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Plumbline Corp. P.A.

121 Washington St
Weldon NC 27890
252 536 0203

RECEIVED AUG 18 2008 SOLID WASTE SECTION

8/8/08
To:
Ed Mussler
DEHNR Office of Solid Waste Management
1646 Mail Service Center
Raleigh NC 27605

Subject: Coal Combustion Fly ash Use – Halifax County. Highway 125 NC

Dear Mr. Mussler Mary Whaley, others

By Copy of this letter Wayne Long owner of the subject property requests to use coal fly ash as structural fill on a project to be known as the Wayne Long Mini Storage project. The Property is located in the Town of Halifax NC along US 125. In Accordance with Section .1703 a, we submit the following information:

1. The Location of the Fly ash is shown on the attached plans. Halifax Quadrangle :
   a. Lat 36.20 20.38 Lon 77.36.05.29 36.33879 77.60147
2. The usage of the material will begin as soon as approval is received and should be completed by December 30,2009
3. The estimated volume is 111,523 cy
4. TCLP analysis is attached
5. The Signed and dated statement by the owners of the land on which the structural fill is to be placed is attached.
6. (a) The generator of this material is Roanoke Valley Energy
   29 Power Place, Weldon
   POB 351, Weldon NC 27890
   ~~Glen Outlaw~~ Glenn Outland
   252 536 3200
   glenn.outland@pwrops.com

Attached is an approval letter for the erosion control plan from NCDEHNR dated July 2 2008 submitted by Plumbline Corp.PA. Also attached is the water table study indicating adequate separation required by .1704 (3). The other requirements of .1704 have also been met.

In summary this request for coal combustion byproduct use intention is to fill the adjoining low spot next to highway in order to bring the entire project site to grade.

Thank you
Russ Grant Plumbline Corp.

E.B. GRANT P.E.
Professional Engineer 4402
Registered Land Surveyor
NC PLS No. L-1592

RECEIVED
AUG 18 2008
SOLID WASTE SECTION

Wayne Long Mini Storage Project

Prepared by Plumbline Corp P.A.

8/8/2008

REV 1

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- Soils Report
- 100-Year Flood Zone Map

Description and Vicinity Map

8/08/2008

Notification and Siting Requirements for

Proposed Coal Combustion By-Product Structural Fill Project
Wayne Long Mini Storage

Notification (.1703)

Description:

The name of this proposed project is the Wayne Long Mini storage, and is located in Halifax County near the town of Halifax on NC Hwy 125. This project is in a rural area the surrounding this land and the surrounding land are farms and timberland. This purpose of the project is to utilize coal combustion by-products as structural fill to construct a building pad for a Mini storage facility for a private developer. .

The existing zoning for the site, as determined by Halifax County, is agricultural residential (Listed as AR). An application has been submitted to Town of Halifax to notify them of the intended use..

The structural fill building site will consist of 11.52 acres, of the 20.2 acre property. This area sparsely vegetated with volunteer pines about 9 yeas old. The site is an old railroad corridor that was not used and subsequently sold to Mr. W. Long. Upon completion of the intended project, the Developer will receive a building pad for a mini storage and future development with significant road frontage. More detail is included in the narrative and plans of the erosion control plan.

The estimated schedule to complete the structural fill project is 10.5 months. A detailed construction schedule is included in the enclosed Erosion and Sedimentation Control Plan for the project.

The estimated value of the completed building site is difficult to estimate because of increasing land values in this area. The existing value is currently about $120,000. The project will allow for an increase in the tax base.

This project does not involve the Department of Transportation.

Estimated Volume:

The estimated volume of fill is _111,524 cubic yards. The project building site will take approximately 11.52 acres of the entire 20.20 acre site.

TCLP Test Results:

The results of the latest analysis for flyash and bottom ash for both units I and II performed in June 2008 are attached.

Statement by Owner:

A signed and dated statement by the land owner is attached.

Generator Information:

The generator of the flyash and bottom ash

Roanoke Valley Energy Facility
290 Power Place
Weldon, NC 27890
(252) 536-3200
Plant Manager: Don Keisling
Plant Contact, Fuels Manager: Chris Hews
Plant Owner: Westmoreland Energy

Construction Plan:

Since this project will structural fill volume of more than 10,000 cubic yards, the construction plan (refer to attached drawings) have been prepared, signed and sealed by a registered professional engineer.

SITING (.1704)

Jurisdictional Wetlands:

There are no jurisdictional wetlands on the site.

Groundwater Table:

To ensure this requirement is met, a number of test wells were installed to observe any fluctuations in the water table over the time period since May 2008. The locations are shown on the drawings, and the results and details are enclosed. The data results demonstrate that the coal combustion by-products will not be placed within 2 feet of the seasonal high groundwater table.

The soils report, included as part of the Erosion and Sedimentation Control Plan, shows the soil types found on the site. The area is well drained.

Drinking Water:

As stated above, this area is agricultural, with little development on the adjacent properties. As indicated on the drawing, there are no drinking water sources within 100 horizontal feet of the intended structural fill area.

100-Year Flood Zone:

The subject project fill area, as well as the entire construction site, is completely out of the 100-year flood zone as shown on the FEMA flood map (located within the Erosion and Sedimentation Control Plan).

Property Boundary:

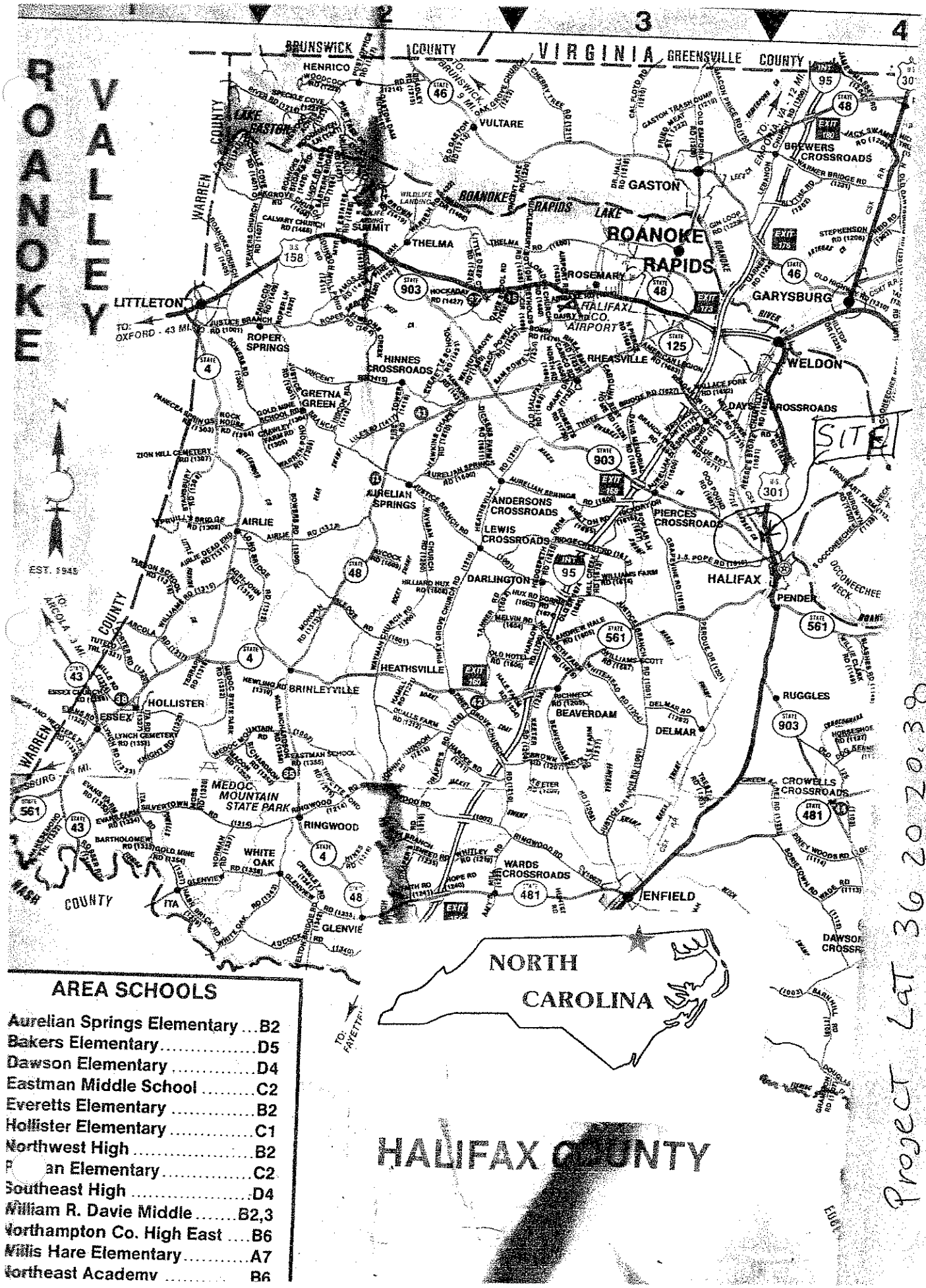
The project fill area is located well within the property. It is more than 25 feet from any property boundary. The boundary information is depicted on the Survey drawings.

Bedrock Outcrop:

A bedrock outcrop is not located on the property site, thus, the structural fill area is not located within 25 feet of a bedrock outcrop.

DESIGN, CONSTRUCTION, and OPERATION (.1705)

All criteria listed under this section of the regulations will be met throughout the design, construction and operation of the structural fill project.



AREA SCHOOLS

Aurelian Springs Elementary ... B2
Bakers Elementary D5
Dawson Elementary D4
Eastman Middle School C2
Everetts Elementary B2
Hollister Elementary C1
Northwest High B2
P[illegible]an Elementary C2
Southeast High D4
William R. Davie Middle B2,3
Northampton Co. High East B6
Willis Hare Elementary A7
Northeast Academy B6

Project LAT 36 20 20.38
LON 77 36 05.29

Volume Calculation

Volume Calculation Results
Calculated On: 2/24/2008
Primary File: C:\SIGHTSRV\WLBOT2
Secondary File: C:\SIGHTSRV\WLTOP

Total Cut Volume	=	0.00 cu. yards	
Total Fill Volume	=	111532.56	
Maximum Fill	=	11.253 feet	5123.7
85			
5123.752			
Total Area Cut	=	0.00 acres	
Total Area Fill	=	11.52 acres	

TCLP 6/2008

HAWKMTN
LABS INC
201 West Clay Avenue / West Hazleton, PA 18202
PHONE (570) 455-6011 • FAX (570) 455-6321

Certificate of Analysis

Customer: Westmoreland - LG&E Partners
Roanoke Valley Energy Facility
P.O. Box 351
Weldon, NC 27890

Report Date: June 19, 2008

Material Tested: Bottom Ash
Date Sampled: 06/09/2008 Time Sampled: 14:00
Date Received: 06/12/2008

HawkMtn WO #: 0806-00536-004
Sampler: Client
Sample Point ID: ROVA II

Client Sample ID: ROVA II Bottom Ash 6/09/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
Aluminum, leachate	1.74 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Arsenic, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Barium, Leachate	0.654 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Boron, Leachate	0.407 mg/l	SW	DDF	06/17/2008	18:00
Chromium, Leachate	<0.025 mg/l	SW			18:00
Copper, Leachate	0.02 mg/l	SW			18:00
Iron, Leachate	0.21 mg/l	SW			18:00
Lead, Leachate	<0.10 mg/l	SW			18:00
Manganese, Leachate	0.130 mg/l	SW			18:00
Mercury, Leachate	<0.001 mg/l	SW			10:30
Molybdenum, Leachate	<0.10 mg/l	SW			18:00
Nickel, Leachate	0.022 mg/l	SW			18:00
Selenium, Leachate	<0.10 mg/l	SW			18:00
Silver, Leachate	<0.010 mg/l	SW			18:00
Tin, Leachate	<0.040 mg/l	SW			18:00
Thallium, Leachate	<0.05 mg/l	SW			18:00
Titanium, Leachate	<0.10 mg/l	SW			18:00
Zinc, Leachate	0.284 mg/l	SW			18:00
TCLP, Extraction Fluid ID.	1 Fluid No.	SW			9:30
Leachate, Ending pH	4.9 su	SW			9:30

Aluminum - 1.74
Barium - 0.654
Boron - 0.407
Copper - 0.02
Iron - 0.21
Mang - 0.130
Nickel - 0.022
Zinc - 0.284

Bottom Ash
ROVA II

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Environmental Lab Coordinator

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REGISTERED COMPANY

PA DEP 40-417
EPA PA00169

HAWKMTN LABS INC

201 West Clay Avenue / West Hazleton, PA 18202
PHONE (570) 455-6011 • FAX (570) 455-6321

Certificate of Analysis

Customer: Westmoreland - LG&E Partners
Roanoke Valley Energy Facility
P.O. Box 351
Weldon, NC 27890

Report Date: June 19, 2008

Material Tested: Fly Ash
Date Sampled: 06/09/2008 Time Sampled: 11:30
Date Received: 06/12/2008

HawkMtn WO #: 0806-00536-003
Sampler: Client
Sample Point ID: ROVA II

Client Sample ID: ROVA II Fly Ash 6/09/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
Aluminum, leachate	16.6 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Arsenic, Leachate	0.40 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Barium, Leachate	0.960 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Beryllium, Leachate	0.011 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Boron, Leachate	5.41 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Chromium, Leachate	0.040 mg/l	SW846-6010B			18:00
Copper, Leachate	0.06 mg/l				18:00
Iron, Leachate	32.7 mg/l				18:00
Lead, Leachate	0.23 mg/l				18:00
Manganese, Leachate	0.826 mg/l				18:00
Mercury, Leachate	0.001 mg/l				10:30
Molybdenum, Leachate	0.138 mg/l				18:00
Nickel, Leachate	0.141 mg/l				18:00
Selenium, Leachate	0.55 mg/l				18:00
Silver, Leachate	0.040 mg/l				18:00
Tin, Leachate	<0.040 mg/l				18:00
Thallium, Leachate	<0.05 mg/l				8:00
Titanium, Leachate	0.12 mg/l				8:00
Zinc, Leachate	0.420 mg/l				:00
TCLP, Extraction Fluid ID.	2 Fluid No.				30
Leachate, Ending pH	5.1 su				30

Aluminum - 16.6
Arsenic - 0.40
Barium - 0.960
Beryllium - 0.011
Boron - 5.41
Cr - 0.04
Copper - 0.06
Iron - 32.7
Lead - 0.23
Mang - 0.826
Mercury - 0.001
Moly - 0.138
Nickel - 0.141
Selenium - 0.55
Silver - 0.040
Titanium - 0.12
Zinc - 0.420
Fly Ash ROVA II

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Environmental Lab Coordinator

HAWKMTN LABS INC
201 West Clay Avenue / West Hazleton, PA 18202
PHONE (570) 455-6011 • FAX (570) 455-6321

Certificate of Analysis

Customer: Westmoreland - LG&E Partners
Roanoke Valley Energy Facility
P.O. Box 351
Weldon, NC 27890

Report Date: June 19, 2008

Material Tested: Bottom Ash
Date Sampled: 06/09/2008 Time Sampled: 13:00
Date Received: 06/12/2008

HawkMtn WO #: 0806-00536-002
Sampler: Client
Sample Point ID: ROVA 1

Client Sample ID: ROVA 1 Bottom Ash 6/09/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
Aluminum, leachate	5.98 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Arsenic, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Barium, Leachate	0.549 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Boron, Leachate	0.345 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Chromium, Leachate	<0.025 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Copper, Leachate	0.09 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Iron, Leachate	3.46 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Lead, Leachate	0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Manganese, Leachate	0.098 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	DDF	06/18/2008	10:30
Molybdenum, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Nickel, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Selenium, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Tin, Leachate	<0.040 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Titanium, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Zinc, Leachate	0.276 mg/l	SW846-6010B	DDF	06/17/2008	18:00
TCLP, Extraction Fluid ID.	2 Fluid No.	SW846-3010	DDF	06/17/2008	9:30
Leachate, Ending pH	3.3 su	SW846-9040	DDF	06/17/2008	9:30

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Environmental Lab Coordinator

ISO 9001:2000 REGISTERED COMPANY

PA DEP 40-417
EPA PA00169

HAWKMTN LABS INC
201 West Clay Avenue / West Hazleton, PA 18202
PHONE (570) 455-6011 • FAX (570) 455-6321

Certificate of Analysis

Customer: Westmoreland - LG&E Partners
Roanoke Valley Energy Facility
P.O. Box 351
Weldon, NC 27890

Report Date: June 19, 2008

Material Tested: Fly Ash
Date Sampled: 06/09/2008 Time Sampled: 11:00
Date Received: 06/12/2008

HawkMtn WO #: 0806-00536-001
Sampler: Client
Sample Point ID: ROVA 1

Client Sample ID: ROVA 1 Fly Ash 6/09/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
Aluminum, leachate	6.91 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Arsenic, Leachate	0.29 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Barium, Leachate	0.441 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Boron, Leachate	5.18 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Chromium, Leachate	<0.025 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Copper, Leachate	0.02 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Iron, Leachate	6.96 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Manganese, Leachate	0.526 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Mercury, Leachate	0.001 mg/l	SW846-7470A	DDF	06/18/2008	10:30
Molybdenum, Leachate	0.202 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Nickel, Leachate	0.061 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Selenium, Leachate	0.51 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Silver, Leachate	0.029 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Tin, Leachate	<0.040 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Thallium, Leachate	0.06 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Titanium, Leachate	0.10 mg/l	SW846-6010B	DDF	06/17/2008	18:00
Zinc, Leachate	0.339 mg/l	SW846-6010B	DDF	06/17/2008	18:00
TCLP, Extraction Fluid ID.	1 Fluid No.	SW846-3010	DDF	06/17/2008	9:30
Leachate, Ending pH	5.7 su	SW846-9040	DDF	06/17/2008	9:30

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director

Andrea Mengel, Environmental Lab Coordinator

ISO 9001:2000 REGISTERED COMPANY

PA DEP 40-417
EPA PA00169

QSP-008-FO2A REV 001

CHAIN OF CUSTODY
SAMPLE SUBMISSION RECORD

HAWKMTN LABS INC
201 West Clay Ave. • West Hazleton, PA 18202
Phone: (570) 455-6011 • Fax: (570) 455-6321

CUSTOMER NO. WESTMO

WORK ORDER NO. 806.536-1,4

REPORT TO:
Roanoke Valley Energy Facility
290 Power Place
Weldon NC 27890

ATTN: Chris Hews PHONE: (252) 536-3200 FAX: ext. 232

INVOICE TO: P.O. Box 351
Weldon NC 27890

PURCHASE ORDER NO. 2070077

PROJECT NO.

PROJECT NAME ROVA

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
SL SLUDGE
SO SOIL
SF SOLID FUEL
FM FILTER MEDIA

ANALYSES TO BE PERFORMED

SAMPLE DESCRIPTION/LOCATION	DATE OF SAMPLING	TIME OF SAMPLING	SAMPLER (INITIALS)	TOTAL NO. CONTAINERS	SAMPLE TYPE	TCLP (leachate)										REMARKS:
ROVA I Fly Ash	6/9	1100	PM	1		X										
ROVA II Fly Ash	6/9	1130	PM	1		X										
ROVA I Bottom Ash	6/9	1300	PM	1		X										
ROVA II Bottom Ash	6/9	1400	PM	1		X										

REMARKS
Please Email A copy of the Results to chris.hews@pwrops.com

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	6/10/08	0926			
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY: (SIGNATURE)	DATE	TIME
			Gloria Tout	6/[illegible]	1210

001

Statement of Land Owner

STATEMENT OF LAND OWNER

I, Wayne Long, owner and developer of the land on which the structural fill is to be placed, hereby acknowledge and consent to the use of coal combustion by-products as structural fill and agree to record the fill statement with the register of deeds of Halifax County in accordance with Rule .1707 of the .1700 Regulations and in the form prescribed by G.S. 47-38 through G.S. 47-43.

H. Wayne Long
Signature of Land Owner

8-8-08
Date

STATEMENT OF AGENT for LAND OWNER

I, Eugene B. Grant, Jr. agent for the owner and developer of the land on which the structural fill is to be placed, hereby acknowledge and consent to the use of coal combustion by-products as structural fill and agree to record the fill statement with the register of deeds of Halifax County in accordance with Rule .1707 of the .1700 Regulations and in the form prescribed by G.S. 47-38 through G.S. 47-43.

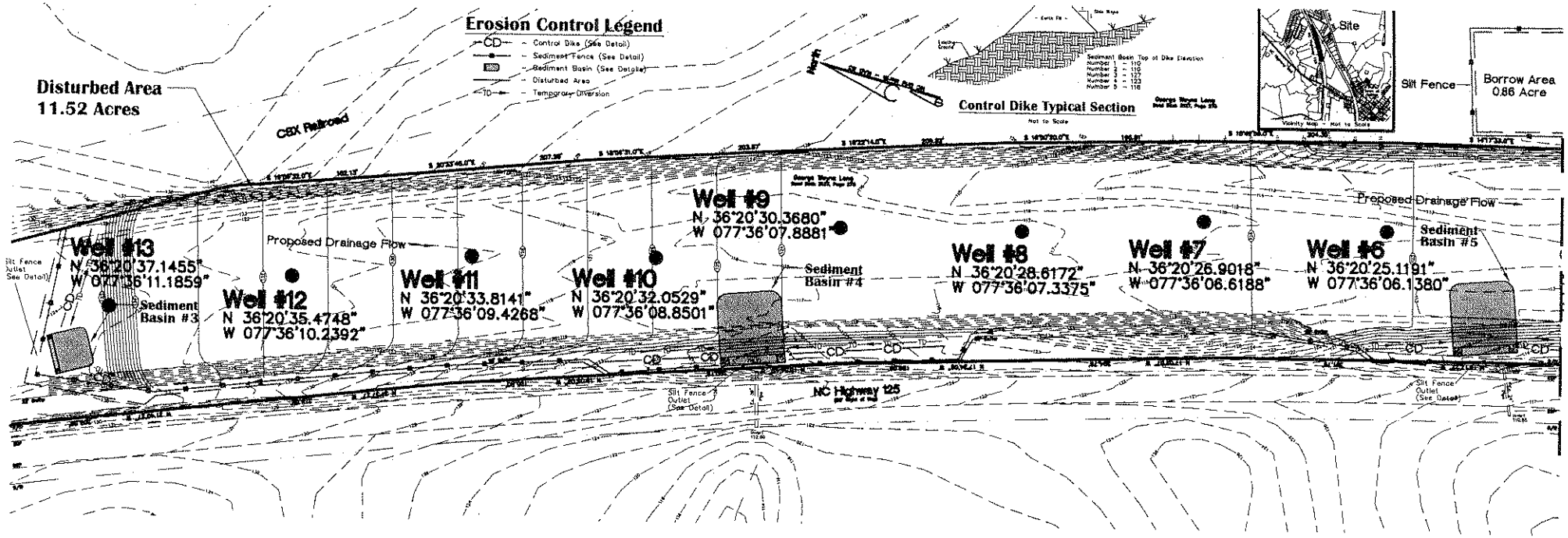
Signature of Agent for Land Owner

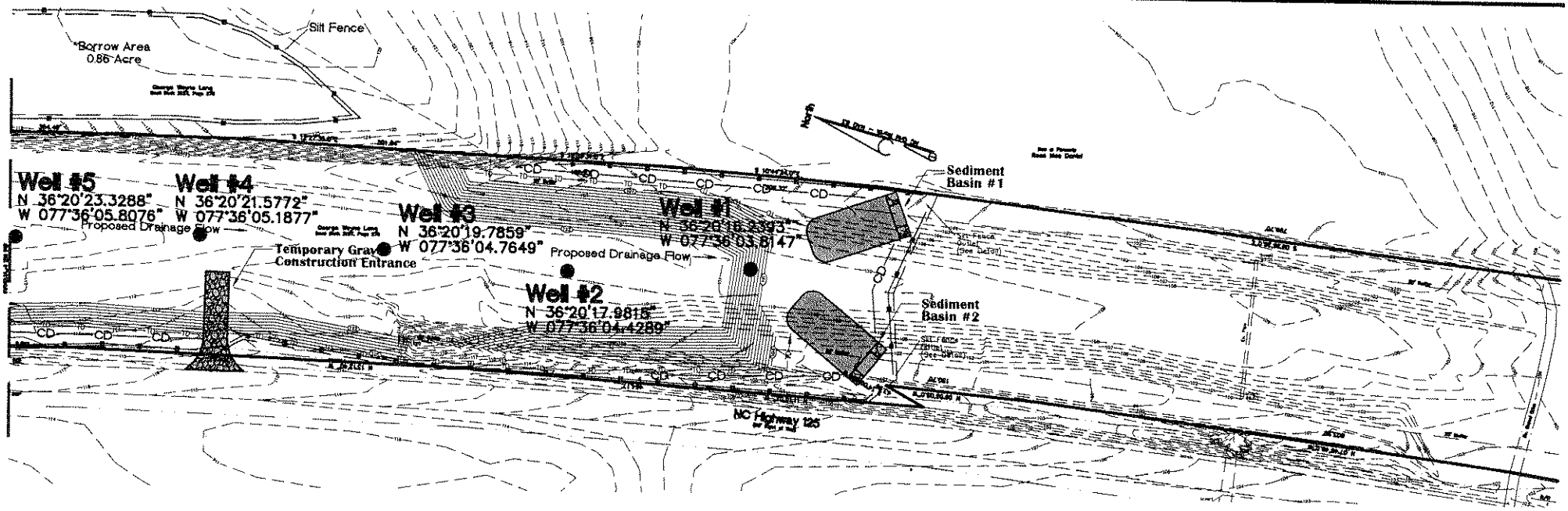
8/8/08
Date

WATER TABLE STUDY

Water Table Study
Wayne Long Mini Storage

Summary: All The Test Wells Monitored exhibited ground water averages of more than the required 2-foot separation as per CCB regulations.). The readings of these test wells match the ground water guidelines of the Halifax county soil study map and soil types.

