC INLET PROTECTION

Materials:
Use filter fabric that conforms to SCDOT standard specifications for highway construction (latest edition). Refer to the silt fence geotextile fabrics Approval Sheet #34.

Attach fabric under existing grate with 6" overlap.

Inspection and Maintenance:
Inspections should be made every 7 calendar days and within 24-hours after each storm that produces ½-inches or more of rain.If the fabric becomes clogged, it should be replaced. Sediment should be removed when it reaches approximately 1/3 the height of the fence. Take care not to damage or undercut fabric when removing sediment.If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole. Maintain the pool area, always providing adequate sediment storage volume for the next storm.

Storm drain inlet protection structures should be removed only after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Use appropriate permanent stabilization methods to stabilize bare areas around the inlet.

South Carolina Department of Health and Environmental Control

TYPE A - FILTER FABIC INLET PROTECTION

STANDARD DRAWING NO. **SC-07** **Page 1**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

FILTER FABRIC INLET PROTECTION

Materials:
Use filter fabric that conforms to SCDOT standard specifications for highway construction (latest edition). Refer to the silt fence geotextile fabrics Approval Sheet #34.

Use steel posts that meet the following minimum physical requirements:
Be composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "T" section with a nominal face width of 1.38-inches and nominal "T" length of 1.48-inches.
Weigh 1.25 pounds per foot (± 8%).
Be painted with a water based baked enamel paint.

Attach fabric to metal posts with heavy-duty plastic ties.

Installation:
Excavate a trench 6-inches wide and 6-inches deep around the outside perimeter of the inlet unless the fabric is pneumatically installed.

Extend the filter fabric a minimum of 12-inches into the trench. Backfill the trench with soil or crushed stone and compact over the filter fabric unless the fabric is pneumatically installed.

Use steel posts with a minimum post length of 60-inches consisting of standard "T" sections with a weight of 1.25 pounds per foot (±8%). Install the filter fabric to a minimum height of 24-inches above grade. Space the steel posts around the perimeter of the inlet a maximum of 3-feet apart and drive them into the ground a minimum of 24-inches. Cut the filter fabric from a continuous roll to the length of the protected area to avoid the use of joints. When joints are necessary, wrap filter fabric together only at a support post with both ends securely fastened to the post, with a minimum 6-inch overlap.

Attach fabric to steel posts with heavy-duty plastic ties.

Attach at least four (4) evenly spaced ties in a manner to prevent sagging or tearing of the fabric. In all cases, affix ties in no less than four (4) places.

Inspection and Maintenance:
Inspections should be made every 7 calendar days and within 24-hours after each storm that produces ½-inches or more of rain.If the fabric becomes clogged, it should be replaced.
Sediment should be removed when it reaches approximately 1/3 the height of the fence. Take care not to damage or undercut fabric when removing sediment.If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.Maintain the pool area, always providing adequate sediment storage volume for the next storm.

Storm drain inlet protection structures should be removed only after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly.
Grade the disturbed area to the elevation of the drop inlet structure crest. Use appropriate permanent stabilization methods to stabilize bare areas around the inlet.

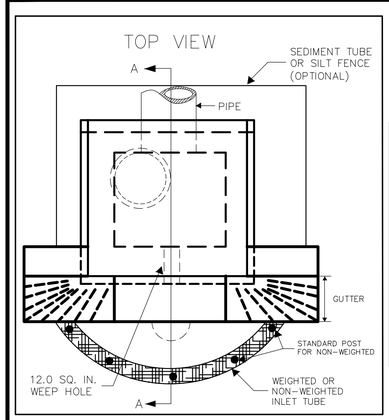
South Carolina Department of Health and Environmental Control

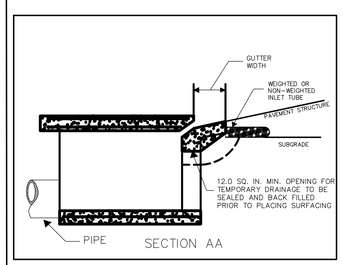
Type A

FILTER FABIC INLET PROTECTION

STANDARD DRAWING NO. **SC-07** **Page 2 of 2**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE





South Carolina Department of Health and Environmental Control

TYPE F INLET TUBES

STANDARD DRAWING NO. **SC-11** **Page 1 of 2**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

Type F Inlet Tubes
Materials
Use inlet tubes that exhibit the following properties:
Produced by a Manufacturer experienced in sediment tube manufacturing.
Composed of compacted geotextiles, curled excelsior wood, natural coconut fibers or hardwood mulch or a mix of these materials enclosed by a flexible netting material.
Do not use straw, straw fiber, straw bales, pine needles or leaf mulch under this specification.
Utilize an outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable materials.Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products (RECP) rolled up to create an inlet tube devices are not allowed under this specification.

Weighted Inlet Tubes
Weighted inlet tubes are sediment tubes capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.

Materials
Applicable Type F weighted inlet tubes may be selected from the SCDOT approved products list.

Installation:
Install weighted inlet tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube.
Never stack weighted inlet tubes on top of one another.

Do not completely block inlets with weighted inlet tubes.

Install weighted inlet tubes in such a manner that all overflow or overtopping water has the ability to enter the inlet unobstructed.

To avoid possible flooding, two or three concrete cinder blocks may be placed between the weighted inlet tubes and the inlet.

Non-Weighted Inlet Tubes
Non-weighted inlet tubes are defined as sediment tubes that require staking or other stabilization methods to keep them safely in place.

Materials
Applicable Type F non-weighted inlet tubes may be selected from the SCDOT approved products list.

