



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

Project Summary: L.H. Nelson Drive/Hale Street

Project #: 2009-114                      Completed: Apr-09

Narrative Description of Project:  
Project improved 4,935 L.F. of drainage system. Grubbed 250 L.F. of workshelf. Cleaned out 1,589 L.F. of outfall ditch and 3,346 L.F. of roadside ditch. Installed twin crossline pipes, twin access pipes and (1) access pipe. Upsized (1) driveway pipe, replaced (4) driveway pipes and reinstalled (1) access pipe to correct elevation. Repaired washout. Installed rip rap, handseeded and hydroseed for erosion control.

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

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$9.79	112.0	\$1,096.48
36" RCP Pipe	linear feet	\$26.41	64.0	\$1,690.24
18" HDPE Pipe	linear feet	\$8.71	100.0	\$871.00
Fill Dirt	ton	\$1.00	209.5	\$209.50
Rip Rap	ton	\$47.62	22.4	\$1,065.26
#57 Stone	ton	\$37.29	3.4	\$127.16
Filter Blanket	sy	\$0.63	111.1	\$70.00
Turf Staples	each	\$0.03	170.0	\$5.10
Silt Fence	sy	\$0.24	46.7	\$11.21
10-10-10 Fertilizer	bag	\$12.83	1.0	\$12.83
Hydromulch	bale	\$16.75	2.0	\$33.50
Hydromax Liquid Fertilizer	cup	\$2.54	1.0	\$2.54
Hydrogel	cup	\$2.82	1.0	\$2.82
Annual Rye Grass Seed	bag	\$46.92	2.0	\$93.84
Water	gallon	\$0.01	500.0	\$5.00
Pin Flag	each	\$0.06	75.0	\$4.50
4ft Flagger	each	\$0.34	10.0	\$3.40
Caution Tape	roll	\$10.45	0.3	\$2.61
Marking Paint	can	\$4.01	2.0	\$8.02
Excavator Rental				\$217.57
Gas	gallon	\$1.84	108.0	\$198.72
Diesel	gallon	\$1.87	814.5	\$1,523.12
Labor	hours		1,228.5	\$41,662.06
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$48,916.47</b>

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

**Site Photographs**

Before



During



After



Site Photographs

**L.H. Nelson Drive/Hale Street Project Summary Con't**

Project #: 2009-114

**Equipment Cost**

Item	Asset	Cost/Hou	Hrs.	Cost
Volvo 290 Excavator	22870	\$49.56	24.0	\$1,189.44
Komatsu Mini Excavator	23000	\$18.65	42.5	\$792.63
Komatsu Urban Excavator	19325	\$37.50	32.5	\$1,218.75
Bobcat T200	22782	\$17.40	6.0	\$104.40
Bobcat T300	22847	\$20.10	25.0	\$502.50
John Deere Loader 444J	23271	\$29.75	6.0	\$178.50
Hydroseeder	18909	\$10.70	1.5	\$16.05
Lowboy	23118	\$34.64	3.0	\$103.92
Dump Trucks		\$16.68	308.5	\$5,145.78
Pickup Trucks		\$5.43	316.5	\$1,718.60
<b>Total Equipment Cost</b>				<b>\$10,970.56</b>

Cost/hour excludes fuel cost.

