call 12 3/27 1250 left message

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-6672 FAX (207) 287-4172

PROPERTY LOCATION

>> Caution: Permit Required – Attach In Space Below <<

City, Town or Plantation	AUGUSTA
Street or Road	769 EASTERN AVE
Subdivision, Lot #	

AUGUSTA 5044 TOWN CODE

Date Permit Issued: 3/27/03 $ 120.00 ☐ If Double Fee Charged FEE

Local Plumbing Inspector Signature L.P.I. # 1850

OWNER/APPLICANT INFORMATION

Name (last, first, MI) HERARD, SUSAN (Owner / Applicant)

Mailing Address of ☐ Owner ☐ Applicant: 769 EASTERN AVE, AUGUSTA ME 04330

Daytime Tel. # 622-4048

OWNER/CONTRACTOR COPY

Municipal Tax Map # 14 Lot # 3

Owner or Applicant 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.

Signature of Owner or Applicant — Date 3/12/03

Caution: Inspections 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 — (1st) Date Approved 5/8/03 — (2nd) Date Approved 5/7/03

PERMIT INFORMATION

TYPE OF APPLICATION
1. ☒ ~~First Time System~~
2. ☒ Replacement System
Type Replaced: ____
Year Installed: ____
3. ☐ Expanded System
   a. ☐ One-time exempted
   b. ☐ Non-exempted
4. ☐ Experimental System
5. ☐ Seasonal Conversion

THIS APPLICATION REQUIRES
1. ☒ ~~No Rule Variance~~
2. ☐ First Time System Variance
   a. ☐ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
3. Replacement System Variance
   a. ☒ Local Plumbing Inspector Approval
   b. ☐ State & Local Plumbing Inspector Approval
4. ☐ Minimum Lot Size Variance
5. ☐ Seasonal Conversion Approval

DISPOSAL SYSTEM COMPONENT(S)
1. ☒ Complete Non-engineered System
2. ☐ Primitive System (graywater & alt toilet)
3. ☐ Alternative Toilet, specify: ____
4. ☐ Non-Engineered Treatment Tank (only)
5. ☐ Holding Tank, ____ gallons
6. ☐ Non-engineered Disposal Field (only)
7. ☐ Separated Laundry System
8. ☐ Complete Engineered System (2000 gpd or more)
9. ☐ Engineered Treatment Tank (only)
10. ☐ Engineered Disposal Field (only)
11. ☐ Pre-treatment, specify:
12. ☐ Miscellaneous components

SIZE OF PROPERTY
30,000 + S.F. ☒ sq. ft. ☐ acres

SHORELAND ZONING
☐ Yes ☐ No

DISPOSAL SYSTEM TO SERVE
1. ☒ Single Family Dwelling Unit, No. of Bedrooms: 3
2. ☐ Multiple Family Dwelling, No. of Units: ____
3. ☐ Other: ____ SPECIFY

TYPE OF WATER SUPPLY
1. ☐ Drilled Well 2. ☐ Dug Well 3. ☐ Private
4. ☒ Public 5. ☐ Other:

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. ☒ Concrete WITH LABEL
   a. ☐ Regular A-1800
   b. ☐ Low Profile FILTER
2. ☐ Plastic OR EQUAL
2. ☐ Other: ____
CAPACITY 1000 gallons

DISPOSAL FIELD TYPE & SIZE
1. ☐ Stone Bed 2. ☐ Stone Trench
3. ☒ Proprietary Device
   a. ☐ Cluster array c. ☐ Linear
   b. ☐ Regular load d. ☐ H-20 load
4. ☒ Other: ELJEN INDRAINS
SIZE 528 ☐ sq. ft. ☐ lin. ft.
36 UNITS ELJEN INDRAINS

GARBAGE DISPOSAL UNIT
1. ☒ No 3. ☐ Maybe
2. ☐ Yes >> Specify one below:
   a. ☐ Multi-compartment Tank
   b. ☐ Tanks in Series
   c. ☐ Increase in Tank Capacity
   c. ☐ Filter on Tank Outlet