Inspection and Maintenance:
Inlet tubes may be temporarily moved during construction as needed.
Replace inlet tubes damaged during installation as directed by the Inspector or Manufacturer's Representative at the contractor's expense.

South Carolina Department of Health and Environmental Control

TYPE F INLET TUBES

STANDARD DRAWING NO. **SC-11** **Page 2 of 2**

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

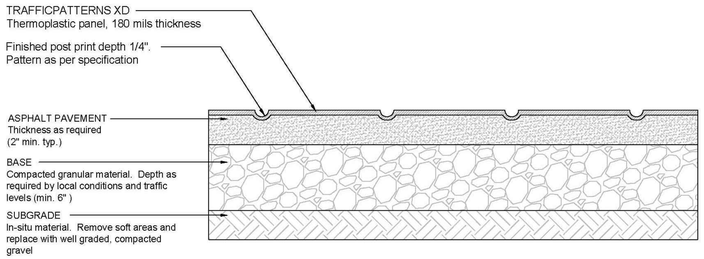
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CONSTRUCTION DETAILS

SHEET **38** OF 41



TYPICAL PAVEMENT WITH TRAFFICPATTERNS XD CROSS-SECTION DETAIL
Good Subgrade Support
Characterized by Firm to Hard Soils

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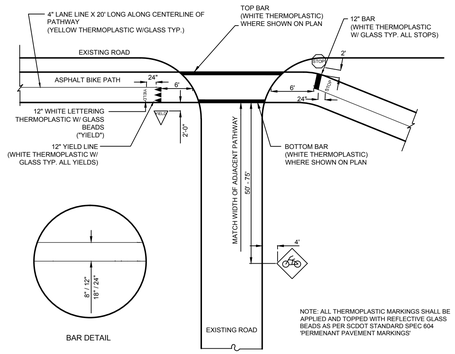
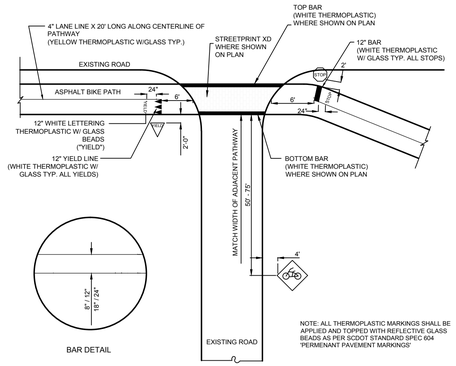


STRIPING AT DRIVEWAY CROSSING
NOT TO SCALE



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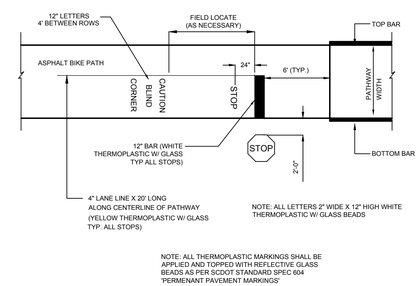
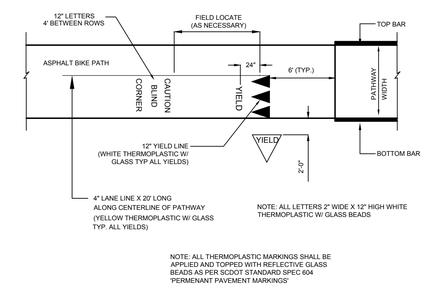


SIGNAGE - STOP GRAPHIC DETAIL
NOT TO SCALE



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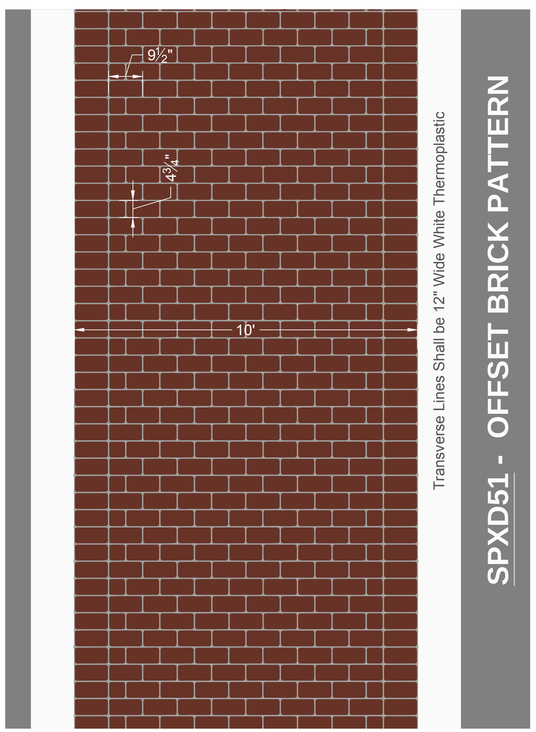
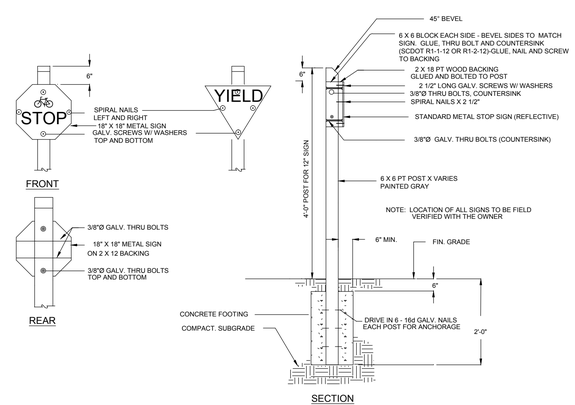


