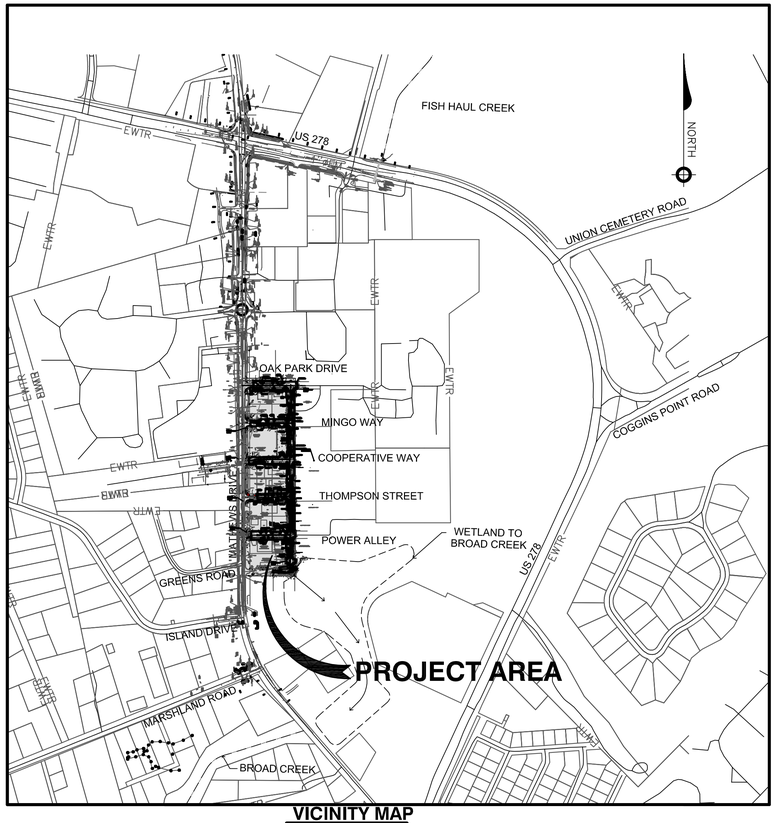
MATHEWS DRIVE SIDE ROADS

FOR

TOWN OF HILTON HEAD ISLAND, SOUTH CAROLINA



VICINITY MAP
1"=500'

FEBRUARY, 2013

SOUTH CAROLINA REGISTERED No. 10900 PROFESSIONAL ENGINEER BILLY RAY NICHOLSON

SOUTH CAROLINA HUSSEY, GAY, BELL & DEYOUNG, INC. No. C00539 CERTIFICATE OF AUTHORIZATION

HGBD
A Bell Company

HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS

SAVANNAH, GA
329 COMMERCIAL DRIVE
SAVANNAH, GEORGIA 31416
VOICE: (912) 354-4626
FAX: (912) 354-6754

GAINESVILLE, GA
625 GREEN STREET N.E.
GAINESVILLE, GEORGIA 30501
VOICE: (770) 535-1133
FAX: (770) 535-1134

COLUMBIA, SC
1219 ASSEMBLY STREET
COLUMBIA, SC 29202
VOICE: (803) 799-0444
FAX: (803) 799-1499

MOUNT PLEASANT, SC
749 JOHNNIE DODDS BLVD. SUITE A
MOUNT PLEASANT, SC 29464
VOICE: (803) 849-7500
FAX: (803) 849-7502

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SCHEDULE OF DRAWINGS

01	COVER SHEET, VICINITY MAP, SCHEDULE OF DRAWINGS
02	GENERAL NOTES AND LEGEND
03 - 05	CLEARING AND DEMOLITION PLANS
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09 - 11	PAVING, GRADING AND DRAINAGE PLANS
12-14	SOIL EROSION AND SEDIMENT CONTROL PLANS
15-16	ROADWAY PROFILES
17	STORM DRAINAGE PROFILES
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E:\Hilton Head\Mathews\CON_DRAW\SHEET 2_GEN NOTES.dwg Printed: Feb 21, 2013 - 1:54pm Printed By: bstanton

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL, NAVD 1988.SEE BENCHMARK LOCATION ON PLAN.

2. SURVEY CONTROL AND TOPOGRAPHIC INFORMATION PROVIDED BY SEA ISLAND SURVEYING.

3. ALL COORDINATES SHOWN ON THE LAYOUT PLANS ARE SOUTH CAROLINA STATE PLANE.

4. CONTRACTOR SHALL BE RESPONSIBLE ESTABLISHING PROJECT CENTERLINE AND LAYING OUT WORK BASED ON PRIMARY CONTROL POINTS PROVIDED BY THE OWNER.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING UTILITY FACILITIES WITH THE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION AND FOR AVOIDING CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

6. ALL STORM DRAIN PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE. JOINTS SHALL BE MADE WITH O– RING GASKETS. EACH JOINT SHALL BE WRAPPED WITH FILTER FABRIC.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASURES REQUIRED TO CONTROL TRAFFIC IN THE AREA. THIS WILL INCLUDE, BUT IS NOT LIMITED TO PROVIDING SIGNS, FLAGMEN, BARRIERS, AND OTHER TRAFFIC CONTROL DEVICES. LANES OR ROADWAY CLOSURES SHALL BE MADE ONLY WITH THE APPROVAL OF AND IN COORDINATION WITH THE TOWN OF HILTON HEAD ISLAND AND / OR SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING SIGNAGE, FOR REVIEW AND APPROVAL BY THE TOWN PRIOR TO BEGINNING WORK.

8. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ANY CONFLICTS WITH EXISTING UTILITIES NOT INDICATED ON THE PLANS PRIOR TO PERFORMING WORK.

9. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHICH ARE NOT BENEATH PAVEMENT SHALL BE REGRADED AND GRASSED BY THE CONTRACTOR IF IMMEDIATE CONDITIONS DO NOT PERMIT GRASSING, STRAW MULCH STABILIZATION SHALL BE USED TO PREVENT EROSION UNTIL GRASSING CAN BE ACCOMPLISHED.

10. WHERE PAVEMENT / CURB IS TO BE REMOVED AND REPLACED, SAW CUT ON A LINE DESIGNATED BY THE OWNER'S REPRESENTATIVE TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW IN THE DRAINAGE SYSTEM DURING THE CONSTRUCTION PERIOD.

12. ALL EXISTING DRIVES AND CROSSROADS WILL, TO THE EXTENT POSSIBLE, BE PROVIDED VEHICULAR INGRESS/EGRESS ROUTES AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. WHEN A PORTION OF A STREET IS, BY NECESSITY, CLOSED TO VEHICULAR TRAFFIC, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PEDESTRIAN ACCESS TO PROPERTIES.

13. ALL ITEMS WHICH ARE REMOVED AND ARE NOT SALVAGEABLE SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF IN AN APPROPRIATE MANNER BY THE CONTRACTOR AT HIS EXPENSE.

14. ALL WORK WILL BE PERFORMED IN A MANNER AS TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE POSSIBLE. ALL TRAFFIC CONTROL DEVICES, INCLUDING SIGNS, STRIPING AND FLAGGERS SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE EROSION AND SEDIMENTATION CONTROL DEVICES ON THE JOB AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM OR LEAVING THE WORK AREA.

16. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PERTINENT SECTIONS OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, WITH THE PROVISION THAT PAYMENT ITEMS DO NOT APPLY.

17. ALL PAVEMENT MARKING SHALL BE TRAFFIC RATED PAINT OR THERMOPLASTIC.

18. ONLY TREES SHOWN TO BE REMOVED SHALL BE CLEARED UNLESS OTHERWISE DIRECTED BY THE OWNER.

19. 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.

20. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.

21.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.

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

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE BORROW MATERIAL NECESSARY FOR CONSTRUCTION DETAILED HEREIN.

24. 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.

25. 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.

26. 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. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWINGS. 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.

27. 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.

SOIL EROSION AND SEDIMENTATION CONTROL 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. 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.

3. 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 COMPLETION OF THE CONSTRUCTION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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," 2007 EDITION.

11. 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.

12. 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

SEEDS SHALL BE PROPORTIONED ACCORDING TO RESPECTIVE APPLICATION RATES. RESEEDING CRIMSON CLOVER AND ANNUAL RYEGRASS SHALL BE ELIMINATED FROM THE MIX IF SEEDING OCCURS BETWEEN MARCH 1 AND AUGUST 15.

SEED SHALL BE APPLIED AS A HYDROMULCH OF FERTILIZER, MULCH AND GRASS SEED. IF A HYDROMULCH TECHNIQUE IS NOT USED, AFTER SOWING THE FERTILIZER AND SEED, THE ENTIRE AREA SHALL BE LIGHTLY RAKED OR DRAGGED TO COVER ALL SEED TO A MAXIMUM DEPTH OF APPROXIMATELY ONE–QUARTER INCH.

APPLY WATER AND MAINTAIN 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".

FERTILIZING: APPLY 15–0–15 FERTILIZER AT THE RATE OF 10 POUNDS PER 1,000 SQUARE FEET RAKING LIGHTLY INTO THE SOIL.

MULCHING: WHEAT STRAW IS TO BE SPREAD LIGHTLY OVER SEEDED AREA AT THE RATE OF 1 BALE PER 500 SQUARE FEET.

WATERING: WATER IMMEDIATELY AFTER MULCHING.

13. 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.

14. ALL SILT FENCE MUST MEET SC DOT STANDARD SPECIFICATIONS (SECTION 815.12; SILT FENCE).

15. 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.

16. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE NPDES GENERAL PERMIT SCR100000. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PERMIT SCR100000.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING WRITTEN WEEKLY INSPECTION REPORTS, AS MAY BE REQUIRED BY SCDHEC/OCRM NPDES GENERAL PERMIT SCR100000.

18. 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.

19. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

20. 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;

21. 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.)

22. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

– WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY 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.

23. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTION 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.

24. 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.

25. 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 DISTRURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON–SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

CONSTRUCTION SEQUENCE AND STAGING NOTES

UPON SELECTION AND AWARD OF CONTRACT, THE SELECTED CONTRACTOR WILL COMPLETE THE WORK OF THE PROJECT IN GENERAL ACCORDANCE WITH THE PROCESS LISTED BELOW. MINOR ADJUSTMENTS MAYBE MADE, BUT SIGNIFICANT MODIFICATIONS PROPOSED MUST BE SUBMITTED TO AND APPROVED BY THE TOWN PRIOR TO IMPLEMENTATION.

1. VERIFY WITH TOWN OF HILTON HEAD ISLAND THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND NOTIFICATIONS GIVEN. OBTAIN COPIES OF SAME FOR SITE RECORDS.
2.ATTEND PRE–CONSTRUCTION MEETING WITH TOWN PERSONNEL, IMPACTED UTILITIES, SCDOT AND OTHER AFFECTED PARTIES.
3. INSTALL TREE PROTECTION FENCE AS SHOWN ON THE PLANS OR REQUIRED BY THE TOWN.
4. INSTALL PERIMETER EROSION CONTROL ITEMS AS SHOWN ON THE PLANS OR REQUIRED BY THE TOWN. PERIMETER ITEMS ARE THOSE STRUCTURAL ELEMENTS SUCH AS SILT FENCE AND CONSTRUCTION EXITS WHICH ARE OUTSIDE THE AREA OF DISTURBANCE. THESE DEVICES WILL BE MAINTAINED THROUGH THE CONSTRUCTION PERIOD AND REMOVED WHEN WORK IS COMPLETE AND ESTABLISHED.
5. BEGIN CLEARING AND DEMOLITION ACTIVITIES. ACCESS THROUGH THE WORK SITE AND TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS CLOSURE IS AUTHORIZED BY THE TOWN. TO FACILITATE THIS, IT IS RECOMMENDED THAT THE CONTRACTOR WORK ON ONLY ONE OR TWO STREETS AT A TIME, COMPLETING OPERATIONS ON THESE BEFORE TRANSITIONING ONWARD. IF THIS IS DONE, THEN THE SEQUENCE WOULD REPEAT FOR EACH GROUPING.
6. CONSTRUCT STORMWATER MANAGEMENT AREA AND INSTALL RETROFIT.
7. INSTALL STORM DRAINAGE PIPES AND STRUCTURES. AS STRUCTURES ARE COMPLETED, INSTALL INLET SEDIMENT FILTERS. MAINTAIN THROUGHOUT CONSTRUCTION AND REMOVE WHEN DIRECTED BY TOWN.
8. COMPLETE EARTHWORK TO SUBGRADE ELEVATION. REMOVE UNSUITABLE MATERIAL AS REQUIRED. COMPLETE PROOF ROLL AND REQUIRED TESTING.
9. INSTALL CURBS AND CONCRETE GUTTER STRIP.
10. INSTALL PAVEMENT IN ACCORDANCE WITH SECTIONS SHOWN IN PLAN. THIS INCLUDES CONCRETE PAVEMENT, PAVERS, AND PARKING SPACES.
11. INSTALL BICYCLE RACKS AND CONCRETE WHEEL STOPS.
12. INSTALL PAVEMENT MARKINGS AND SIGNING.
13. COMPLETE PERMANENT GRASSING AND LANDSCAPING. MAINTAIN GRASS AND PLANTS UNTIL ACCEPTANCE BY THE TOWN. REMOVE TEMPORARY EROSION CONTROL FEATURES AND TRAFFIC CONTROL ITEMS AFTER ACCEPTANCE OF PROJECT BY TOWN.

LEGEND:

	EXISTING	PROPOSED
STORM DRAINAGE INLET		
CATCH BASIN		
PIPE		
SANITARY SEWER LINE AND SANITARY SEWER MANHOLE		
SPOT ELEVATION	+18.44	
TOP OF PAVEMENT SHOTS		TP 12.95
EDGE OF PAVEMENT		
CURB AND GUTTER		
DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING		Ds3
TEMPORARY SEDIMENT BARRIER – SILT FENCE, TYPE "A"		Sd1–A
OUTLET PROTECTION		St
CONSTRUCTION EXIT		Co

LEGEND:

	EXISTING	PROPOSED
EASEMENT		
RIGHT OF WAY		
PAVEMENT		
PERVIOUS PAVEMENT		
POWER POLE		
TELECOMMUNICATION	T	
ELECTRIC	E	
GAS	GAS	
OVERHEAD POWER LINE	OHP	
WATER VALVE		
DISTURBED AREA STABILIZATION WITH MULCH		Ds1
DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING		Ds2

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HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS
POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
329 COMMERCIAL DRIVE (31406)
TEL (912) 354-4626
FAX (912) 354-6754
www.hgbd.com

HGBD A Bell Company

REVISIONS:

DESIGNED	DRAWN	CHECKED
BRN	RSP	BRN

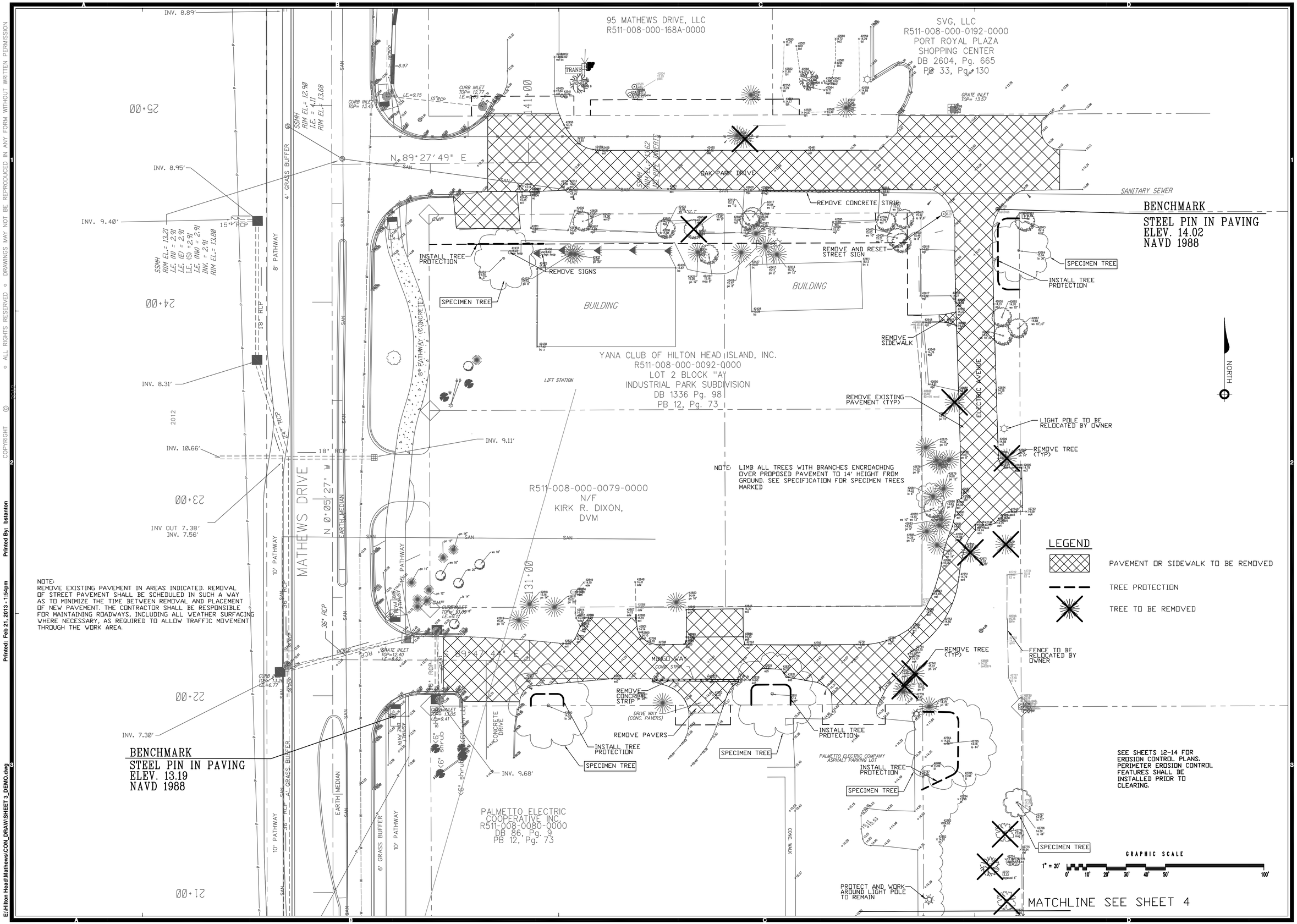
DATE: FEBRUARY, 2013

JOB NO.

