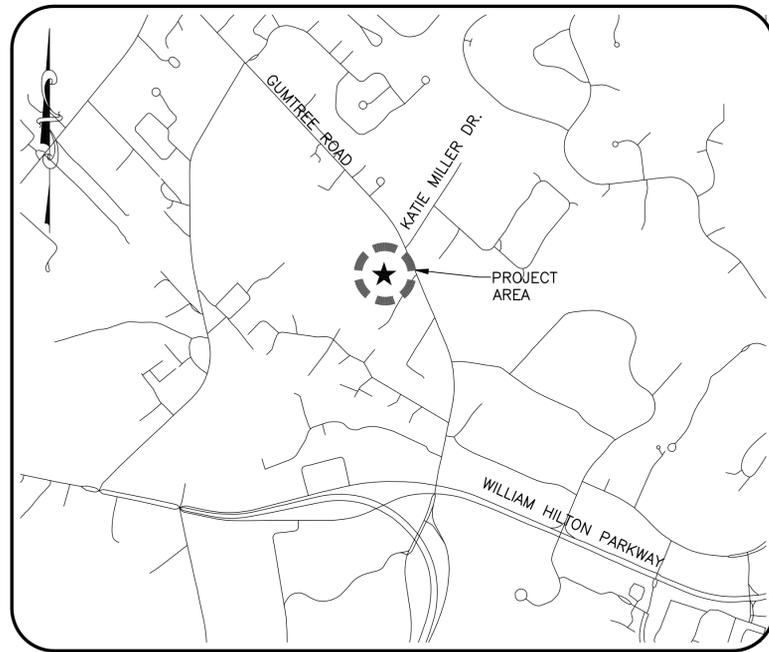
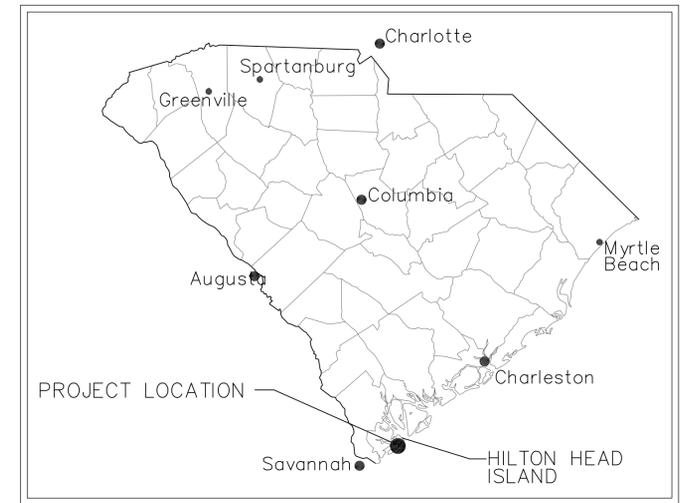


GUM TREE ROAD OUTFALL CHANNEL DRAINAGE IMPROVEMENTS



VICINITY MAP
1"=1000'



LOCATION MAP
N.T.S.



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>

Sheet List Table

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8	CHANNEL CROSS SECTIONS
9	CONSTRUCTION DETAILS
10	EROSION CONTROL DETAILS

The point of contact for this project is:
Kelli Uyesugi, EIT
Stormwater Construction Administrator
Town of Hilton Head Island
One Town Center Court
Hilton Head Island, SC 29928
Office: 843.341.4602
Cell: 843.295.8585

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

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.

ENGINEER OF RECORD

FOR BIDDING PURPOSES ONLY

FOR BIDDING

- PLOT DATE: 07/14/15 -

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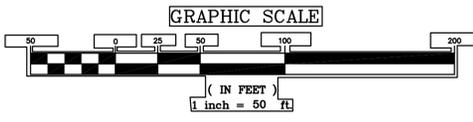
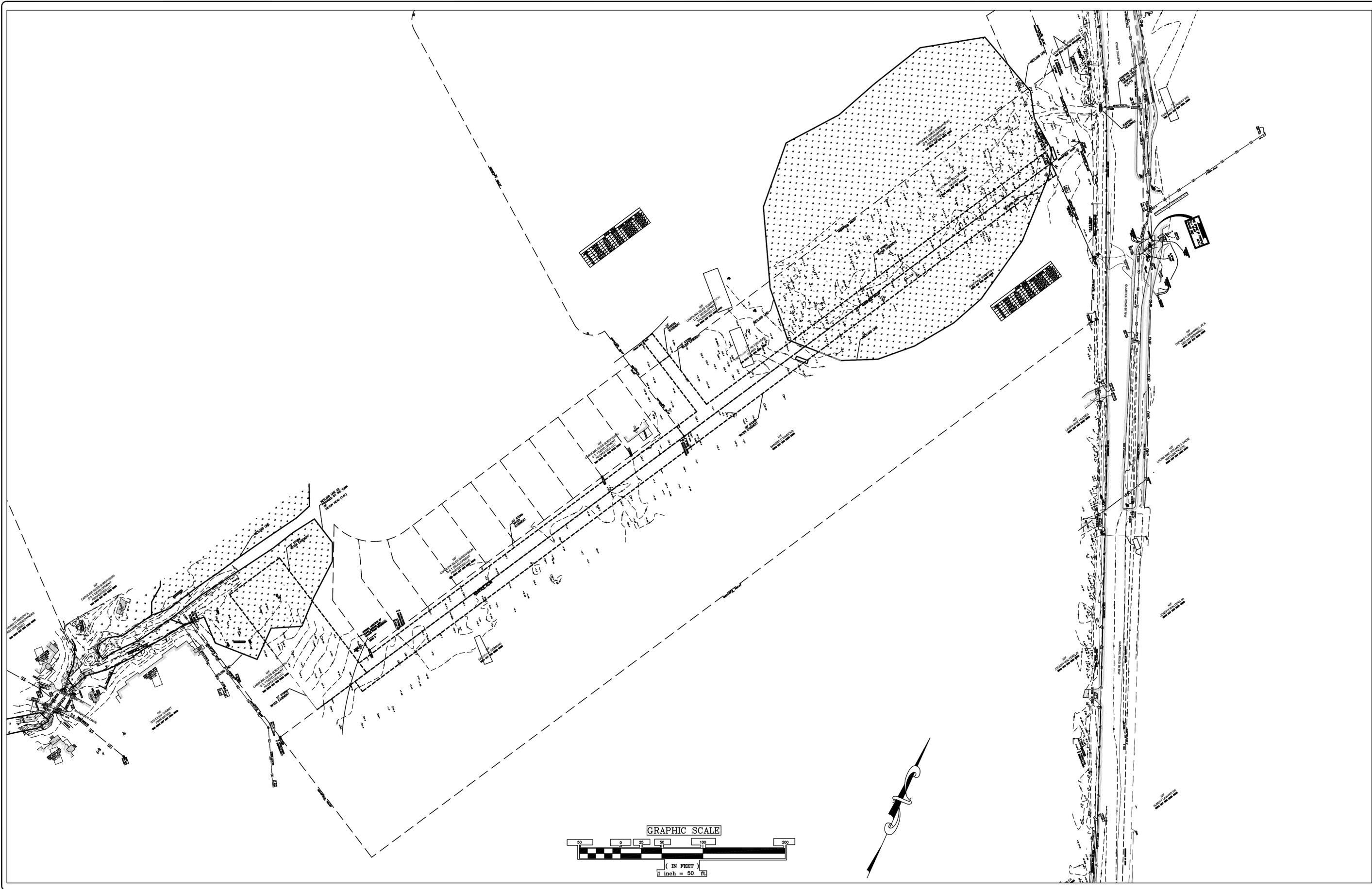
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TOWN OF HILTON HEAD ISLAND
Dept. of Public Projects & Facilities
Engineering Division

TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

TITLE SHEET

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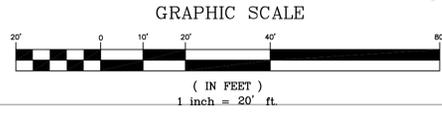
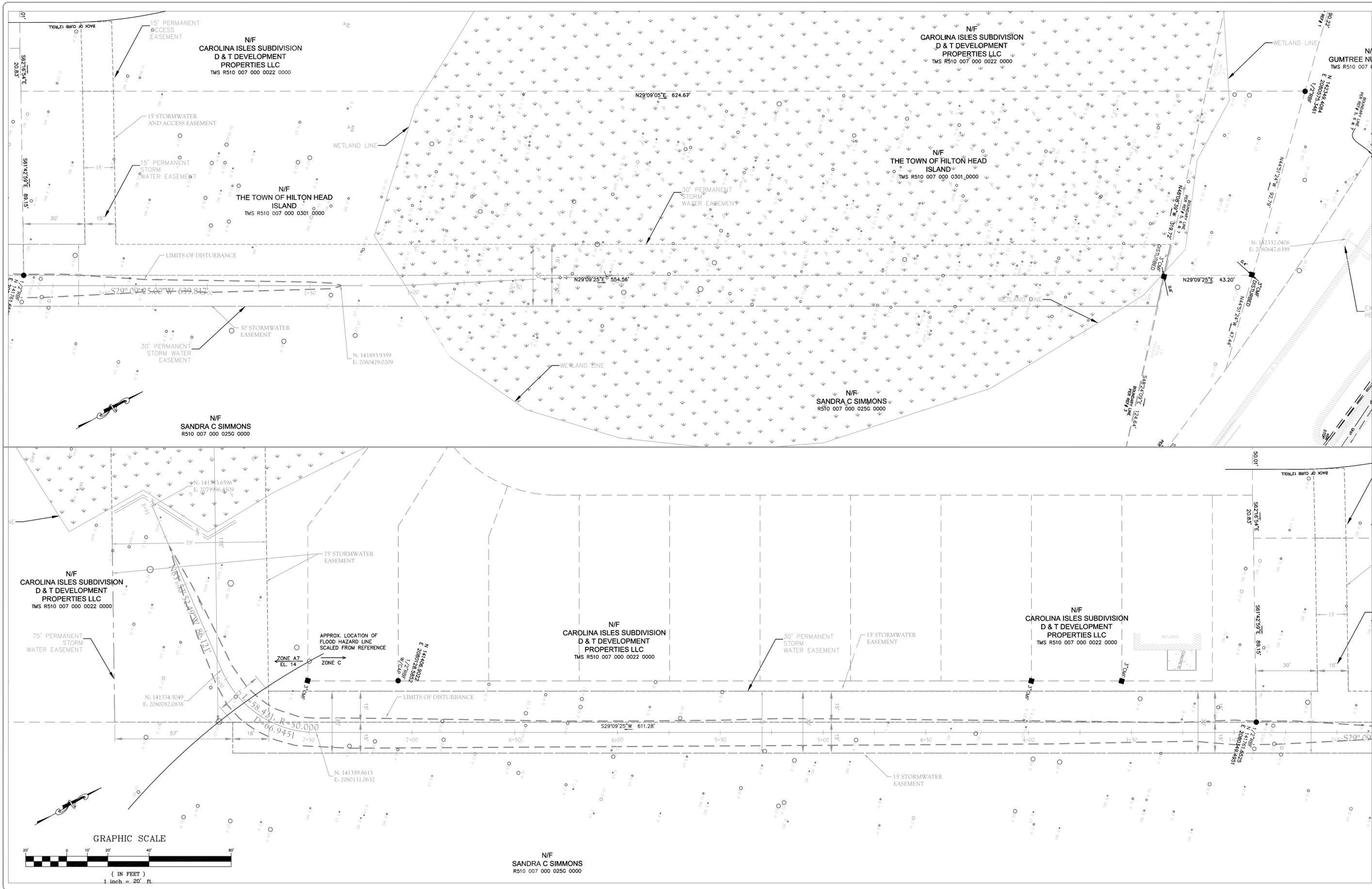
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		CONSTRUCTION	
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

