SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

AUGUSTA 3820 TOWN COPY

Date Permit Issued: 11/12/97 $ 60 FEE ☐ If Double Fee Charged

Local Plumbing Inspector Signature: Gary R. Lube L.P.I. # 850

PROPERTY LOCATION

Town or Plantation	AUGUSTA
Street Subdivision Lot #	(OFF) HOSPITAL ST

PROPERTY OWNERS NAME

Last: TOBIAS First: BILL & Barbara

Mailing Address of Owner	BOX 1073 RED #6
	AUGUSTA ME 04330
Daytime Tel. #	HOME 623-1015 WORK-622-3774

Municipal Tax Map # 13 Page # 8A

Owner Statement

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Barbara H Tobias — Signature of Owner/Applicant — Date 10-12-97

Caution: Inspection Required

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

Local Plumbing Inspector Signature — 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
2.3 AC

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
PROPOSED DRILLED WELL

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

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

SIZE 1000.— Gallons

DISPOSAL AREA TYPE/SIZE
1. ☐ Stone Bed _____ Sq. Ft.
2. ☒ Proprietary Device 800. Sq. Ft.
   ☐ Clustered ☐ Linear
   ☐ Regular ☐ H-20
3. ☐ Trench _____ Lin. 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)
(4) BEDROOM = 360 + 30 = 390 G.P.D.
(390)(4.1) = 1599 ÷ 50 = 31.98 – (32) INFILTRATORS

DESIGN FLOW: 390.— (Gallons/Day)

PROFILE & DESIGN CLASS

PROFILE	DESIGN
8	C

DEPTH TO MOST LIMITING FACTOR 17"

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 50 To 75 Gallons

SITE EVALUATOR'S STATEMENT

On 10 / 12 / 97 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

Stephen C Smith — Site Evaluator Signature
#253 — SE #
10-12-97 — Date
STEPHEN C. SMITH — Print Name
(207) 549-7972 — Telephone

WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

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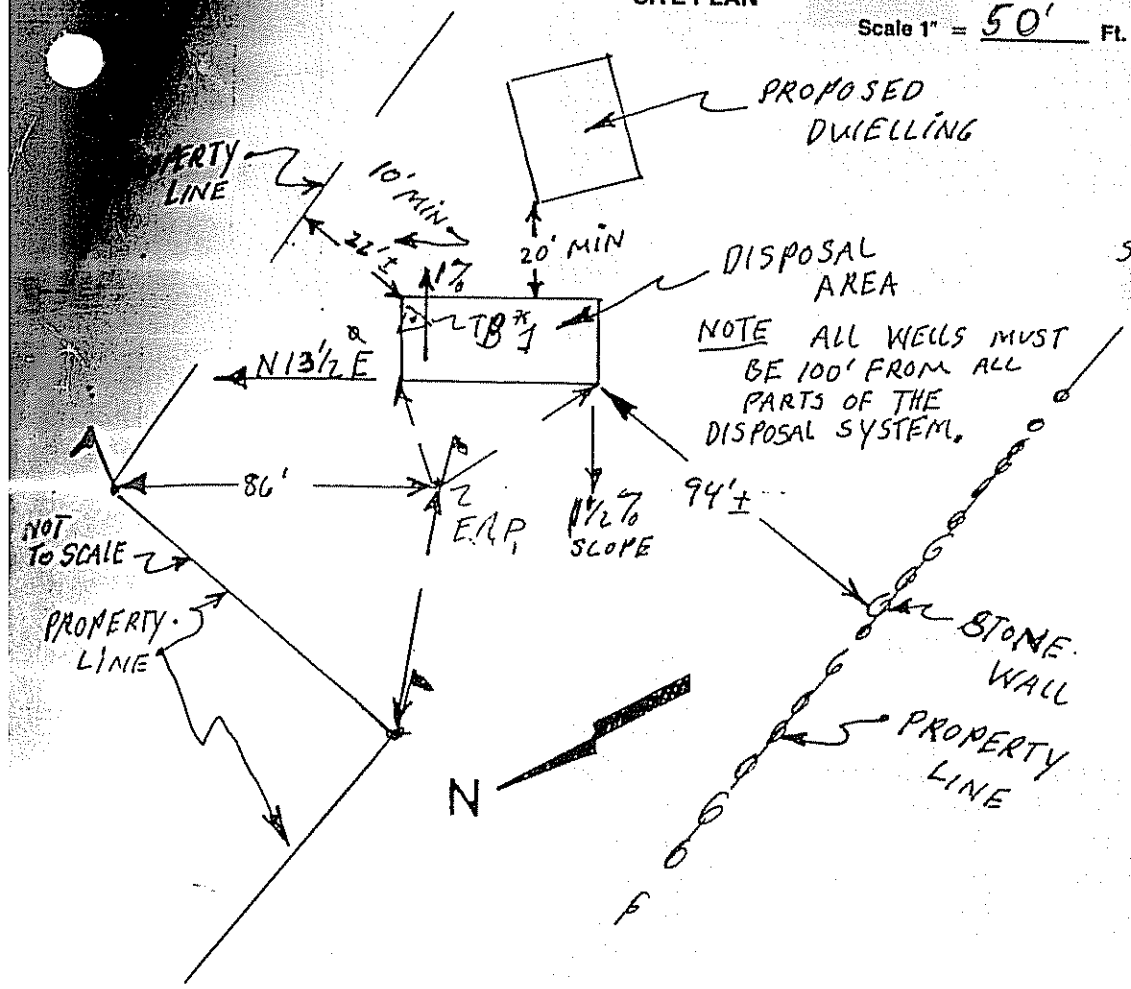
Street, Road, Subdivision: AUGUSTA (OFF) HOSPITAL ST

