ORIGINAL

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

M7L7

AUGUSTA PERMIT # 1,218 TOWN COPY

Date Permit Issued: 11/17/87 $ 150.00 FEE ☐ If Double Fee Charged

Local Plumbing Inspector Signature: [signature] L.P.I. # 883

PROPERTY ADDRESS

Town Or Plantation	Augusta
Street Subdivision Lot #	Church Hill Road

PROPERTY OWNERS NAME

Last: Johnson First: Wick

Applicant Name:	Same
Mailing Address of Owner/Applicant (If Different)	Kennebec Tool + Die Co. Inc. Augusta, ME 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.

Charles F. Johnson III — Signature of Owner/Applicant — Date: 11/5/87

Caution: Inspection Required

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

3/25/88 Disposal Field only — Local Plumbing Inspector Signature: [signature] — Date Approved

PERMIT INFORMATION

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

SEASONAL CONVERSION
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:
YEAR FAILING SYSTEM INSTALLED _____
THE FAILING SYSTEM IS:
1. ☐ BED 3. ☐ TRENCH
2. ☐ CHAMBER 4. ☐ OTHER: _____

SIZE OF PROPERTY: 10 Ac.
ZONING: Commercial – Residential

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 Industrial plant (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

TYPE OF WATER SUPPLY
well to be drilled

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. ☒ SEPTIC: ☒ Regular ☐ Low Profile
2. ☐ AEROBIC
SIZE: 1,000 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: min. of 100 GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)
25 Employees
No showers
15 GPD/employee

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE	CONDITION
9	C

DEPTH TO LIMITING FACTOR: 17

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 937.5 Sq. Ft. ☒ REGULAR ☐ H-20
3. ☐ TRENCH _____ Linear Ft.
4. ☐ OTHER: _____

DESIGN FLOW: 375 (GALLONS/DAY)

SITE EVALUATOR STATEMENT

On Nov. 3, 1987 (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.

