H5001828

Application to Alter or Repair an Onsite Wastewater Treatment System

The applicant is applying for a permit to: ☒ **ALTER** ☒ **REPAIR** an existing Onsite Wastewater Treatment System, and agrees to comply with LMC 24.38 or County Resolution 02-0030.

1. **Street Address (No Rural Route):** 2501 W Denton Rd

Legal Description of Property: Township: 9 Range: 6 Section: 21

Block _____ Lot 2 SubDivsion Cardwell Woods Add: _____

***Parcel ID** 09 - 21 - 101 - 002 - 000 (i.e. 99-99-999-999-999)

2. **Property use:** ☒ Residential ☐ Commercial ☐ Other use (Describe: _____)
Number of bedrooms 3 Does the system have a: ☐ Garbage Grinder ☐ Large Capacity Tub

3. **Type of Present Individual Disposal System** ☒ septic system ☐ lagoon ☐ other

4. **Description of proposed alteration or repair:** Add 150' of EZ Flow
It looks like the Distribution box is leaking on top of ground

5. **Current Type of Lateral-** Perforated Pipe **Current Linear Ft. Of Lateral -** 360'

Current Tank Gallonage- 1250

6. Print Name Steven C Lewis Address 4810 W. Claire Ave Phone: 4024321082

Applicant Signature: _____

Please contact LLCHD for the current permit fee for this application
Fee must be included before the application will be processed. Incomplete information will delay processing.

HEALTH DEPARTMENT USE ONLY

☐ Municipal Code 24.38 ☐ County Resolution Number 02-30

Date received ____/____/____ REVIEW: ☐ Approved ☐ Disapproved By: _____

Comments (if any): _____

Site visits
Date ____/____/____ By _____
Date ____/____/____ By _____

Installation final written approval
Date ____/____/____ By _____

Return application to:
Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street, Lincoln, NE 68510
Phone: (402) 441-8643

Business Office Use Only
Received: Date: 5/21/19 Amount $225.00 Check No. cc 8412 Initials JAO

Revised 4/8/13

SCANNED

#5001828

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   Legal Description of Property: Township: 9 Range: 6 Section: 21

   Block _____ Lot 2 SubDivsion Cardwell Woods Add: _____

   *Parcel ID 09 - 21 - 101 - 002 - 000 (i.e. 99-99-999-999-999) 3.03 ac

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HEALTH DEPARTMENT USE ONLY

☒ Municipal Code 24.38 ☐ County Resolution Number 02-30

Date received 5/22/19 REVIEW: ☒ Approved ☐ Disapproved By: _____

Comments (if any): _____

Site visits
Date ___/___/___ By _____
Date ___/___/___ By _____

Installation final written approval
Date 6/18/19 By _____

Return application to: Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street, Lincoln, NE 68510
Phone: (402) 441-8643

Business Office Use Only

Received: Date: 5/21/19 Amount $225.00 Check No. cc 8412 Initials JAO

Revised 4/8/13

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3131 O Street • Lincoln NE 68510-1514
Phone: 402-441-8643

Permit Number: H5008778

Onsite Wastewater Treatment System

Inspection Sheet

Date 6/18/19 Legal Description _____

¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) 2504 W. Fenton Rd. City _____

Owner _____ Address _____

Mark One: ☒ Dwelling ☐ Non-dwelling

☐ New System ☒ Alteration [☐ Tank Only ☐ Trench Only] ☐ Lateral Only

☐ Temporary modification (Describe problem causing discharge and reason for temporary modification): _____

_____

Drainfield Absorption System:

☒ Lateral ☐ Bed ☐ Non-standard (engineer-designed and NDEQ approved) ☐ Holding Tank ☐ Trench

Total square feet of drainfield 675 Sq. Ft. Tank Size 1000 - 1250 gals

Total length of laterals 150' Type of Distribution: ☐ Chamber ☐ Perforated Pipe ☒ Other (describe) Ez-flow