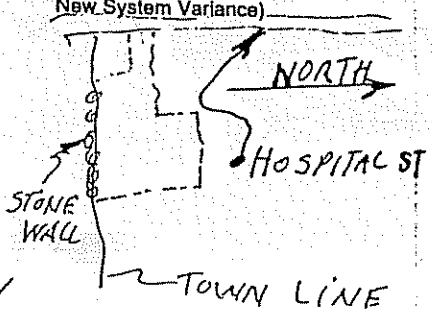
Owners Name: BILL & BARBARA TOBIAS

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 TB#1 ☐ Test Pit ☒ Boring

_____" Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–6	LOAMY SAND	FRIABLE	DARK BROWN	
6–15				
15–20	FINE SAND		OLIVE TO GRAY	COMMON DISTINCT
20–30	SILT LOAM TO CLAY	FIRM	GRAY	
30–40				
40–50				

Soil Profile	Classification Condition	Slope	Limiting Factor	
8	C	1 TO 2½%	17"	☒ 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
0–6				
6–15				
15–20				
20–30				
30–40				
40–50				

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

Stephen C. Smith
Site Evaluator Signature

#253
SE#

10-12-97
Date

HHE-200 Rev.1/84

Department of Human Services
Division of Health Engineering

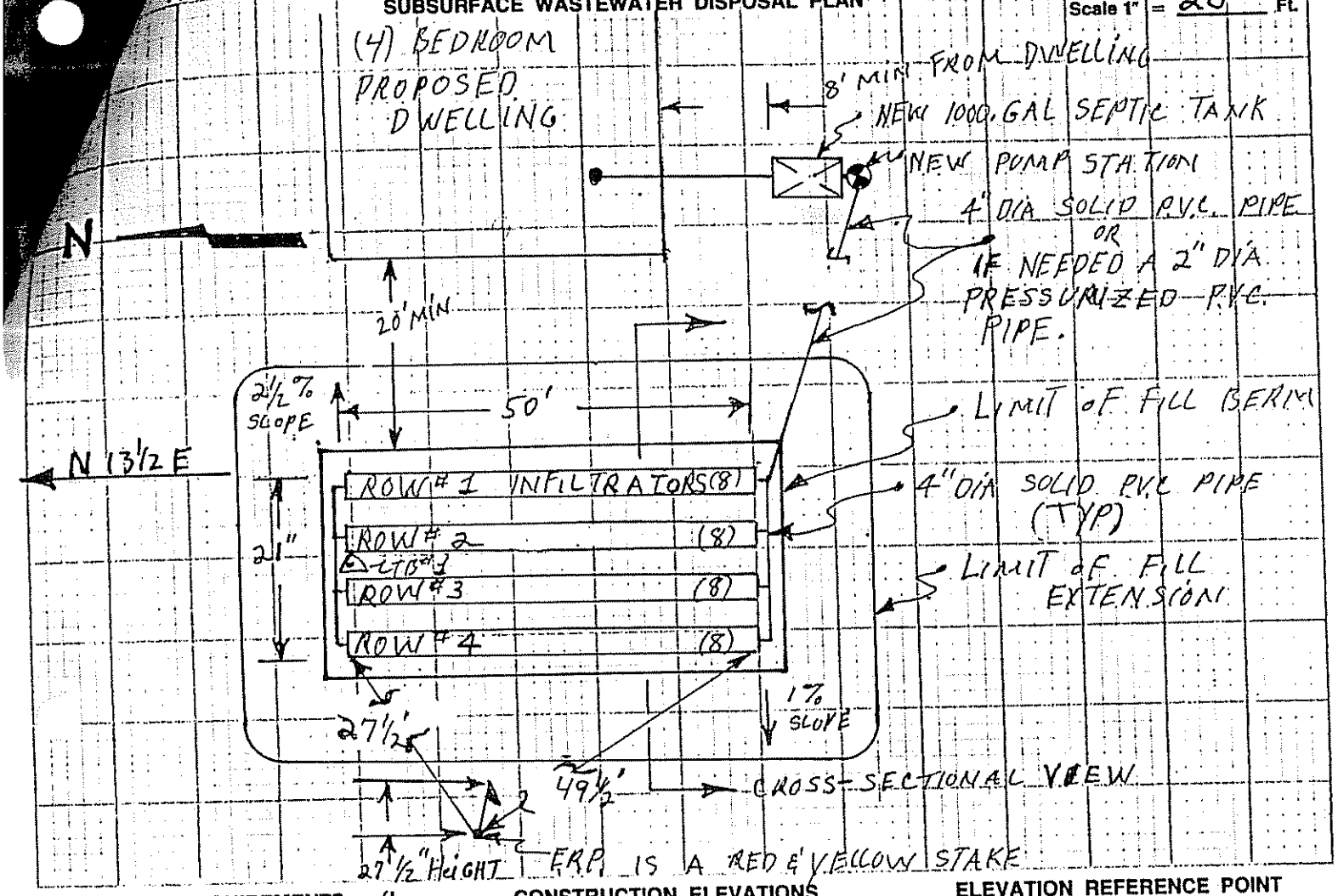
SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Street, Road, Subdivision: AUGUSTA (OFF) HOSPITAL ST