SCALE: NONE

MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
GENERAL NOTES SHEET

DRAWING NUMBER
2
OF xx



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31416-1247
320 COMMERCIAL DRIVE (31406)
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FAX (912) 354-8754
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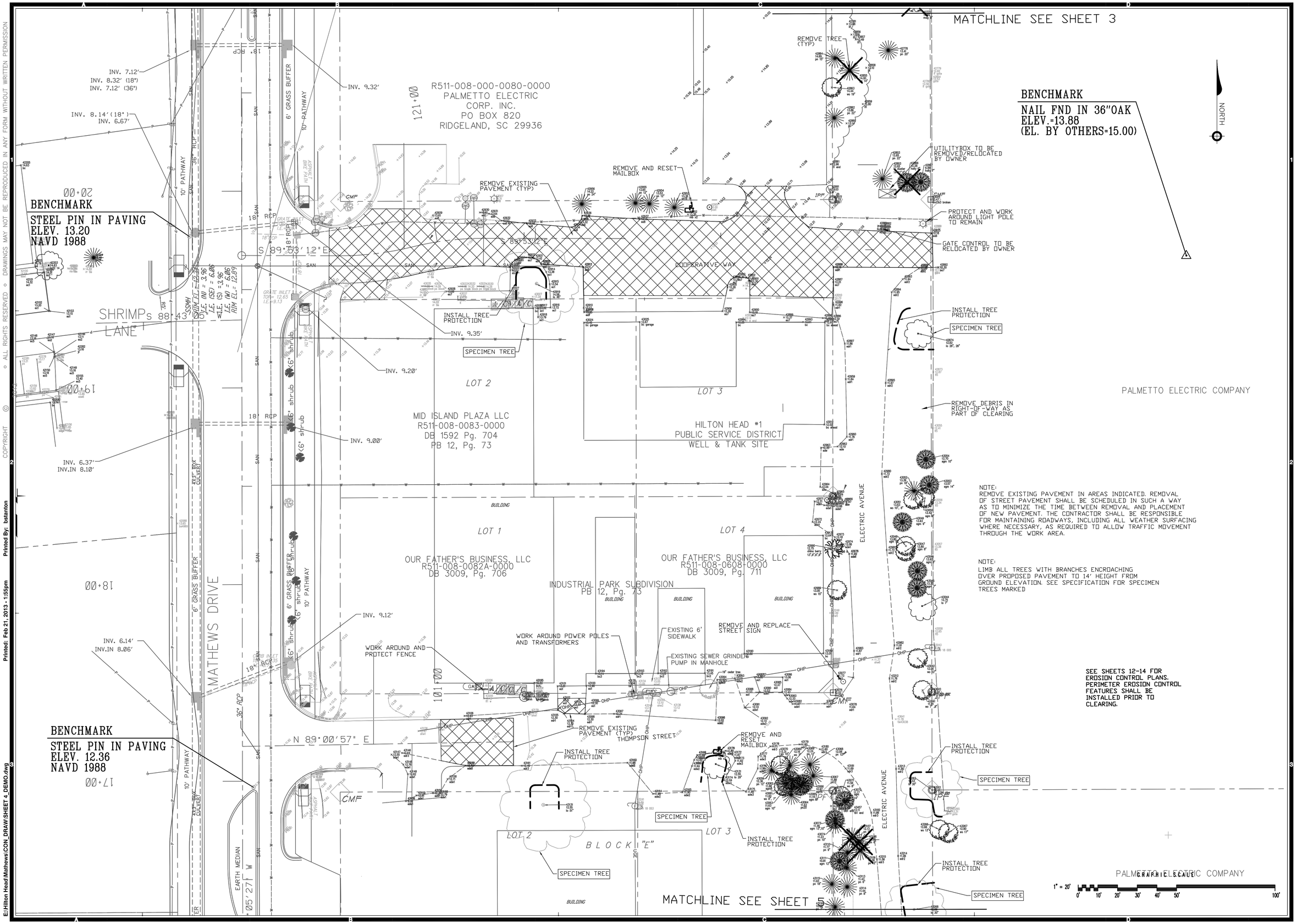
DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
CLEARING AND DEMOLITION PLAN

DRAWING NUMBER
3
OF xx



NOTE:
REMOVE EXISTING PAVEMENT IN AREAS INDICATED. REMOVAL OF STREET PAVEMENT SHALL BE SCHEDULED IN SUCH A WAY AS TO MINIMIZE THE TIME BETWEEN REMOVAL AND PLACEMENT OF NEW PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ROADWAYS, INCLUDING ALL WEATHER SURFACING WHERE NECESSARY, AS REQUIRED TO ALLOW TRAFFIC MOVEMENT THROUGH THE WORK AREA.

NOTE:
LIMB ALL TREES WITH BRANCHES ENCROACHING OVER PROPOSED PAVEMENT TO 14' HEIGHT FROM GROUND ELEVATION. SEE SPECIFICATION FOR SPECIMEN TREES MARKED

SEE SHEETS 12-14 FOR EROSION CONTROL PLANS. PERIMETER EROSION CONTROL FEATURES SHALL BE INSTALLED PRIOR TO CLEARING.

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SOUTH CAROLINA BURNS, GAY, BELL & DEYOUNG, INC. No. C00535

HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS
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FAX (912) 354-8754
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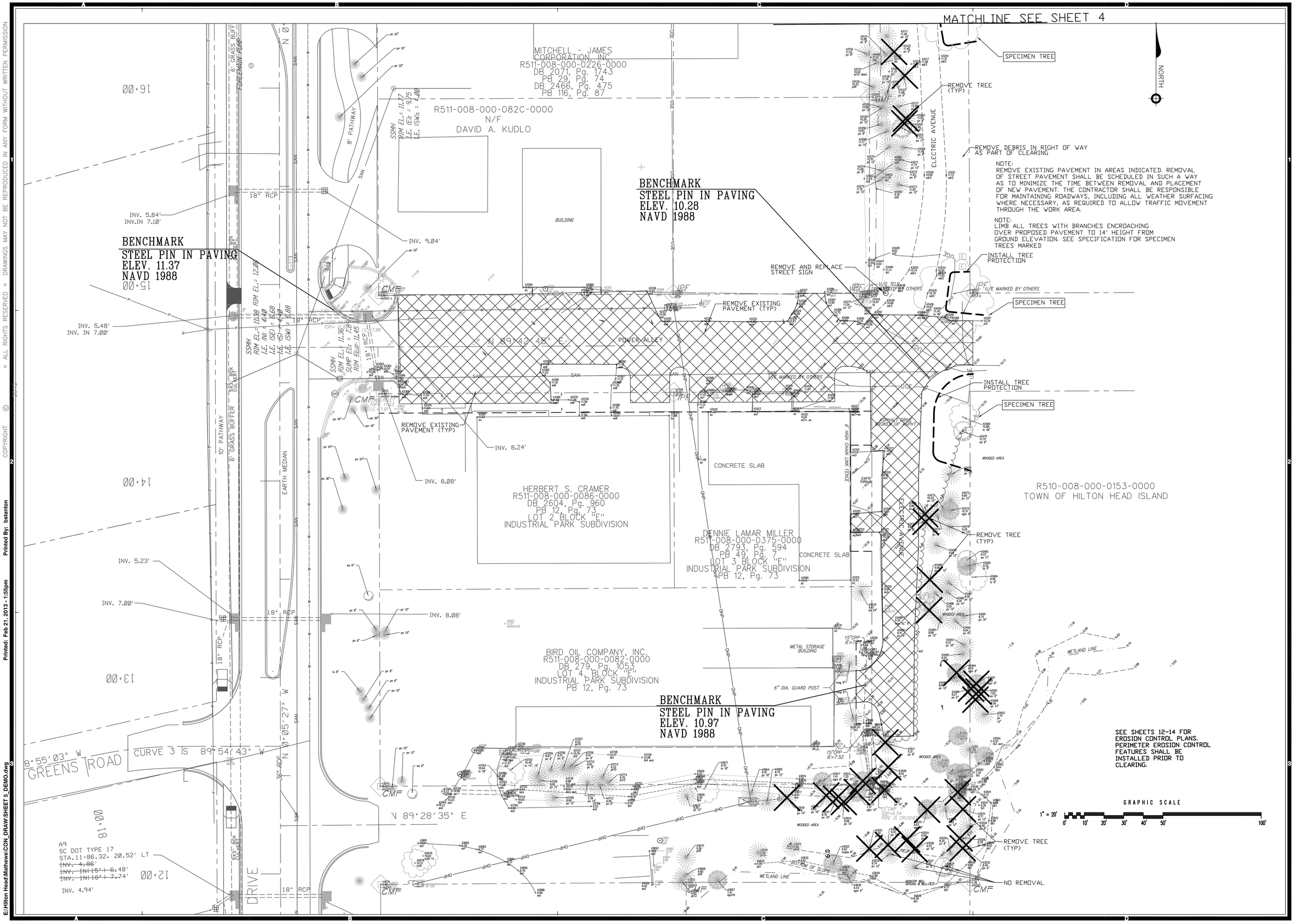
JOB NO.		
SCALE: 1"= 20'		

MATHEWS DRIVE SIDE ROADS FOR TOWN OF HILTON HEAD

CLEARING AND DEMOLITION PLAN

DRAWING NUMBER
4
OF xx



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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 10950 BILLY RAY NISTON

NORTH CAROLINA HUSSEY, GAY, BELL & DEYOUNG, INC. No. C-0559 CERTIFICATE OF AUTHORIZATION

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BRN	RSP	BRN

DATE: FEBRUARY, 2013

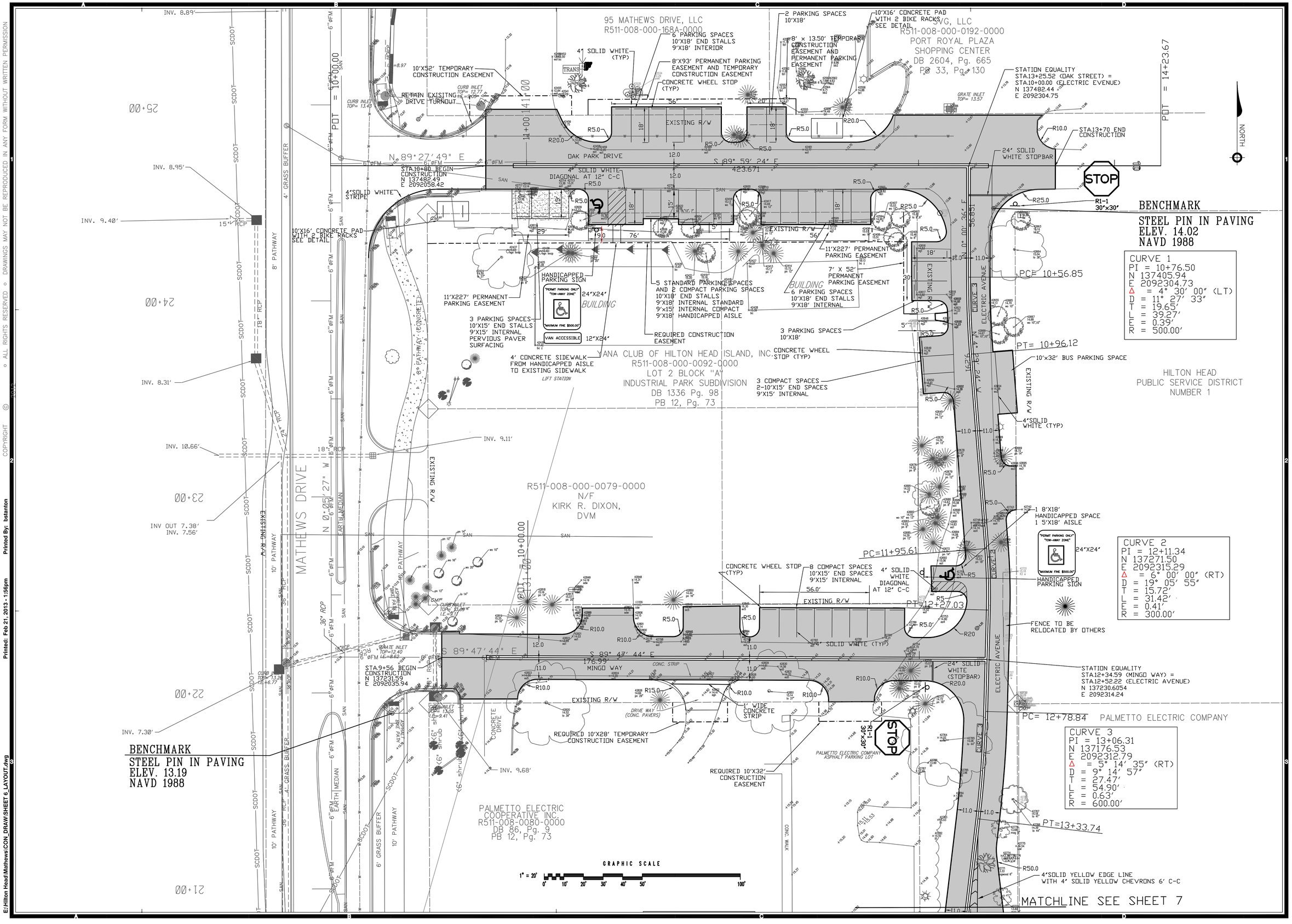
JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
CLEARING AND DEMOLITION PLAN

DRAWING NUMBER

5 OF xx



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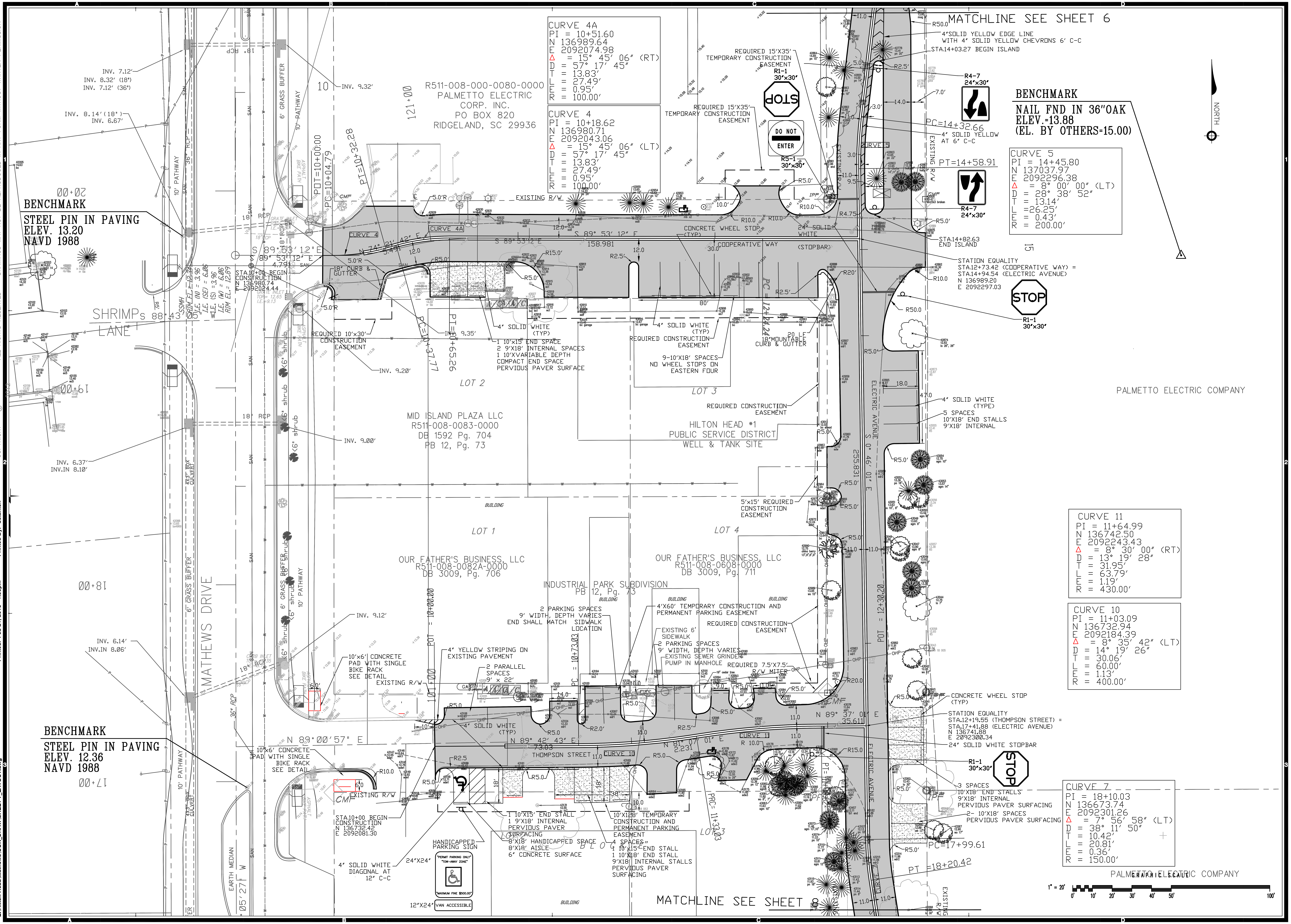
SCALE: 1"= 20'		

