



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

Project Summary: Cape Hart Circle Phase II

Project # : 2010-001                      Completed: Aug-09

Narrative Description of Project:  
 Project improved 492 L.F. of drainage system. Grubbed and cleared 350 L.F. of outfall ditch. Installed (3) catch basins. Upsized 80 L.F. of outfall pipe and (1) crossline pipe. Installed 348 L.F. of outfall pipe. In two locations, installed a total of 22 L.F. of pipe to connect the existing outfall pipe to the drainage system. Cleaned out (1) catch basin. Jetted (1) driveway pipe. Installed rip rap, sod and hydroseeded for erosion control.

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
12" HDPE Pipe	linear feet	\$4.86	20.0	\$97.20
18" HDPE Pipe	linear feet	\$8.71	480.0	\$4,180.80
18" Flared End Section	each	\$193.73	1.0	\$193.73
18" Drain Basin	each	\$924.69	1.0	\$924.69
90 Degree Elbow	each	\$165.43	1.0	\$165.43
15" Inline Drain w/ 12" Adapter	each	\$381.30	2.0	\$762.60
18X15 Tee	each	\$225.39	2.0	\$450.78
12" Coupling	each	\$27.72	7.0	\$194.04
18" Coupling	each	\$15.44	2.0	\$30.88
PVC Accessories				\$109.95
Fill Dirt	ton	\$1.00	307.6	\$307.55
Rip Rap	ton	\$47.08	11.2	\$526.35
FLBC	ton	\$26.55	13.4	\$356.83
Recycled Concrete	ton	\$1.00	14.2	\$14.18
Asphalt	ton	\$79.18	17.0	\$1,346.85
Flowable Fill	cy	\$79.18	20.0	\$1,583.60
Filter Blanket Woven	sy	\$0.63	27.8	\$17.50
Silt Fence	sy	\$0.78	66.1	\$51.57
Turf Staples	each	\$0.03	20.0	\$0.60
10-10-10 Fertilizer	bag	\$11.72	3.0	\$35.16
Hydromulch	bale	\$12.22	6.0	\$73.32
Hydromax Liquid Fertilizer	cup	\$2.54	3.0	\$7.62
Hydrogel	cup	\$2.82	3.0	\$8.46
Bermuda Hulled Grass Seed	bag	\$128.40	2.0	\$256.80
Brown Top Millet Grass Seed	bag	\$20.33	2.0	\$40.66
Centipede Sod	pallet	\$70.00	23.0	\$1,610.00
Water	gallon	\$0.01	3,050	\$30.50

**Site Photographs**

Before



During



After



**Cape Hart Circle Phase II Project Summary Cont'**

Project # : 2010-001

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
Sediment Log	each	\$32.10	1.0	\$32.10
Caution Tape	roll	\$14.55	0.8	\$10.91
4ft Flagger	each	\$0.06	10.0	\$0.60
Debris Disposal	ton	\$16.00	136.1	\$2,177.28
Tree Removal Service				\$17,250.00
Fence Installation				\$1,097.00
Gas	gallon	\$2.37	140.5	\$332.99
Diesel	gallon	\$2.37	959.0	\$2,272.83
Labor	hours		1289.5	\$45,191.16
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$81,742.52</b>

Note: Labor cost includes the employee's salary plus fringe benefits.

**Equipment Cost**

Item	Asset	Cost/Hou	Hrs.	Cost
Volvo 290 Excavator	22870	\$49.56	34.5	\$1,709.82
Komatsu Mini Excavator	23000	\$18.65	2.0	\$37.30
JCB Urban Excavator	23364	\$40.53	23.0	\$932.19
Cat Dozer	23125	\$35.50	3.0	\$106.50
JD Loader 444J	23271	\$29.75	15.0	\$446.25
JCB Backhoe	22810	\$38.64	7.0	\$270.48
Bobcat T200	22870	\$49.56	14.0	\$693.84
Bobcat T300	22847	\$20.10	11.0	\$221.10
Hydroseeder	18909	\$7.35	5.0	\$36.75
Lowboy	23118	\$34.64	3.5	\$121.24
Vacuum Truck	22812	\$20.30	10.5	\$213.15
Dump Trucks		\$16.68	194.0	\$3,235.92
Pickup Trucks		\$4.17	340.5	\$1,419.89
<b>Total Equipment Cost</b>				<b>\$9,444.43</b>

Cost/hour excludes fuel cost.

