LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

3140 "N" STREET
Lincoln, NE 68510-1514
(402) 441-8000

NON TRANSFERABLE

PERMIT

Permit

SEWAGE INSTALLATION
SEWER PIPE & TANK ONLY

No. 98380184401

Issued 09/15/98
Expires 03/15/99
Revenue Code 3157

FEES: $150.00

PAID

TOTAL $150.00

Establishment

MIKE & PAMELA EDWARDS
T10N R7E SEC 25
LOT 7I.T.
10501 O STREET

Permittee

MIKE & PAMELA EDWARDS
10501 O ST
LINCOLN NE 68520-9407

Issued By Health Director
Lincoln-Lancaster County Health Department

008132

THIS LICENSE OR PERMIT IS ISSUED SUBJECT TO REVOCATION AS PROVIDED BY LAW "POST IN A PROMINENT PLACE"

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

A

Permit Number: 9838 01844

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☐ Septic System ☐ Lagoon ☒ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

CR 3605

Address 10501 East O Street (no rural route) City Lincoln NE, Zip 68520 ~~68506~~ -9407

Legal Description ~~E 1/2 SW~~ 1/4 NE 1/4 ~~28~~ Section 25 10N Township ~~5E~~ 7E Range Subdivision Addition Block 7 Lot

Geographical Location (if known): Longitude _____ Latitude _____

☐ Check if system mail address is not the same as the owner's address

B. Owner

466-8100

Name Mike + Pamela Edwards Signature Allen C Barber Builder

Address 10501 East O City/State/Zip Lincoln Nebr

☐ Check if owner designed system Home Phone 483-6199 Work Phone 430-3170

C. Contractor

Name Barber Homes Inc. Company Name Allen Barber

Address 3415 So. 79th City/State/Zip 3415 So 79th

☐ Check if contractor designed system Work Phone 430-3170

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name Kyle Loth Firm ESP Work Phone 486-5500

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 4 Is there a Whirlpool Bathtub YES NO

☐ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day_____ Type of Wastewater: ☐ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 2832

1. **Health Department** Date rec'd 8/28/98 Date frwd 8/31/98 ACTION ☒ Approved ☐ Disapproved Signature Jerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 8-31-98 Date frwd 8-31-98 ACTION ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 8-31-98 Date frwd 8-31-98 ACTION ☒ Approved ☐ Disapproved Signature _____

8-31-98 Sewer pipe + trunk only P.D.

Installation Final Written Approval

By Paul D. Thomas

Date 9-11-98

Business Office Use Only

Date Rec'd 08/28/98

Amt Paid 150.00

Rec'd By _____ Cash/Check No. 6465

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

B

Permit Number:

Sewage Disposal System

Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 10501 East O Street (no rural route) City Lincoln NE, Zip 68506

Owner Mike Edwards Addresss 10501 East O Street

Soil Type (SCS): _____ Percolation Rate: 240 min./inch

Date of Tests 9-8-97 to 9-9-97 Weather: Precipitation — Temperature 68

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	30	9-8-97	12:30	9-9-97	1:30	9-9-97	1:30	6	9-9-97	2:00	30	1/8	240
2	〃	〃	〃	〃	〃	〃	〃	6	〃	〃	〃	1/8	〃
3	〃	〃	〃	〃	〃	〃	〃	6	〃	〃	〃	1/8	〃
4	〃	〃	〃	〃	〃	〃	〃	6	〃	〃	〃	1/8	〃
5	〃	〃	〃	〃	〃	〃	〃	6	〃	〃	〃	1/8	〃
6	〃	〃	〃	〃	〃	〃	〃	6	〃	〃	〃	1/8	〃

Person Conducting Percolation Tests

Name: Dave Vogt
Phone: 560-4267
Address P.O. Box 181
Elmwood, NE 68349

Sum of Percolation Rates: _____
Average of Rates: 240
Rate Used for Calculation: _____