AVAILABLE CROSSWALK WIDTHS			
inches	feet	ft inch	meters
72.000	6.00 ft	6 ft 0 in	1.83 m
86.400	7.20 ft	7 ft 2 in	2.19 m
96.000	8.00 ft	8 ft 0 in	2.44 m
110.400	9.20 ft	9 ft 2 in	2.80 m
120.000	10.00 ft	10 ft 0 in	3.05 m
134.400	11.20 ft	11 ft 2 in	3.41 m
144.000	12.00 ft	12 ft 0 in	3.66 m
168.000	14.00 ft	14 ft 0 in	4.27 m
192.000	16.00 ft	16 ft 0 in	4.88 m
216.000	18.00 ft	18 ft 0 in	5.49 m
240.000	20.00 ft	20 ft 0 in	6.10 m

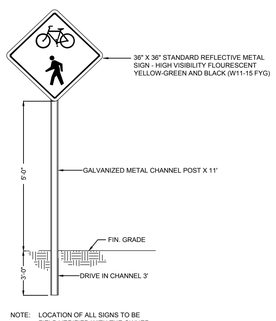
NOTE: Widths measure inside to inside of transverse lines

TrafficPatternsXD™ A TrafficScape™ Product BY FLINT

Last Revision: Jan 2010



SIGNAGE -STOP/YIELD 18"
NOT TO SCALE



SIGNAGE - VEHICULAR TRAFFIC WARNING SIGN
NOT TO SCALE

DESCRIPTION	DATE
REVISIONS	

TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

CONSTRUCTION DETAILS

SHEET **39** OF 41

REFERENCES

NATIONAL DOCUMENTS

ASTM C55, ASTM A706, AASHTO M105, AASHTO M306

SCDOT DOCUMENTS

QUALIFIED PRODUCT LIST 13,
QUALIFIED PRODUCT LIST 14,
QUALIFIED PRODUCT LIST 45

RELATED DRAWINGS & KEYWORDS

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

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA PROFESSIONAL ENGINEER
NO. 8858
EDWIN SYLVESTER EARGLE, III

E S Eargle
SIGNATURE

MARCH 3, 2008
DATE

#	DATE	CHK	DESCRIPTION
6			
5			
4			
3			
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1			
0	3/2008	DSO	GENERAL REVISIONS

SCDOT

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

STANDARD DRAWING

DROP INLET (24"X24") DETAILS

719-105-01

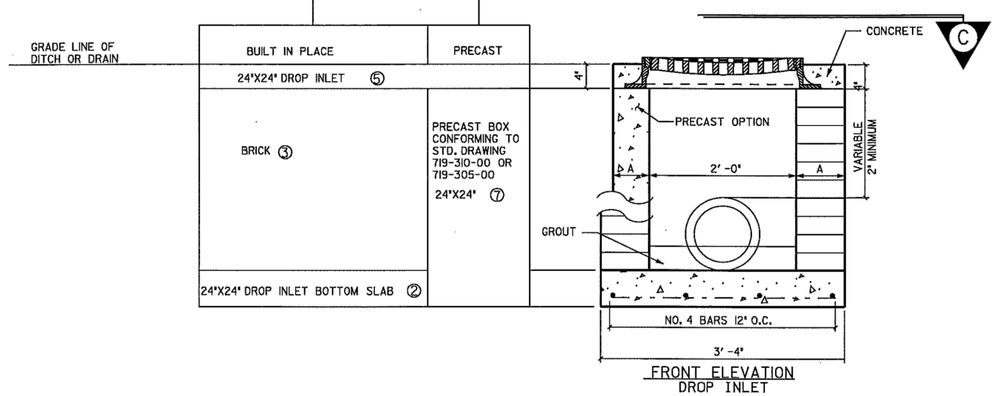
EFFECTIVE LETTING DATE MAY 2008

CONTRACTOR MAY USE PRECAST OR BUILT IN PLACE CONSTRUCTION AS NOTED OR COMBINE OPTIONS AS DESIRED. SEE QUALIFIED PRODUCT LIST 14 FOR MANUFACTURERS OF PRECAST ITEMS.

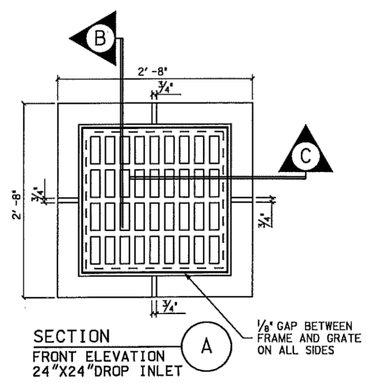
24"X24" DROP INLET

BUILT IN PLACE:
- ② 24"X24" DROP INLET BOTTOM SLAB (PC OR CIP 40"X40"X6")
- AND
- ③ BRICK WALLS (8")
- AND
- ⑤ 24"X24" DROP INLET FRAME AND GRATE

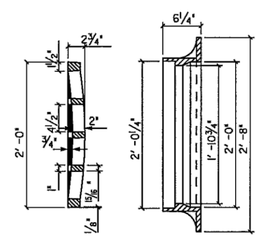
PRECAST:
- ⑦ PRECAST BOX CONFORMING TO STD DRAWING 719-310-00 OR 719-305-00 (2'X2'XH)
- AND
- ⑤ 24"X24" DROP INLET FRAME AND GRATE