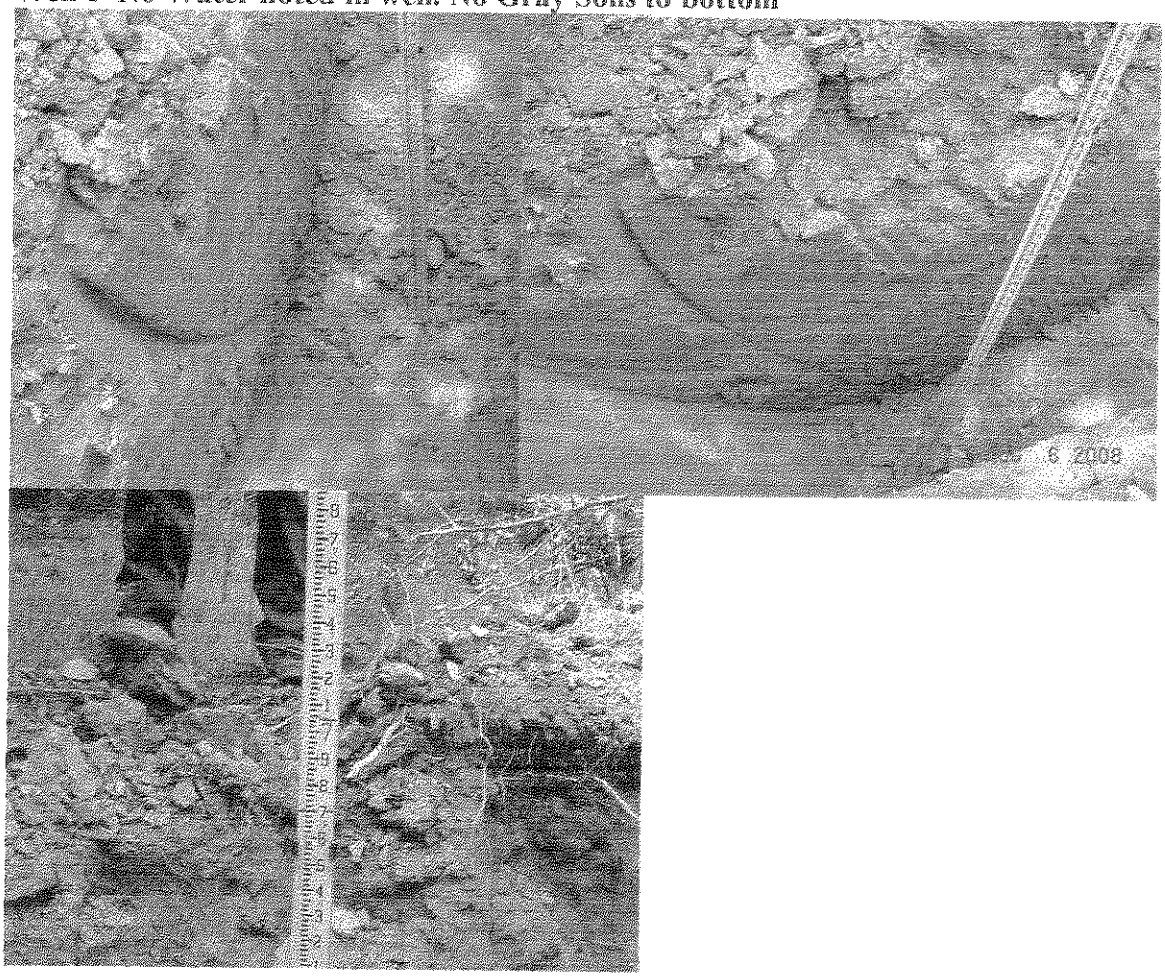

Erosion Control Legend
CD Control Dike (See Detail)
Sediment Fence (See Detail)
Sediment Basin (See Detail)
Disturbed Area
Temporary Diversion
Disturbed Area
11.52 Acres
CSX Railroad
North
Control Dike Typical Section
Not to Scale
Site
Silt Fence
Borrow Area
0.86 Acre
Proposed Drainage Flow
Well #13
N 36°20'37.1455"
W 077°36'11.1859"
Well #12
N 36°20'35.4748"
W 077°36'10.2392"
Well #11
N 36°20'33.8141"
W 077°36'09.4268"
Well #10
N 36°20'32.0529"
W 077°36'08.8501"
Well #9
N 36°20'30.3680"
W 077°36'07.8881"
Well #8
N 36°20'28.6172"
W 077°36'07.3375"
Well #7
N 36°20'26.9018"
W 077°36'06.6188"
Well #6
N 36°20'25.1191"
W 077°36'06.1380"
Sediment Basin #3
Sediment Basin #4
Sediment Basin #5
Silt Fence Outlet (See Detail)
NC Highway 125


Borrow Area
0.86 Acre
Silt Fence
North
Well #5
N 36°20'23.3288"
W 077°36'05.8076"
Well #4
N 36°20'21.5772"
W 077°36'05.1877"
Well #3
N 36°20'19.7859"
W 077°36'04.7649"
Well #2
N 36°20'17.9815"
W 077°36'04.4289"
Well #1
N 36°20'16.2393"
W 077°36'03.8147"
Proposed Drainage Flow
Temporary Gravel Construction Entrance
Sediment Basin #1
Sediment Basin #2
Silt Fence Outlet (See Detail)
NC Highway 125

Water Table Study
Wayne Long Mini Storage Project

To comply with the siting requirements in .1704 ground water table separation of 2 ft or greater. Ground water monitoring wells were installed in June 2008. The 13 wells are spaced equidistant throughout the project on the fill area (See Map). See individual well readings for details and readings.

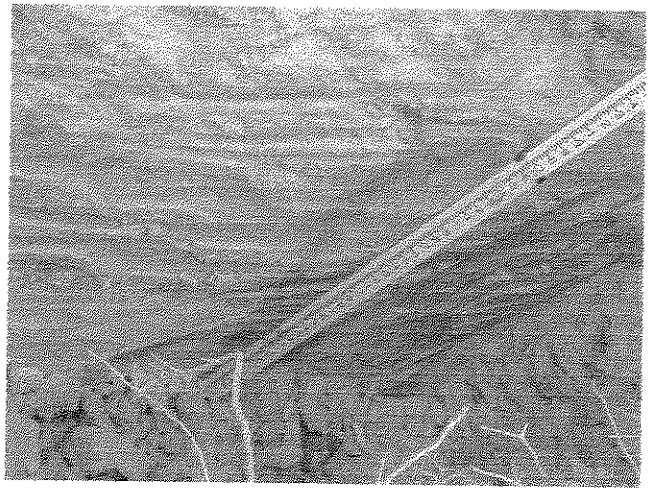
Well 1 No Water noted in well. No Gray Soils to bottom



No Gray soils indicating water table at 7 feet from surface
Readings

AVERAGE GROUND WATER BELOW SURFACE – >7'

Well 2
Approx 5.5' Depth. No water standing noted. Gray Mottling at 5' deep.



AVERAGE GROUND WATER BELOW SURFACE – >5'

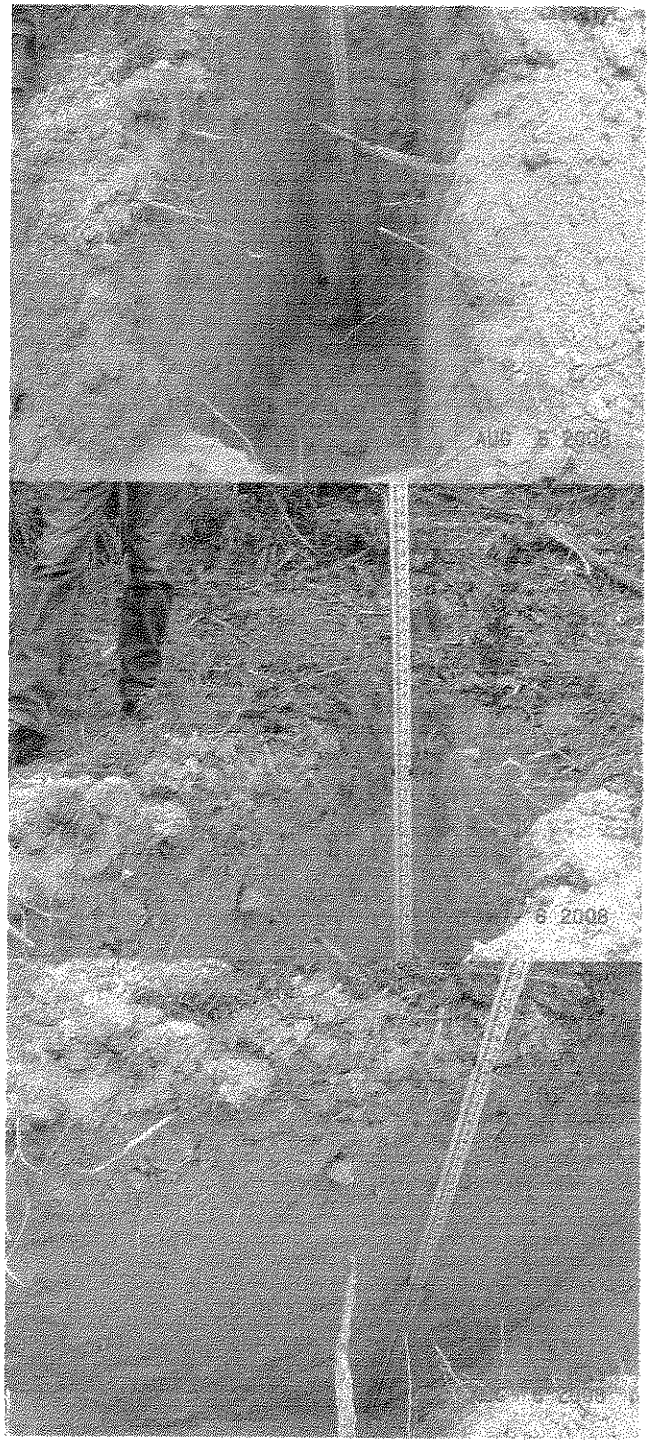
Well 3
Approx 6'Deep. No Water standing. Gray mottling Sands at 5.8 depth.

Gray Mottling Sands at 5.8'

AVERAGE GROUND WATER BELOW SURFACE – >5.7'

Well 4

Approx 7' Deep. No Standing Water noted. Sands red and orange in color

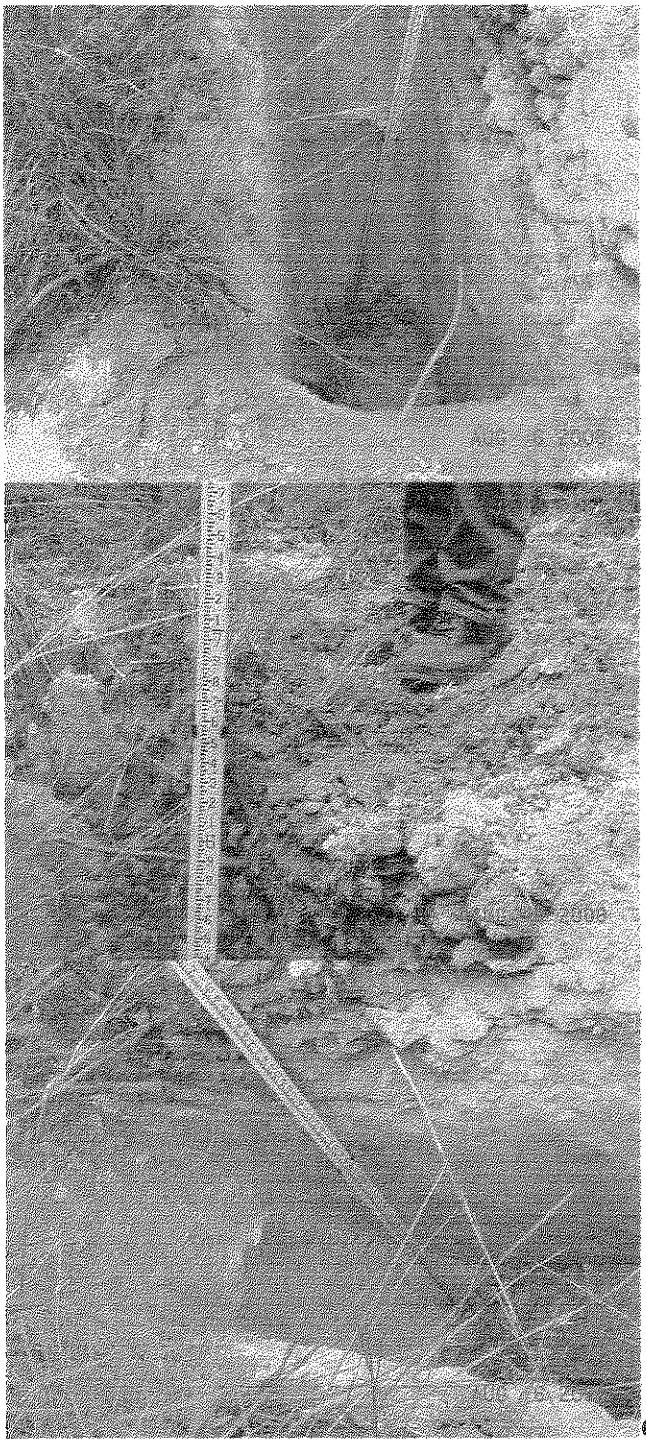


No Grays soils noted

AVERAGE GROUND WATER BELOW SURFACE – >6.5'

Well 5

Approx 7' Deep. No standing water noted. Orange sands. Gray mottling at 5.7'

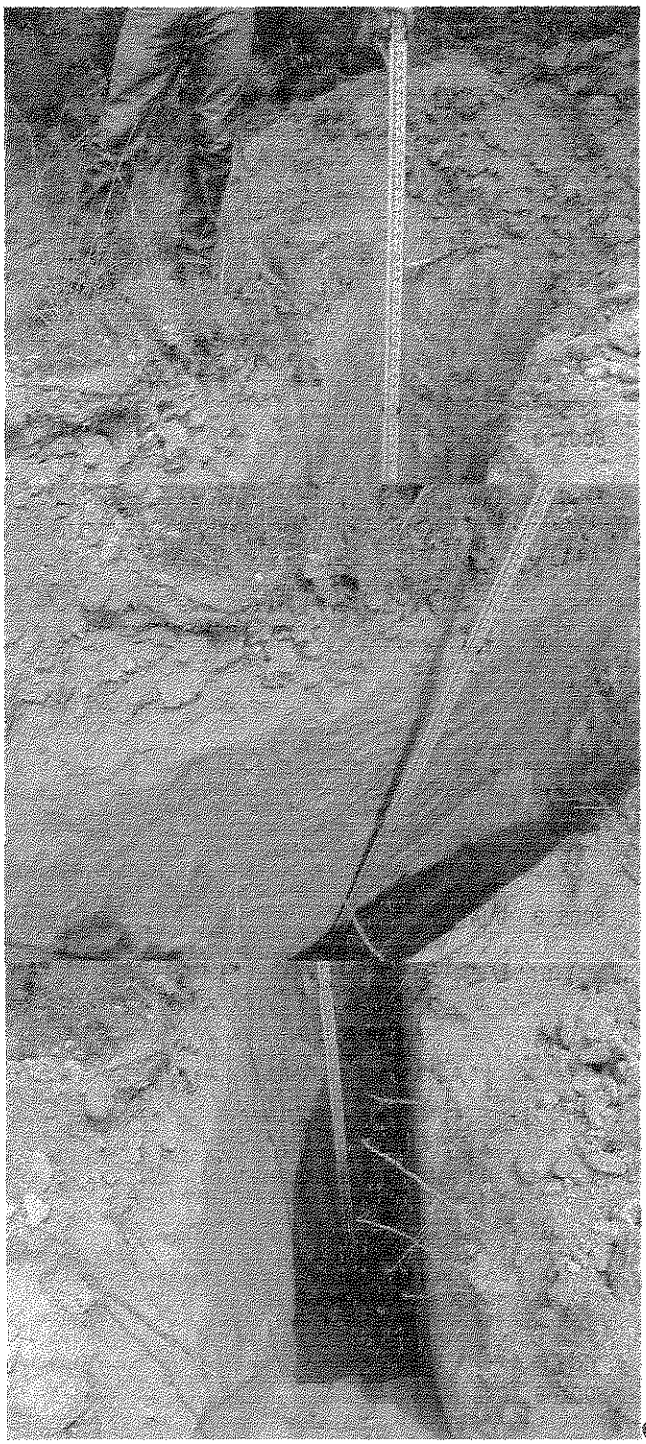


Gray Mottling at 5.7'

AVERAGE GROUND WATER BELOW SURFACE – >5.6'

Well 6

Approx 8' Deep. No Standing Water noted. Red Orange Sands & Clay. Gray Mottling at 7.2'



Gray Mottling at 7.2'

AVERAGE GROUND WATER BELOW SURFACE – >7'

Well 7

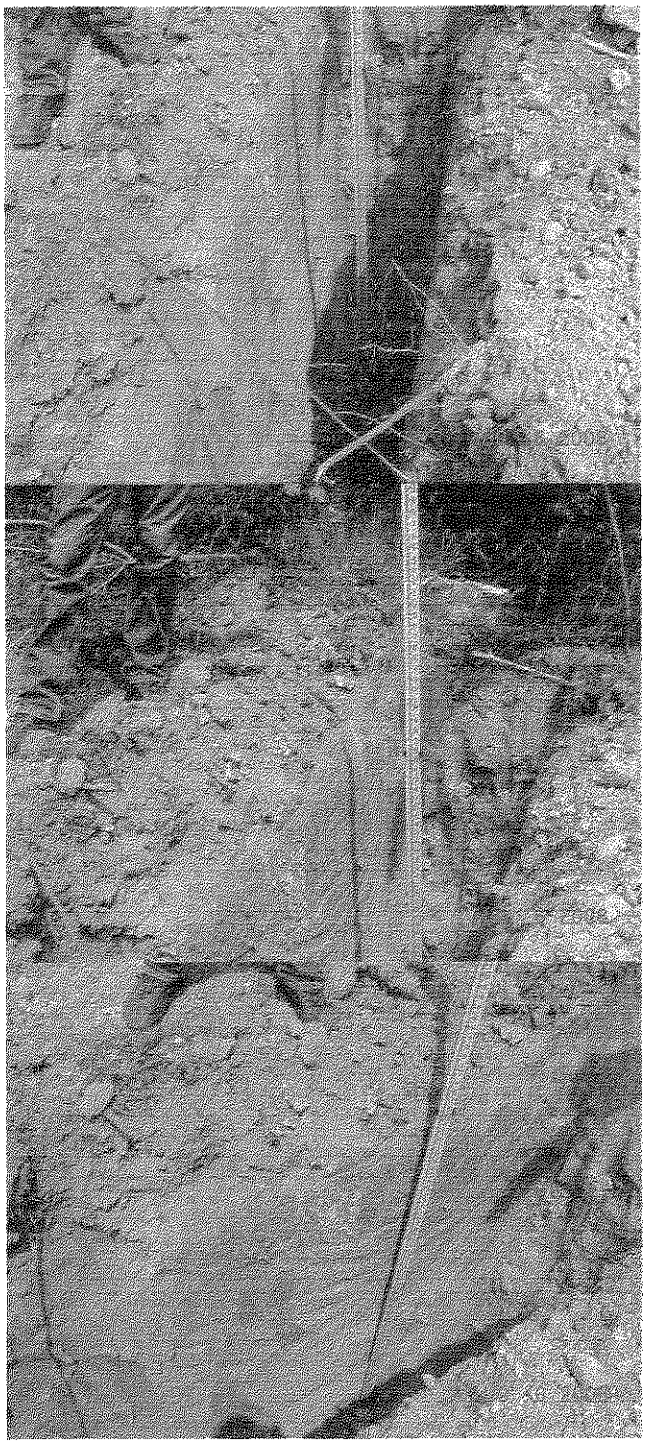
Approx 7' Deep. No Standing Water noted. Red Orange Clays and Sands
Gray Mottling at 6.5'

Gray Mottling at 6.5'

AVERAGE GROUND WATER BELOW SURFACE – >6.4'

Well 8

Approx 7' Deep. No Standing Water Noted. Red Orange Clays and Sand Gray Mottling at 6' Depth.

