SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Heath Engineering
(207) 287-5672 FAX (207) 287-4172

PROPERTY ADDRESS

Town Or Plantation	Augusta
Street	Young Road
Subdivision Lot #	

AUGUSTA 4220 TOWN COPY
Date Permit Issued 7/8/99
$ 120.00 FEE ☐ If Double Fee Charged
L.P.I. # SOD
Local Plumbing Inspector Signature

PROPERTY OWNERS NAME

Last: Murray First: Logan

Mailing Address of Owner/Applicant (If Different)	RR 1 Box 922 Augusta, ME 04330
Daytime Tel. #	621-1825

Municipal Tax Map # 12 Lot # 15

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge, that I have read and agree with the conditions on the back of this form and understanding that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Mary MacDonald Murray 7/8/99
Signature of Owner/Applicant Date

Caution: Inspection Required

I have inspected the installation authorized above and on back of this form and found it to be in compliance with the Subsurface Wastewater Disposal Rules and local ordinances.

Local Plumbing Inspector Signature 11/2/99
Date Approved

PERMIT INFORMATION

THIS APPLICATION IS FOR:

1. ☐ First Time System
2. ☐ Multi-User System
3. ☒ Replacement System
4. ☐ Expanded System
   a. ☐ One-time exempted
   b. ☐ Non-exempted
5. ☐ Experimental System
6. ☐ Seasonal Conversion

THIS APPLICATION REQUIRES:

1. ☐ No Rule Variance
2. ☐ First Time System Variance (Municipal)
3. ☐ First Time System Variance (State)
4. ☒ Replacement System Variance
   a. ☒ Local Plumbing Inspector approval
   b. ☐ State & Local Plumbing Inspector approval
5. ☐ Minimum Lot Size Variance
6. ☐ Seasonal Conversion Variance

DISPOSAL SYSTEM COMPONENT(S)

1. ☒ Non-Engineered System
2. ☐ Primitive System
3. ☐ Alternative Toilet
   Specify _____
4. ☐ Non-Engineered Treatment Tank
5. ☐ Holding Tank ____Gallons
6. ☐ Non-Engineered Disposal Area (only)
7. ☐ Separated Laundry System
8. ☐ Engineered System (+2000 gpd)
9. ☐ Engineered Treatment Tank (only)
10. ☐ Engineered Disposal Area (only)

SIZE OF PROPERTY

50 acres
(approximate)

SHORELAND ZONING

☒ Yes ☐ No

DISPOSAL SYSTEM TO SERVE:

1. ☒ Single Family Dwelling Unit
2. ☐ Multiple Family Dwelling Unit
   Number of Units _____
3. ☐ Other specify

TYPE OF WATER SUPPLY

DRILLED WELL

TREATMENT TANK

1. ☒ Concrete
   ☒ Regular
   ☐ Low Profile
2. ☐ Plastic

SIZE: *1000* Gallons

DISPOSAL AREA TYPE/SIZE

1. ☐ Stone Bed ____ Sq. Ft.
2. ☒ Proprietary Device 891 Sq. Ft.
   ☒ Clustered ☐ Linear
   ☒ Regular ☐ H-20
3. ☐ Trench _____Linear Ft.
4. ☐ Other _____

GARBAGE DISPOSAL UNIT

1. ☒ No
2. ☐ Yes
   ☐ Multi-compartment tank
   ☐ Tank in series
   ☐ Increase in tank capacity
   ☐ Filter on tank outlet

CRITERIA USED FOR DESIGN FLOW

(Show Calculations)

3 BEDROOM
SINGLE FAMILY DWELLING

PROFILE & DESIGN CLASS

PROFILE	DESIGN
3	*d*

DEPTH TO MOST LIMITING FACTOR *9"*

DISPOSAL AREA SIZING

1. ☐ Small 2. 0
2. ☐ Medium 2.60
3. ☒ Medium-Large 3.30
4. ☐ Large 4.10
5. ☐ Extra-Large 5.00

PUMPING

1. ☐ Not required
2. ☐ May be required
3. ☒ Required

Dose 80 Gallons

DESIGN FLOW: **270** (Gallons/Day)