DESIGN FLOW
270 gallons per day
BASED ON:
1. ☒ Table 501.1 (dwelling unit(s)
2. ☐ Table 501.2 (other facilities)
SHOW CALCULATIONS
– for other facilities –
36 UNITS
3 ROWS OF 12
11' X 48'
3. ☐ Section 503.0 (meter readings)
ATTACH WATER-METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION DESIGN
9 D 13
at Observation Hole #: TP-1
Depth 12" Elevation ____
OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD SIZING
1. ☐ Small – 2.0 sq. ft./gpd
2. ☐ Medium – 2.6 sq. ft./gpd
3. ☐ Medium-Large – 3.3 sq. ft./gpd
4. ☐ Large – 4.1 sq. ft./gpd
5. ☒ Extra Large – 5.0 sq. ft./gpd

PUMPING
1. ☐ Not Required
2. ☒ May Be Required
3. ☐ Required >> Specify only for engineered or experimental systems
DOSE: gallons

SITE EVALUATOR STATEMENT

I Certify that on 7-13-02 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

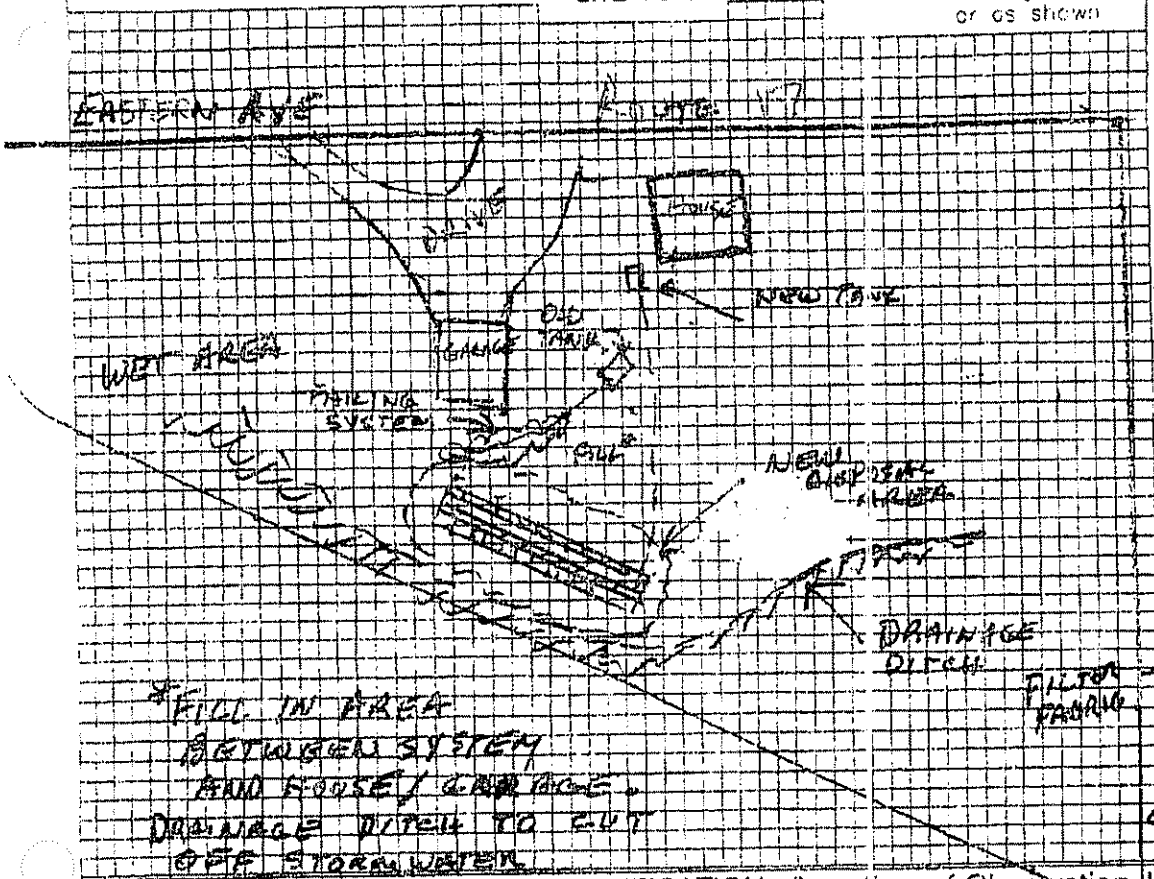
David L Studer — Site Evaluator Signature
DAVID L STUDER — Site Evaluator Name Printed
275 — SE #
845-2352 — Telephone #
7-19-02 — Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

