Initial Application	1 Date: 12 - 2	3-09		Application #	150023	476
		201	DRB	CU		
			MERCIAL ETT LAND USE APPLICA	ATION		
Central Permittin	ng 108 E. Front Street, I		ine: (910) 893-7525	Fax: (910) 893-2793	www.harnett.org/pe	
LANDOWNER:	AUERASBORO	BATTLEFIELD COMM	ailing Address: <u> </u>	Box 1811/	3300 NC	82
City://_///		State: 1/14 Zip: 2833H		Contact #:		
APPLICANT	SAME	M	ailing Address:		 	
	licant information if different than	1				
CONTACTINAM	E APPLYING IN OFFICE:	ERRY F. LE	E	_ Phone #: <u>915 -</u>	<u> 237-4791 </u>	-
	CATION: Subdivision:	1 // /////		Lot #:Lot	1 -> / -	
	 State Road N	110 00 1		Map Book&P	40	
Parcel: 02	Α.		PIN: 05-95	- 72 - 808		
Parcel:	40 - 1	Watershed: MA De	12 %	9 441	1,000	·
Zoning:/ _/Ł	Flood Zone:	Watershed: De	ed Book&Page: _/ 2 0	// Power C	company*:	
		vice provider need to supply pro	<u> </u>	from Pro		, /
	1 /	TY FROM LILLINGTON 🕸 🔾		=	82 SOUTH	7
33	OD N.C. HY	MY 82 DUN.	N M.C.			
		/				
PROPOSED US		No. Bodenowa/III	_:a			
☐ Multi-Family☐ Business		No. Bedrooms/Ur		olovees. Hours o	f Operation:	
☐ Daycare		# Afterschoolers		•	· · · · · · · · · · · · · · · · · · ·	
☐ Industry		Туре				
Church	Seating Capacity	# Bathrooms	Kitchen			
Accessory/A	Addition/Other (Size @ xx	213 Use 25-26 (3-A-7)	H KODX	FREE 5-TH	NDING	· President
		· · · · · · · · · · · · · · · · · · ·				
// Water Supply: 💪			JST have operable water			
Sewage Supply:	New Septic Tank (Con	nplete Checklist) (_	_) Existing Septic Tank (Complete Checklist)	()County Sewer	
Comments: 12	2-23-09 N	6 Plan per	regued been	my lust	will Mail in	3 reti
Plane	for Birl + F	M Infile U.C.	4,	/		- 702
					·	

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted.

I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

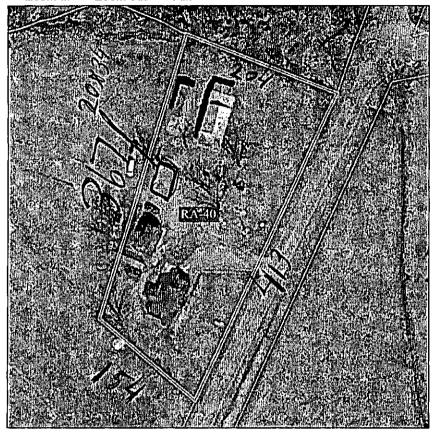
Signature of Owner's Agent

12-73-01 Date

This application expires 6 months from the initial date if no permits have been issued



C Zoom in C Zoom out @ Pan



Map Scale = One Inch = 86 feet

Owner Information:

PID	020595 0001	-
NAME	AVERASBORO BATTLEFIELD	-
ADDRESS	PO BOX 1811	i
CITYST	DUNN, NC 283350000	T WRALT
ACRES	1.525136	1
		•

Zoning Overlay Results

•		
: ID	Zoning	Acres
303	RA-40	1.53

Download Results:

ZoningPolygon 020595 0001.zip

* Not to Scale
20 X 34 Build Rostroom

NAME: APPLICATION #: 23
This application to be filled out when applying for a septic system inspection.
County Health Department Application for Improvement Permit and/or Authorization to Construct IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (Complete site plan = 60 months; Complete plat = without expiration) 910-893-7525 option 1 CONFIRMATION # 10 5 35 3 Environmental Health New Septic SystemCode 800
 All property Irons must be made visible. Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners. Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at/for Central Permitting. Place orange Environmental Health card in location that is easily viewed from road to assist in locating property. If property is thickly wooded, Environmental Health requires that you clean out the <u>undergrowth</u> to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. Do not grade property. All lots to be addressed within 10 business days after confirmation. \$25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.
 After preparing proposed site call the voice permitting system at 910-893-7525 option 1 to schedule and use code 800 (after selecting notification permit if multiple permits exist) for Environmental Health inspection. Please note confirmation number given at end of recording for proof of request. Use Click2Gov or IVR to verify results. Once approved, proceed to Central Permitting for permits. Environmental Health Existing Tank Inspections Code 800
 Follow above instructions for placing flags and card on property. Prepare for inspection by removing soil over outlet end of tank as diagram indicates, and lift lid straight up (if possible) and then close back down.(Unless inspection is for a septic tank in a mobile home park) After uncovering outlet end call the voice permitting system at 910-893-7525 option 1 & select notification permit if multiple permits, then use code 800 for Environmental Health inspection. Please note confirmation number given at end of recording for proof of request. Use Click2Gov or IVR to hear results. Once approved, proceed to Central Permitting for remaining permits.
SEPTIC If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.
{} Accepted
The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant MUST ATTACH SUPPORTING DOCUMENTATION:
YES { NO Does the site contain any Jurisdictional Wetlands?
{}YES {
YES INO Does or will the building contain any drains? Please explain.
YES (V) NO Are there any existing wells, springs, waterlines or Wastewater Systems on this property?
YES NO Is any wastewater going to be generated on the site other than domestic sewage?
YES YES NO Is the site subject to approval by any other Public Agency?
YES (YNO Are there any easements or Right of Ways on this property?
{} YES _ {} NO Does the site contain any existing water, cable, phone or underground electric lines?
If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.
Have Read This Application And Certify That The Information Provided Herein is True, Complete And Correct. Authorized County And
State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules.
Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making
The Site Accessible So That A Complete Site Evaluation Can Be Performed.

PROPERTY OWNERS OR OWNERS LEGAL REPRESENTATIVE SIGNATURE (REQUIRED)

5/08

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 E-mail: service@halowensoil.com

11 December 2009

Mr. Jerry Lee Averasboro Battlefield Commission Post Office Box 1811 Dunn, NC 28334

Reference: Soil Investigation and Septic System Design Averasboro Battlefield (1.5 Acres) NC PIN 0595-72-8087.000

Dear Mr. Lee,

A site investigation was conducted for the above referenced property which is located on the western side of NC 82, Duke Township, Harnett County, North Carolina. The purpose of the investigation was to determine the ability of this lot to support a subsurface sewage waste disposal system and 100 % repair area for an additional bathroom/ comfort station. This report represents my professional opinion but does not guarantee or represent permit approval for any lot by the local Health Department.

Water usage data have been obtained from the Harnett County Department of Public Utilities (copy attached). For the period of December 2006 through October 2009 these data indicate an average daily use of 22.16 gallons. However, in February 2007 it is believed that a leak occurred in the building, and an average of 47.8 gallons per day was recorded that month. In March 2008, data show an average of 40 gallons per day was used. The owners are not aware of a leak during that period. Also, in June 2009, 950 gallons were used for an average daily consumption of 30.6 gallons. We believe this number, 30.6 gallons, is a good representation of the peak flows that can be expected from this facility. Most of the activities at the battlefield are oriented to the warmer months and therefore collection of daily readings at this time of year would not be representative of actual use. With expectations of increasing flows in the future due to more visitors to the museum, this septic proposal utilizes a daily flow of 160 gallons.

A soil investigation was conducted and a significant amount of provisionally suitable soils for subsurface sewage waste disposal was observed (see attached map). The provisionally suitable soils exhibit a friable sandy clay loam subsoil with suitable structure and appear adequate to support long term acceptance rate of 0.4 gal/day/sqft. Soil wetness condition in the form of two chroma mottles were observed in the 24 to 30 inch zone below surface.