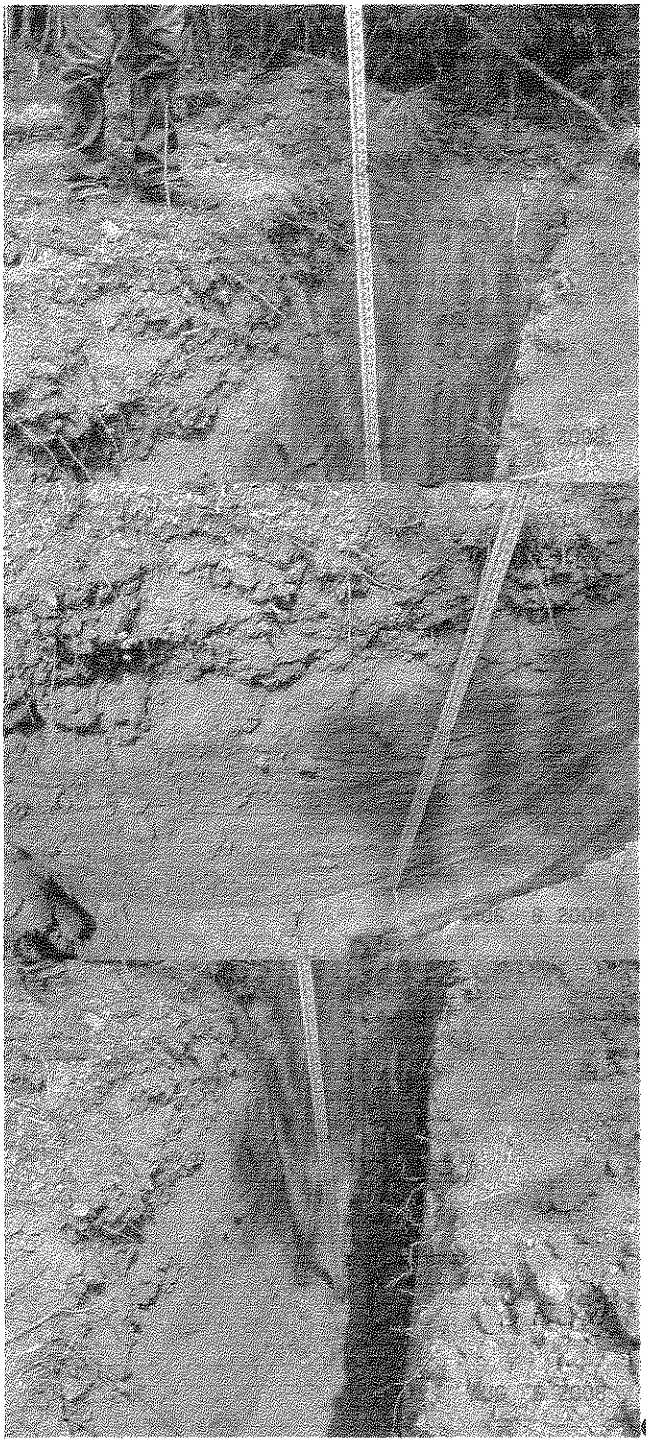


Gray mottling at 6'

AVERAGE GROUND WATER BELOW SURFACE – >6'

Well 9

Approx 6' depth. No Standing Water . Gray Mottling at bottom

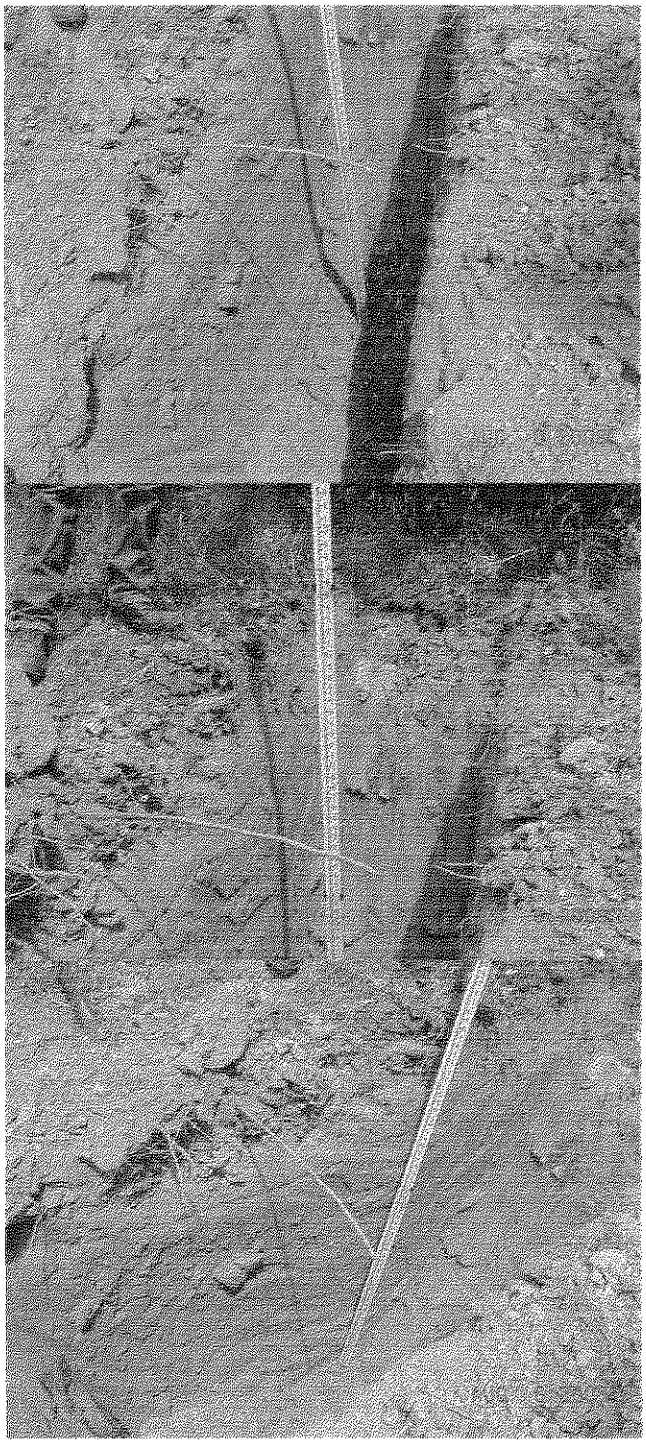


Gray Mottling at 6'

AVERAGE GROUND WATER BELOW SURFACE – >6'

Well 10

Approx 6' Deep. Pretty Red Clays. No Gray mottling. No Standing water noted



No Gray Mottling to Depth

AVERAGE GROUND WATER BELOW SURFACE – >6'

Well 11

Approx 6' Depth. Red Clays. No Standing Water noted

AVERAGE GROUND WATER BELOW SURFACE – >6'

Well 12

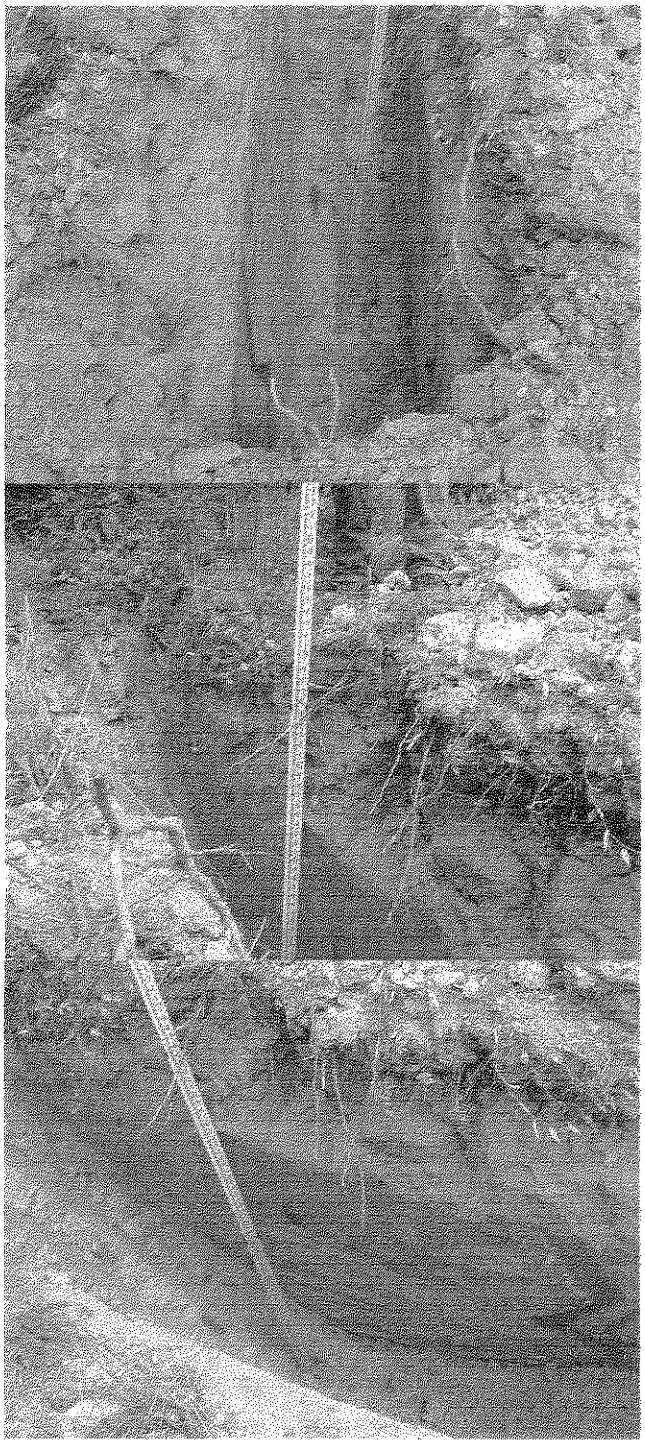
Approx 6' Deep. Mixed Gray Streaks at 3'

Mixed Gray Steaks 3'

AVERAGE GROUND WATER BELOW SURFACE – >3'

Well 13

Approx 7' Depth. Red Clays and orange sands No Standing Water Noted



AVERAGE GROUND WATER BELOW SURFACE – >6'

EROSION CONTROL PLAN

State of North Carolina
Department of Environment
and Natural Resources
Raleigh Regional Office

Michael F. Easley, Governor
William G. (Bill) Ross, Secretary

NCDENR
NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF LAND RESOURCES
LETTER OF APPROVAL
July 2, 2008

Plumbline Corp PA
121 Washington Ave
Weldon, NC 27890
ATTN: Russell Grant

RE: Project Name: Wayne Long Mini Storage Project
County: Halifax
Submitted by: Plumbline Corp. PA
Date Received: June 2, 2008
Date Processing Initiated: June 2, 2008
Watershed: Roanoke #2/03-02-08
New Submittal (X) Revised ( )

Dear Mr. Grant:

This office has reviewed the subject Erosion and Sedimentation Control Plan. We find the plan to be acceptable and hereby issue this letter of approval. If any modifications, performance reservations, or recommendations are applicable, a list is enclosed and is incorporated as a part of this letter of approval. The enclosed Certificate of Approval should be posted at the job site. In addition, it should be noted that this plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, in accordance with Title 15A, North Carolina Administrative Code (NCAC) 4B.0029.

If any modifications are not incorporated into the plan and implemented in the field, the site will be in violation of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute (NCGS), 113A-61.1).

15A NCAC 4B.0018(a) requires that a copy of the approved plan be on file at the job site. Also, this letter gives the notice required by NCGS 113A-61.1(a) concerning our right to perform periodic inspections to ensure compliance with the approved plan.

North Carolina's sedimentation pollution control program is performance oriented, requiring protection of the natural resources and adjoining properties. If at any time during this project it is determined that the Erosion and Sedimentation Control Plan is inadequate to meet the requirements of the Sedimentation Pollution Control Act of 1973 (NCGS 113A-51 through 66), this office may require revisions in the plan and its implementation to ensure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with applicable federal and state water quality laws, regulations and rules. This could include the Division of Water Quality under stormwater or other specific water quality standards, and the U.S. Army Corps of Engineers under Article 404 jurisdiction. Our approval does not supersede any other required permit or approval.

Since this project disturbs one or more acres, one such approval relates to the stormwater that will discharge from your project. This runoff is permitted pursuant to the National Pollutant Discharge Elimination System (NPDES) administered in North Carolina by the Division of Water Quality (DWQ). Attached is the General Stormwater NPDES Permit, NCG010000, as revised October 1, 2001, covering your activity. You are responsible for complying with the General Permit requirements and are subject to enforcement by DWQ for any violations of the General Permit.

Please note that this approval is based in part on the accuracy of the information provided concerning financial responsibility. You are requested to file an amended Financial Responsibility Form if any changes become necessary. In addition, it would be helpful if you would notify this office when the proposed land-disturbing activity covered by this plan is initiated.

Your cooperation is appreciated and we look forward to working with you on this project. If there are any questions, please do not hesitate to contact this office.

Sincerely,

A. Brad Cole
Asst. Regional Engineer
Land Quality Section

ABC:clm
cc: Henry Grant, Plumbline Corp., PA
Danny Smith, Regional Supervisor, DWQ, Raleigh Regional Office

PLAN REVIEW COMMENTS

PROJECT NAME: Wayne Long Mini Storage LOCATION: Halif-2008-029	DATE RECEIVED: June 2,2008 REVIEWED BY: TWV/BC
New Submittal (X) Revised ()	Approved (X) Disapproved ()

Reasons for Disapproval () Modifications (X) Performance Reservations ()

1) Specify that trap dimensions provided are bottom dimensions. Also remind in note that sideslopes are be 2.1.

2) Increase weir length to 12' on traps #1 and #2.

3) Provide silt fence outlets (see email dated 7/2/08) where silt fence crosses the sediment trap discharge channels. Provide silt fence outlet detail.

4) In construction sequence, specify that sediment traps #4 and #5 are to remain until entire site stabilized. Instruct contractor that no fill will be placed on top of traps until that time.

5) Provide on copy of revised plans to this office by August 2, 2008 or prior to construction, whichever is first.

RECOMMENDATIONS AND/OR COMMENTS:

Ammended PLANS
7/22/08
RG

To: Thad Valentine

6/17/08

Reponses to information request

Reference Wayne Long Mini Storage Project Halifax Co.
Faxed received 6/2/08 to Plumbline corp. P.A. 252 536 0203

Contact person : Russell Grant 252 536 1630

Reference Point #

1. Written Directions included in Project narrative from Hwy I 95.
2. Soils map printed and enclosed
3. The limits of disturbance where intended to be represented by the sediment fence line on plans. The access for the basins will be from the interior of the site.
4. As stated in the narrative Plumbline Engineering will contract with local haulers to purchase cover dirt. In order to ensure performance an addendum of borrow area on an adjacent parcel owned by the developer in being included on the plans.
5. Updated FRO attached. With Check for 65.00 for increase in acerage.
6. Amended sed trap calculations using 3600 f3 included.
7. Disturbed areas calculated for sed traps amended to include the area immediately around the sed traps to balance the calculated areas and the disturbed areas.
8. Diversions to traps amended Notrd TD on the plans
9. Silt fence outlets bellows sed traps amended on plans
10. Changed construction entrance detail to 100' long
11. Construction sequence amended detail in construction sequence for sed trap 4&5 amended to state for removal inspection.

Wayne Long Mini Storage

Halifax County, NC

Erosion Control Plan

PREPARED BY:
PLUMBLINE CORPORATION P.A.
121 WASHINGTON AVE
WELDON, NC 27890

Rev 1 6/15/08

Wayne Long Mini Storage Facility
Project Narrative
Description

E.B. GRANT P.E.
Registered Professional Engineer
NC. No 4402
Registered Land Surveyor
NC PLS No. L-1592

6/15/08 REV 1

Project Narrative

This project is to construct a commercial building site for a private developer. The end use will be a mini storage facility with area graded to the north and south for future development.. Approximately 11.52 Acres will be disturbed of a 20.2 acre parcel. Wayne Long is the developer and he owns this land and the adjoining parcel to the east and is bounded on the west by State highway 125. The site is located about 1.2 miles from the town of Halifax NC in Halifax County NC. The Parcel # is 0600449, 911 Address is not applied for yet but survey is attached. Lat 36 20 20.38 N Lon 77 36 05.29 W

Directions

From I 95 take Exit 168 the Halifax exit on to Hwy 903 East. Go 5.5 Miles past the Halifax Co. 4H center and the DOT Engineers office to the intersection of Hwy 903 and Hwy 125. Take a left or North 0.6 site is on left.

Site Description

The site was a proposed railroad bed and has been previously graded to lay rails for a correction in the north south line of the Atlantic coastline railroad. As such the is a raise bed with drains on either side with a culvert works as needed. It is it is a relatively flat area dug out between two hills. The soils are red clay with a thin topsoil that is mostly open with volunteer pines about 9-12 years growth. This project will maintain a buffer between the existing highway and the construction site.

Adjacent Property

The Site is situated between Highway 125 on the South and a 5.15 acre parcel owned by Mr.Wayne Long to the north. To the northwest is the existing railroad and to the south west is property listed as Rosa Daniel heirs. The construction project will maintain a 25' setback from the Daniel property. Except for the railroad right of way all the other properties are undeveloped.

Soils

The entire property and the adjacent property is soil type EmB Emporia fine sandy loam, 2 to 6 percent slope. This gently sloping, very deep, well-drained soil is on upland ridges

and side slope of the Coastal Plain. There are no wetlands on the site. See attached Soils Maps. USGS Topo Quad map included.

Drainage Patterns

The drainage pattern of the existing contours are shown by the associated contour plan, The proposed drainage pattern is to shift the flow to the existing open drains on the north and south ends of the project. There is no close named watercourse receiving runoff from this site. The nearest creek is Quankey creek.

Planned Erosion and Sedimentation Control practices

1. Sediment Basins – Practice 6.61 from Erosion Control Manual

Sediment basins will be constructed on each end of the property 2 on the south end and 1 on the north end with 2 in the middle along hwy 125 to catch the downhill run off from the grading project. We will use the baffle type basins with the rock weir as described in section 6.65 and drawn on the detail sheet submitted with the plans.

2. Temporary Construction Entrance / Exit

A temporary gravel construction entrance will be installed on the south side of the property off of Hwy 125. See Detail drawing for more information.

3. Clearing and Grading

Because of the shape of this construction site being a narrow strip of land that is considerably long we will start at the north end of the project and clear as needed to the south as the project grows. This way to preserve the native vegetative growth to lessen erosion.. All slopes will be 3:1 or flatter to avoid instability due to wetness.

4.Control Dikes/Berms

Control dikes will be constructed to divert water to sediment basins and a barrier to erosion from leaving the site. Dikes will be constructed where there is no natural diversion. Control dikes will be a minimum of 3' tall with a 1:1 slope see detail submitted with the plans.

5. Sediment fence

Sediment fence will be erected behind the control dike to prevent sediment from leaving the site. See plans for locations and details.

6. Dust Control

Dust control is not expected to be a problem due to the narrow exposure or width of the site and its position surrounded by trees. To ensure control a water truck or wagon that sprinkles water to wet the traffic areas to keep the dust down.

7. Fill material

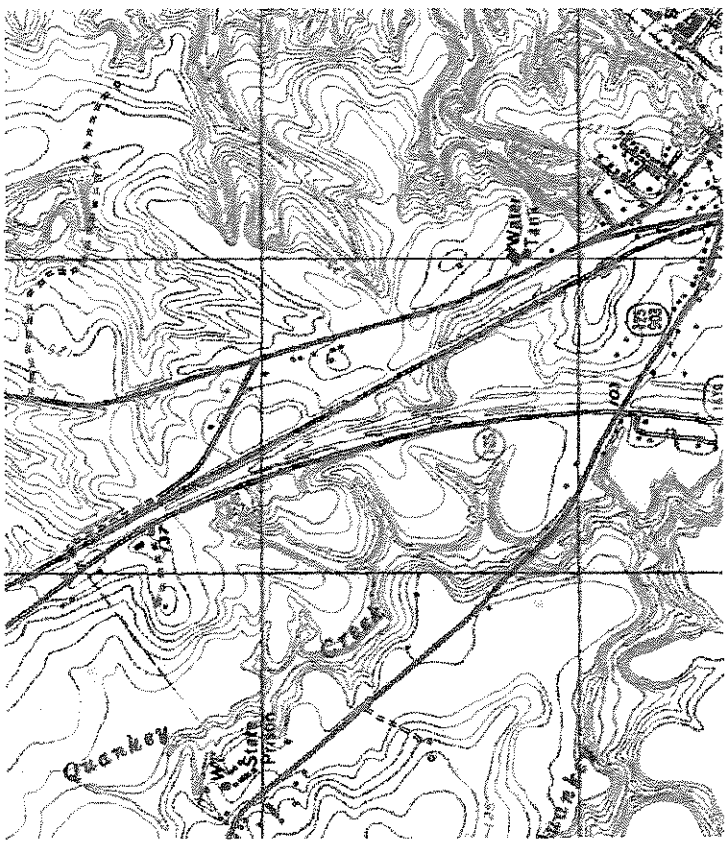
The project is primarily a fill site using fly ash from a local power generator and local soil. The fly ash fill will need to gain notification of the NC Dept of solid waste and will qualify under section .1700 beneficial reuse of fly ash used as a structural fill. In order to cover the ash filled section of the project we will contract with local haulers to obtain cover dirt. If additional cover dirt is needed a 0.83 acre borrow pit will be dug on the adjacent 5 acre parcel owned by Wayne long. See map and addendum.

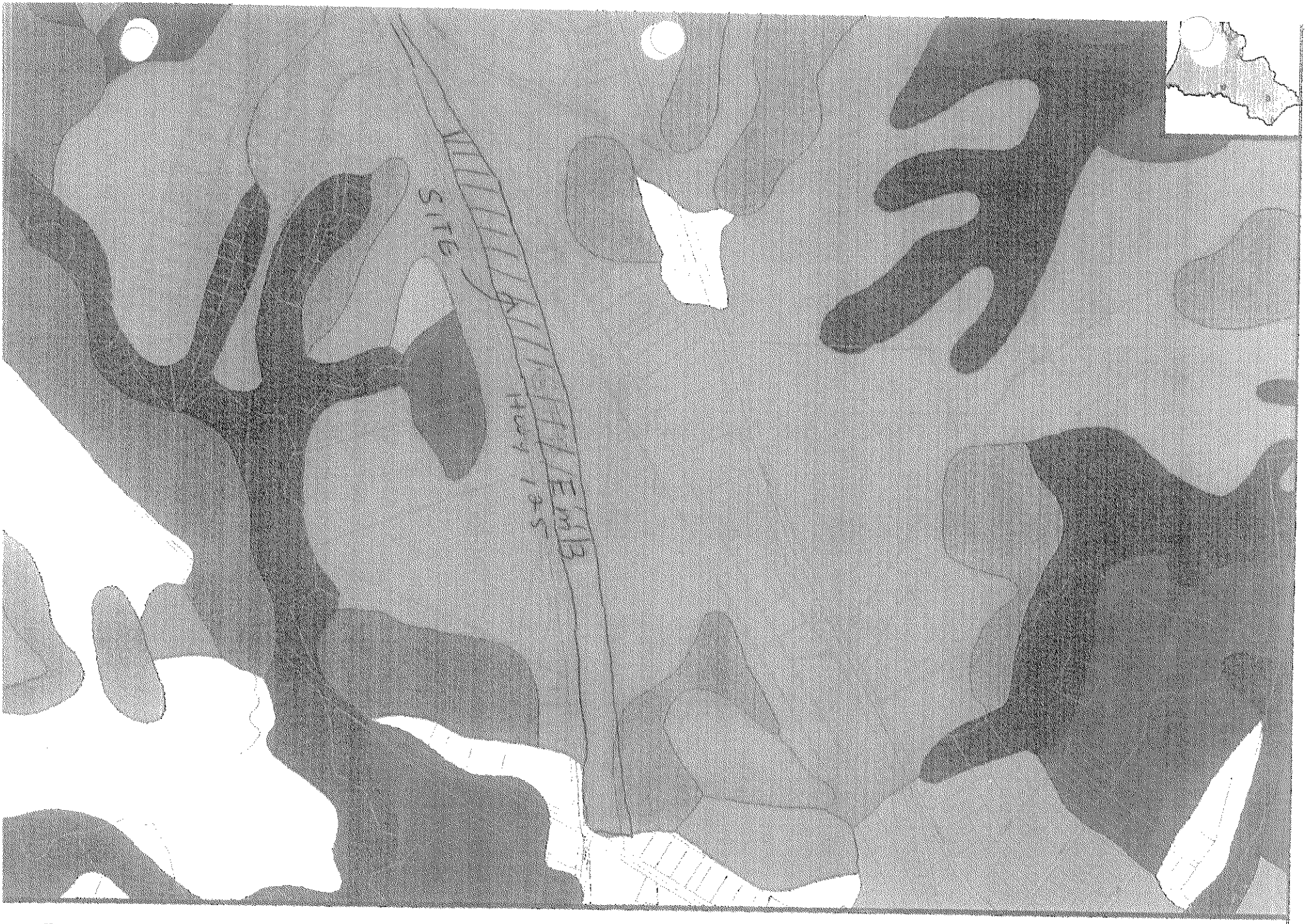
8. Responsibility

The responsible person for maintenance of erosion control devices during construction is Russell Grant of Plumbline Engineering. The maintenance of the permanent measures would be the owner Wayne Long, Completed Financial Responsibility/Ownership form attached.