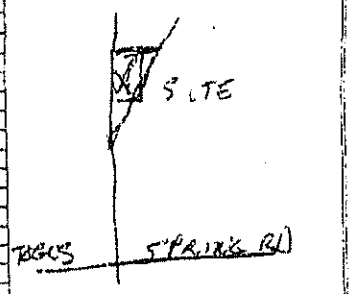
Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation: AUGUSTA
Street, Road Subdivision: 769 EASTERN AVE
SUSAN HERARD

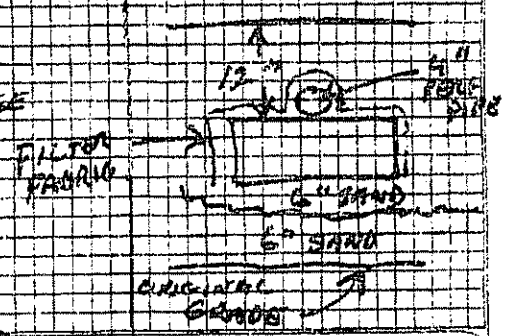
SITE PLAN
Scale 1" = 50 Ft. or as shown



SITE LOCATION PLAN
(Map from Maine Atlas recommended)



DETAIL NOT TO SCALE



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

Observation Hole TP-1 ☒ Test Pit ☐ Boring
0-1/2" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	LOAM		DK BN	
10–30	SILT LOAM	FIRM	GRAY BN	COMMON DISTINCT
30	LIMIT OF INVESTIGATION			

Soil Classification (Profile / Condition)	Slope	Limiting Factor	
9 D	2-5%	12"	☒ Ground Water ☒ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole ____ ☐ Test Pit ☐ Boring
____" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–50	PLUMBING MAY NEED TO BE AJUSTED IN HOUSE (RAISED WHERE IT COMES THRU BASEMENT WALL TO GET GRAVITY FEED			

HOUSE TO TANK = 1/4" PER FOOT AND TANK TO INDRAINS = 1/8" PER FOOT OR MORE.

Soil Classification (Profile / Condition)	Slope	Limiting Factor	
			☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

David Study — Site Evaluator Signature
275 — SE #
7-19-02 — Date

NEW TANK H 6 3 CORNER OF HOUSE

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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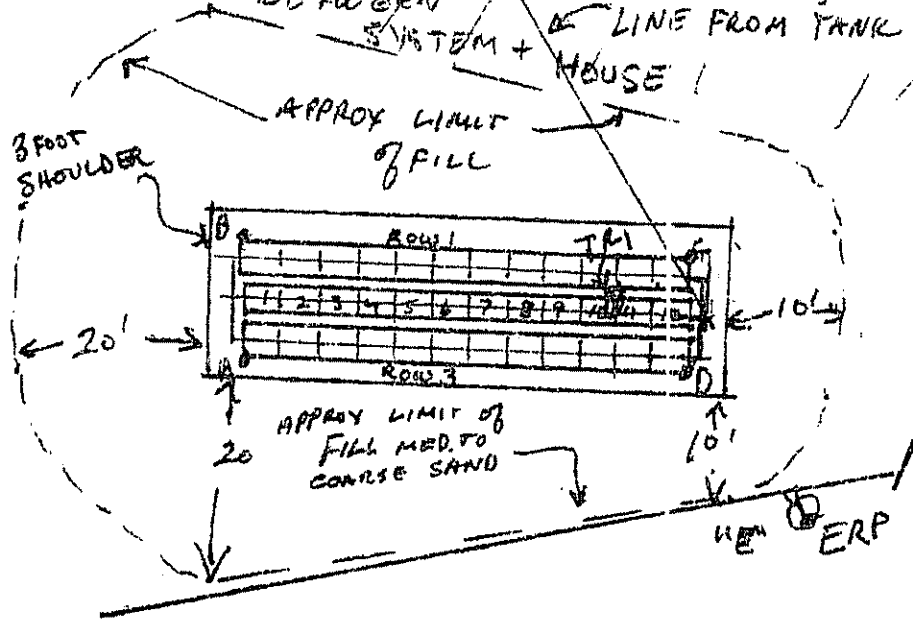
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
AUGUSTA	769 EASTERN AVE	SUSAN HERARD

