



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

Project Summary: Royal Pines Subdivision - Thomas Sumpter Street

Project #: 2010-167                      Completed: Mar-10

Narrative Description of Project:  
 Project improved 3,186 L.F. of drainage system. Removed debris from flowline. Dewatered to reduce pond level. Grubbed, cleared and reconstructed 230 L.F. of workshelf. Cleaned out 2,262 L.F. of outfall ditch and 520 L.F. of roadside ditch. Installed (1) bleeder pipe. Replaced (2) driveway pipes to correct elevation. Cleaned out (3) catch basins. Jetted (6) crossline pipes, (1) driveway pipe, 166 L.F. of roadside pipe and 8 L.F. of outfall 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
15" RCP Pipe	linear feet	\$9.79	48.0	\$469.92
Fill Dirt	ton	\$1.00	31.8	\$31.82
Rip Rap	ton	\$47.08	3.7	\$175.49
FLBC	ton	\$26.55	6.7	\$178.42
Asphalt	ton	\$79.92	3.4	\$271.73
Filter Blanket	sy	\$0.63	41.7	\$26.25
Silt Fence	sy	\$0.78	7.8	\$6.07
Turf Staples	each	\$0.03	95.0	\$2.85
10-10-10 Fertilizer	bag	\$11.72	5.0	\$58.60
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
Annual Rye Grass Seed	bag	\$19.21	5.0	\$96.05
Crimson Clover Grass Seed	bag	\$65.00	1.0	\$65.00
419 Bermuda Sod	pallet	\$90.00	2.0	\$180.00
Water	gallon	\$0.01	9,950	\$99.50
Pin Flag	each	\$0.06	40.0	\$2.40
Debris Disposal	ton	\$33.00	64.6	\$2,130.81
Dockline TW Premium Rope				\$15.18
Asphalt Roller Rental				\$73.69
6" Pump Rental				\$194.82
Gas	gallon	\$2.59	134.5	\$348.36
Diesel	gallon	\$2.57	750.5	\$1,928.79

**Site Photographs**

Before



During



After



**Royal Pines Subdivision-Thomas Sumpter St Project Summary Con't**

Project #: 2010-167

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

Material	Unit	Cost/Unit	Qty	Cost
Labor	hours		957.6	\$33,126.21
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$39,728.14</b>

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

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 290 Excavator	22870	\$49.56	18.0	\$892.08
Volvo 330 Excavator	22993	\$65.72	1.0	\$65.72
JCB Urban Excavator	23364	\$40.53	23.0	\$932.19
CAT Dozer	23125	\$35.50	1.0	\$35.50
JD Loader 444J	23271	\$29.75	6.0	\$178.50
Bobcat T300	22847	\$20.10	15.0	\$301.50
Lowboy	23118	\$34.64	7.5	\$259.80
Vacuum truck	22812	\$20.30	17.0	\$345.10
Hydroseeder	18909	\$7.35	4.0	\$29.40
6" Trash Pump	22798	\$5.95	12.5	\$74.38
Dump Trucks		\$16.68	109.0	\$1,818.12
Pickup Trucks		\$4.17	275.0	\$1,146.75
<b>Total Equipment Cost</b>				<b>\$6,079.04</b>

Cost/hour excludes fuel cost.

Total Cost: \$45,807.17

**Site Photographs**

Before



During



After



Project: Royal Pines  
 Subdivision - Thomas  
 Sumpter Street  
 Map 1

Activity: Drainage  
 Maintenance















Project #:  
 2010-167

Township: Lady's  
 Island

Completed:  
 March 2010

**Legend**

**Drainage Type**

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

Jetted (1) driveway pipe  
 and (1) crossline pipe.

Jetted 185 LF  
 of outfall pipe.

Cleaned out 2,262 LF of  
 outfall ditch. Installed sod  
 and hydroseeded for erosion  
 control.

Jetted (2) crossline pipes.

Replaced (2) driveway  
 pipes to correct elevation.  
 Installed rip rap for erosion  
 control.

Installed (1) bleeder pipe.

Grubbed, cleared and  
 constructed 230 LF of  
 workshelf.



1 inch = 372 feet

Project: Royal Pines  
Subdivision - Thomas  
Sumpter Street  
Map 2

Activity: Drainage  
Maintenance















Project #:  
2010-167

Township: Lady's  
Island

Completed:  
March 2010

### Legend

#### Drainage Type

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

Jetted 8 LF of  
roadside pipe.

Jetted 166 LF of roadside  
pipe. Cleaned (3) catch  
basins.

Dewatered to  
reduce level.

Jetted (2) crossline pipes.



1 inch = 261 feet

Prepared By: BC Stormwater Management Utility  
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File: C:/sethdata/projects/projectmaps/Royal Pines\_Thomas Sumpter 2010-167 Map2