9. Bid Specs will be the addressed from the detail sheet and the proposed grading plans. Most of the construction will be done by Plumbline Engineering the same company submitting the plans and who designed the site. The construction sequence is addressed on the details sheet.

SOIL STUDY


Water Tank
Creek
Quankey
State Prison



Title Line 1

Red colors EmB
County Soil Survey

1 in. = 693.5 feet

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—2000

ROAD CLASSIFICATION

Primary highway hard surface .....

Secondary highway hard surface .....

Light-duty road, hard or improved surface .....

Unimproved road .....

Interstate Route

U.S. Route

State Route

HALIFAX, NC

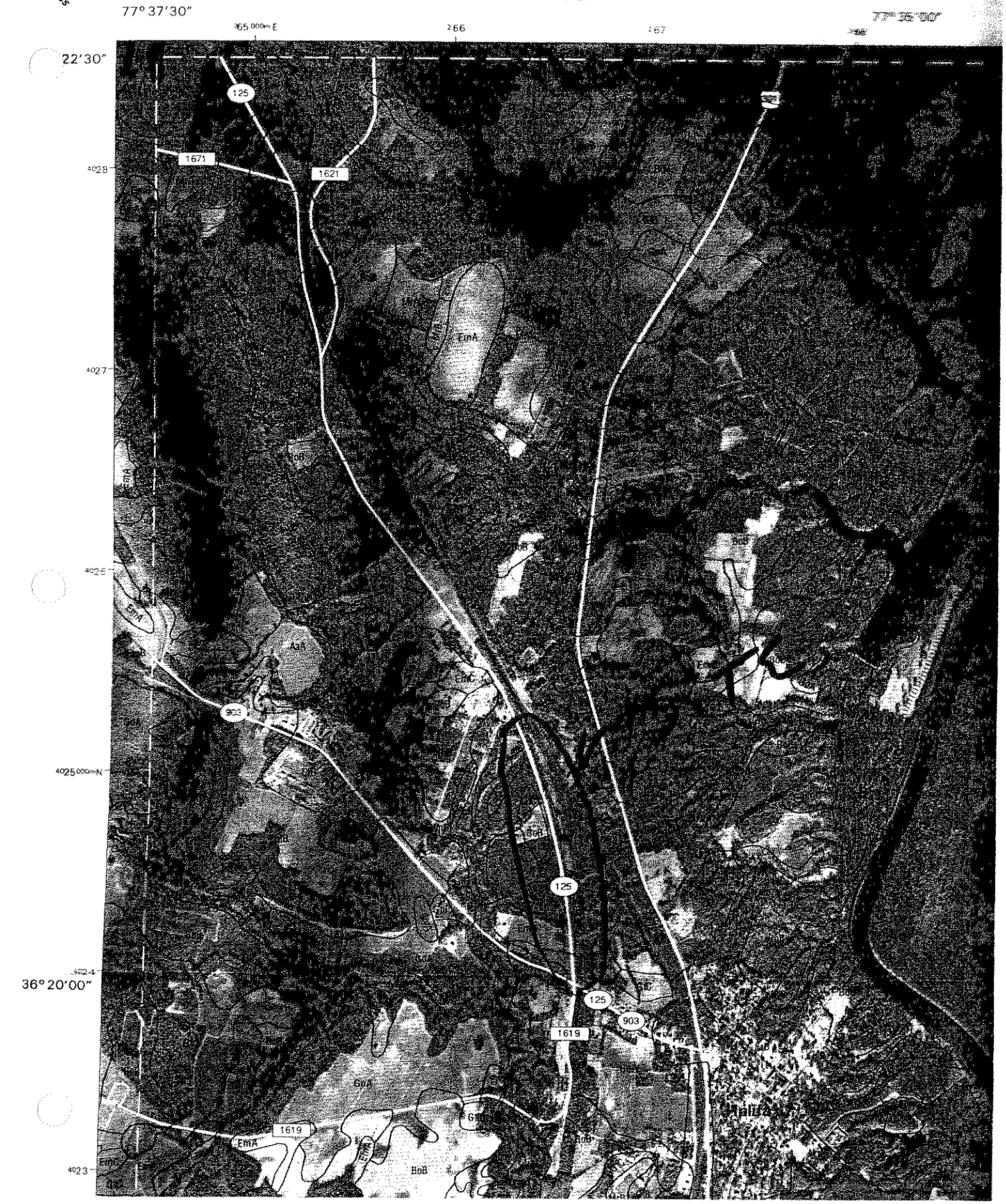
1997

NIMA 5456 I SE-SERIES V842

ISBN 0-607-94119-7

125
125
903
1619

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE



EmB—Emporia fine sandy loam, 2 to 6 percent slopes. This gently sloping, very deep, well drained soil is on upland ridges and side slopes of the Coastal Plain. Individual areas are irregular in shape and range from about 5 to 100 acres in size.

Typically, the sequence, depth, color, and texture of the layers of this soil are as follows—

Surface layer:
0 to 10 inches—brown fine sandy loam

Subsurface layer:
10 to 17 inches—yellowish brown fine sandy loam

Subsoil:
17 to 43 inches—yellowish brown sandy clay loam
43 to 58 inches—yellowish brown clay that has gray, red, and brownish yellow mottles

Substratum:
58 to 67 inches—mottled yellowish brown, gray, strong brown, and red clay loam that has thin strata of sandy loam

Important soil properties—

Permeability: Moderately slow or moderate in the upper part of the subsoil and slow or moderately slow in the lower part
Available water capacity: Moderate
Surface runoff: Medium
Hazard of water erosion: Moderate
High water table: At a depth of 3.0 to 4.5 feet from November through April

Included with this unit in mapping are a few areas of Gritney, Marlboro, and Bonneau soils. The moderately well drained Gritney soils have a clayey subsoil. They are on shoulders and side slopes. Marlboro soils have a clayey subsoil. Marlboro and Bonneau soils are intermingled with the Emporia soil in some areas. Bonneau soils have a sandy surface layer that is more than 20 inches thick. In some areas eroded soils that have a surface layer of sandy clay loam are intermingled with the Emporia soil. Also included are small areas of soils that have major properties, use, and management similar to those of the Emporia soil but have a thicker subsoil. Dissimilar inclusions make up about 12 percent of this map unit.

Most of this map unit is used as cropland. The rest is mainly used as pasture or woodland.

In cultivated areas of this Emporia soil, the major crops are cotton, tobacco, peanuts, corn, and soybeans. The hazard of erosion and a water table that is perched during wet periods are the main limitations affecting cropland. Cultivation may be delayed during wet periods. Planting winter cover crops and managing crop residue help to control runoff and erosion and maintain tilth. Conservation practices, such as no-till planting, stripcropping, crop rotations, contour farming, field borders, grassed waterways, and terraces and diversions, can also help to conserve water and control erosion.

In wooded areas, this soil is managed primarily for loblolly pine. Competition from undesirable plant species is the main limitation affecting use and management. Intensive site preparation, such as chopping, burning, and applying herbicides, helps to control the competition from undesirable plant species. Based on a 50-year site curve, the mean site index for loblolly pine is 75 feet.

The perched water table, the slow or moderately slow permeability in the lower part of the subsoil, and a moderate shrink-swell potential are the main limitations affecting building site development and septic tank absorption fields in areas of this soil. Installing drainage systems next to footings, adequately sealing foundations, and land shaping so that surface water and runoff are directed away from dwellings can minimize problems caused by wetness. Installing diversions that intercept runoff from the higher areas can also minimize problems caused by wetness that affect septic tank absorption fields. Increasing the size of the septic tank absorption field can help to minimize the permeability limitation. Placing extra reinforcement in footings and foundations and backfilling with sandy material can minimize the damage caused by the shrinking and swelling of clay. A specially designed septic system may be needed.

The land capability subclass is IIe. Based on loblolly pine as the indicator species, the woodland ordination symbol is 7A.

Sediment Calc's

TEMPORARY SEDIMENT TRAP 1 (Pre-Construction)					
DRAINAGE AREA	1.62	Acres			
DISTURBED AREA	1.62	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	4.01	cfs			
Q10 DESIGN FLOW	5.47	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	1.62	5832.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	1746.76	Ft2		
				Note These are	
Trap Size:	Length	100.00		Bottom	
	Width	41.00		Dimensions	
	Approximate Area	4100.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	5.47	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	5.47		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	2.04		
	Try 8' Long Spillway				
	Acting Depth = (Q/CL)^0.67				
		Q=	5.47		
		C=	2.68		
		L=			
		Depth=	#VALUE!		
	Velocity = Q/A				
		Q=	5.47		
		A=D*L	#VALUE!		
		V=	#VALUE!	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 1 (Post-Construction)					
DRAINAGE AREA	3.47	Acres			
DISTURBED AREA	3.47	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	8.59	cfs			
Q10 DESIGN FLOW	11.71	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	3.47	12492.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	3741.80	Ft2		
Trap Size:	Length	100.00	Note	These Dimensions	
	Width	41.00	Are	Bottom Dim.	
	Approximate Area	4100.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	11.71	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	11.71		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	4.37		
For Spillway on	Try 8' Long Spillway				
Traps 1 & 2	Acting Depth = (Q/CL)^0.67				
Increase Wer		Q=	11.71		
Length to 12'		C=	2.68		
		L=	8.00		
		Depth=	0.67		
	Velocity = Q/A				
		Q=	11.71		
		A=D*L	5.33		
		V=	2.20	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 2 (Pre-Construction)					
DRAINAGE AREA	1.62	Acres			
DISTURBED AREA	1.62	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	4.01	cfs			
Q10 DESIGN FLOW	5.47	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	1.62	5832.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	1746.76	Ft2		
Trap Size:	Length	30.00	These Are		
	Width	60.00	Bottom Dimensions		
	Approximate Area	1800.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	

TEMPORARY SEDIMENT TRAP 2 (Post-Construction)					
DRAINAGE AREA	3.47	Acres			
DISTURBED AREA	3.47	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	8.59	cfs			
Q10 DESIGN FLOW	11.71	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	3.47	12492.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	3741.80	Ft2		
Trap Size:	Length	100.00	These Are		
	Width	41.00	Bottom Dimensions		
	Approximate Area	4100.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	5.47	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	5.47		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	2.04		
Traps 1 & 2	Try 8' Long Spillway				
Weir Length to Be	Acting Depth = (Q/CL)^0.67				
12'		Q=	5.47		
		C=	2.68		
		L=	8.00		
		Depth=	0.40		
	Velocity = Q/A				
		Q=	5.47		
		A=D*L	3.20		
		V=	1.71	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 3 - (Pre-Construction)					
DRAINAGE AREA	0.00	Acres			
DISTURBED AREA	0.00	Acres			
C	0.00	Bare Earth			
Tc	0.00	minutes			
I(2 year storm)	0.00	in/hr			
I(10year storm)	0.00				
Q2 DESIGN FLOW	0.00	cfs			
Q10 DESIGN FLOW	0.00	cfs			
TRAP CAPACITY (minimum)	0.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	0.00	0.00	0.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	0.00	Ft2		
Trap Size:	Length	0.00			
	Width	0.00			
	Approximate Area	0.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	#DIV/0!	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	0.00	Ft		
	Top width	0.00	Ft	Minimum	
	Side slopes	0.00		Machine compacted	

TEMPORARY SEDIMENT TRAP 3 (Post-Construction)					
DRAINAGE AREA	3.00	Acres			
DISTURBED AREA	3.00	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	2.99	cfs			
Q10 DESIGN FLOW	4.50	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	3.00	10800.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	1305.00	Ft2		
Trap Size:	Length	40.00	These Are		
	Width	40.00	Bottom Dimensions		
	Approximate Area	1600.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	8.28	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	4.50	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	4.50		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	1.68		
Traps 1 & 2	Try 8' Long Spillway				
Need 12' Weir	Acting Depth = (Q/CL)^0.67				
Length		Q=	4.50		
		C=	2.68		
		L=	8.00		
		Depth=	0.35		
	Velocity = Q/A				
		Q=	4.50		
		A=D*L	2.81		
		V=	1.60	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 4 - Pre Construction					
DRAINAGE AREA	4.00	Acres			
DISTURBED AREA	4.00	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	9.90	cfs			
Q10 DESIGN FLOW	13.50	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	4.00	14400.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	4312.44	Ft2		
Trap Size:	Length	72.00	These Are		
	Width	65.00	Bottom Dimensions		
	Approximate Area	4680.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	
Note: Inspection and approval by land quality is required to remove this trap during construction.					

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	13.50	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	13.50		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	5.04		
Traps 1 & 2	Try 8' Long Spillway				
Weir Length 12'	Acting Depth = (Q/CL)^0.67				
		Q=	13.50		
		C=	2.68		
		L=	8.00		
		Depth=	0.73		
	Velocity = Q/A				
		Q=	13.50		
		A=D*L	5.87		
		V=	2.30	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 4 - Post Construction					
DRAINAGE AREA	0.50	Acres			
DISTURBED AREA	0.50	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	1.23	cfs			
Q10 DESIGN FLOW	1.68	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	0.50	1800.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	535.79	Ft2		
Trap Size:	Length	40.00	These Are		
	Width	20.00	Bottom Dimensions		
	Approximate Area	800.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.36	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	
Note: Inspection and approval by land quality is required to remove this trap during construction.					

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	1.68	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	1.68		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	0.63		
Traps 1:2	Try 8' Long Spillway				
Weir Length	Acting Depth = (Q/CL)^0.67				
12'		Q=	1.68		
		C=	2.68		
		L=	8.00		
		Depth=	0.18		
	Velocity = Q/A				
		Q=	1.68		
		A=D*L	1.45		
		V=	1.16	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 5 - Pre-Construction					
DRAINAGE AREA	4.00	Acres			
DISTURBED AREA	4.00	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	9.90	cfs			
Q10 DESIGN FLOW	13.50	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	4.00	14400.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	4312.44	Ft2		
Trap Size:	Length	72.00	These Are		
	Width	65.00	Bottom Dimensions		
	Approximate Area	4680.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	
Note: Inspection and approval by land quality is required to remove this trap during construction.					

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	13.50	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	13.50		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	5.04		
Traps 1 & 2	Try 8' Long Spillway				
Weir Length 12'	Acting Depth = (Q/CL)^0.67				
		Q=	13.50		
		C=	2.68		
		L=	8.00		
		Depth=	0.73		
	Velocity = Q/A				
		Q=	13.50		
		A=D*L	5.87		
		V=	2.30	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

TEMPORARY SEDIMENT TRAP 5 - Post-Construction					
DRAINAGE AREA	0.80	Acres			
DISTURBED AREA	0.80	Acres			
C	0.45	Bare Earth			
Tc	5.00	minutes			
I(2 year storm)	5.50	in/hr			
I(10year storm)	7.50				
Q2 DESIGN FLOW	1.98	cfs			
Q10 DESIGN FLOW	2.70	cfs			
TRAP CAPACITY (minimum)	3600.00	Ft3			
	Ft3	Acres	Required Volume		
Required sediment volume	3600.00	0.80	2880.00	Ft3	
Required Surface Area	Surface Area = Q2 x 0.01 x 43560				
	Surface Area=	862.49	Ft2		
Trap Size:	Length	21.00	These are		Bottom
	Width	42.00	Dimensions		
	Approximate Area	882.00	Ft2		
Depth Required=	Volume (Ft3) / Surface Area (Ft2)				
	Depth Required=	3.34	Ft		
	Actual Depth Used=	3.50	Ft		
EMBANKMENT					
	Height	8.00	Ft		
	Top width	5.00	Ft	Minimum	
	Side slopes	2:1		Machine compacted	
Note: Inspection and approval by land quality is required to remove this trap during construction.					

SPILLWAY FOR TEMPORAY SEDIMENT TRAPS					
Broad-crested weir					
$Q=C_1LH^{3/2} + C_2ZH^{5/2}$					
Q = Discharge (cfs)					
Cw = Coefficient of discharge					
L = Length of weir (ft), measured along the crest					
H = Driving head (ft),					
Qdesign	2.70	cfs - 10 yr storm			
C_1	2.80	Trapizoidal Sharp-Crested Weir			
L	5.00	ft			
H	1.00	ft			
C_2	2.50	Trapizoidal Sharp-Crested Weir			
Z	2.00	Side Slope			
Q=	19.00	cfs	Q > Qdesign, OK		
STONE OUTLET SECTION					
	Spillway depth = 1.5' - 0.5'Freeboard = 1'				
	Lmin = Q/CH^1.5				
		Q=	2.70		
		C=	2.68	Coefficient	
		H=	1.00	Spillway Depth	
		Lmin=	1.01		
Traps 1 & 2	Try 8' Long Spillway				
Weir Length 12'	Acting Depth = (Q/CL)^0.67				
		Q=	2.70		
		C=	2.68		
		L=	8.00		
		Depth=	0.25		
	Velocity = Q/A				
		Q=	2.70		
		A=D*L	2.00		
		V=	1.35	< 4fps, OK	
	Sides slopes	2:1			
	Stone size	d50= 9 inches, dmax = 14 inches;			
		1 foot layer of 3/4 inch gravel placed on			
		inside upstream face of stone section			

Financial Responsibility Form

FINANCIAL RESPONSIBILITY/OWNERSHIP FORM
SEDIMENTATION POLLUTION CONTROL ACT

No person may initiate any land-disturbing activity on one or more acres as covered by the Act before this form and an acceptable erosion and sedimentation control plan have been completed and approved by the Land Quality Section, N.C. Department of Environment and Natural Resources. (Please type or print and, if the question is not applicable or the e-mail and/or fax information unavailable, place N/A in the blank.)

Part A.

1. Project Name WAYNE Long Mini Storage Project
2. Location of land-disturbing activity: County Halifax City or Township Halifax
   Highway/Street Hwy 125 Latitude 36 20 20.3 Longitude 77 36 05.25
3. Approximate date land-disturbing activity will commence: 10/1/08
4. Purpose of development (residential, commercial, industrial, institutional, etc.): Commercial
5. Total acreage disturbed or uncovered (including off-site borrow and waste areas): 1
6. Amount of fee enclosed: $_____. The application fee of $65.00 per acre (rounded up to the next acre) is assessed without a ceiling amount (Example: a 9-acre application fee is $585).
7. Has an erosion and sediment control plan been filed? Yes____ No____ Enclosed ✓
8. Person to contact should erosion and sediment control issues arise during land-disturbing activity:
   Name Russell Grant E-mail Address hrh Grant@embarqmail.com
   Telephone 252 536-0203 Cell # 252 536-1630 Fax # _____
9. Landowner(s) of Record (attach accompanied page to list additional owners):
   WAYNE Long — Name; 252 5327087 — Telephone; Fax Number
   7474 Hwy 125 — Current Mailing Address; Current Street Address
   Halifax NC 27835 — City State Zip; City State Zip
10. Deed Book No. 205 Page No. 329 Provide a copy of the most current deed.
    2127 - 278-285

Part B.

1. Person(s) or firm(s) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on an attached sheet):
   Plumbline Corp P.A. — Name; hrh Grant@embarqmail.com — E-mail Address
   121 Washington Ave — Current Mailing Address; Current Street Address
   Weldon NC 27890 — City State Zip; City State Zip
   Telephone 252 536-0203 Fax Number 252-536-0203

2. (a) If the Financially Responsible Party is not a resident of North Carolina, give name and street address of the designated North Carolina Agent:

Name _____ E-mail Address _____

Current Mailing Address _____ Current Street Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Telephone _____ Fax Number _____

(b) If the Financially Responsible Party is a Partnership or other person engaging in business under an assumed name, **attach a copy of the Certificate of Assumed Name.** If the Financially Responsible Party is a Corporation, give name and street address of the Registered Agent:

Name of Registered Agent _____ E-mail Address _____

Current Mailing Address _____ Current Street Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Telephone _____ Fax Number _____

The above information is true and correct to the best of my knowledge and belief and was provided by me under oath (This form must be signed by the Financially Responsible Person if an individual or his attorney-in-fact, or if not an individual, by an officer, director, partner, or registered agent with the authority to execute instruments for the Financially Responsible Person). I agree to provide corrected information should there be any change in the information provided herein.

Henry Russell Grant — Type or print name

V.P. Plumbline Corp PA — Title or Authority

Signature

6/20/08 — Date

I, Richard B. Lynn, a Notary Public of the County of Halifax State of North Carolina, hereby certify that Henry Russell Grant appeared personally before me this day and being duly sworn acknowledged that the above form was executed by him.

Witness my hand and notarial seal, this 20th day of June, 2008

Richard B. Lynn
Notary

Seal

RICHARD B. LYNN NOTARY PUBLIC HALIFAX COUNTY, N.C.