GARAGE G1

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



ED = 21'
EC = 31.5'
H,C = 52.5'
H,D = 63.5'
G,B = 31'
G,A = 42'

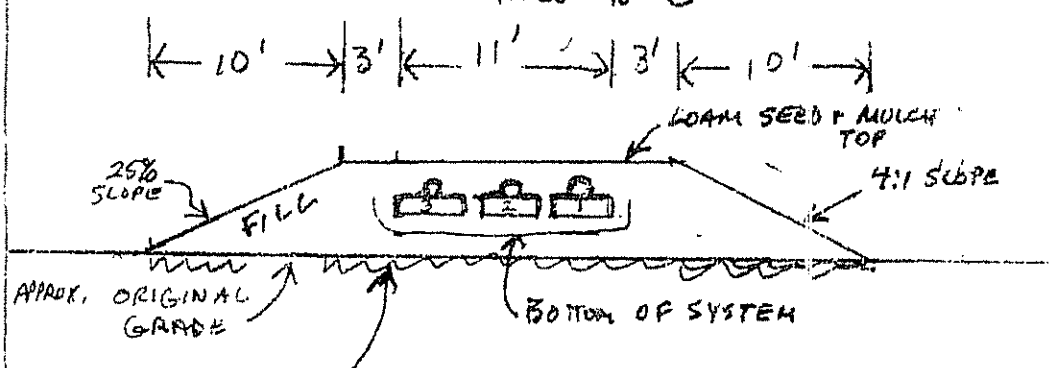
3 ROWS OF 12 INDRAINS
1 FOOT BETWEEN ROWS
FOLLOW MFG. INSTRUCTIONS
SEE DETAIL ON PAGE 2.

ORIGINAL ELEVATIONS
A = 62"
B = -64"
C+D = -45"

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	30"	Finished Grade Elevation	12" OVER INDRAINS	Location & Description	NAIL IN TREE 45" ABOVE "C"
Depth of Fill (Downslope)	47-49"	Top of Distribution Pipe or Proprietary Device	-26"	Reference Elevation	
		Bottom of Disposal Area	-39"		

DISPOSAL AREA CROSS SECTION THRU D-C

SCALE:
VERTICAL: 1" = 5
HORIZONTAL: 1" = 10



AT "C" AND D"
ORIGINAL GRADE = -45"
TOP OF INDRAIN = -26"
BOTTOM OF INDRAIN = -33"
BOTTOM OF 6" OF SAND = -39"

TRANSITION ZONE
MIX 6" OF COARSE SAND INTO 6" OF ORIGINAL SOIL

3 ROWS OF INDRAINS
SEE DETAIL ON PAGE 2
1 FOOT BETWEEN ROWS

FILL IS COARSE SHARP SAND; 1" MINUS & NO MORE THAN 5% FINES

David Stubbs — Site Evaluator Signature
275 — SE #
7-19-02 — Date

HHE-200 Rev. 7/97

Replacement System Variance Request 169 EASTERN AVE

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED	
SOILS 9D								
Soil Profile	Ground Water Table			to 7"				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	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 [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]		
Owner's wells	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [b]	200 down to 120 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]		
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 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 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		5'
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
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. Fill extension Grade - to 3:1 ON DOWN SLOPES WHERE NECESSARY

2.

3.

Footnotes: a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
b. May not be any closer to neighbor's well than the existing disposal field or septic tank unless written permission is granted by the neighbor.
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.

David L Studier 7-19-02

SITE EVALUATOR'S SIGNATURE 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

Page 2, HHE-204 Rev 6/00

ADDENDUM TO HHE-200 AND ADDITIONAL INFORMATION ABOUT YOUR SEPTIC SYSTEM

1. You should have your septic system tank pumped out and checked every two years to prolong the life of the system.

2. Water softeners should drain to a separate gray water disposal system.

3. Your septic system must be installed level and all joints, etc. must be water tight. This applies to the pump tank if your system requires pumping. Distribution boxes shall have Equalizers installed on the outlets.

