



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

Project Summary: Middlefield Circle and Middlefield Court

Project #: 2010-154

Completed: Mar-10

Narrative Description of Project:

Project improved 8,157 L.F. of drainage system. Removed blockage from flowline. Cleaned out 200 L.F. of outfall ditch. Cleaned out 6,926 L.F. of roadside ditch. Reconstructed 1,031 L.F. of roadside ditch. Installed (2) crossline pipes and (1) driveway pipe. Replaced (1) driveway pipe to correct elevation. Jetted (4) crossline pipes, (1) access pipe and (12) driveway pipes. Installed rip rap for erosion control.

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$9.62	88.0	\$846.56
15" HDPE Pipe	linear feet	\$6.22	40.0	\$248.80
Fill Dirt	ton	\$1.00	37.1	\$37.12
Rip Rap	ton	\$47.08	11.2	\$526.47
#57 Rock	ton	\$34.78	20.5	\$712.29
Silt Fence	sy	\$0.78	17.5	\$13.65
Filter Blanket	sy	\$0.63	76.4	\$48.12
Turf Staples	each	\$0.03	115.0	\$3.45
Water	gallon	\$0.01	11,450	\$114.50
Pin Flags	each	\$0.06	28.0	\$1.68
4ft Flagger	each	\$0.34	7.0	\$2.38
Flagging Tape	roll	\$1.87	0.2	\$0.37
Gas	gallon	\$2.59	118.0	\$305.62
Diesel	gallon	\$2.57	761.0	\$1,955.77
Labor	hours		1,051	\$36,403.34
Total Cost of Materials, Rental Equip., and Labor				\$41,220.13

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

Equipment Cost

Item	Asset No.	Cost/Hou	Hrs.	Cost
Komatsu Mini Excavator	23000	\$18.65	24.0	\$447.60
JCB Urban Excavator	23364	\$40.53	30.0	\$1,215.90
JD Loader 444J	23271	\$29.75	11.0	\$327.25
JCB Backhoe	22810	\$36.50	29.0	\$1,058.50

Site Photographs

Before



During



After



Middlefield Circle and Middlefield Court Project Summary Con't

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Equipment Cost

Item	Asset No.	Cost/Hou	Hrs.	Cost
Bobcat T300	22847	\$20.10	3.0	\$60.30
Bobcat T320	23388	\$21.00	7.0	\$147.00
Vacuum Truck	22812	\$20.30	27.0	\$548.10
Dump Trucks		\$16.68	237.0	\$3,953.16
Pickup Trucks		\$4.17	260.5	\$1,086.29
Total Equipment Cost				\$8,844.10

Cost/hour excludes fuel cost.

Total Cost: \$50,064.23

Site Photographs

Before



During



After



Project: Middlefield Circle/Middlefield Court Map 1

Activity: Drainage Maintenance

Project #: 2010-154

Township: Sheldon

Completed: March 2010

Legend

Drainage Type

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



0 125 250 500 750 1,000 Feet

1 inch equals 305 feet

Prepared By: BC Stormwater Management Utility

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File: C:\sethdata\project\projectmap\Middlefield Cir Ct 2010-154

Project: Middlefield Circle/Middlefield Court Map 2

Activity: Vacuum Truck

Project #: 2010-154

Township: Sheldon

Completed: March 2010

Legend

Drainage Type

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



1 inch equals 305 feet