My commission expires August 13, 2011

Check Lists

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
LAND QUALITY SECTION

EROSION and SEDIMENTATION CONTROL PLAN PRELIMINARY REVIEW CHECKLIST

The following items shall be incorporated with respect to specific site conditions, in an erosion & sediment control plan:

LOCATION INFORMATION

- ✓ Project location (roads, streets, landmarks)
- ✓ North arrow and scale

GENERAL SITE FEATURES (Plan elements)

- ✓ Legend: North arrow, scale, etc.
- ✓ Property lines
- ✓ Existing contours (topographic lines)
- ✓ Proposed contours
- ✓ Limits of disturbed area (provide acreage total, delineate limits, and label)
- ✓ Planned and existing building locations and elevations
- ✓ Planned & existing road locations & elevations
- ✓ Lot and/or building numbers
- ✓ Geologic features: rock outcrops, seeps, springs, wetland and their limits, streams, lakes, ponds, dams, etc.
- ✓ Easements and drainage ways
- N/A Profiles of streets, utilities, ditch lines, etc.
- N/A Stockpiled topsoil or subsoil locations
- N/A If the same person conducts the land-disturbing activity & any related borrow or waste activity, the related borrow or waste activity shall constitute part of the land-disturbing activity unless the borrow or waste activity is regulated under the Mining Act of 1971, or is a landfill regulated by the Division of Waste Management. If the land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land-disturbing activities and must be permitted either thru the Sedimentation Pollution Control Act as a **one-use borrow site** or through the Mining Act.
- N/A Required Army Corps 404 permit and Water Quality 401 certification (e.g. stream disturbances over 150 linear feet)

EROSION CONTROL MEASURES (on plan)

- ✓ Legend
- ✓ Location of temporary measures
- ✓ Location of permanent measures
- ✓ Construction drawings and details for temporary and permanent measures
- ✓ Maintenance requirements of measures
- ✓ Contact person responsible for maintenance

SITE DRAINAGE FEATURES

- ✓ Existing and planned drainage patterns (include off-site areas that drain through project)
- ✓ Method of determination of and calculations for Acreage of land being disturbed
- ✓ Size and location of culverts and sewers
- ✓ Soil information: type, special characteristics
- ✓ Soil information below culvert storm outlets
- ✓ Name and classification of receiving water course or name of municipal operator (only where stormwater discharges are to occur)

STORMWATER CALCULATIONS

- ✓ Pre-construction runoff calculations for each outlet from the site (at peak discharge points)
- ✓ Design calculations for peak discharges of runoff (including the construction phase & the final runoff coefficients of the site)
- N/A Design calcs of culverts and storm sewers
- Discharge and velocity calculations for open channel and ditch flows (easement & right-of-ways)
- N/A Design calcs of cross sections and method of stabilization of existing and planned channels (include temporary linings)
- ✓ Design calcs and construction details of energy dissipators below culvert and storm sewer outlets (diameters & apron dimensions)
- ✓ Design calcs and dimension of sediment basins
- ✓ Surface area and settling efficiency information for proposed sediment traps and/or basins

VEGETATIVE STABILIZATION

- ✓ Area & acreage to be vegetatively stabilized
- ✓ Method of soil preparation
- ✓ Seed type & rates (temporary & permanent)
- ✓ Fertilizer type and rates
- ✓ Mulch type and rates

NOTE: **Plan should include provisions for groundcover on exposed slopes within 21 calendar days following completion of any phase of grading; permanent groundcover for all disturbed areas within 15 working days or 90 calendar days (whichever is shorter) following completion of construction or development.** ✓

FINANCIAL RESPONSIBILITY/OWNERSHIP FORM

- ✓ Completed, signed & notarized FR/O Form
- ✓ Accurate application fee ($65.00 per acre rounded up the next acre with no ceiling amount)
- N/A Certificate of assumed name, if the owner is a partnership
- N/A Name of Registered Agent (if applicable)
- ✓ Copy of the most current Deed for the site

NOTE: **For the Express Permitting Option, inquire at the local Regional Office for availability.**

NARRATIVE AND CONSTRUCTION SEQUENCE

- ✓ Narrative describing the nature & purpose of the construction activity
- ✓ Construction sequence related to erosion and sediment control (including installation of critical measures prior to the initiation of the land-disturbing activity & removal of measures after areas they serve are permanently stabilized)
- N/A Bid specifications related only to erosion control

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT,
AND NATURAL RESOURCES
LAND QUALITY SECTION

EROSION AND SEDIMENTATION CONTROL PLAN CHECKLIST

The following items shall be incorporated with respect to specific site conditions, in an erosion and sedimentation control plan

LOCATION INFORMATION

- ✓ Project location
- ✓ Roads, street
- ✓ North arrow
- ✓ Scale
- ✓ Adjoining lakes, streams or other major drainage ways

GENERAL SITE FEATURES

- ✓ North arrow
- ✓ Scale-
- ✓ Property line
- ✓ Legend
- ✓ Existing contours
- ✓ Proposed contours
- ✓ Limit and acreage of disturbed area
- ✓ Planned and existing building locations and elevations
- ✓ Planned and existing road locations and elevations
- ✓ Lot and/or building numbers ? Parcel #s
- ✓ Land use of surrounding areas
- ✓ Rock outcrops
- ✓ Seeps or springs
- ✓ Wetland limits N/A
- ✓ Easements
- ✓ Streams, lakes, ponds, drainage ways, dams N/A
- ✓ Boundaries of the total tract
- ✓ If the same person conducts the land-disturbing activity and any related borrow or waste activity, the related borrow or waste activity shall constitute part of the land-disturbing activity unless the borrow or waste activity is regulated under the Mining Act of 1971, or is a landfill regulated by the Division of Solid Waste Management. If the land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land-disturbing activities
- N/A Stockpiled topsoil or subsoil location
- ___ Street profiles N/A

SITE DRAINAGE FEATURES

- ✓ Existing and planned drainage patterns (include off-site areas that drain through project)
- ✓ Size of Areas to be disturbed (Acreage) 11.52
- ✓ Size and location of culverts and sewers
- ✓ Soils information (type, special characteristics)
- ✓ Design calculations for peak discharges of runoff (including the construction phase and final runoff coefficients of the site)
- NA Design calculations and construction details for culverts and storm sewers
- N/A Design calculations cross sections and method of stabilization of existing and planned channels (include temporary linings)
- ✓ Design calculations and construction details of energy dissipators below culvert and storm sewer outlets (for rip-rap aprons, include stone sizes (diameters and apron dimensions)
- N/A Soil information below culvert storm outlets
- N/A Design calculations and construction details to control ground-water, i.e., seeps, high water table, etc.
- ✓ Names of receiving watercourse or name of municipal operator (only where stormwater discharges are to occur)

EROSION CONTROL MEASURES

- ✓ Legend
- ✓ Location of temporary and permanent measures
- ✓ Construction drawings and details for temporary and permanent measures
- ✓ Design calculations for sediment basin and other measures
- ✓ Maintenance requirements during construction on Detail Shee
- ✓ Person responsible for maintenance during construction Russell Gra
- ✓ Maintenance requirements and responsible person(s) of permanent measures Wayne Long

VEGETATIVE STABILIZATION

- 11.52 Areas and acreage to be vegetatively stabilized
- ✓ Planned vegetation with details of plants, seed, mulch and fertilizer on Details
- ✓ Specifications for permanent and temporary vegetation On Details
- ✓ Method of soil preparation On Detail Sheet

NOTE: Should include provision for ground cover on exposed slopes within 30 working days following completion of any phase of grading, permanent ground cover for all disturbed areas within 30 working days or 120 calendar days (which- ever is shorter) following completion of construction or development.

OTHER REQUIREMENTS

- ✓ Narrative describing construction sequence (as needed)
- ✓ Narrative describing the nature and purpose of the construction activity
- ✓ Completed Financial Responsibility/Ownership Form (to be signed by person financially responsible for project
- ✓ Bid specifications regarding erosion control
- ✓ Construction sequence related to sedimentation and erosion control (include installation of critical measures prior to initiation of the land-disturbing activity and removal of measures after areas they serve have been permanently stabilized)

DEEDS

BOOK 2127 PAGE 278

Doc ID: 000318650008 Type: CRP
Recorded: 04/04/2006 at 12:44:08 PM
Fee Amt: $35.00 Page 1 of 8
Instr# 200500013180
Halifax, NC
Judy Evans-Barbee Register of Deeds
BK 2127 PG 278-285

Judy Evans-Barbee
Register of Deeds

RF 35.00

Prepared by: Vernon T. Bradley

NORTH CAROLINA
HALIFAX COUNTY

THIS DEED made this 3rd day of April, 2006, by VERNON T. BRADLEY, JR., TRUSTEE, under the VERNON T. BRADLEY, JR. LIVING TRUST dated January 31, 1996, and any amendments thereto, the GRANTOR, to GEORGE WAYNE LONG, DIVORCED, whose address is 1305 Johnston St., Roanoke Rapids, North Carolina, the GRANTEE.

WITNESSETH, that the GRANTOR in consideration of the sum of $10.00 and other good and valuable consideration to him paid by the GRANTEE, the receipt of which is hereby acknowledged, has bargained and sold and by these presents do grant, bargain, sell, and convey unto the GRANTEE and his heirs and assigns, those certain tracts or parcels of land which are more particularly described as follows:

(SEE ATTACHED DESCRIPTIONS ON THE FOLLOWING PAGES)

10-00432	C-9 - 06681
10-00433	09-10538
10-00434	10-00204
11-01417	09-05257
C-906680	

The following described lots or parcels of land are the identical parcels of land which was conveyed to Vernon T. Bradley, Jr., Trustee, under the VERNON T. BRADLEY, JR. LIVING TRUST dated 1-31-96 by deed dated July 24, 2003 from George Wayne Long, Divorced, which is recorded in Book 2055, Page 350-357, Halifax County Public Registry.

Unofficial

923 Oakley Ave.
R.R.

TRACT ONE Those two (2) certain tracts or parcels of land lying and being situate in Halifax Township, Halifax County, North Carolina, one of which contains 1.20 acres and fronts on the eastern side of N.C. State Highway No. 125, and the other of which contains 5.84 acres and fronts on the western side of the right of way of SCX Railroad, both being more particularly shown and designated on that certain plat showing "Property of Wayne Long" which was made by Wm. Hunter Traylor, R.L.S., under date of March 4, 1997 and recorded in Plat Cabinet 6, slide 14-H, Halifax Public Registry; and being a portion of the property devised unto Joseph M. Hernandez by will of Etta P. Hernandez probated in File No. 92-E-24 of the Office of the Clerk of Superior Court for Halifax County, North Carolina; reference to said map and estate being hereby made for greater certainty of description.

This is the identical lot or parcel of land which was conveyed to Wayne Long by deed dated March 18, 1997 from Joseph M. Hernandez, Sr., widower which is recorded in Book 1701, page 160 in the Office of the Register of Deeds of Halifax County.

TRACT TWO All those certain four (4) parcels of land situate in Halifax Township, Halifax County, North Carolina, more fully described as follows:

Parcel One

BEGINNING at the point of intersection of the south line of SR 561 with the easterly line of lands acquired by Atlantic Coast Line Railroad Company from Evelyn Crowell, et al, by deed dated May 26, 1955, recorded in Deed Book 616, Page 542, being a corner of lands now or formerly of Thorne Gregory heirs; thence with the Gregory heirs lands the following three (3) courses: 1-South 06 degrees 07 minutes 12 seconds West 928.61 feet, 2-South 06 degrees 17 minutes 03 seconds West 577.42 feet, and 585.91 feet along the arc of a curve to the left having a radius of 450.00 feet and chord bearing and distance of South 31 degrees 00 minutes 57 seconds East 545.39 feet to a point, being 52 feet west of and radially to the centerline of Grantor's main line railroad track; thence concentric with and/or parallel to and distant 52 feet west of the centerline of the main line railroad track the following two (2) courses: 1-2189.42 feet along the arc of a curve to the left having a radius of 4794.00 feet and chord bearing and

Unofficial Copy

distance of South 18 degrees 56 minutes 38 seconds West 2170.44 feet to a point and 2-South 06 degrees 14 minutes 49 seconds West 232.60 feet to a point; thence North 84 degrees 15 minutes 00 seconds West 41.50 feet to a point; thence with other lands of the Thorne Gregory heirs the following five (5) courses: 1-North 06 degrees 04 minutes 18 seconds East 861.27 feet, 2-North 06 degrees 02 minutes 02 seconds East 498.29 feet, 3-North 06 degrees 05 minutes 19 seconds East 1006.71 feet, 4-North 06 degrees 02 minutes 42 seconds East 1498.21 feet, and 5-North 36 degrees 38 minutes 31 seconds West 260.24 feet to the south line of SR 561; thence with the south line of SR 561 the following two (2) courses: 1-North 59 degrees 00 minutes 00 seconds East 223.00 feet and North 69 degrees 29 minutes 36 seconds East 222.83 feet to the POINT OF BEGINNING; Containing 20.00 acres, more or less, according to a survey and plat thereof by W. Hunter Traylor, Registered Land Surveyor, dated February 15, 1997, incorporated herein by reference.

BEING a portion of the property acquired by Atlantic Coast Line Railroad Company, a predecessor of Grantor, by the following instruments, recorded among the Public Land Records of Halifax County, North Carolina:

Acquired From	Date of Instrument	Book	Page
F. H. Gregory, et al	07/11/1953	606	567
F. H. Gregory, et al	04/03/1957	637	173

Parcel Two

BEGINNING at the point of intersection of north line of SR 561 with Grantor's easterly property line at a corner of lands now or formerly of Samuel Turner; thence with the north line of SR 561, South 69 degrees 29 minutes 36 seconds West 222.83 feet to Grantor's westerly property line; thence with Grantor's westerly property line the following fifteen (15) courses: 1-North 05 degrees 57 minutes 55 seconds East 904.30 feet, 2-North 06 degrees 02 minutes 45 seconds East 201.00 feet, 3-North 83 degrees 57 minutes 15 seconds West 50.00 feet, 4-North 06 degrees 02 minutes 45 seconds East 900.00 feet, 5-South 83 degrees 57 minutes 15 seconds East 50.00 feet, 6-North 06 degrees 02 minutes 51 seconds East 100.00 feet, 7-North 06 degrees 18 minutes 10 seconds East 2253.77 feet, 8-North 03 degrees 06 minutes 00 seconds East 435.50 feet, 9-North 03 degrees 19 minutes 45 seconds East 195.15 feet, 10-North 02 degrees 06 minutes 55 seconds East 206.49 feet, 11-North 01 degree 04 minutes 54 seconds East 189.96 feet, 12-North 00 degrees 13 minutes 25 seconds East

Copy

206.88 feet, 13-North 00 degrees 46 minutes 29 seconds West 186.49 feet, 14-North 01 degrees 57 minutes 43 seconds West 197.90 feet, and 15-North 03 degrees 22 minutes 41 seconds West 112.29 feet to the south line of SR 903; thence with the south line of SR 903, South 58 degrees 37 minutes 41 seconds East 431.59 feet to Grantor's easterly property line; thence with Grantor's easterly property line the following twenty (20) courses: 1-South 28 degrees 55 minutes 31 seconds West 151.09 feet, 2-South 04 degrees 30 minutes 07 seconds West 301.15 feet, 3-South 81 degrees 09 minutes 43 seconds East 182.41 feet, 4-South 03 degrees 33 minutes 09 seconds West 422.35 feet, 5-North 79 degrees 16 minutes 19 seconds West 224.90 feet, 6-South 04 degrees 20 minutes 52 seconds West 265.59 feet, 7-South 79 degrees 35 minutes 13 seconds East 226.48 feet, 8-South 03 degrees 58 seconds 47 minutes West 396.90 feet, 9-North 78 degrees 14 minutes 13 seconds West 229.68 feet, 10-South 04 degrees 20 minutes 52 seconds West 190.02 feet, 11-South 06 degrees 03 minutes 54 seconds West 206.36 feet, 12-South 06 degrees 04 minutes 50 seconds West 1396.12 feet, 13-South 05 degrees 56 minutes 28 seconds West 499.55 feet, 14-South 06 degrees 05 minutes 00 seconds West 95.36 feet, 15-South 83 degrees 57 minutes 15 seconds East 50.00 feet, 16-South 06 degrees 03 minutes 56 seconds West 895.38 feet, 17-North 83 degrees 57 minutes 15 seconds West 50.00 feet, 18-South 06 degrees 02 minutes 17 seconds West 207.15 feet, 19-South 05 degrees 57 minutes 55 seconds West 298.43 feet, and 20-South 05 degrees 57 minutes 55 seconds West 500.07 feet to the POINT OF BEGINNING; Containing 34.45 acres, more or less, according to the survey and plat thereof by W. Hunter Traylor.

BEING a portion of the property acquired by Atlantic Coast Line Railroad Company, a predecessor of Grantor, by the following instruments, recorded among the Public Land Records of Halifax County, North Carolina:

Acquired From	Date of Instrument	Book	Page
J. S. Pope, et ux	01/26/1953	599	266
P. T. Neathery, et ux	01/26/1953	599	263
Estelle Lynch, et al	05/28/1953	601	314
Annie May Clanton, et al	04/29/1955	610	582
James Lynch, et ux	01/26/1953	599	268
Mamie Knight	01/26/1953	599	581

Copy

Laura Hargrove, et ux	07/06/1953	601	314
Donald Campbell, et ux	01/26/1953	599	263
Fannie Sweatt	01/26/1953	599	580
Cleo Sandalin, et ux	06/10/1953	601	298
James Fenner, et ux	01/26/1953	599	265
Pinke Ann Jones	01/26/1953	599	266
Leroy Long, et ux	01/26/1953	599	264
C. H. Byrd, et ux	01/26/1953	599	468
Sam Jones, et ux	06/20/1953	601	242
Rhodes Whitaker, et al	12/29/1954	610	233
Evelyn Crowell, et al	05/26/1955	616	542
Robert Crowell, et al	04/29/1955	610	581
F. H. Gregory, et al	07/11/1953	606	567

Parcel Three

BEGINNING at the point of intersection of the north line of SR 903 with Grantor's easterly property line at a corner of lands now or formerly of Donald M. Campbell; thence with the north line of SR 903, North 58 degrees 37 minutes 41 seconds West 243.18 feet to Grantor's westerly property line at or near the east line of Highway 125; thence with Grantor's westerly property line the following seventeen (17) courses: 1-North 03 degrees 22 minutes 41 seconds West 231.09 feet, 2-North 05 degrees 21 minutes 51 seconds West 395.20 feet, 3-North 07 degrees 49 minutes 49 seconds West 603.28 feet, 4-North 09 degrees 56 minutes 08 seconds West 198.38 feet, 5-North 11 degrees 18 minutes 02 seconds West 377.15 feet, 6-North 13 degrees 12 minutes 40 seconds West 395.37 feet, 7-North 15 degrees 17 minutes 22 seconds West 392.46 feet, 8-North 17 degrees 02 minutes 57 seconds West 205.15 feet, 9-North 17 degrees 24 minutes 06 seconds West 189.99 feet, 10-North 18 degrees 54 minutes 45 seconds West 201.11 feet, 11-North 19 degrees 08 minutes 08 seconds West 186.28 feet, 12-North 21 degrees 37 minutes 27 seconds West 218.96 feet, 13-North 21 degrees 40 minutes 27 seconds West 194.04 feet, 14-North 22 degrees 58 minutes 09 seconds West 200.44 feet, 15-North 23 degrees 43 minutes 27 seconds West 202.03 feet, 16-North 25 degrees 08 minutes 08 seconds West 204.85 feet, and 17-North 26 degrees 00 minutes 00 seconds West 577.91 feet to the south line of an old road; thence with the south line of the road North 85 degrees 54 minutes 00 seconds East 49.66 feet to a point, being 52 feet

southwest of and perpendicular to the centerline of Grantor's main line railroad track; thence parallel with and distant 52 feet southwest of the centerline of the main line railroad track, South 30 degrees 40 minutes 33 seconds East 1396.18 feet to a point; thence with Grantor's easterly property line the following thirteen (13) courses: 1-South 19 degrees 56 minutes 32 seconds East 152.13 feet, 2-South 20 degrees 33 minutes 45 seconds East 207.28 feet, 3-South 18 degrees 56 minutes 31 seconds East 203.87 feet 4-South 18 degrees 22 minutes 14 seconds East 209.82 feet, 5-South 16 degrees 50 minutes 20 seconds East 195.81 feet, 6-South 15 degrees 49 minutes 56 seconds East 204.35 feet, 7-South 14 degrees 17 minutes 33 seconds East 394.49 feet, 8-South 12 degrees 27 minutes 35 seconds East 251.84 feet, 9-South 12 degrees 39 minutes 31 seconds East 182.93 feet, 10-South 10 degrees 44 minutes 24 seconds East 208.37 feet, 11-South 08 degrees 26 minutes 28 seconds East 799.70 feet, 12-South 05 degrees 17 minutes 05 seconds East 391.73 feet, and 13-South 03 degrees 22 minutes 41 seconds East 376.87 feet to the POINT OF BEGINNING; Containing 20.22 acres, more or less, according to the survey and plat thereof by W. Hunter Traylor.

BEING a portion of the property acquired by Atlantic Coast Line Railroad Company, a predecessor of Grantor, by the following instruments, recorded among the Public Land Records of Halifax County, North Carolina:

Acquired From	Date of Instrument	Book	Page
Ruben Daniel, et ux	12/30/1953	606	293
Clarence Daniel	01/27/1954	606	384
Virginia Pierce, et vir	01/26/1954	606	386
Hannah Lynch, et vir	01/26/1954	606	385
Elizabeth Wilkins, et vir	01/26/1954	606	386
Robert Daniel, et ux	10/11/1954	609	573
R. A. Freuler, et ux	01/26/1953	599	267
Willie Page, et al	04/23/1954	609	116
Ruben Daniel, et ux	12/30/1953	606	293
Clarence Daniel	01/27/1954	606	384
Juanita Wilson, et vir	01/28/1954	606	384
Robert Daniels, et ux	10/11/1954	609	573
R. A. Freuler, et ux	01/26/1953	599	267

Original

Parcel Four

Commencing at the northeast corner of Parcel Three in the south line of an old road, also being 52 feet west of and perpendicular to the centerline of Grantor's main line railroad track; thence parallel with and distant 52 feet west of the centerline of the main line railroad track, North 30 degrees 40 minutes 33 seconds West 76.89 feet to the TRUE POINT OF BEGINNING in the north line of the old road; thence with the north line of the old road South 85 degrees 54 minutes 00 seconds West 91.00 feet to an existing iron pipe; thence North 36 degrees 20 minutes 17 seconds West 804.80 feet to a point; thence North 51 degrees 12 minutes 39 seconds East 162.42 feet to a point, being 52 feet west of and perpendicular to the centerline of Grantor's main line railroad track; thence parallel with and distant 52 feet west of the centerline of the main line railroad track, South 30 degrees 40 minutes 33 seconds East 864.51 feet to the POINT OF BEGINNING; LESS AND EXCEPT that portion of the above description within SR 125; containing 1.70 acres, more or less, according to the survey and plat thereof by W. Hunter Traylor.

BEING a portion of the property acquired by Atlantic Coast Line Railroad Company, a predecessor of Grantor, by the following instruments, recorded among the Public Land Records of Halifax County, North Carolina:

Acquired From	Date of Instrument	Book	Page
Opal Neathery, et vir	11/12/1956	627	208

On July 1, 1967 the Atlantic Coast Line Railroad Company merged with the Seaboard Air Line Railroad Company to form the Seaboard Coast Line Railroad Company. On December 29, 1982 the Louisville and Nashville Railroad Company merged into Seaboard Cost Line Railroad Company, and the name of the surviving corporation changed to Seaboard System Railroad, Inc. On July 1, 1986, Seaboard System Railroad, Inc. changed its name to CSX Transportation, Inc.

These are the identical lots or parcels of land which was conveyed to George Wayne Long and Phyllis Lee Long, by deed dated April 14, 1997, from CSX Transportation, Inc., which is recorded in Book 1704, page 141, in the Office of the Register of Deeds of Halifax County. Also see Deed Book 1837-Page 711, Halifax County Registry of Deeds.

Unofficial Copy

(8)

By the acceptance of this deed, George Wayne Long acknowledges that he is responsible for the taxes for the years of 2003, 2004, 2005, and 2006 and that he has paid for the 2003, 2004, and 2005 taxes, and that he alone is responsible for the 2006 taxes and that he will pay for the 2006 taxes on all of this property listed in this deed.

TO HAVE AND TO HOLD the aforesaid tracts or parcels of land together with all privileges and appurtenances thereto belonging, unto him, the GRANTEE, his heirs, assigns, and legal representatives, in fee simple forever.

AND the said GRANTOR for himself and his heirs, assigns, and legal representatives, that he is seized of the above described tracts or parcels of land in fee simple, that the same are free and clear from all encumbrances, and that he does hereby forever warrant and will forever defend the title to the same against the lawful claims of all persons whomsoever.

