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

A

Permit Number HS0017 44

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* 10195 RICKY RD City LINCOLN, NE Zip 68516
(no rural route)

Legal Description S33 T9N R7E Newburn Acres 1 5 100

1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 16-33-100-040-000 *Approx. Address (If to be determined)

B. Owner

Name GARY BOLLINGER Signature

Address 10101 WEEKS DR City/State/Zip LINCOLN, NE 68516

Home Phone 402- 202 6336 Work Phone

C. Certified Installer

Name: JASON KUBIK Signature Jason Kubik

Address 105 LOCUST ST City/State/Zip HICKMAN, NE 68372

Work Phone 402-475-2462

D. Engineer

☒ **Check and complete if engineer designed system** P.E. License Number: E - 10344

Designer Name TIM GERGEN Firm THE ENERSEN PARTNERS Work Phone 402-477-9291

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 4 Whirlpool Bathtub? ☐ Yes ☒ No Total Acres 2.02
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
Comments
Date rec'd
Date frwd
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

Business Office Use Only
Date Received 9-28-16 Amount Paid $405.00
Received By JAO Cash/Check No. 5120

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

Form A Updated: 4/15

SEP 19 2018

NEBRASKA

Good Life. Great Environment.

DEPT. OF ENVIRONMENTAL QUALITY

SEP 14 2018

Pete Ricketts, Governor

Gary Bollinger
10201 Ricky Rd
Lincoln, NE 68516

RE: 10201 Ricky Rd, Lincoln, NE 68516
The Enersen Partners No. 007-016-14
40.7091670, -96.6393230, Lancaster County
NDEQ ID: **111499**
OWT ID: **18OWT023**

Dear Mr. Bollinger:

On July 26, 2018 the Nebraska Department of Environmental Quality (NDEQ) received an Onsite application for a construction and operating permit. NDEQ is approving the construction permit for the project described in the approved plans. It is your responsibility to make sure the facility is built according to the approved plans and applicable regulations. We strongly recommend that you meet with your engineer and installer prior to construction to review the approved plans and specifications. If any modifications are necessary, Title 124 requires that you obtain written approval from the Department before changes are made to the system design.

An operating permit is required for use of this onsite system. After the system has been constructed, your Installer must properly register the system (submit completed form and fees) and your engineer must submit the construction completion card to the Department. A permit checklist, system registration form for a Title 124 permit system, and Engineer's notification of construction completion form have been enclosed to assist you with this process. Additionally, copies have been sent to your engineer. Once the system registration has been submitted by your Installer and the notification of construction completion submitted by your Engineer, the Department will evaluate for compliance and issue an operating permit if all regulatory requirements have been met.

Documents describing the above-referenced project have been approved and stamped accordingly. Pursuant to Neb. Rev. Stat. Sec. §81-1506(2)(Reissue 1987) and the requirements found in Nebraska Administrative Code Title 124, a permit for construction (enclosed) is hereby granted. This construction permit expires one year from the date of issuance. You may request renewal (subject to any changes in regulations and Department approval) prior to expiration.

20180094402

Three sets of documents were submitted as part of the Title 124 permit application. One set of documents has been retained for the public record. The remaining documents are being returned to the submitting engineer for distribution.

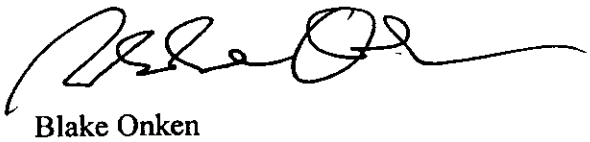
The treatment system must be installed and serviced by an NDEQ certified onsite wastewater professional, who is also authorized by the manufacturer to install and service the treatment equipment. Once the manufacturer's warranty has expired on the treatment equipment, you are required to keep a Service/Maintenance contract with a certified professional for the life of the equipment.

Compliance with minimum sanitary engineering design criteria was the only consideration in the review of this project. Items such as quality of material, electrical and mechanical design features and structural soundness, were not considered unless specifically noted in the review comments. This approval does not release you, the owner, from your responsibility to provide an operable facility.

Local zoning, siting or building code requirements are separate from and in addition to the requirements found in the Nebraska Administrative Code administered by the Department. Please continue to work with local officials to ensure any local requirements are met.

If you have any questions please contact David Lathrop at david.lathrop@nebraska.gov or (402) 471-4252.