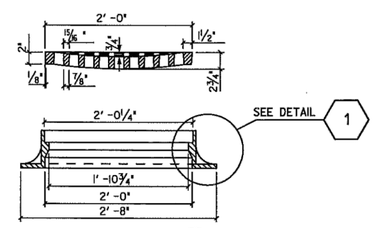
FRONT ELEVATION
DROP INLET



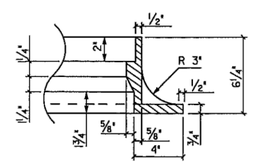
SECTION
FRONT ELEVATION
24"X24"DROP INLET
A



SECTION
SIDE ELEVATION
24"X24" FRAME AND GRATE
B



SECTION
FRONT ELEVATION
24"X24" FRAME AND GRATE
C



DETAIL
FRAME DETAIL
24"X24"
GRATE
1

TABLE 719-105B	
STANDARD PC ITEMS FOR DROP INLET	
(24"X24") DROP INLET BOTTOM SLAB (PC OR CIP 40"X40"X6") SEE ALSO STD. DRAWING 719-310-00 OR 719-305-00	

TABLE 719-105A

24"X24" DROP INLET

DIMENSION	BUILT IN PLACE OPTION	PRECAST
A	8"	6"
B	24"	SEE STD. DRAWING 719-305-00 AND 719-310-00 (2'X2'XH) PRECAST BOX
C	3'-4"	SEE STD. DRAWING 719-305-00 AND 719-310-00 (2'X2'XH) PRECAST BOX

USE SHEETS 719-105-01 THROUGH 719-105-02 FOR THIS ITEM.
THIS DRAWING IS NOT TO SCALE

NOTES:
1. SEE 719-110-01 FOR DROP INLET (24"X 36"). 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.

2. 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.

3. 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 I S MET.

4. MORTAR SHALL BE TYPE S OR M.

5. 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

6. SEE STANDARD DRAWING 719-550-00 FOR STEPS, WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6".

7.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".

8. 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.

9. THE FLOOR OF THE BASIN MUST SLOPE IN THE DIRECTION OF THE OUTLET PIPE AS SHOWN AND THE INSIDE OF OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN.

10. 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:
11. ALL CASTINGS SHALL CONFORM TO AASHTO M 105, CLASS 35B AND THE SPECIFICATIONS OF AASHTO M 306

12. (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.

13. 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".

14. AS SHOWN BY THIS DRAWING, THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.

15. AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING.

16. ALL MANUFACTURING PROCESSES FOR THE FRAME AND GRATE MUST OCCUR IN THE UNITED STATES.

PRECAST NOTES:
17. 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.

18. LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSRY . ALL LIFT HOLES SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.

19. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM THE LIST ON QUALIFIED PRODUCT LIST 14 FOR PRECAST ITEMS ON THIS DRAWING.

20. FOLLOW QUALIFIED PRODUCT POLICY 14 IN ORDER TO BE LISTED ON QUALIFIED PRODUCT LIST 14.

21. 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.

22, JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH A 1/2" GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (QUALIFIED PRODUCT LIST 13.)

PRECAST INSTALLATION NOTES:
23. 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 ELEVATIONS OF ALL PIPES AND REQUIRED BOX TOP ELEVATION.

24. PLACE AND LEVEL PRECAST BOX OR SLAB.

25. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.

26. PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS.

27. 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 MATERIALS OR COSTS ASSOCIATED WITH THE USE OF PRECAST SHALL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCDOT.

28. 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).

29. PRECAST CONCRETE CIRCULAR STRUCTURES ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.

(a) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.

(b) 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.

(c) AS REQUIRED BY THE PROJECT PLANS.

30. THE PAY ITEM SHALL BE:
DROP INLET (24"X24")_____EA

DESCRIPTION	DATE
REVISIONS	

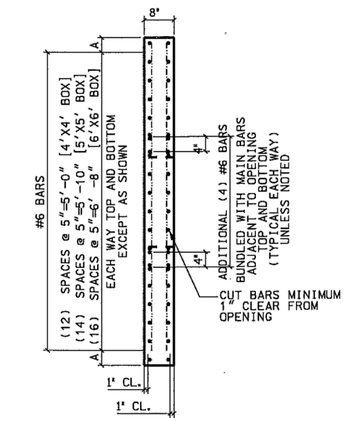
TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

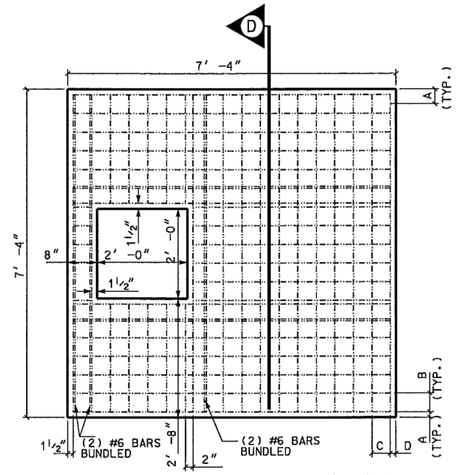
RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