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official _____ Date _____

FORM 23-101 10-96

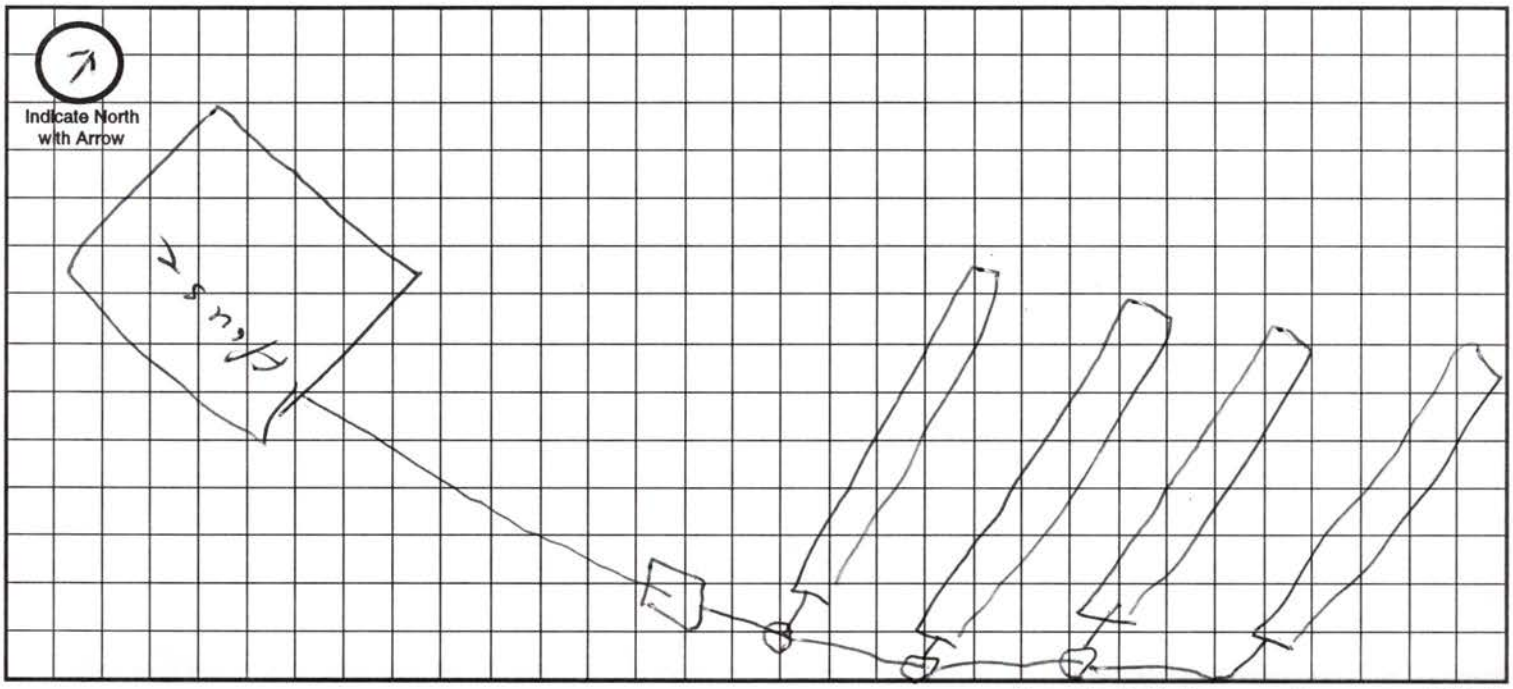
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

C

Permit Number:

Sewage Disposal System
Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



Approximate Scale: _____ ft. = _____ grid line/s

A. System Location (Indicate correct number and street)

Address (no rural route) 10501 East O Street City Lincoln NE, Zip 68506

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate 240 (min. per inch) Soil Type: Clay Land Slope: 2 %

Type of Absorption System: ☐ Trench ☒ Bed ☐ Other _____

Total Square Feet of Field Required: 1920 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☐ Other Lateral Material: Infiltrator

Capacity of Septic Tank 1500 gals Number of Absorption Beds: 4 Number of Distribution Laterals per Bed 1

Total Length of Laterals 240 ft. Number of Trenches _____ Trench Width 8'

D. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☑	500 ☑	50 ☑	NA ☑	25 ☑	20 ☑	15 ☑	25 ☑	☑
Field (ft)	100 ☑	500 ☑	50 ☑	4 ☑	30 ☑	20 ☑	30 ☑	40 ☑	☑
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

E. Required Signatures

Home Building Contractor Allen C Beck Date 8-26-98

Installer _____ Date 8-28-98

FORM 23-102 10-96

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 9-11-98

System Location (Indicate correct number and street)

Address 10501 Ost (no rural route) City Lincoln NE, Zip

A. Building Sewer

1. Material: PVC
   Diameter: 4 in.
2. Distance above basement floor: ____ in.
   or distance below basement floor: 18 in.
3. Distance between dwelling and septic tank: 138 ft.
4. Number of clean-outs: 3
5. Distances to: well or suction line 100+ ft.
   stream 100+ ft.
   pressure line 100+ ft.
   property line 100+ ft.