No. of Absorption Laterals 2 Width 3' No. of Drop Boxes 0 Distribution Box 1

Leveling Method Used D/O

Setbacks (Check the Boxes Below if the Required Setback has been Satisfied):

Distance From	Private Well	Public Well	Surface Water	Ground water	Pressure Water Lines	Property Lines
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☒	10 ☐	5 ☒
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	25 ☒	5 ☒

Geographical Coordinates to 6 Decimals:

Tank_____

Lateral #1_____ Lateral #3_____

Lateral #2_____ Lateral #4_____

Comments:

Inspections prior to Final Approval
Initial _____ Date _____

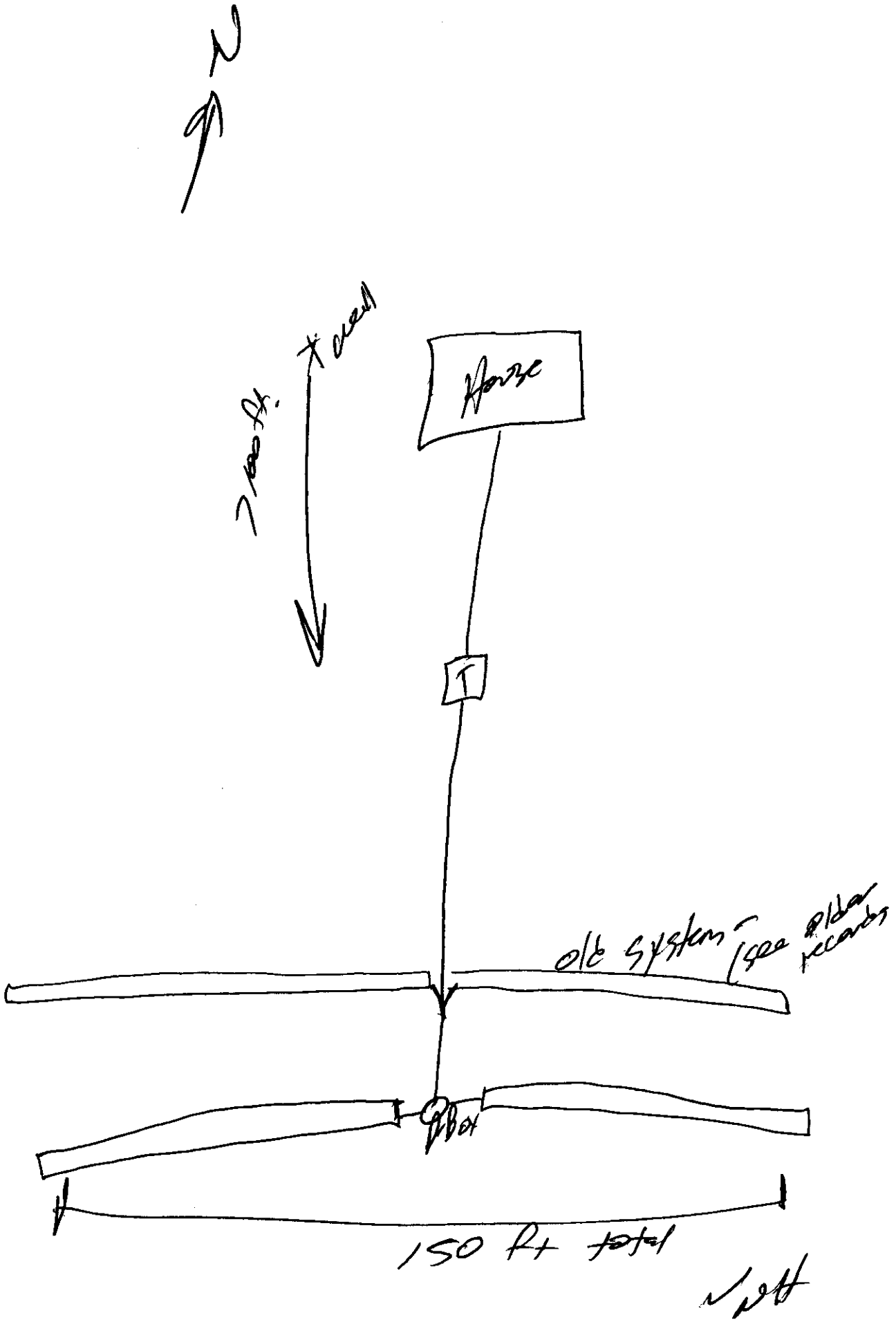
Follow-Up_____ Date _____

Follow-Up_____ Date _____

Installation Final Written Approval
By _____

Date _____

Field Note Drawing (See Reverse Side):


N
House
T
old system (see older records
150 ft total
West

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 6-2-99

System Location (Indicate correct number and street)

Address 2501 W. Denton Road (no rural route) City Lincoln NE, Zip 68523

A. Building Sewer

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

B. Septic Tank

1. Material: Concrete
   Number of compartments: _____