SITE EVALUATOR STATEMENT

On *MAY 22, 1999* (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Kane P. Coffin
Kane P. Coffin, an agent of Coffin Engineering & Surveying

SE #331

MAY 23, 1999
Date

Coffin Engineering & Surveying
(207) 623-9475

RR 7, Box 887A
Augusta, Maine 04330

See back of this form for conditions of permit

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 reasonable 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, 144A CMR "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 CE&S to the amount of the total fee paid to CE&S.
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. 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 than those shown on the site plan or when other structures, additions, or appurtenances (i.e. swimming pools, garbage disposals) are considered. Property lines shown are as provided by the owner, or his agent and no guarantee of accuracy is implied. Actual property lines must be confirmed by boundary survey.

INSTALLATION REQUIREMENTS

1. SETBACKS (under 1000 gpd) - Keep tank and leach fields 100 feet from wells, 50 feet from minor water courses, 100 feet from major water courses, and 10 feet from property lines, unless noted elsewhere on the forms. Septic tanks shall be a minimum of 8 feet from buildings and leach fields shall be 20 feet from buildings with basements and 15 feet from buildings with no full basement.
2. DRAINAGE - water runoff and drainage from basements, footings, or roofs shall not drain into the septic system and shall be diverted away from the disposal field.
3. DISCHARGE - hot tubs shall not discharge into any disposal system utilized for any other waste water, but may be discharged into a separate laundry disposal field. No paint, paint thinner, commercial grease and oil, darkroom chemicals, etc. shall be disposed of in the disposal field.
4. CONDITIONS - excavations shall not be carried out when the soil moisture content is above the plastic limit. Disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing.
5. SITE PREPARATION - prior to placing backfill material, the vegetation shall be cut and removed. In areas adjacent to water bodies or wetland, erosion and sediment control measures shall be employed. The area under the disposal field and backfill extensions shall be plowed or disked to produce a thoroughly roughened surface to a depth of 6 to 8 inches. Surface water shall be diverted away from the disposal field.
6. EXCAVATION - the bottom of the each disposal field shall be installed at the elevation specified on this form. Avoid compaction of both sidewalls and bottom area. Make sure heavy equipment is not driven over the exposed bottom of the disposal field. If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores.
7. BACKFILLING - At least 4 inches of cover material, suitable for establishment of a good vegetative cover shall be placed over the entire filled area including the fill material extensions. Backfill material shall be a minimum of 8 inches in thickness and consist of a coarse sand to a gravely coarse sand. Final grading shall be completed so that surface water will not collect over the disposal field. Immediately after completion of final grading, the fill material surface shall be stabilized by mulching and seeding to establish a good vegetative cover to prevent erosion. Grass, clover, trefoil, vetch, perennial wild flowers, or other herbaceous perennials may be utilized for disposal field surfaces. Woody shrubs or trees are unacceptable on disposal field surfaces.
8. SEPTIC TANK - The septic tank must be installed level and all joints, inspection covers, etc. must be water tight (the same is necessary for a pump tank if the system requires one). The outlet invert elevation should be equal to or higher than the finish grade of the septic field to avoid flooding of the tank and solids entering the field. Install a Zabel Industries, Inc. filter or equivalent on the outlet end of the septic tank when possible. Provide low profile septic tank when determined as necessary in the field. Septic tanks should be pumped out and checked every three years or more often to prolong the life of the waste water system.
9. FREEZING - Protect tanks, force mains, pump stations, D-boxes, etc. from freezing by either adequate ground cover or insulating.
10. 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.

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request an HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1903)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD_5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION

Town of Augusta

Permit No. 4222D

Date Permit Issued 7/8/99

Property Owner's Name: Logan Murray Tel. No.:

System's Location:

Property Owner's Address:

(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. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have 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.