4. Low volume toilets and water conservation measures are recommended, even if your design does not require them.

5. All construction shall conform to the State of Maine Subsurface Waste Disposal Rules chapter 241.

6. All fill shall be loamy medium sharp sand or coarser, with sufficient fines for compaction. Fill shall be place in 8 inch lifts. Top 4 inches of cover shall be loam or sandy loam, to assure a good catch of grass.

7. All wells shall be at least 100 feet from the leaching field unless a variance is granted.

8. Property lines are as provided by the owner and no accuracy is implied. Actual lines must be confirmed by a survey.

9. All Residential installations of new tanks shall have a Zabel Model A1800 filter or equal installed, unless pumping. Provide a low profile septic tank when determined to be ecessary in the field.

10. Force mains, pump stations, and/or gravity piping subject to freezing shall be adequately insulated.

11. Systems shall be provided with adequate erosion control until adequate vegetated cover is established.

12. The design flow of the system should not be exceeded in any day.

13. Remove all vegetation and organic material under the leach field and fill extensions. Caution avoid compaction of original soil under the bed and fill extentions during construction.

14. The LPI shall inform the owner and designer of any local ordinances or requirements exceeding the Rules, prior to issuing a permit, so that the application may be properly amended.

Eljen Corporation
15 Westwood Rd., Storrs, CT., 06268
860-429-9486 • 800-444-1359
Fax 860-487-1124

Patent nos. 4,465,594 and 4,880,333
Additional Patents Pending

Distributed By:

CONSTRUCTION CONSULTANTS, INC.
328 FEDERAL ROAD
LIVERMORE, ME 04253
1-800-897-4072

CALL FOR INSTALLATION ASSISTANCE

LIMITED WARRANTY

1. Each In-Drain™ unit is warranted to the original purchaser against defects in materials and workmanship for one year from the date of manufacture when installed in accordance with manufacturer's instructions. Eljen Corp. must be notified within fifteen(15) days of the appearance of any defect during this period. Eljen Corp. will supply a replacement unit. Eljen Corp.'s liability specifically excludes the cost of removal and/or installation of the units.
2. The warranty does not extend to incidental, consequential, special or indirect damage. Specifically excluded from warranty coverage are: damage due to ordinary wear and tear, alteration, abuse or misuse, subjection to stresses or effluent loading greater than those prescribed in the design and installation instructions; the placement of improper materials by buyer into buyer's system, any event not caused by or under the control of Eljen Corp. In no event will Eljen Corp. be responsible for loss or damage to the buyer, the units, or any 3rd party resulting from its installation or shipment.
3. Buyer shall be solely responsible for insuring that installation of the system is completed in accordance with all applicable laws, codes, rules and regulations.
4. No warranties or representations at any time made by any representative of Eljen Corp. shall vary or expand the provisions hereof. No warranty applies to any party other than the original purchaser.

EXTENDED WARRANTY

Eljen offers a 10 year warranty for 1 [redacted] family residential In-Drain systems. *Conditions of system design, installation and maintenance apply. Please refer to* detailed warranty available from Eljen or an authorized representative.

Eljen™ Products for a cleaner, healthier environment

ELJEN™ IN-DRAIN™ LEACHING SYSTEM

Trench and In-Ground Cluster Installation

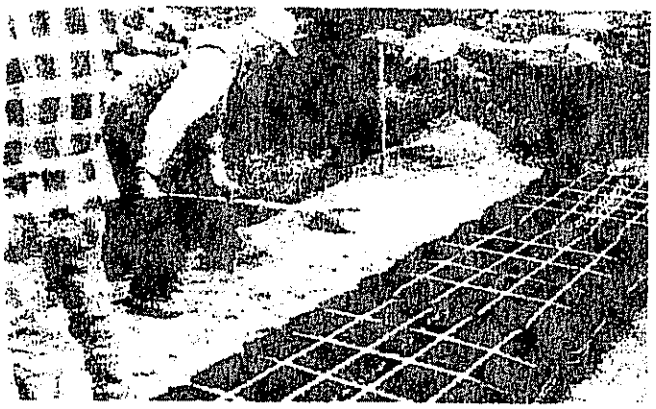
1. Prepare site according to local and state regulations. **Do not install system on frozen or saturated ground.**

