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

A

Permit Number
HS001208

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* 11211 Aspen Canyon Rd City Lincoln, NE Zip
(no rural route)

Legal Description Wispering Creek 3 1

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

PID 22-18-203-001-000 SB *Approx. Address (If to be determined)

B. Owner

Name Brian Schwaneback Signature

Address City/State/Zip

Home Phone Work Phone

C. Certified Installer

Name: Kelly Wolinski Signature

Address 462 E10 0561 City/State/Zip Lincoln NE 68506

Work Phone 434 2400

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 5 Whirlpool Bathtub? ☑ Yes ☐ No Total Acres 3.7
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 3-8-16 Amount Paid $385.00
Received By SB Cash/Check No. 54342

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

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

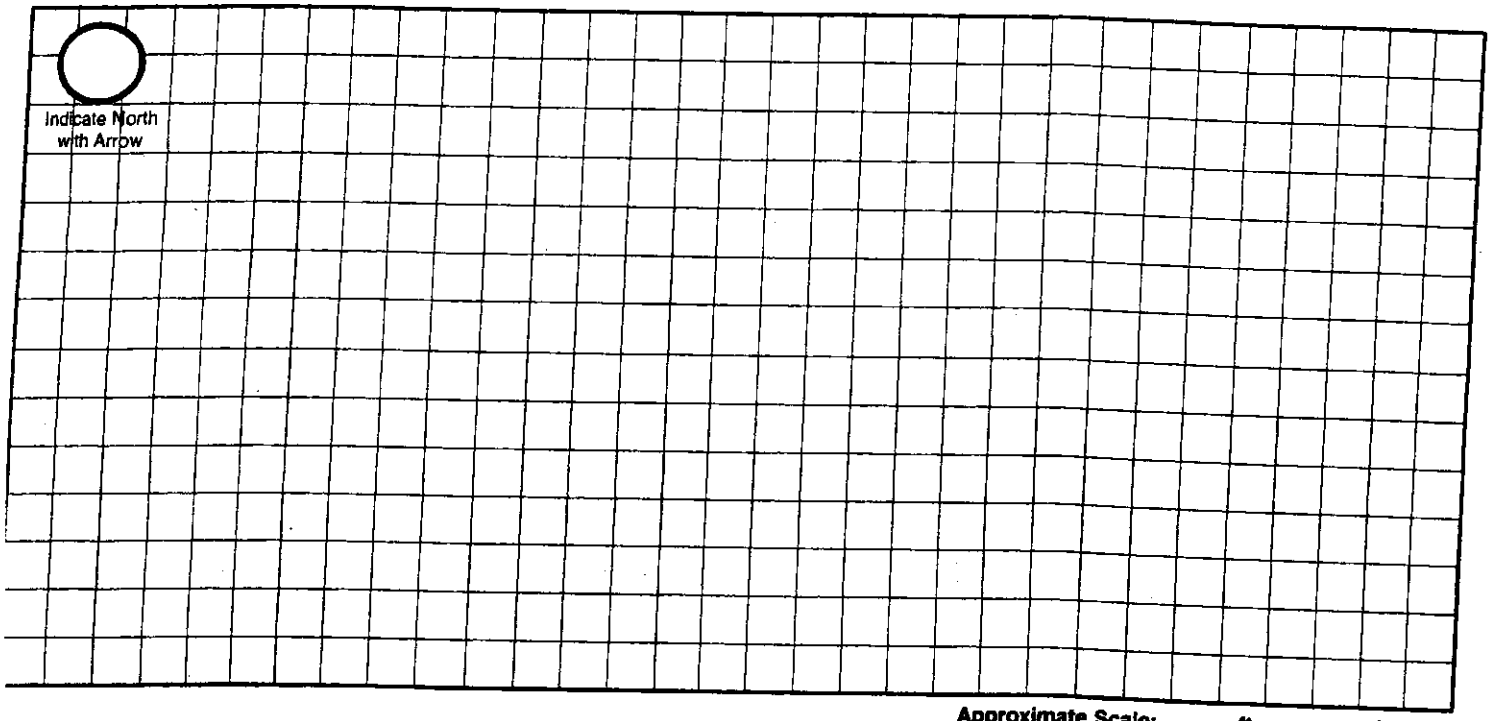
C

Permit Number: HS001208

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ft. = _____ grid line/s

A. Onsite System Location

Address (no rural route) 1121 Aspen Canyon Rd City Lincoln NE, Zip NE

B. Proposed Septic Tank/s

Septic Tank Cap._____ gals Tank Material: ❑ Concrete ❑ Plastic ❑ Other_____ ❑ Lagoon(Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

❑ Drainfield Absorption Area (percoloation test required) ✓ Lagoon

D. Drainfield Absorption System

Percolation Rate____ (min/inch = mpi) No. of Bedrooms_____ Soil Type_____ Land Slope_____%

❑ Trench ❑ Bed ❑ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield_____sq.ft.