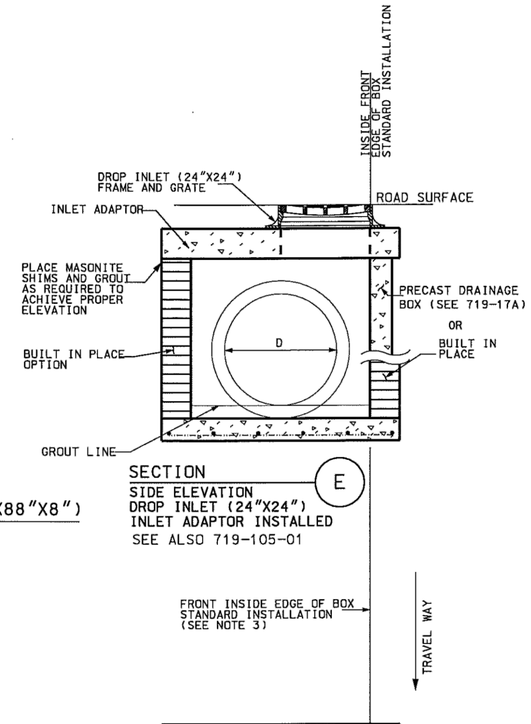
CONSTRUCTION DETAILS



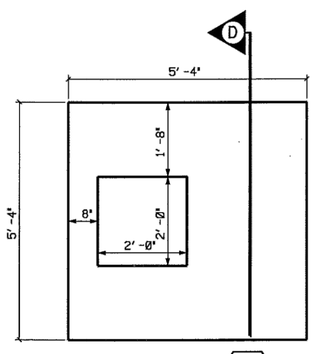


SECTION D
SIDE ELEVATION
DROP INLET (24"X24")
INLET ADAPTOR

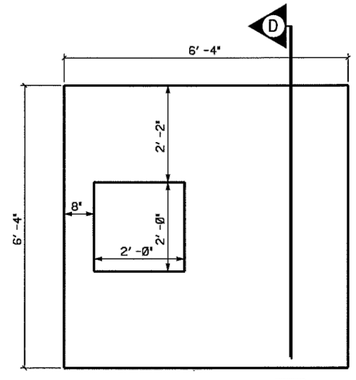
DROP INLET (24"X24") INLET ADAPTER FOR A 6'X6' BOX (88"X88"X8")
PLAN VIEW SHOWING REINFORCING
A=1½"
B=5"
C=5"
D=1½"



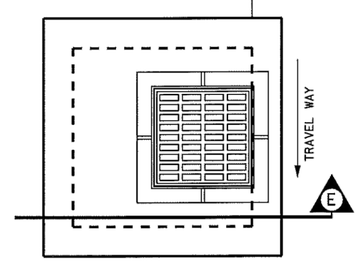
SECTION E
SIDE ELEVATION
DROP INLET (24"X24")
INLET ADAPTOR INSTALLED
SEE ALSO 719-105-01



DETAIL 2
DROP INLET (24"X24")
INLET ADAPTOR FOR
4'X4' BOX (64"X64"X8")
A=1½"
B=3"
C=5"
D=2½"



DETAIL 3
DROP INLET (24"X24")
INLET ADAPTOR FOR
5'X5' BOX (76"X76"X8")
A=1½"
B=4"
C=3"
D=1½"



DETAIL 4
INSTALLED
DROP INLET (24"X24")
INLET ADAPTOR

TABLE 719-105D	
STD. DRAWINGS OF INLET ADAPTORS THAT HAVE SIMILAR STRUCTURAL DESIGN	
CB TYPE 1	719-001-04
CB TYPE 9	719-009-04
DI 24"X24"	719-105-02
DI 24"X36"	719-110-02
MANHOLE	719-505-03
JB SHALLOW	719-330-02

TABLE 719-105C PRECAST ITEMS
DROP INLET (24"X24") INLET ADAPTOR FOR 4X4 BOX (64"X64"X8")
DROP INLET (24"X24") INLET ADAPTOR FOR 5X5 BOX (76"X76"X8")
DROP INLET (24"X24") INLET ADAPTOR FOR 6X6 BOX (88"X88"X8")
SEE ALSO 719-105-01, 719-305-00, & 719-310-00

USE SHEETS 719-105-01 THROUGH 719-105-03 FOR THIS ITEM.
THIS DRAWING IS NOT TO SCALE

NOTES:

1. ALL MATERIALS, DESIGN, MANUFACTURE, TESTING AND PRODUCT PERFORMANCE FOR PRECAST CONCRETE COMPONENTS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH AASHTO M 199 AND SECTION 719 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

2. FOR PRECAST CONSTRUCTION A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED.

3. DROP INLET (24"X24") INLET ADAPTORS ARE DESIGNED TO BE REVERSIBLE AND CAN BE ROTATED UP TO 180 DEGREES TO SATISFY FIELD CONDITIONS. ENGINEER SHALL NOTE BOX POSITION ON FINAL PLANS WHEN DIFFERENT FROM STANDARD.

4. ALL DROP INLET (24"X24") INLET ADAPTOR SLABS ARE TO BE A MINIMUM OF 8 INCHES THICK WITH THE REINFORCING STEEL PLACED RELATIVE TO THE DROP INLET OPENING.

5. REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60.

6. USE OF INLET ADAPTOR SLABS ON EXISTING BOXES MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

7. FOR USE ON NEW BUILT IN PLACE BRICK BOXES THE MAXIMUM OUTSIDE DIMENSIONS OF THE BOX SHALL NOT EXCEED THE OUTSIDE DIMENSIONS OF THE ADAPTOR SLAB.

8. THE ADAPTOR SLAB AS SHOWN IS DESIGNED FOR HS 25 LIVE LOAD.

9.CHAIRS ARE TO BE USED TO POSITION THE STEEL MATS IN THE ADAPTOR SLAB.

