Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number HS002721

Onsite Wastewater Treatment System Permit Application

Include Form B and C. Submit correct fee with this Application

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

PLEASE PRINT OR TYPE

A. Onsite System Location

Address* 17474 Birdsong PL City Hickman, NE Zip _____
(no rural route)

Legal Description S23 T6 R7 Cedar Woods Estates Add. 6
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 15-23-401-006-000 *Approx. Address (If to be determined) 17474

B. Owner

Name Rick & Brenda Krause Signature _____
Address 7910 Renatta Dr # 1 City/State/Zip Lincoln, NE 68516
Home Phone 402-730-8787 Work Phone _____

C. Certified Installer

Name: Scott Hges Signature _____
Address: 6800 Breagan Rd City/State/Zip Lincoln NE 68526
Work Phone 402-499-1166

D. Engineer ☐ **Check and complete if engineer designed system** P.E. License Number: _____

Designer Name _____ Firm _____ Work Phone _____

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 4 Whirlpool Bathtub? ☐ Yes ☒ No Total Acres 3
Garbage Grinder? ☐ 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

1. Health Department
Site visits _____ Date rec'd _____ **ACTION** ☐ Approved ☐ Disapproved
Date frwd _____ Signature _____
Comments _____

2. Supt. Bldg. Insp. or Village Clerk
Comments _____ Date rec'd _____ **ACTION** ☐ Approved ☐ Disapproved
Date frwd _____ Signature _____

3. City or County Engineer
Comments _____ Date rec'd _____ **ACTION** ☐ Approved ☐ Disapproved
Date frwd _____ Signature _____

Installation Final Written Approval
By _____
Date _____

Business Office Use Only
Date Received 5-24-21 Amount Paid $440.00
Received By JAC Cash/Check No. 1443

White - Health Department Yellow - Engineer Pink - Building & Safety

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3131 O Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS002221

System Type: Lagoon

Situs: No Site Address Specified

Issued: 5/24/2021

Expires: 5/24/2022

Description: CEDAR WOODS ESTATES ADDITION, Lot 6

Owner: KRAUSE, BRENDA & RICK
7910 RENATTA DR UNIT 1
LINCOLN, NE 68516

Patricia D. Lopez

Patricia D. Lopez, RN, MSN, Interim Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Patricia D. Lopez

Patricia D. Lopez, RN, MSN
Health Director

RICK KRAUSE
7910 RENATTA DR #1
LINCOLN, NE 68516

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

SCANNED

A

Permit Number
HS002721

Onsite Wastewater Treatment System Permit Application

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Address 7910 Renatta Dr #1 City/State/Zip Lincoln, NE 68516
Home Phone 402-730-8787 Work Phone

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Site visits
Comments
Date rec'd 5/24/21
Date frwd 5/24/21
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

Installation Final Written Approval
By
Date 4/20/22

Business Office Use Only
Date Received 5-24-21 Amount Paid $440.00
Received By JAD Cash/Check No. 1173

White - Health Department Yellow - Engineer Pink - Building & Safety

Form A Updated: 4/15

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

Permit Number: H5002221

Onsite Wastewater Treatment System

Inspection Sheet

Date 4/20/22 Legal Description _____
¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) _____ 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 2000 Sq. Ft. (1315 Sq Ft) Tank Size 2000 gals

Total length of laterals _____ Type of Distribution: ❑ Chamber ❑ Perforated Pipe ❑ Other (describe)_____

_____

No. of Absorption Laterals _____ Width _____ No. of Drop Boxes _____ Distribution Box _____

Leveling Method Used _____

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: Done as per engineer except 2/2a 5 ft trenches w/ blk material - system broadcast over seeded.

Field Note Drawing (See Reverse Side):