EXISTING CONDITIONS

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 Engineering Division

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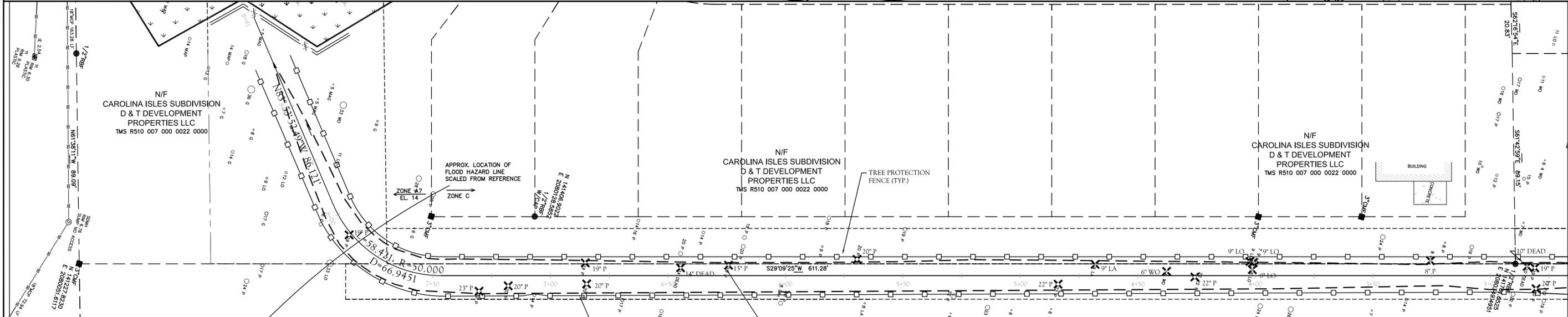
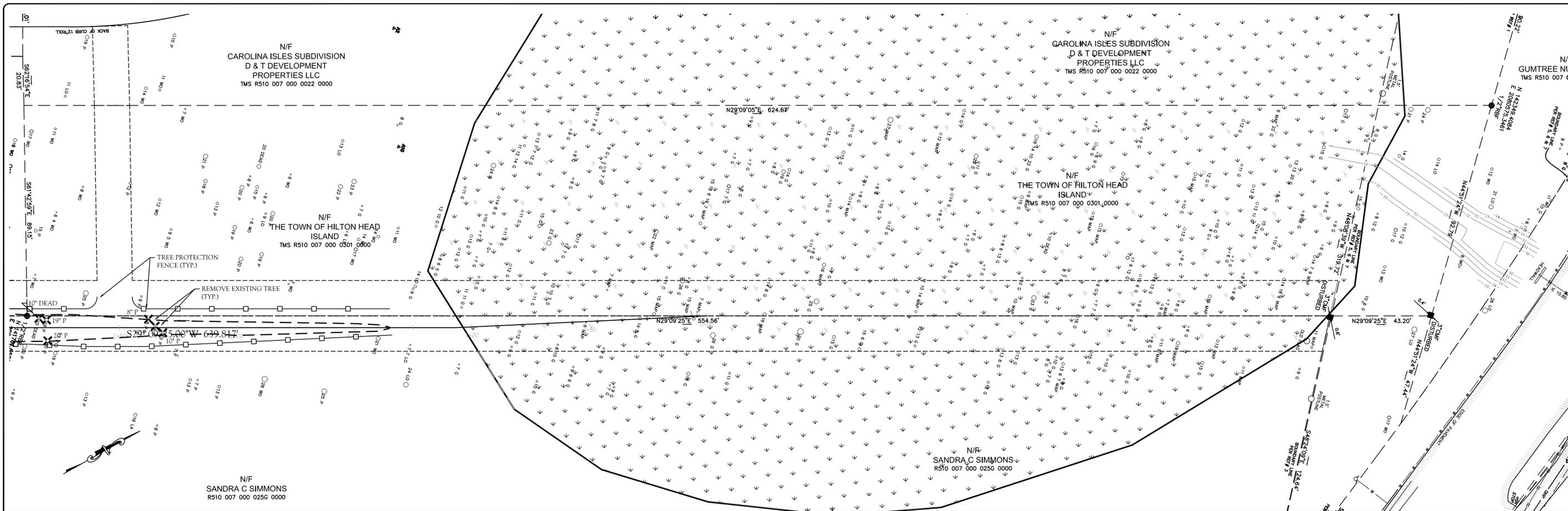


FOR BIDDING PURPOSES ONLY

TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

LAYOUT STAKING AND
EASEMENT PLAN

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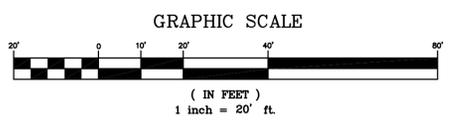


TREES TO BE REMOVED

TYPE	SIZE (IN.)	QTY.	TYPE	SIZE (IN.)	QTY.
PINE	6	1	LIVE OAK	8	1
PINE	8	2	LIVE OAK	9	2
PINE	10	1	WATER OAK	6	1
PINE	15	1	LAUREL OAK	9	1
PINE	19	3	DEAD	10	1
PINE	20	4	DEAD	14	1
PINE	22	2			
PINE	23	1			

