

ATTACHMENT FOR HHE-200 FORM

1. The OWNER/APPLICANT, by signing the front of this form, agrees to provide payment for services rendered as quoted and billed by COFFIN ENGINEERING & SURVEYING (CE&S). Payment on all billings are due within 30 days of billing date, otherwise a late charge of 1.5% per month (18% per year), simple interest, will be added to the total amount. In the event that any portion, or all of the final billing, remains unpaid for a period of 60 days, the OWNER/APPLICANT shall pay all costs of collection, including actual attorney's fees, court costs, CE&S's cost to collect bill. PLEASE NOTE THAT THE PERSON SIGNING THIS FORM UNDER OWNER/APPLICANT IS RESPONSIBLE FOR PAYMENT OF SERVICES AND SHOULD CONTACT CE&S IF HE/SHE HAS NOT RECEIVED A BILL.
2. All construction shall conform with Title 22 MRSA, §42, 10-144A CMR 241 "Maine-Subsurface Waste Water Disposal Rules," and all other pertinent sections. The OWNER/APPLICANT is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits. The OWNER/APPLICANT shall carefully examine all documents submitted by CE&S and promptly notify CE&S upon becoming aware of any defects. The OWNER/APPLICANT agrees to limit the liability of the site evaluator and/or CE&S to the amount of the total fee paid to CE&S and to a limit of five years from the date of this form. Visits to the site will be for information purposes only. CE&S will not be responsible for any site inspection duties.
3. This disposal system form shall not be transferable and becomes invalid if the authorized work has not commenced within two years after the issue date of the disposal system.
4. The OWNER/APPLICANT shall accurately describe the intended uses (present and future) for the system to the site evaluator. By signing the front of this form, the OWNER/APPLICANT agrees that the uses shown on said form is what was described to the site evaluator. Any change from the intended use described on this form requires a new design. Applicability of design must be reevaluated when location of structures are substantially different from those shown on the site plan or when other structures, additions, or appurtenances (i.e. swimming pools, garbage disposals) are considered.
5. The LPI shall inform the owner and designer of any local ordinance exceeding the Rules (Chapter 241) prior to issuing a permit, so that the application may be properly amended to conform to such ordinances.
6. The most recent revision of the Maine State Plumbing Code is hereby made a part of this HHE-200 Form and shall be consulted by the disposal system installer for further construction details, material specifications, cautions, and other related details pertinent to the installation of this disposal system.
7. This HHE-200 form is intended to represent facts pertinent to the Plumbing Code only. The owner/applicant must check local, state, and federal regulations before considering this an approvable site. All information shown on this form relating to property lines, structures, and subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines, wells, leach fields, etc.) are noted, shown, or left off as not affecting the system based on information provided by the owner/applicant or his agent. The OWNER/APPLICANT acknowledges and understands that CE&S's submissions may represent imperfect data and may contain errors, omissions, conflicts, inconsistencies, code violations, and improper use of materials. Such deficiencies will be corrected when identified. The OWNER/APPLICANT agrees to carefully study and compare the submissions and report at once in writing to CE&S any deficiencies discovered. The OWNER/APPLICANT further agrees to require each contractor and/or subcontractor to likewise study the submissions and report at once any deficiencies discovered. It is the responsibility of the owner/applicant or his agent to confirm, BEFORE CONSTRUCTION BEGINS, the above and/or any other features which may affect (or be adversely affected by) the installation of this system.
8. When a gravity system is proposed, BEFORE CONSTRUCTION BEGINS, the disposal system installer and building contractor shall review the relative elevation of all points given in the this HHE-200 Form and the elevation of the existing or proposed building drain and septic tank openings for compatibility to the minimum code pitch requirements. Any questions that arise should be directed to the local plumbing inspector or designer. When a pump system is installed, provisions shall be made to keep the tank and lift station outlets above the high water table.
9. The Septic System Owner's Manual written by the designer is made a part of this HHE-200 Form and shall be consulted by the owner/applicant and disposal system installer for other facts pertinent to the installation and operation of this disposal system.
10. The OWNER/APPLICANT bears the responsibility to show the location of property lines, subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines), and wells to the Site Evaluator. Actual property lines must be confirmed by a boundary survey. By signing the front of this form, the OWNER/APPLICANT agrees that the property lines and wells on the accompanying plan(s) are shown correctly and any discrepancy found in the future is the responsibility of the OWNER/APPLICANT.
11. The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this HHE-200 Form without a re-evaluation of the system.
12. CE&S is not responsible for the actions of others, who affect the ultimate cost of the PROJECT; by vandalism, marker removal, changes in scope of work, approval agencies, redesign of septic system, etc. (OWNER/APPLICANT to be notified of any cost increase).
13. The laws of Maine will apply concerning the interpretation and performance of this AGREEMENT. If an item in this AGREEMENT is found to be in violation of any prevailing laws, it will not void the entire AGREEMENT. This AGREEMENT is superior and over-rides any Standard Subcontract Agreement signed by the parties involved in this AGREEMENT for this PROJECT when referenced in said Standard Subcontract Agreement.
14. CE&S is responsible for the actions of its' employees only. Insurance is provided for: vehicles, general liability, errors and omissions, and workman's comp. All other entities on the site are responsible for their own safety, work product, actions, conduct, etc.
15. CE&S is not responsible for any actual, alleged, or threatened, pollutant damage in regard to the services performed. Pollutants are defined as any environmentally threatening contaminants commonly regulated in this state.
16. In the event that the OWNER/APPLICANT hires subcontractors, workers, orders material, etc., and governs, directly or indirectly, the overall operation on the work site; then the OWNER/APPLICANT is deemed to be acting as his own general contractor, having the greater responsibility for the work site.
17. Other than the procedure of collections described above in (1), should the parties of this AGREEMENT have differences involving either the work site, or the PROJECT, that cannot be resolved between them; then the procedures of Alternate Dispute Resolution will be the only method of resolving those differences.