10. RISERS MUST BE PLACED BETWEEN BOX AND INLET ADAPTOR AND MAY NOT BE PLACED BETWEEN INLET ADAPTOR AND DROP INLET.

11. SEE DRAWINGS IN SECTION 719-105-01 OF THE STANDARD DRAWINGS FOR DETAILS ON DROP INLETS.

12. SEE SCDOT STANDARD DRAWINGS 719-315-00 AND 719-305-00 FOR APPROPRIATE BOX SIZE BASED ON PIPE DIAMETERS REQUIRED.

13. SUPPLY PRECAST CONCRETE COMPONENTS FOR DRAINAGE ITEMS AT EACH LOCATION FROM A SINGLE SOURCE PRECAST MANUFACTURER THAT HAS BEEN INSPECTED AND APPROVED BY THE MATERIALS AND RESEARCH ENGINEER. SUPPLY ALL INTERCHANGEABLE PRECAST PARTS ON ENTIRE PROJECT FROM A SINGLE SOURCE MANUFACTURER LISTED ON QUALIFIED PRODUCT LISTING 14 UNLESS APPROVED BY RCE. ITEMS FROM MULTIPLE MANUFACTURERS SHOULD NOT BE INSTALLED IN INDIVIDUAL LOCATIONS.

14. 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.

15. 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.

16. THE CONTRACTOR SHALL USE MANUFACTURERS LISTED ON QUALIFIED PRODUCT LISTING 14 FOR PRECAST ITEMS ON THIS DRAWING. THE PRECAST MANUFACTURER SHALL FOLLOW THE POLICY SET FORTH ON THE QUALIFED PRODUCT LISTING 14.

17. 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.

18. JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH A ½" GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (FROM QUALIFIED PRODUCT LIST 13).

19.THE CONTRACT UNIT PRICE FOR DROP INLETS WITH STANDARD BOX SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS, INCLUDING INLET ADAPTOR, INLET SYSTEM, AND DRAINAGE BOX, AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

20. PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.

(a) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.

(b) 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.

(c) AS REQUIRED BY THE PROJECT PLANS.

21. THE PAY ITEM SHALL BE
DROP INLET (24"X24")WITH STANDARD 4'X4'BOX_____EA.
DROP INLET (24"X24")WITH STANDARD 5'X5'BOX_____EA.
DROP INLET (24"X24")WITH STANDARD 6'X6'BOX_____EA.
DROP INLET (24"X24")WITH MODIFIED BOX NO.(_)_____EA.

REFERENCES

NATIONAL DOCUMENTS
AASHTO M199, ASTM A706

SCDOT DOCUMENTS
QUALIFIED PRODUCT LIST 14,
QUALIFIED PRODUCT LIST 13

RELATED DRAWINGS & KEYWORDS
719-105-01 TO 719-105-03,719-315-00, 719-305-00, 719-310-00,719-420-00, 719-001-04, 719-009-04, 719-110-02, 719-505-03,719-330-02

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 8858 EDWIN SYLVESTER EARGLE, II

SIGNATURE

MARCH 3, 2008
DATE

#	DATE	CHK	DESCRIPTION
6			
5			
4			
3			
2			
1			
0	3/2008	DSO	GENERAL REVISION

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

STANDARD DRAWING

DROP INLET
(24"X24")
INLET ADAPTOR

719-105-02

EFFECTIVE LETTING DATE MAY 2008

DESCRIPTION	DATE
REVISIONS	

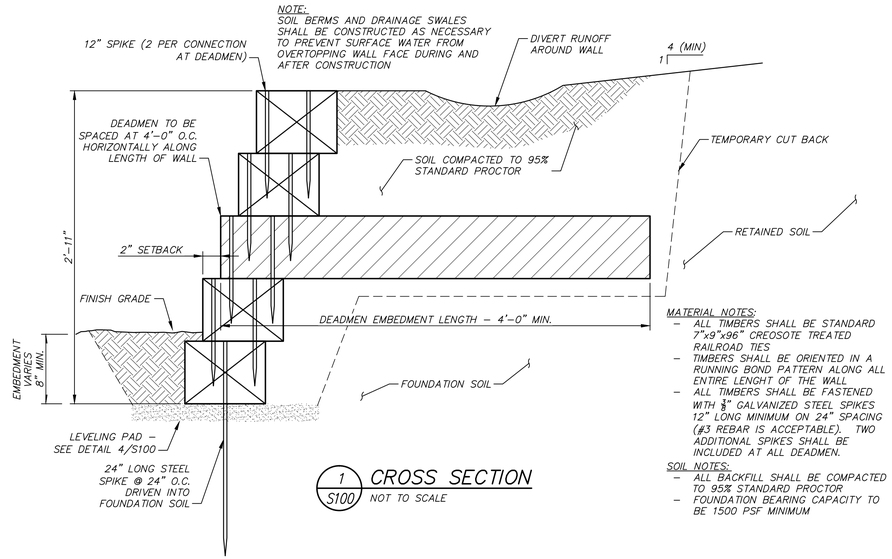
TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

RELEASED FOR	DATE
APPROVALS	
BIDDING	
CONSTRUCTION	
RECORD DWG.	

