88006

Department of Human Services
Division of Health Engineering
(207)289-3826

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town Copy! 1-24A

AUGUSTA PERMIT # 1,344 TOWN COPY

Date Permit Issued: 6/13/88 $ 40.00 FEE ☐ If Double Fee Charged

Local Plumbing Inspector Signature: Gary R. Fuller L.P.I. # 8510

PROPERTY ADDRESS

Town Or Plantation	Augusta
Street Subdivision Lot #	Bog Road

PROPERTY OWNERS NAME

Last: Szela First: Michael E.

Applicant Name:	Michael E. Szela
Mailing Address of Owner/Applicant (If Different)	38 Linwood Avenue Augusta, Maine 04330

Owner/Applicant Statement

I certify that the Information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Signature of Owner/Applicant: Ellen Lee Szela Date: 5/25/88

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules.

Local Plumbing Inspector Signature: Gary R. Fuller Date Approved: Nov. 22, 1988

PERMIT INFORMATION

THIS APPLICATION IS FOR:
1. ☒ NEW SYSTEM
2. ☐ REPLACEMENT SYSTEM
3. ☐ EXPANDED SYSTEM
4. ☐ EXPERIMENTAL SYSTEM

SEASONAL CONVERSION n/a
to be completed by the LPI
5. ☐ SYSTEM COMPLIES WITH RULES
6. ☐ CONNECTED TO SANITARY SEWER
7. ☐ SYSTEM INSTALLED – P# _____
8. ☐ SYSTEM DESIGN RECORDED AND ATTACHED

IF REPLACEMENT SYSTEM: n/a
YEAR FAILING SYSTEM INSTALLED _____
THE FAILING SYSTEM IS:
1. ☐ BED 3. ☐ TRENCH
2. ☐ CHAMBER 4. ☐ OTHER: _____

THIS APPLICATION REQUIRES:
1. ☒ NO RULE VARIANCE
2. ☐ NEW SYSTEM VARIANCE Attach New System Variance Form
3. ☐ REPLACEMENT SYSTEM VARIANCE Attach Replacement System Variance Form
a. ☐ Requiring Local Plumbing Inspector Approval
b. ☐ Requires State and Local Plumbing Inspector Approval
4. ☐ MINIMUM LOT SIZE VARIANCE

DISPOSAL SYSTEM TO SERVE:
1. ☒ SINGLE FAMILY DWELLING
2. ☐ MODULAR OR MOBILE HOME
3. ☐ MULTIPLE FAMILY DWELLING
4. ☐ OTHER _____ SPECIFY

INSTALLATION IS:
COMPLETE SYSTEM
1. ☒ NON-ENGINEERED SYSTEM
2. ☐ PRIMITIVE SYSTEM (Includes Alternative Toilet)
3. ☐ ENGINEERED (+2000 gpd)
INDIVIDUALLY INSTALLED COMPONENTS:
4. ☐ TREATMENT TANK (ONLY)
5. ☐ HOLDING TANK _____ GAL
6. ☐ ALTERNATIVE TOILET (ONLY)
7. ☐ NON-ENGINEERED DISPOSAL AREA (ONLY)
8. ☐ ENGINEERED DISPOSAL AREA (ONLY)
9. ☐ SEPARATED LAUNDRY SYSTEM

RECEIVED MAY 25 1988

SIZE OF PROPERTY	ZONING
22.2± acres	rural

TYPE OF WATER SUPPLY
proposed drilled well

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. ☒ SEPTIC: ☒ Regular ☐ Low Profile
2. ☐ AEROBIC (if necessary)
SIZE: 1000 GALS.

WATER CONSERVATION
1. ☒ NONE
2. ☐ LOW VOLUME TOILET
3. ☐ SEPARATED LAUNDRY SYSTEM
4. ☐ ALTERNATIVE TOILET
SPECIFY: _____

PUMPING
1. ☒ NOT REQUIRED
2. ☐ MAY BE REQUIRED (DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)
3. ☐ REQUIRED
DOSE: _____ GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)
3-bedroom, single family dwelling
sized per Table 7-1 of the SSWD Rules (10-144A CMR 241)
(minimum design flow)
DESIGN FLOW: 270 gpd (GALLONS/DAY)

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE	CONDITION
5	C·A/III

DEPTH TO LIMITING FACTOR: 20 at test pit 1

SIZE RATINGS USED FOR DESIGN PURPOSES
1. ☐ SMALL
2. ☒ MEDIUM
3. ☐ MEDIUM-LARGE
4. ☐ LARGE
5. ☐ EXTRA LARGE

DISPOSAL AREA TYPE/SIZE
1. ☐ BED _____ Sq. Ft.
2. ☒ CHAMBER 375 Sq. Ft. ☒ REGULAR ☐ H-20
3. ☐ TRENCH _____ Linear Ft.
4. ☐ OTHER: _____

SITE EVALUATOR STATEMENT

On 5-6-88 (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.