Total length of laterals_____ Type of distribution: ❑ Perforated pipe ❑ Half-Round ❑ Chamber ❑ Other

No. of absorption trenches_____ Width_____ No. of drop boxes_____ Distrubtion Box_____

No. of absorption beds_____ Width_____ No of Distribution lines per bed_____

E. 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 ❑	❑
agoon (ft)	100 ❑	500 ❑	50 ❑	N/A ❑	30 ❑	50 ❑	100 ❑	200 ❑	❑

. Required Signatures

ome Building Contractor _____ Date _____

staller Kelly Wetzel Date 3-8-16

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS001208

System Type: Lagoon

Situs: 11277 ASPEN CANYON RD, RURAL, NE

Issued: 3/9/2016

Expires: 3/9/2017

Description: WHISPERING CREEK ADDITION, BLOCK 3, Lot 1

Owner: SCHWANEBECK, BRIAN L &
ALEXANDRA A TRUST
5920 S 78 ST
LINCOLN, NE 68516

Judith A Halstead
Judith A. Halstead, MS, 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.

Judith A Halstead
Judith A. Halstead, MS
Health Director

WELMANN PLUMBING INC
3130 S 6TH ST #100
LINCOLN, NE 68502

9-8-18
4 S001208

COPY

STATE OF NEBRASKA

Pete Ricketts
Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY
Jim Macy
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402)471-2909
website: http://deq.ne.gov

OCT 27 2016

Brian Schwanebeck
11277 Aspen Canyon Road
Lincoln, NE 68526

RE: Operating Permit No. **16OWT030**
Onsite Wastewater Treatment System – Mound System
S ½, Sec. 18, T09N, R08E, Lancaster County
NDEQ ID: **108096**
Program ID: **16OWT030**

Dear Mr. Schwanebeck:

The Department has received the Notification of Construction Completion verifying that construction of the referenced onsite wastewater system has been completed in compliance with the approved plans and specifications and the system has been registered. Pursuant to Neb. Rev. Stat. Sec. §81-1506(2)(Reissue 1987), an operating permit for the system (enclosed) is hereby granted.

This Operating Permit is issued under the condition that the operation of the system be in compliance with NDEQ's Title 124 - Rules and Regulations for the Design, Operation and Maintenance of On-site Wastewater Treatment Systems.

Should ownership of the referenced Onsite Wastewater Treatment system change, NDEQ Title 124, Chapter 3, Section 007 provides that the transfer of ownership of a permitted system shall automatically authorize the new owner to operate under the existing permit. Subsequent permit holders are under the same obligations and conditions as the original permittee. The Department shall be notified of the transfer of ownership and given the name and address of the new owner.

If you have any questions please contact me at 402-471-8283 or mark.bauer @nebraska.gov.

Sincerely,

Shelley Schneider for

Mark Bauer, P.E.
Supervisor, Onsite Unit
Water Quality Division

cc: Jeremy Williams, P.E.
John Chess, LLCHD



Nebraska Department of Environmental Quality

Operating Permit No. 16OWT030

is hereby issued to

Brian Schwanebeck

Based upon the notification of construction completion dated October 26, 2016 from Jeremy Williams, P.E. and the system registration (TS30179) submitted by Jason Kubik (C2040)

600 Gallons per Day Onsite Wastewater Treatment Mound System

Description:

System includes a new 1,500 gallon septic tank with an effluent filter and a new 1,000 gallon pump tank. The mound soil absorption system contains a rock bed area of 62.25 feet by 8 feet, with two 1.5 inch distribution pipes each 61 feet in length, with 1/4 inch orifices at 35 inch spacing. Total mound area at base shall be at least 77.9 feet by 27.8 feet, with a rock bed thickness of at least 12 inches, to be constructed on a 12" thick sand layer.

located at

11277 Aspen Canyon Road, Lincoln, NE
S ½, Sec. 18, T09N, R08E, Lancaster County

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 10/27/16

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

20160062665

Exhibit 5

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

OK 11/9/16

Permit Number: H5001208

Onsite Wastewater Treatment System

Inspection Sheet

Date 11/4/16

Legal Description T9N, R8E, Sec 18 Blk 3, Lot 1
¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) 11277 Aspen Canyon 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: N/O

