



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

Project Summary: Audobon Woods Subdivision Phase I & II

Project #: 2008-105                      Completed: Jul-09

Narrative Description of Project:  
Project improved 7,118 L.F. of drainage system. Bush hogged 72 L.F. of roadside ditch. Grubbed, cleared and cleaned out 110 L.F. of outfall ditch. Cleaned out 6,631 L.F. of roadside ditch. Installed 290 L.F. of outfall pipe, (1) bleeder pipe, 15 L.F. of roadside pipe and (2) access pipes. Installed (1) catch basin. Upsized (19) driveway pipes to correct elevation. Repaired (2) crossline pipes and (2) washouts. Jetted (7) crossline pipes and (33) driveway pipes. Installed rip rap, sod, handseeded and hydroseeded for erosion control.

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

| Material                   | Unit        | Cost/Unit | Qty    | Cost       |
|----------------------------|-------------|-----------|--------|------------|
| 4" Flex Pipe               | linear feet | \$16.77   | 24.0   | \$402.48   |
| 15" RCP Pipe               | linear feet | \$9.00    | 480.0  | \$4,320.00 |
| 24" RCP Pipe               | linear feet | \$16.42   | 24.0   | \$394.08   |
| 15" HDPE Pipe              | linear feet | \$6.22    | 20.0   | \$124.40   |
| 24" HDPE Pipe              | linear feet | \$13.89   | 300.0  | \$4,167.00 |
| PVC Accessories            | each        | \$1.39    | 1.0    | \$1.39     |
| 3x3 Catch Basin            | each        | \$667.04  | 1.0    | \$667.04   |
| Fill Dirt                  | ton         | \$1.00    | 522.3  | \$522.30   |
| Rip Rap                    | ton         | \$47.17   | 41.0   | \$1,934.91 |
| #57 Stone                  | ton         | \$39.50   | 13.7   | \$541.15   |
| Asphalt                    | ton         | \$89.64   | 2.2    | \$192.73   |
| FLBC                       | ton         | \$29.00   | 40.3   | \$1,169.28 |
| Filter Blanket Woven       | sy          | \$0.63    | 365.3  | \$230.13   |
| Turf Staples               | each        | \$0.03    | 346.0  | \$10.38    |
| Silt Fence                 | sy          | \$0.63    | 134.2  | \$84.53    |
| Concrete Bricks            | each        | \$0.33    | 36.0   | \$11.88    |
| Type S Cement              | 75 lb. bag  | \$10.56   | 7.0    | \$73.92    |
| All Purpose Sand           | 50 lb. bag  | \$3.80    | 6.5    | \$24.70    |
| 10-10-10 Fertilizer        | bag         | \$14.55   | 8.0    | \$116.40   |
| Hydromulch                 | bale        | \$16.75   | 14.0   | \$234.50   |
| Hydromax Liquid Fertilizer | cup         | \$2.93    | 7.0    | \$20.51    |
| Annual Rye Grass           | bag         | \$29.35   | 8.0    | \$234.80   |
| Water                      | gallon      | \$0.01    | 23,500 | \$235.00   |

**Site Photographs**

Before



During



After



**Audobon Woods Phase I & II Project Summary Con't**

Project # 2008-105

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

|  |         |         |         |                     |
|--|---------|---------|---------|---------------------|
| Centipede Sod  | Pallett | \$73.03 | 16.5    | \$1,205.00          |
| Wheat Straw  | Bale    | \$6.36  | 4.0     | \$25.44             |
| Pin Flags  | each    | \$0.06  | 176.0   | \$10.56             |
| 4ft Flagger  | each    | \$0.34  | 9.0     | \$3.06              |
| Marking paint  | can     | \$4.01  | 36.0    | \$144.36            |
| Caution Tape   | roll    | \$10.45 | 0.2     | \$2.09              |
| Debris Disposal  | ton     | \$16.00 | 33.3    | \$532.16            |
| Gas  | gallon  | \$2.19  | 209.0   | \$457.71            |
| Diesel   | gallon  | \$2.15  | 1,211.1 | \$2,603.87          |
| Labor  | hours   |         | 3,263   | \$114,166.40        |
| <b>Total Cost of Materials, Rental Equip., and Labor</b> |         |         |         | <b>\$134,864.15</b> |

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

**Equipment Cost**

| Item                        | Asset | Cost/Hou | Hrs.    | Cost               |
|-----------------------------|-------|----------|---------|--------------------|
| Komatsu Mini Excavator      | 23000 | \$18.65  | 151.0   | \$2,816.15         |
| Komatsu Urban Excavator     | 19325 | \$37.50  | 38.0    | \$1,425.00         |
| Bush Hog                    | 22822 | \$38.64  | 2.0     | \$77.28            |
| Bobcat T200                 | 22782 | \$17.40  | 33.0    | \$574.20           |
| Bobcat T300                 | 22787 | \$20.10  | 2.0     | \$40.20            |
| JCB Backhoe                 | 22810 | \$36.50  | 65.0    | \$2,372.50         |
| Hydroseeder                 | 18909 | \$10.70  | 19.0    | \$203.30           |
| Vacuum Truck                | 22812 | \$20.30  | 47.5    | \$964.25           |
| Dump Trucks                 |       | \$16.68  | 508.0   | \$8,473.44         |
| Pickup Trucks               |       | \$5.43   | 1,056.5 | \$5,736.80         |
| <b>Total Equipment Cost</b> |       |          |         | <b>\$22,683.12</b> |

Cost/hour excludes fuel cost.