Sincerely,



Blake Onken
Onsite Section Supervisor

Enclosures: Owner Checklist, Permit Registration, and Engineer Construction Completion

BO/dll

Cc: Tim Gergen, P.E., The Enersen Partners, 1010 Lincoln Mall, #200, Lincoln, NE 68508 – w/ e/c
Nate Hartman, Lincoln-Lancaster County Health Department, 3140 N Street, Lincoln, NE 68510

COPY

Nebraska Department of Environmental Quality

Construction Permit No. 18OWT023

is hereby issued to

Gary Bollinger

for the

500 Gallon/Day Onsite Wastewater Treatment System Alternative Design System

Description:

The onsite wastewater treatment system consists of a 1500 gallon septic tank, 1000 gallon MircoFAST 0.625 treatment tank, and 3000 sq. ft. bed absorption field with reserve area having a perm test 240 min/in percolation rate. The microFast system reduces SF requirements of drain field by 30%. The SF calculation uses 800 SF per bedroom with four bedrooms based on 120 to 240 mpi July 25, 2005 letter. Since the perm tests are not directly in drain field area, worst case scenario of 240 mpi used instead of average of four tests that resulted in 180 mpi.

located at

10201 Ricky Rd, Lincoln, NE 68516

Pursuant to a Delegation Memorandum dated August 22, 2016, and signed by the Director, the undersigned hereby executes this document on behalf of the Director.

Signed 9/14/18

Shelley Schneider

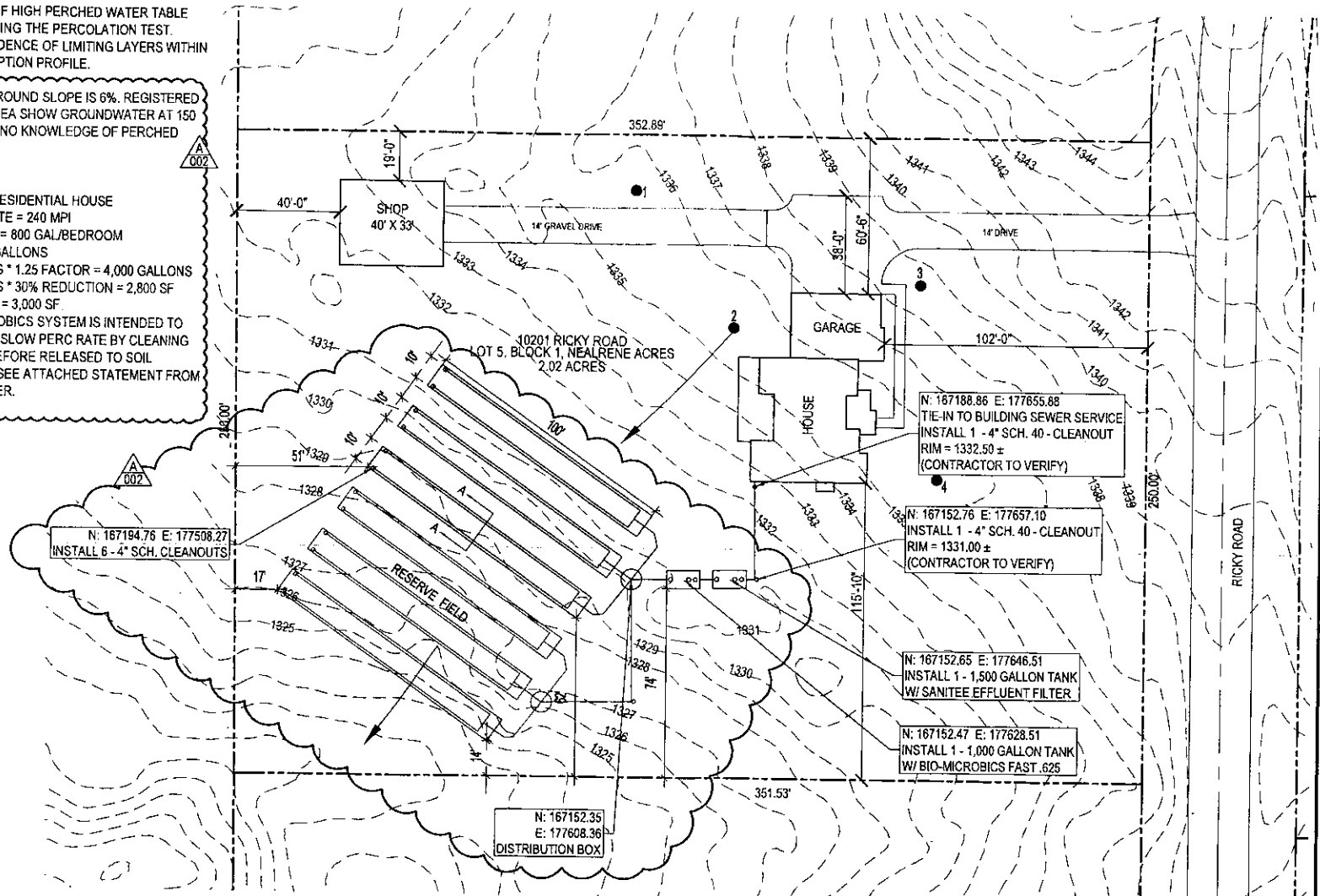
Shelley Schneider, Water Permits Division Administrator