Mary Maidment Murray
SIGNATURE OF OWNER

7/8/99
DATE

LOCAL PLUMBING INSPECTOR

I, Gary R. Fortin, 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 (check and complete either a or b):

☒ a. (☒ 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. –OR–

☐ b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (☐ recommend, ☐ do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments:

Gary R. Fortin
LPI SIGNATURE

7/8/99
DATE

HHE-204 Rev 3/97

RECEIVED

JUL 8 1999

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS						
Soil Profile	Ground Water Table		to 7"		9	Inches
Soil Condition	Restrictive Layer		to 7"			Inches
from HHE-200	Bedrock		to 12"			Inches
SETBACK DISTANCES (in feet)	Disposal Fields		Septic Tanks		Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Less Than 1000 gpd	1000 to 2000 gpd	To	To
Wells with water usage of 2000 or more gpd	300[a] ft	300[a] ft	100[a] ft	100[a] ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100[b] down to 50 ft	100 down to 50 ft	109'	80'
Neighbor's wells	100[b] down to 60 ft	200[b] down to 120 ft	100[b] down to 50 ft	100[b] down to 75 ft		
Water supply line	10 ft[a]	20 ft[a]	10 ft[a]	10 ft[a]		
Water course, major - for replacements only, see Table 400.4 for exempted expansions	100 down to 60 ft	200 down to 120 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	25 down to 12 ft	25 down to 12 ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25 ft[d]	25 ft[d]	25 ft[d]	25 ft[d]		
Slopes greater than 3:1	10 ft	18 ft	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Property lines	10 down to 5[c] ft	18 ft down to 9[c] ft	10 ft down to 4[c] ft	15 ft down to 7[c] ft		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1
2. Soil Profile 9" to ground water table
3. 80' from drilled well & dug well to septic tank

Footnotes:

a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and closer to that well than the system it is replacing.
c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