Inspections prior to Final Approval
Initial NA Date 4/11/22

Follow-Up_____ Date _____

Follow-Up_____ Date _____

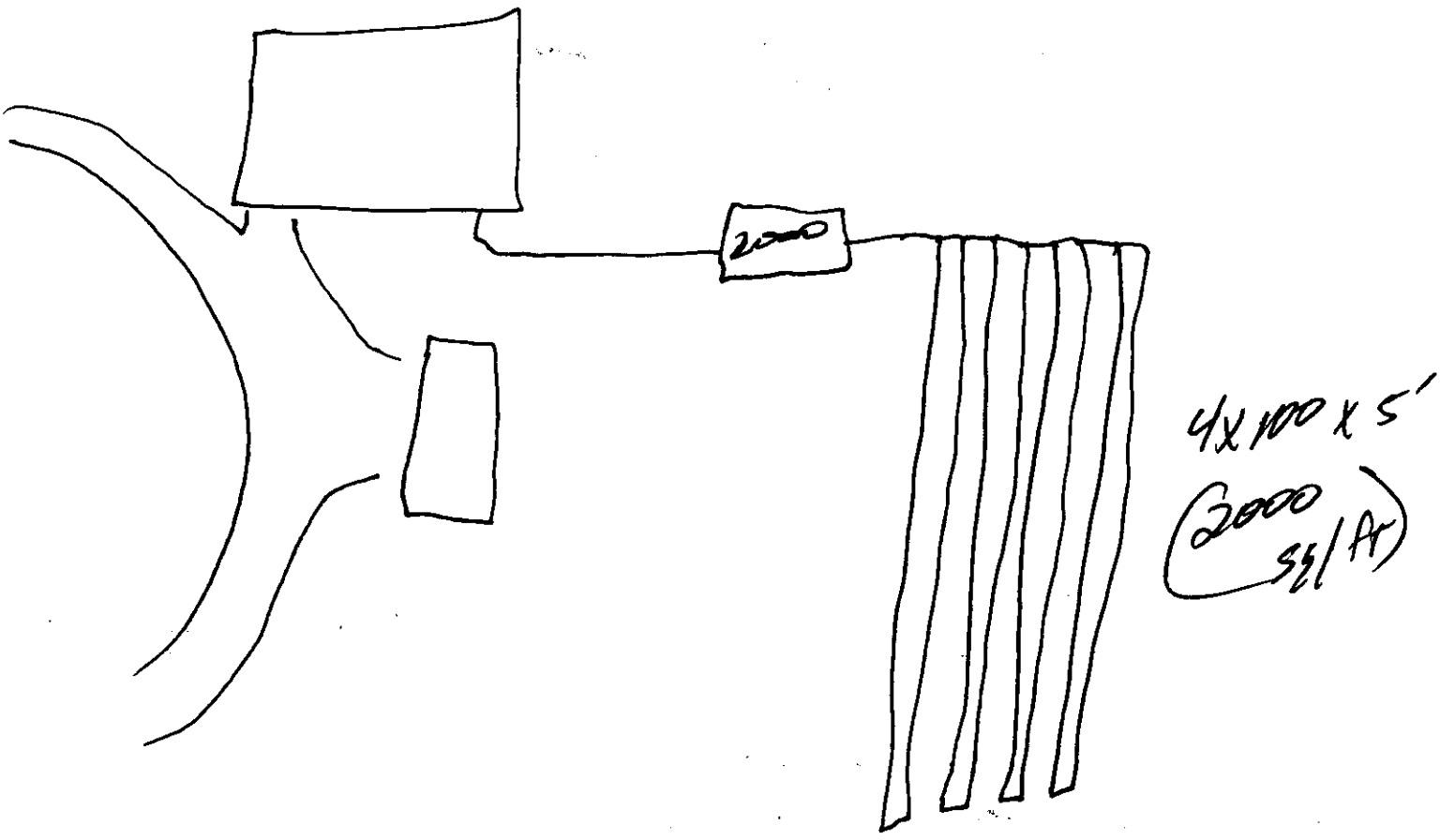
Installation Final Written Approval
By _____

Date _____

Updated 5/18

* contacted SE Rural Water - no water lines along main road ✓ NA south

* Rural water



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

D

Permit Number:

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date 4-12-2022 Legal Description 1/4 1/4 23 Section 8N Township 7E Range Lancaster

Onsite System Location

Address (no rural route) 17474 Songbird Place City Hickman NE, Zip 68372

Owner Rick & Brenda Krause Address

A. Sewer Pipe

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: 105 ft.
4. Number of clean-outs: 5
5. Distances to: well or suction line ____ ft.
   stream ____ ft.
   pressure line 10 ft.
   property line 50 ft.

B. Septic Tank

☒ Label with Manufacturer, address and gallon capacity

1. Material: Del Zotto MFG 2000 concrete
   Number of compartments: 1
2. Capacity: 2000 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☒ above ☐ below grade 18 in.
5. Inlet: ☒ baffle ☐ tee ☐ 6" dia. inspection pipe
6. Outlet: ☒ baffle ☐ tee ☐ 6" dia. inspection pipe
7. Depth to top of tank, below unfinished grade: 18 in.
8. Distances to: Well or suction line ____ ft.
   Stream ____ ft.
   Pressure line 50 ft.
   Property line 50 ft.

