



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: CoB - Battery Shores Phase III

Project #: 2009-110B Completed: Jul-09

Narrative Description of Project:
 Project improved 506 L.F. of drainage system. Cleaned out 140 L.F. of roadside ditch. Replaced 60 L.F. of outfall pipe. Installed 190 L.F. of outfall pipe, 20 L.F. of roadside pipe and 20 L.F. of pipe to connect the existing outfall pipe to the drainage system. Extended (1) driveway pipe. Upsized single crossline pipe to twin crossline pipes. Cleaned out and reworked (1) catch basin. Jetted twin crossline pipes, (2) driveway pipes and 220 L.F. of outfall pipe. Repaired washouts. Installed rip rap, sod, handseeded 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	20.0	\$174.20
30" HDPE Pipe	linear feet	\$21.20	40.0	\$848.00
36" HDPE Pipe	linear feet	\$26.41	240.0	\$6,338.40
24" RCP Pipe	linear feet	\$16.42	112.0	\$1,839.04
5x5 Catch Basin	each	\$1,196.05	1.0	\$1,196.05
PVC Accessories				\$75.15
Fill Dirt	ton		511.7	No Charge
Rip Rap	ton	\$47.62	33.6	\$1,597.65
FLBC	ton	\$26.62	10.1	\$268.33
#57 Stone	ton	\$36.09	54.6	\$1,970.51
Asphalt	ton	\$79.18	10.0	\$794.97
Flowable Fill	cy	\$79.18	35.0	\$2,771.30
Silt Fence	sy	\$0.78	105.0	\$81.90
Filter Blanket Woven	sy	\$0.63	194.4	\$122.50
Turf Staples	each	\$0.03	130.0	\$3.90
Masonry Cement	bag	\$6.55	17.0	\$111.35
Hydraulic Cement	bucket	\$69.55	1.0	\$69.55
Concrete Brick	each	\$0.31	155.0	\$48.05
All Purpose Sand	bag	\$3.80	16.0	\$60.80
10-10-10 Fertilizer	bag	\$12.83	2.0	\$25.66
Hydromulch	bales	\$12.22	4.0	\$48.88
Hydromax Liquid Fertilizer	cup	\$2.54	2.0	\$5.08
Hydrogel	cup	\$2.82	2.0	\$5.64

Site Photographs

Before



During



After



CoB - Battery Shores Phase III Project Summary Cont

Project #: 2009-110

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Bermuda Grass Seed	bag	\$128.40	4.0	\$513.60
Centipede Sod	pallet	\$77.14	14.0	\$1,079.96
Caution Tape	roll	\$14.55	0.5	\$7.28
Pin Flag	each	\$0.06	10.0	\$0.60
Marking Paint	each	\$4.01	1.0	\$4.01
Orange Glow Flagging Tape	roll	\$4.26	0.3	\$1.07
4ft Flagger	each	\$0.34	39.0	\$13.26
Sediment Logs	each	\$42.80	2.0	\$85.60
Debris Disposal	ton	\$16.00	3.7	\$59.36
Debris Disposal	ton	\$26.00	2.7	\$69.16
Portable Toilet Service				\$130.00
Water	gallon	\$0.01	15,950	\$159.50
Gas	gallon	\$2.19	215.5	\$471.95
Diesel	gallon	\$2.15	922.5	\$1,983.38
Labor	hours		1,212	\$42,978.39
Total Cost of Materials, Rental Equip., and Labor				\$66,111.21

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

Equipment Cost

Item	Asset	Cost/Hou	Hrs.	Cost
JCB Urban Excavator	23364	\$40.53	34.0	\$1,378.02
Volvo 290 Excavator	22870	\$49.56	4.0	\$198.24
CAT Dozer	23125	\$35.50	6.0	\$213.00
Bobcat T200	22870	\$17.40	5.0	\$87.00
Bobcat T300	22847	\$20.10	27.0	\$542.70
JD Loader 444J	23271	\$29.75	14.0	\$416.50
JCB Backhoe	22810	\$36.50	7.0	\$255.50
Vacuum Truck	22812	\$20.30	38.5	\$781.55
Hydroseeder	18909	\$7.35	10.0	\$73.50
Lowboy	23118	\$34.64	2.0	\$69.28
Dump Trucks		\$16.68	251.0	\$4,186.68
Pickup Trucks		\$4.17	338.0	\$1,409.46
Total Equipment Cost				\$9,611.43

Cost/hour excludes fuel cost.