Owners Name: BILL & BARBARA TOBIAS

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.



FILL REQUIREMENTS

Depth of Fill (Upslope) 30" ±

Depth of Fill (Downslope) 30" ±

CONSTRUCTION ELEVATIONS

Reference Elevation is -0-

Bottom of Disposal Area ROWS #1,2,3,4 = -5"

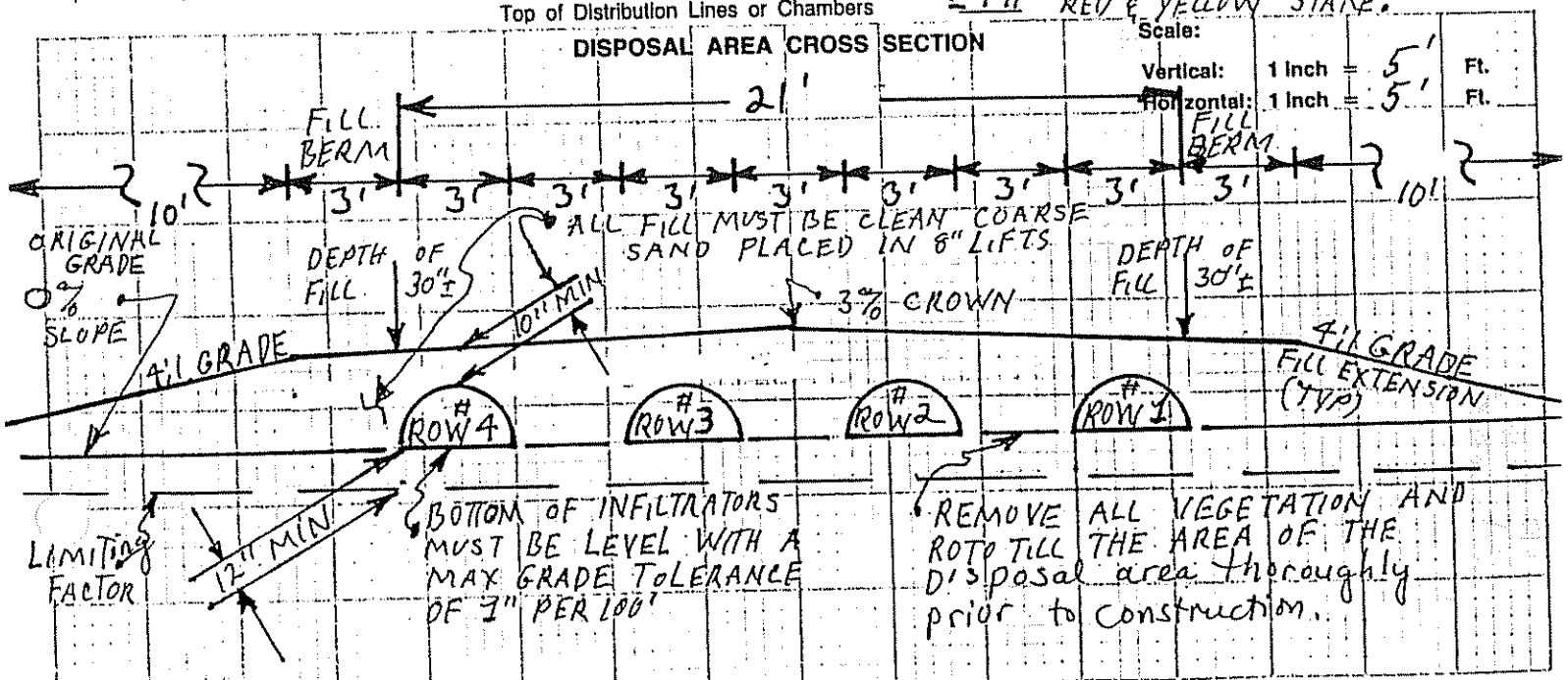
Top of Distribution Lines or Chambers = +11"

ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

THE ERP IS THE TOP OF THE RED & YELLOW STAKE.

DISPOSAL AREA CROSS SECTION

Scale:
Vertical: 1 Inch = 5' Ft.
Horizontal: 1 Inch = 5' Ft.



Stephen C. Smith — Installer Signature

#253 — SE#

10-12-97 — Date

HHE-200 Rev 1/94

OWNER'S/APPLICANT'S RESPONSIBILITIES

If this application is being processed by an applicant other than the property owner, then it is the responsibility of said applicant to have fully informed the owner of the following responsibilities prior to the processing of this application.

The Owner, or his/her assigned representative, has supplied information regarding well locations, property lines, local zoning, lot size, and facility size and type with which this design has been based. The Owner agrees that any omissions or inaccuracies of this information (or changes to that information subsequent to the site evaluation) nullifies this design. Any loss, damage, liability or costs that arise due to omissions or inaccuracies shall be borne exclusively by the Owner. The applicant and/or the Owner has reviewed the site plan (page 2) herein and guarantees that all wells within 125 ft. of the proposed system are as depicted. Property lines which are not shown on the plan are at least 50 ft. from the proposed leaching area.

This design is based on current Maine State Plumbing Code requirements only. The owner/applicant is responsible to inform the evaluator if more stringent regulations exist for this particular site which would nullify this design. The owner assumes all liabilities which may result from a failure to supply such pertinent information to the site evaluator.

The Owner is also responsible for obtaining any and all permits which are required to perform this work.

CONTRACTOR'S RESPONSIBILITIES

It is the responsibility of the Contractor to be completely knowledgeable with all aspects of the Maine State Subsurface Wastewater Disposal Rules regarding septic system construction materials and methods. Any loss, damage, liability, or cost for corrective work which arises from any substitution or departure from said requirements, or the design presented herein, shall be borne exclusively by the contractor. If the contractor elects to depart from the said rules, he does so at his own risk and takes full responsibility for any corrective measures necessary if the system should fail to operate properly or other liabilities that might arise.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
CONSTRUCTION NOTES

Attachment to Form HHE-200

The items checked should be incorporated into the construction plans for the subsurface wastewater disposal system. Items listed as "Required Action" are deemed necessary for proper system installation; items listed as "Recommended Action" are not essential, but will aid in the efficient functioning and life of the system.

All construction shall conform with "State of Maine Subsurface Wastewater Disposal Rules, Chapter 241" as adopted and revised according to the provisions of 22MRSA§42.

The applicability of this design must be reevaluated when the location of structures are substantially different than those shown on the site plan or when other structures, additions, or appurtenances (i.e., swimming pools) are considered.

Lots not meeting the requirements of the "Minimum Lot Size Rule" but recorded prior to its effective date require a "Minimum Lot Size Waiver" as issued by the Department of Human Services, Division of Health Engineering.

ACTIONS

(All items Nos. 1 - 19 are required unless otherwise designated)

1. The L.P.I. 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.

2. Any well shall be located a minimum of 100' from the subsurface disposal system which includes the septic tank.

3. Property lines shown are as provided by the owner or agent and no guarantee of accuracy is implied. Actual property line locations must be confirmed by survey.