Suite 400, The Atrium, 1200 "N" Street, P. O. Box 98922, Lincoln, Nebraska, 68509-8922
Phone (402) 471-2186, Fax (402) 471-2909, e-mail Pubinfo@mail.deq.state.ne.us

20180054467

NOTES

1. NO INDICATION OF HIGH PERCHED WATER TABLE WAS FOUND DURING THE PERCOLATION TEST. THERE IS NO EVIDENCE OF LIMITING LAYERS WITHIN THE SOIL ABSORPTION PROFILE.
2. THE MAXIMUM GROUND SLOPE IS 6%. REGISTERED WELLS IN THE AREA SHOW GROUNDWATER AT 150 FEET DEEP WITH NO KNOWLEDGE OF PERCHED GROUNDWATER. (A 002)
3. DESIGN BASIS:
   - A. 4 BEDROOM RESIDENTIAL HOUSE
   - B. AVE. PERC RATE = 240 MPI
   - C. DESIGN FLOW = 800 GAL/BEDROOM
     800*4 = 3,200 GALLONS
     3,200 GALLONS * 1.25 FACTOR = 4,000 GALLONS
     4,000 GALLONS * 30% REDUCTION = 2,800 SF
   - D. SOIL BED SIZE = 3,000 SF.
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SITE PLAN

SCALE: 1"=40'-0"

LEGEND

- DIRECTION OF GROUNDWATER FLOW
- PROPERTY LINE
- PERC TEST LOCATION

The Clark Enersen Partners

Architecture
Landscape Architecture
Engineering
Interiors

www.clarkenersen.com

Lincoln, Nebraska
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508-2883
402.477.9291 Fax 402.477.6542

Kansas City, Missouri
Fairway, Kansas

PROFESSIONAL CIVIL ENGINEER
TIMOTHY S. GERGEN
E-10344
STATE OF NEBRASKA

#		SHEET HISTORY:
ISSUED	06/29/2018	AS PER CONSTR. DOCUMENTS
A-001	08/16/2018	PERMIT COMMENT REVISIONS
A-002	09/06/2018	PERMIT COMMENT REVISIONS

Gary Bollinger Residence
10201 Ricky Road / 10195 Ricky Rd
Lincoln, NE
TCEP No.: 007-016-14

June 29, 2018

Site Plan

C1.01

NEBRASKA

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DEPT. OF ENVIRONMENTAL QUALITY

SEP 14 2018

Pete Ricketts, Governor

Gary Bollinger
10201 Ricky Rd
Lincoln, NE 68516

RE: 10201 Ricky Rd, Lincoln, NE 68516 changed to 10195 Ricky Rd
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40.7091670, -96.6393230, Lancaster County
NDEQ ID: **111499**
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Sincerely,

Blake Onken
Onsite Section Supervisor

Enclosures: Owner Checklist, Permit Registration, and Engineer Construction Completion

BO/dll

Cc: Tim Gergen, P.E., The Enersen Partners, 1010 Lincoln Mall, #200, Lincoln, NE 68508 – w/ e/c
Nate Hartman, Lincoln-Lancaster County Health Department, 3140 N Street, Lincoln, NE 68510

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. HS001744

System Type: Non-Standard

Situs: 10195 RICKY RD, LINCOLN, NE 68516

Issued: 10/2/2018

Expires: 10/2/2019

Description: NEALRENE ACRES, BLOCK 1, Lot 5

Owner: BOLLINGER, GARY & KATHY S
10101 WEEKS DR
LINCOLN, NE 68516

Shavonna M. Lausterer, MPH, CPH, 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.