The initial septic system is proposed as a gravity driven system to one 100ft long 25%-reduction type drainline (such as EZ Flow or chamber). The repair system is proposed as the same. Due to soil wetness conditions in the 24 to 30 inch zone below surface, both systems are required to be installed ultra shallow. This requirement will necessitate the addition of at least 6 inches of topsoil to completely cover the system. Additional topsoil, up to approximately one foot of cover, is advisable but not required. A septic system layout and supporting information are attached to this report.

The septic system has been demonstrated with various colored pin flags that are located on the lot. It is important that you do not disturb the septic system area. It is recommended that a staked line or protective fence be placed around the system prior to construction to eliminate any potential damage to the soil or the layout of the system.

A curtain drain above the septic system is recommended. The curtain drain should be installed two and one-half to three feet deep to intercept subsurface water moving laterally through the soil toward the drainfield. A swale and berm along the top edge of the curtain drain should also be installed to catch surface water. See the attached curtain drain schematic for additional detail.

Please forward this report to Harnett County when applying for a permit. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.

Sincerely

Hal Owen

Licensed Soil Scientist

SOIL MAP

Soil Investigation and Septic System Design Averasboro Battlefield (1.5 Acres) December 2009

Map Not to Scale

Map Legend
Provisionally
Suitable Soils

SEPTIC SYSTEM LAYOUT DESIGN

sboro Battlefield Commissior		Phone #:
Post Office Box 1811, Dunn N	NC 28334	
3300 NC Hwy 82, Dunn	P.I.N.: 0595-72-8087.0	000
		Post Office Box 1811, Dunn NC 28334

Daily Flow: 160 gallons

Lines flagged at site on 9 ft centers.

Initial / Repair	Line #	Line color	Drainline Length(ft)	Measured Field Line Length(ft)	Relative Elevation(ft)
Initial	1	В	100	110	103.02
	2	Y		51	102.71
Repair	3	R	100	116	102.68
	4	Y		85	102.25
					EIP=100.00

PROPOSED SYSTEM:

Initial System

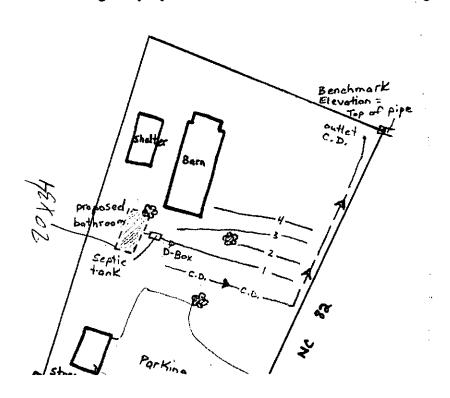
1 X 100ft (X3ft) accepted status drainline installed on contour @ 12 in.