Kenneth G. Stratton — Site Evaluator Signature — SE# 157 — Date 11/4/87

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

RECEIVED NOV 4 1987

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

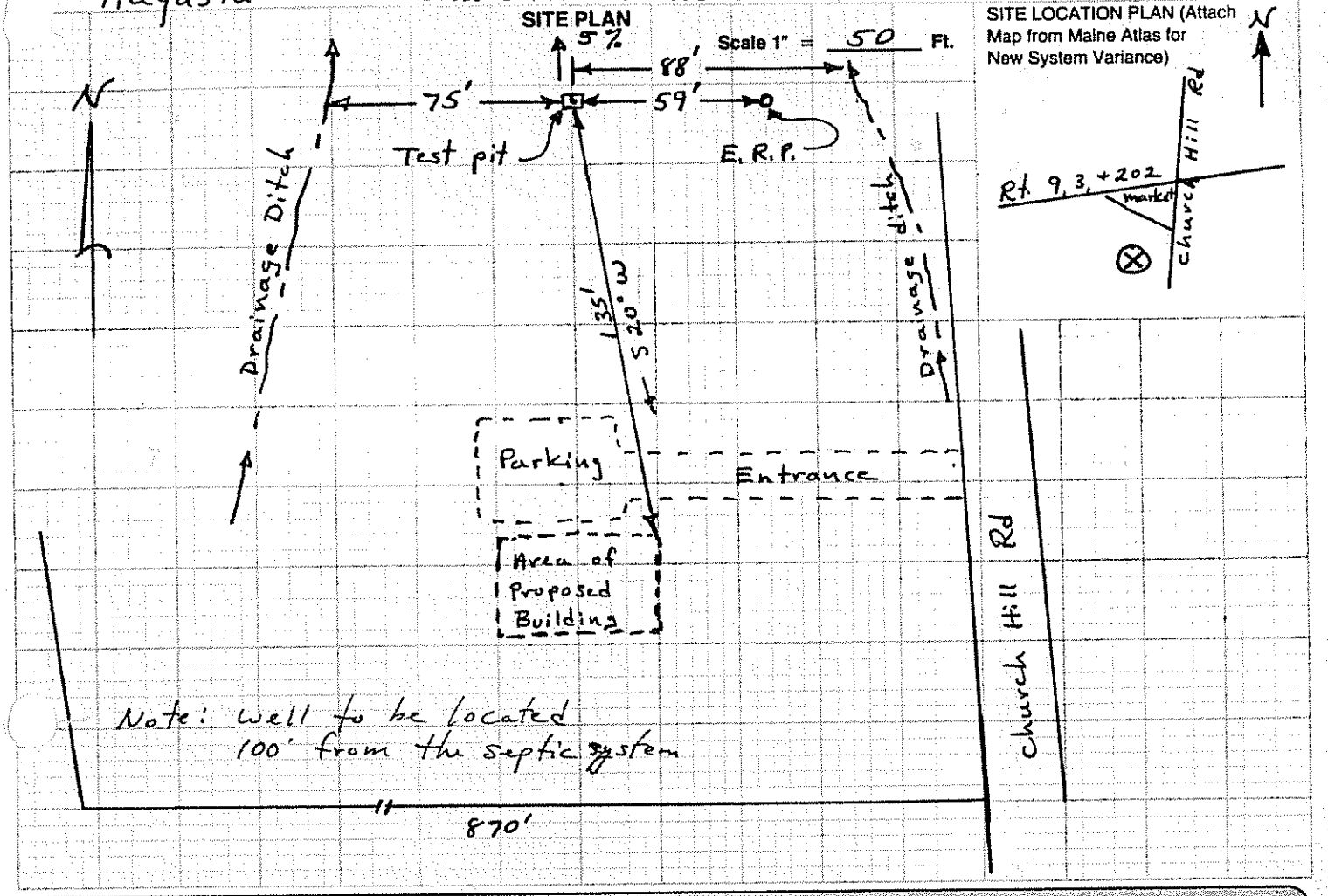
Town, City, Plantation: Augusta

Street, Road, Subdivision: Church Hill Road

Owners Name: Wick Johnson

SITE PLAN

Scale 1" = 50 Ft.



SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)

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

Observation Hole #1 ☒ Test Pit ☒ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Depth	Texture	Consistency	Color	Mottling
0–6	Silt Loam	Friable	Brown	None
6–15	Silt Loam	Friable	Olive	None
15–30	Silt Loam	Friable	Dark olive	Common mottles
30–50	Silty Clay Loam	slightly Firm to plastic	Dark olive	Common Mottles

Soil	Classification	Slope	Limiting Factor	
9 (Profile)	C (Condition)	5 %	17	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock

Observation Hole _____ ☐ Test Pit ☐ Boring

_____ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Depth	Texture	Consistency	Color	Mottling
0–50				

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

Kenneth G. Strelth — Site Evaluator Signature

157 — SE#

11/4/87 — Date

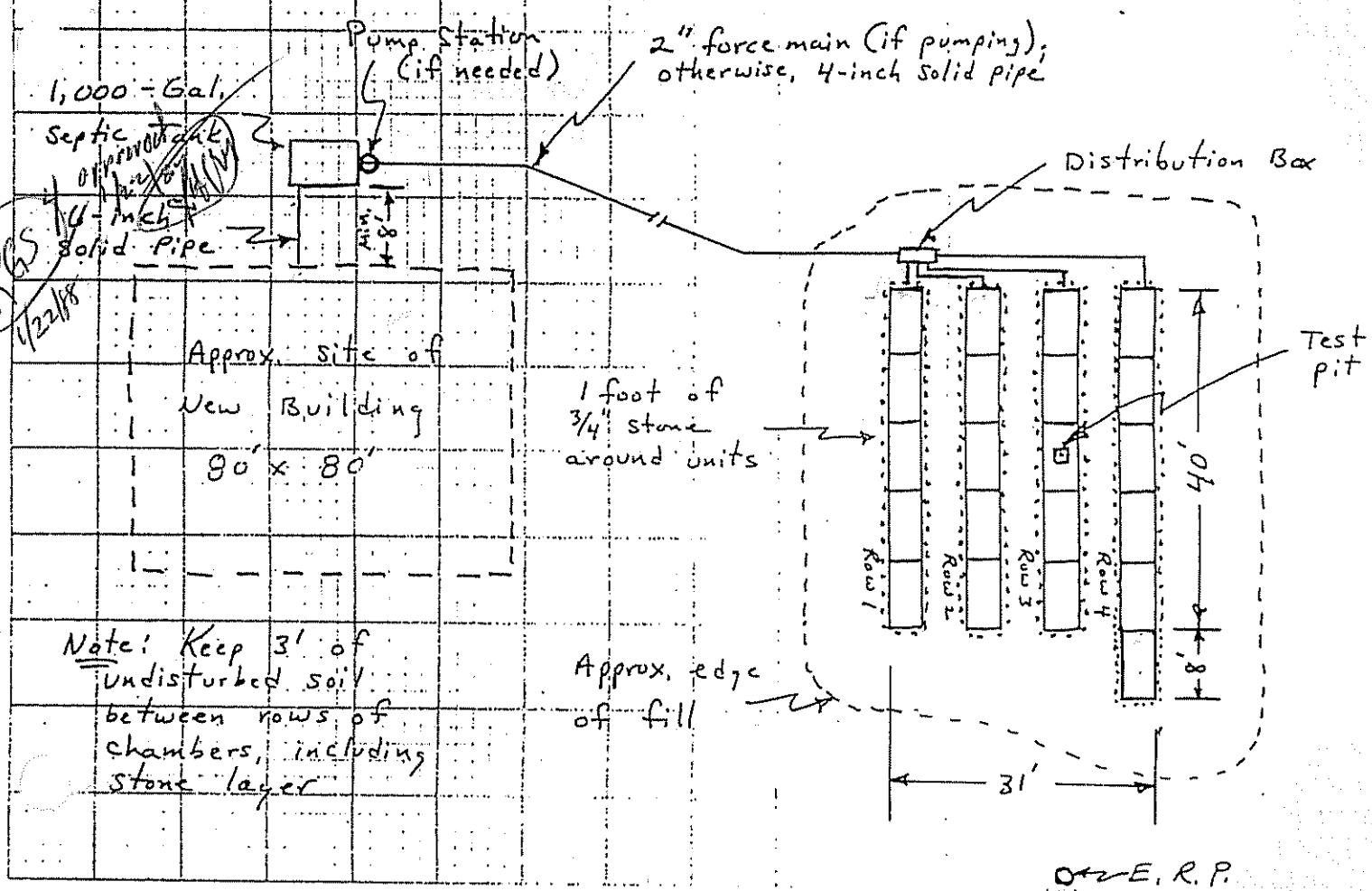
JBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation: Augusta
Street, Road, Subdivision: Church Hill Road
Owners Name: Wick Johnson

