



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Colonial Heights - Phase II

Project #: 2011-047A

Completed: Jan-11

Narrative Description of Project:

Project improved 1,750 L.F. of drainage system. Installed 1,750 L.F. of outfall pipe. Extended (1) driveway pipe. Jetted (1) access pipe and (3) crossline pipes. 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	100.0	\$486.00
12" Perforated HDPE Pipe	linear feet	\$5.24	540.0	\$2,829.60
15" RCP Pipe	linear feet	\$9.62	16.0	\$153.92
15" Perforated HDPE Pipe	linear feet	\$9.35	360.0	\$3,366.00
18" Perforated HDPE Pipe	linear feet	\$10.70	140.0	\$1,498.00
24" Perforated HDPE Pipe	linear feet	\$14.34	620.0	\$8,890.80
12" Straight Tee	each	\$90.64	1.0	\$90.64
15" Straight Tee	each	\$135.47	1.0	\$135.47
24" Straight Tee	each	\$300.51	2.0	\$601.02
12" Split Coupling	each	\$12.67	6.0	\$76.02
24" Split Coupling	each	\$37.24	9.0	\$335.16
12" Drop-in Grate	each	\$85.03	1.0	\$85.03
12" 45 Degree Elbow	each	\$93.97	1.0	\$93.97
15" 22.5 Degree Elbow	each	\$156.17	1.0	\$156.17
24" Nyloplast Inline Drain	each	\$604.55	3.0	\$1,813.65
24" Drop-in Grates	each	\$325.29	2.0	\$650.58
30" Custom Drain Basin	each	\$1,225.15	2.0	\$2,450.30
Fill Dirt	ton	\$1.00	986.3	\$986.30
Rip Rap	ton	\$43.87	26.1	\$1,144.57
#57 Stone	ton	\$47.00	361.7	\$16,999.90
Filter Blanket	sy	\$0.63	90.3	\$56.89
Silt Fence	sy	\$0.78	1088.9	\$849.34
Turf Staples	each	\$0.03	165.0	\$4.95
Straw Mat	roll	\$45.48	1.0	\$45.48
15-0-15 Fertilizer	bag	\$10.59	5.0	\$52.95
Hydromulch	bale	\$12.22	10.0	\$122.20
Hydrogel	cup	\$2.82	5.0	\$14.10
Hydromax Liquid Fertilizer	cup	\$2.54	5.0	\$12.70

Site Photographs

Before



During



After



Colonial Heights - Phase 2 Project Summary Con't

Project #: 2011-047A

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Annual Rye Grass Seed	bag	\$19.21	6.5	\$124.87
Centipede Sod	pallet	\$85.83	15.0	\$1,287.50
Water	gallon	\$0.01	2,500	\$25.00
Marking Paint	each	\$4.44	3.0	\$13.32
4ft Flagger	each	\$0.34	29.0	\$9.86
Caution Tape	roll	\$14.55	0.3	\$3.64
Debris Disposal	ton	\$33.00	3.0	\$99.99
Portable Toilet Service				\$75.00
Fence Repair				\$989.00
Gas	gallon	\$2.79	215.6	\$601.52
Diesel	gallon	\$2.89	1,240.7	\$3,585.62
Labor	hours		\$1,824.5	\$40,020.03
Indirect Labor, Services, and Supplies				\$27,611.46
Total Cost of Materials, Rental Equip., and Labor				\$118,448.51

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

Equipment Cost

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 330 Excavator	22993	\$59.32	4.0	\$237.28
JCB Urban Excavator	23364	\$31.45	63.0	\$1,981.35
CAT Dozer	23125	\$35.50	11.0	\$390.50
JD Loader 444J	23271	\$29.75	26.5	\$788.38
Bobcat T300 (GS)	22845	\$20.10	36.0	\$723.60
Bobcat T300	22847	\$20.10	71.0	\$1,427.10
Bobcat T320	23388	\$21.00	26.0	\$546.00
Vacuum Truck	22812	\$22.16	2.0	\$44.32
Hydroseeder	23474	\$12.44	6.0	\$74.64
Dump Trucks		\$13.31	348.0	\$4,631.88
Pickup Trucks		\$4.12	522.5	\$2,152.70
Total Equipment Cost				\$12,997.75

Cost/hour excludes fuel cost.