Site Evaluator Signature: William T. Noble SE#: 75 Date: 5-13-88

STATE OF MAINE — WILLIAM T NOBLE #75 — LICENSED SITE EVALUATOR

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

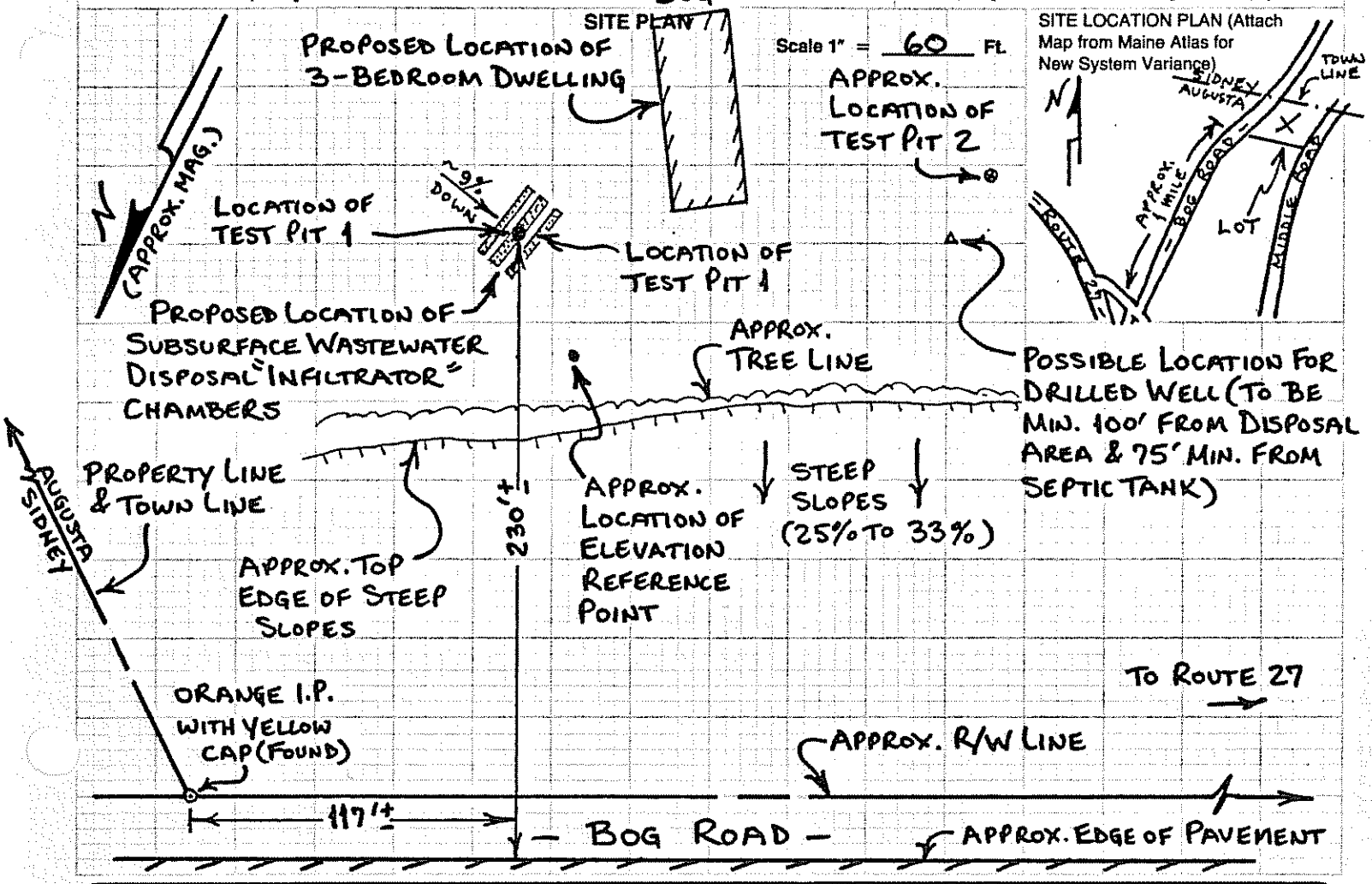
547-3252 / 289-2111

88 006

Department of Human Services
Division of Health Engineering

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation	Street, Road, Subdivision	Owners Name
AUGUSTA	BOG ROAD	MICHAEL E. SZELA