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

Total square feet of drainfield _____ Sq. Ft. Tank Size _____ 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: System was called upon inspection - arrived after system covered - approved for cover

Field Note Drawing (See Reverse Side):

Inspections prior to Final Approval
Initial 11/7/16 Date NH

Follow-Up _____ Date _____

Follow-Up _____ Date _____

~~Installation Final Written Approval~~
By _____

Date 11/4/16

Updated 4/15

Onsite Wastewater Treatment System
As-Built Description and Drawing

1600T030

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) 22-18-203

Owner: Brian Schwarzbeck Address 11277 Aspen Canyon Rd

A. Wastewater Piping

1. Material: SCH 40 PVC Diameter: 4 in.
2. Distance between dwelling and septic tank: 150 ft.

B. Septic Tank

1. Material Concrete
2. Capacity: 1500
3. Depth to top of tank, below unfinished grade: 15 in.
4. Distance to:
   - Well NA ft.
   - Pressure line 27 ft
   - Property Line 50 ft.
   - Foundation 150 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: N/A ft. ____

D. Drainfield/Absorption Field

☐ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☒ Other

   Material brand and inside width of Chamberless: _____
2. Number of Laterals: _____
3. Length of each lateral (linear): ft._____ ft._____ ft._____ ft._____
4. Drainfield size: _____ sq. ft.
5. Distance to:
   - Well _____ ft.
   - Pressure line _____ ft.
   - Property line _____ ft.
   - Depth of Groundwater _____

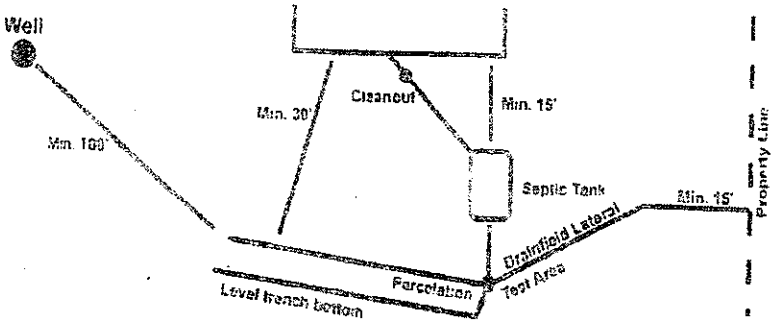
Was the Onsite Wastewater System covered prior to LLCHD inspection? ☒ Yes ☐ No