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for any replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements are met.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)
2. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION	Town of <u>Augusta</u>
Permit No. <u>6395</u>	Date Permit Issued <u>12/8/09</u>
Property Owner's Name: <u>Jessie Thomas</u>	Tel. No.: <u>623-3704</u>
System's Location: <u>161 South Broad Street</u>	
Property Owner's Address: <u>28 Manderson Drive</u>	
(if different from above)	

SPECIFIC INSTRUCTIONS TO THE: LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. The Site Evaluator has considered the site/soil restrictions and has concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Jessie Thomas
SIGNATURE OF OWNER

Dec 8 2009
DATE

LOCAL PLUMBING INSPECTOR

I, Robert A. Gentry, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in **Comments** Section below and return to the applicant.

Comments:

Robert A. Gentry
LPI SIGNATURE

12/8/09
DATE

HHE-204 Rev 08/05

Replacement System Variance Request

VARIANCE CATEGORY							VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table						2 inches	
Soil Condition	Restrictive Layer						inches	
from HHE-200	Bedrock						9 inches	
SETBACK DISTANCES (in feet)	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft [a]	300 ft [a]	150 ft [a]	150 ft [a]	150 ft [a]		
Private Potable Water Supply	100 ft (a)	200 ft	300 ft	50 ft	100 ft	100 ft		
Water supply line	10 ft [a]	20 ft	25 ft [g]	10 ft	10 ft	10 ft [g]		
Water course, major	100 ft (c)	200 ft (c)	300 ft (c)	100 ft	100 ft	100ft		
Water course, minor	50 ft (d)	100 ft (d)	150 ft (d)	50 ft (d)	50 ft (d)	50 ft (d)		
Drainage ditches	25 ft	50 ft	75 ft	25 ft	25 ft	25 ft		
Edge of fill extension – Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Full basement [below grade foundation]	20 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Property lines	10 ft [b]	18 ft [b]	20 ft [b]	10 ft [b]	15 ft [b]	20 ft [b]		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

1. _____
2. _____
3. _____

Footnotes: (a.) Private Potable water supply setbacks may be reduced as prescribed in Chapter 7.
 (b.) Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
 (c.) Additional setbacks may be required by local Shoreland Zoning.
 (d.) Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.
 (e.) May not be closer to a private potable water supply than the existing disposal field or septic tank. This setback may be reduced for single family homes with Department Approval. See Section 702.3.
 (f.) The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.
 (g.) See Section 1402.8 for special procedures when these minimum setbacks cannot be achieved.