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.

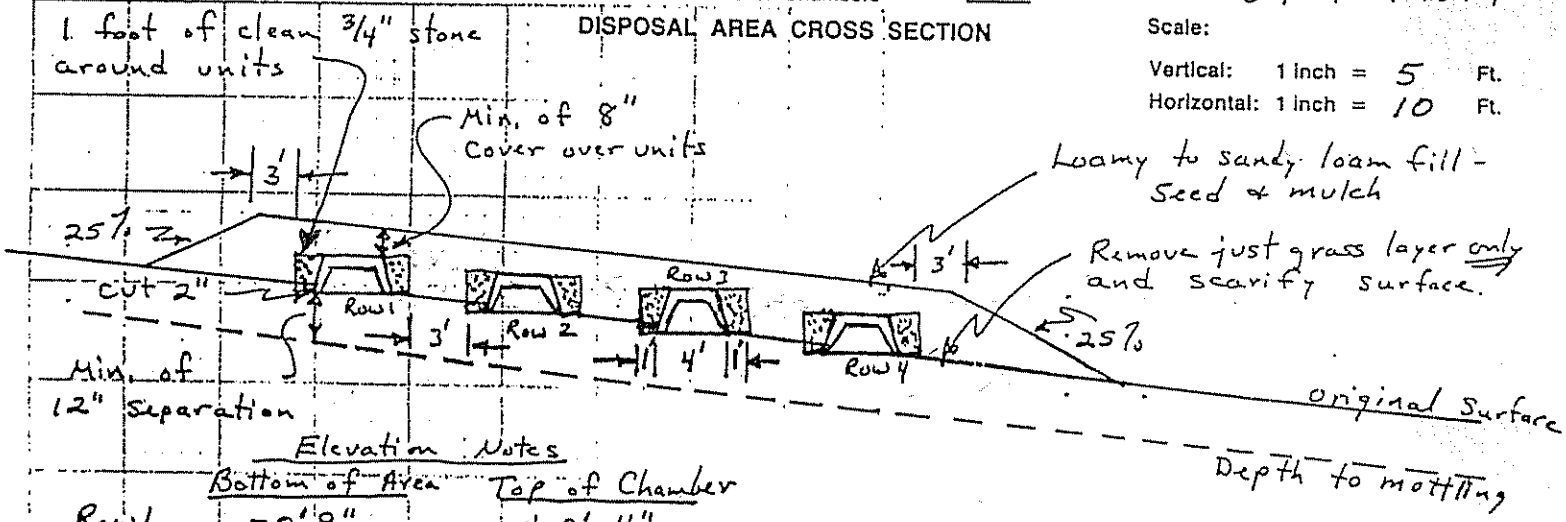


O-E. R. P.