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 1 ☒ Test Pit ☐ Boring

1/2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY LOAM	FRIABLE	DARK BROWN	
LOAMY FINE SAND	VERY FRIABLE	DARK YELLOWISH BROWN	
LOAMY SAND		LIGHT OLIVE	COMMON FAINT
LOAMY SAND MIXED WITH WEATHERED ROCK FRAGMENTS	FRIABLE	OLIVE GRAY	COMMON DISTINCT
→ BEDROCK ←			

Soil Profile	Classification Condition	Slope	Limiting Factor	
5	A/C III	9 %	20"	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole 2 ☒ Test Pit ☐ Boring

1/2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
FINE SANDY LOAM	FRIABLE	DARK BROWN	
LOAMY FINE SAND	VERY FRIABLE	DARK YELLOWISH BROWN / YELLOWISH BROWN	
LOAMY SAND		LIGHT OLIVE	FEW FAINT
	FRIABLE	OLIVE	COMMON DISTINCT

Soil Profile	Classification Condition	Slope	Limiting Factor	
5	C	~0 %	17"	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

William J. Noble
Site Evaluator Signature

Test pit has branch 75 sticking out

SE#

5-13-88
Date

HHE-200 Rev.1/84

88 006

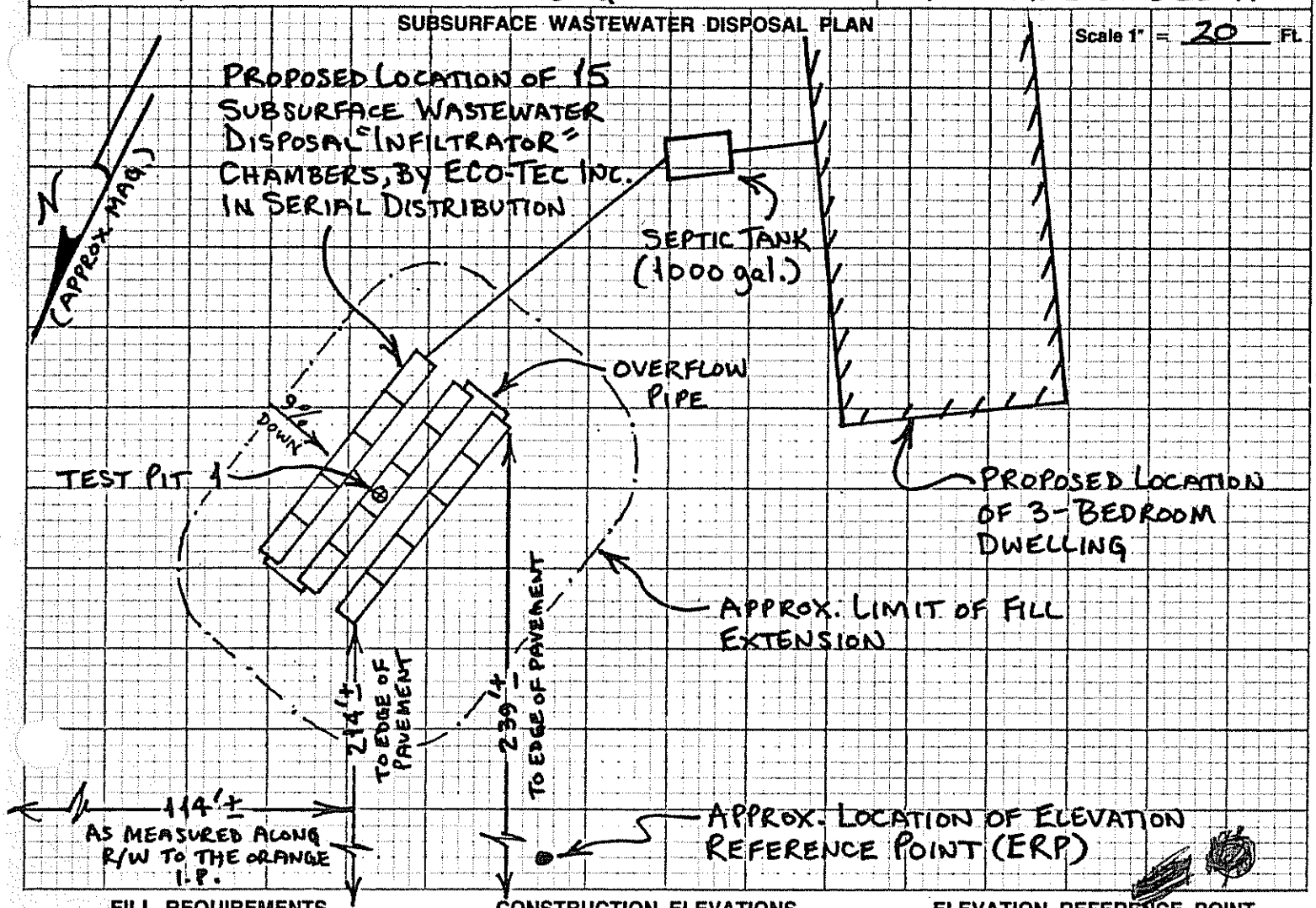
Department of Human Services
Division of Health Engineering