2250

C. ☐ Distribution Box ☐ Drop Boxes

(≥ 12" inspection opening) (removable lid to inspect)

1. Material: ____
   Number available outlets: ____
2. Factory built: ☐ Yes ☐ No
3. Distance from septic tank: ____ ft.

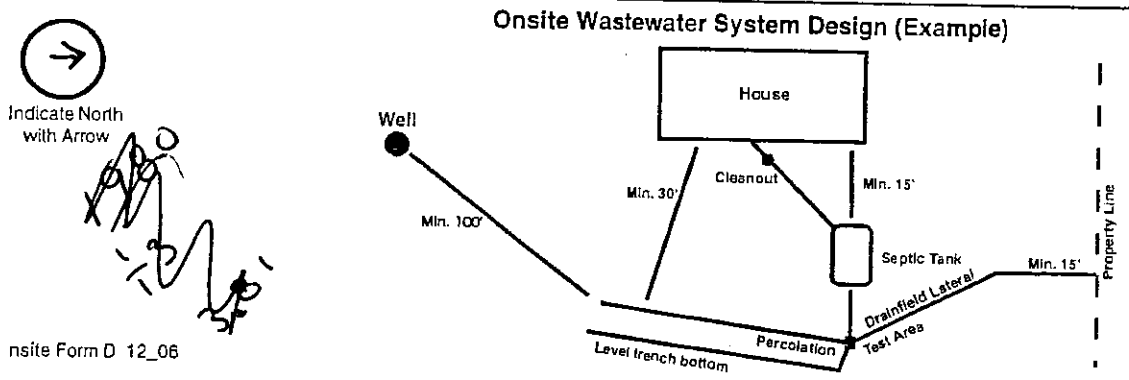
D. Drainfield Absorption

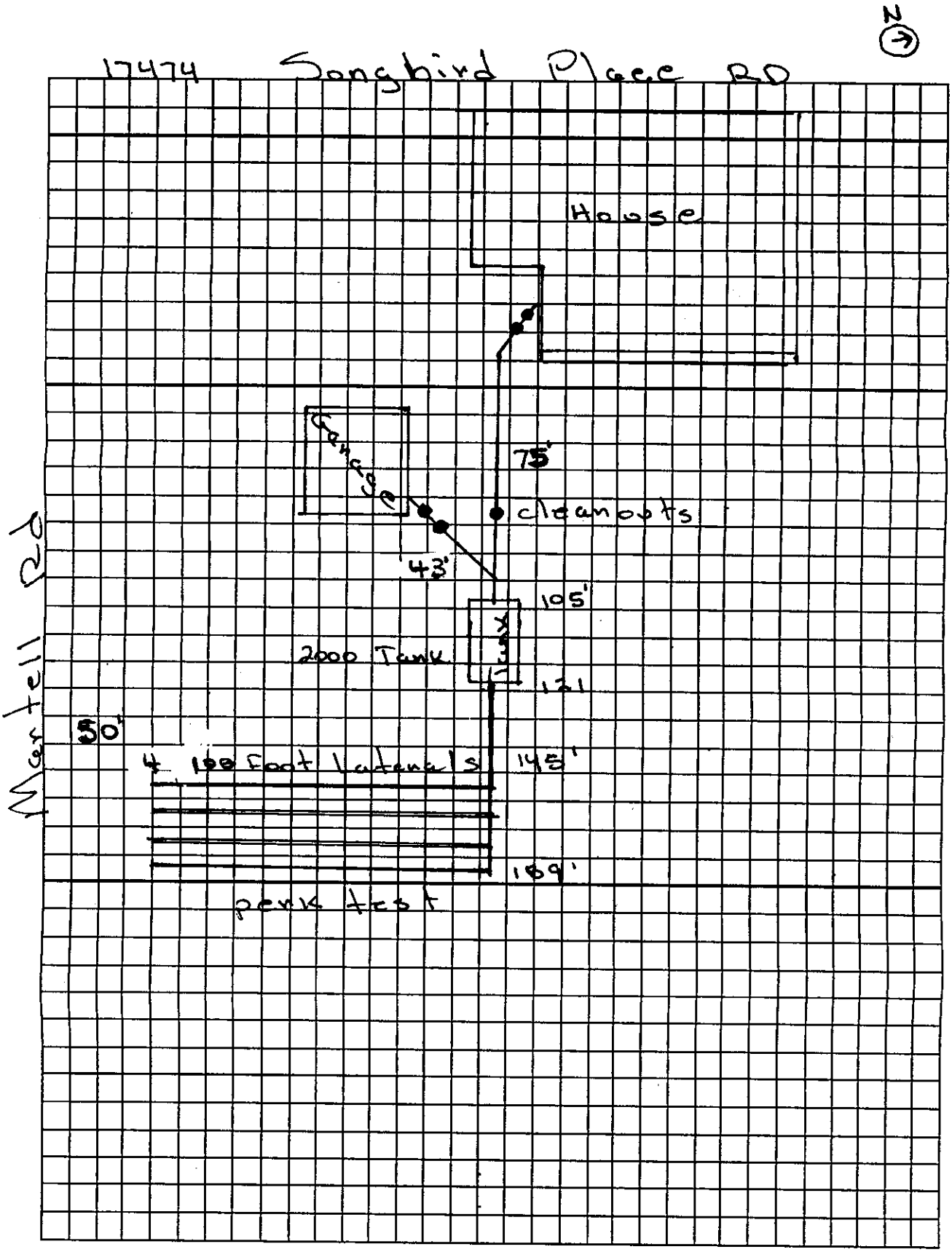
☒ Trench ☐ Bed ☐ Level Bottom

1. Type: ☐ Half rounds ☐ Perforated pipe ☒ Chambers
   Diameter or width: 29 Q4 810-S
   Number of distribution lines in bed ____
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other ____
2. Drainfield Laterals: Number 4
   Length of each line: 100 ft. 100 ft.
   100 ft. 100 ft., ____ ft.
3. Drainfield dimensions: Width 5 ft.
   Distribution Pipe Slope 1/4 in/100 ft.
   Average depth 30 in
4. Filter material: 473 Sand
   Depth of material 18 in.
5. Distances to: Well or suction line 145 ft.
   Pressure line 150 ft.
   Property line 50 ft.
   House or building 145 ft.
   Lake or Stream ____ ft.

Complete As-Built drawing on the back fo this form.

Onsite Wastewater System Design (Example)




17474 Songbird Place RD
N
House
Garage
75'
cleanouts
43'
105'
2000 Tank
Tank
121
50'
4 100 Foot Laterals
145'
169'
perk test
Well

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 17474 Birdsong Place (no rural route) City Hickman NE, Zip 68372

Owner Rick & Brenda Krause

Soil Type (SCS): Clay Loam Percolation Rate: 120 min./in

Date of Tests 12-5-20 to 12-6-20 Weather: Precipitation overcast / none Temperature 35°

Percolation Test Data Table

A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.
		Pre-Saturation Period				Percolation Readings					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 Rat (Min/in)
1	24"	12/5	9:00	12/6	11:00	12/6	1100	6	12/6	3:00	30	1/4	120
2	24"	12/5	9:00	12/6	11:00	12/6	1100	6	12/6	3:00	30	1/4	120
3	24"	12/5	9:00	12/6	11:00	12/6	1100	6	12/6	3:00	30	1/4	120