Total Cost: \$75,722.64

Site Photographs

Before



During



After



Project: CoB-
Battery Shores
Phase III
Map I
(Reimbursement)

Activity: Drainage
Maintenance












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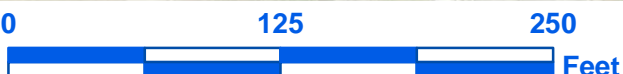
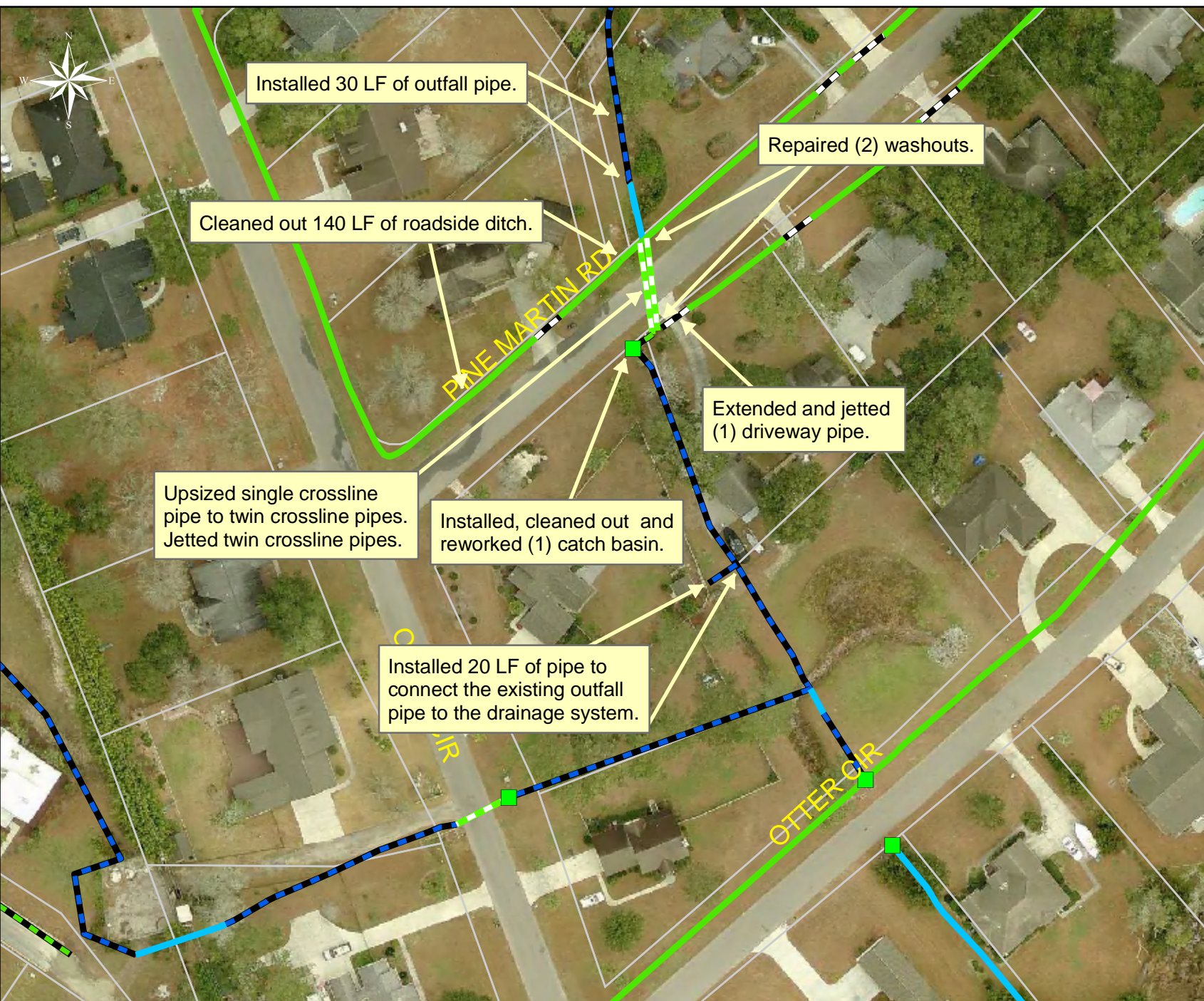
Township: City
of Beaufort