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
GENERAL LAYOUT PLAN

DRAWING NUMBER
6
OF xx



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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 10900 BILLY RAY NICHOLSON

SOUTH CAROLINA HUSSEY, GAY, BELL & DeYOUNG INC. No. C00539 CERTIFICATE OF AUTHORIZATION

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POST OFFICE BOX 14247
SAVANNAH, GEORGIA
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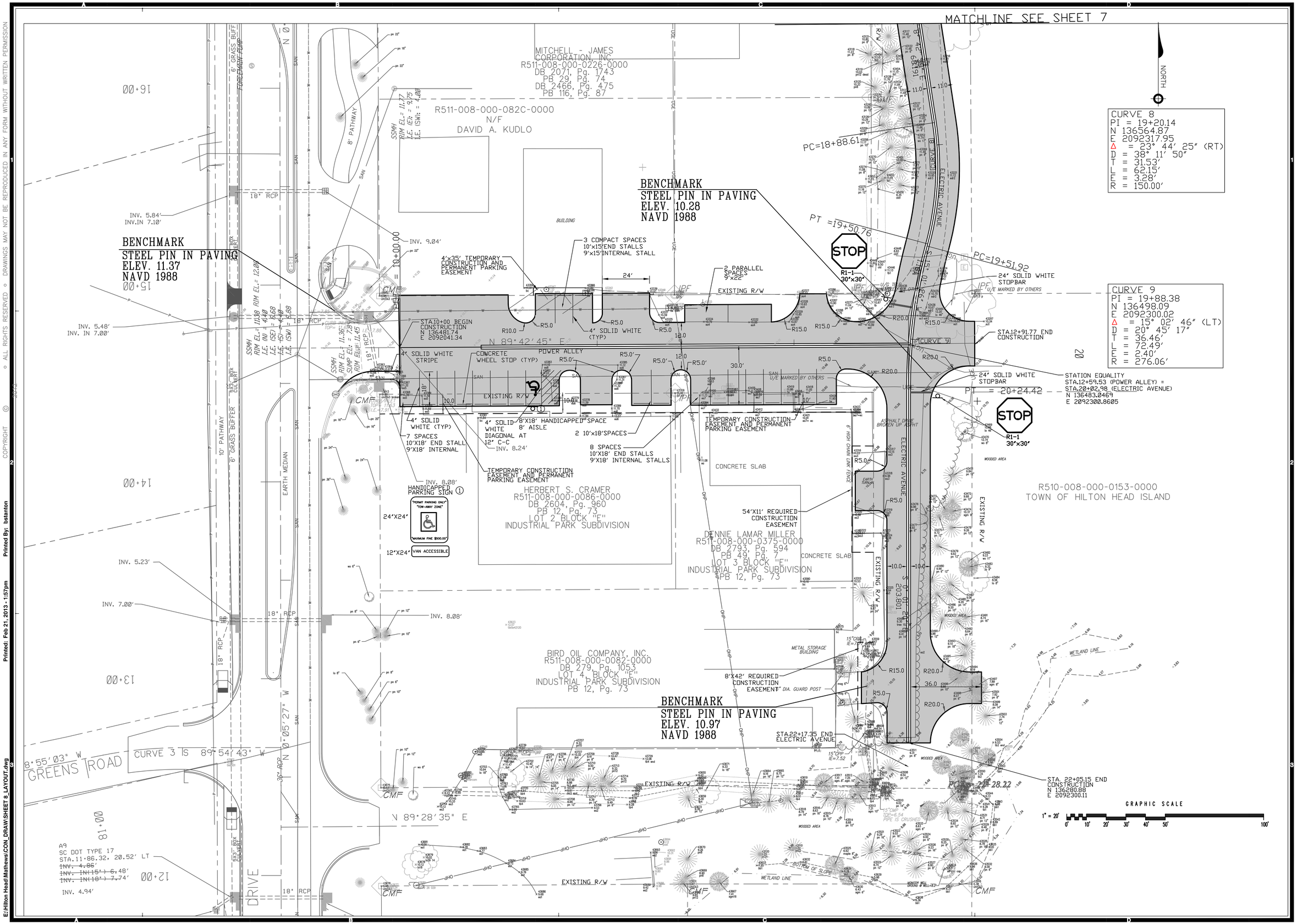
DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
GENERAL LAYOUT PLAN

DRAWING NUMBER
7
OF xx



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DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1″= 20′

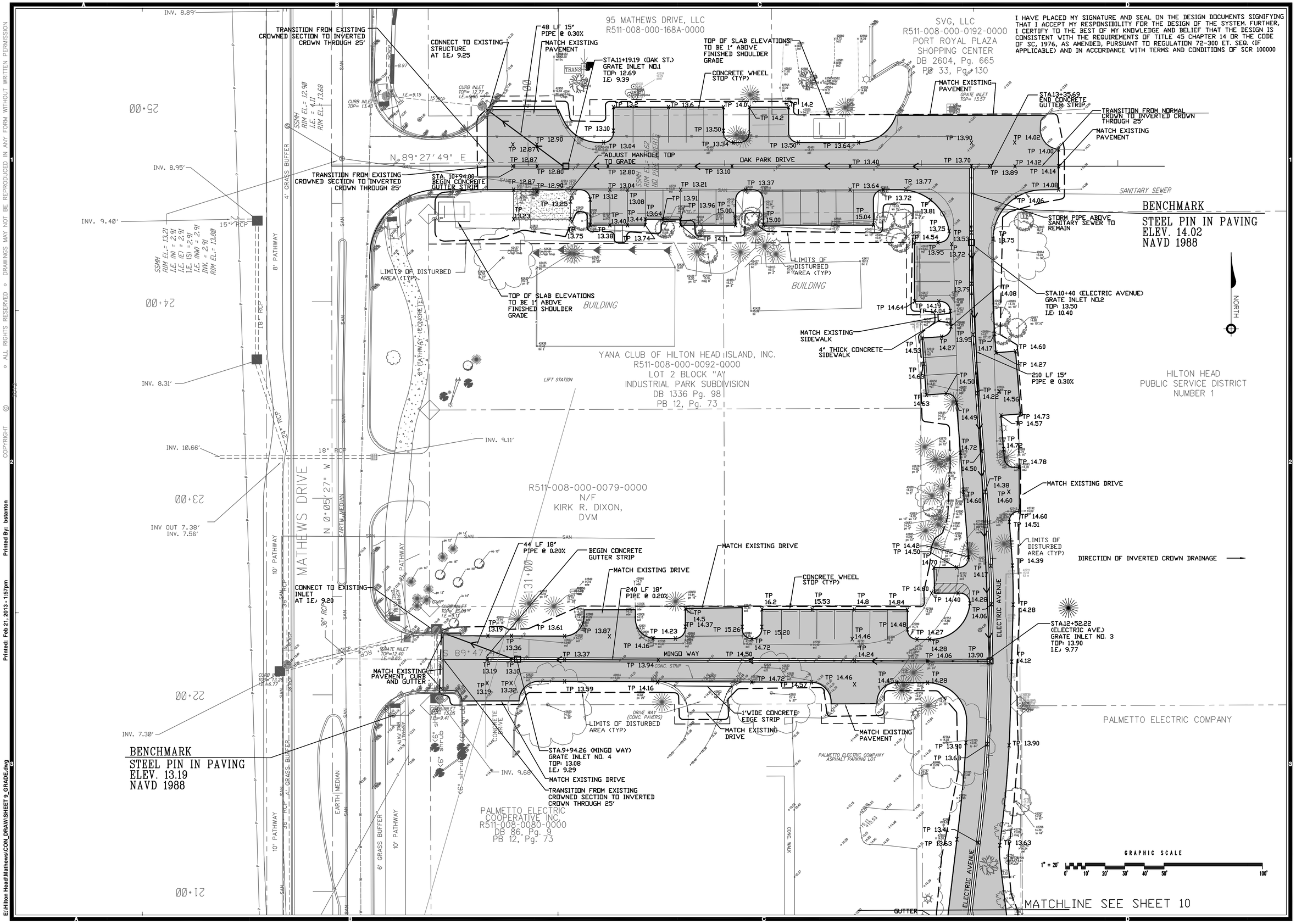
MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
GENERAL LAYOUT PLAN

DRAWING NUMBER
8
OF xx

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SIGNIFYING THAT I ACCEPT MY RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 45 CHAPTER 14 OR THE CODE OF SC, 1976, AS AMENDED, PURSUANT TO REGULATION 72-300 ET. SEQ. (IF APPLICABLE) AND IN ACCORDANCE WITH TERMS AND CONDITIONS OF SCR 100000

SOUTH CAROLINA REGISTERED No. 10900 PROFESSIONAL ENGINEER BILLY RAY NEW

SOUTH CAROLINA HUSSEY, GAY, BELL & DEYOUNG INC. No. C00539 CERTIFICATE OF AUTHORIZATION



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DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
PAVING, GRADING, AND DRAINAGE PLAN

DRAWING NUMBER
9
OF xx

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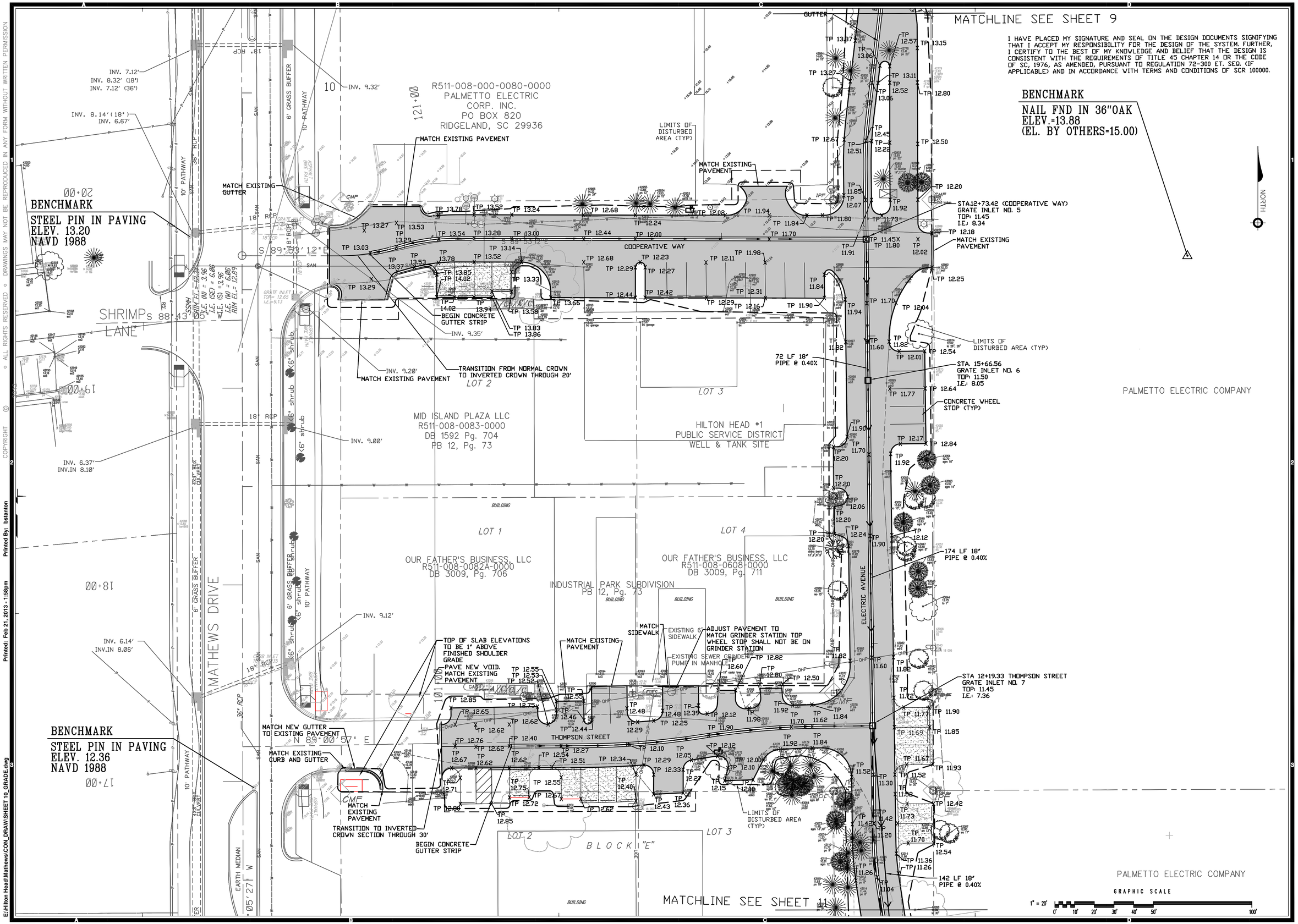

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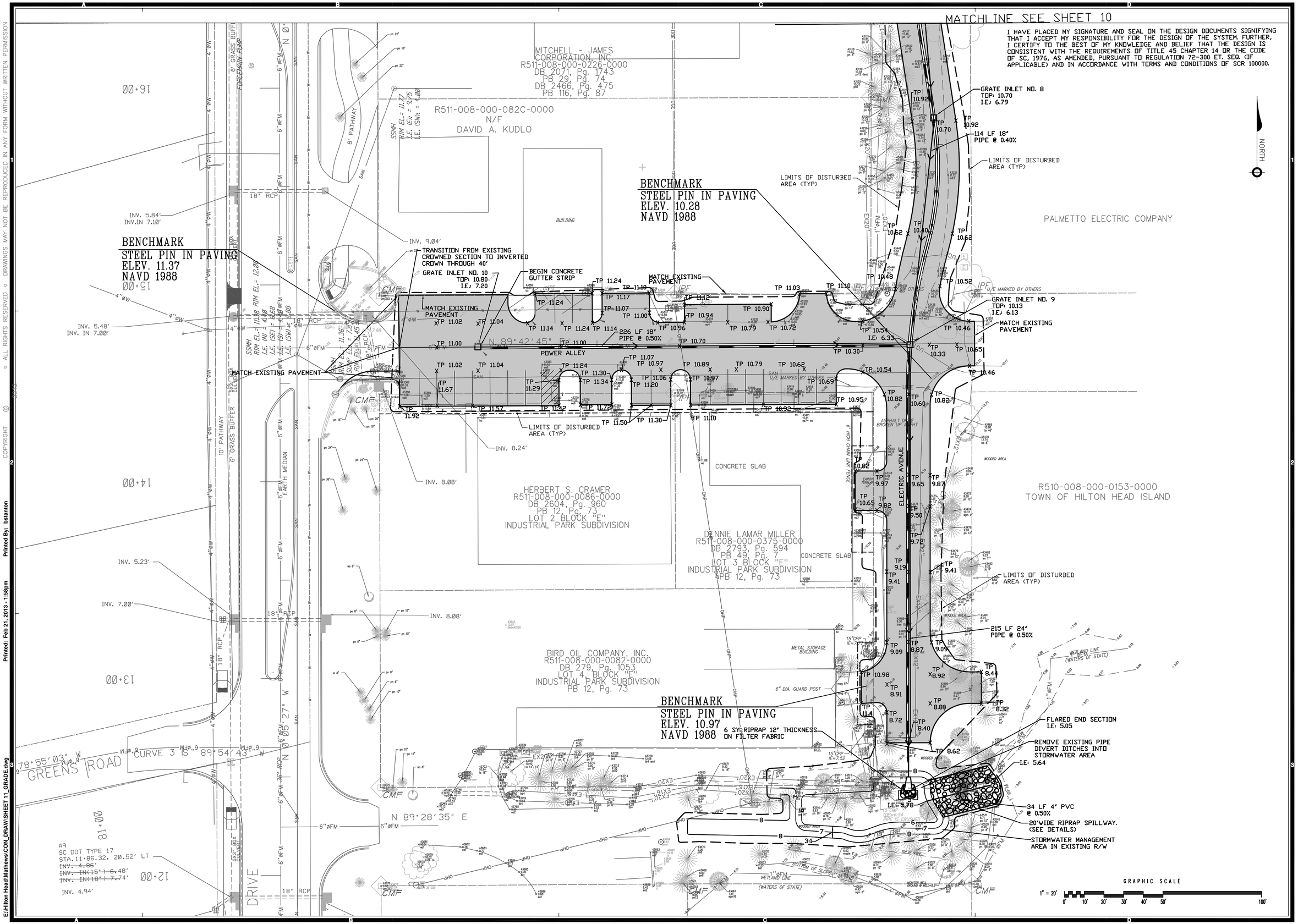
DATE: FEBRUARY, 2013		
JOB NO.		
SCALE: 1"= 20'		

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
PAVING, GRADING, AND DRAINAGE PLAN

DRAWING NUMBER
10
OF xx



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SOUTH CAROLINA REGISTERED No. 10990 PROFESSIONAL Expires 6/30/13 BILLY RAY NIXON

HUSSEY, GAY, BELL & DEYOUNG INC. No. C00539 CERTIFICATE OF AUTHORIZATION

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CONSULTING ENGINEERS
POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
320 COMMERCIAL DRIVE (31406)
TEL (912) 354-4626
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BRN	RSP	BRN

DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1" = 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
PAVING, GRADING, AND DRAINAGE PLAN

DRAWING NUMBER
11
OF xx

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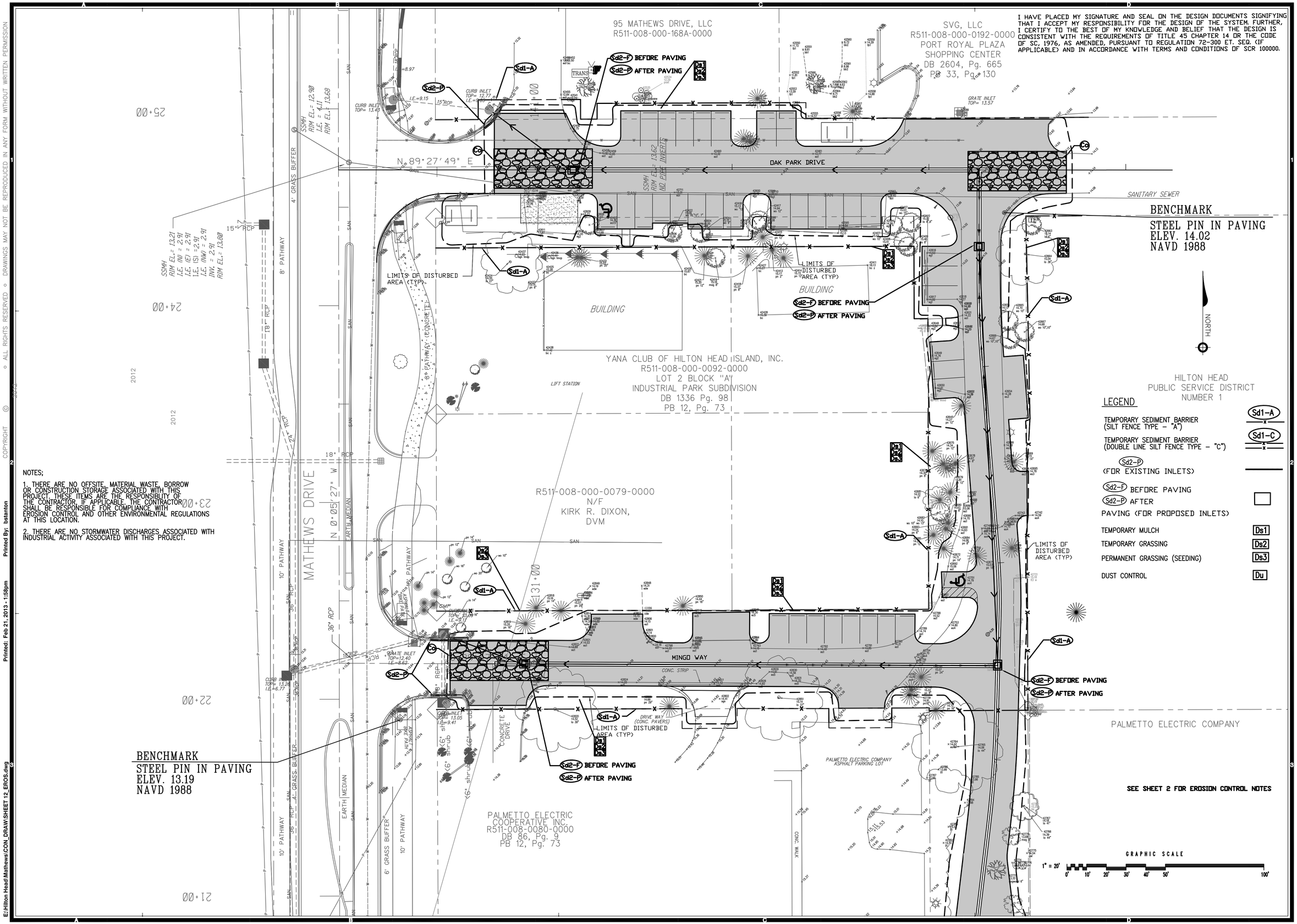

NOTES;

1. THERE ARE NO OFFSITE MATERIAL WASTE, BORROW OR CONSTRUCTION STORAGE ASSOCIATED WITH THIS PROJECT. THESE ITEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR, IF APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH EROSION CONTROL AND OTHER ENVIRONMENTAL REGULATIONS AT THIS LOCATION.

2. THERE ARE NO STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY ASSOCIATED WITH THIS PROJECT.

LEGEND

TEMPORARY SEDIMENT BARRIER (SILT FENCE TYPE – "A")	Sd1-A
TEMPORARY SEDIMENT BARRIER (DOUBLE LINE SILT FENCE TYPE – "C")	Sd1-C
Sd2-P (FOR EXISTING INLETS)	
Sd2-P BEFORE PAVING	
Sd2-P AFTER PAVING (FOR PROPOSED INLETS)	
TEMPORARY MULCH	Ds1
TEMPORARY GRASSING	Ds2
PERMANENT GRASSING (SEEDING)	Ds3
DUST CONTROL	Du

SEE SHEET 2 FOR EROSION CONTROL NOTES

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BRN	RSP	BRN

DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

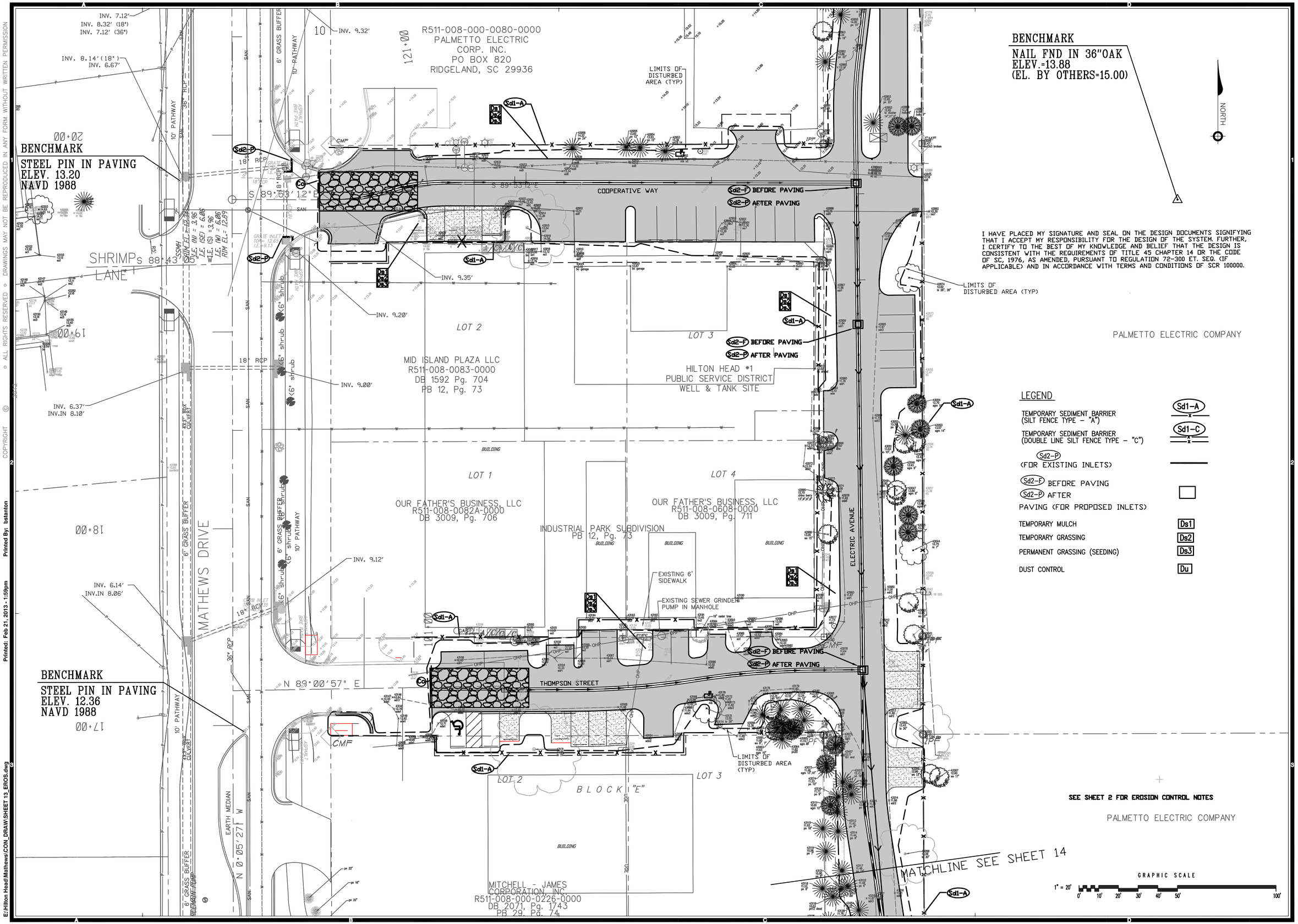
MATHEWS DRIVE SIDE ROADS FOR TOWN OF HILTON HEAD

SOIL EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER

12

OF xx



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LEGEND

TEMPORARY SEDIMENT BARRIER (SILT FENCE TYPE - "A")	Sd1-A
TEMPORARY SEDIMENT BARRIER (DOUBLE LINE SILT FENCE TYPE - "C")	Sd1-C
Sd2-P (FOR EXISTING INLETS)	
Sd2-F BEFORE PAVING Sd2-P AFTER PAVING PAVING (FOR PROPOSED INLETS)	
TEMPORARY MULCH	Ds1
TEMPORARY GRASSING	Ds2
PERMANENT GRASSING (SEEDING)	Ds3
DUST CONTROL	Du

SEE SHEET 2 FOR EROSION CONTROL NOTES

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DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
SOIL EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER
13
OF xx

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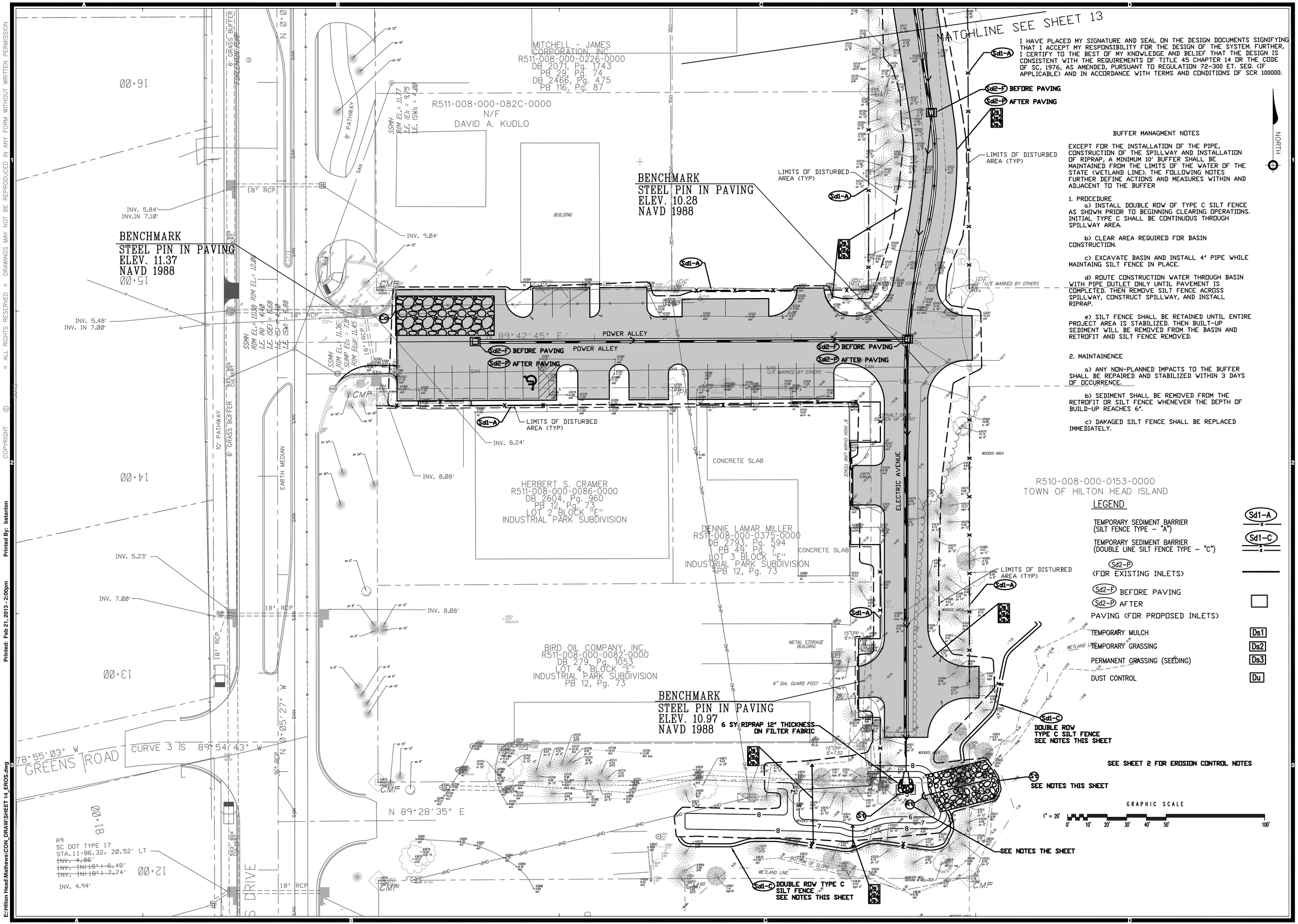

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BUFFER MANAGMENT NOTES

EXCEPT FOR THE INSTALLATION OF THE PIPE, CONSTRUCTION OF THE SPILLWAY AND INSTALLATION OF RIPRAP, A MINIMUM 10' BUFFER SHALL BE MAINTAINED FROM THE LIMITS OF THE WATER OF THE STATE (WETLAND LINE). THE FOLLOWING NOTES FURTHER DEFINE ACTIONS AND MEASURES WITHIN AND ADJACENT TO THE BUFFER

1. PROCEDURE

a) INSTALL DOUBLE ROW OF TYPE C SILT FENCE AS SHOWN PRIOR TO BEGINNING CLEARING OPERATIONS. INITIAL TYPE C SHALL BE CONTINUOUS THROUGH SPILLWAY AREA.

b) CLEAR AREA REQUIRED FOR BASIN CONSTRUCTION.

c) EXCAVATE BASIN AND INSTALL 4' PIPE WHILE MAINTAING SILT FENCE IN PLACE.

d) ROUTE CONSTRUCTION WATER THROUGH BASIN WITH PIPE OUTLET ONLY UNTIL PAVEMENT IS COMPLETED. THEN REMOVE SILT FENCE ACROSS SPILLWAY, CONSTRUCT SPILLWAY, AND INSTALL RIPRAP.

e) SILT FENCE SHALL BE RETAINED UNTIL ENTIRE PROJECT AREA IS STABILIZED. THEN BUILT-UP SEDIMENT WILL BE REMOVED FROM THE BASIN AND RETROFIT AND SILT FENCE REMOVED.

2. MAINTAINENCE

a) ANY NON-PLANNED IMPACTS TO THE BUFFER SHALL BE REPAIRED AND STABILIZED WITHIN 3 DAYS OF OCCURRENCE.

b) SEDIMENT SHALL BE REMOVED FROM THE RETROFIT OR SILT FENCE WHENEVER THE DEPTH OF BUILD-UP REACHES 6".

c) DAMAGED SILT FENCE SHALL BE REPLACED IMMEDIATELY.