2. Capacity: 1250 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter _____ in.
   Over outlet, diameter _____ in.
   Riser: ☐ above ☐ below grade _____ in.
5. Inlet: ☐ baffle ☐ tee
6. Outlet: ☐ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 18 in.
8. Distances to: Well or suction line 200 ft.
   Stream — ft.
   Pressure line — ft.
   Property line 60 ft.

C. Distribution Box

1. Material: Concrete
   Number available outlets: 5
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 20' ft.

D. Absorption Field

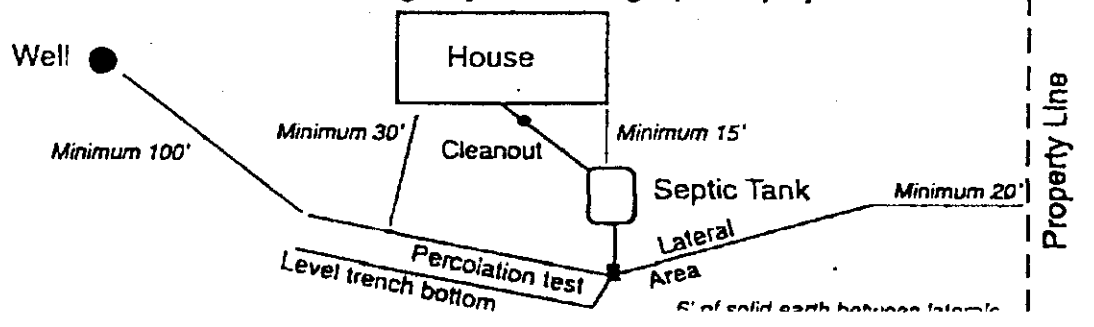
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☒ Perforated pipe
   Diameter of half round: _____
   or perforated pipe: _____
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number 4
   Length of each line: 90' ft. 90' ft.
   90' ft. 90' ft., _____ ft.
3. Trench dimensions: Width 2 ft.
   Slope 3"± in/100 ft.
   Average depth 24" in
4. Filter material: Gravel
   Depth of material 12 in.
5. Distances to: Well or suction line 200 ft.
   Stream — ft.
   Pressure line — ft.
   Property line 30 ft.

Indicate North with Arrow

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

Individual Sewage System Design (Example)