Total Cost: \$157,547.26

**Site Photographs**

Before



During



After





Project: Audobon Woods Ph I&II  
Map 1

Activity: Drainage Improvement

Project#: 2008-105

Township: Port Royal Island

Completed : July 2009



**Legend**

**Drainage Type**

- Rivers
- Streams
- Outfall Ditch
- Lateral
- Roadside
- Roadside Pipe
- Road Crossing
- Driveway Culverts
- Access Pipe
- Piped Ditch
- Bleeder Ditch
- Upsized D/W (19)
- ▲ Rip Rap Basins (12)
- Easements



1 inch equals 170 feet

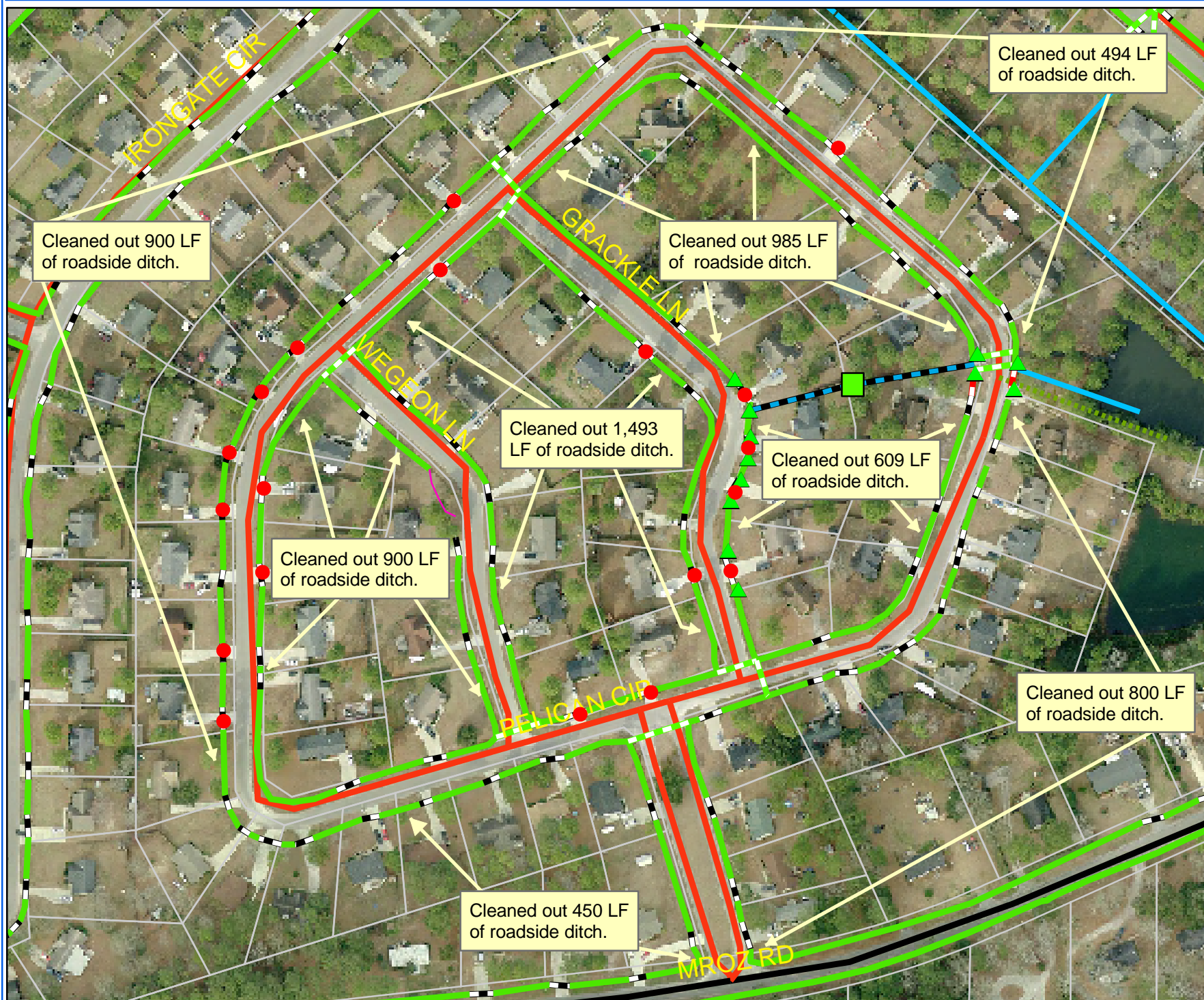
Project: Audobon Woods Ph I&II  
Map 2

Activity: Drainage Improvement

Project#: 2008-188

Township: Port Royal Island

Completed : July 2008



**Legend**

- Parcels
- Drainage Type**
- Rivers
- Streams
- Outfall Ditch
- Lateral
- Roadside
- Road Crossing
- Driveway Culverts
- Access Pipe
- Piped Ditch
- Bleeder Ditch
- Upsized D/W (19)
- Rip Rap Basins (12)



1 inch equals 170 feet