Karen J. Coffey

 SITE EVALUATOR'S SIGNATURE

December 2, 2009

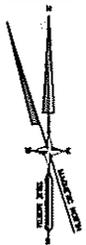
 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and does, does not, give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

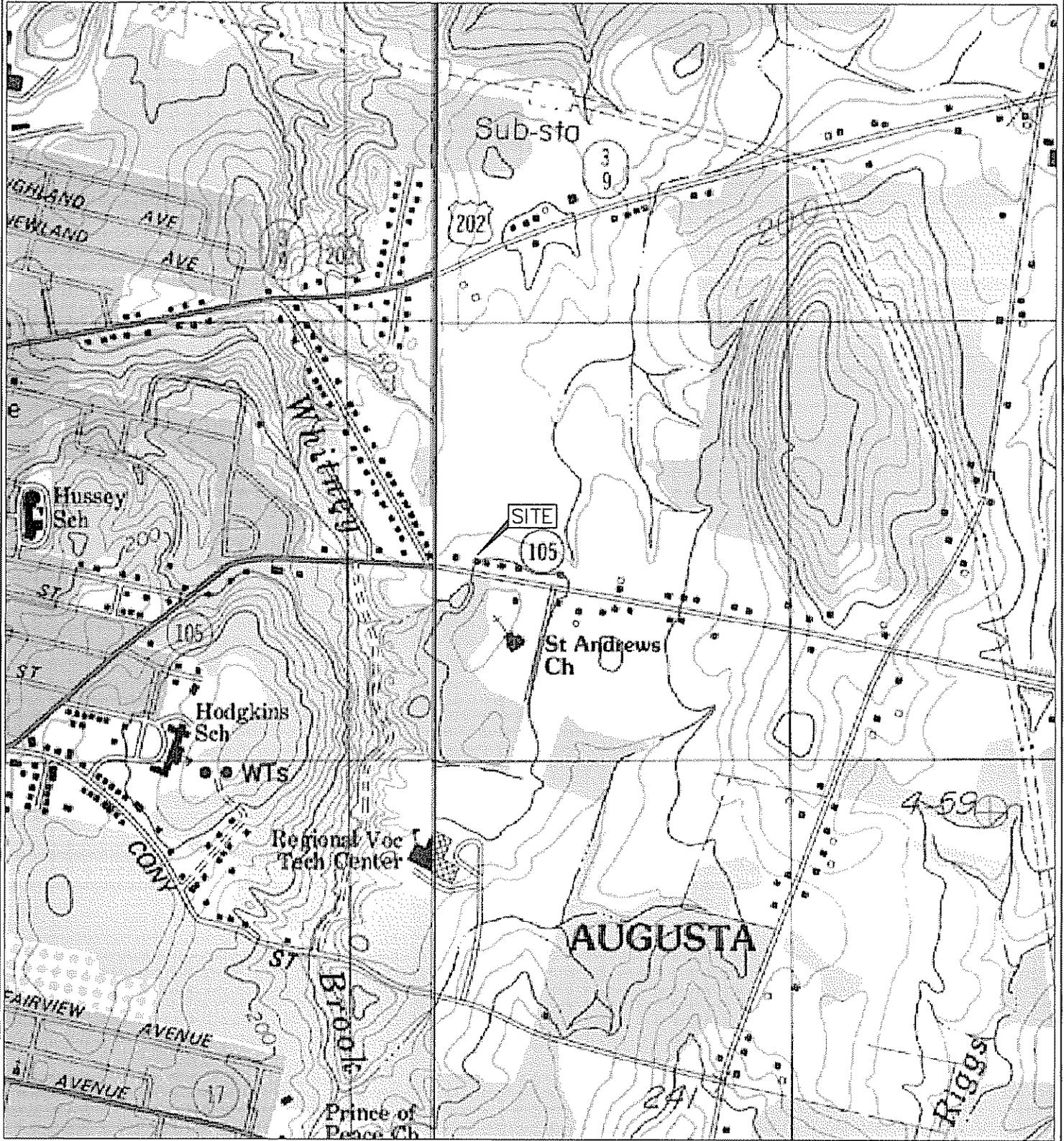
 SIGNATURE OF THE DEPARTMENT

 DATE



SITE LOCATION MAP

SCALE 1" = 1000'



