



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Halifax Drive
 Project #: 2010-128 Completed: Mar-10

Narrative Description of Project:
 Project improved 3,103 L.F. of drainage system. Cleaned out 3,103 L.F. of roadside ditch. Installed (1) crossline pipe. Replaced (3) access pipes, (1) crossline pipe and (6) driveway pipes to correct elevation. Jetted (2) crossline pipes and (1) access pipe. Installed rip rap 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	40.0	\$194.40
15" RCP Pipe	linear feet	\$9.62	287.0	\$2,760.94
Fill Dirt	ton	\$1.00	196.2	\$196.20
Rip Rap	ton	\$47.08	11.2	\$526.47
#57 Stone	ton	\$34.78	34.1	\$1,186.87
#4 Stone	ton	\$36.38	13.7	\$496.59
Silt Fence	sy	\$0.78	48.6	\$37.92
Filter Blanket Woven	sy	\$0.63	141.7	\$89.25
Turf Staples	each	\$0.03	169.0	\$5.07
Masonry Type S Cement	70 lb bag	\$9.35	0.5	\$4.68
Concrete Brick	each	\$0.36	20.0	\$7.20
All Purpose Sand	bag	\$3.80	1.0	\$3.80
10-10-10 Fertilizer	bag	\$11.72	2.0	\$23.44
Hydromulch	bale	\$12.22	4.0	\$48.88
Hydrogel	cup	\$2.82	2.0	\$5.64
Hydromax Liquid Fertilizer	cup	\$2.54	2.0	\$5.08
Annual Rye Grass Seed	bag	\$19.21	2.0	\$38.42
Water	gallon	\$0.01	1,900	\$19.00
Sediment Log	roll	\$32.10	2.0	\$64.20
Straw Mat	roll	\$26.75	1.0	\$26.75
Pin Flag	each	\$0.06	40.0	\$2.40
4ft Flagger	each	\$0.34	32.0	\$10.88
Marking Paint	can	\$4.44	3.0	\$13.32
Caution Tape	roll	\$14.55	0.4	\$5.82
Gas	gallon	\$2.59	125.5	\$325.05
Diesel	gallon	\$2.57	955.0	\$2,454.35

Site Photographs

Before



During



After



Halifax Drive Project Summary Con't

Project #: 2010-128

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Labor	hours		1,375.5	\$47,313.57
Total Cost of Materials, Rental Equip., and Labor				\$55,866.17

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

Equipment Cost

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 330 Excavator	22993	\$65.72	3.0	\$197.16
Komatsu Mini Excavator	23000	\$18.65	60.5	\$1,128.33
JCB Urban Excavator	23364	\$40.53	11.0	\$445.83
JD Loader 444J	23271	\$29.75	11.5	\$342.13
JCB Backhoe	22810	\$36.50	10.5	\$383.25
JCB Backhoe (RDN)	16771	\$23.11	6.0	\$138.66
Bobcat T300	22847	\$20.10	28.0	\$562.80
Bobcat T320	23388	\$21.00	23.0	\$483.00
Lowboy	23118	\$34.64	2.0	\$69.28
Vacuum Truck	22812	\$20.30	3.0	\$60.90
Hydroseeder	18909	\$7.35	2.0	\$14.70
Dump Trucks		\$16.68	279.0	\$4,653.72
Pickup Trucks		\$4.17	385.5	\$1,607.54
Total Equipment Cost				\$10,087.29

Cost/hour excludes fuel cost.

Total Cost: \$65,953.46

Site Photographs

Before



During



After



Project: Halifax Drive Map 1

Activity: Drainage Maintenance














Project #: 2010-128

Township: St. Helena Island

Completed: March 2010

Legend

Drainage Type

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

Cleaned out 637 LF of roadside ditch.

Replaced (1) access pipe and (2) driveway pipes to correct elevation. Replaced (1) crossline pipe.

Replaced (1) access pipe. Installed (1) crossline pipe.

Cleaned out 2,254 LF of roadside ditch. Replaced (4) driveway pipes to correct elevation.

Replaced (1) access pipe. Cleaned out 212 LF of roadside ditch.



1 inch = 367 feet

Project: Halifax Drive Map 2

Activity: Vacuum Truck

Project #: 2010-128

Township: St. Helena Island

Completed: March 2010

Legend

Drainage Type

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



1 inch = 107 feet