Total Cost: \$131,446.26

Site Photographs

Before



During



After



Project: Colonial Heights Phase II
Map 1

Activity: Drainage Maintenance














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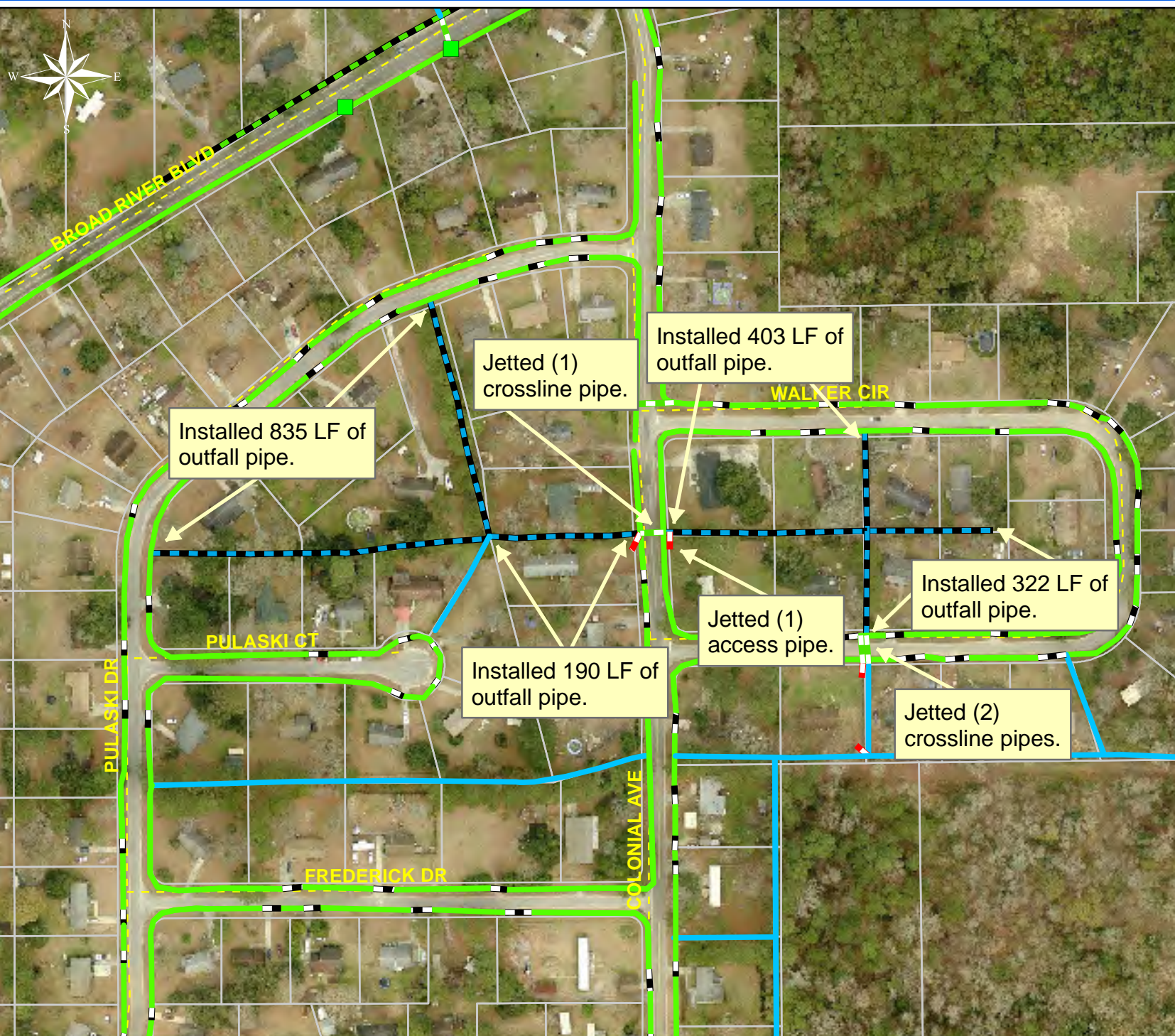
Township: Port Royal Island

Completed:
January 2011

Legend

Drainage Type

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



0 50 100 200 300 400
Feet

1 inch = 198 feet

Prepared By: BC Stormwater Management Utility
Date Print: 2/28/11

File: C:/sethdata/projects/projectmaps/Colonial Heights Ph II 2011-047A Map1

Project: Colonial Heights Phase II
Map 2

Activity: Drainage Maintenance














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2011-047A

Township: Port
Royal Island

Completed:
January 2011

Legend

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-  River
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Installed rip rap, sod, handseeded,
and hydroseeded for erosion control.

Extended (1)
driveway pipe.

Installed rip rap, sod, handseeded,
and hydroseeded for erosion control.

0 50 100 200 300 400
Feet

1 inch = 198 feet

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Date Print: 2/28/11

File: C:/sethdata/projects/projectmaps/Colonial Heights Ph II 2011-047A Map2