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation	Street, Road, Subdivision	Owners Name
AUGUSTA	BOG ROAD	MICHAEL E. SZELA

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



FILL REQUIREMENTS

Depth of Fill (Upslope) 25"

Depth of Fill (Downslope) 28±"

(SEE DIAGRAM BELOW)

CONSTRUCTION ELEVATIONS

Reference Elevation is 0.0"

Bottom of Disposal Area (SEE CROSS-SECTION

Top of Distribution Lines or Chambers BELOW)

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

NAIL WITH ORANGE FLAGGING IN BIRCH TREE, 85" ABOVE GROUND LEVEL AT TREE BASE.

NOTES:

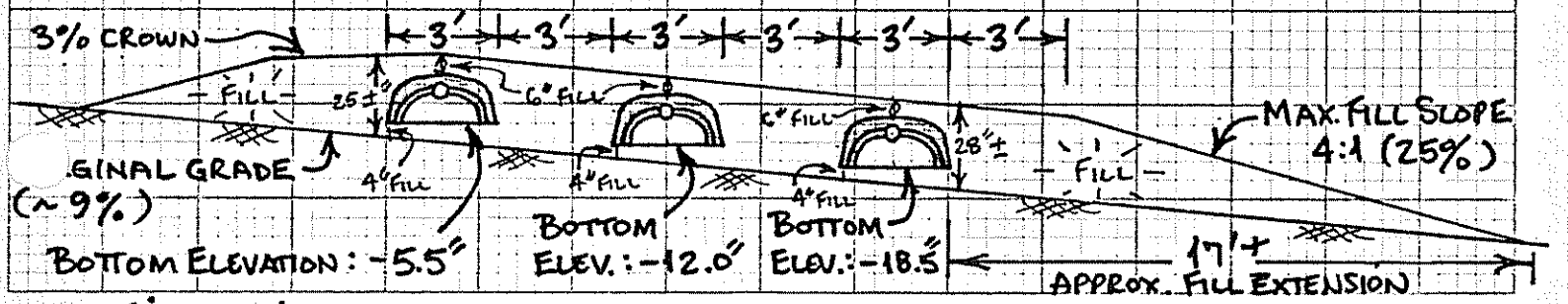
1. INSTALL INFILTRATORS AS DIRECTED BY ECO-TEC, INC.
2. BACKFILL & PERIMETER FILL TO BE SANDY LOAM IN TEXTURE.
3. GRADE LAND AROUND INFILTRATORS TO DIVERT ANY WATER FROM AREA.
4. REMOVE ANY ORGANIC LAYER & SCARIFY THE SOIL SURFACE BEFORE INSTALLING FILL.
5. REQUIRED FILL DEPTHS MAY VARY FROM THOSE SHOWN DUE TO IRREGULARITIES IN SOIL SURFACE.
6. BOTTOM OF INFILTRATORS TO BE LEVEL WITH MAX. GRADE TOLERANCE OF 1" PER 100'.
7. LOCATE TEST PIT 1 ON THE LOT & POSITION INFILTRATORS OVER PIT AS SHOWN IN ABOVE PLAN.
8. FINISH GRADE TO BE SEEDED & MULCHED PER SECTION 11.D OF THE SSWD RULES.

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 Inch = 5 Ft.