Total Cost: \$91,186.95

**Site Photographs**

Before



During



After





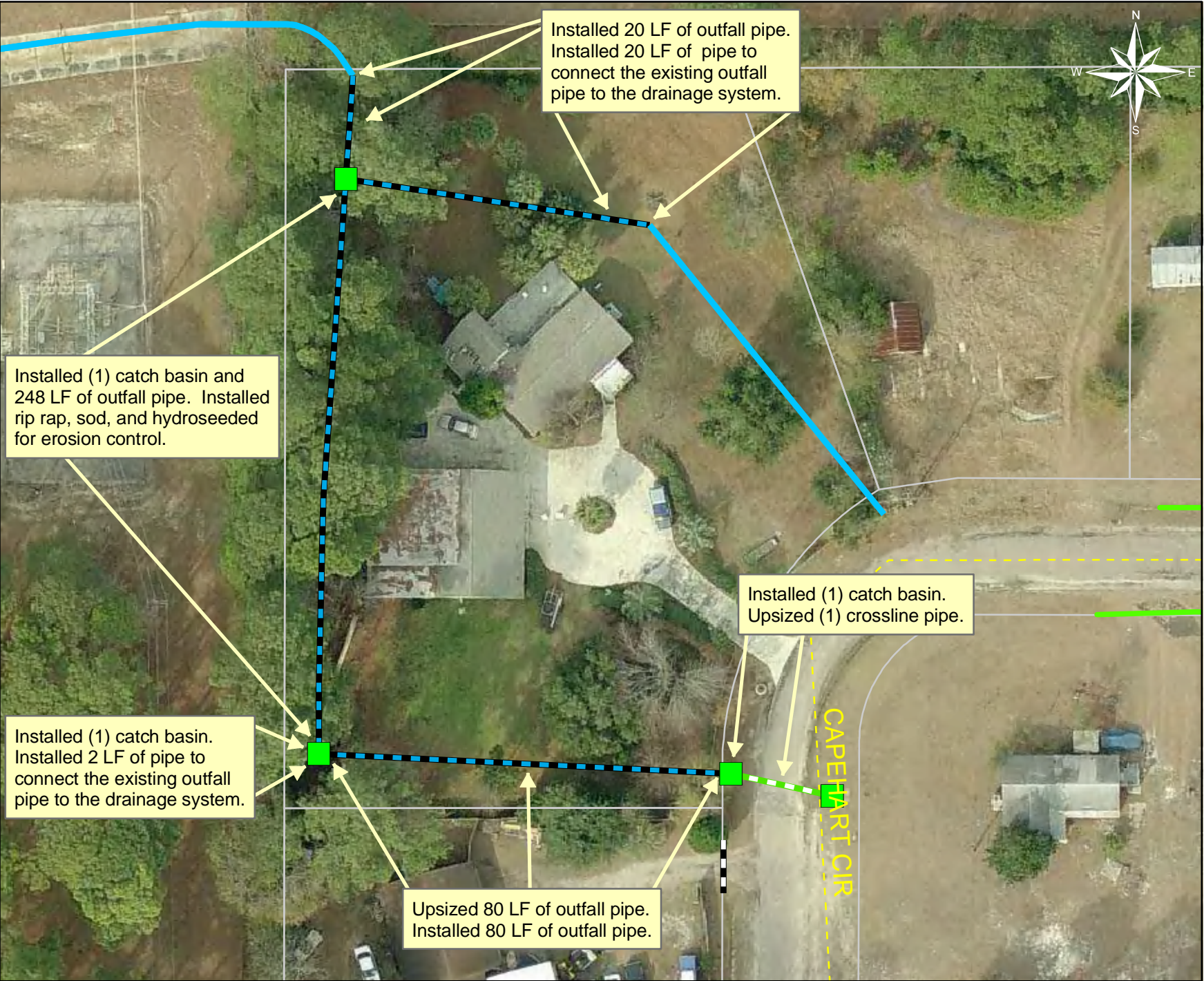
**Project: Capehart Circle Phase II Map 1**

**Activity: Drainage Improvement**

**Project #: 2010-001**

**Township: Port Royal Island**

**Completed: August 2009**



Legend	
Drainage Type	
	River
	Stream
	Outfall
	Lateral
	Roadside
	Roadside Pipe
	Crossline
	D/W
	Access
	Piped
	Bleeder



**1 inch equals 48.64 feet**



Project: Capehart Circle Phase II  
Map 2

Activity: Drainage Improvement












Project #:  
2010-001

Township: Port  
Royal Island

Completed:  
August 2009

**Legend**

**Drainage Type**

-  River
-  Stream
-  Outfall
-  Lateral
-  Roadside
-  Roadside Pipe
-  Crossline
-  D/W
-  Access
-  Piped
-  Bleeder

Grubbed and cleared  
248 LF of workshelf.

Grubbed and cleared  
102 LF of workshelf.

Cleaned out (1) catch basin.  
Jetted (1) driveway pipe.

CAPEHART CIR



1 inch equals 48.64 feet