B. Septic Tank

1. Material: Concrete
   Number of compartments: 1
2. Capacity: 1500 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 16 in.
   Over outlet, diameter 10 in.
   Riser: ☒ above ☐ below grade 1 in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 14 in.
8. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.

C. Distribution Box

1. Material: Concrete
   Number available outlets: 2
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 8 to First one ft.

D. Absorption Field

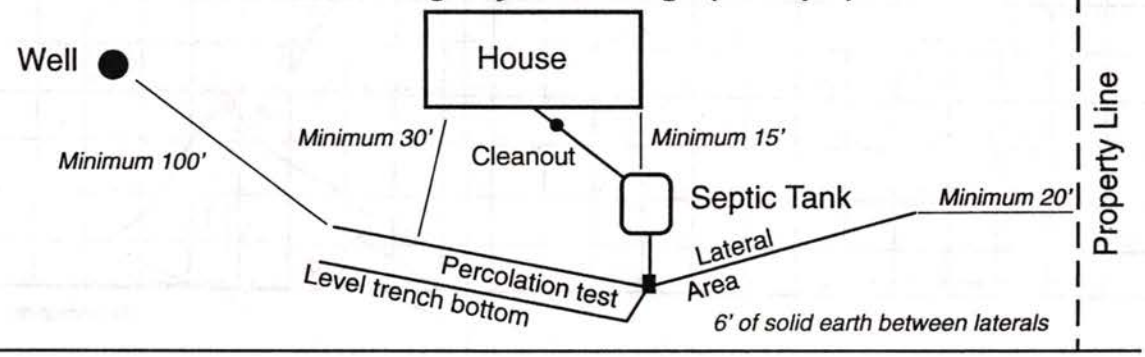
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☐ Perforated pipe
   Diameter of half round: ____
   or perforated pipe: ____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other Infiltrator
2. Lateral lines: Number 4
   Length of each line: 60 ft. 60 ft.
   60 ft. 60 ft., ____ ft.
3. Trench dimensions: Width 8 ft.
   Slope 2 in/100 ft.
   Average depth 28 in
4. Filter material: Sand
   Depth of material 25 in.
5. Distances to: Well or suction line 100+ ft.
   Stream 100+ ft.
   Pressure line 100+ ft.
   Property line 100+ ft.

Indicate North with Arrow

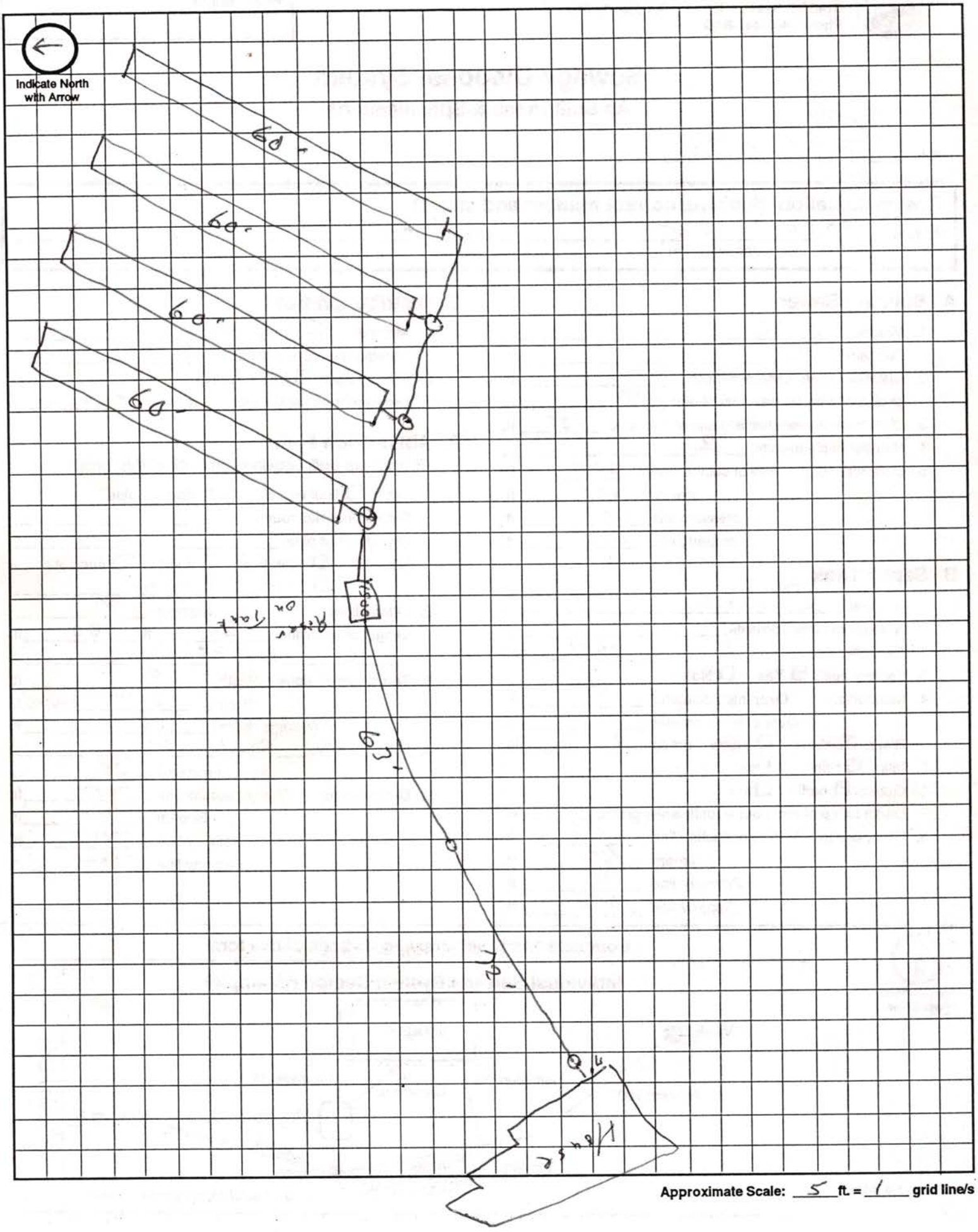
Complete "As Built" drawing on back of this form.