Kane P. Coffin — SITE EVALUATOR'S SIGNATURE

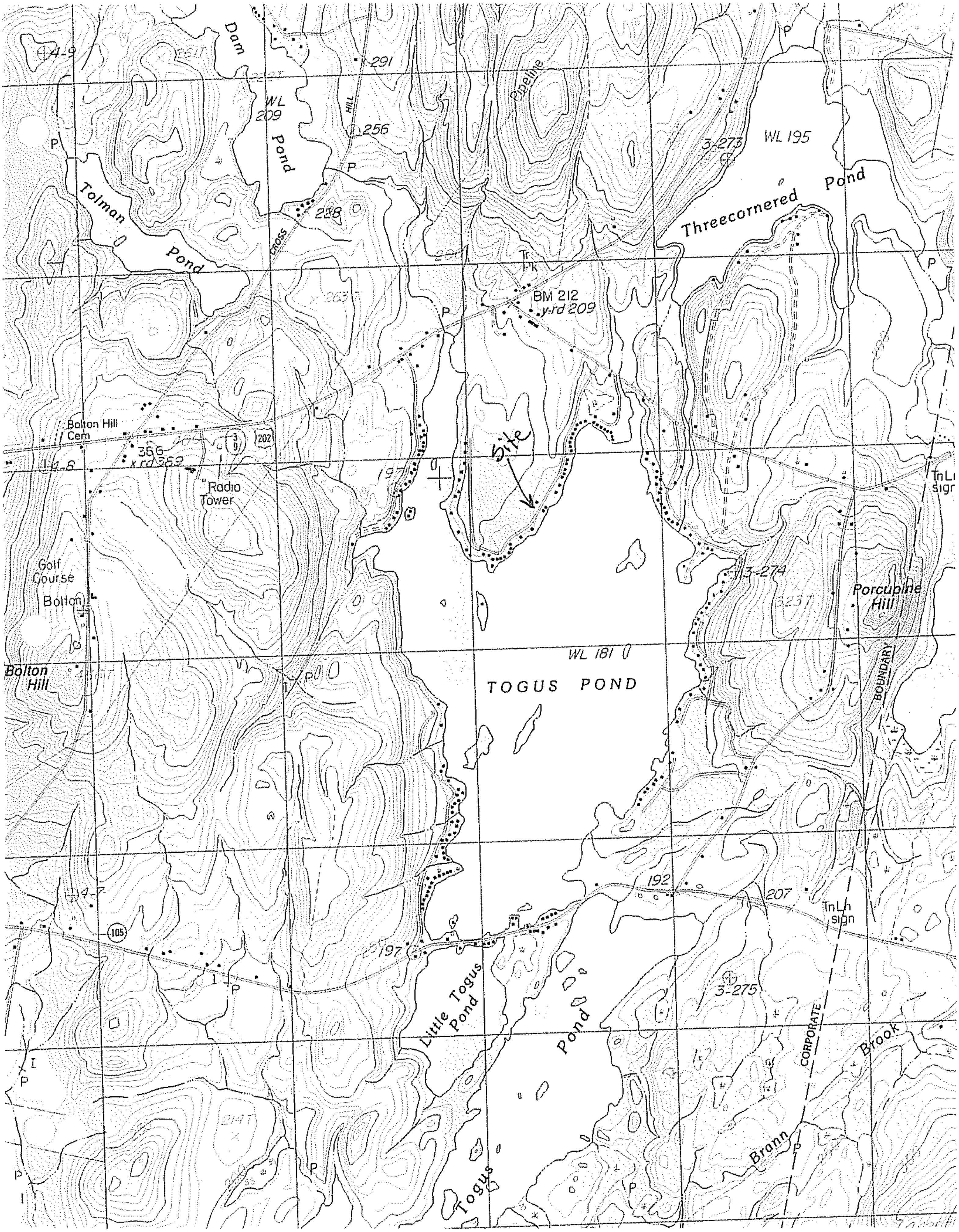
5/23/99 — DATE

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



Dam
Pond
WL 209
291
HILL
256
Pipeline
WL 195
3-273
Threecornered Pond
Tolman Pond
228
CROSS
Tr
Pk
BM 212
y rd 209
P
Bolton Hill Cem
366
x rd 369
202
Radio Tower
Site
197
TnLn sign
3-274
Porcupine Hill
Golf Course
Bolton
WL 181
TOGUS POND
Bolton Hill
BOUNDARY
192
207
4-7
105
197
3-275
Little Togus Pond
Pond
CORPORATE
Brook
Brann
214T
Togus

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Owner's Name	Street, Road, Subdivision	Town, City, Plantation	Zoning
LOGAN MURRAY	YOUNG ROAD	AUGUSTA	SHORELAND

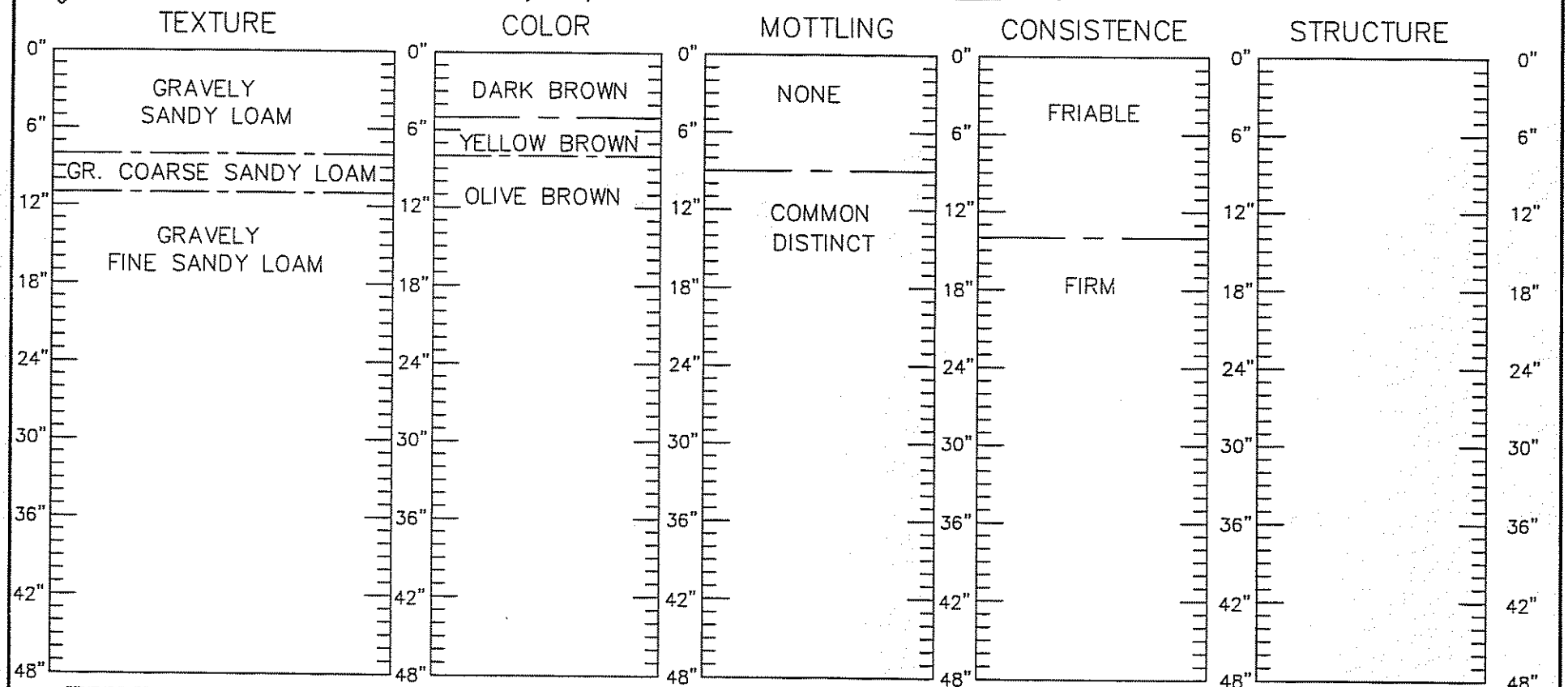
SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole TP 1 ◆ Test Pit ◇ Boring