Sum of Percolation Rates: 360

Average of Rates: 120

Rate Used for Calculation: 120 MPI

Person Conducting Percolation Tests

Name: Scott Haes

Phone: 402-499-1166

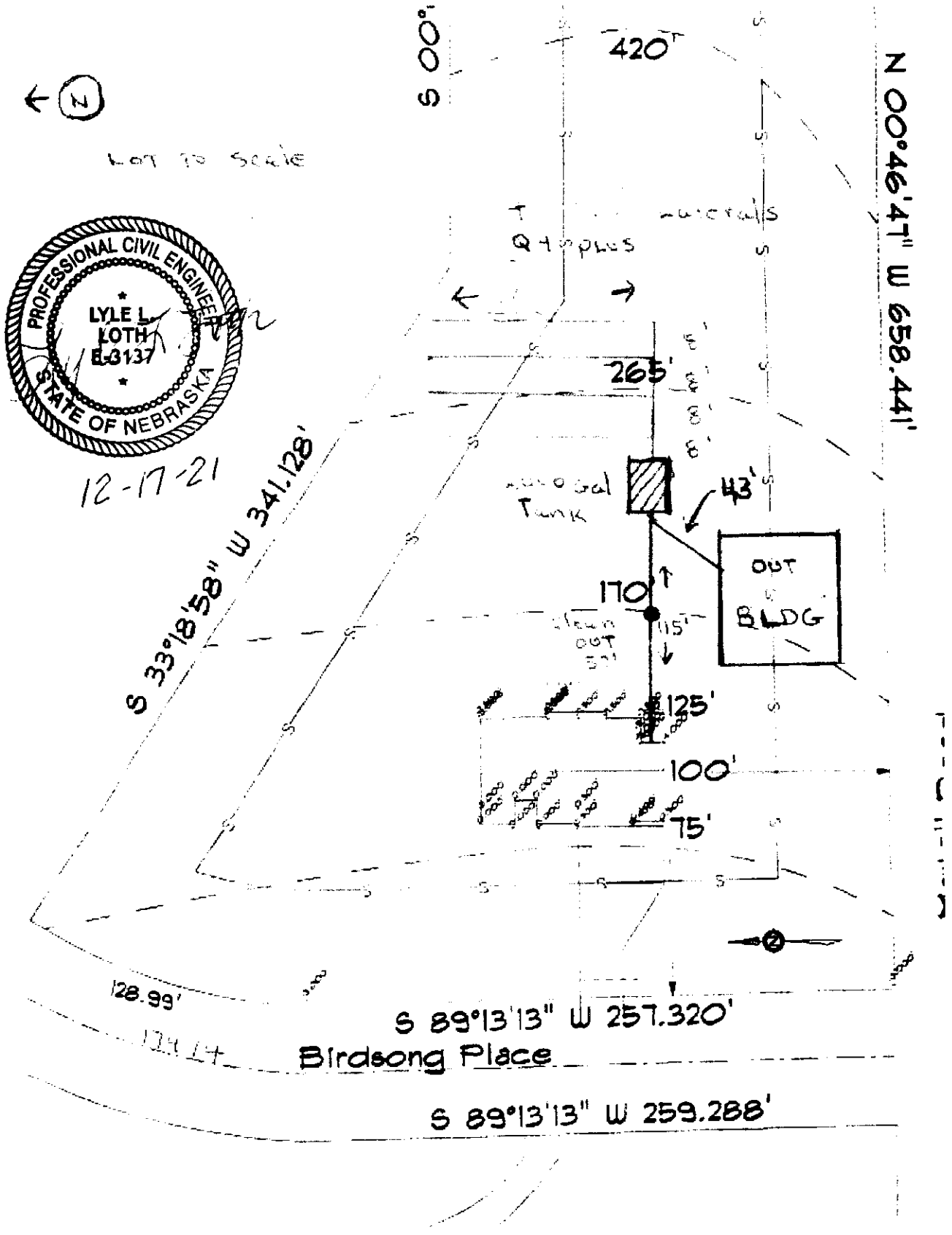
Address 9800 Bretagan Rd

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks

Signature of Reviewing Official Date


N
Lot to Scale
S 00°
420'
N 00°46'47" W 658.441'
Quarry Fines
265'
43'
Tank
OUT
BLDG
170'
115'
125'
100'
75'
S 33°18'58" W 341.128'
128.99'
S 89°13'13" W 257.320'
Birdsong Place
S 89°13'13" W 259.288'
PROFESSIONAL CIVIL ENGINEER
LYLE L. LOTH
E-13137
STATE OF NEBRASKA
12-17-21

Rick & Brenda Krause
17474 Birdsong Place
Hickman, NE 68372
Lot 6, Cedar Woods Estates (Parcel # 1523401006

4 BR Residence plus Outbuilding w/ Bath = 5
Design Flow for 5 BR = 600 gpd (Title 124,
Use 2000 gallon Septic Tank (Title 124, 10.
Percolation Rate = 120 minutes/inch

Lateral Field using Quick 4 Plus Standard Ch
Required Sq. Footage = Design Flow × 0.2 × $\sqrt{\text{Perc Rate}}$
= 600gpd × 0.2 × $\sqrt{120}$
= 1315 sq. ft
Effective Width of Quick 4 Plus = 29" × 1.5 = 3.625
Required Trench Length = 1315 ÷ 3.625 = 363 feet

Use 4-100' Laterals w/ 25 Chambers/Latera

PROFESSIONAL CIVIL ENGINEER
LYLE L. LOTH
E-3137
STATE OF NEBRASKA

12-17-21