NOTES

- NO TREES OR VEGETATION SHALL BE REMOVED WITHOUT THE SUPERVISION OF TOWN OF HILTON HEAD ISLAND NATURAL RESOURCES DIVISION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES WITHIN 25' OF ANY CONSTRUCTION ACTIVITY THROUGHOUT THE DURATION OF THE PROJECT. AT THE DIRECTION OF THE ENGINEER, TREE PROTECTION SHALL BE IMPLEMENTED BEFORE CONSTRUCTION ACTIVITIES BEGIN AND REMOVED AFTER CONSTRUCTION IS COMPLETED.
- REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND CONCRETE AS SHOWN BY CROSSHATCHED AREA. THIS WORK WILL BE MEASURED AND PAID FOR AS REMOVAL OF EXISTING ASPHALT PAVEMENT. DISTURBED AREAS SHALL BE SEED. PREPARATION, MEASUREMENT AND PAYMENT FOR SEEDING OF DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- IN ALL AREAS OF PAVEMENT REMOVAL, THE CONTRACTOR SHALL REPLACE AND REGRADE THE AREAS OF EXCAVATION WITH AN ORGANIC TYPE SOIL.



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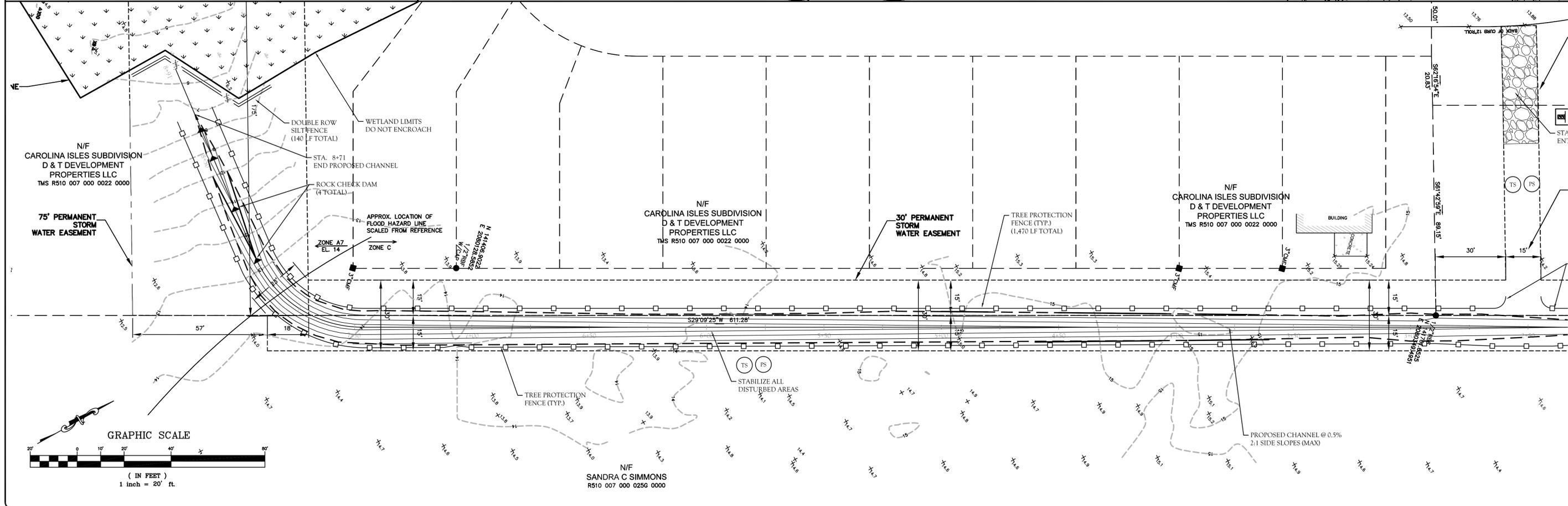
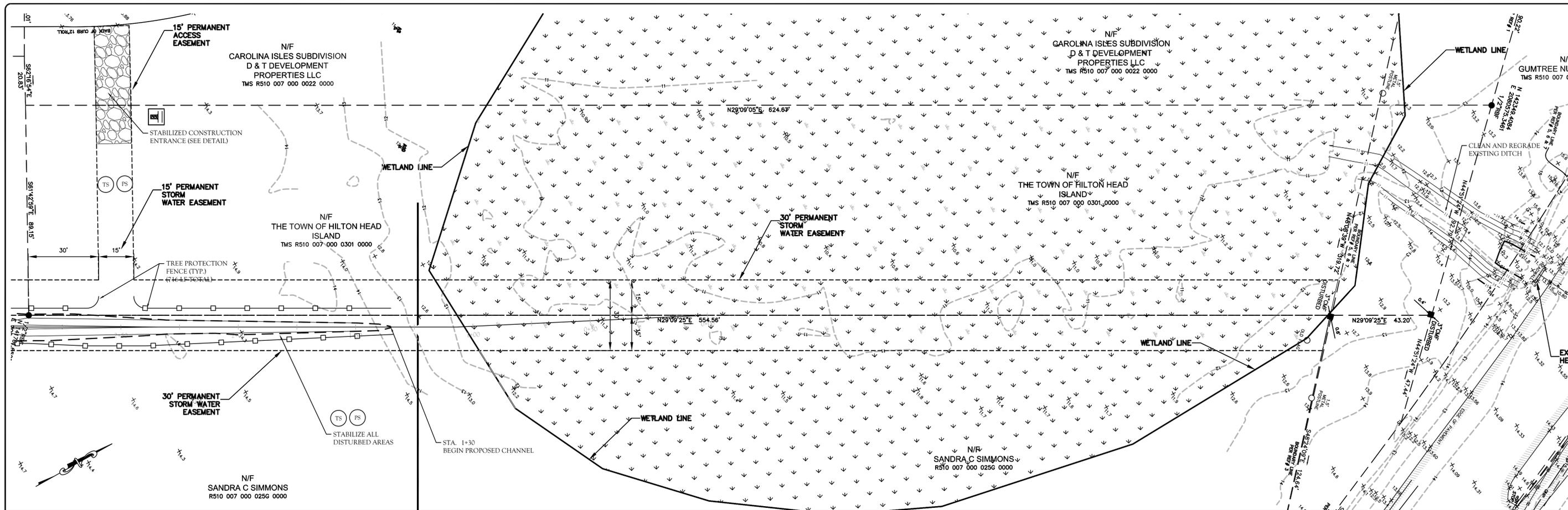
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		RECORDING	
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**TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS**