FORM 23-103 10-96

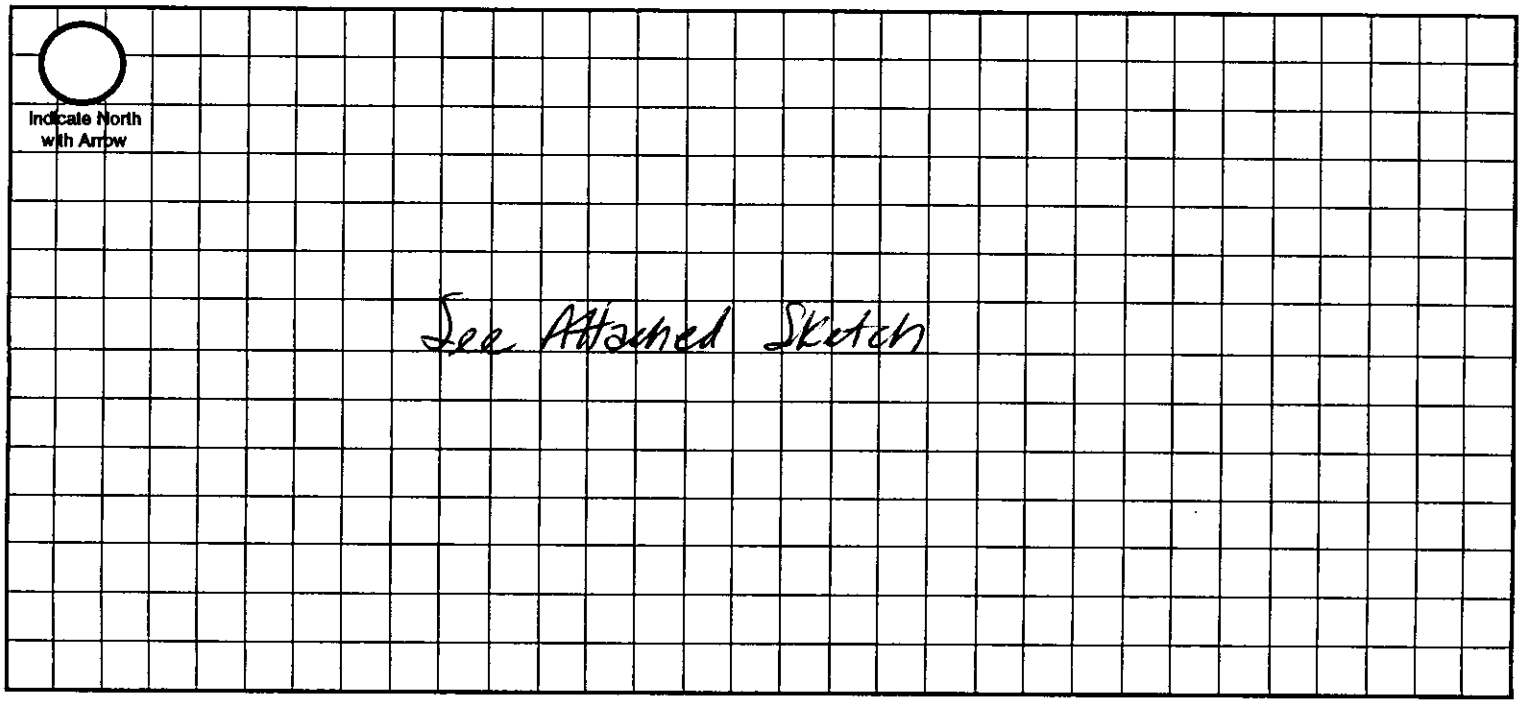
Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

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) 2501 W. Denton Road City Lincoln NE, Zip 68523

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

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

Percolation Rate 11 (min. per inch) Soil Type: Judson Silty Clay Loam Land Slope: _____ %

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

Total Square Feet of Field Required: 680 sq. ft.

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

Capacity of Septic Tank 1250 gals Number of Absorption Beds: — Number of Distribution Laterals per Bed —

Total Length of Laterals 360 ft. Number of Trenches 4 @ 90' Trench Width 2'