HHE-200

ENGINEERING
E.S. COFFIN
 SURVEYING
 CONSULTANTS

E.S. COFFIN ENGINEERING & SURVEYING, INC.
 412 1/2 Old Road 251, Box 1087, Augusta, Maine 04330
 Tel: (207) 625-9471 Fax: (207) 625-9473 Toll Free: 1-800-244-9479

DESIGNED BY:
Jeff French
 SEPTIC SYSTEM DESIGN

LOCATION: 161 SOUTH BELLEFAY ROAD
 TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE

TITLE SHEET:
SITE LOCATION MAP

SCALE: AS SHOWN
 DATE: DECEMBER 12, 2009

Town, City, Plantation
 Augusta

Street, Road, Subdivision
 161 South Belfast Road

Owner's Name
 Jeff French

SITE PLAN

Scale: 1" = ___ feet

TEXTURE TERMS

Sand
 Loamy sand
 Sandy loam
 Loam
 Silty loam
 Silty clay loam
 Silty clay
 Bedrock

TEXTURE

ABUNDANCE
 Very-36-60%
 Extremely-61-90%

MODIFIER TERMS

VF-very fine
 F-fine
 M-medium
 C-course
 ROCK
 Gravely-0.1-3"
 Cobbley-3-10"
 Stony-+10"

MOTTLING

CONTRAST
 Faint
 Distinct
 Prominent

ABUNDANCE
 None
 Few-<2%
 Common-2-20%
 Many->20%

CONSISTENCE

TERMS
 Loose
 Friable
 Firm
 Very Firm
 Cemented

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole TP 1 Test Pit Boring

3/4" Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
0 gravely fine	Frable	Lt. Ol. Br.	None
sandy loam			Common Distinct
10		Bedrock	
20			
30			
40			
50			

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water
<u>2</u> <u>AI</u>	<u>3</u> %	<u>143"</u>	<input type="checkbox"/> Restrictive Layer
Profile Condition			<input checked="" type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Observation Hole TP 2 Test Pit Boring

3/4" Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
0 fine sandy loam	Frable	Lt. Ol. Brown	None
			Common Distinct
10		Bedrock	
20			
30			
40			
50			

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water
<u>2</u> <u>AI</u>	<u>2</u> %	<u>87"</u>	<input type="checkbox"/> Restrictive Layer
Profile Condition			<input checked="" type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Site Evaluator's Signature Karen P. Coffey

SE # 331

Date: 12/02/09

HHE-200

12/3/09 - 3:25 PM. Per phone conversation with Karen Coffey to travel changed limiting depth to mottling 87".

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation
Augusta

Street, Road, Subdivision
161 South Belfast Road

Owner's Name
Jeffrey French

FILL REQUIREMENTS
Depth of Fill (Upslope) 46-51"
Depth of Fill (Downslope) 46"

CONSTRUCTION ELEVATIONS
Reference Elevation is 00"
Bottom of Disposal Area n/a
Top of Pipe n/a

ELEV. REF. PT:

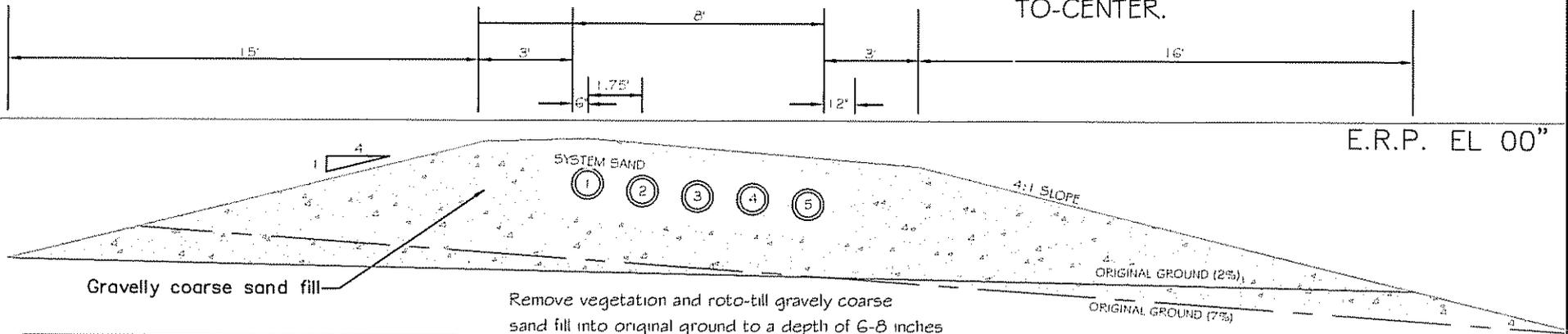
50d spike in 28" Maple Tree
46" above ground