Soil	Classification	Slope	Depth	Most Limiting
3 Profile	D Condition	1 %	9"	Ground Water ◆
			"	Restrictive Layer ◇
			"	Bedrock ◇

◇ Excessive surface stones (more than 50% by area)

" Organic Matter



TEXTURE TERMS
Sand
Loamy sand
Sandy loam
Loam
Silt loam
Silty clay loam
Silty clay
Bedrock

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

MODIFIER TERMS
VF–very fine
F–fine
M–medium
C–course

ROCK
Gravelly–0.1–3"
Cobbly–3–10"
Stony–+10"

CONTRAST
Faint
Distinct
Prominent

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

TERMS
Loose
Friable
Firm
Very Firm
Cemented

TERMS
Single grain
Spherical
Subangular blocky
Blocky
Prismatic
Platy
Massive

COMMENTS:

Site Evaluator's Signature Kane P. Coffin SE # 331 Date: 05/23/99

HHE–200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Owner's Name	Street, Road, Subdivision	Town, City, Plantation	Zoning
LOGAN MURRAY	YOUNG ROAD	AUGUSTA	SHORELAND

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole TP 2 ◆ **Test Pit** ◇ **Boring**

Soil	Classification	Slope	Depth	Most Limiting
3 Profile	D Condition	1 %	9"	Ground Water ◆
			"	Restrictive Layer ◇
			"	Bedrock ◇

◇ Excessive surface stones (more than 50% by area)

" Organic Matter

TEXTURE

0" GRAVELY SANDY LOAM
6" GR. COARSE SANDY LOAM
12" GRAVELY FINE SANDY LOAM
18"
24"
30"
36"
42"
48"

COLOR

0" DARK BROWN
6" LT. OLIVE BROWN
12" OLIVE
18"
24"
30"
36"
42"
48"

MOTTLING

0" NONE
6"
12" COMMON DISTINCT
18"
24"
30"
36"
42"
48"

CONSISTENCE

0" FRIABLE
6"
12"
18" FIRM
24"
30"
36"
42"
48"

STRUCTURE

0"
6"
12"
18"
24"
30"
36"
42"
48"

TEXTURE TERMS
Sand
Loamy sand
Sandy loam
Loam
Silt loam
Silty clay loam
Silty clay
Bedrock

ABUNDANCE
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Extremely–61–90%

MODIFIER TERMS
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F–fine
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Common–2–20%
Many–>20%

TERMS
Loose
Friable
Firm
Very Firm
Cemented

TERMS
Single grain
Spherical
Subangular blocky
Blocky
Prismatic
Platy
Massive

COMMENTS: _____

Site Evaluator's Signature Kane P. Coffin SE # 331 Date: 05/23/99

HHE–200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
AUGUSTA	YOUNG ROAD	LOGAN MURRAY

FILL REQUIREMENTS

Depth of Fill (Upslope)	31–33"
Depth of Fill (Downslope)	33–36"