LTAR 0.4 gal/day/sqft

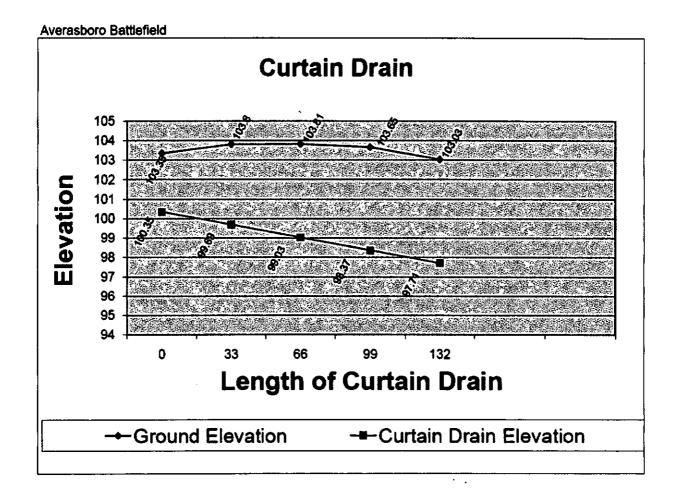
Repair System

1 X 100ft (X3ft) accepted status drainline installed on contour @ 12 in.

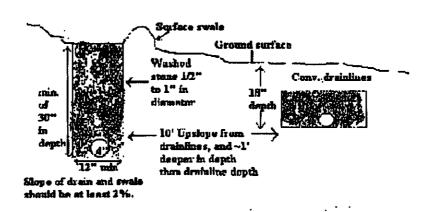
LTAR 0.4 gal/day/sqft



Water Usage Data	
PREPARED 11/17/09	ACCOUNT CONSUMPTION H
PROGRAM UT475L	1000011
	h.room)
	CFOOT
CUSTOMER: 36599 AVERASBORG BATTLEF PO BOX 1811	TIELD COMM
DUNN	NC. 28334
LOCATION: 9948 3800 NC 82	
CYCLE/ROUTE: 08-35	
Company STATUS: A Lorent December 1	
WATER NUMBER: 9302	enes - ಆಕ್ರಾಂ ರೇಗ್ ಎಂ
WATER NOTEER NOTEER NOTEER	GUD4-L DELEGE SEAST SE
READING SILLING	ACTUAL
DATE TYPE DAYS PERIOD/DATE	CONSUMPTION
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3. 5/28/09 REG. 31 9/09 10/13/09	780.00
8/29/09_REG31_8/09_9/14/09	680 .00
7/29/09 REG 30 17/09 8/12/09	660.00
5/0- 5/29/09 REG (31) 6/09 7/14/09	-950.00 BOX
ਲੇ 5/29/09 REG 30 5/09 5/12/09	830.00
#S/29/09.REG	570.00
3/31/09 REG 32 3/09, 4/15/09	700,00
2/27/09_REG 28 2/09_ 3/12/03	500.00
1/30/09 REG _301/09_ 2/12/09	420.00
³	450.00 .
11/25/08 REG. 36, 11/08, 12/12/08	620.00
^10/20/08_REC26.10/08,11/13/08	4 50.0 0
" 9/24/03.REG . 309/0810/14/00	500. 00
* 8/25/06 RRG ZE 8/08 9/12/09	540,00
7/30/00 REG307/088/13/08	530.00
5/36/08_REG28 - 6/08 .7/14/08	600.00
8. S/02/08 REG . 31 S/08 6/12/08	670.00
3/02/08_REG304/085/13/08	730.00
3/4 - 4/02/08 REG (30) 3/08 4/14/08/	1200.00 年3 <i>の</i> 。
9 3/03/08 REG 33 2/08 3/12/08	800.00
- 1/20/06 REG 33 1/08 2/13/08 12/28/07 REG 32/13/07 1/12/08	330.00
* 11/25/07 REG 32 11/07 12/12/07	630,00
10/25/07 REG 30 10/07 11/14/07	62 0.60 ½
9/25/07 REG 32 9/07 10/12/07	ឧមហ្គ. ១០
8/24/07 REG. 28 8/07 9/12/07	830.00
7/27/07 REG 30 7/07 8/14/07	540.00
6/27/07 REG 93 6/07 7/13/07	620.00
≥ 3/25/07 REG 24, 5/07, 6/13/07	360.00
5 _ 3/01/07 REG 34 4/07 5/15/07	920.00
# 3/28/07 REG. 30 3/07 4/12/07 ,	800.00
ै। √3 + 2/25/07 REG (2)7 . 2/07 . 3/13/97♥	1290.00 <i>47.8</i> %
1/30/07 REG [32, 1/07] 2/13/07	660.00
12/29/06 REG 28 12/06 1/12/07 12/07	580,00
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FRENCH DRAIN DETAILS



Hal Owen & Associates, Inc.

266 Old Coats Road P.O. Box 400 Lillington, NC 27546 (910) 893-8743

Invoice

Bill To	
Mr. Jerry Lee Averasboro Battlefield Commission Post Office Box 1811	
Dunn, NC 28334	

your earliest opportunity.