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

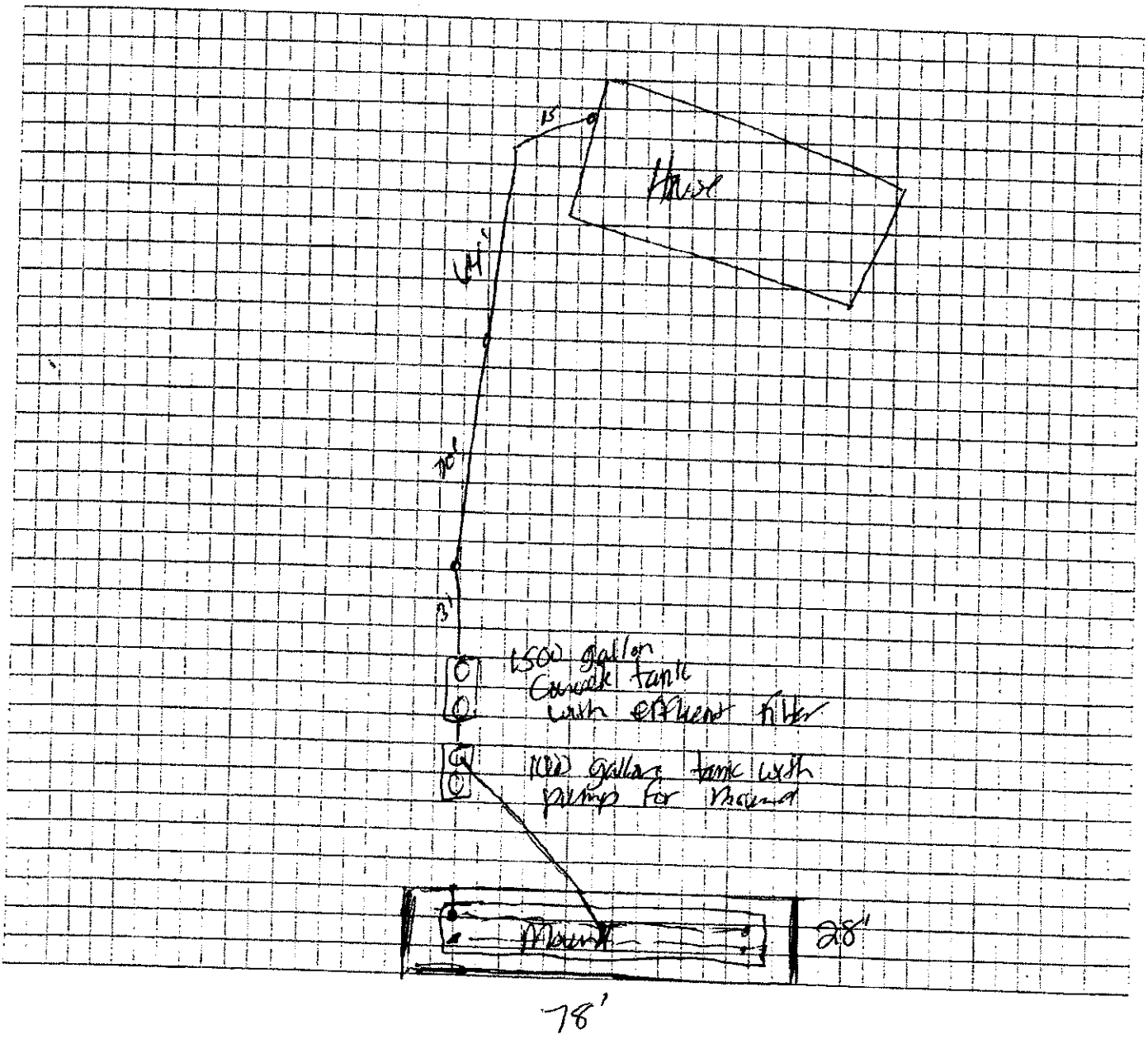
I swear and affirm that the system complies with Lincoln Municipal Code (LMC) 24.38 and/or County Resolution R-13-0062 requirements and that the information and documentation submitted are true and accurate.

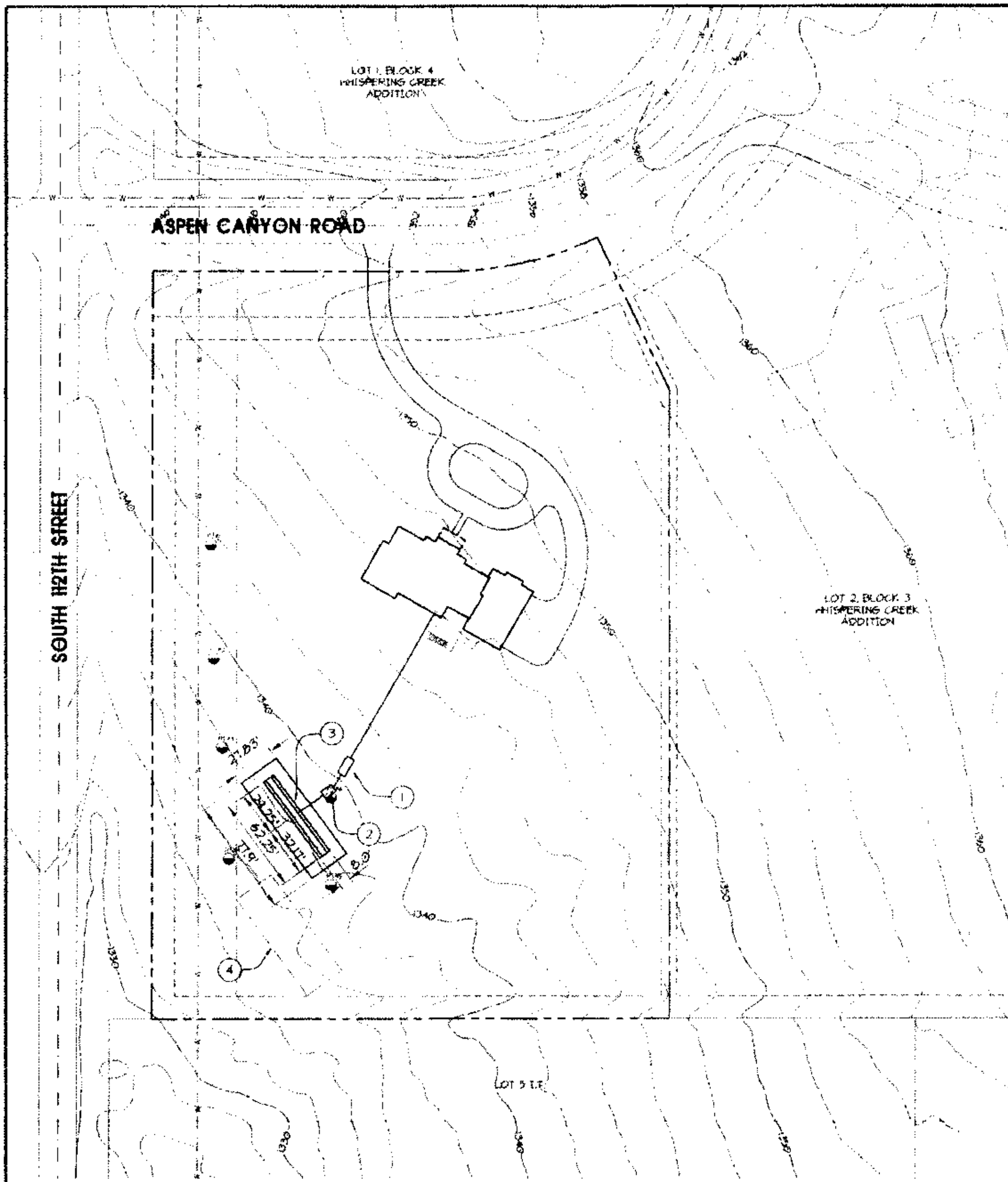
Certified Professional Signature: _____ Date: 10/3/16