IN TESTIMONY WHEREOF the said GRANTOR has hereunto set his hand and seal, the day and year first above written.

Vernon T. Bradley Jr. (SEAL)
Vernon T. Bradley, Jr., Trustee, under the VERNON T. BRADLEY, JR. LIVING TRUST dated Jan 31, 1996

NORTH CAROLINA
HALIFAX COUNTY

I, a Notary Public of the County and State aforesaid, certify that Vernon T. Bradley, Jr., Trustee, under the VERNON T. BRADLEY, JR. LIVING TRUST dated 1-31-96, GRANTOR, personally appeared before me this day and acknowledged the due execution of the foregoing instrument. Witness my hand and official seal this 4th day of April, 2006.

NOTARY PUBLIC HALIFAX COUNTY, N.C. FOREMAN BURNELL

MY COMMISSION EXPIRES:
4-23-2007 Roy Foreman Burnell
NOTARY PUBLIC

Official

HALIFAX COUNTY NC 10/18/2004
$14.00
STATE OF NORTH CAROLINA
Real Estate Excise Tax

FILED FOR REGISTRATION AND RECORDED
12:11 O'CLOCK P.M.
Oct. 18 20 04 IN BOOK
2051 PAGE 329
Judy Evans-Barbee
Register Of Deeds, Halifax County H

BOOK 2051 PAGE 329

RF 17.00

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax: $ 14.00

Parcel Identifier No. 06-01329 Verified by _____ County on the ____ day of _____, 20__
By: _____

Mail/Box to: A. S. Godwin Jr.

This instrument was prepared by: A. S. Godwin Jr.

Brief description for the Index: _____

THIS DEED made this 18 day of October, 20 04, by and between

GRANTOR	GRANTEE
KATY F. BARNES, unmarried and CAROLYN F. TOWNSEND, widow	GEORGE WAYNE LONG 1305 Johnston Street Roanoke Rapids, N.C. 27870

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of _____, Halifax Township, Halifax County, North Carolina and more particularly described as follows:

TRACT ONE: 1.84 acres being a portion of Lot No. ELEVEN (11), Plat Cabinet 2 Slide 85.

TRACT TWO: 0.38 acres; and 0.16 acre all on the East side of N.C. Highway No. 125.

Tracts One and Two shown on survey plat dated September 22, 2004 prepared by William Hunter Traylor, P.L.S.

The property hereinabove described was acquired by Grantor by instrument recorded in Book _____ page _____.

A map showing the above described property is recorded in Plat ~~Book~~ Cabinet 6 ~~page~~ Slide 120-J.

NC Bar Association Form No. 3 © 1976, Revised © 1977, 2002
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BOOK 2051 PAGE 330

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever, other than the following exceptions:

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

_____ (Entity Name)

By: _____ Title: _____

By: _____ Title: _____

By: _____ Title: _____

USE BLACK INK ONLY

Katy F. Barnes (SEAL)
KATY F. BARNES

_____ (SEAL)

Carolyn F. Townsend (SEAL)
CAROLYN F. TOWNSEND

_____ (SEAL)

SEAL-STAMP

Official Seal
MARY ELIZABETH GODWIN
Notary Public
Halifax County, N.C.

USE BLACK INK ONLY

State of North Carolina - County of Halifax

I, the undersigned Notary Public of the County and State aforesaid, certify that Katy F. Barnes and Carolyn F. Townsend personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this 18 day of October, 2004

My Commission Expires: 10/5/07 Mary Elizabeth Godwin
Notary Public

SEAL-STAMP

USE BLACK INK ONLY

State of North Carolina - County of _____

I, the undersigned Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is the _____ of _____, a North Carolina or _____ corporation/limited liability company/general partnership/limited partnership (strike through the inapplicable), and that by authority duly given and as the act of each entity, he signed the forgoing instrument in its name on its behalf as its act and deed. Witness my hand and Notarial stamp or seal this _____ day of _____, 20__.

My Commission Expires: _____
Notary Public

SEAL-STAMP

USE BLACK INK ONLY

State of North Carolina - County of _____

I, the undersigned Notary Public of the County and State aforesaid, certify that _____

Witness my hand and Notarial stamp or seal this _____ day of _____, 20__.

My Commission Expires: _____
Notary Public

The foregoing Certificate(s) of Mary Elizabeth Godwin, Notary Public of Halifax Co. is/are certified to be correct.
This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

Judy Evans-Barbee Register of Deeds for Halifax County
By: Barbara N. Hux Deputy/~~Assistant~~ - Register of Deeds

NC Bar Association Form No. 3 © 1976, Revised © 1977, 2002
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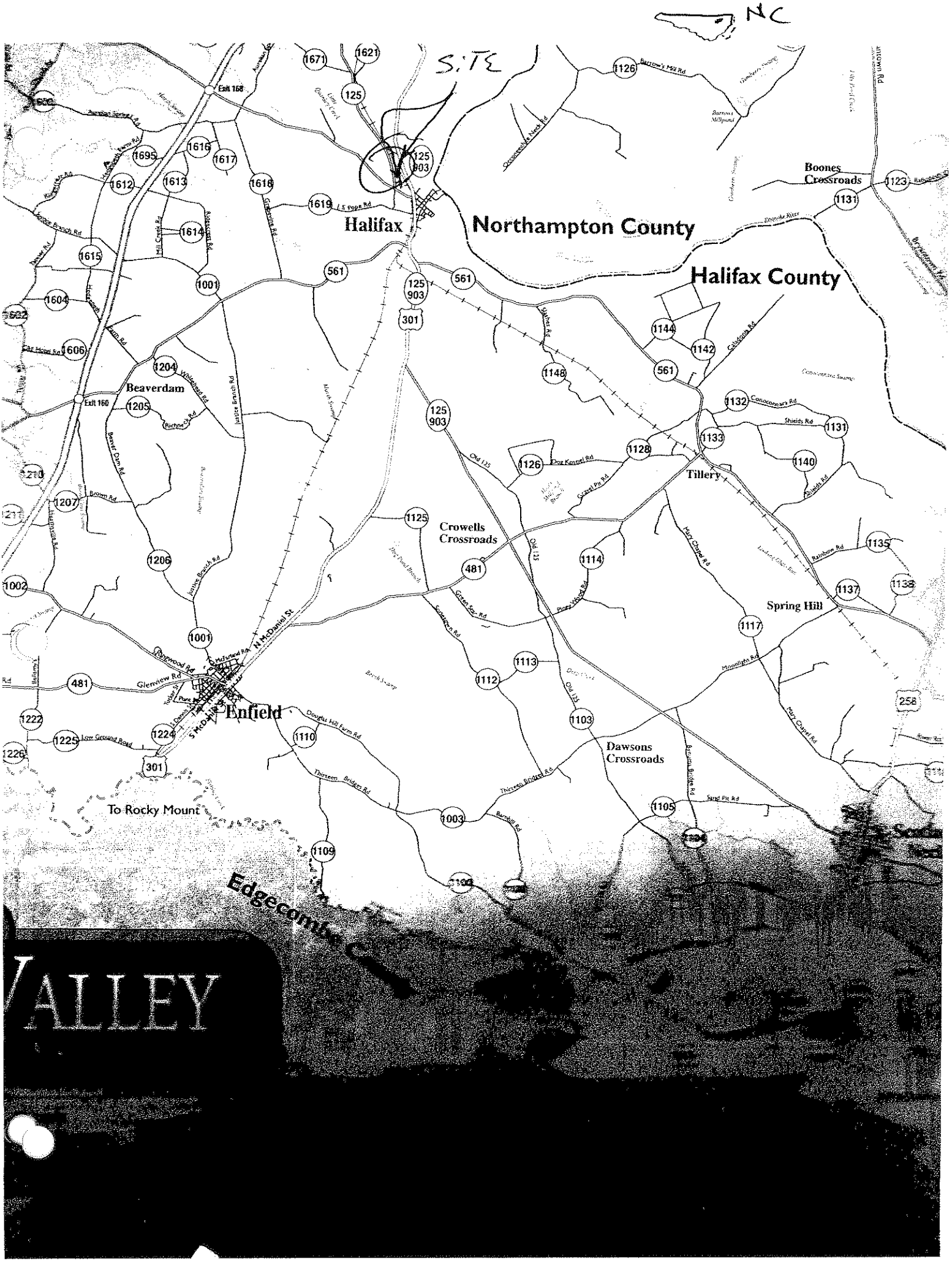
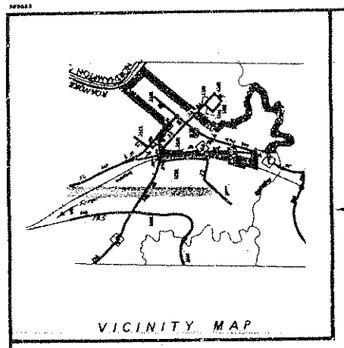
Maps


NC
SITE
Halifax
Northampton County
Halifax County
Boones Crossroads
Beaverdam
Tillery
Crowells Crossroads
Spring Hill
Enfield
Dawsons Crossroads
To Rocky Mount
Edgecombe
VALLEY



LEGEND

- Lines Surveyed
- Lines Not Surveyed
- EIP — Existing Iron Pipe Corner Corner
- ECM — Existing Concrete Monument
- NIP — New Iron Pipe
- PKN — P K Nail
- DMD — Double Meridian Distance
- R/W — Right of Way
- DB — Deed Book
- CM — Concrete Monument
- ELS — Existing Lightwood Stake

NORTH CAROLINA
HALIFAX COUNTY

I, WM. HUNTER TRAYLOR certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book ____, page ____ etc.) (other); that the boundaries not surveyed are clearly indicated as drawn from information found in Book ____, page ____; that the ratio of precision as calculated is 1: ____; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number and seal this 4 day of MARCH A.D., 19 97.

Seal or Stamp

Surveyor

L-3077
Registration Number

NORTH CAROLINA
HALIFAX COUNTY

I, a Notary Public of the County and State aforesaid, certify that WM. HUNTER TRAYLOR a registered land surveyor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 4 day of MARCH 19 97.

Wanda H. Traylor
Notary Public

My Commission expires 2-09-99

NORTH CAROLINA
Halifax COUNTY

Halifax Co

The foregoing certificate of Wanda H. Traylor Notary Public is certified to be correct. This instrument was presented for registration and recorded in Plat Book 6 Page 114 This March 31 1997 at 11:45 A.M.

Judy Carson-Parker
Register of Deeds

Assistant Reg. of Deeds

☐ a. That the plat is of a survey that creates a subdivision of land within the area of a county or municipality that has an ordinance that regulates parcels of land;

☒ b. That the plat is of a survey of an existing parcel or parcels of land;

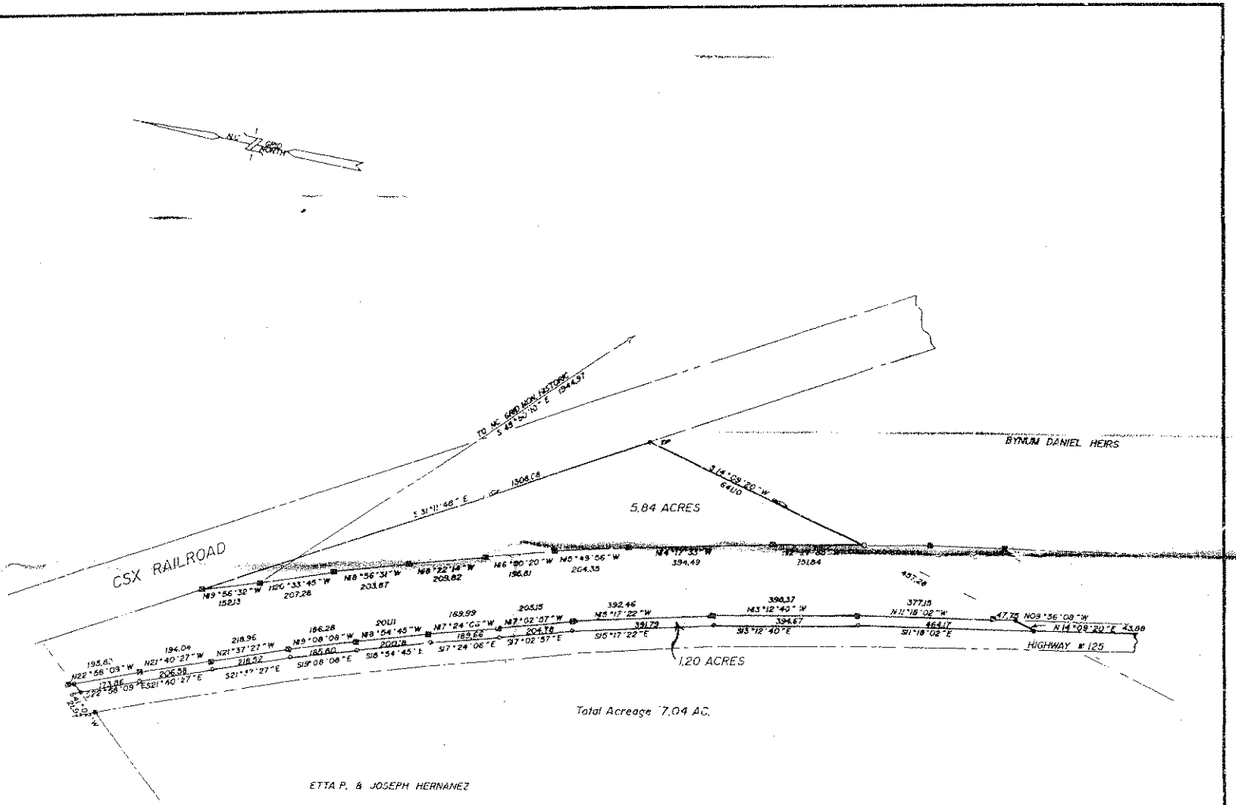
☐ c. That the plat is of a survey of another category, such as the recombination of existing parcels, a court-ordered survey or other exception to the definition of subdivision;

☐ d. That the information available to this surveyor is such that I am unable to make a determination to the best of my professional ability as to provisions contained in (a) through (c) above.

Seal or Stamp

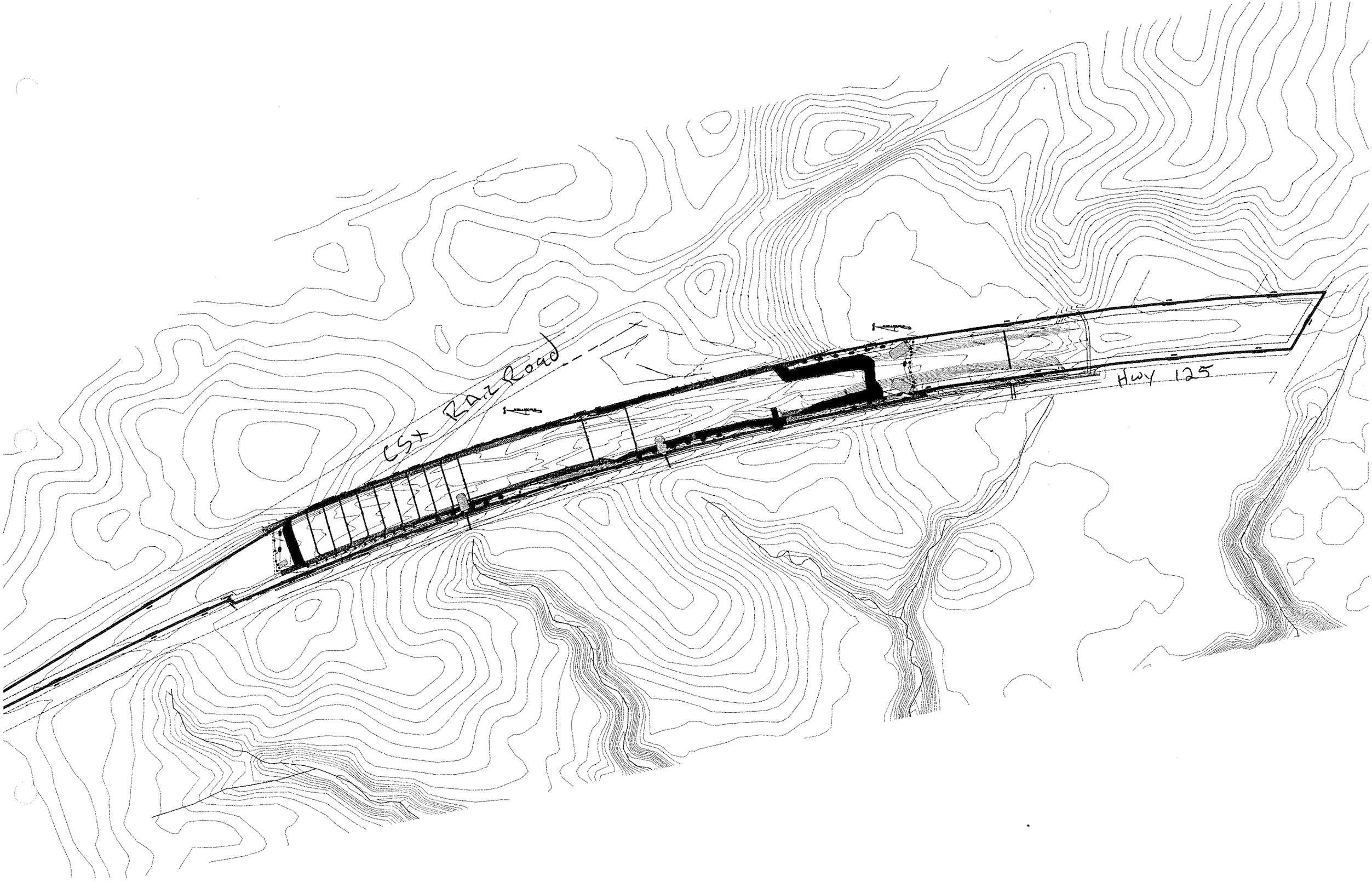
Registered Land Surveyor, No. ____

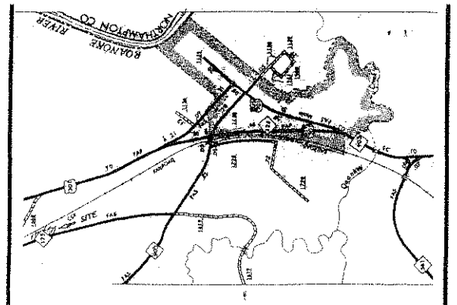
Recorded in Book of Maps ____ Vol. ____ Pg. ____



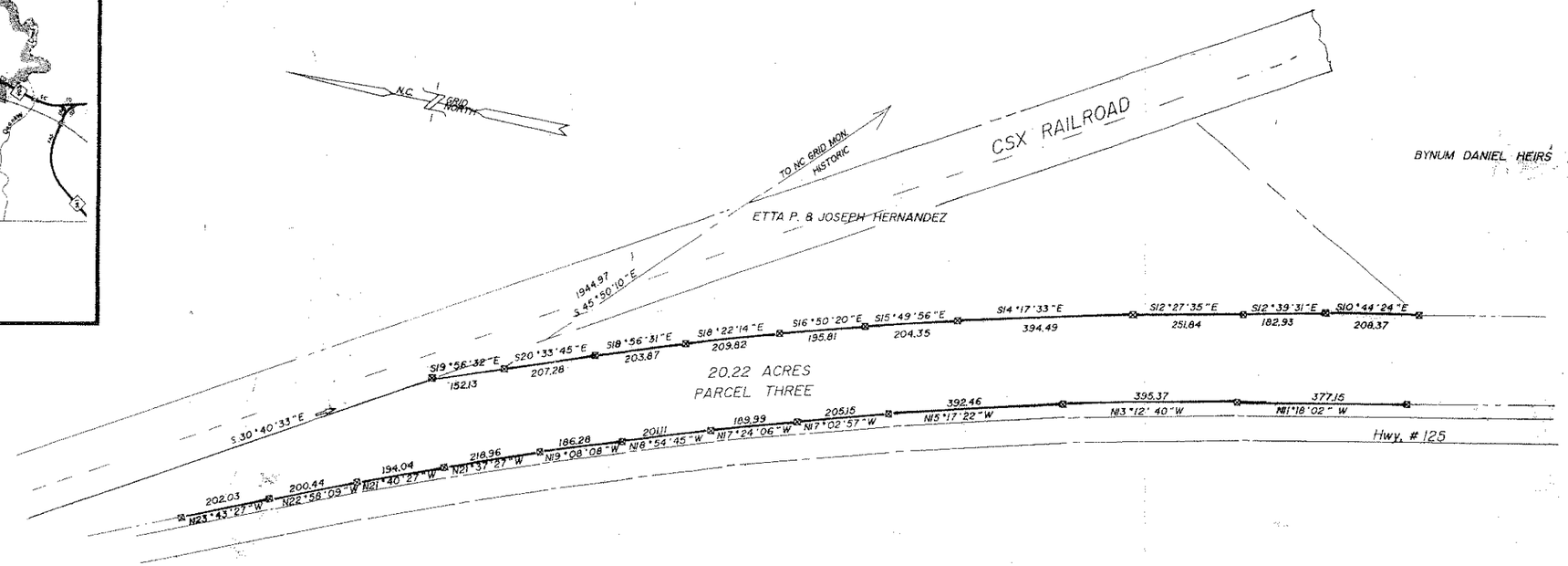
REVISIONS	PROPERTY OF WAYNE LONG		Wm. Hunter Traylor Register Land Surveyor, L 3077 50 Fox Hollow Littleton, N.C (919) 586 - 5557		
	TOWNSHIP: HALIFAX	COUNTY: HALIFAX	DATE: March 4, 1997	SURVEYED BY:	FIELD BOOK
0	STATE: NORTH CAROLINA		SCALE: 1" = 200'	DRAWN BY:	DRAWING NO.
SCALE	ZONE:	TAX MAP: PARCEL:	CHECKED & CLOSURE BY:		

✓ Bud Elliott


CSX Rail Road
Hwy 125



VICINITY MAP



LEGEND

——— — — —	Lines Surveyed
— — — — —	Lines Not Surveyed
EIP — — —	Existing Iron Pipe Control Corner
ECM — — —	Existing Concrete Monument
NIP — — —	New Iron Pipe
PKN — — —	P K Nail
DMD — — —	Double Meridian Distance
R/W — — —	Right of Way
DB — — —	Deed Book
CM — — —	Concrete Monument
ELS — — —	Existing Lightwood Stake

NORTH CAROLINA
HALIFAX COUNTY

I, WM. HUNTER TRAYLOR, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book _____, page _____, etc.) (other), that the boundaries not surveyed are clearly indicated as drawn from information found in Book _____, page _____; that the ratio of precision as calculated is 1 : _____, that this plat was prepared in accordance with G. S. 47-30 as amended. Witness my original signature, registration number and seal this _____ day of _____, A.D., 19____.

Seal or Stamp

_____
Surveyor

L-3077
Registration Number

NORTH CAROLINA
HALIFAX COUNTY

I, a Notary Public of the County and State aforesaid, certify that WM. HUNTER TRAYLOR, a registered land surveyor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and offical stamp or seal, this _____ day of _____ 19____.