CONSTRUCTION ELEVATIONS

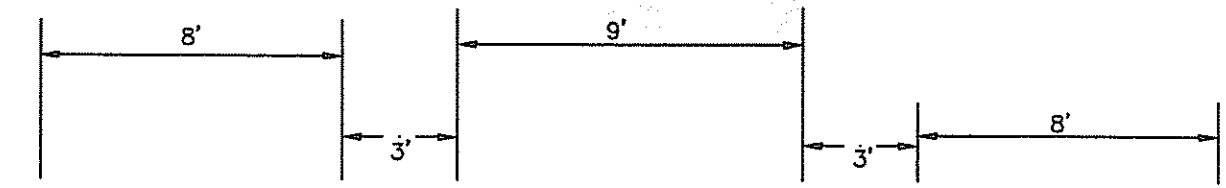
Reference Elevation is	00"
Bottom of Disposal Area	–45"
Top of Chambers	–33"

ELEV. REF. PT:

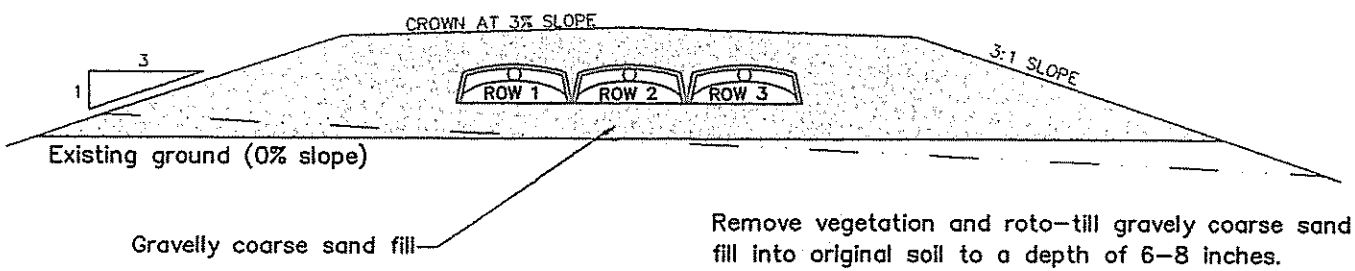
16d SPIKE IN 9" PINE TREE
53" ABOVE GROUND

DISPOSAL AREA CROSS SECTION

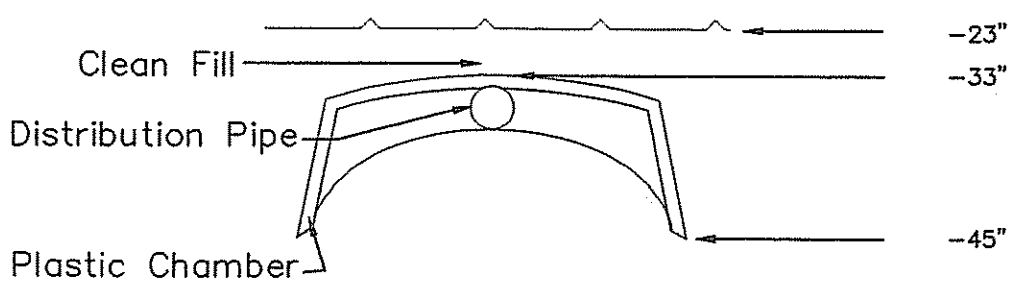
SCALE:
Vertical: 1 inch = 5 feet
Horizontal: 1 inch = 5 feet



E.R.P.
EL 00"



INSTALL 27 LOW-PROFILE PLASTIC CHAMBERS (CLUSTERED)



DETAIL (no scale)

Site Evaluator's Signature Kane P. Coffin SE # 331 Date: 05/23/99 HHE–200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