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Depth of Fill (Upslope)	21"	Reference Elevation Is	0'00"	Nail in 12" white pine, located 59' from test pit
Depth of Fill (Downslope)	21"	Bottom of Disposal Area		
		Top of Distribution Lines or Chambers		

DISPOSAL AREA CROSS SECTION

Scale:
Vertical: 1 inch = 5 Ft.
Horizontal: 1 inch = 10 Ft.



Elevation Notes

	Bottom of Area	Top of Chamber
Row 1	-0' 9"	+0' 4"
Row 2	-1' 3"	-0' 2"
Row 3	-1' 8"	-0' 7"
Row 4	-2' 1"	-1' 0"

Kenneth G. Stratton
Site Evaluator Signature

157
SE#

11/4/87
Date

Revised 11/16/87 KGS

Division of Health Engineering

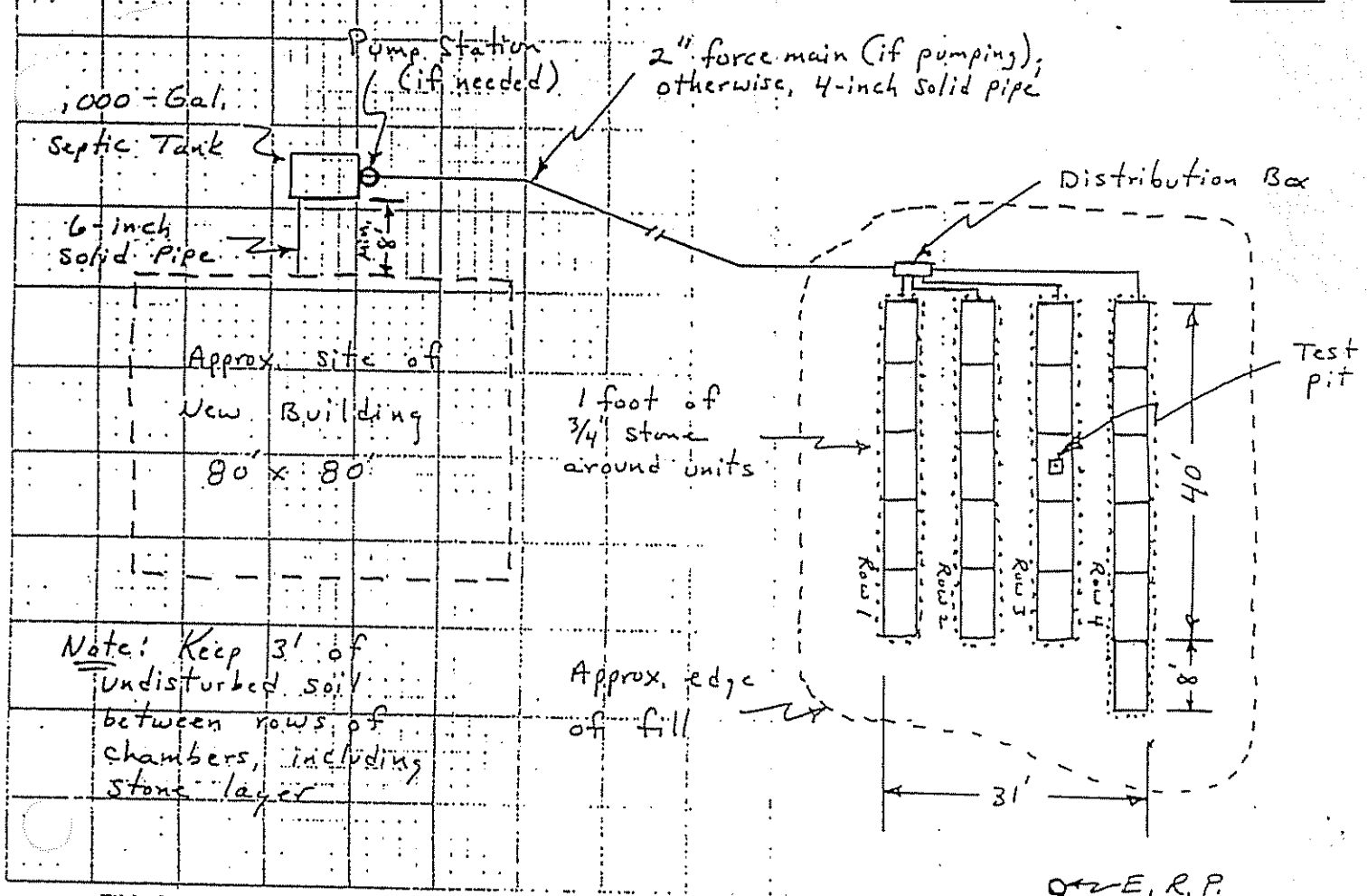
Town, City, Plantation: Augusta

Street, Road, Subdivision: Church Hill Road

Owners Name: Wick Johnson

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



FILL REQUIREMENTS

Depth of Fill (Upslope) 21"