Individual Sewage System Design (Example)



FORM 23-103 10-96

As Built Drawing



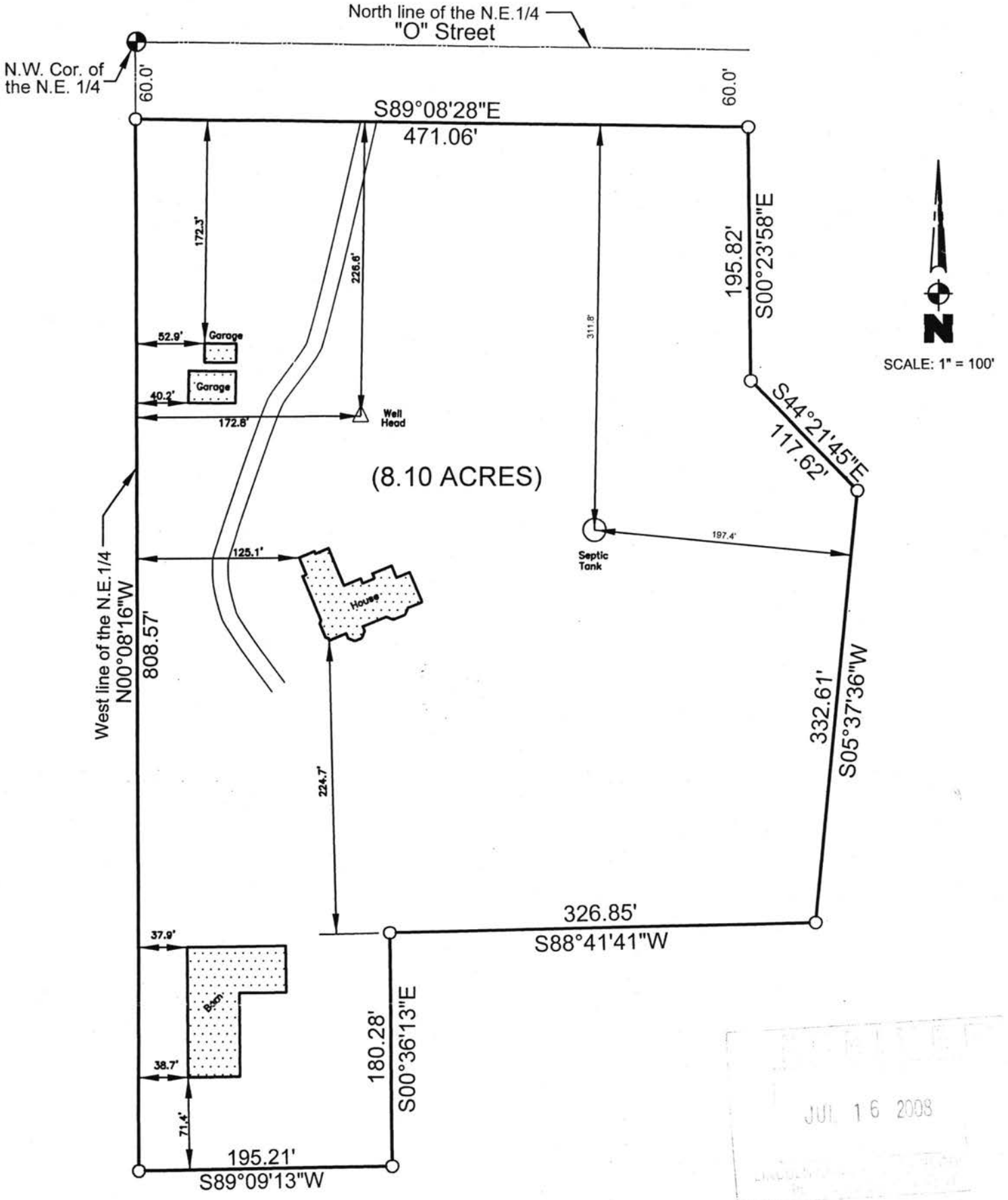
Approximate Scale: 5 ft. = 1 grid line/s