TREE REMOVAL PLAN

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REV. NO.	DESCRIPTION	DATE

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

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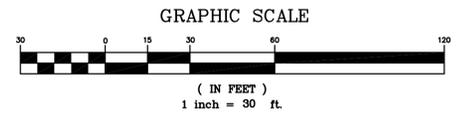
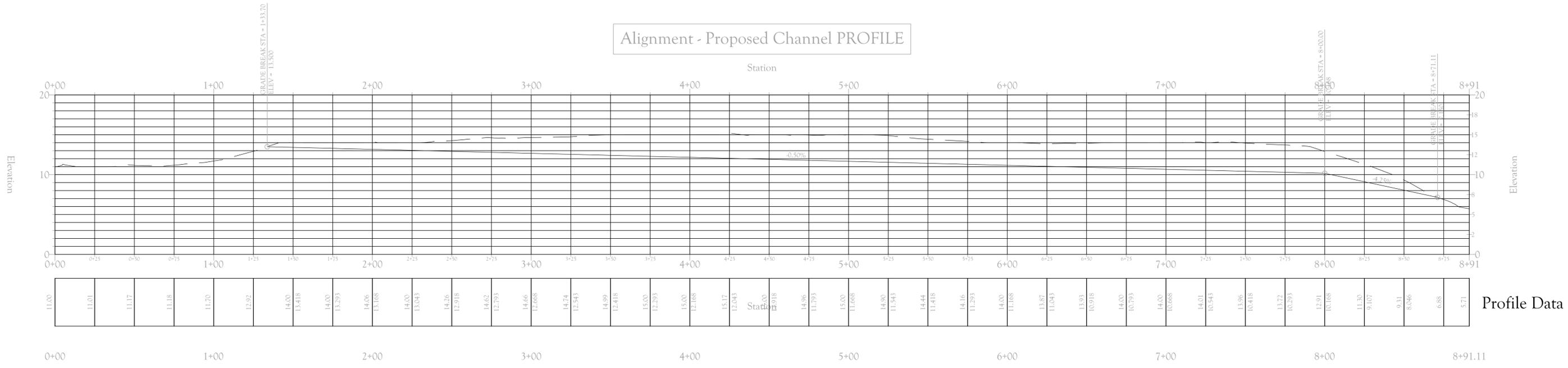
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

SITE PLAN

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Alignment - Proposed Channel PROFILE