Shavonna M. Lausterer, MPH, CPH
Health Director

GARY BOLLINGER
10101 WEEKS DR
LINCOLN, NE 68516

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

D

Permit Number: HS001744

Onsite Wastewater Treatment System
As-Built Description and Drawing

Type of Onsite Wastewater System: ☐ Lagoon (Skip to Back Page) ☒ Subsurface Septic ☐ Mound

Onsite Wastewater System Location

Address or Legal Description or Parcel Identification Number (PID) 16-33-100-040-000

Owner: GARY BOLLINGER Address 10195 RICKY RD, LINCOLN NE 685165

A. Wastewater Piping

1. Material: SCH 40 PVC Diameter: 4 in.
2. Distance between dwelling and septic tank: _____ ft.

B. Septic Tank

1. Material PLASTIC
2. Capacity: 1500
3. Depth to top of tank, below unfinished grade: 18 in.
4. Distance to:
   Well 60 ft.
   Pressure line 50 ft
   Property Line +50 ft.
   Foundation 60 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: 33 ft. W

D. Drainfield/Absorption Field

☐ Trench ☑ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☐ Other
   Material brand and inside width of Chamberless:
   TIRE CHIPS IN (3) 10 ' X 100' BEDS
2. Number of Laterals: 3
3. Length of each lataral (linear): ft. 100 ft. 100 ft. 100 ft. _____
4. Drainfield size: 3000 sq. ft.
5. Distance to:
   Well 105 ft.
   Pressure line +25 ft.
   Property line +50 ft.
   Depth of Groundwater +12

Was the Onsite Wastewater System covered prior to LLCHD inspection? ☒ Yes ☐ No

If Yes, the Certified Professional must sign below for final approval:

I swear and affirm that the system complies with Lincoln Municipal Code (LMC) 24.38 and/or County Resolution R-13-0062 requirements and that the information and documentation submitted are true and accurate.

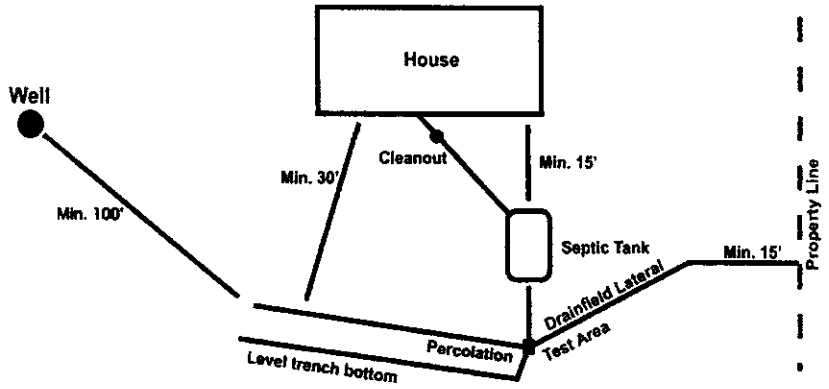
Certified Professional Signature: _____ Date: 6/17/19