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



*Note-If Lagoon, show all applicable dimensions





SITE PLAN
SCALE: 1" = 50'

DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG. CALL 1-800-331-5666 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE TELEVISION, AND CITY UTILITIES.

LEGAL DESCRIPTION:

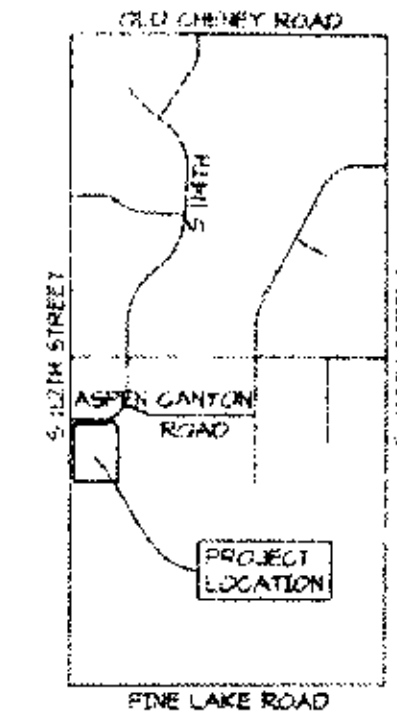
LOT 1, BLOCK 3
WHISPERING CREEK ADDITION
S 1/2 SECTION 18 T9N R8E
LINCOLN, LANCASTER COUNTY NEBRASKA

ADDRESS:

11277 ASPEN CANYON ROAD

SOIL TYPE:

SHARPSBURG SILTY CLAY LOAM (ShD)



VICINITY MAP
NOT TO SCALE

CONSTRUCTION NOTES

(1) INSTALL NEW 1500 GALLON SEPTIC TANK W/ EFFLUENT FILTER

(2) INSTALL 1000 GALLON DOSING TANK, SEE DETAIL

(3) MOUND DISTRIBUTION CELL, SEE DETAIL

(4) BACKUP REPLACEMENT AREA FOR FUTURE MOUND DISTRIBUTION CELL

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO TITLE 124 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY, RULES AND REGULATIONS FOR THE DESIGN, OPERATIONS AND MAINTENANCE OF WASTEWATER ON-SITE WASTEWATER TREATMENT SYSTEMS.

2. THE ON-SITE WASTEWATER TREATMENT SYSTEM SHALL BE INSTALLED BY A CERTIFIED ON-SITE WASTEWATER PROFESSIONAL.

3. ALL GRAVITY DISTRIBUTION LINES SHALL BE 4" PVC, SCHEDULE 40 AND SHALL HAVE A GRADE OF NOT LESS THAN 1/8" PER FOOT. ALL LINES SHALL BE EQUIPPED WITH CLEAN-OUTS WITH TIGHT FITTING CAPS, AT EVERY SEVENTY-FIVE FEET OR LESS, OR WHERE ANGLES GREATER THAN 45 DEGREES ARE ENCOUNTERED

4. ALL PRESSURE DISTRIBUTION LINES SHALL BE PVC, SDR-26 OR APPROVED EQUIVALENT.

5. DOSING PUMP SHALL BE A ZOELLER MODEL 266 OR APPROVED EQUIVALENT PUMP SHALL BE RATED FOR 45 GPM AND 13.5 TOTAL DYNAMIC HEAD.