Depth of Fill (Downslope) 21"

CONSTRUCTION ELEVATIONS

Reference Elevation is 0'00"

Bottom of Disposal Area ____

Top of Distribution Lines or Chambers ____

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

O-E.R.P.

Nail in 12" white pine, located 59' from test pit

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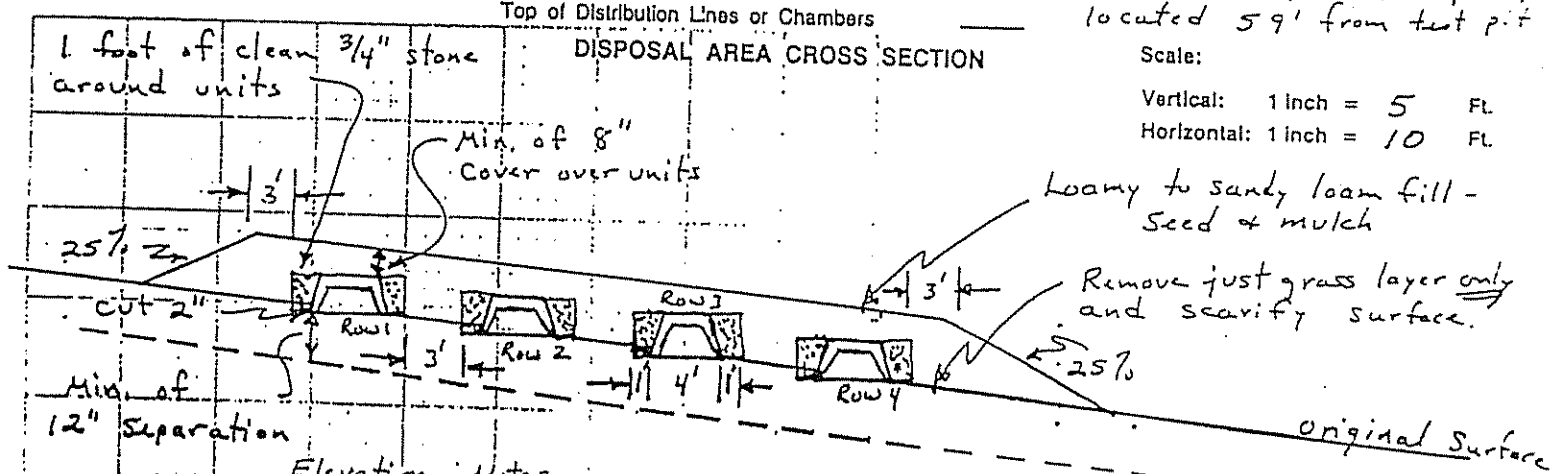

Elevation Notes

	Bottom of Area	Top of Chamber	Depth to mottling
Row 1			
Row 2			
Row 3			
Row 4			

See Attached Notes

Kenneth E. Stratton

Site Evaluator Signature

157

SE#

11/4/87

Date

Revised 11/16/87 KGS

RECEIVED MAR 18 1988

ATTACHMENT TO HHE-200

FOR

WICK JOHNSON, KENNEBEC TOOL & DIE
CHURCH HILL ROAD, AUGUSTA

Elevations of chambers as currently installed (elevations measured with a clinometer)

	Top of chamber
Row 1 (highest row)	-1' 3"
Row 2	-1' 6"
Row 3	-1' 8"
Row 4	-2' 1"

New elevations after system is raised:

	Bottom of System	Top of chamber
Row 1	-1' 10"	-0' 9"
Row 2	-2' 1"	-1' 0"
Row 3	-2' 3"	-1' 2"
Row 4	-2' 7"	-1' 6"

Kenneth G. Stratton
Site Evaluator #157
March 17, 1988

ATTACHMENT TO HHE-200

FOR

WICK JOHNSON, KENNEBEC TOOL & DIE
CHURCH HILL ROAD, AUGUSTA

Elevations of chambers as currently installed (elevations measured with a clinometer)