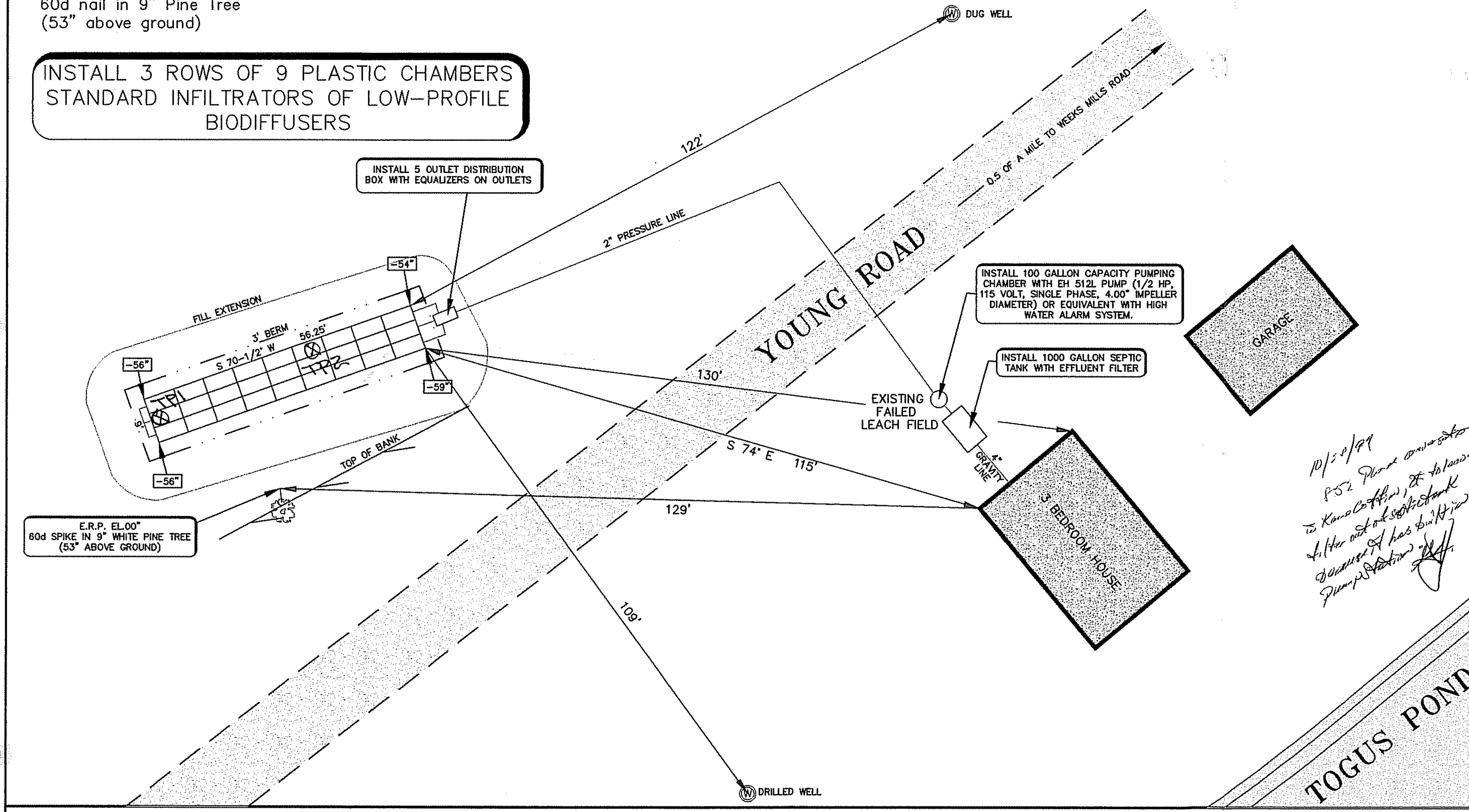
Department of Human Services
Division of Health Engineering

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
AUGUSTA	YOUNG ROAD	LOGAN MURRAY

SUBSURFACE WASTEWATER DISPOSAL PLAN & SITE PLAN

ELEV. REF. PT:
60d nail in 9" Pine Tree
(53" above ground)

SCALE: 1" = 20'



Site Evaluator's Signature [signature] SE # 331 Date: 05/23/99

SHEET TITLE: HHE-200 FORM
SCALE: 1" = 20'
DATE: MAY 23, 1999
PROJECT: LOGAN MURRAY
LOCATION: YOUNG ROAD
TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE

COFFIN ENGINEERING SURVEYING
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RR #7 BOX 887A AUGUSTA, MAINE 04330 1-800-244-9475

NO. | REVISIONS | DATE

PROJ. NO. 99088

HHE-200