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 ☐	☐

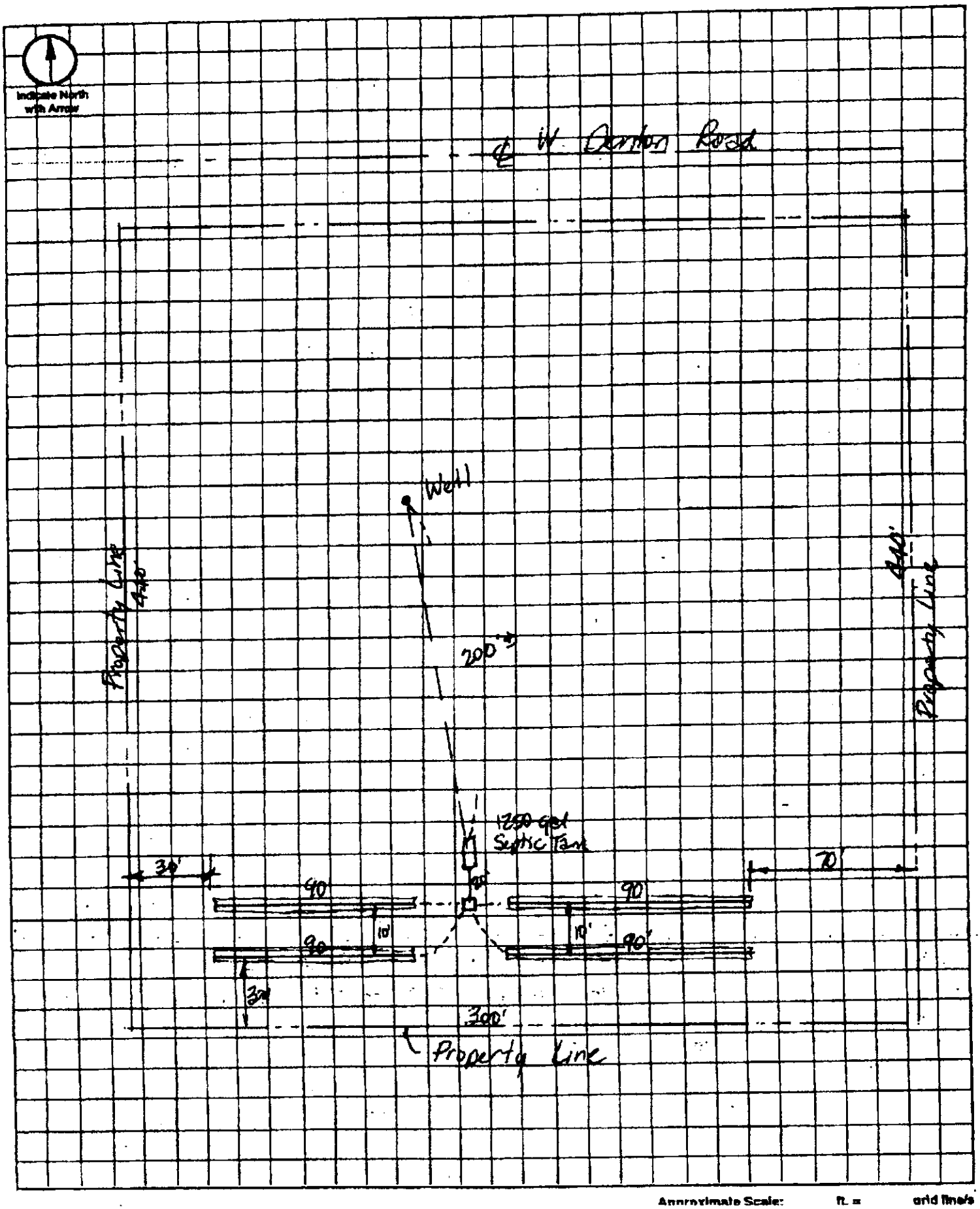
E. Required Signatures

Home Building Contractor _____ Date _____

Installer Lyle J Loth Date March 4, 1998

FORM 23-102 10-96

As Built Drawing



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 2501 W. Denton Road (no rural route) City Lincoln NE, Zip 68523