LEGEND

TEMPORARY SEDIMENT BARRIER (SILT FENCE TYPE - "A")	Sd1-A
TEMPORARY SEDIMENT BARRIER (DOUBLE LINE SILT FENCE TYPE - "C")	Sd1-C
Sd2-P (FOR EXISTING INLETS)	
Sd2-F BEFORE PAVING	
Sd2-P AFTER PAVING (FOR PROPOSED INLETS)	
TEMPORARY MULCH	Ds1
TEMPORARY GRASSING	Ds2
PERMANENT GRASSING (SEEDING)	Ds3
DUST CONTROL	Du

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SAVANNAH, GEORGIA
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TEL (912) 354-4626
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DATE: FEBRUARY, 2013

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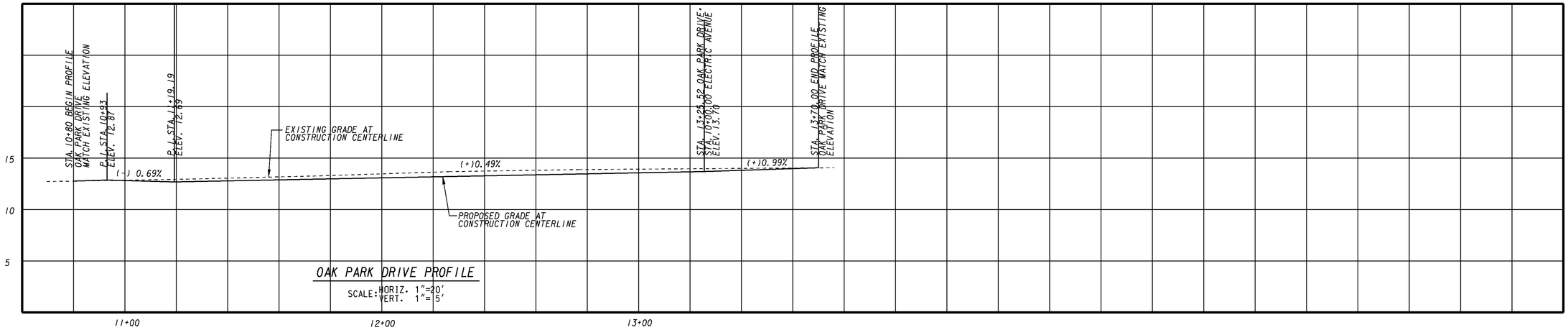
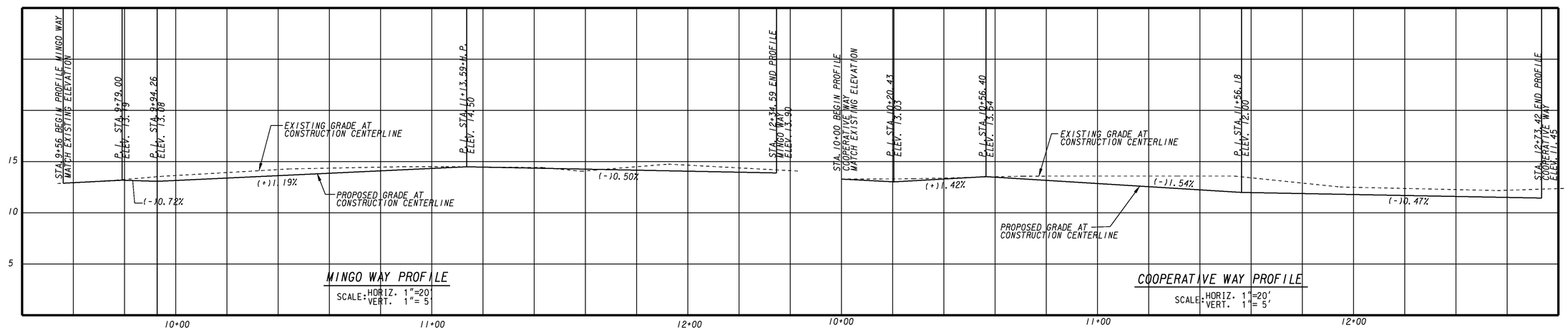
MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
SOIL EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER
14
OF xx



OAK PARK DRIVE PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"= 5'

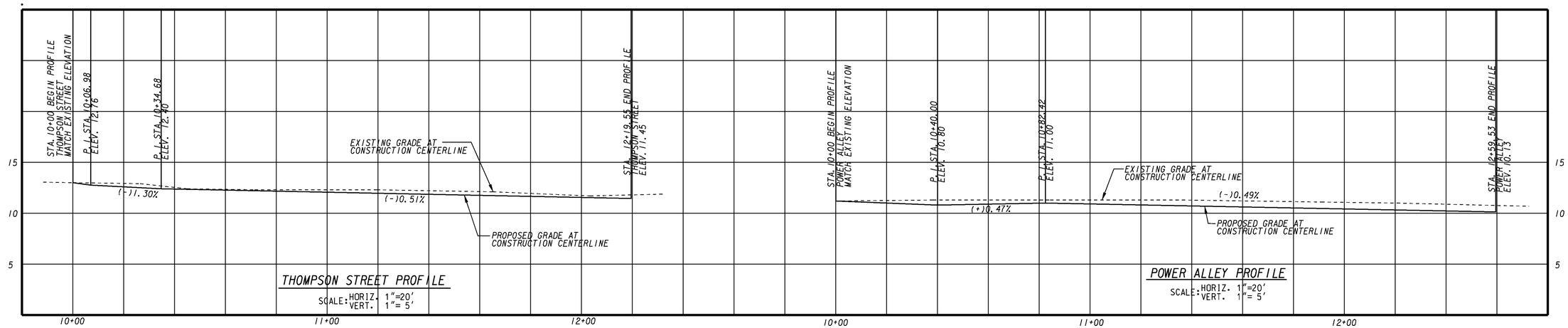


MINGO WAY PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"= 5'

COOPERATIVE WAY PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"= 5'



THOMPSON STREET PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"= 5'

POWER ALLEY PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"= 5'

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 15904 BILLY RAY NEWTON

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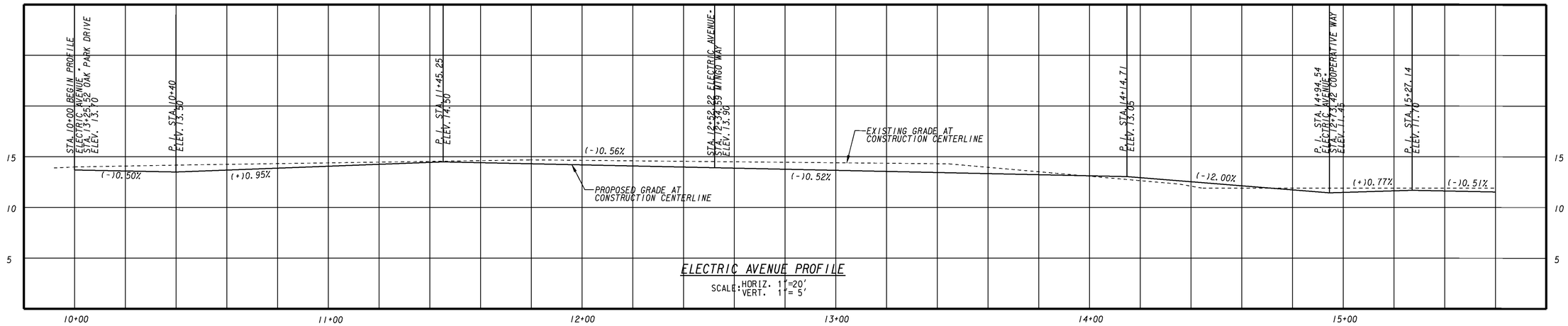
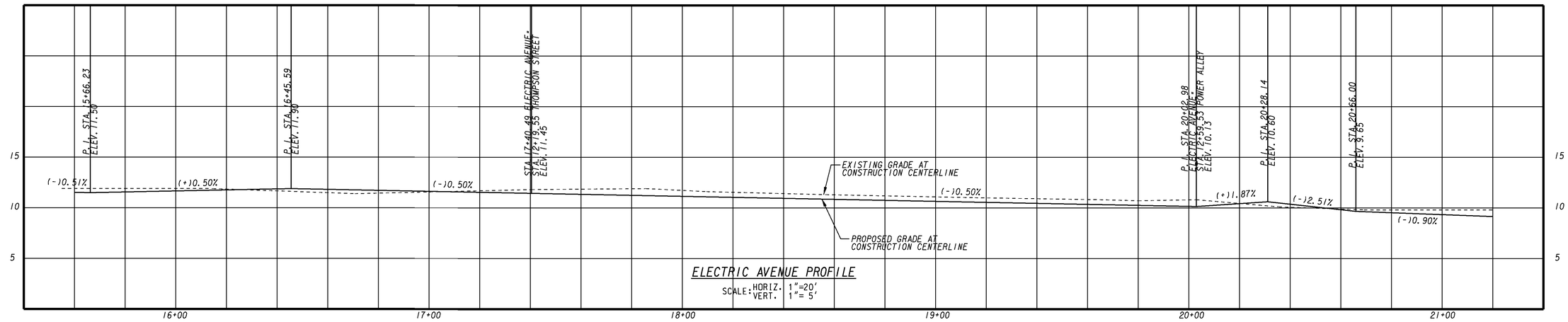
SCALE:

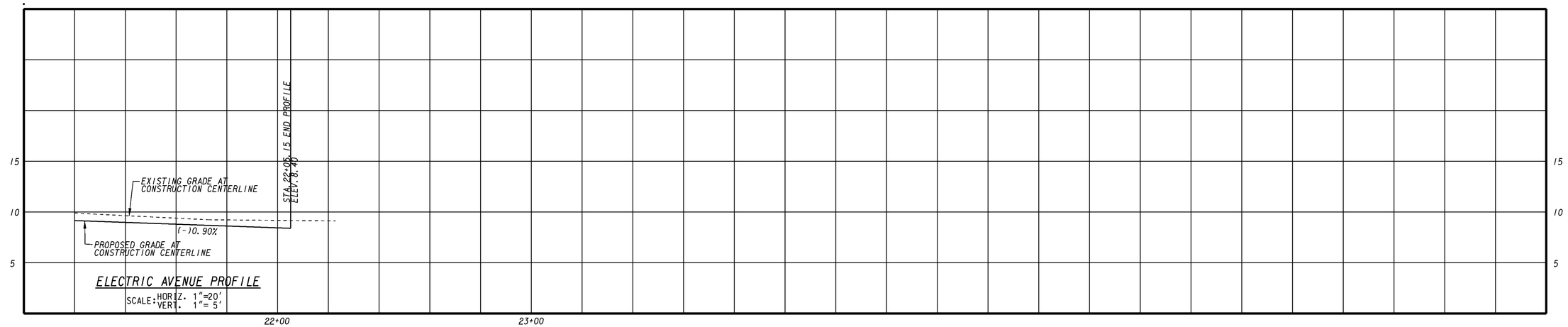
MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
ROADWAY PROFILES

DRAWING NUMBER

15 OF xx







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SAVANNAH, GEORGIA
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BRN	RSP	BRN

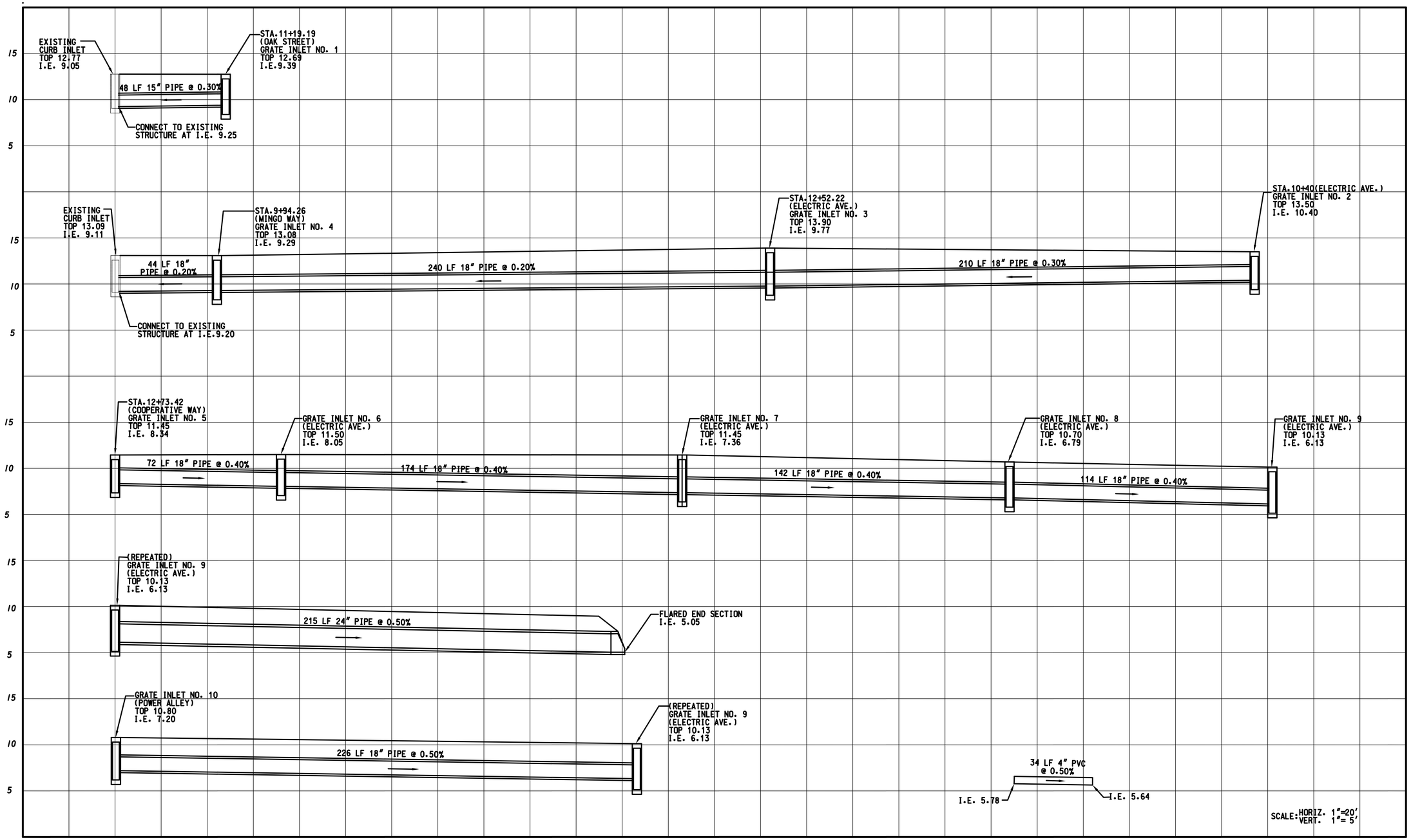
DATE: FEBRUARY, 2013

JOB NO.

SCALE:

MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
ROADWAY PROFILES

DRAWING NUMBER
16
OF xx



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E:\Hilton Head\Mathews\CON_DRAW\SHEET 17_Drainage Profile_1.dwg

SOUTH CAROLINA REGISTERED No. 19800 PROFESSIONAL ENGINEER BILLY RAY NICHOLSON

SOUTH CAROLINA HUSSEY, GAY, BELL & DeYOUNG, INC. No. C00536 CERTIFICATE OF AUTHORIZATION

HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS
POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
320 COMMERCIAL DRIVE (31406)
TEL (912) 354-4626
FAX (912) 354-8754
www.hgbd.com
A Bell Company

REVISIONS:

DESIGNED	DRAWN	CHECKED
BRN	RSP	BRN

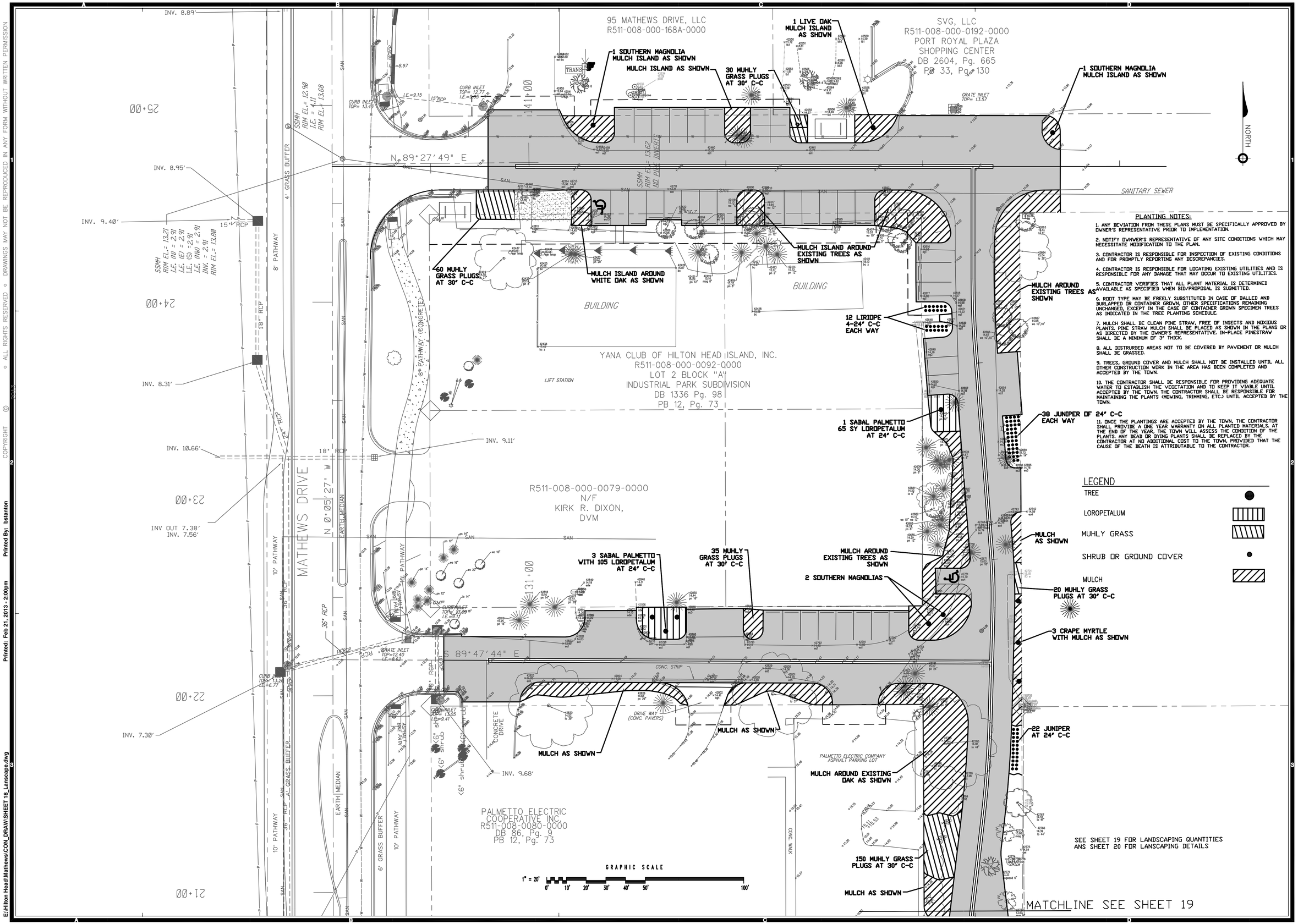
DATE: FEBRUARY, 2013

JOB NO.