6. THE EFFLUENT FILTER IN THE SEPTIC TANK SHALL HAVE MAXIMUM OPENINGS OF ONE-SIXTEENTH INCH.

7. THE PUMP CONTROL PANEL SHALL INCLUDE EXTERNALLY MOUNTED VISIBLE AND AUDIBLE ALARMS.

8. THE PUMP ELECTRICAL POWER SHALL BE PROVIDED ON A SEPARATE ELECTRICAL CIRCUIT THAT THAT OF THE ALARM SYSTEM.

9. THE PUMP SHALL BE REMOVABLE, AND THE LEVEL CONTROL AND ALARM SWITCHES SHALL BE LOCATED WHERE THEY ARE VISIBLE FROM THE GROUND AND ACCESSIBLE FOR CLEANING AND ADJUSTMENT WITHOUT REQUIRING HUMAN ENTRY INTO THE DOSING TANK.

10. IT IS RECOMMENDED THAT A WATER METER BE INSTALLED ON THE WATER SUPPLY LINE SO THAT THE OWNER CAN MONITOR WATER USAGE AND ENSURE THAT NO MORE THAN 750 GALLONS PER DAY IS BEING USED.

PROFESSIONAL CIVIL ENGINEER
JEREMY J. WILLIAMS
E-10532
STATE OF NEBRASKA

11277 ASPEN CANYON ROAD

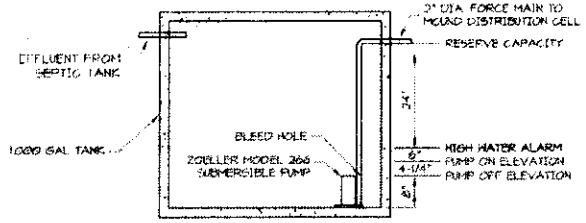
ON-SITE WASTEWATER TREATMENT SYSTEM
LINCOLN, NEBRASKA

8 JUL 2016

SITE PLAN

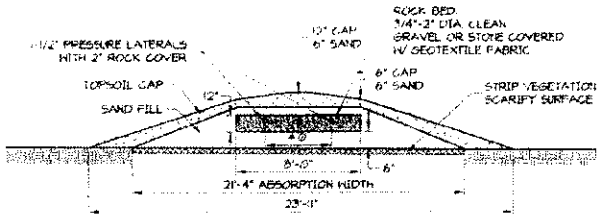
Design Associates of Lincoln, Inc.
ARCHITECTS • ENGINEERS • PLANNERS
PERSHING SQUARE 1609 "N" STREET LINCOLN NEBRASKA 68508
Voice:402-474-3000 office@DAofLincoln.com Fax:402-474-4045

C-1



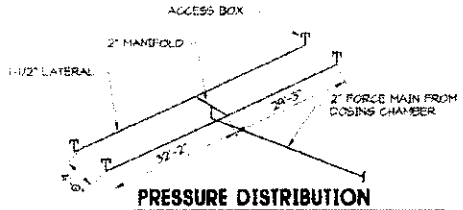
DOSING CHAMBER

SCALE: 1" = 3'



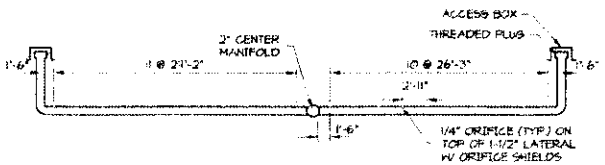
MOUND CROSS SECTION

SCALE: 1" = 5'



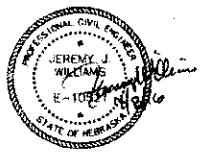
PRESSURE DISTRIBUTION

SCALE: 1" = 20'



1-1/2" LATERAL

SCALE: 1" = 10'



18 JUL 2016

11277 ASPEN CANYON ROAD

ON-SITE WASTEWATER TREATMENT SYSTEM

LINCOLN, NEBRASKA

DETAILS

Design Associates

C-2

COPY

SEP 16 2016

STATE OF NEBRASKA

Pete Ricketts
Governor

SEP 9 2016

DEPARTMENT OF ENVIRONMENTAL QUALITY
Jim Macy
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402)471-2909
website: http://deq.ne.gov

Brian Schwanebeck
11277 Aspen Canyon Road
Lincoln, NE 68526

RE: Construction Permit No. **16OWT030**
Onsite Wastewater Treatment System – Mound System
S ½, Sec. 18, T09N, R08E, Lancaster County
NDEQ ID: **108096**
Program ID: **16OWT030**

Dear Mr. Schwanebeck:

Construction shall be as described in the approved documents. It is your responsibility to make sure the facility is built as approved and all regulatory requirements met. 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.

