



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

Project Summary: Middle River Road

Project #: 2009-125                      Completed: Aug-09

Narrative Description of Project:  
 Project improved 557 L.F. of drainage system. Cleaned out 225 L.F. of roadside ditch. Replaced (2) driveway pipes with 72 L.F. of roadside pipe. Installed (2) catch basins. Installed 260 L.F. of outfall pipe and (1) crossline pipe. Installed rip rap and sod for erosion control.

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

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$10.38	72.0	\$747.36
18" RCP Pipe	linear feet	\$12.41	24.0	\$297.84
18" HDPE Pipe	linear feet	\$8.71	260.0	\$2,264.60
3x3 Catch Basin	each	\$667.04	2.0	\$1,334.08
Fill Dirt	ton	\$1.00	23.9	\$23.86
Rip Rap	ton	\$47.62	14.9	\$710.01
FLBC	ton	\$26.62	26.9	\$715.55
Silt Fence w/ Stakes	sy	\$0.49	17.9	\$8.77
Silt Fence	sy	\$0.78	60.3	\$47.02
Filter Blanket Woven	sy	\$0.63	55.6	\$35.00
Turf Staples	each	\$0.03	65.0	\$1.95
Masonry Type S Cement	bag	\$9.35	6.0	\$56.10
Concrete Brick	each	\$0.36	90.0	\$32.40
All Purpose Sand	bag	\$3.80	10.0	\$38.00
St Augustine Sod	pallet	\$95.00	10.0	\$950.00
Centipede Sod	pallet	\$85.00	7.0	\$595.00
Caution Tape	roll	\$10.45	0.3	\$2.61
4ft Flagger	each	\$0.34	10.0	\$3.40
Septic Tank Service				\$325.00
Water	gallon	\$0.01	1,500	\$15.00
Gas	gallon	\$2.37	75.0	\$177.75
Diesel	gallon	\$2.37	276.0	\$654.12
Labor	hours		720.5	\$24,714.75
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$33,750.17</b>

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

**Site Photographs**

Before



During



After



**Middle River Road Project Summary Cont**

Project #: 2009-125

**Equipment Cost**

Item	Asset	Cost/Hou	Hrs.	Cost
Komatsu Mini Excavator	23000	\$18.65	6.0	\$111.90
JCB Urban Excavator	23364	\$40.53	19.0	\$770.07
Bobcat T200	22782	\$17.40	7.5	\$130.50
Bobcat T300	22847	\$20.10	16.0	\$321.60
JD Loader 444J	23271	\$29.75	10.0	\$297.50
Hydroseeder	18909	\$7.35	2.0	\$14.70
Dump Trucks		\$16.68	80.0	\$1,334.40
Pickup Trucks		\$4.17	214.0	\$892.38
<b>Total Equipment Cost</b>				<b>\$3,873.05</b>

Cost/hour excludes fuel cost.

Total Cost: \$37,623.22

**Site Photographs**

Before



During



After





Project: Middle River Road  
Map 1

Activity: Ditch Maintenance













Project #:  
2009-125

Township: Port  
Royal Island

Completed:  
August 2009

**Legend**

**Drainage Type**

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

Cleaned out 40 LF  
of roadside ditch.

Installed (1) catch basin and  
260 LF of outfall pipe. Installed  
rip rap and sod for erosion control.

Installed (1) catch basin and  
(1) crossline pipe. Cleaned out  
185 LF of roadside ditch.

MIDDLE RIVER RD

DAVIDSON RD



1 inch equals 88 feet

Project: Middle River Road  
Map 2

Activity: Ditch Maintenance













Project #:  
2009-125

Township: Port  
Royal Island

Completed:  
August 2009

**Legend**

**Drainage Type**

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



Replaced (2) driveway pipes  
with 72 LF of roadside pipe.

MIDDLE RIVER RD

DAVIDSON RD



1 inch equals 88 feet