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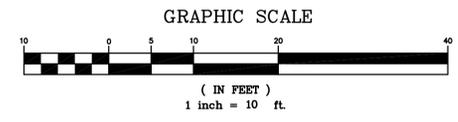
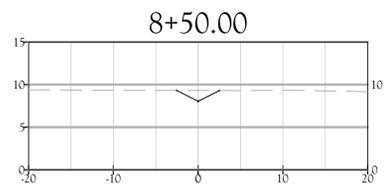
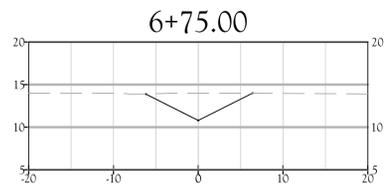
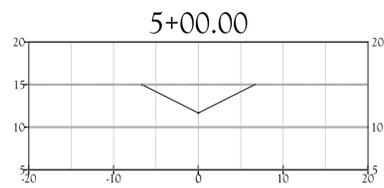
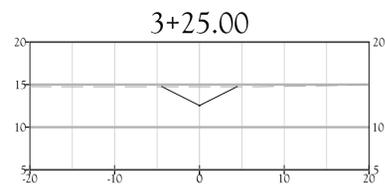
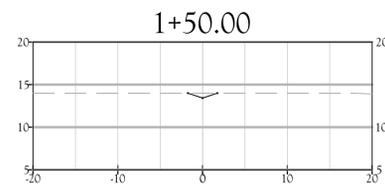
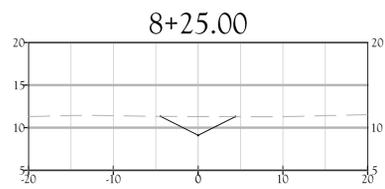
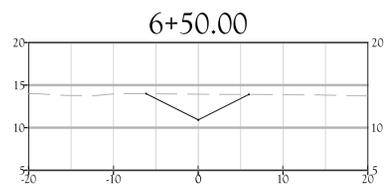
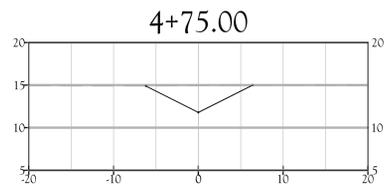
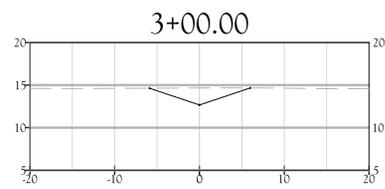
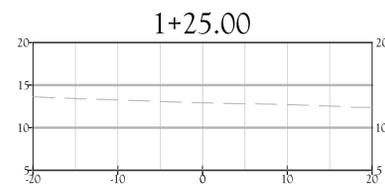
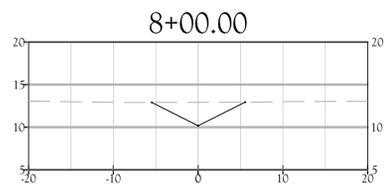
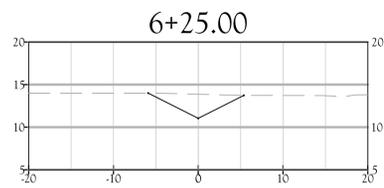
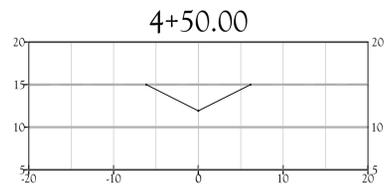
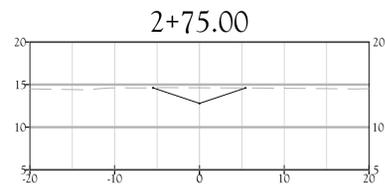
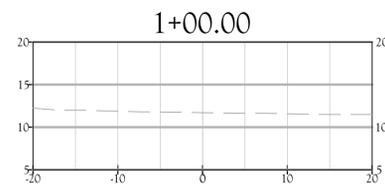
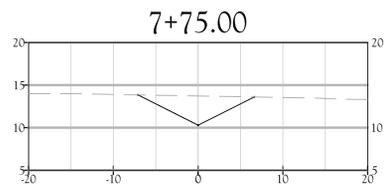
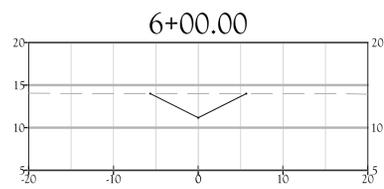
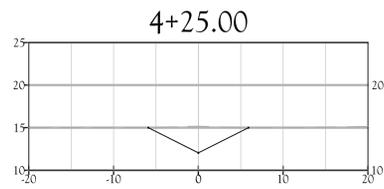
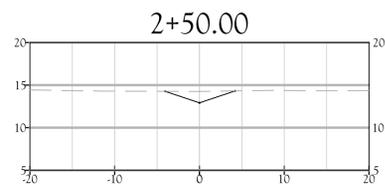
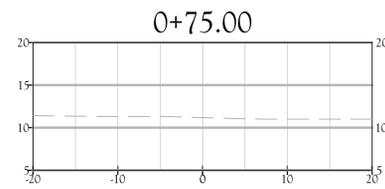
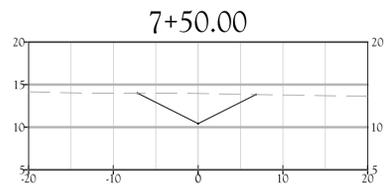
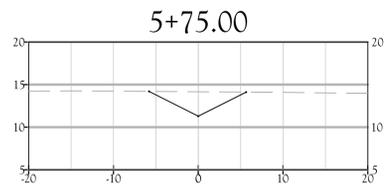
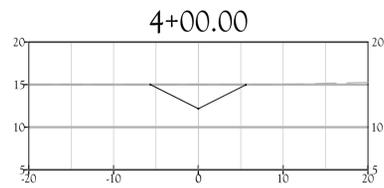
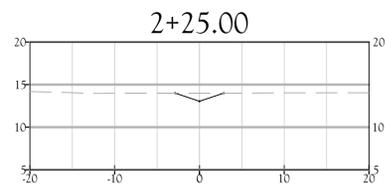
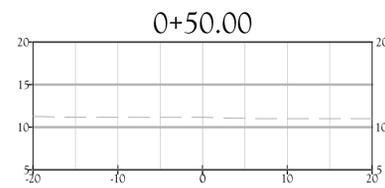
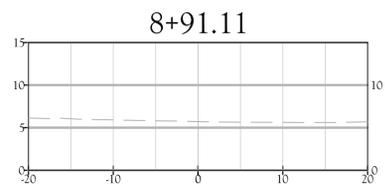
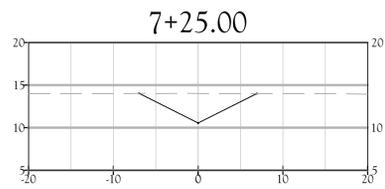
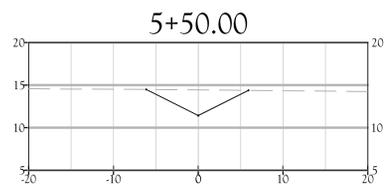
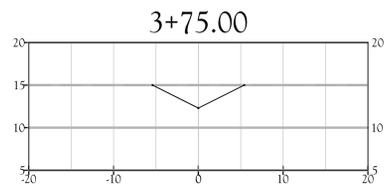
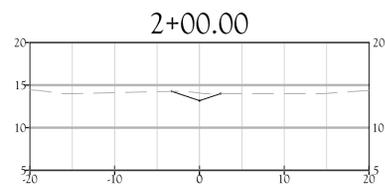
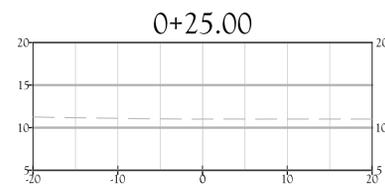
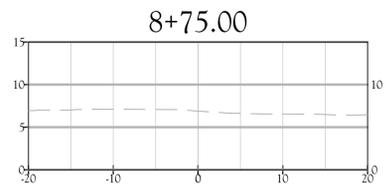
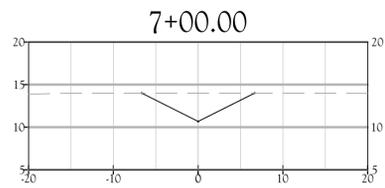
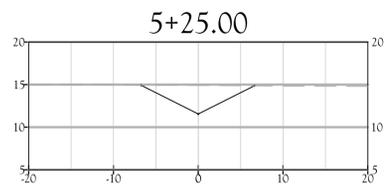
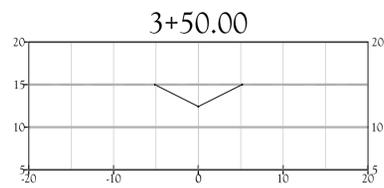
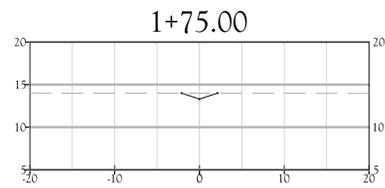
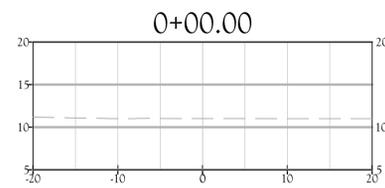
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