Date	Invoice #			
12/11/2009	4171			
Р	roject			
Averasboro Battlefield				

Date	item	Description	Qty	Rate	Amount
11/16/2009	SLSS	Senior Licensed Soil Scientist	2	100.00	200.00
11/16/2009	FA 2	Field Assistant II	2	35.00	70.00
11/17/2009	ADM	Administrative Assistant	0.6	35.00	21.00
11/17/2009	SLSS	Senior Licensed Soil Scientist	0.25	100.00	25.00
11/18/2009	SLSS	Senior Licensed Soil Scientist	0.25	100.00	25.00
12/3/2009	SLSS	Senior Licensed Soil Scientist	1	100.00	100.00
12/8/2009	P ES 1	Project Environmental Scientist I	2	90.00	180.00
12/8/2009	SLSS	Senior Licensed Soil Scientist	2	100.00	200.00
12/9/2009	P ES 1	Project Environmental Scientist I	2	90.00	180.00
12/11/2009	P ES 1	Project Environmental Scientist I	0.75	90.00	67.50
12/11/2009	SLSS	Senior Licensed Soil Scientist	0.75	100.00	75.00
	Discount	Invoice Reduction 10%		-114.35	-114.35
			Total		\$1,029.15
Payment in full is due upon receipt of this invoice. A service charge of 1.5% per month will be added to any outstanding balance after thirty (30) days. You may		Payments/0	** ·	\$0.00	
	I charges by forwar	ding payment in full at	Balance	Due	\$1,029.15

Harnett County Department of Public Health

Well Abandonment Permit Application

APPLICANT INFORMATION

Averasboro Battlefield Commission Applicant/Owner	(910) 891 - 5019 Phone Number
PO Box 1811, Dunn NC 283	35
Street Address, City, State, Zip Code	
PROPERTY INFOR	MATION
Street Address 3300 NC 82 , Dunn Su	bdivision/Lot # NA
Parcel # 020595 0001 P	IN# 0595-72-8087.00
Directions to the	Site
From Erwin take Hwy 82 sou Go about 5 miles. Site is on right	th t, just past Arrowhead Rd.
Brief description of the well location (ex. front yard, northern end of my seum building	
*Please include a <u>Site Plan</u> of your property show well is underground, it must be uncovered prior	-
Please Complete the Following Information:	
Date Well Was Constructed Above Ground □ or Below Ground □ Well Type: Drilled □ Bored □ Hand dug □	Grouted: Yes \(\text{No} \(\text{ID} \) Total Depth of Well inches
I have thoroughly read and completed this Application as	
herein is true, complete and correct to the best of my know Representatives of the Harnett County Health Departmen entry to conduct necessary inspections to determine comp	t and State Officials are granted right of
I understand that I am solely responsible for the proper identi- underground utility lines, and making the site accessible so th according to the permit.	
Property Owner's of Owner's Legal Representative Signature	Required Date

If you have any questions please contact Environmental Health Division at 910-893-7547

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594

E-mail: service@halowensoil.com

18 January 2010

Mr. Jerry Lee Averasboro Battlefield Commission Post Office Box 1811 Dunn, NC 28334

Reference: Soil Investigation and Septic System Design Averasboro Battlefield (1.5 Acres) NC PIN 0595-72-8087.000

Dear Mr. Lee,

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Water usage data have been obtained from the Harnett County Department of Public Utilities (copy attached). For the period of December 2006 through October 2009 these data indicate an average daily use of 22.16 gallons. However, in February 2007 it is believed that a leak occurred in the building, and an average of 47.8 gallons per day was recorded that month. In March 2008, data show an average of 40 gallons per day was used. The owners are not aware of a leak during that period. Also, in June 2009, 950 gallons were used for an average daily consumption of 30.6 gallons. We believe this number, 30.6 gallons per day, is a good representation of the peak flows that can be expected from this facility. Most of the activities at the battlefield are oriented to the warmer months, and therefore collection of daily readings at this time of year (winter) would not be representative of actual use. With expectations of increasing flows in the future due to more visitors to the museum, this septic proposal utilizes a daily flow of 160 gallons. It is our understanding that during special events held throughout the year the bathrooms will be locked and portable toilets will be utilized.