SCALE:

Vertical: 1 inch = 5 feet
Horizontal: 1 inch = 5 feet

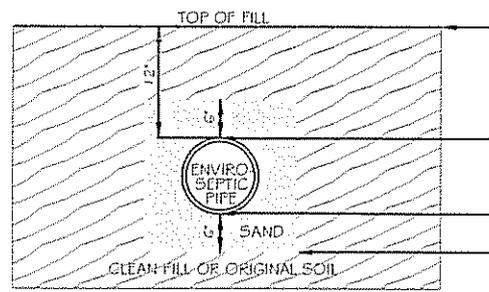
DISPOSAL AREA CROSS SECTION

INSTALL 5 LINES OF ENVIRO-SEPTIC
PIPE (40' LONG), 1-3/4' APART CENTER-
TO-CENTER.



CONSULT THE DESIGN & INSTALLATION MANUAL
FOR THE ENVIRO-SEPTIC LEACHING SYSTEM
PRESBY ENVIRONMENTAL, INC. 1-800-473-5298

INSTALL 6" OF MEDIUM TO COARSE
SAND WITH AN EFFECTIVE PARTICLE
SIZE OF 0.25 TO 2.0 MM, WITH NO
GREATER THAN 5% PASSING A #200
SIEVE AND NO PARTICLES LARGER
THAN 3/4" AROUND THE PIPE.



DETAIL (no scale)

ROW 1	ROW 2	ROW 3	ROW 4	ROW 5
-07"	-09"	-11"	-12"	-14"
-19"	-21"	-23"	-24"	-26"
-31"	-33"	-35"	-36"	-38"
-37"	-39"	-41"	-42"	-44"

Site Evaluator's Signature *Karen P. Coffin*

SE # 331

Date: 12/02/09

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services (207) 287-5672
 Division of Health Engineering (207) 287-4172 (fax)