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	Bottom of System	Top of chamber
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Row 3	-2' 3"	-1' 2"
Row 4	-2' 7"	-1' 6"

Kenneth G. Stratton
Site Evaluator #157
March 17, 1988

City of Augusta, Maine

DEPARTMENT OF CITY SERVICES
Marc H. Guimont, P.E.
Director
(207) 626-2365

BUREAUS:

Code Enforcement	*(207) 626-2368*
Engineer	*(207) 626-2365*
Planning	*(207) 626-2366*
Public Works	*(207) 626-2435*

March 18, 1988

Mr. Kenneth G. Stratton
6 Highland Avenue
Winthrop, Maine 04364

Re: Kennebec Tool & Die
Septic System Design

Dear Ken:

This is to acknowledge receipt of a copy of your letter dated March 15, 1988, directed to Mr. Wick Johnson regarding the final resolution of the septic system design for their project on the Church Hill Road.

This letter will also confirm my conversation with you at our chance meeting at the Department of Health Engineering regarding the need of establishing specific elevations from a reference point in order for me to inspect the system.

Not mentioned in your letter is the minimum separation distance achieved by this revision. I will need this information to complete our records.

Sincerely,

Leroy H. MacCormack
Code Enforcement Officer

LHM/aml

Kenneth G. Stratton

6 Highland Ave., Box 375
Winthrop, Maine 04364
(207) 377-6068

RECEIVED
MAR 17 1988

March 15, 1988

Mr. Wick Johnson
P.O. Box 40
Weeks Mills, ME 04361

Re: Final Resolution of Septic System Design

Dear Mr. Johnson:

After further discussion with Mr. Russell Martin of the Division of Health Engineering, Department of Human Services, concerning the final resolution of the design of your septic system, I am able to recommend the following steps to you.

First, the system will be re-installed as originally designed in terms of configuration. The rows of chambers must be raised, and stone (clean, 3/4-inch) placed under the units. The rows must also be placed further apart from one another so that the five-foot separation is maintained between all rows. Row one of the chambers (the highest row) should be raised six (6) inches and kept in its present location. Row two should be raised six (6) inches and moved two feet further from row one, for a total separation of five (5) feet. Row three, raise six (6) inches and move five (5) feet from row two. Row four, move five (5) feet from row three; this row is now over previously undisturbed soil. Remove only the grass (or roto-till the grass into the soil below) and place row four on the new surface of the ground.

Next, you have agreed to keep the land area on all sides of the system (except the side toward your building) in its natural, undisturbed state to allow for absorption of effluent. And finally, should a problem develop in the future, an additional row of chambers will be added.

I believe these steps will adequately resolve the issue.

Sincerely,

Kenneth G. Stratton

Kenneth G. Stratton
Site Evaluator #157

cc: MacCormack
Martin

Kenneth G. Stratton
6 Highland Ave., Box 375
Winthrop, Maine 04364
(207) 377-6068

RECEIVED
FEB 0 9 1988

February 5, 1988

Mr. Wick Johnson
P.O. Box 40
Weeks Mills, ME 04361

Re: Results of inspection of septic system

Dear Mr. Johnson:

As you know, I made two inspections of the septic system as installed by C. M. Builders of Clinton. I am in agreement with Mr. MacCormack, the Plumbing Inspector, that the system was installed too low relative to the elevation reference point that had been established. In addition, insufficient spacing between the rows of chambers is also a problem. The effect of both errors, chambers too low and too close together, is that there is a loss of effective absorption area in the original soil.

By the measurements I took on the site, row one (the highest row) of the chambers is about six inches too low. Row two is also about six inches too low; row three, eight inches too low; and row four, two inches too low. Please note that these figures are not in complete agreement with the recommended elevations. The reason is that these figures represent a minimum separation between the bottom of the chambers and the highest level of mottling in the soil. My original elevations were calculated to provide an extra amount of separation and thus more original soil for absorption of septic wastes.

After discussion of this problem with staff of the Division of Health Engineering, I recommend that the existing chambers be raised by the amount specified above. In addition, an additional row of chambers be added to restore absorptive capacity by the soil. Clean, three-quarter inch stone would be used to elevate the chambers.

Should anyone have an additional solution to this problem, I would be happy to consider it. Whatever action is taken, a new set of forms must be prepared.

Sincerely,

Kenneth G. Stratton

Kenneth G. Stratton
Site Evaluator #157