6120 South 58th Street - Suite "A" - Lincoln, Nebraska 68516

Survey a part of the Northeast 1/4

of Section 25 T. 10 N. R. 7 E. of the 6th P.M

Job No. 36480 June 2008



JUL 16 2008

EVAPOTRANSPIRATION/ABSORPTION SYSTEM

OWNER:	Michael & Pamela Edwards
ADDRESS:	10501 East "O" Street
LEGAL:	Part of the SW 1/4 of the NE 1/4, and Part of Lot 7 Section 25, T.10 N., R.7 E. 21.35 acres
SIZE OF HOUSE:	4 Bedrooms
DESIGN FLOW:	4 BR x 150 gal/day/BR = 600 gal/day
PERCOLATION RATE:	240 minutes/inch
EVAPORATION LOSS:	8" per year = 0.0135 gal/sq ft/day
ABSORPTION RATE:	Allowable Absorption based on Formula: $Q = 5/\sqrt{t}$, t = Percolation Rate. For t = 240 min/in, Q = 0.323 gal/day
TOTAL LOSSES:	0.013 + 0.323 = 0.336 gal/sq ft/day
REQUIRED AREA:	600 gal/day ÷ 0.336 = 1786 sq ft 1786 sq ft x 37.5% = 670 sq ft Infiltrator Base Area 670 sq ft ÷ 18.75 sq ft per chamber = 35.7 chambers

Use 4 trenches with 9 Standard Infiltrator Chambers per trench

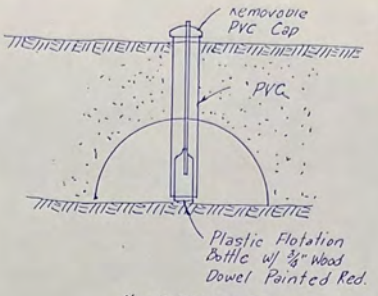
Each Trench to be 8' wide x 60' long

36 Standard Infiltrator Chambers @ 77 Gal/Chamber = 2772 gal.
2.04 gal/cu ft of Wicking Sand x 3470 cu ft = 7080 gal
Total Storage Volume = 9852 gal.

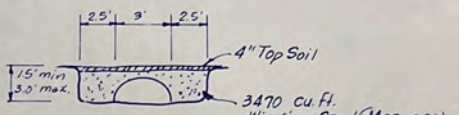
NOTE: The Contractor shall excavate an inspection pit to confirm that a 4' separation can be maintained from any seasonal water table (perched or otherwise) or impermeable clay or rock layer.

It is recommended that a water meter be installed on the water supply so that the Owner can monitor their water use and ensure that not more than 600 gallons per day are being used.