Completed:
July 2009

Legend

Drainage Type

-  Rivers
-  Streams
-  Outfall Ditch
-  Lateral
-  Roadside
-  Roadside Pipe
-  Crossline
-  Driveway
-  Access Pipe
-  Bleeder Ditch
-  Parcels



1 inch equals 88 feet

Project: CoB-
Battery Shores
Phase III
Map II
(Reimbursement)

Activity: Drainage
Maintenance












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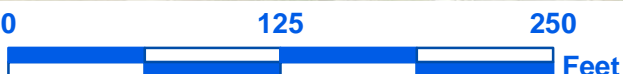
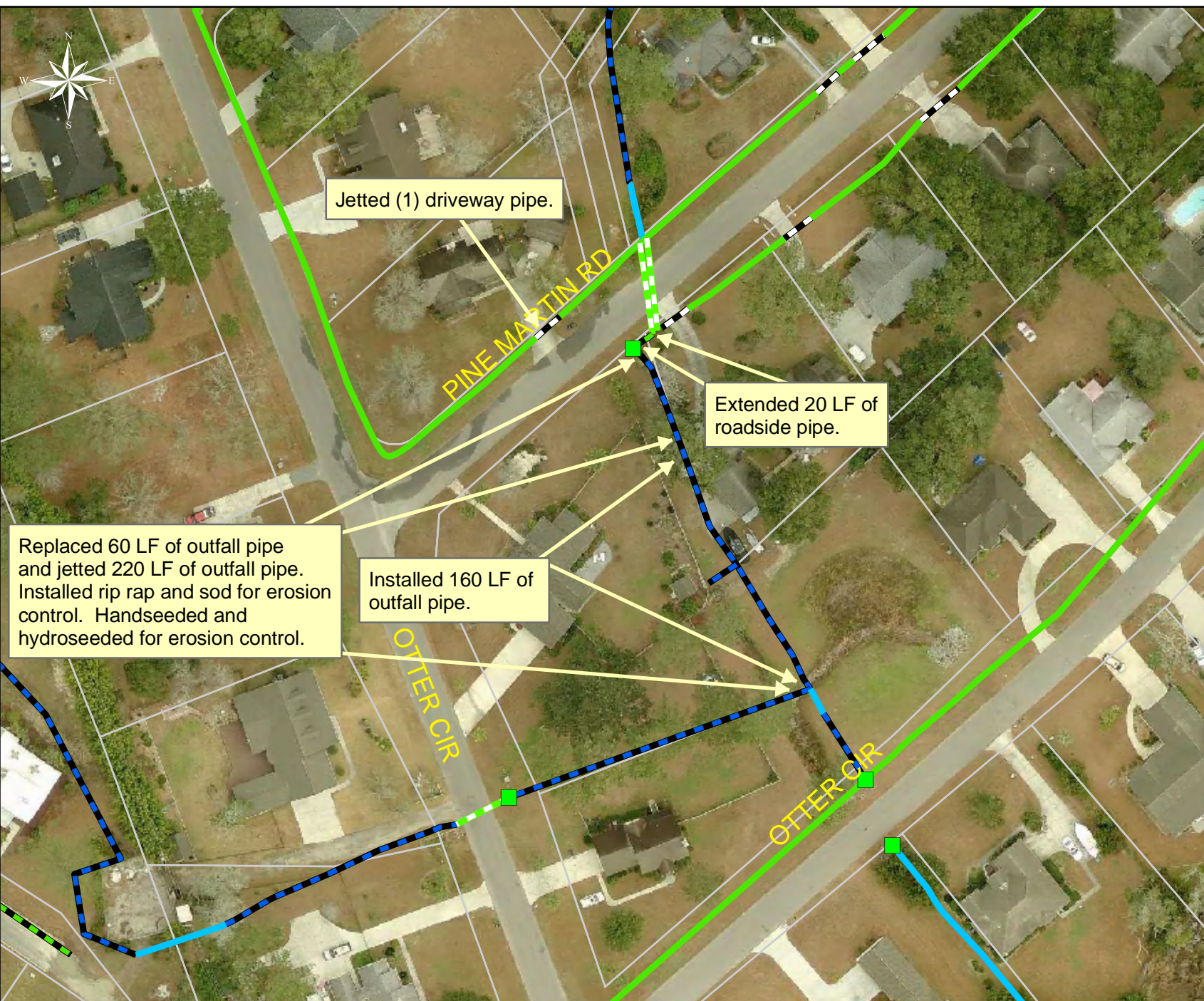
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