Horizontal: 1 Inch = 5 Ft.



William J. Noble
Site Evaluator Signature

75
SE#

5-13-88
Date

HHE-200 Rev. 1/84

William T. Noble
Licensed Site Evaluator / Certified Soil Scientist
RFD 3, Box 186
Augusta, Maine 04330
Tel.: 547-3252

RECEIVED
JUN 13 1988

June 9, 1988
Job. No. 88006

Gary Fuller, Code Enforcement Officer
Code Enforcement Office
City of Augusta
16 Cony Street
Augusta, Maine 04330

Re: Relocation of Proposed Subsurface Wastewater Disposal System, Michael Szela Property, Bog Road, Augusta.

Dear Mr. Fuller,

This letter is in respone to our telephone conversation on June 8, 1988, in regard to revising the location of the subsurface wastewater disposal system area for the Michael Szela property from that proposed in the Subsurface Wastewater Disposal System Application (HHE-200 form), dated 5/13/88.

My understanding is that your office is willing to approve this change in the disposal system plans, as long as you receive a favorable recommendation from me. I have no objections to relocation of the proposed subsurface wastewater disposal area.

The subsurface wastewater disposal area relocation involves shifting the area 12 feet downslope, based on conversations with both Michael and Ellen Szela. The purpose is to provide for a lowering of the system at least 12" from that originally designed, to insure gravity flow of sewage to the disposal area.

Relocation of the subsurface wastewater disposal area will leave test pit 1 outside of this area. However, evaluation of a number of test pits in the vicinity of the building site revealed that the soil profile and conditions are reasonably consistent in this area. An additional test pit in the new area for the disposal system may not be all that helpful since much of the area has now been bulldozed, and the original ground level has been lost.

It is important to establish revised elevations for each chamber row of the subsurface wastewater disposal system, that relate back to test pit 1, at which the original soil surface elevation was determined. The row lowest in elevation in the original 5/13/88 design plans is proposed to become the row highest in elevation for the relocated system, and the elevation of its bottom will remain unchanged at -18.5". There is an approximate 6.5" drop between each chamber row, based on an average ground slope of 9%. Therefore, the bottom elevation of the next two rows are to be -25.0", and -31.5", respectively.

If you have further concerns or questions, please do not hesitate to contact me.

Sincerely,

William T. Noble

William T. Noble
Licensed Site Evaluator #75

cc: M. Szela

88006A

Town, City, Plantation	Street, Road, Subdivision	Owners Name
AUGUSTA	BOG ROAD	MICHAEL E. SZELA

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole 3 ☒ Test Pit ☐ Boring

NONE " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		DARK BROWN	
		OLIVE BROWN	
LOAMY SAND	VERY FRIABLE		
		PALE OLIVE	COMMON FAINT
	SOMEWHAT FIRM (FRIABLE WHEN DISTURBED)	OLIVE	
SANDY LOAM	FIRM	OLIVE BROWN	MANY PROMINENT

Soil	Classification	Slope	Limiting Factor
5 (Profile)	C (Condition)	6-12 %	15 ☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

Soil	Classification	Slope	Limiting Factor
(Profile)	(Condition)	%	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

Revision

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

Soil	Classification	Slope	Limiting Factor
(Profile)	(Condition)	%	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

NOTES:

1.) APPROX. 8" OF TOPSOIL HAS BEEN REMOVED IN THE AREA OF TEST PIT 3. ORIGINAL TOPSOIL DEPTH HAS BEEN ESTIMATED FROM THE AVERAGE OF UNDISTURBED TOPSOIL DEPTH OBSERVED AT TEST PITS 1 AND 2.

2.) THIS SOIL PROFILE DATA (TP 3) WAS USED TO DEVELOP A SUBSURFACE WASTEWATER DISPOSAL SYSTEM LAYOUT REVISING PLANS DATED 5-13-88, AND SHOULD BE ATTACHED TO SAID PLANS.