A soil investigation was conducted and a significant amount of provisionally suitable soils for subsurface sewage waste disposal was observed (see attached map). The provisionally suitable soils exhibit a friable sandy clay loam subsoil with suitable structure and appear adequate to support long term acceptance rate of 0.4 gal/day/sqft. Soil wetness condition in the form of two chroma mottles were observed in the 24 to 30 inch zone below surface.

The initial septic system is proposed as a gravity driven system to two 50ft long, 25%-reduction type drainlines (such as EZ Flow or chamber). The repair system is proposed as the same. Due to soil wetness conditions in the 24 to 30 inch zone below surface, both systems are required to be installed ultra shallow. This requirement will necessitate the addition of at least 6 inches of topsoil to completely cover the system. Additional topsoil, up to approximately one foot of cover, is advisable but not required. A septic system layout and supporting information are attached to this report.

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A curtain drain above the septic system is recommended. The curtain drain should be installed two and one-half to three feet deep to intercept subsurface water moving laterally through the soil toward the drainfield. A swale and berm along the top edge of the curtain drain should also be installed to catch and divert surface water. At the road, water from the curtain drain should be conveyed by solid pipe just inside the property line and outlet at the stream. See the attached curtain drain schematic for additional detail.

Precautions should be taken to prevent vehicular traffic over the septic system and repair area. Equipment stored in the barn should be transported around the septic system area using a ten-foot wide easement located along the eastern property line or taken around the northern end of the barn and out the back.

The site is serviced by public water supply from Harnett County Public Utilities. The existing well on the northern end of the museum building will need to be abandoned to allow setbacks from the new septic system. An application for well abandonment is attached.

Please forward this report to Harnett County when applying for a permit. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.

Sincerely.

Hal Owen

Licensed Soil Scientist

CC: Harnett County Environmental Health

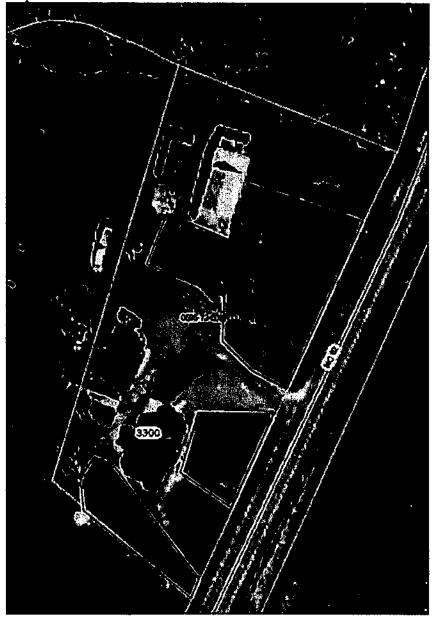
Soil Science investigations . wetland Delineations, Permitting, and Consulting