SCALE:

MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
STORM DRAINAGE PROFILE

DRAWING NUMBER
17
OF xx



PLANTING NOTES:

1. ANY DEVIATION FROM THESE PLANS MUST BE SPECIFICALLY APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION.

2. NOTIFY OWNWER'S REPRESENTATIVE OF ANY SITE CONDITIONS WHICH MAY NECESSITATE MODIFICATION TO THE PLAN.

3. CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS AND FOR PROMPTLY REPORTING ANY DESCREPANCIES.

4. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO EXISTING UTILITIES.

5. CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.

6. ROOT TYPE MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN, OTHER SPECIFICATIONS REMAINING UNCHANGED, EXCEPT IN THE CASE OF CONTAINER GROWN SPECIMEN TREES AS INDICATED IN THE TREE PLANTING SCHEDULE.

7. MULCH SHALL BE CLEAN PINE STRAW, FREE OF INSECTS AND NOXIOUS PLANTS. PINE STRAW MULCH SHALL BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IN-PLACE PINESTRAW SHALL BE A MINIMUM OF 3" THICK.

8. ALL DISTRURBED AREAS NOT TO BE COVERED BY PAVEMENT OR MULCH SHALL BE GRASSED.

9. TREES, GROUND COVER AND MULCH SHALL NOT BE INSTALLED UNTIL ALL OTHER CONSTRUCTION WORK IN THE AREA HAS BEEN COMPLETED AND ACCEPTED BY THE TOWN.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE WATER TO ESTABLISH THE VEGETATION AND TO KEEP IT VIABLE UNTIL ACCEPTED BY THE TOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANTS (MOWING, TRIMMING, ETC.) UNTIL ACCEPTED BY THE TOWN.

11. ONCE THE PLANTINGS ARE ACCEPTED BY THE TOWN, THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTED MATERIALS. AT THE END OF THE YEAR, THE TOWN WILL ASSESS THE CONDITION OF THE PLANTS. ANY DEAD OR DYING PLANTS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN, PROVIDED THAT THE CAUSE OF THE DEATH IS ATTRIBUTABLE TO THE CONTRACTOR.

LEGEND

- TREE
- LOROPETALUM
- MUHLY GRASS
- SHRUB OR GROUND COVER
- MULCH

SEE SHEET 19 FOR LANDSCAPING QUANTITIES
ANS SHEET 20 FOR LANSCAPING DETAILS

HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS
328 COMMERCIAL DRIVE (31406)
TEL (912) 354-4626
FAX (912) 354-8754
POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
www.hgbd.com

REVISIONS:

DESIGNED	DRAWN	CHECKED
BRN	RSP	BRN

DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
LANDSCAPING PLAN

DRAWING NUMBER
18
OF xx

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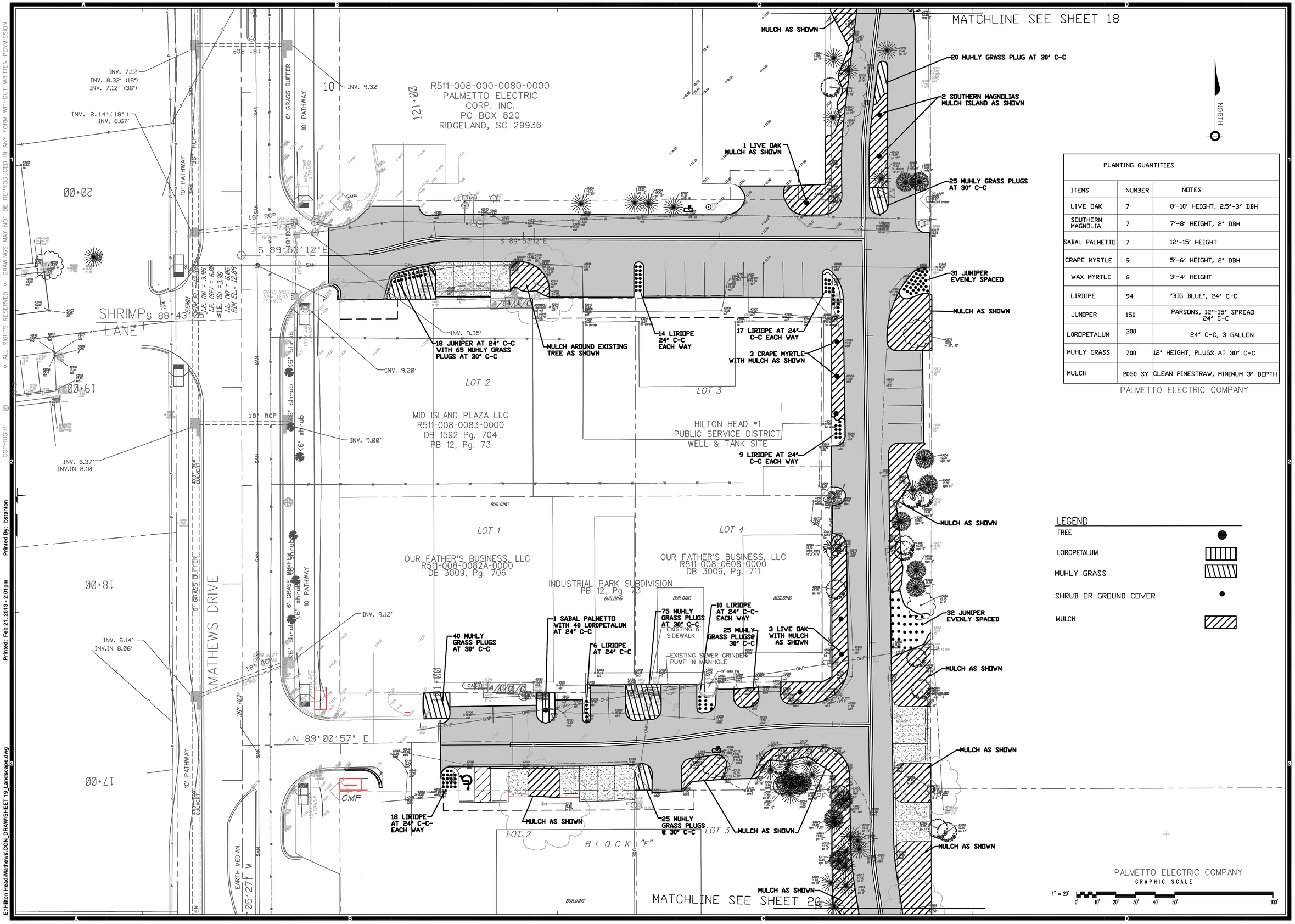

PLANTING QUANTITIES

ITEMS	NUMBER	NOTES
LIVE OAK	7	8'-10' HEIGHT, 2.5'-3' DBH
SOUTHERN MAGNOLIA	7	7'-8' HEIGHT, 2' DBH
SABAL PALMETTO	7	12'-15' HEIGHT
CRAPE MYRTLE	9	5'-6' HEIGHT, 2' DBH
WAX MYRTLE	6	3'-4' HEIGHT
LIRIOPE	94	'BIG BLUE', 24' C-C
JUNIPER	150	PARSONS, 12'-15' SPREAD 24' C-C
LOROPETALUM	300	24' C-C, 3 GALLON
MUHLY GRASS	700	12' HEIGHT, PLUGS AT 30' C-C
MULCH	2050 SY	CLEAN PINESTRAW, MINIMUM 3' DEPTH

PALMETTO ELECTRIC COMPANY

LEGEND

- TREE
- LOROPETALUM
- MUHLY GRASS
- SHRUB OR GROUND COVER
- MULCH

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DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
LANDSCAPING PLAN

DRAWING NUMBER
19
OF xx

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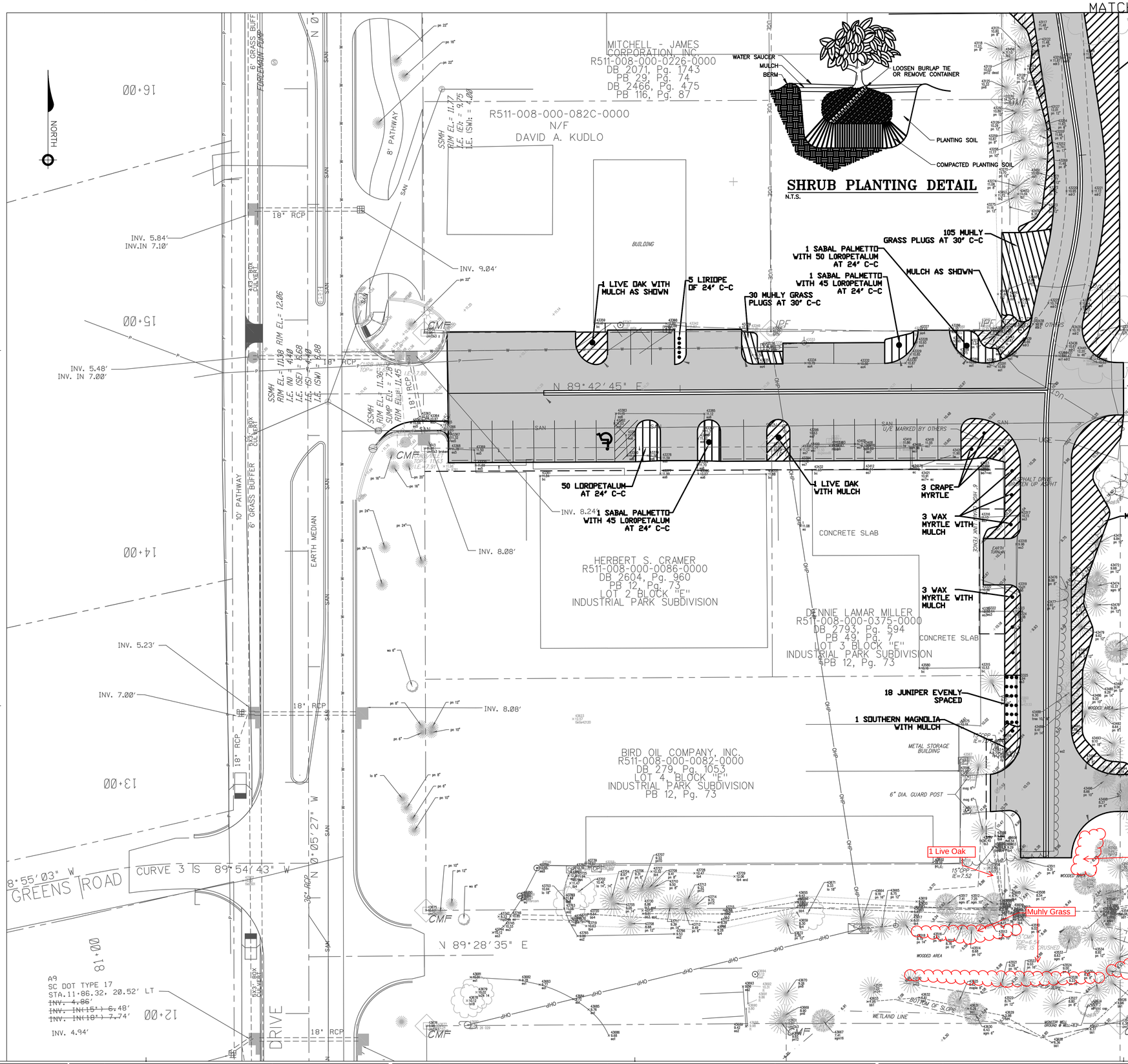
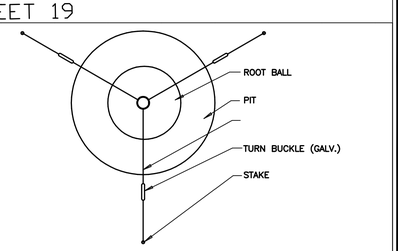
MATCHLINE SEE SHEET 19

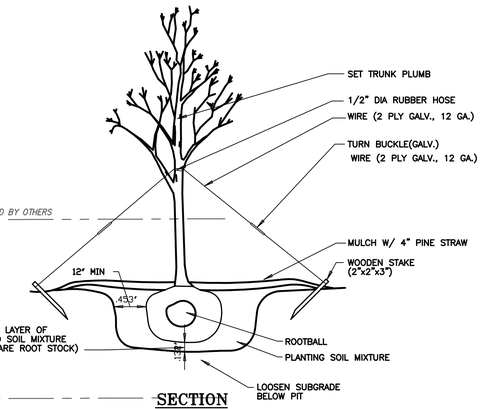


SHRUB PLANTING DETAIL

N.T.S.



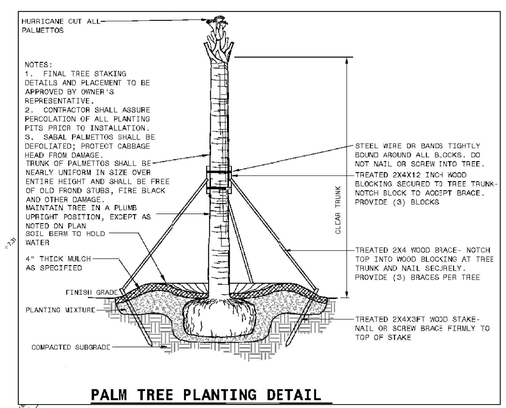
PLAN



SECTION

TREE PLANTING DETAIL FOR TREES 2-1/2" CAL. & OVER

N.T.S.



PALM TREE PLANTING DETAIL

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SAVANNAH, GEORGIA
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DATE: FEBRUARY, 2013

JOB NO.

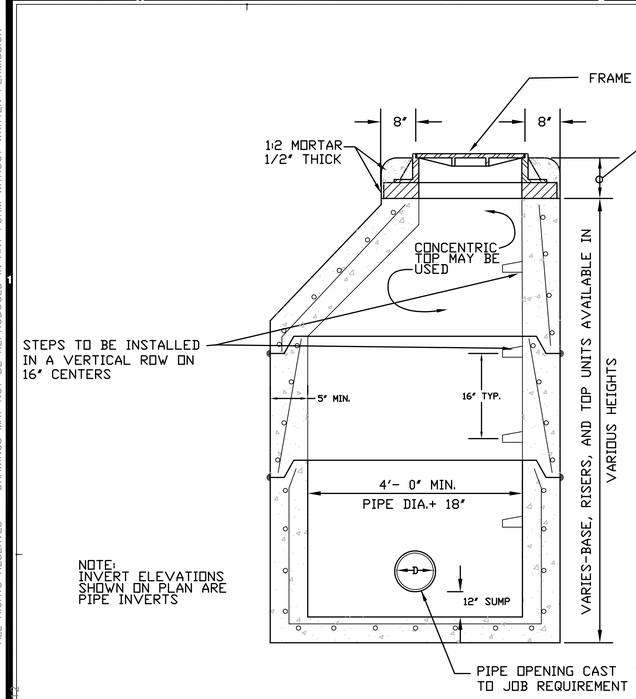
SCALE: 1"= 20'

MATHEWS DRIVE SIDE ROADS FOR TOWN OF HILTON HEAD

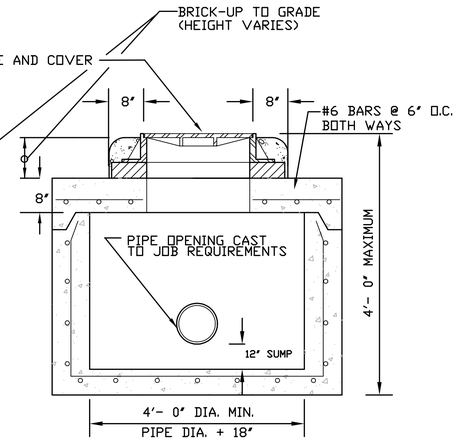
LANDSCAPING PLAN

DRAWING NUMBER

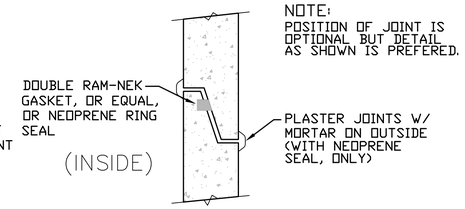
20 OF xx



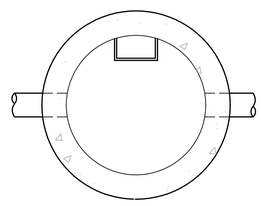
DEEP MANHOLE



SHALLOW MANHOLE



JOINT DETAIL

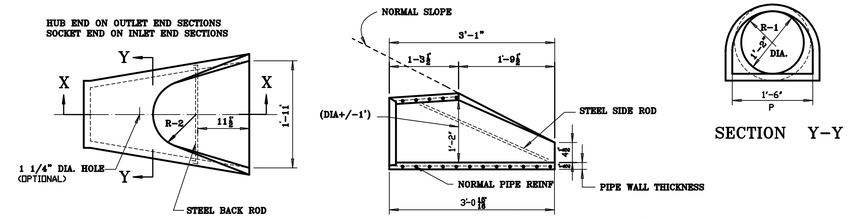


PLAN

STANDARD PRECAST CONCRETE STORM MANHOLE

N.T.S.