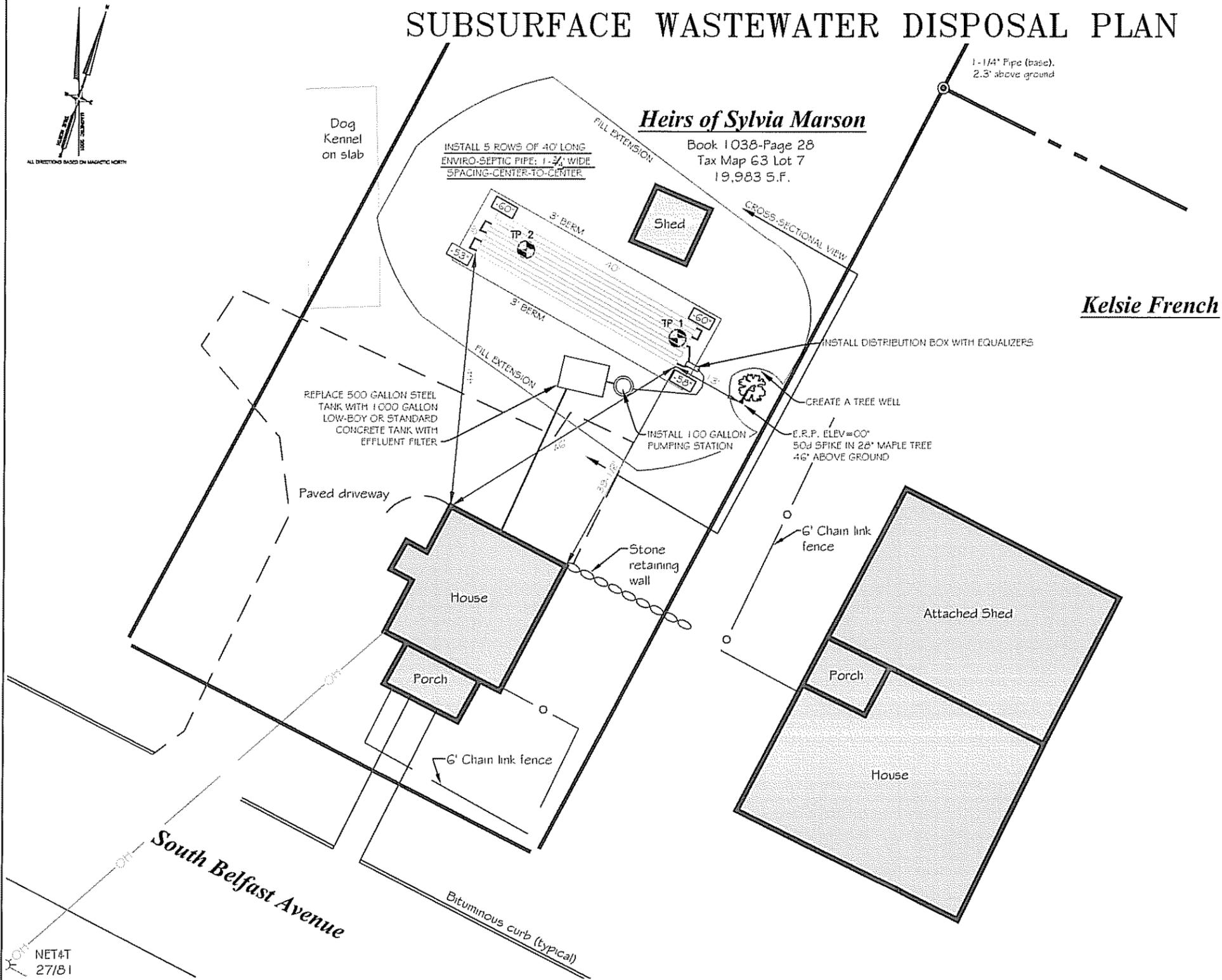
Town, City, Plantation
Augusta

Street, Road, Subdivision
161 South Belfast Avenue

Owner's Name
Jeffrey French

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20'



DISPOSAL FIELD CONSTRUCTION TECHNIQUES

1. Vegetation shall be cut and removed from the area where backfill material is to be placed.
2. The area under the disposal field and backfill extensions shall be roto-tilled with gravely coarse sand fill to a depth of 6-8 inches to form a Transitional Horizon.
3. Fill large holes that are left as a result of stump or stone removal with gravely coarse sand fill.
4. Surface water (from roofs or upland) must be diverted away from the disposal field.
5. Septic tank(s), grease trap, pumping station, and lines may be relocated to accommodate site conditions as long as setbacks and intent of design are met.
6. All construction shall conform with Title 22 MRSA, Section 42, 10-144A-CMR 241 "Maine Subsurface Waste Water Disposal Rules" and other pertinent sections.
7. The owner/contractor shall carefully observe the vertical distance between the E.R.P. and the bottom of the leach field and notify the Site Evaluator promptly if separation distance appears to be at odds with the original ground.
8. The owner/applicant is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits.

ELEVATION REFERENCE POINT	ELEVATION: <u>00'</u>
	DESCRIPTION: 50d spike in 28" Maple Tree (46" above ground)
SHEET TITLE	PLAN VIEW
PROJECT	JEFFREY FRENCH
LOCATION	161 SOUTH BELFAST AVENUE
TOWN	AUGUSTA
COUNTY	KENNEBEC
STATE	MAINE
SCALE	1" = 20'
DATE	DECEMBER 2, 2009
PROJ. NO.	2009-161

Site Evaluator's Signature *Kane P. Coffin*

SE # 331

Date: 12/02/09

HHE-200