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Water Usage Data
     PREFARED 11/17/09
                                                    ACCOUNT CONSUMPTION H
     PROGRAM UTA75L
     HARNETT COUNTY PUBLIC UTILITIES
                              AVERASEORO BATTLEFIELD COMM
     CUSTOMER:
                    36599
                              PO BOX 1811
                              DUNN
                                                        NC
                                                              28334
                     9948
                              3300 NC 82
     LOCATION:
     CYCLE/ROUTE: 08-35
     STATUS: A
                             METER NUMBER: 53026054
                                                          METER SIZE: 99
     WATER
                          BILLING
                                                               ACTUAL
        READING
                                                         CONSUMPTION
     DATE TYPE DAYS PERIOD/DATE
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                                                             24310.00
          TOTALS: 1097
                                                              22.15
                                AVERAGE DAILY USAGE:
```

SOIL MAP

Soil Investigation and Septic System Design Averasboro Battlefield (1.5 Acres) December 2009

Map Not to Scale



Map Legend
Provisionally
Suitable Soils

SEPTIC SYSTEM LAYOUT DESIGN

Applicant: Averasboro Battlefield Commission			Phone #:
mailing address:	Post Office Box 1811, Duni	n NC 28334	-
Site Address:	3300 NC Hwy 82, Dunn	P.I.N.: 0595-72-8087	000
Daily Flow 160) gallons		

Lines flagged at site on 9 ft centers.

Initial / Repair	Line #	Line color	Drainline Length(ft)	Measured Field Line Length(ft)	Relative Elevation(ft)
Initial	1	В	50	110	103.02
Initial	2	Y	50	51	102.71
Repair	3	R	50	116	102.68
Repair	4	Y	50	85	102.25
					EIP=100.00

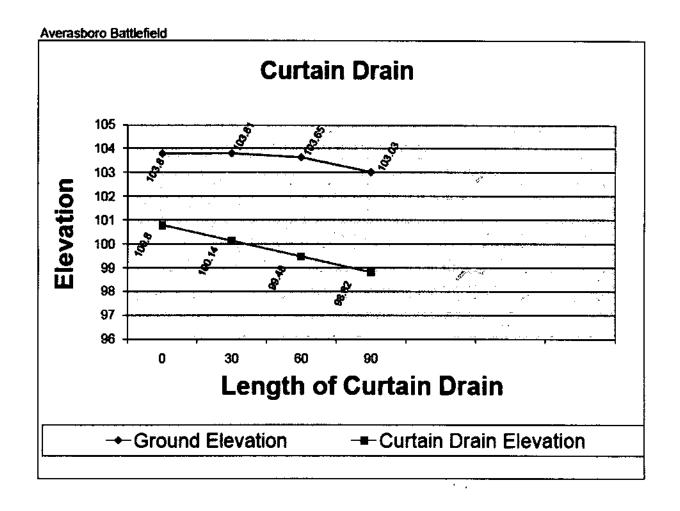
PROPOSED SYSTEM:

2 X 50ft (X3ft) accepted status drainline installed on contour @ 12 in.
LTAR 0.4 gal/day/sqft

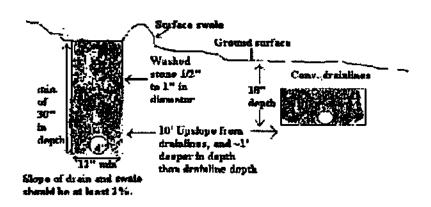
Repair System

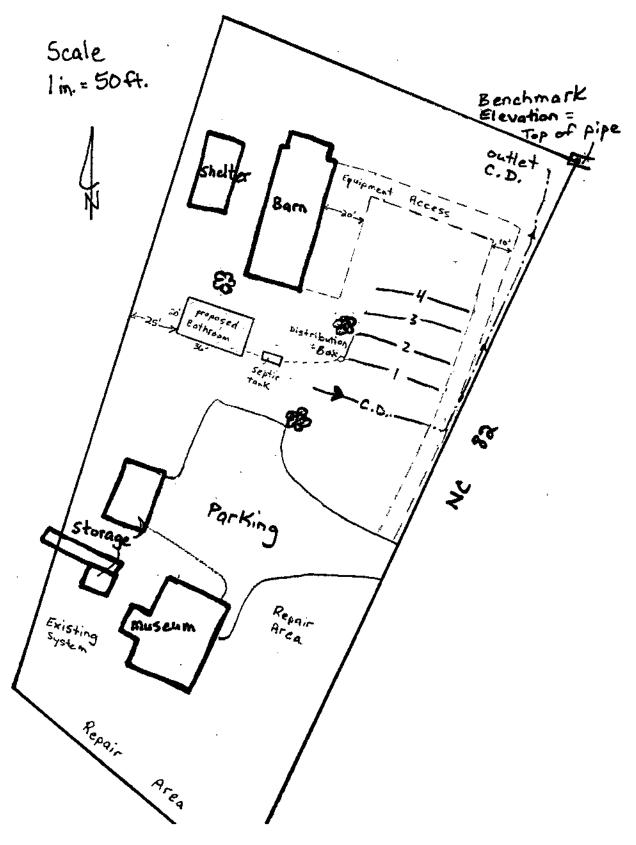
2 X 50ft (X3ft) accepted status drainline installed on contour @ 12 in.
LTAR 0.4 gal/day/sqft

⁻ See map on following page -



FRENCH DRAIN DETAILS





Soil Science Investigations • Wetland Delineations, Permitting, and Consulting