Seal - Stamp

_____
Notary Public

My Commission expires _____

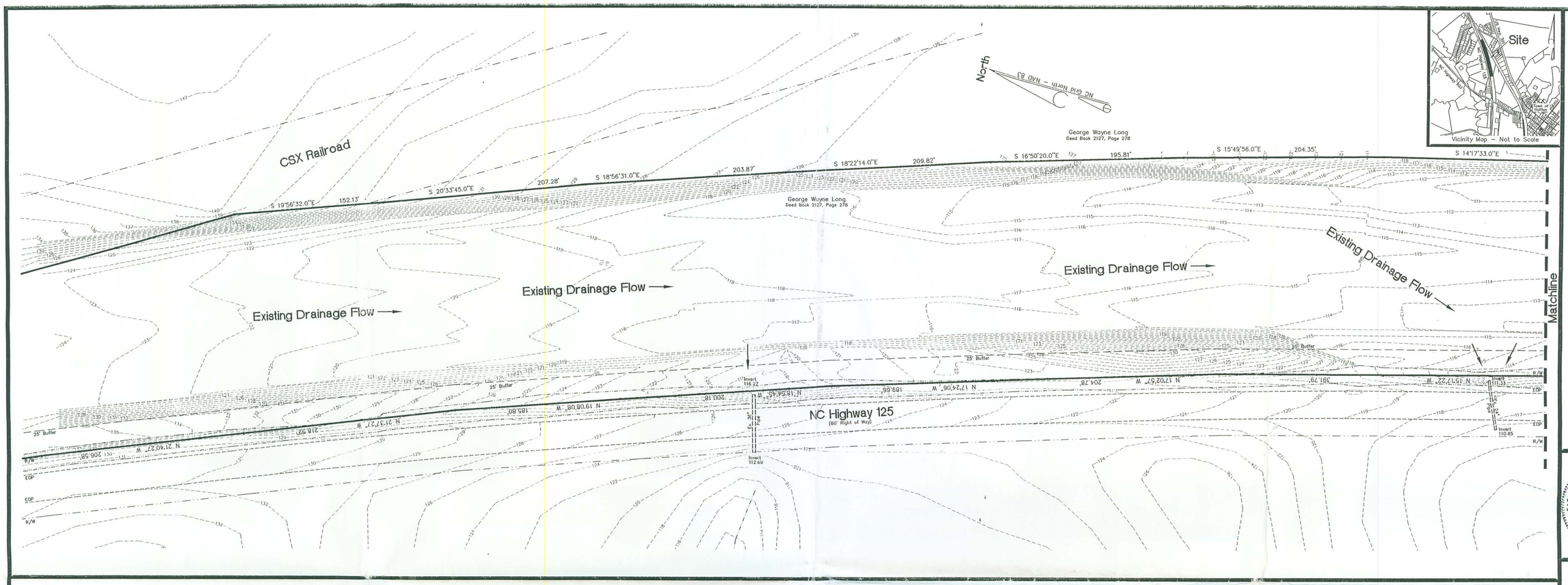
NORTH CAROLINA
_____ COUNTY

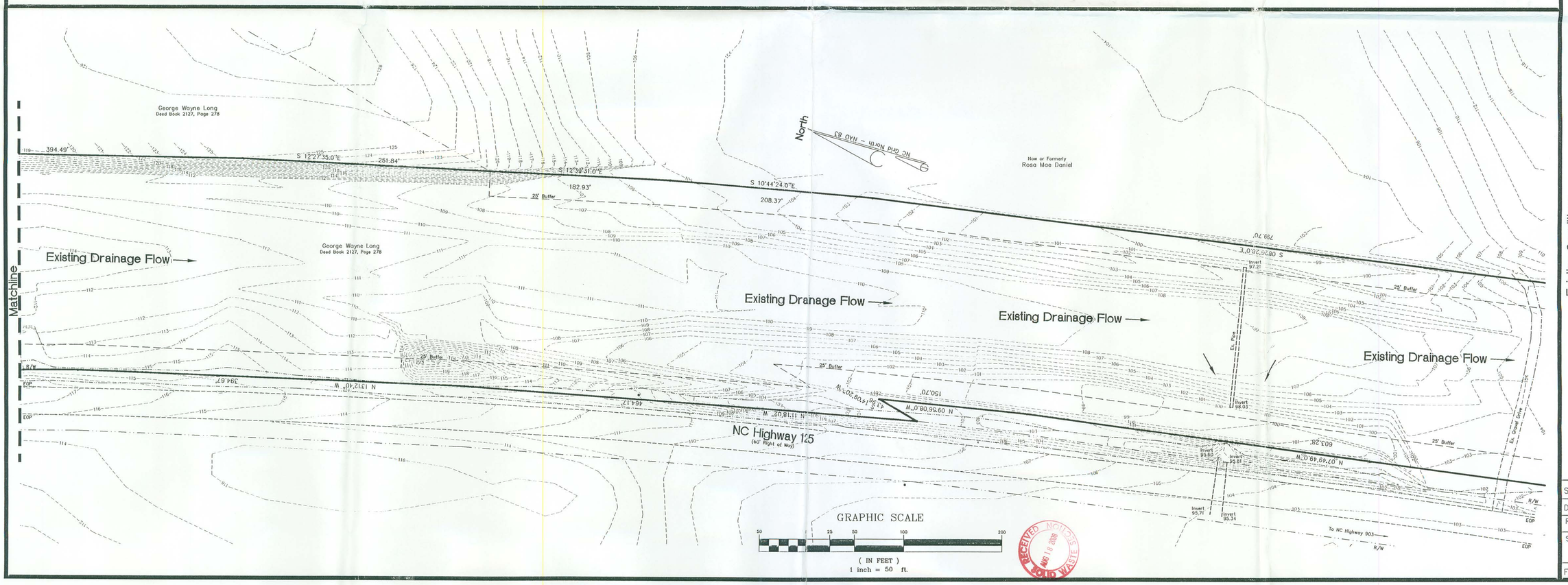
The foregoing certificate of _____, Notary Public, is certified to be correct. This instrument was presented for registration and recorded in Plat Book _____, page _____. This _____, 19____ at _____ M.

_____ By _____
Register of Deeds Assistant Reg. of Deeds

Recorded in Book of Maps _____ Vol. _____ Pg. _____

REVISIONS	PROPERTY OF WAYNE LONG		Wm. Hunter Traylor Register Land Surveyor, L 3077 50 Fox Hollow Littleton, N.C. (919) 586 - 5557		
	TOWNSHIP: HALIFAX	COUNTY: HALIFAX	DATE: FEB. 15, 1997	SURVEYED BY:	FIELD BOOK
0 SCALE	STATE: NORTH CAROLINA		SCALE: 1" = 200'	DRAWN BY:	DRAWING NO.
	ZONE:	TAX MAP: PARCEL:	CHECKED & CLOSURE BY:		2 OF 6





RECEIVED NC
AUG 18 2008
SOLID WASTE SECTION

PLUMBLINE ENGINEERING

42 QUEENS WAY
~~Wilson, NC 27890~~
252-723-9475

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 4402 EUGENE B. GRANT, JR.

Existing Conditions

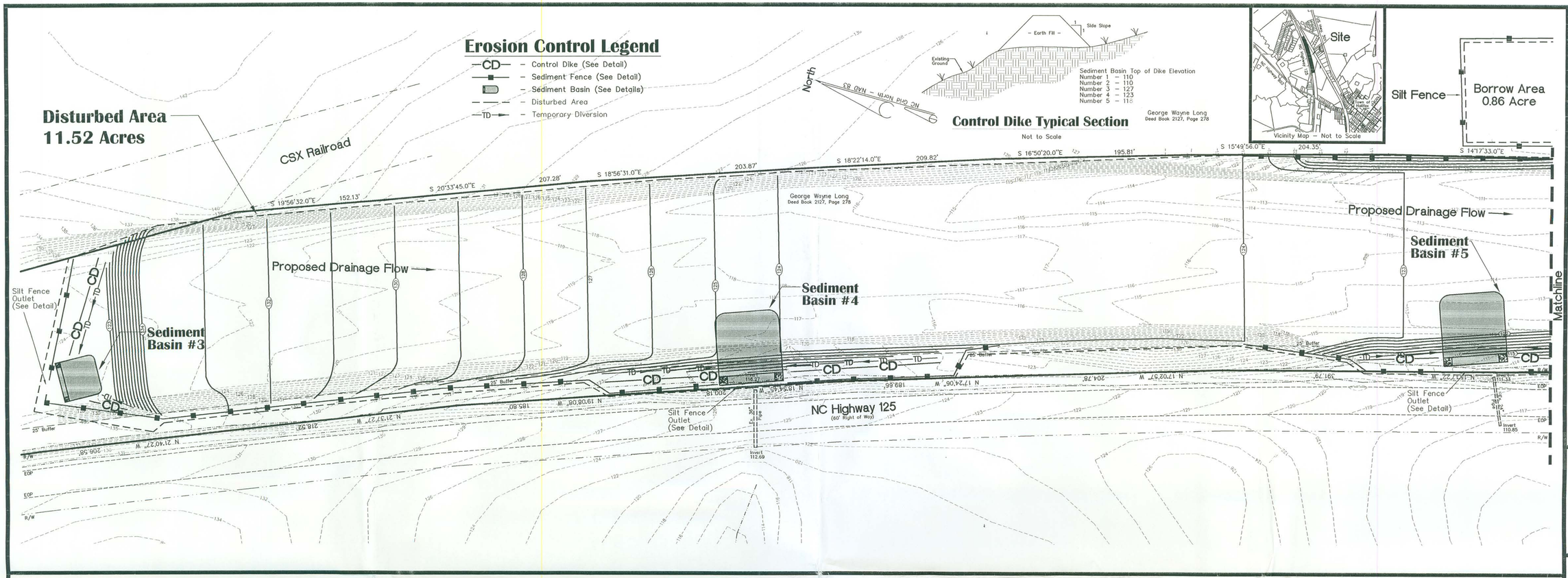
WAYNE LONG

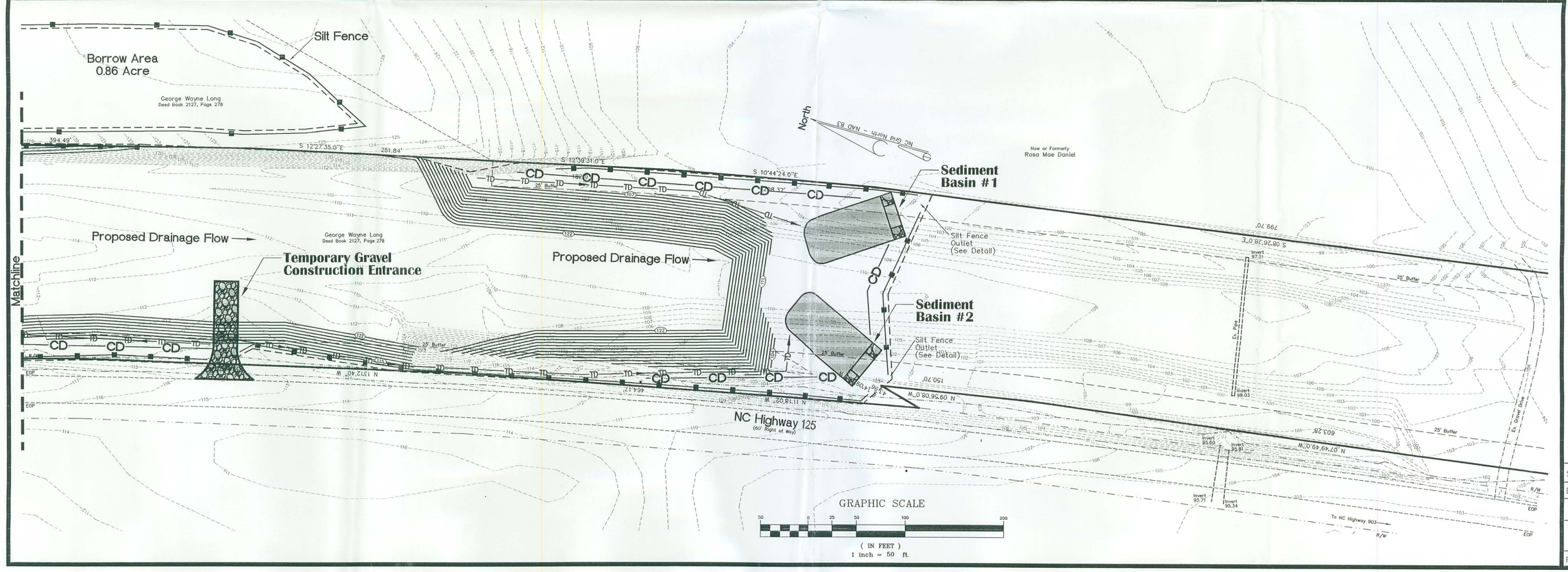
NC Highway 125, Halifax,
Halifax County, North Carolina

SCALE:	1" = 50'
DATE:	April 1, 2008
REVISIONS:	5-12-08
SHEET:	CE-1
FILE: J080009	CAD: SMB

Erosion Control Legend

- CD — Control Dike (See Detail)
- Sediment Fence (See Detail)
- Sediment Basin (See Details)
- Disturbed Area
- TD — Temporary Diversion





PLUMBLINE ENGINEERING

42 Queens Way
Bath, NC 27808
252-923-9495

NORTH CAROLINA PROFESSIONAL SEAL 019432 ENGINEER EUGENE B. GRANT, JR.

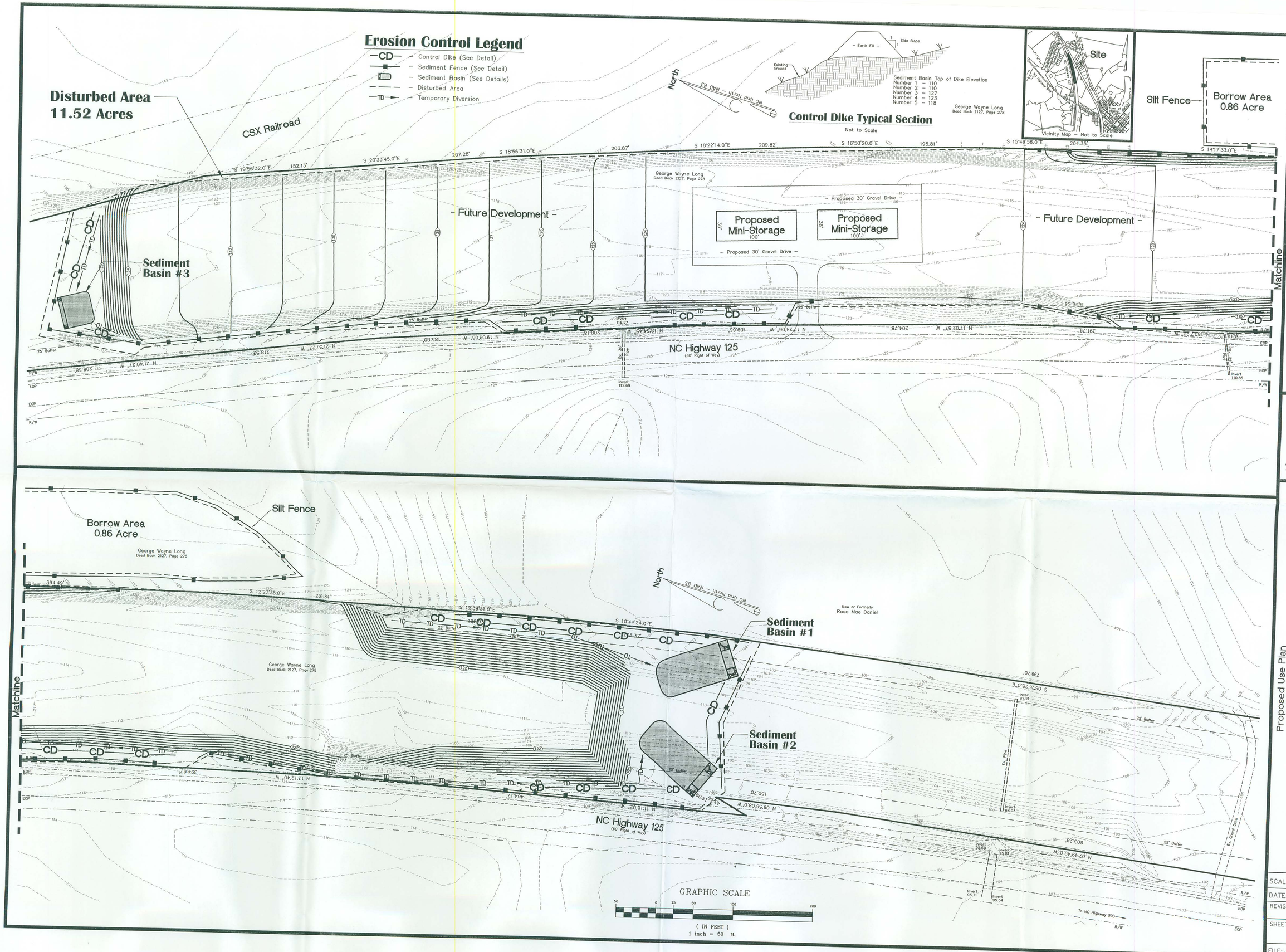
07/22/08

Grading and Erosion Control Plan for

WAYNE LONG

NC Highway 125, Halifax,
Halifax County, North Carolina

SCALE:	1" = 50'
DATE:	April 1, 2008
REVISIONS:	5-12-08 6-20-08
SHEET:	CE-2
FILE: J080009	CAD: SMB



PLUMBLINE ENGINEERING
42 Queens Way
Bath, NC 27808
252-923-9495

NORTH CAROLINA PROFESSIONAL SEAL 4402 ENGINEER EUGENE B. GRANT, JR.

Proposed Use Plan

WAYNE LONG

NC Highway 125, Halifax,
Halifax County, North Carolina

SCALE:	1" = 50'
DATE:	April 1, 2008
REVISIONS:	5-12-08 6-20-08
SHEET:	CE-3
FILE: J080009	CAD: SMB

GENERAL CONSTRUCTION SEQUENCE

1. OBTAIN PLAN APPROVAL FROM N.C. DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT LAND QUALITY SECTION, OR FROM A LOCAL GOVERNING BODY THAT HAS A SOIL EROSION AND SEDIMENTATION CONTROL PROGRAM RECOGNIZED BY THE STATE LAND QUALITY SECTION.

CONTACT LAND QUALITY AT 919-791-4200 BEFORE ANY WORK BEGINS ON-SITE TO INFORM THEM OF THE PROJECT START DATE.

2. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH APPROVED PLAN. CLEAR ONLY ENOUGH AREA TO INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH APPROVED PLAN, SEED, MULCH AND ANCHOR MEASURES UPON INSTALLATION (DIVERSIONS AND BASINS). CHECK EACH DEVICE AFTER EACH RUNOFF PRODUCING RAINFALL EVENT AND PROVIDE NECESSARY MAINTENANCE.
3. CALL FOR INSPECTION BY LAND QUALITY SECTION OR OTHER AUTHORIZED CONTROLLING AUTHORITY BEFORE BEGINNING ANY WORK. 919-733-3833
4. PROCEED WITH LAND DISTURBING ACTIVITY.
5. AS STORM DRAINAGE SYSTEM IS INSTALLED, PROVIDE TEMPORARY INLET AND OUTLET PROTECTION DEVICES AS PER APPROVED PLAN.
6. ANY PORTION OR PHASE OF THE SITE UPON WHICH FURTHER LAND DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN SHALL BE PROVIDED WITH GROUND COVER WITHIN 15 WORKING DAYS OR 30 CALENDER DAYS, WHICH EVER IS SHORTER.
6. DISTURBED AREAS LEFT INACTIVE BETWEEN ANY PHASE OF GRADING SHALL BE TEMPORARY SEEDED WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICHEVER IS SHORTER. PROVISIONS FOR PERMANENT GROUND COVER MUST BE ACCOMPLISHED ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AND IN REMAINING AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.
7. MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE COURSE OF CONSTRUCTION. NO EROSION CONTROL DEVICE IS TO BE REMOVED UNTIL THE CONTRIBUTING AREA IS STABALIZED.
8. AS DISTURBED AREAS ARE STABALIZED CALL FOR INSPECTION BY THE LAND QUALITY SECTION OR OTHER AUTHORIZED CONTROLLING AUTHORITY.
9. UPON APPROVAL, REMOVE ANY ACCUMULATED SILT FROM THE EROSION CONTROL DEVICE AND THE EROSION CONTROL DEVICE AND INSTALL PERMANENT PROTECTION DEVICES, RESTORE ADJACENT AREAS TO FINISH GRADE, SEED MULCH AND TACK.

SEEDBED PREPARATION

1. IMMEDIATELY PRIOR TO SPREADING FERTILIZER, THE AREA TO BE SEEDED SHALL BE SCARIFIED BY SUITABLE MEANS TO A DEPTH OF AT LEAST 3 INCHES.
2. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS, HEREBY LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM SO AS NOT TO INTERFERE WITH SUBSEQUENT MOWING.
3. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMALLY AND MIX WITH SOIL. (SEE BELOW ●)
4. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
5. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED SLIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
6. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH WITH ASPHALT TACK OR OTHER APPROVED MEANS.
7. INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
8. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER COVER IS ESTABLISHED.
9. A GRASED AREA SHALL NOT BE CONSIDERED ESTABLISHED UNTIL IT PRESENTS A GREEN APPEARENCE FROM EYE LEVEL 50 FEET AWAY AND THE GRASS IS VIGEROUS AND GROWING WELL IN EACH SQUARE FOOT OF SEEDED AREA.

AGRICULTURAL LIMESTONE-2 TONS PER ACRE
FERTILIZER-10-10-10 ANALYSIS AT 800-1,000 LBS PER ACRE
SUPERPHOSPATE-500 LBS. PER ACRE OF 20% ANALYSIS
MULCH-2 TONS (80 BALES) SMALL GRAIN STRAW PER ACRE OR
ANCHOR-TACK WITH LIQUID ASPHALT AT 400 GAL. PER ACRE OR
EMULSIFIED ASPHALT AT 300 GAL. PER ACRE.

PERMANENT SEEDING SCHEDULE
SHOULDERS, SIDE DITCHES, SLOPES (MAX.3:1)

DATE	TYPE	PLANTING RATE
AUG 15-NOV1	TALL FESCUE	120 LBS/ACRE
NOV 1-MAR 1	TALL FESCUE	120 LBS/ACRE
	AND ABRUZZI RYE	25 LBS/ACRE
MAR 1-APR 15	TALL FESCUE	120 LBS/ACRE
APR 15-JUL 30	HULLED COMMON BERMUDAGRASS	12 LBS/ACRE
JUL 15-AUG 15	TALL FESCUE AND	60 LBS/ACRE
	●●● BROWNTOP MILLET	35 LBS/ACRE
	●●● OR SORGHAM-SUDAN HYBRIDS	30 LBS/ACRE

SLOPES (3:1 TO 2:1)

MAR 1-JUNE 1	SERICO LESPEDEZA (SCARIFIED) AND	50 LBS/ACRE
(MAR 1-APR 15)	ADD TALL FESCUR	60 LBS/ACRE
(MAR 1-JUN 30)	OR ADD WEEPING LOVEGRASS	5 LBS/ACRE
(MAR 1-JUN 30)	OR ADD HULLED COMMON BERMUDAGRASS	8 LBS/ACRE
JUN 1-SEP 1	●●● TALL FESCUE AND	60 LBS/ACRE
	●●● BROWNTOP MILLET	35 LBS/ACRE
	●●● OR SORGHUM-SUDAN HYBRIDS	30 LBS/ACRE
SEP 1-MAR 1	SERICEA LESPEDEZA (UNHULLED-UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE 50 LBS/ACRE
(NOV 1-MAR 1)	ADD ABRUZZI RYE	25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

⊕ ⊕ ⊕ TEMPORARY-RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

- Traps #4 and #5 are to remain in place until entire site is stabilized. No fill will be placed on top on top of traps until that time.