FOR BIDDING PURPOSES ONLY

US 278B PATHWAY PROJECT
HARGRAY TO
SHELTER COVE TOWN CENTRE

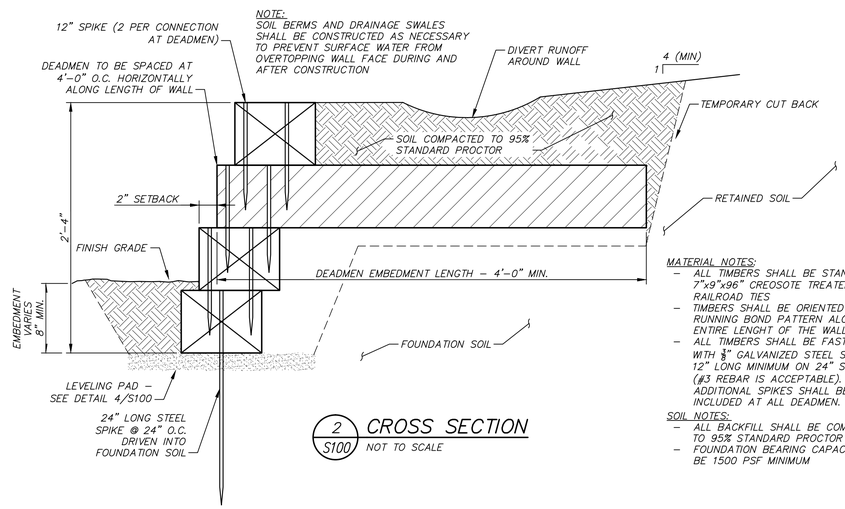
CONSTRUCTION DETAILS



1 S100 CROSS SECTION
NOT TO SCALE

MATERIAL NOTES:
- ALL TIMBERS SHALL BE STANDARD 7"x9"x96" CREOSOTE TREATED RAILROAD TIES
- TIMBERS SHALL BE ORIENTED IN A RUNNING BOND PATTERN ALONG ALL ENTIRE LENGHT OF THE WALL
- ALL TIMBERS SHALL BE FASTENED WITH ⅜" GALVANIZED STEEL SPIKES 12" LONG MINIMUM ON 24" SPACING (#3 REBAR IS ACCEPTABLE). TWO ADDITIONAL SPIKES SHALL BE INCLUDED AT ALL DEADMEN.

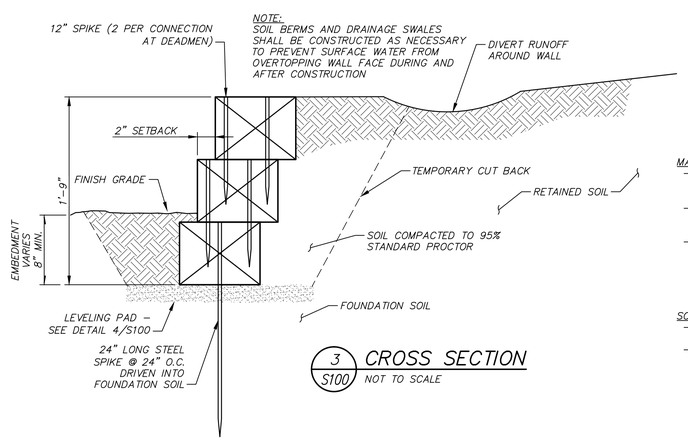
SOIL NOTES:
- ALL BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR
- FOUNDATION BEARING CAPACITY TO BE 1500 PSF MINIMUM



2 S100 CROSS SECTION
NOT TO SCALE

MATERIAL NOTES:
- ALL TIMBERS SHALL BE STANDARD 7"x9"x96" CREOSOTE TREATED RAILROAD TIES
- TIMBERS SHALL BE ORIENTED IN A RUNNING BOND PATTERN ALONG ALL ENTIRE LENGHT OF THE WALL
- ALL TIMBERS SHALL BE FASTENED WITH ⅜" GALVANIZED STEEL SPIKES 12" LONG MINIMUM ON 24" SPACING (#3 REBAR IS ACCEPTABLE). TWO ADDITIONAL SPIKES SHALL BE INCLUDED AT ALL DEADMEN.

SOIL NOTES:
- ALL BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR
- FOUNDATION BEARING CAPACITY TO BE 1500 PSF MINIMUM



3 S100 CROSS SECTION
NOT TO SCALE

MATERIAL NOTES:
- ALL TIMBERS SHALL BE STANDARD 7"x9"x96" CREOSOTE TREATED RAILROAD TIES
- TIMBERS SHALL BE ORIENTED IN A RUNNING BOND PATTERN ALONG ALL ENTIRE LENGHT OF THE WALL
- ALL TIMBERS SHALL BE FASTENED WITH ⅜" GALVANIZED STEEL SPIKES 12" LONG MINIMUM ON 24" SPACING (#3 REBAR IS ACCEPTABLE). TWO ADDITIONAL SPIKES SHALL BE INCLUDED AT ALL DEADMEN.

SOIL NOTES:
- ALL BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR
- FOUNDATION BEARING CAPACITY TO BE 1500 PSF MINIMUM

STRUCTURAL NOTES

GENERAL REQUIREMENTS

1. WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR CONDITIONS.
2. SOIL INSTALLED IN SLOPES BOTH ABOVE AND BELOW THE STRUCTURE SHALL BE COMPACTED TO WITHIN 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D–698).
3. EXCAVATION NEAR THE TIMBER DEADMEN FOR THE PURPOSE OF PLANTING TREES OR INSTALLATION OF UTILITIES SHALL NOT OCCUR WITHOUT APPROVAL BY THE ENGINEER OF RECORD.
4. CONSTRUCTION ACTIVITIES WHICH OCCUR ON THE SITE AFTER COMPLETION OF THE RETAINING WALL, SHOULD BE MONITORED BY THE OWNER'S REPRESENTATIVE TO INSURE THAT THEY DO NOT RESULT IN DAMAGE TO THE DEADMEN OR THE WALL FOUNDATION. HEAVY CONSTRUCTION EQUIPMENT SHOULD NOT BE PERMITTED TO OPERATE WITHIN 10.0 FEET BEHIND A WALL FACE.
5. THE OWNER OR OWNER'S REPRESENTATIVE HAS NOT PROVIDED SPECIFIC SOIL PARAMETERS FOR THE PROPOSED EARTH STRUCTURE AND TESTING OF THE PROPOSED SOILS HAS NOT BEEN PERFORMED PRIOR TO THE DESIGN, IN PREPARATION OF THE DESIGN, ASSUMED SOIL PARAMETERS WERE USED. THEREFORE, CONSTRUCTION VERIFICATION OF THE ASSUMED SOIL PARAMETERS CAN RESULT IN STRUCTURE FAILURE.
6. FILL SHALL BE COMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY AND WITHIN +3/–3 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D–698 (STANDARD PROCTOR DENSITY, WHICHEVER IS GREATER.
7. ALL RAILROAD TIES MUST BE INSPECTED BY THE CONTRACTOR AND FOUND TO BE IN GOOD CONDITION WITH NO CRACKING OR ROT WHICH WOUL COMPROMISE THE STRUCTURAL CAPACITY OF THE UNIT.