Observation Hole ☐ Test Pit ☐ Boring

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Texture	Consistency	Color	Mottling

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(Profile)	(Condition)	%	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

STATE OF MAINE WILLIAM T NOBLE 75 LICENSED SITE EVALUATOR

William T. Noble — Site Evaluator Signature

75 — SE#

11-15-88 — Date

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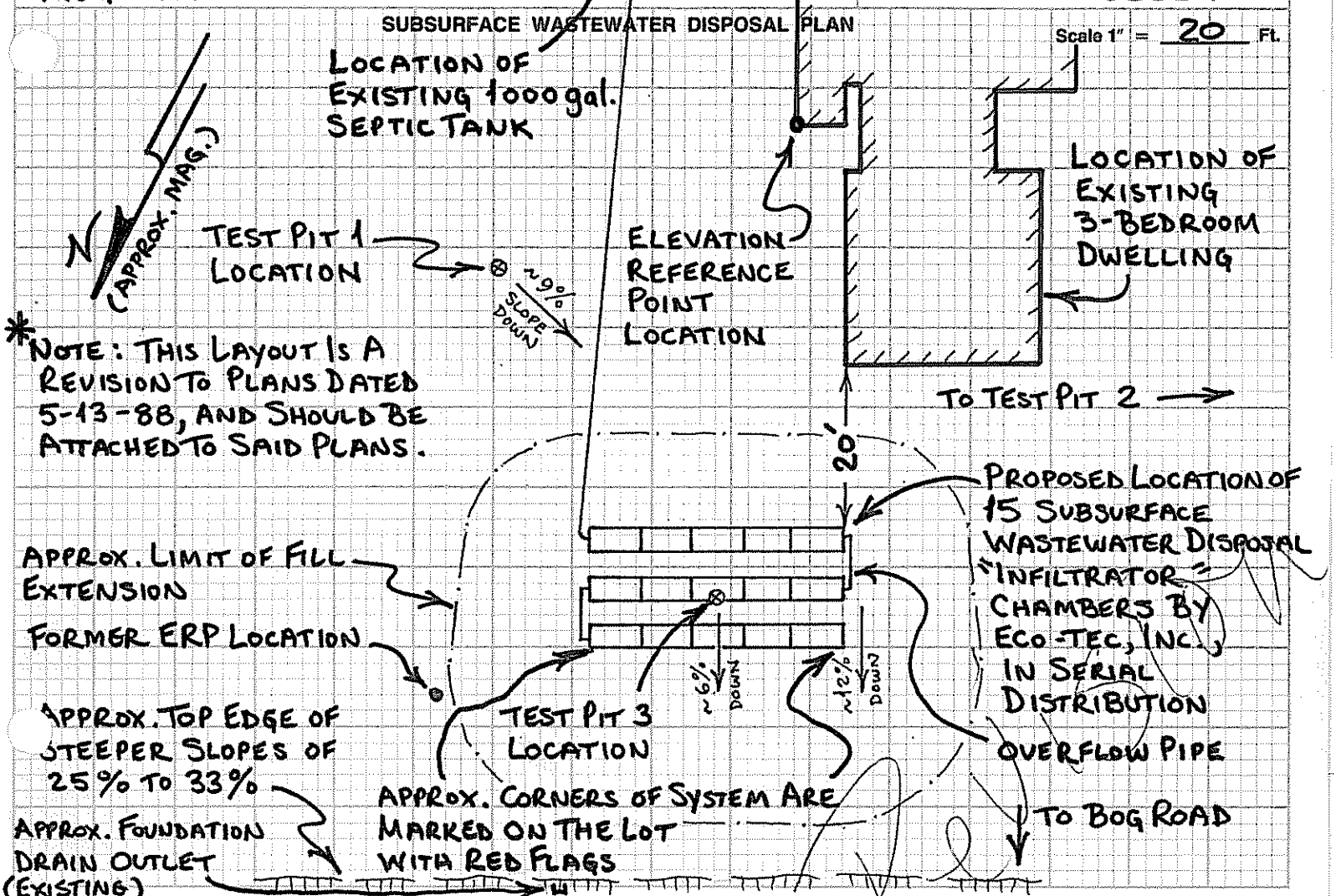
Department of Human Services
Division of Health Engineering

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation	Street, Road, Subdivision	Owners Name
AUGUSTA	BOG ROAD	MICHAEL E. SZELA

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Depth of Fill (Upslope)	38"	Reference Elevation is	0.0"	TOP OF CONCRETE AT CORNER OF BULKHEAD
Depth of Fill (Downslope)	42±"	Bottom of Disposal Area	(SEE CROSS-SECTION BELOW)	
(SEE DIAGRAM BELOW)		Top of Distribution Lines or Chambers		

NOTES:

1. INSTALL INFILTRATORS AS DIRECTED BY ECO-TEC, INC.
2. BACKFILL & PERIMETER FILL TO BE SANDY LOAM IN TEXTURE
3. GRADE LAND AROUND INFILTRATORS TO DIVERT ANY WATER FROM THE AREA.
4. REMOVE ANY ORGANIC LAYER & SCARIFY THE SOIL SURFACE BEFORE INSTALLING FILL.
5. REQUIRED FILL DEPTHS MAY VARY FROM THOSE SHOWN DUE TO IRREGULARITIES IN SOIL SURFACE.
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7. LOCATE TEST PIT 3 ON THE LOT & POSITION INFILTRATORS OVER PIT AS SHOWN IN ABOVE PLAN.
8. INSTALL A 1' LOAM LINER AS REQUIRED BY SEC. 10.E OF THE SSWD RULES (10-144A CMR 241).
9. FINISH GRADE TO BE SEEDED & MULCHED PER SEC. 11.D OF THE SSWD RULES.

DISPOSAL AREA CROSS SECTION

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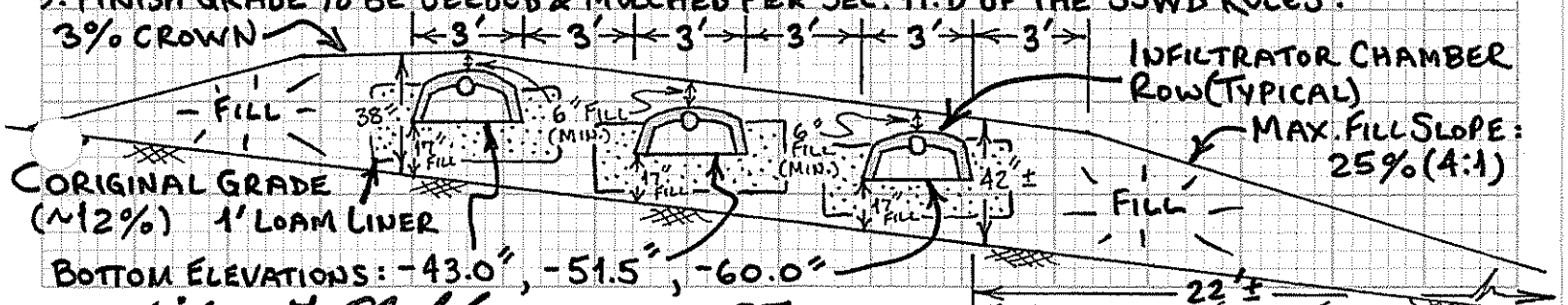

William T. Noble
Site Evaluator Signature

75
SE#

11-15-88 (REVISED)
Date

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88 006A

Town, City, Plantation	Street, Road, Subdivision	Owners Name
AUGUSTA	BOG ROAD	MICHAEL E. SZELA