4. All fill material shall be medium to coarse sandy loam or loamy sand in texture, free of stones, wood or other debris, and with sufficient fines for adequate compaction. All fill placed in 8 inch lifts and compacted as placed.

5. Seed and mulch the surface of all fill and cover material, as well as other areas of disturbed soil, to prevent erosion.

6. Cut all vegetative growth down to ground level, rake away organic material, and rototill the area of the disposal system, including fill extensions, thoroughly prior to construction.

7. Fill slopes must be 4:1, or 25°.

8. A minimum of 8' of separation must be maintained between the septic tank and the home.

9. Force mains, pump stations, septic tank, and/or gravity lines subject to freezing shall be adequately insulated.

10. All construction shall conform with Section 11-U "State of Maine--Subsurface Wastewater Disposal Rules--Chapter 241" and all other pertinent sections.

11. Systems put into service prior to establishing proper cover shall be provided with adequate erosion control to prevent damage to the system.

12. Provide low profile septic tank when determined as necessary in the field.

13. The bottom of the disposal area and distribution line shall be level with a maximum grade tolerance of 1 inch per 100 feet.

14. Under no circumstances should septic tank additives of any type be used on your system. If additives are used, severe and permanent and irreversible damage may result.

15. A minimum of 11" of fill or cover material must be placed over the chamber units.

16. A minimum of 12" of separation must be maintained between the bottom of the disposal system and the limiting factor in the soil.

17. A diversion ditch, of sufficient depth to prevent surface runoff from entering or passing over the disposal system, shall be constructed on the uphill side of the disposal area.

Required [ ] Recommended [X] Not Required [ ]

18. Low volume toilets of 1- to 1½-gallon flushing capacity are

Required [ ] Recommended [X] Not Required [ ]

19. Septic tank to be tested for water tightness in presence of L.P.I.

Required [ ]

[signature] 753 5-24-97

Bed Disposal Area (continued)

4. A minimum of 12 inches of stone as specified in Section 11.D.4 shall be used on the bottom of the bed disposal area. The distribution system shall be installed totally within the stone.

5. The stone shall be completely covered with one of the following materials:

a. A minimum 2 inch layer of compressed hay.
b. One layer of an approved non-woven filter fabric.
c. One inch of fiberglass insulation.

6. Clean backfill, 8-12 inches in depth, shall be carefully placed over the hay layer or approved substitute.

7. No portion of any bed disposal area shall be located under a paved area or any driveway or roadway.

[X] Infiltrator Chamber Units.....No. of Units Required (32)

1. When pumping to an infiltrator system with serial distribution, pump into the end of the uphill row, using a 90 degree elbow or a tee to direct the flow to the splash plate.

2. Only those chambers listed in Appendix D or having the Department's written approval shall be installed.

3. Only H-20 rated chambers shall be installed under driveways or parking areas.

4. Chambers shall be vented per manufacturer's specifications.

5. Allowance for use of sidewall shall be as specified in Appendix D of N.S.P.C.

6. Chamber units are designed for serial distribution. Required [ ]

[ ] Concrete Chamber Units.....No. of Units Required _____

1. Only those chambers listed in Appendix C or having the Department's written approval shall be installed.

2. Only H-20 rated chambers shall be installed under driveways or parking areas.

3. Chambers shall be vented per manufacturer's specifications.

4. Allowance for use of sidewall shall be as specified in Appendix D of N.S.P.C.

5. Chamber units are designed for serial distribution. Required [ ]

[ ] Peat Disposal Area

1. The distribution system shall consist of 4 inch diameter perforated pipe meeting the material standards listed in N.S.P.C. in Table D-1.

2. The distribution lines shall be installed a maximum of 2.5 feet from the disposal area edge, equally spaced with a maximum separation distance between lines of 2.5 feet, and installed in a discontinuous eight inch layer of stone as specified in Section 11.D.4.

3. A minimum of 6 inches of clean coarse sand or stone as specified in Section 11.D.4 shall be placed at the bottom of the disposal area.

4. The peat shall be air-dried milled Sphagnum of low to moderate decomposition (H2-H5 on the von Post scale) with a moisture content of 40 to 60 percent.

5. The peat shall be placed in 6 to 10 inch layers and hand raked. The in place bulk density shall be 6.2 to 9.4 pounds/cubic foot.

6. There shall be a minimum of 24 inches of peat below the bottom of the distribution lines and a minimum of 8 inches of peat above the top of the distribution lines.

7. The surface of the distribution area shall be crowned at a slope of 3 percent and seeded with grass.