

Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: Forrest Field Road

Project #: 2009-073 Completed:Mar-09

Narrative Description of Project:

Project improved 5,262 L.F. of outfall ditch and workshelf. Bush hogged 150 L.F. of outfall ditch. Reconstructed 4,962 L.F. of workshelf and 5,112 L.F. of outfall ditch. Installed (8) access pipes, and (8) bleeder pipes to correct elevation. Cleaned out (1) catch basin. Jetted 88 L.F. of outfall pipe and 218 L.F. of roadside 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		\$1,409.40
24" HDPE Pipe	linear feet	\$13.89	80.0	\$1,111.20
36" HDPE Pipe	linear feet	\$26.41	160.0	\$4,225.60
16ft Gate	each	\$235.35	5.0	\$1,176.75
Gate Accessories				\$87.29
Fill Dirt	ton	\$1.00	312.9	\$312.85
Rip Rap	ton	\$49.22	78.3	\$3,852.94
Recycled Concrete	ton	\$1.00	269.33	\$269.33
Filter Blanket Woven	sy	\$0.63	231.9	\$146.12
Turf Staples	each	\$0.03	210.0	\$6.30
Silt Fence	sy	\$0.24	35.8	\$8.59
Quickrete Concrete	bag	\$3.19	6.0	\$19.14
10-10-10 Fertilizer	bag	\$14.55	15.5	\$225.53
Hydrogel	cup	\$2.82	15.5	\$43.71
Hydromulch	bale	\$16.75	31.0	\$519.25
Hydromax Liquid Fertilizer	bag	\$2.93	15.5	\$45.42
Annual Rye Grass Seed	50lb bag	\$29.85	15.5	\$462.68
Water	gallon	\$0.01	9,500	\$95.00
Pin Flags	each	\$0.06	48.0	\$2.88
Caution Tape	roll	\$0.04	120.0	\$4.80
Debris	ton	\$16.00	66.7	\$1,067.84
Gas	gallon	\$1.81	192.0	\$347.52
Diesel	gallon	\$1.66	1,775.5	\$2,947.33
Labor	hours		1,964	\$69,427.28
Total Cost of Materials, R	\$87,814.74			

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

Site Photographs

Before



During



After



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Equipment Cost

Item	Asset	Cost/Hou	Hrs.	Cost	
Cat 325 Excavator	16649	\$58.61	157.0	\$9,201.77	
Komatsu Mini Excavator	23000	\$18.65	6.0	\$111.90	
Komastu Urban Excavator	19325	\$37.50	4.0	\$150.00	
Bobcat T200	22782	\$17.40	29.0	\$504.60	
Bobcat T300	22847	\$20.10	3.0	\$60.30	
Cat Dozer	23125	\$35.50	63.0	\$2,236.50	
John Deere Loader 444J	23271	\$29.75	1.0	\$29.75	
JCB Backhoe	22810	\$36.50	3.5	\$127.75	
Hydroseeder	18909	\$10.70	19.0	\$203.30	
Vacuum Truck	22812	\$20.30	5.5	\$111.65	
Lowboy	23118	\$34.64	3.0	\$103.92	
Dump Trucks		\$16.68	385.5	\$6,430.14	
Pickup Trucks		\$5.43	523.0	\$2,839.89	
Total Equipment Cost	\$22,111.47				

Cost/hour excludes fuel cost.

Total Cost: \$109,926.21

Site Photographs



During

Before



After