\$59,887.03

Before



During



After



Project: L.H. Nelson Drive/ Hale Drive Map1

Activity: Ditch Maintenance

Project #: 2009-114

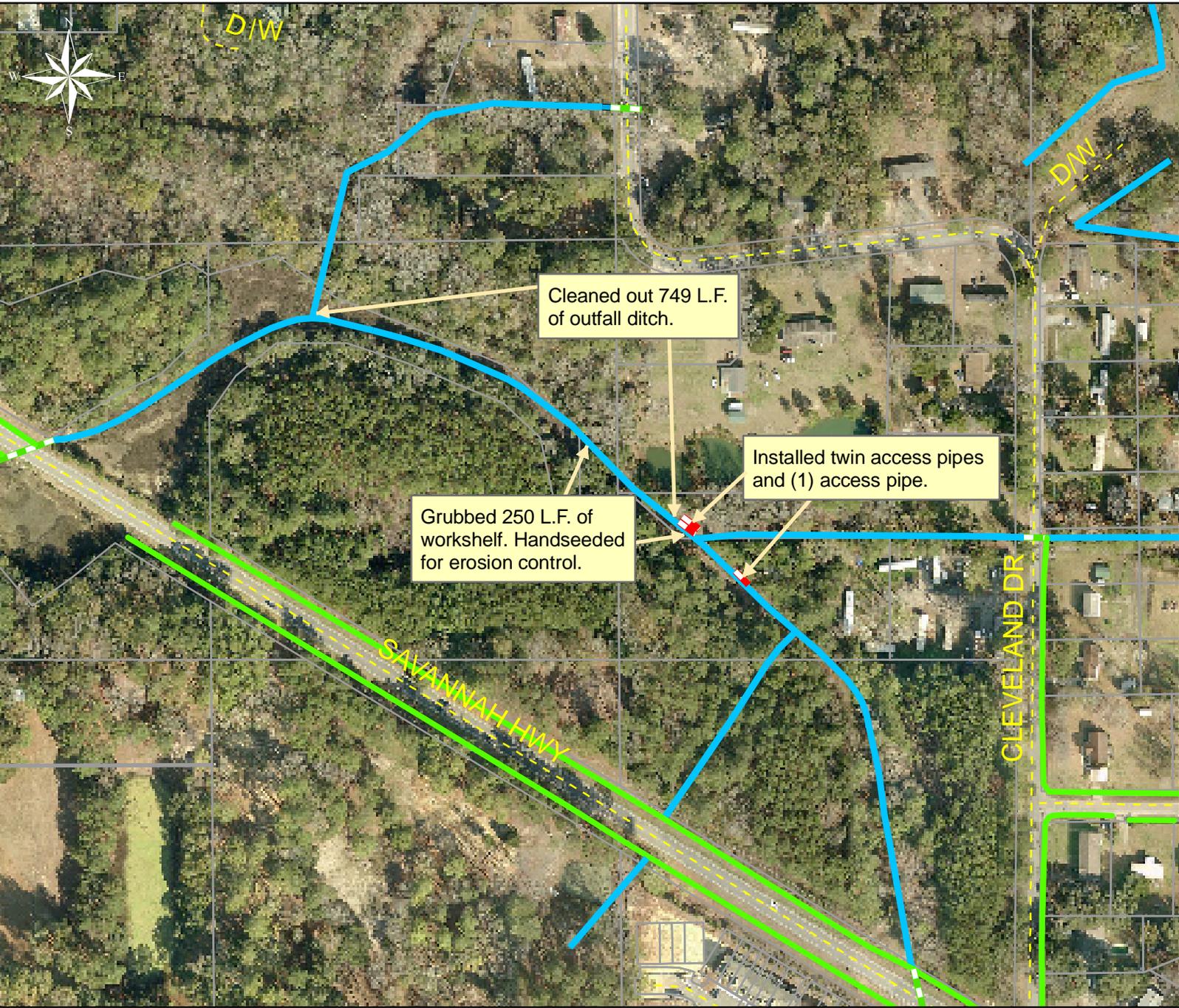
Township: Port Royal Island

Completed: April 2009

**Legend**

**Drainage Type**

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



1 inch equals 228.34 feet

Project: L.H.  
Nelson Drive/  
Hale Drive Map 2

Activity: Ditch  
Maintenance

Project #:  
2009-114

Township:  
Port Royal Island

Completed:  
April 2009

### Legend

#### Drainage Type

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



1 inch equals 225.54 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/30/10

File: C:\sethdata\project\projectmaps\LH Nelson\Hale Dr map2\_2009\_114

Project: L.H.  
Nelson Drive/  
Hale Drive Map 3

Activity: Ditch  
Maintenance

Project #:  
2009-114

Township:  
Port Royal Island

Completed:  
April 2009

### Legend

#### Drainage Type

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

Cleaned out 485 L.F. of roadside ditch.  
Re-installed (1) access pipe to correct elevation.  
Repaired washout. Installed rip rap for erosion control.

Cleaned out 840 L.F. of outfall ditch.

Cleaned out 340 L.F. of roadside ditch.

Cleaned out 80 L.F. of roadside ditch.



1 inch equals 224.55 feet