CHANNEL PROFILE

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REV. NO.	DESCRIPTION	DATE

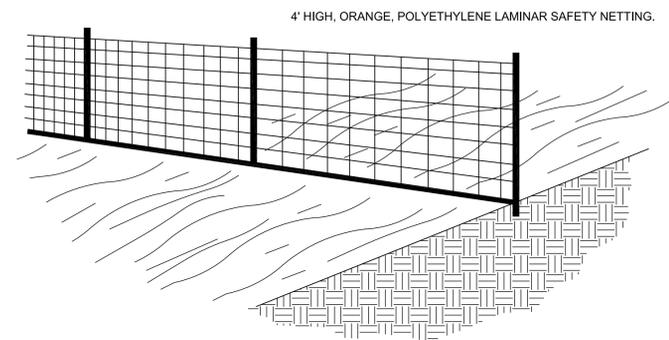
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

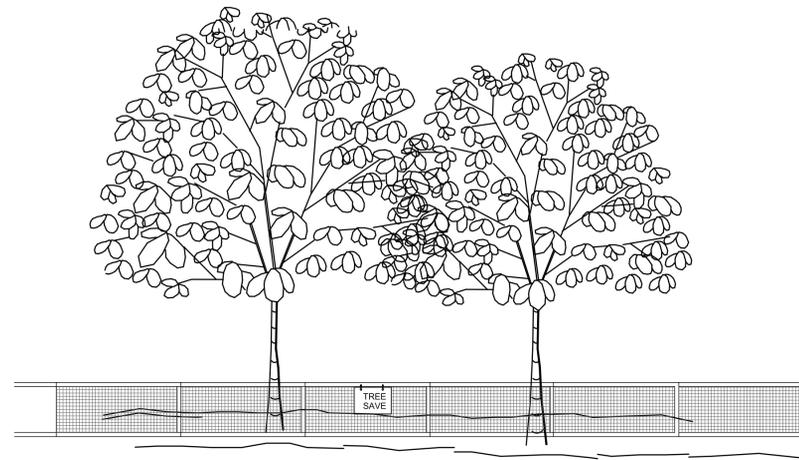
CHANNEL CROSS-SECTIONS

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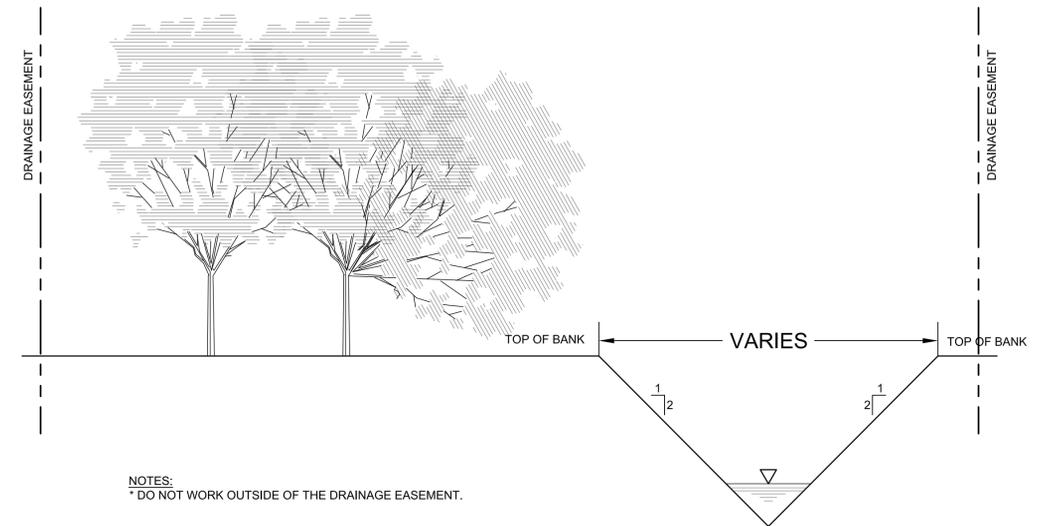
4' HIGH, ORANGE, POLYETHYLENE LAMINAR SAFETY NETTING.

TREE PROTECTION FENCING
NOT TO SCALE



4' HIGH, ORANGE, POLYETHYLENE, LAMINAR SAFETY NETTING

TREE PROTECTION FENCING
NOT TO SCALE



NOTES:
* DO NOT WORK OUTSIDE OF THE DRAINAGE EASEMENT.