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STATE OF MAINE
WILLIAM T NOBLE
475
LICENSED
SITE EVALUATOR

William T. Noble — Site Evaluator Signature

75 — SE #

11-15-88 — Date

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88006A

Department of Human Services
Division of Health Engineering

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

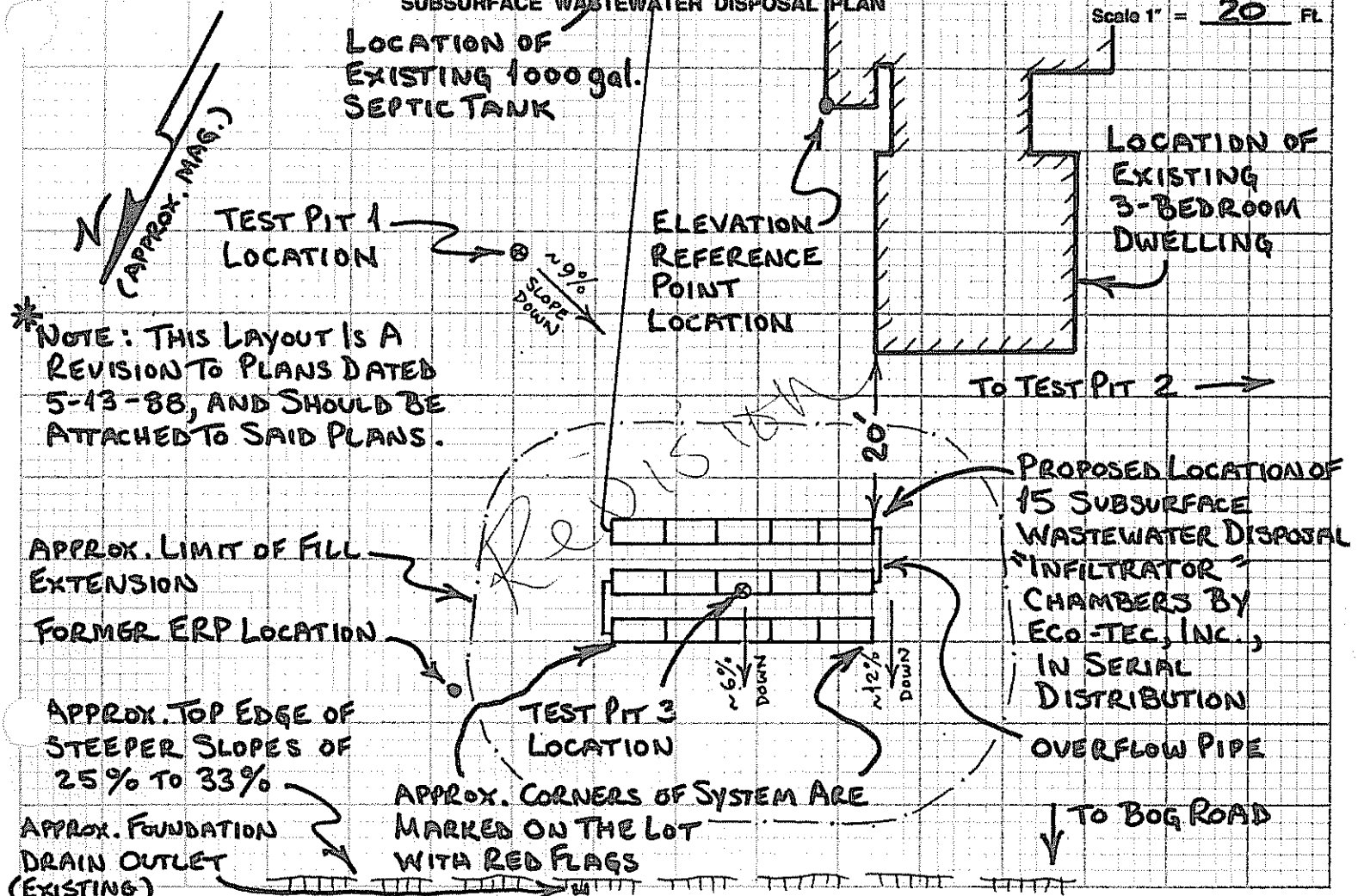
Town, City, Plantation: AUGUSTA

Street, Road, Subdivision: BOG ROAD

Owners Name: MICHAEL E. SZELA

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 FT.



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(SEE DIAGRAM BELOW)		Top of Distribution Lines or Chambers		

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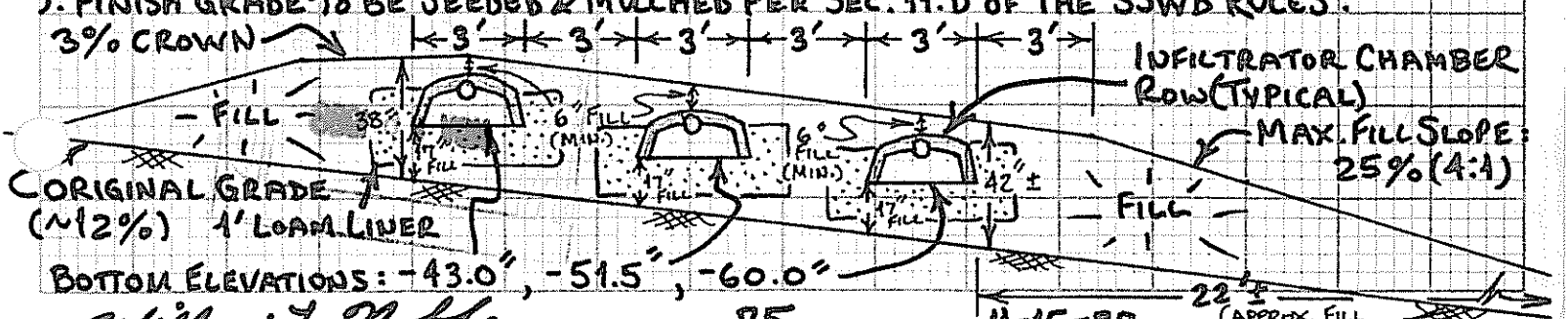

William T. Noble
Site Evaluator Signature

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