TEMPORARY SEEDING

Table 6.10a Temporary Seeding Recommendations for Late Winter and Early Spring

Seeding Mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding Dates
Mountains-Above 2500 ft: Feb. 15-May 15
Below 2500 ft: Feb 1-May 1
Piedmont-Jan. 1-May 1
Costal Plain-Dec. 1-Apr. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disc with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Table 6.10b Temporary Seeding Recommendations for Summer

Seeding Mixture

Species	Rate (lb/acre)
German Millet	40

In the Piedmont and Mountain, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding Dates
Mountains-May 15-Aug. 15
Piedmont-May 1-Aug. 15
Costal Plain-Apr. 15-Aug. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disc with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Table 6.10c Temporary Seeding Recommendations for Fall

Seeding Mixture

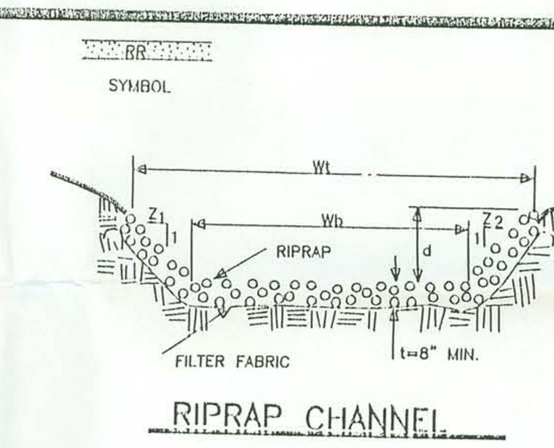
Species	Rate (lb/acre)
Rye (grain)	120

Seeding Dates
Mountains-Aug. 15-Dec. 15
Costal Plain and Piedmont -Aug. 15-Dec. 30

Soil amendments
Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

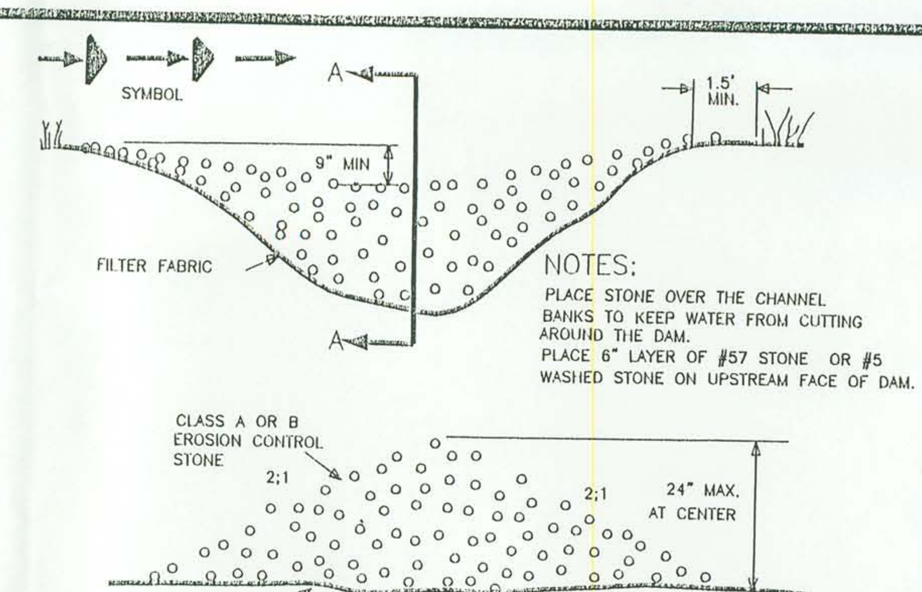
Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disc with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.



NOTE:
1. MAX. STONE SIXE IS 1.5XD50
2. RIPRAP LAYER THICKNESS SHALL BE 1.5X THE MAX. STONE SIZE BUT NOT LESS THAN 8 INCHES.
3. PLASTIC FILTER FABRIC SHALL BE WOVEN OF POLYPROPYLENE MONOFILAMENT YARNS AND SHALL BE EQUAL TO "POLY-FILTER X" AS MANUFACTURED BY CARTHAGE MILLS, INC. CINNCINNATI, OHIO.

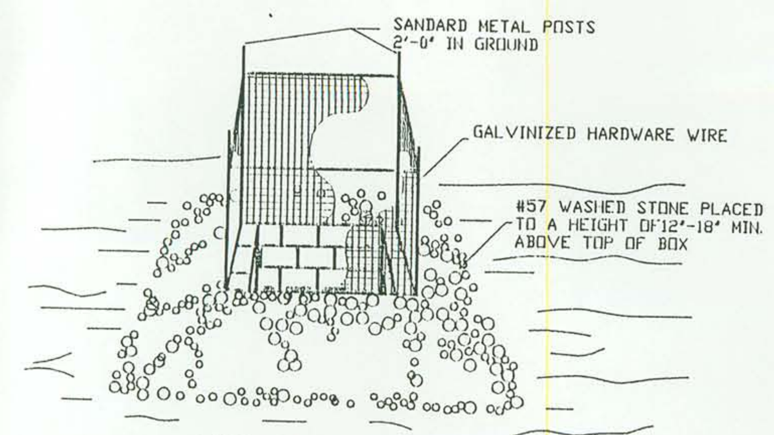
RIPRAP CHANNEL
NOT TO SCALE



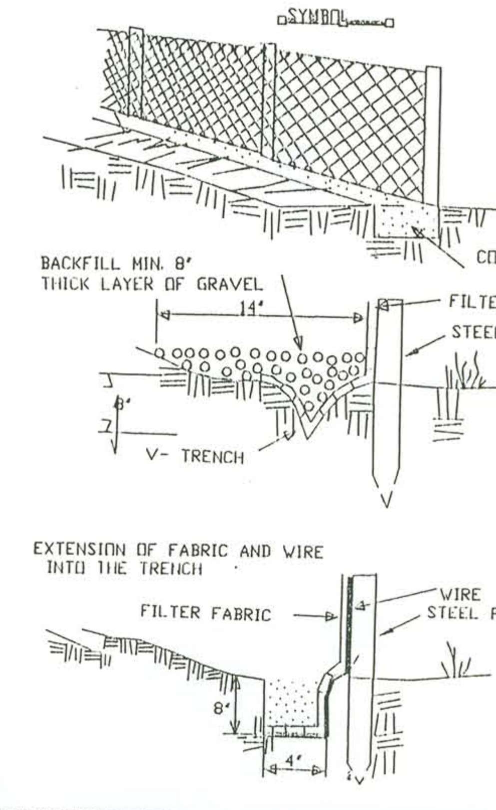
NOTES:
PLACE STONE OVER THE CHANNEL BANKS TO KEEP WATER FROM CUTTING AROUND THE DAM.
PLACE 6" LAYER OF #57 STONE OR #5 WASHED STONE ON UPSTREAM FACE OF DAM.

SECTION A-A

STONE CHECK DAM
NOT TO SCALE



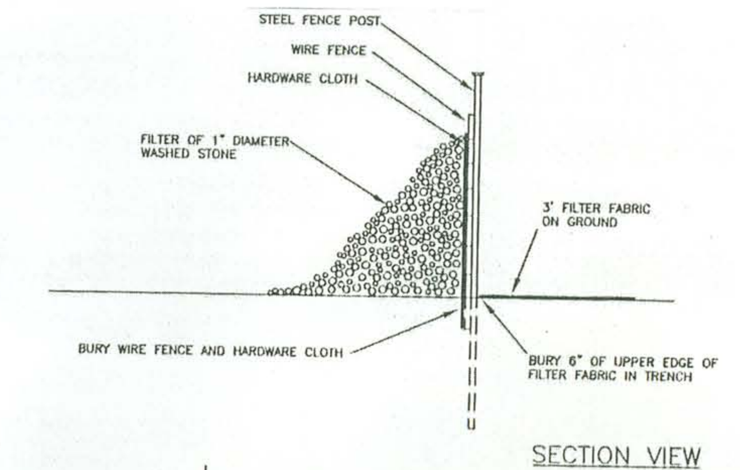
STANDARD CATCH BASIN/YARD INLET PROTECTION
NOT TO SCALE



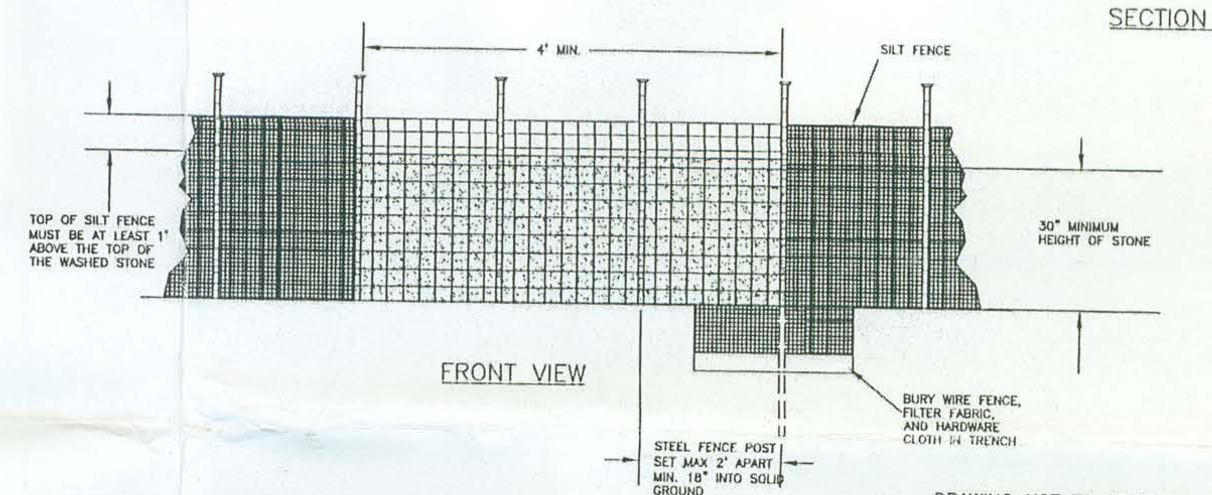
SILT FENCE MATERIALS

1. FILTER FABRIC-PERVIOUS SHEET OF POLYPROPYLENE,NYLON POLYESTER, OR POLYETHYLENE YARN, DEHNR APPROVED.
2. 1.33 LB/LINEAR FT STEEL POST WITH MIN. LENGTH OF 4 FEET.
3. WIRE FENCE-14 GAUGE MIN. WITH MAX. MESH SPACING OF 6 INCHES.
4. MAX. POST SPACING IS 8 FT.

SILT FENCE
NOT TO SCALE



SECTION VIEW

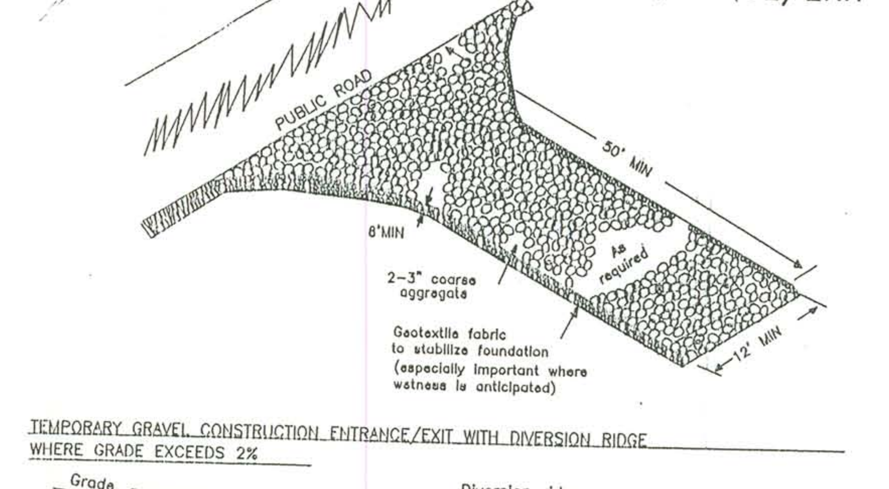


FRONT VIEW

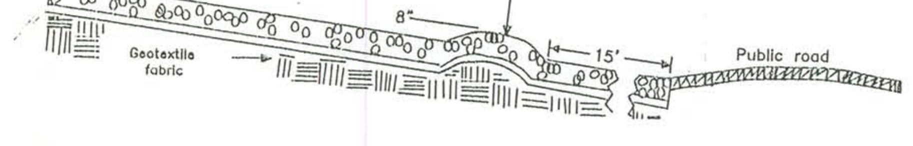
DRAWING NOT TO SCALE

SILT FENCE OUTLET	STANDARD DETAIL NUMBER: HS404	
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT	DATE	REVISIONS

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT



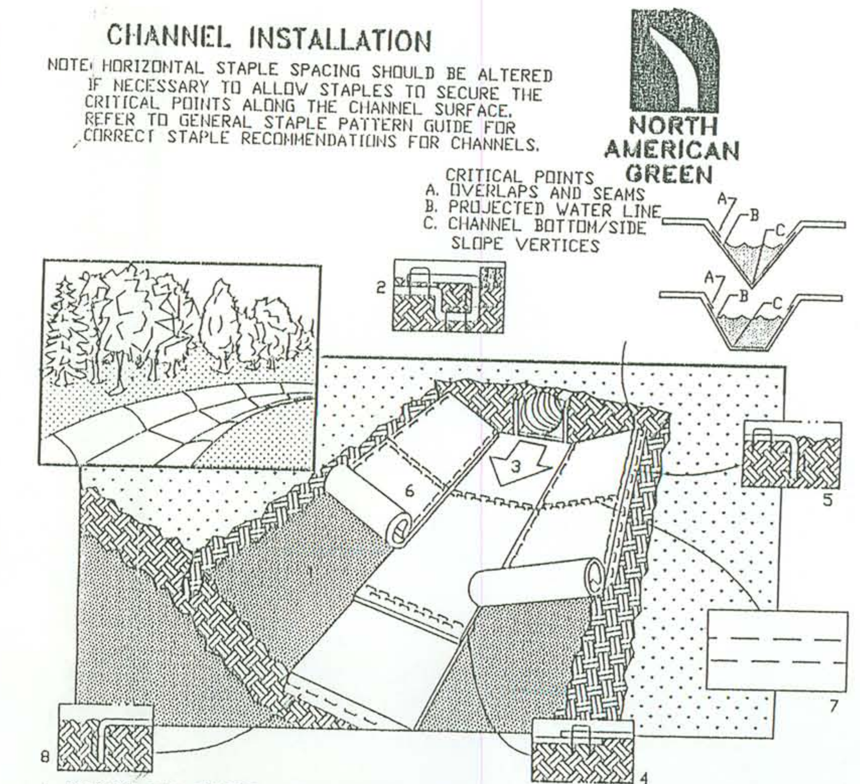
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT WITH DIVERSION RIDGE WHERE GRADE EXCEEDS 2%



CHANNEL INSTALLATION

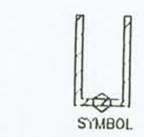
NOTE: HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE RECOMMENDATIONS FOR CHANNELS.

CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED (2" FOR C350 MATTING).
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

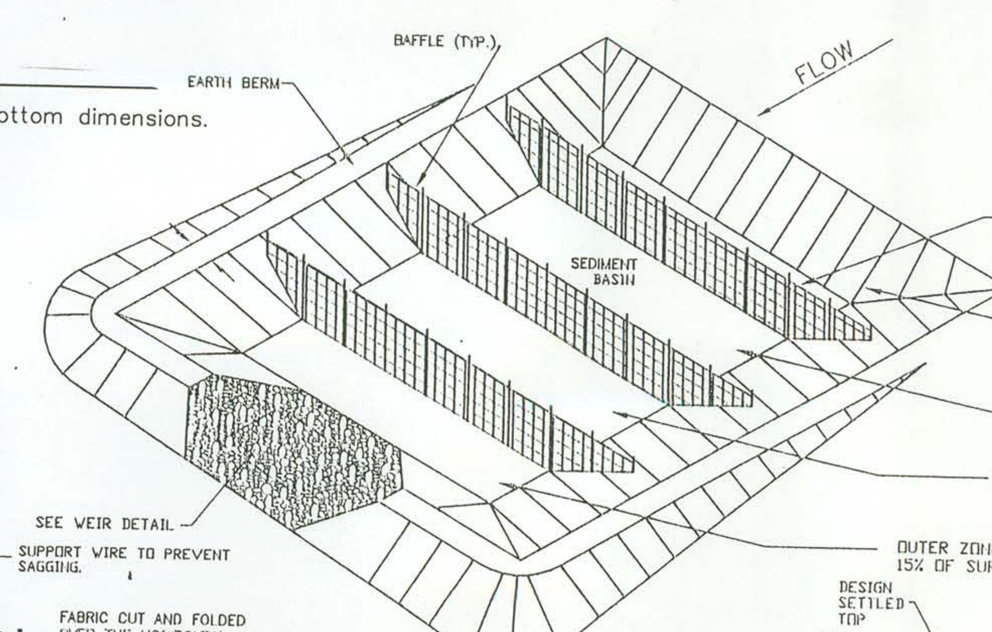
14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47711
USA 1-800-772-2040 CANADA 1-800-448-2040



- Trap dimensions provided in the calculations are bottom dimensions.
- Side slopes are to be 2:1.
- Weir lengths on traps #1 and #2 are to be 12'.

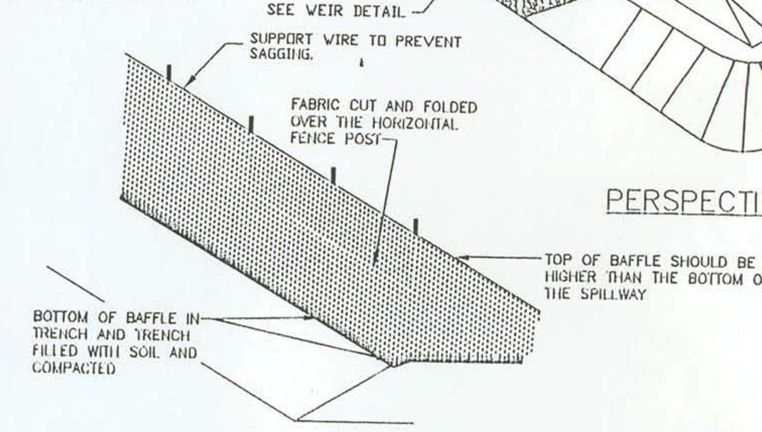
BAFFLE MATERIAL, ETC SPECIFIED

DRAINAGE AREA (ACRES)	WEIR LENGTH (FEET)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0



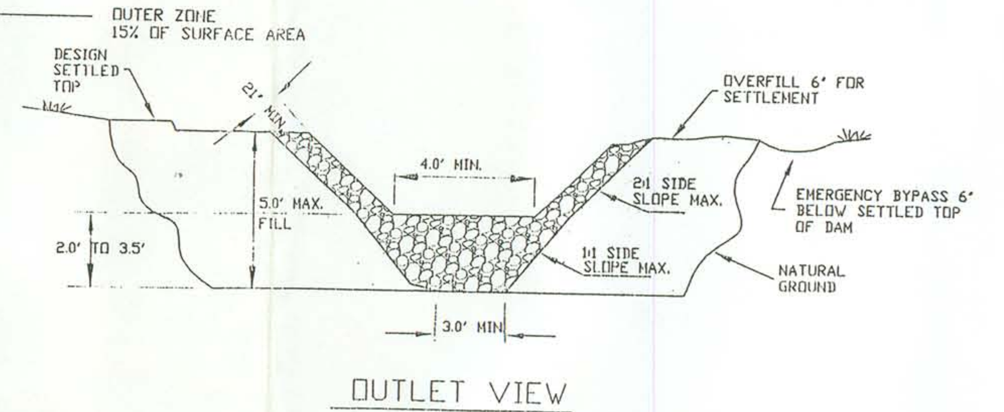
BAFFLE INSTALLATION - STEP 1

NOTES:
1. DRIVE STEEL FENCE POST AT LEAST 24" INTO SOLID GROUND, SPACED @ 4.0' O.C.
2. WOOD POSTS ARE NOT ACCEPTABLE
3. BAFFLE SPACED AS PER APPROVED PLAN.
4. BASINS LESS THAN 20 FEET IN LENGTH MAY USE 2 BAFFLES THAT DIVIDE THE BASIN INTO THIRDS.
5. MIN. DEPTH 3.5 FEET, WITH 1.5 FEET EXCAVATED BELOW GRADE. MIN. STORAGE DEPTH OF 2.0 FEET ABOVE GRADE.

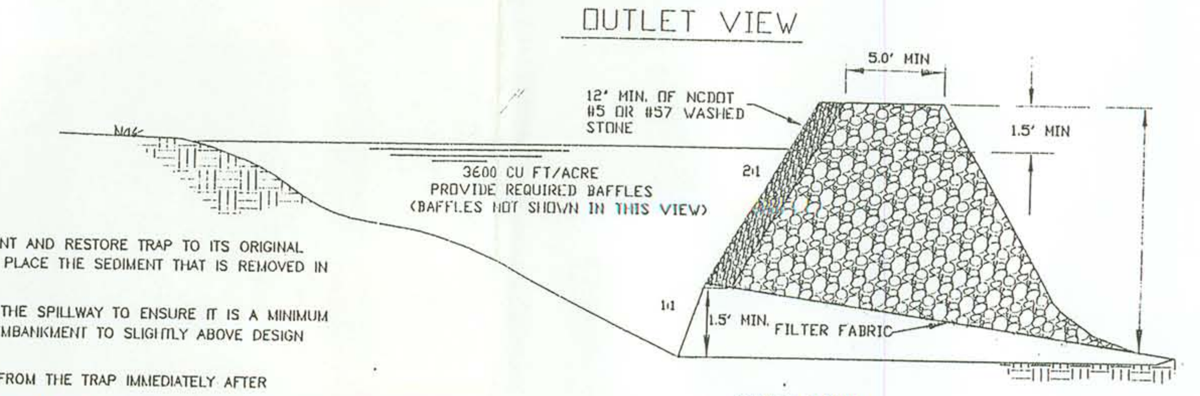


PERSPECTIVE VIEW

BAFFLE INSTALLATION - STEP 2



OUTLET VIEW



SECTION
WEIR DETAIL
NOT TO SCALE

MAINTENANCE

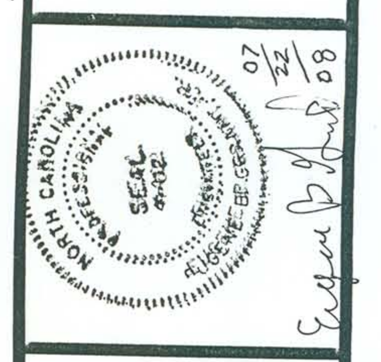
INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

TEMPORARY SEDIMENT TRAP
NOT TO SCALE

PLUMBLINE ENGINEERING
42 Queens Way
Bath, NC 27808
252-923-9495



Detail Sheet

WAYNE LONG

NC Highway 125, Halifax,
Halifax County, North Carolina

SCALE: 1" = 50'	
DATE: April 1, 2008	
REVISIONS:	
SHEET: CE-4	
FILE: J080009	CAD: SMB