Owner Don Marshall Addresss

Soil Type (SCS): Judson Silty Clay Loam Percolation Rate: 11 min./inch

Date of Tests 6/16/96 to 6/18/96 Weather: Precipitation Temperature

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	36"	6/16	1:00	6/17	7:00	6/18	8:32	15 1/2	8:42	16 1/4	10	3/4	13.33 (13)
2	36"	6/16	1:05	6/17	7:05	6/18	8:33	16 1/4	8:43	17 1/4	10	1	10 ~~6.67~~
3	36"	6/16	1:10	6/17	7:10	6/18	8:34	17 7/8	8:44	19 3/8	10	1 1/2	6.67 (7)
4	36"	6/16	1:15	6/17	7:15	6/18	8:35	6	8:45	6 3/4	10	3/4	13.33 (13)
5	36"	6/16	1:20	6/17	7:20	6/18	8:36	8 3/4	8:46	10	10	1 1/4	8
6	36"	6/16	1:25	6/17	7:25	6/18	8:37	8 5/8	8:47	9 1/4	10	5/8	16

Sum of Percolation Rates: 67.3

Average of Rates: 11"

Rate Used for Calculation: 11"

Person Conducting Percolation Tests

Name: Lyle L. Loth

Phone: 484-5500

Address 4910 Normal, Suite D
Lincoln, NE 68506

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks

Signature of Reviewing Official Jerrold C. Hood R.E.H.S. Date MARCH 5, 1998

FORM 23-101 10-96

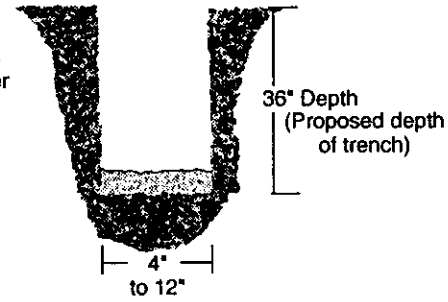
READ THOROUGHLY

DIAGRAM OF PERCOLATION TEST PROCEDURE

Finished Grade or Natural Ground Level

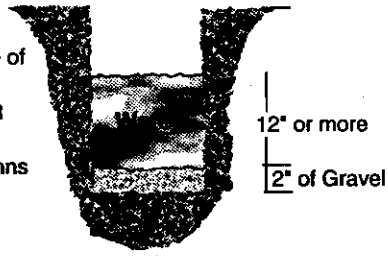
I. Size, Number, and Location or Test Holes

- A. Dig six or more holes spaced uniformly over proposed lateral field site.
- B. Scratch smeared spots on sides of hole.
- C. Remove loose material from hole.
- D. Add 2" of gravel to hole.



II. Saturation of Soil (Pre-soak)

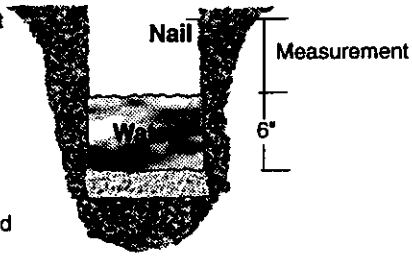
- A. Fill hole with 12" or more of water.
- B. MAINTAIN THIS WATER LEVEL FOR 4 HOURS.
- C. Record on Form B columns a thru f.



24 Hours Later

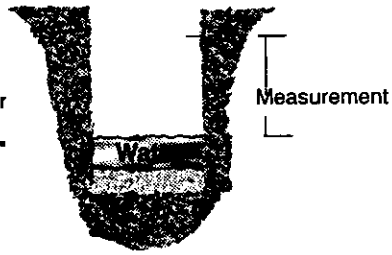
III. Percolation-rate Measurement **(refer to instructions 5a, 5b, or 5c.)**

- A. Add 6" of water.
- B. Measure from fixed reference point (nail) to water.
- C. Record measurement and time on front of Form B.



½ hour later
(30 minutes)

- D. 30 minutes later remeasure and record time.
- E. If water will be too low for another reading 30 minutes later, adjust to 6" of water and remeasure and record time.



- F. Continue for 3½ hours taking readings every 30 minutes.
- G. Last 30 minute reading is used in filling out Form B. Record date, time, intervals and water level drops in column g thru m.