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.

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 Mark Bauer in the NDEQ Onsite Unit at mark.bauer@nebraska.gov or (402) 471-8283.

Sincerely,

Shelley Schneider
Water Permits Division Administrator

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

SS/mb
Cc: Jeremy Williams, DesignAssociates of Lincoln, Inc., 1609 N Street, Lincoln, NE 68508
Nate Hartman, LLCHD, 3140 N Street, Lincoln, NE 68510

Nebraska Department of Environmental Quality

Construction Permit No. 16OWT030

is hereby issued to

Brian Schwanebeck

for the

600 Gallons per Day Onsite Wastewater Treatment Mound System

Description:

System includes a new 1,500 gallon septic tank with an effluent filter and a new 1,000 gallon pump tank. The mound soil absorption system contains a rock bed area of 62.25 feet by 8 feet, with two 1.5 inch distribution pipes each 61 feet in length, with 1/4 inch orifices at 35 inch spacing. Total mound area at base shall be at least 77.9 feet by 27.8 feet, with a rock bed thickness of at least 12 inches, to be constructed on a 12" thick sand layer.

located at

11277 Aspen Canyon Road, Lincoln, NE
S ½, Sec. 18, T09N, R08E, Lancaster County

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 9/9/16

Shelley Schneider

Shelley Schneider, Water Permits Division Administrator

2016005205O

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

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

A

Permit Number
HS001208

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* 11211 Aspen Canyon Rd City Lincoln, NE Zip 68526 SB
(no rural route)

Legal Description 18 9 8 SB Wispering Creek 3 1
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 22-18-203-001-000 SB *Approx. Address (If to be determined)

B. Owner

Name Brian Schwanebeck Signature

Address City/State/Zip

Home Phone Work Phone

C. Certified Installer

Name: Kelly Wolinski Signature

Address 402 610 0561 City/State/Zip Lincoln NE 68506

Work Phone 434 2400

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 5 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3.78 pH
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 3/4/16
Date frwd 3/9/16
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd 3-9-16
Date frwd 3-9-16
ACTION ☒ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments
Date rec'd 3-8-16
Date frwd 3-8-16
ACTION ☒ Approved ☐ Disapproved
Signature Jim Plouzek

Installation Final Written Approval
By
Date 11/4/16

Business Office Use Only
Date Received 3-8-16 Amount Paid $385.00
Received By SB Cash/Check No. 54342

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

Nebraska Department of Environmental Quality

Construction Permit No. 16OWT030

is hereby issued to

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for the

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located at

11277 Aspen Canyon Road, Lincoln, NE
S ½, Sec. 18, T09N, R08E, Lancaster County

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Signed 9/9/16

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

Nebraska Department of Environmental Quality

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is hereby issued to

Brian Schwanebeck

Based upon the notification of construction completion dated October 26, 2016 from Jeremy Williams, P.E. and the system registration (TS30179) submitted by Jason Kubik (C2040)

600 Gallons per Day Onsite Wastewater Treatment Mound System

Description:

System includes a new 1,500 gallon septic tank with an effluent filter and a new 1,000 gallon pump tank. The mound soil absorption system contains a rock bed area of 62.25 feet by 8 feet, with two 1.5 inch distribution pipes each 61 feet in length, with 1/4 inch orifices at 35 inch spacing. Total mound area at base shall be at least 77.9 feet by 27.8 feet, with a rock bed thickness of at least 12 inches, to be constructed on a 12" thick sand layer.