FLARE REINFORCEMENT & DIMENSIONS (+/-1"TOLERANCE)												
PIPE DIA.	SIDE RODS	BACK RODS	FABRIC	SLOPE	A	B	C	L	E	P	R	
12"	2-3X2'5"	NOT REQ'D	2"X8"8/9	2.2:1	4"	2'0"	4'1"	6'1"	2'0"	1'8"	10"	9"
15"	2-3X2'11"	NOT REQ'D	2"X8"8/9	2.2:1	6"	2'3"	3'10"	6'1"	2'6"	2'0"	1'0"	11"
18"	2-3X3'6"	NOT REQ'D	2"X8"8/9	2.2:1	9"	2'3"	3'10"	6'1"	3'0"	2'5"	1'4"	1'0"
24"	2-3X5'0"	NOT REQ'D	2"X8"8/9	2.4:1	10"	3'8"	2'6"	6'2"	4'0"	2'9"	1'5"	1'2"
30"	2-4X6'2"	NOT REQ'D	2"X8"8/9	2.4:1	12"	4'6"	1'8"	6'2"	5'0"	3'1"	1'6"	1'3"
36"	2-4X7'5"	NOT REQ'D	2"X8"8/9	2.4:1	15"	5'3"	2'11"	8'2"	6'0"	4'0"	2'6"	1'8"
42"	2-4X8'7"	NOT REQ'D	2"X8"8/9	2.4:1	21"	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	1'10"



PLAN

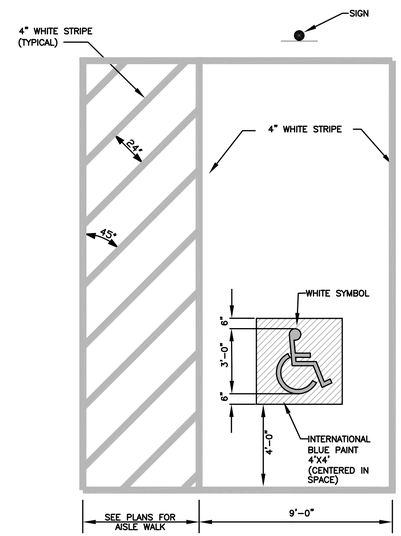
SECTION X-X

SECTION Y-Y

NOTE:
REINFORCEMENT SHALL CONFORM TO ASTM A-82 OR A-306 FOR CAGE WIRE AND ATSM A-185 FOR WIRE FABRIC

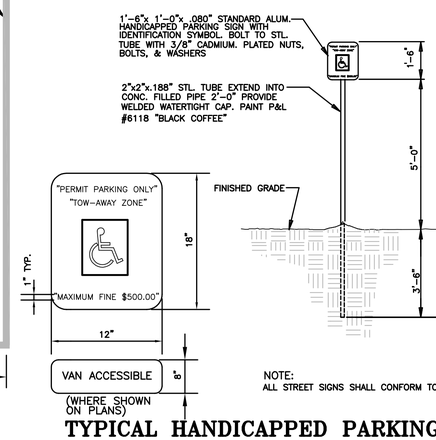
FLARED END SECTION DETAIL

N.T.S.



AUTO ACCESSIBLE PAINTED HANDICAP SYMBOL

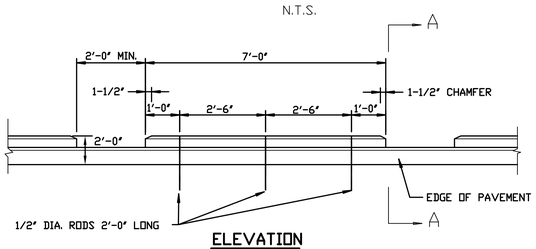
N.T.S.



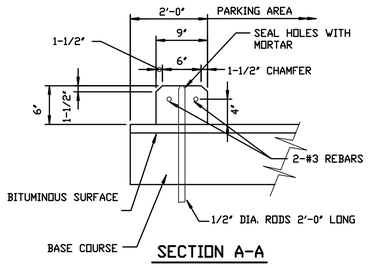
NOTE:
ALL STREET SIGNS SHALL CONFORM TO THE MUTCD

TYPICAL HANDICAPPED PARKING SIGN

N.T.S.



ELEVATION

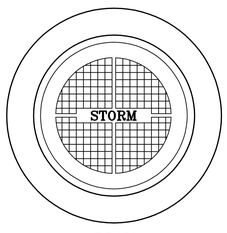


SECTION A-A

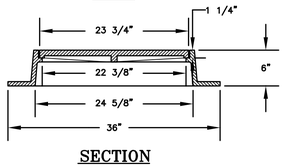
NOTE: ANCHOR RODS TO BE SLEEVED OR GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.

WHEEL STOP DETAIL

N.T.S.



PLAN

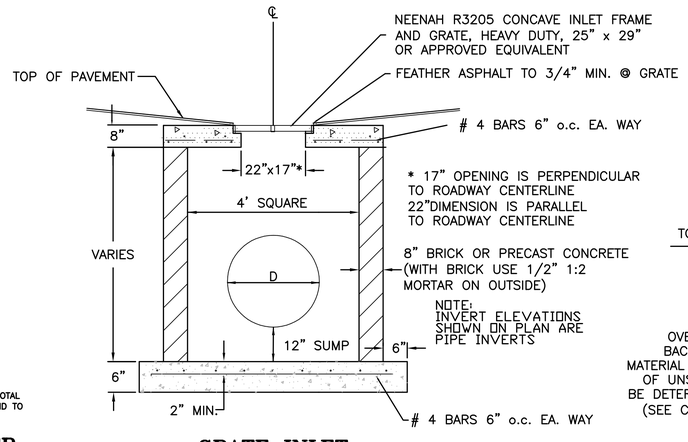


SECTION

NOTE:
MANHOLE RIM & COVER SIMILAR TO U.S. FOUNDRY CO. USF 170-E. TOTAL WEIGHT 280# TYPE "E" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM" (NOT VENTED).

STORM MANHOLE RING & COVER

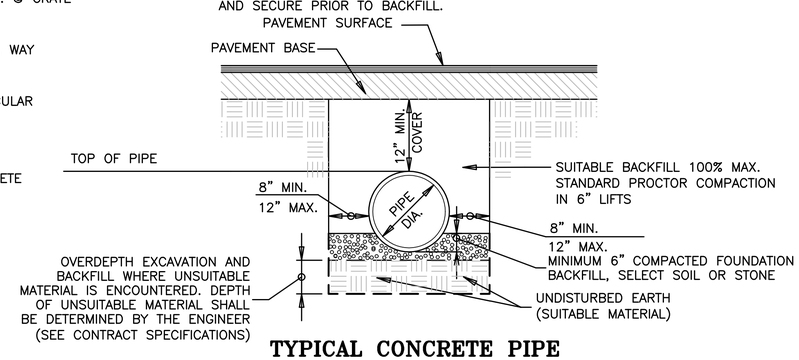
N.T.S.



GRATE INLET

N.T.S.

NOTE: THE CONTRACTOR SHALL WRAP ALL JOINTS WITH FILTER CLOTH AT LEAST 12" WIDE AND OVERLAP BY 50% AND SECURE PRIOR TO BACKFILL.



TYPICAL CONCRETE PIPE TRENCH UNDER PAVEMENT

N.T.S.

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REVISIONS:

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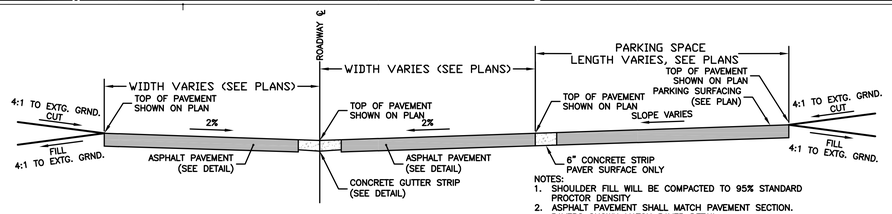
DATE: FEBRUARY, 2013

JOB NO.

SCALE:

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
DETAILS

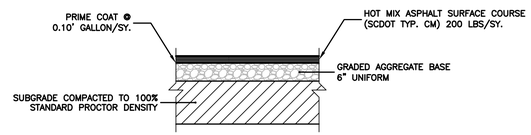
DRAWING NUMBER
21
OF xx



NOTES:
1. SHOULDER FILL WILL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY
2. ASPHALT PAVEMENT SHALL MATCH PAVEMENT SECTION. PAVERS SHOWN MATCH PAVER DETAIL.

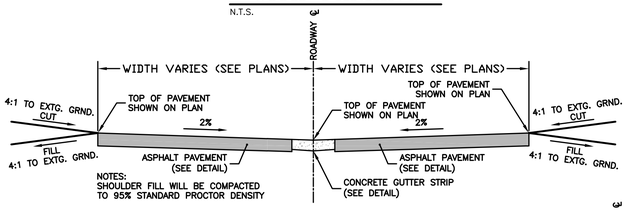
TYPICAL SECTION WITH PARKING

N.T.S.



TYPICAL PAVEMENT SECTION ALL STREETS EXCEPT POWER ALLEY

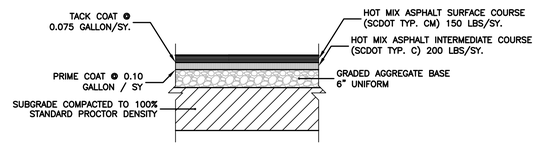
N.T.S.



NOTES:
SHOULDER FILL WILL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY

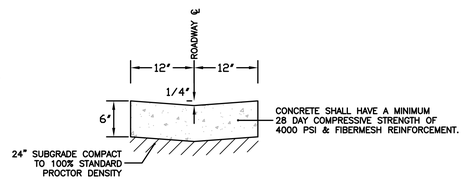
TYPICAL SECTION WITHOUT PARKING

N.T.S.



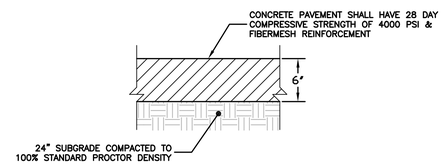
TYPICAL PAVEMENT SECTION POWER ALLEY

N.T.S.



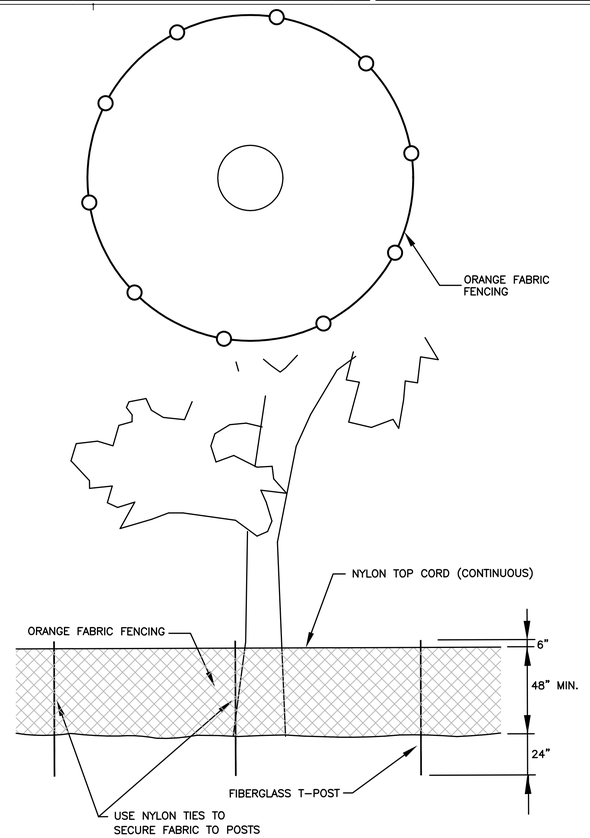
CONCRETE GUTTER STRIP DETAIL

N.T.S.



6" CONCRETE PAVEMENT

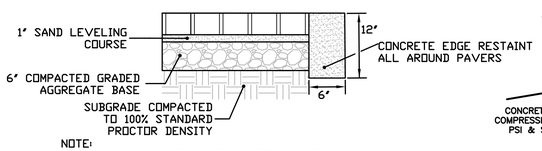
N.T.S.



TREE PROTECTION BARRICADE

N.T.S.

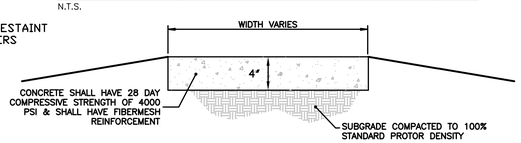
4"x8" CONCRETE PAVERS. PAVER COLOR AND LAYING PATTERN TO MATCH EXISTING (IF CALLED OUT ON PLANS) OR AS DIRECTED BY THE TOWN. PAVERS TO BE CHAMFERED AND LUGGED.



NOTE:
COST OF EXCAVATION, BASE COURSE, LEVELING COURSE & CONCRETE STOP SHALL BE INCLUDED IN PRICE BID FOR PAVERS.

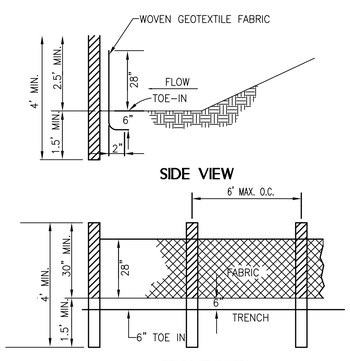
PERVIOUS PAVERS DETAILS

N.T.S.



CONCRETE SIDEWALK

N.T.S.



TYPE A FABRIC (36")

USE:
1) ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS.
2) WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.

POST SIZE

MIN. LENGTH	TYPE OF POST	SIZE OF POST
4'	SOFT WOOD	3" DIA. OR 2X4
4'	OAK	1.5"X1.5"
4'	STEEL	1.3 LB./FT. MIN.

FASTENERS FOR WOOD POST (WIRE STAPLES)

GAUGE	CROWN	LEGS	STAPLES/POST
17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.

FASTENERS FOR WOOD POST (NAILS)

GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
14 MIN.	1"	3/4"	4 MIN.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

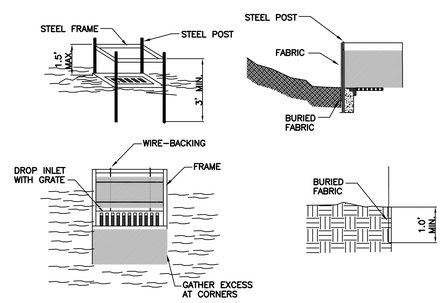
FENCE

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

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

SEDIMENT BARRIER SILT FENCE - TYPE A

Sd1-A

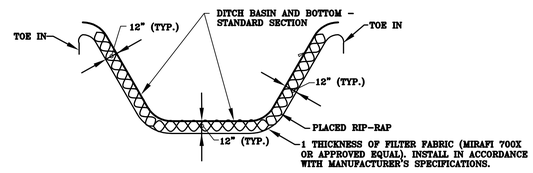


1. USE STEEL POST WITH A MINIMUM LENGTH OF 3 FEET.
2. SPACE STEEL POSTS EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STEEL POSTS AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STEEL POST.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

NOTE: THIS BMP SHALL BE INSTALLED AROUND INLET IMMEDIATELY AFTER BOX AND GRATE PLACEMENT. THE BMP SHALL BE REMOVED WHEN BASE COURSE/ PAVEMENT IS INSTALLED, AND SHALL BE REPLACED WITH SEDIMENT TUBE BMP (Sd2-P) AT THAT TIME.

INLET STRUCTURE FILTER- TYPE B
FILTER FABRIC WITH SUPPORTING FRAME

Sd2-F



STORM DRAIN OUTLET PROTECTION DETAIL
TYPICAL RIP-RAP INSTALLATION

St

COASTAL PLAIN VEGETATIVE COVERS

MONTH OF PLANTING	TEMPORARY GRASS	RATE	MONTH OF PLANTING	PERMANENT GRASS	RATE
MARCH-JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac	MARCH-JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac
APRIL-AUGUST	BROWN TOP MILLET	40 Lbs./Ac	JULY-AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET	10 Lbs./Ac 10 Lbs./Ac
SEPTEMBER-FEBRUARY	RYEGRASS	40 Lbs./Ac	SEPTEMBER-FEBRUARY	COMMON BERMUDA (UNHULLED) & RYE	10 Lbs./Ac 1/2 Bu./Ac

1. SEED SHOULD BE SCARIFIED (HULL PENETRATION)
2. INOCULATE SEED
3. USE ON WET SITES

EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL WILL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.

GRASSING SCHEDULE

Ds2
Ds3

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POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
329 COMMERCIAL DRIVE (31406)
TEL (912) 354-4626
FAX (912) 354-8754
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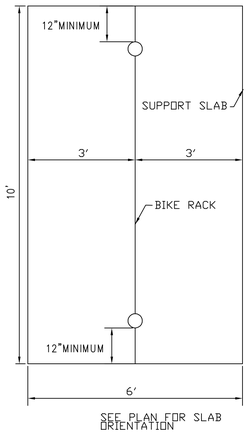
BRN	RSP	BRN

DATE: FEBRUARY, 2013
JOB NO.
SCALE:

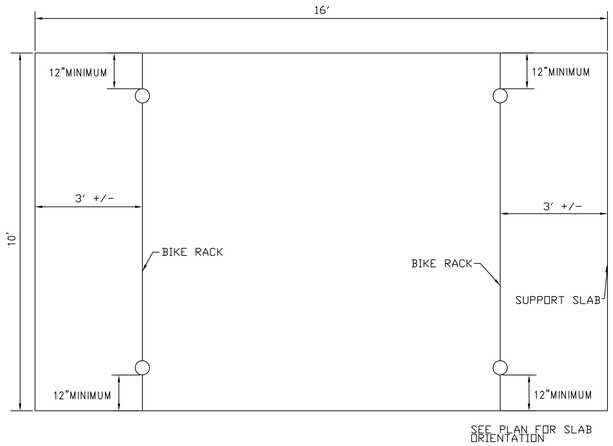
MATTHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
DETAILS

DRAWING NUMBER
22
OF xx



SINGLE BIKE RACK DETAIL - PLAN

N.T.S.