PROPOSED DITCH TYPICAL SECTION
NOT TO SCALE

DESCRIPTION	DATE

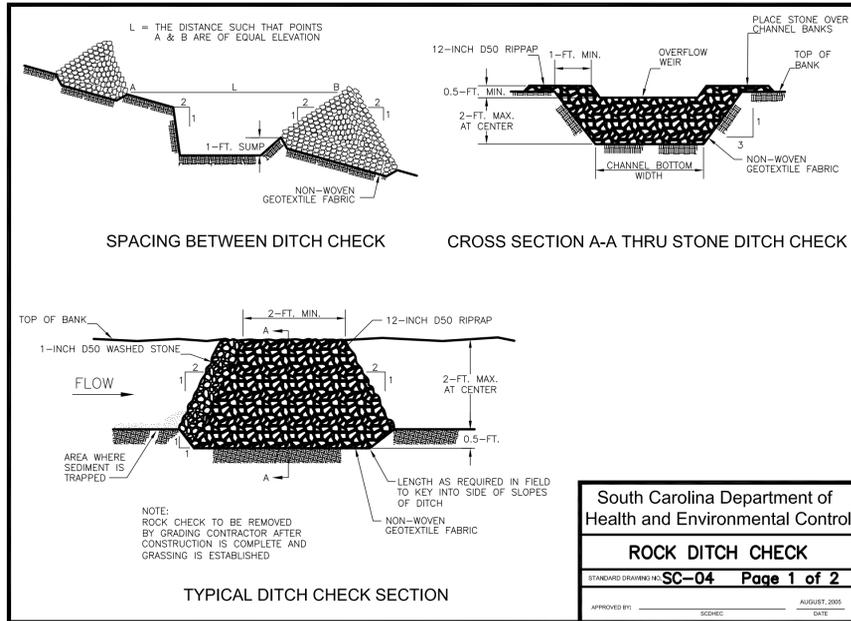
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

CONSTRUCTION DETAILS

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ROCK DITCH CHECK

When and Where to Use It

A rock ditch check should be installed in steeply sloped swales, or in swales where adequate vegetation cannot be established. Rock ditch checks should be used only in small open channels. Rock ditch checks should not be placed in waters of the commonwealth or USGS blue-line streams (unless approved by SCDHEC or Federal authorities).

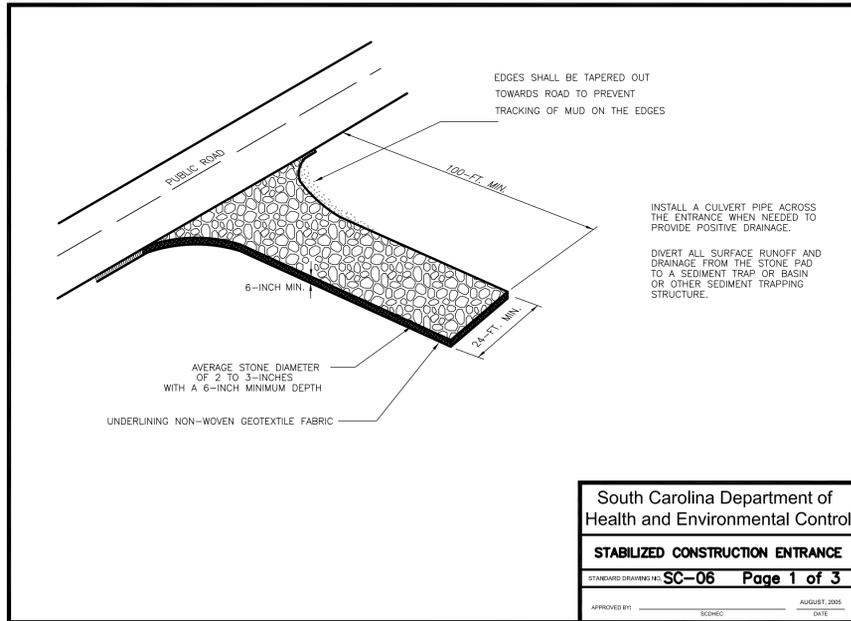
Installation:

A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face of the rock ditch check may be composed of 1-inch D50 washed stone. Rock ditch checks should not exceed a height of 2-feet at the centerline of the channel. Rock ditch checks should have a minimum top flow length of 2-feet. Stone should be placed over the channel banks to prevent water from cutting around the ditch check. The rock must be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the ditch or swale and to ensure that the center of the check is lower than the edges. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

Inspection and Maintenance:

Inspect rock ditch checks every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inches or more of precipitation. Inspect for sediment and debris accumulation. Inspect ditch check edges for erosion and repair promptly as required. Sediment should be removed when it reaches 1/3 the original check height. In the case of grass-lined ditches and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%. After construction is complete, all stone should be removed by the grading contractor if vegetation will be used for permanent erosion control measures. The area beneath the rock ditch checks should be seeded and mulched immediately after rock check dam removal.

South Carolina Department of Health and Environmental Control
ROCK DITCH CHECK
 STANDARD DRAWING NO. SC-04 Page 2 of 2
 APPROVED BY: _____ SIGNED: _____ DATE: AUGUST, 2005



STABILIZED CONSTRUCTION ENTRANCE

When and Where to Use It

Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

Important Considerations

If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by SCDHEC as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Installation:

Remove all vegetation and any objectionable material from the foundation area. Divert all surface runoff and drainage from stones to a sediment trap or basin. Install a non-woven geotextile fabric prior to placing any stone. Install a culvert pipe across the entrance when needed to provide positive drainage. The entrance shall consist of 1-inch to 3-inch D50 stone placed at a minimum depth of 6-inches. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints. The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

South Carolina Department of Health and Environmental Control
STABILIZED CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 Page 2 of 3
 APPROVED BY: _____ SIGNED: _____ DATE: AUGUST, 2005

STABILIZED CONSTRUCTION ENTRANCE

Inspection and Maintenance:

Inspect construction entrances every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inches or more of precipitation, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control. Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone. Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin. Repair any broken pavement immediately.

South Carolina Department of Health and Environmental Control
STABILIZED CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 Page 3 of 3
 APPROVED BY: _____ SIGNED: _____ DATE: AUGUST, 2005

DESCRIPTION	DATE

TOWN OF HILTON HEAD ISLAND Dept. of Public Projects & Facilities Engineering Division		RELEASED FOR	DATE
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TOWN OF HILTON HEAD ISLAND
GUM TREE ROAD OUTFALL CHANNEL
DRAINAGE IMPROVEMENTS

EROSION CONTROL DETAILS

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