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

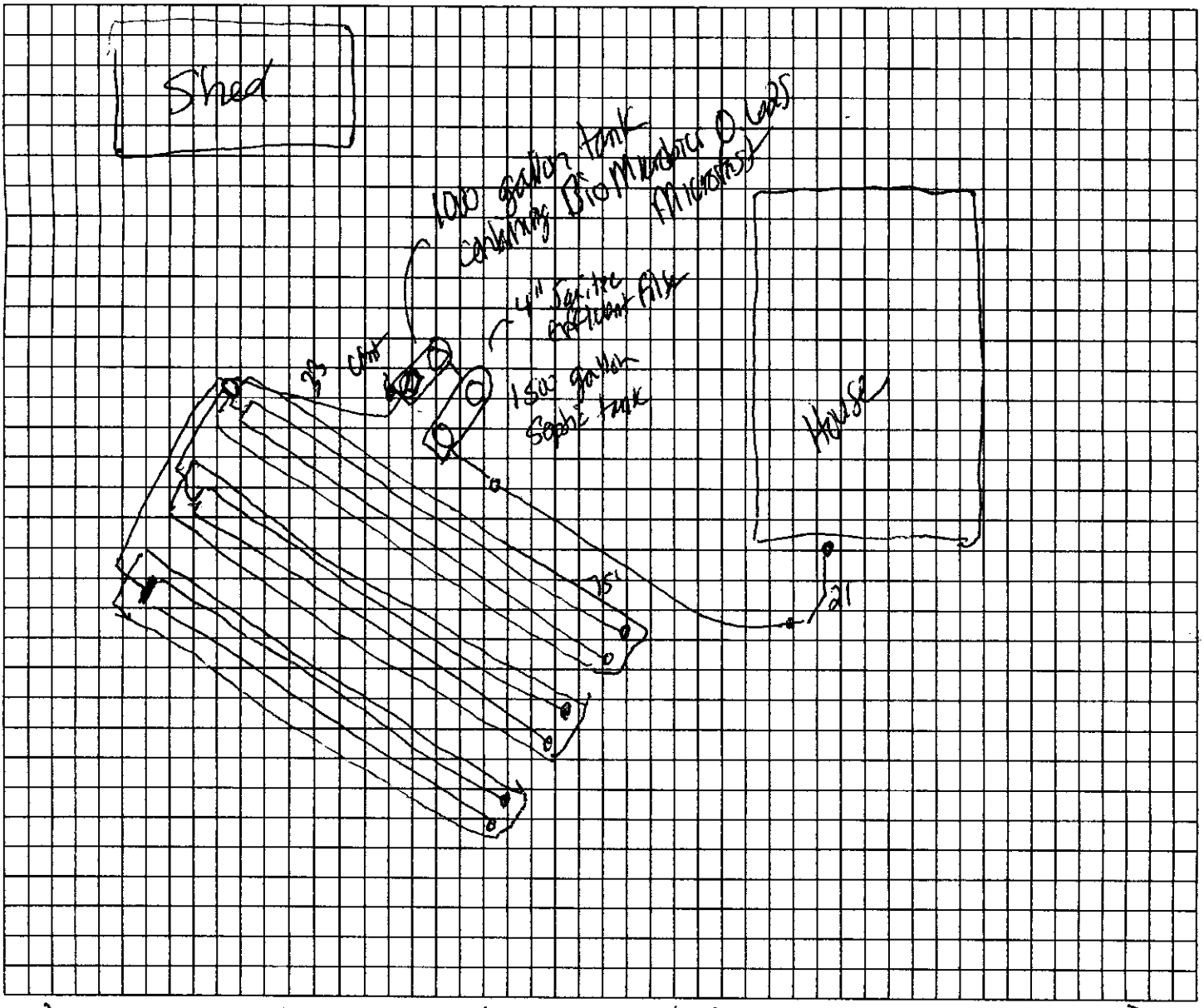
Onsite Wastewater System Design (Example)

Indicate North
w/ Arrow Here:





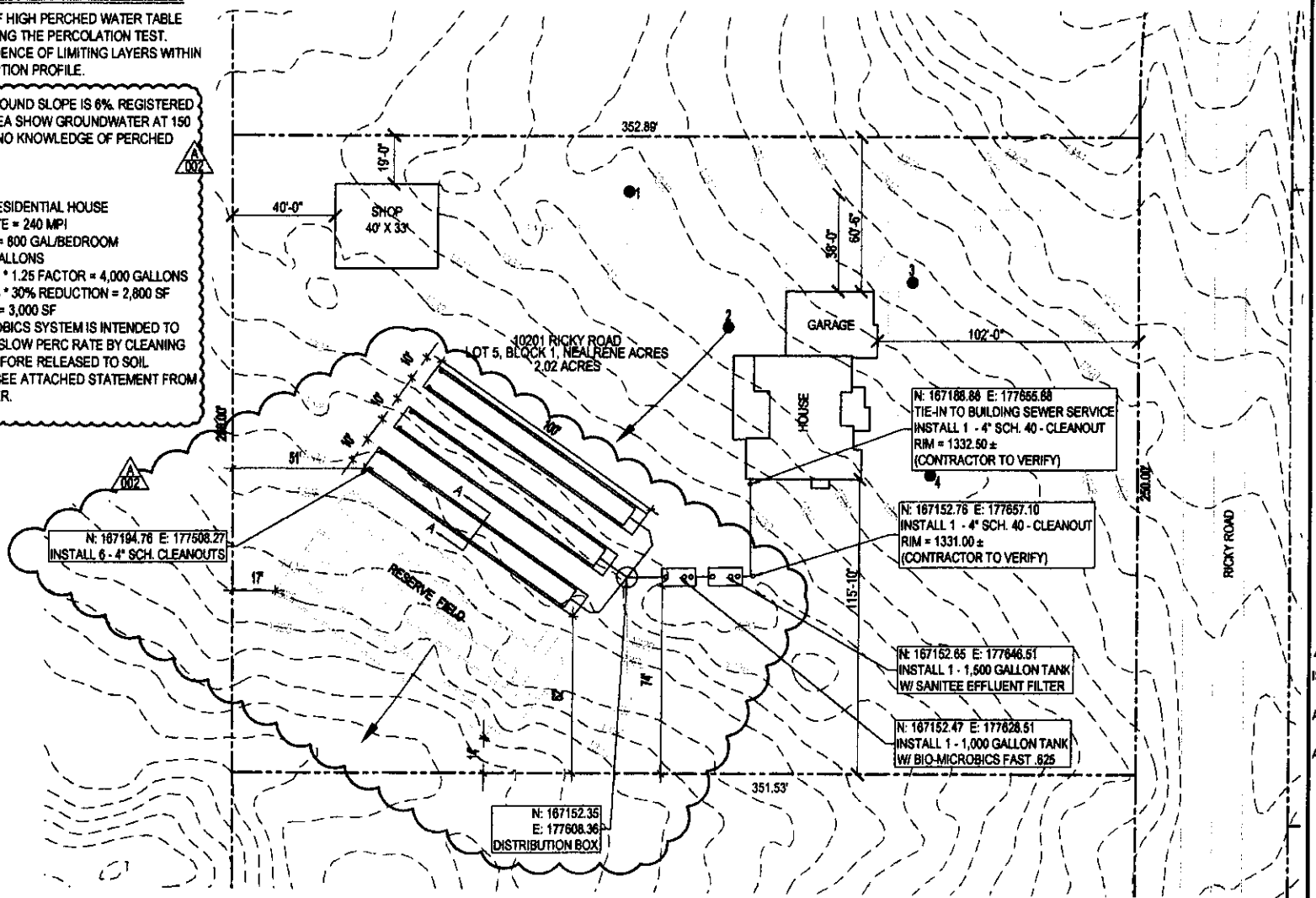
*Note-If Lagoon, show all applicable dimensions



(3) 10' x 100' beds with perforated pipes 2½' from sidewalls in five chip beds

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SITE PLAN

SCALE: 1"=40'-0"

LEGEND

- DIRECTION OF GROUNDWATER FLOW
- PROPERTY LINE
- PERC TEST LOCATION

The Clark Enersen Partners

Architecture
Landscape Architecture
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Lincoln, NE 68508-2883
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Kansas City, Missouri
Fairway, Kansas

PROFESSIONAL CIVIL ENGINEER
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Gary Bollinger Residence
10201 Ricky Road
Lincoln, NE
TCEP No.: 007-016-14

June 29, 2018

Site Plan

C1.01

Nebraska Department of Environmental Quality

Construction Permit No. 18OWT023

is hereby issued to

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for the

500 Gallon/Day Onsite Wastewater Treatment System Alternative Design System

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located at

10195 Ricky Rd, Lincoln, NE 68516

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Signed 10/2/18

Shelley Schneider

Shelley Schneider, Water Permits Division Administrator

Suite 400, The Atrium, 1200 "N" Street, P. O. Box 98922, Lincoln, Nebraska, 68509-8922
Phone (402) 471-2186, Fax (402) 471-2909, e-mail Pubinfo@mail.deq.state.ne.us

Southwick
Liquid Waste

ADVANCED TREATMENT DESIGN
w/Perforated Pipe laterals in Tire Chip beds
Bio-Microbics MicroFAST .625

Gary Bollinger Residence

10201 Ricky Road
Lincoln, 68516

Lancaster County
Nealrene Acres
Block 1, Lot 5
2.02 acres

Southwick Liquid Waste
105 Locust Street P.O. Box 191
Hickman, NE 68372

402-475-2462

Email: southwicksewer@yahoo.com

June 2018

BOLLINGER RESIDENCE ATU w/perforated pipe lateral with tire chips

June 2018

Peak Daily Design 4 bedroom – 500 GPD

Soil Issues

Proposed site consists of Wymore Silty Clay Loam
Failed soil percolation test

Treatment Use Bio-Microbics MicroFAST 0.625 treatment system
Perforated pipe laterals in tire chips
**Contractor to provide first 2 years of service
**Homeowner to maintain service contract to insure proper function of system over time

Septic Tank Sizing

(1) 1,500 gallon Infiltrator septic tank acting as a settling tank
(1) 1,000 gallon Infiltrator septic tank containing Bio-Microbics MicroFAST 0.625