2. Remove all organic soil and roots at disposal and fill extension areas.

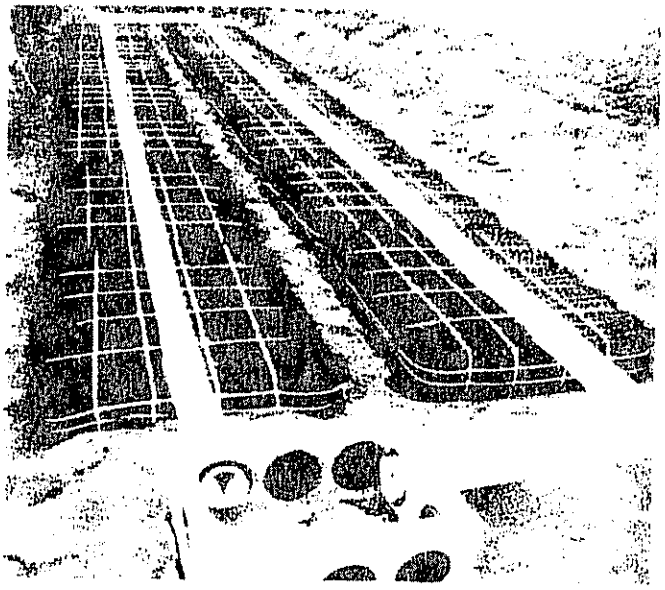
3. Scarify receiving layer to eliminate smearing.

4. Place 6" of D.O.T. or state highway specification **washed concrete sand** or sand known to be "medium to coarse with an effective size of .25 to 2.0 mm and no more than 5% passing a #200 sieve."

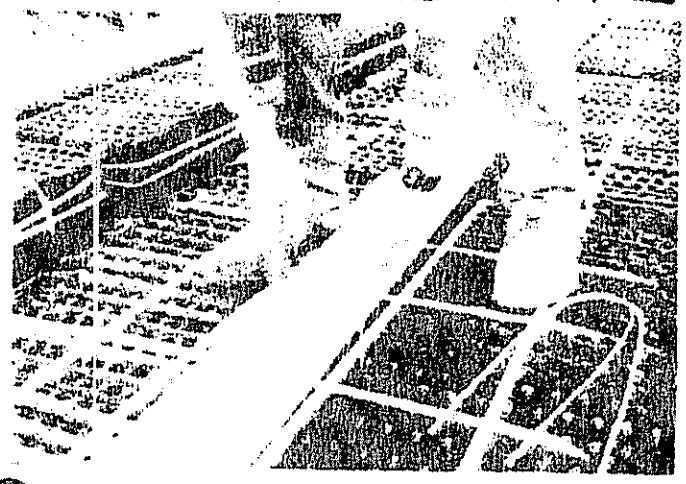
5. Avoiding footprints, place In-Drains with **painted stripe facing up**, end to end on sand in trench or bed. **Caution: Spacer cores can have sharp edges.**



6. Center 4" **perforated** distribution pipe over In-Drains. Use **solid pipe** over compacted sand from D-Box to In-Drains and to connect distribution lines at far end. Connect mid-points on rows over 40' long.



7. [illegible]



8. Secure pipe with one Eljen clamp per In-Drain. Slide clamp into upfacing core. Force through fabric into sand.

9. Install Eljen cover fabric over rows of In-Drains. **Drape fabric straight down over pipe.** Secure with hand shoveled sand. **Don't block holes in perforated pipe.**

10. Place 12" medium to coarse sand (see step #4) between rows and 6" min. at the sides in trench or bed.

11. Complete backfill and loam to 12" min. over In-Drains. Fill should be clean, porous and devoid of large rocks. Use well graded sandy fill with a maximum 10% passing a #200 seive. **Do not use wheeled equipment over system.** A light track machine may be used with caution, **avoiding crushing or shifting of pipe assembly.** Backfill in direction of perforated pipe.

12. Divert surface runoff. Finish grade to prevent surface ponding. Seed loam and protect from erosion.