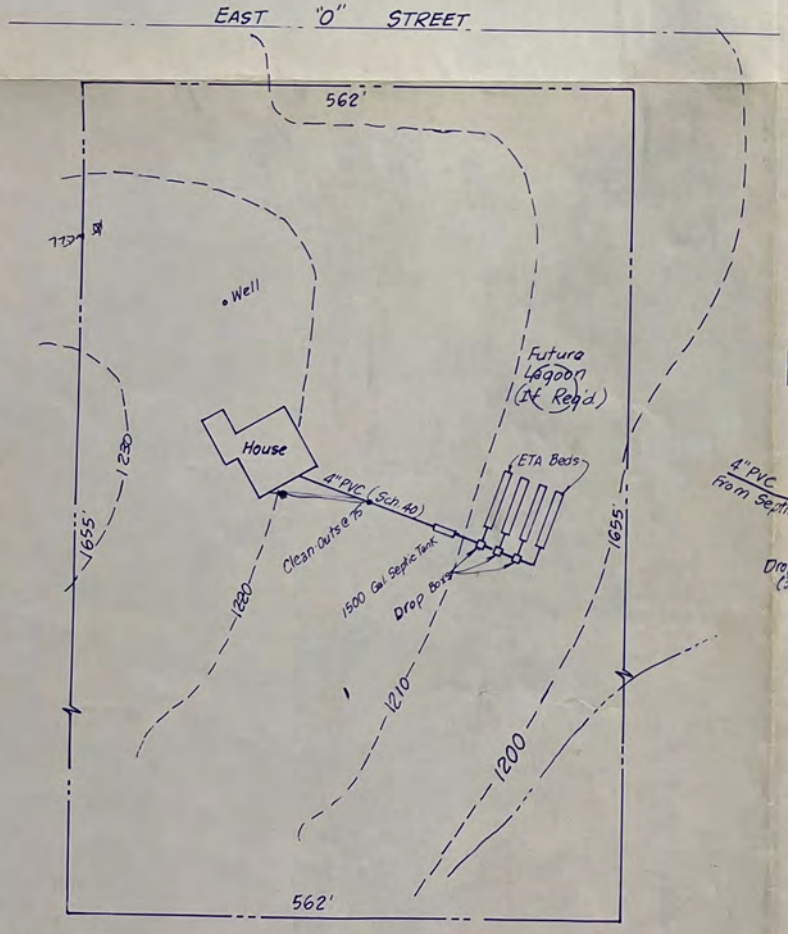
It may be necessary to adjust the orientation of the trenches so that the minimum (1.5') and maximum (3.0') depths are not exceeded.



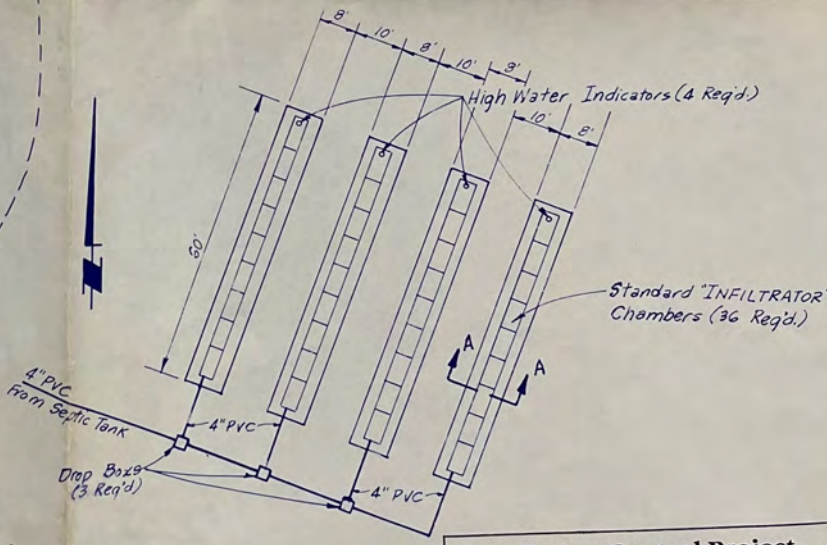
HIGH WATER INDICATOR
(4 Req'd.)



SECTION A-A



SITE PLAN
Scale: 1" = 100'



PLAN
Scale: 1" = 20'

Pollution Control Project

APPROVED

8/24/98 Steven M Thomas, P.E.

DEPARTMENT OF ENVIRONMENTAL QUALITY
AUG 24 1998
RECEIVED
Lyle L Loth

Michael & Pamela Edwards 10501 East "O" Street	EVAPORATION/TRANSPIRATION/ABSORPTION SYSTEM	**Garber & Work, Inc.** Lincoln, Nebraska ENGINEERING • ARCHITECTURE Scale: As Shown Date: July 28, 1998	Drwg. No. 9585