SUBGRADE PREPARATION

1. CONTRACTOR SHALL STRIP AND REMOVE ALL VEGETATION, TOPSOIL, ROOTS, AND ORGANIC SOILS FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 5' BEYOND THE EXTENT OF THE STRUCTURE LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS, AND OTHER UNACCEPTABLE MATERIALS, BUT IN NO CASE SHALL IT BE LESS THAN 12".
2. AFTER TOPSOILS, ETC. WITHIN AND TO A POINT 5' OUTSIDE THE WALL CONSTRUCTION AREA HAVE BEEN REMOVED FROM THE SITE, THE UPPER 24" OF EXPOSED SOILS SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D–698).
3. COMPACTION TESTING SHALL BE PERFORMED UNDER THE OBSERVATION OF AN APPROVED TESTING LABORATORY SUPERVISED BY A GEOTECHNICAL ENGINEER. UNDERCUT, BACKFILL, AND COMPACT AREAS WHICH PUMP, DEFLECT, OR RUT EXCESSIVELY OR WHICH DO NOT STABILIZE AFTER SUCCESSIVE PASSES OF COMPACTION EQUIPMENT.
4. AFTER COMPLETION OF DENSIFICATION OF EXISTING SOILS, PLACE STRUCTURAL FILL FOR BUILDING AND PAVEMENT AREAS IN THIN (8" TO 10") LIFTS COMPACT TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D–689). MATERIAL USED AS STRUCTURAL FILL SHALL BE NON–PLASTIC GRANULAR MATERIAL CONTAINING LESS THAN 15% FINES PASSING THROUGH THE NO. 200 SIEVE AND FREE OF ORGANICS, BOULDERS, OR OTHER DELETERIOUS MATERIALS.

DRAINAGE

1. BACKFILL SHALL BE GRADED AWAY FROM THE WALL FACE AND COMPACTED TO 95% STANDARD PROCTOR AT THE END OF EACH WORK DAY TO PREVENT PONDING OF WATER ON THE SURFACE OF SOIL MASS.
2. PERMANENT DRAINAGE AND SITE GRADING SHALL BE PERFORMED TO PREVENT RUNOFF FROM BEING DIRECTED OVER THE WALL FACE OR ALLOWED TO POND ABOVE THE SOIL MASS.
3. SURFACE WATER FLOW EITHER TEMPORARY OR PERMANENT, SHALL NOT BE ALLOWED TO RUN ALONG TOE OF EARTH STRUCTURE AT ANY TIME. CONCENTRATED WATER FLOW ALONG THE WALL TOE CAN UNDERMINE AND DAMAGE THE EARTH STRUCTURE FOUNDATION.

DESIGN PARAMETERS

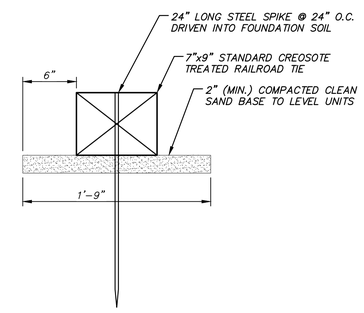
1. DESIGN OF THE REINFORCED SOIL STRUCTURES IS BASED ON THE FOLLOWING PARAMETERS:

RETAINED FILL:	ϕ = 30°	C' = 0 PSF	γ = 120 PCF
FOUNDATION:	ϕ = 30°	C' = 0 PSF	γ = 120 PCF

EXTERNAL STABILITY:

MINIMUM F.S. AGAINST BASE SLIDING = 1.5
MINIMUM F.S. AGAINST OVERTURNING = 2.0

UNIFORM SURCHARGE = 0 PSF
HYDROSTATIC LOADING = NONE
SEISMIC LOADING = NONE
REQUIRED BEARING CAPACITY = 1500 PSF



4 S100 LEVELING PAD CROSS–SECTION
NOT TO SCALE

PREPARED BY
Cranston Engineering Group, P.C.
ENGINEERS - PLANNERS - SURVEYORS
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POST OFFICE BOX 2546, AUGUSTA, GEORGIA 30903
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FACSIMILE 706-722-9270
mail@cranstonengineering.com

SOUTH CAROLINA
Cranston Engineering Group, P.C.
NO. C00575
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 17000
JOHN DAN'L MOULTON
Dan'l Moulton
2014-9-8

REV.	DATE	DESCRIPTION

SHELTER COVE
HILTON HEAD ISLAND, SC

RETAINING WALL DETAILS

DRAWN BY:	DAI
CHECKED BY:	JRE
APPROVED BY:	JDM
DATE:	09–08–2014
SCALE:	AS SHOWN
JOB No.	2014–0286
DRAWING No.	S100