Instructions

1. **Number and location of tests.** Percolation tests shall be made in 6 or more separate test holes which shall be spaced uniformly over the proposed lateral field site.
2. **Type of test hole.** Dig or bore a hole 3 feet deep with a diameter of 4 to 12 inches. (To save time, labor and the volume of water required per test, a 4-inch auger hole is recommended).
3. **Preparation of the test hole.** Scratch or roughen any smeared spots on the sides of the hole with a knife blade or sharp pointed instrument to provide a natural soil interface into which water may percolate. Remove all loose material from the hole. Add 2 inches of gravel to protect the bottom from scouring when water is poured into the hole.
4. **Saturation and swelling of the soil.** Fill the hole with clear water to a depth of 12 inches or more above the gravel and maintain this water level at least 4 hours and preferably overnight. The accuracy and true value of the percolation data depends on thorough saturation and swelling of the soil.
5. **Percolation-rate measurement.** Percolation-rate measurements shall be made 24 hours after starting the saturation and swelling procedure described above. Record results on the front of this form and complete all calculations.
   a. If water remains in the test hole after the overnight swelling period, adjust the depth to approximately 6 inches over the gravel. From a fixed reference point, measure the drop in water level over a 30 minute period to the nearest 1/8 of an inch. This drop is used to calculate the percolation rate.
   b. If no water remains in the test hole after the overnight swelling period, add clear water to bring the depth to approximately 6 inches over the gravel. From a fixed point, measure the drop in water level to the nearest 1/8 of an inch at 30-minute intervals for 4 hours. Refill to the 6 inch level over the gravel as often as necessary. The drop that occurs during the final 30 minutes is used to calculate the percolation rate.
   c. In sandy soils (or other soils in which the first 6 inches of water seeps away in less than 30 minutes after the overnight swelling period) the time interval between measurements shall be 10 minutes instead of 30 minutes and the test run for 1 hour instead of 4 hours. The drop that occurs during the final 10 minutes is used to calculate the percolation rate.
6. **Record the test results and complete all calculations on the front of this form.** The average of the percolation rates calculated for all holes in the last 30 (10) minutes will normally be the rate used for calculations to size the system. ***Exceptions are the use of the greatest percolation rate when rates vary more than 20 min/in between holes or when other soil analysis indicates potential percolation problems.***

LLCHD reserves the right to require additional testing based on knowledge of soil types, percolation tests results on nearby properties, or due to concerns with procedures followed. In some situations, LLCHD staff will require and perform on-site observation of percolation tests.

300.00'

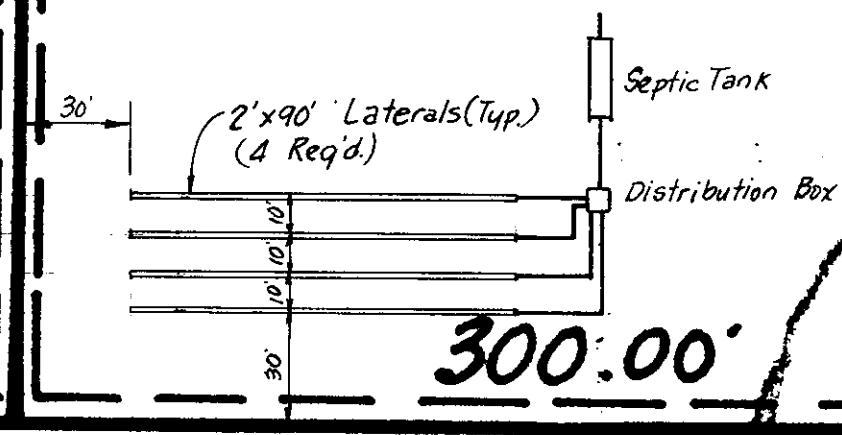
50' X 50' Access Easement

Well

2

440.00'

440.00'



5.00'

300.00'

585.00'

S.89°59'00"E.

10' Utility Easement
(Typ.)