DOUBLE BIKE RACK DETAIL - PLAN

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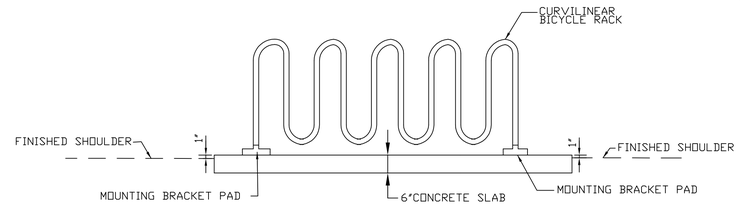
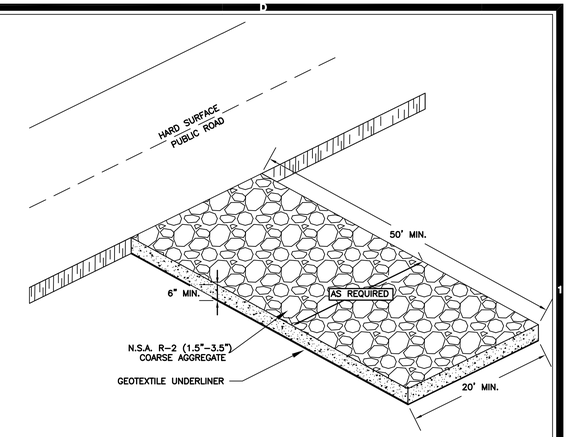


BIKE RACK - ELEVATION

N.T.S.

BIKE RACK NOTES

1. CONCRETE SLAB SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. THE CONCRETE SHALL BE REINFORCED WITH FIBERS INCLUDED IN THE MIX.
2. TOP OF CONCRETE SLAB SHALL BE 1" ABOVE FINISHED SHOULDER ELEVATION. SLAB SHALL BE SLOPED TO DRAIN.
3. SLAB SHALL BE POURED ON COMPACTED EARTH FOUNDATION.
4. SEE PLAN VIEWS FOR SLAB DIMENSIONS.
5. THE BIKE RACK SHALL BE A CURVILINEAR WAVE ALIGNMENT. EACH RACK SHALL HOLD AT LEAST FOUR BICYCLES.
6. THE BIKE RACK SHALL:
   - SUPPORT THE BICYCLE UPRIGHT BY ITS FRAME IN TWO PLACES
   - PREVENT THE WHEEL OF THE BICYCLE FROM TOPPING OVER
   - ENABLE THE FRAME AND ONE OR BOTH WHEELS TO BE SECURED
   - ALLOW FRONT-IN AND BACK-IN PARKING
7. THE RACK SHALL BE CONSTRUCTED OF GALVANIZED STEEL AND SHALL BE PAINTED IN A COLOR SELECTED BY THE TOWN OF HILTON HEAD ISLAND. THE MINIMUM DIAMETER OF THE SUPPORTS SHALL BE 2".
8. RACK SHALL BE CONNECTED TO SLAB PER MANUFACTURER'S INSTRUCTIONS.



TEMPORARY CRUSHED STONE CONSTRUCTION EXIT

Co

NOTES :
1. AFTER ROAD BASE COURSE IS PLACED, WEIGHTED INLET TUBES SHALL BE PLACED AROUND INLET STRUCTURES. WEIGHTED INLET TUBES ARE APPLICABLE WHERE CONSTRUCTION TRAFFIC MAY OCCUR AROUND THE INLET.

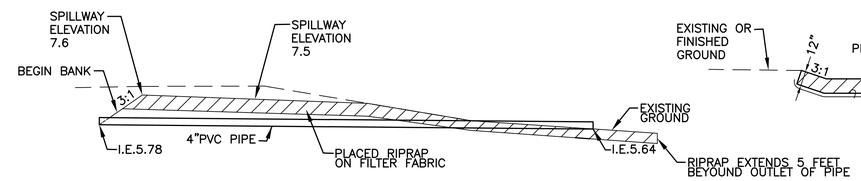
2. INSTALL WEIGHTED INLET TUBES LYING FLAT ON THE GROUND WITH NO GAPS BETWEEN THE UNDERLYING SURFACE AND THE TUBE.

3. DO NOT COMPLETELY BLOCK INLETS WITH INLET TUBES. INSTALL WEIGHTED INLET TUBES IN SUCH A MANNER THAT ALL OVERFLOW CAN ENTER THE INLET UNOBSTRUCTED. TO AVOID PDSSIBLE FLOODING, 2 OR 3 CDNCRETE CINDER BLOCKS MAY BE PLACED BETWEEN THE WEIGHTED INLET TUBE AND THE INLET.

4 REPLACE INLET TUBES DURING INSTALLATIDN AS DIRECTED BY THE ENGINEER* INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

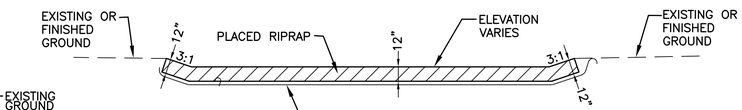
5. WEIGHTED SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION AS NEEDED.

6. THIS FILTER TO BE USED ONLY AFTER BASE COURSE IS INSTALLED. USE Sd2-F FOR OTHER APPLICATIONS.



RIPRAP SPILLWAY - PROFILE

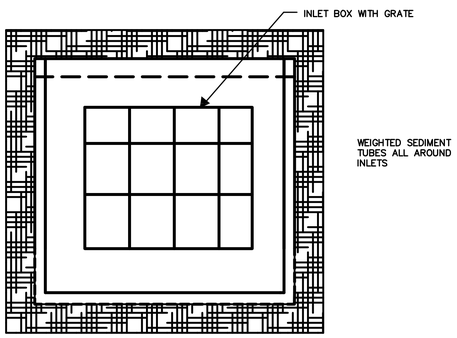
N.T.S.



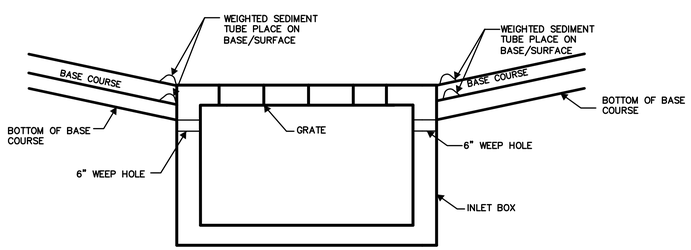
RIPRAP SPILLWAY - SECTION

N.T.S.

NOTE:
RIPRAP SHALL BE HARD DENSE STONE WITH A MINIMUM WEIGHT OF 150 POUNDS PER CUBIC FEET. THE MINIMUM STONE SIZE SHALL BE 3", WITH THE MAXIMUM STONE SIZE BEING 12".



PLAN



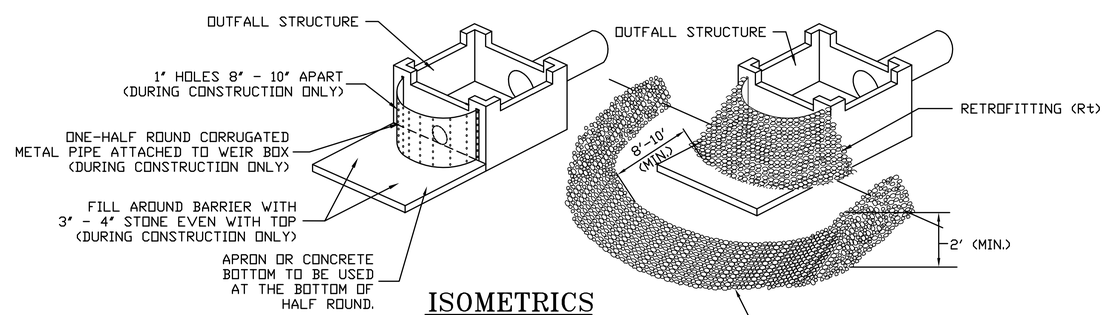
SECTION

WEEP HOLES SHALL BE PLACED ON SIDE PERPENDICULAR TO CENTERLINE ONLY. THE TOP OF THE WEEP HOLE SHALL BE AT OR NEAR THE ELEVATION OF THE BOTTOM OF THE BASE COURSE.

INLET STRUCTUERE FILTER TYPE F

Sd2-P

N.T.S.



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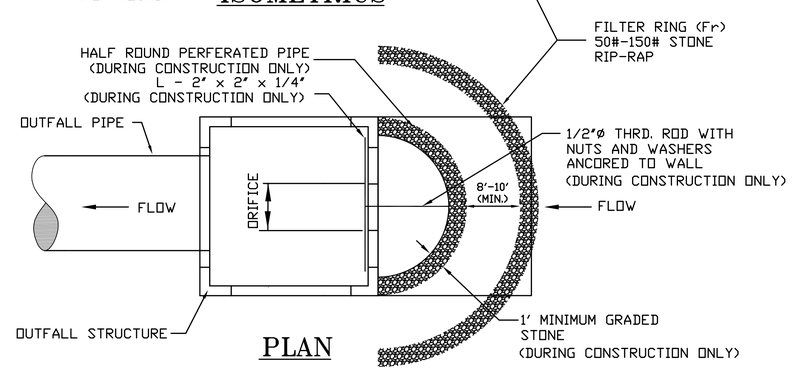


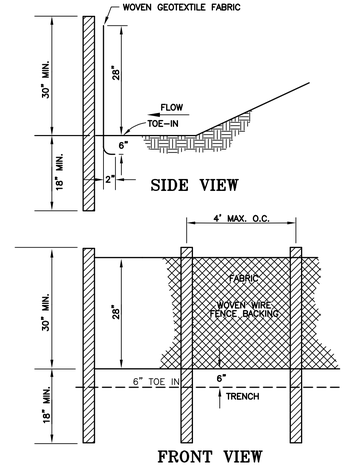
PLAN

NOTES:
1) RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST (SEE NOTE NUMBER 7 UNDER THE "STORAGE CALCULATIONS (Sd3)" ON SHEET 2). THIS STRUCTURE IS TEMPORARY AND SHALL BE REMOVED WHEN DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
2) THE TOP OF THE OUTFALL STRUCTURE IS NOT SHOWN FOR CLARITY.
3) CONTRACTOR SHALL REMOVE RETROFITTING AND FILTER RINGS AFTER ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED.

RETROFITTING TEMPORARY

Rt

N.T.S.



TYPE C FABRIC (36")

USE: WHERE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE GRADIENT IS STEEPER THAN 3:1.

MIN. LENGTH	TYPE OF POST	SIZE OF POST
4'	STEEL	1.3 LB./FT. MIN.

TENSILE STRENGTH ELONGATION

FENCE

TENSILE STRENGTH (LBS. MIN.) (1) (ASTM D-4632)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL/MIN./SQ. FT.) (GDT-87)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	MIN. FABRIC WIDTH (INCHES)
WARP-260 FILL-180	40	#30	70	80	175	36

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

NOTE:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POSTS ONLY

SEDIMENT BARRIER SILT FENCE - TYPE C

Sd1-C

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320 COMMERCIAL DRIVE (31406) TEL (912) 354-4626 FAX (912) 354-6754
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DATE: FEBRUARY, 2013

JOB NO.

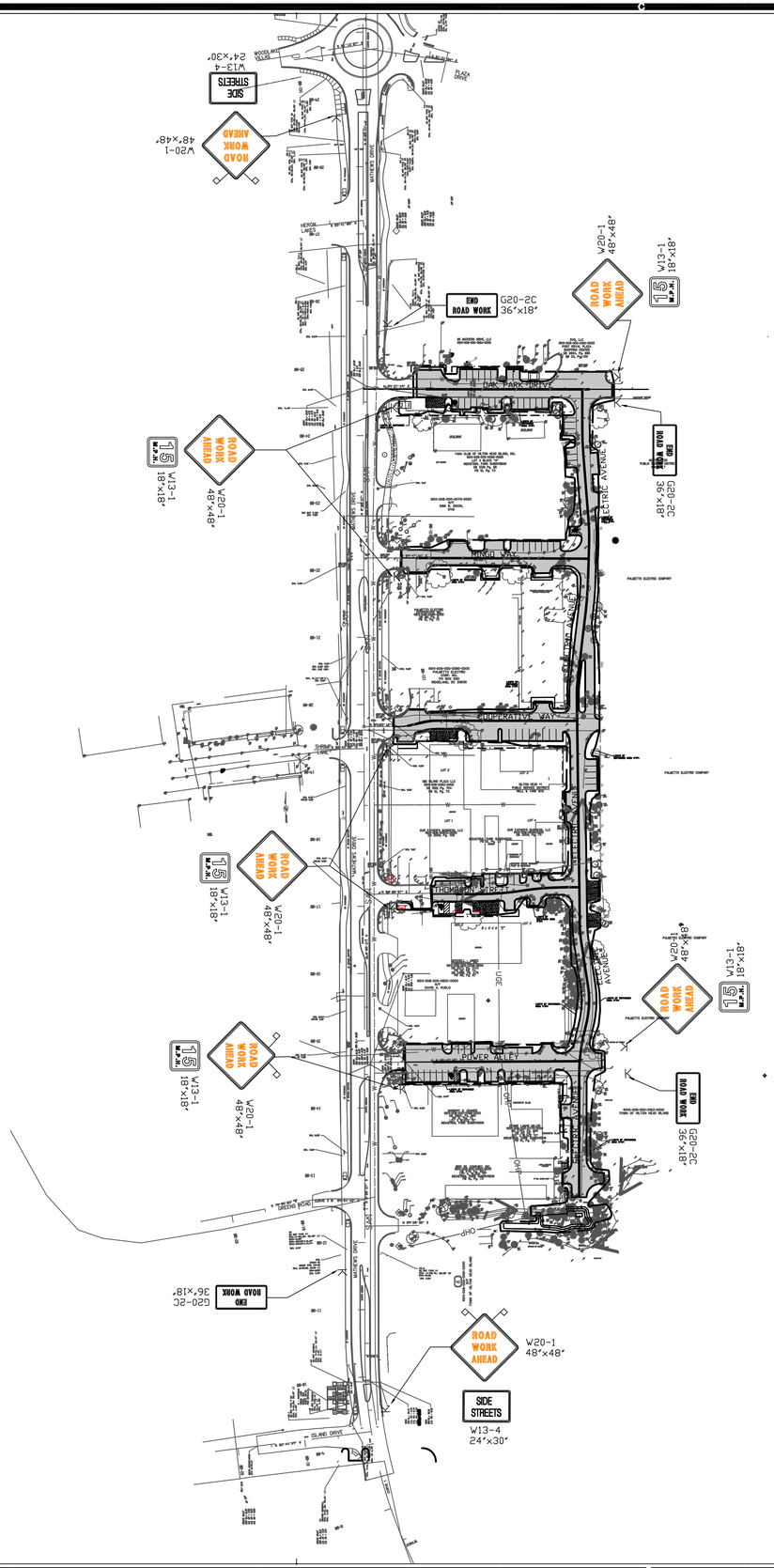
SCALE:

MATTHEWS DRIVE SIDE ROADS FOR TOWN OF HILTON HEAD

DETAILS

DRAWING NUMBER

23 OF xx



TRAFFIC CONTROL NOTES

1. ALL SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

2. SIGNS ON MATHEWS DRIVE SHALL BE INSTALLED PRIOR TO BEGINNING WORK AND SHALL REMAIN IN PLACE UNTIL ALL WORK ON THE PROJECT IS COMPLETE.

3. SIGNS ON THE INDIVIDUAL SIDE STREETS SHALL BE INSTALLED PRIOR TO BEGINNING WORK ON EACH INDIVIDUAL STREET.

4. ALL ROADWAYS EXCEPT THOSE LISTED BELOW SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES UNLESS CLOSURE IS APPROVED BY THE TOWN OF HILTON HEAD ISLAND. ELECTRIC AVENUE MAY BE CLOSED TO TRAFFIC EXCEPT AT THROUGH INTERSECTIONS (OAK PARK AND POWER ALLEY) AND BETWEEN OAK PARK AND MINGO WAY.

5. AT LEAST ONE LANE OF TRAFFIC MOVEMENT MUST BE MAINTAINED ON OPEN ROADS AT ALL TIMES. IF ONE LANE TRAFFIC IS PROPOSED, THE CONTRACTOR SHALL PROVIDE FLAGGERS AND SIGNAGE IN ACCORD WITH SCDOT STANDARDS.

6. SHOULD A STREET CLOSURE BE REQUIRED BY THE CONTRACTOR AND APPROVED BY THE TOWN, THE CONTRACTOR SHALL PREPARE A DETOUR PLAN FOR REVIEW AND APPROVAL BY THE TOWN, AND SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING DETOUR SIGNING.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION SIGNS, FLAGGERS, TRAFFIC CHANNELIZATION DEVICES, ETC., AS REQUIRED TO MAINTAIN TRAFFIC MOVEMENT THROUGH THE WORK ZONE. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR "TRAFFIC CONTROL".

8. ALL ROADWAYS SHALL SUPPORT TWO WAY, TWO LANE TRAFFIC AT ALL TIMES WHEN NO WORK IS UNDERWAY.

9. ACCESS SHALL BE PROVIDED TO ALL PROPERTIES AT ALL TIMES EXCEPT AS MAY BE APPROVED BY THE TOWN.

NORTH

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CONSULTING ENGINEERS
POST OFFICE BOX 14247
SAVANNAH, GEORGIA
31416-1247
320 COMMERCIAL DRIVE (31406)
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DATE: FEBRUARY, 2013

JOB NO.

SCALE: 1"= 100'

MATHEWS DRIVE SIDE ROADS
FOR
TOWN OF HILTON HEAD
TRAFFIC CONTROL PLAN

DRAWING NUMBER
24
OF xx