located at

11277 Aspen Canyon Road, Lincoln, NE
S ½, Sec. 18, T09N, R08E, Lancaster County

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 10/27/16

Shelley Schneider

Shelley Schneider, Water Permits Division Administrator

20160062665

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

SCANNED

C

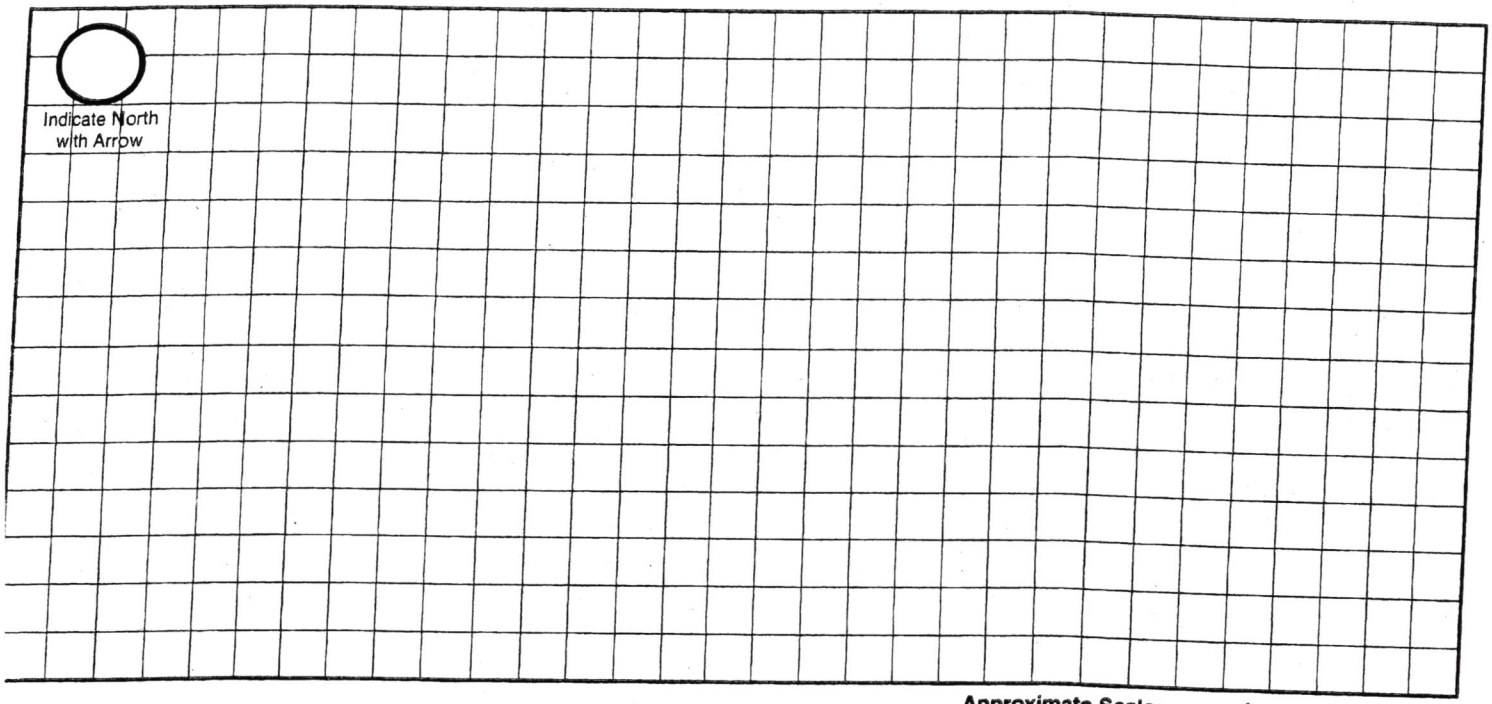
Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

Permit Number: HS001208

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ft. = _____ grid line/s

A. Onsite System Location

Address (no rural route) 11211 Aspen Canyon Rd City Lincoln NE, Zip NE

B. Proposed Septic Tank/s

Septic Tank Cap._____ gals Tank Material: ❑ Concrete ❑ Plastic ❑ Other_____ ❑ Lagoon(Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

❑ Drainfield Absorption Area (percoloation test required) ☒ Lagoon

D. Drainfield Absorption System

Percolation Rate_____ (min/inch = mpi) No. of Bedrooms_____ Soil Type_____ Land Slope_____%

❑ Trench ❑ Bed ❑ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield_____sq.ft.

Total length of laterals_____ Type of distribution: ❑ Perforated pipe ❑ Half-Round ❑ Chamber ❑ Other

No. of absorption trenches_____ Width_____ No. of drop boxes_____ Distrubtion Box_____

No. of absorption beds_____ Width_____ No of Distribution lines per bed_____

E. 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 ❑	❑
agoon (ft)	100 ❑	500 ❑	50 ❑	N/A ❑	30 ❑	50 ❑	100 ❑	200 ❑	❑

. Required Signatures

ome Building Contractor _____ Date _____

staller Kelly Stelling Date 3-8-16

Onsite Wastewater Treatment System
As-Built Description and Drawing

SCANNED

1600T030

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) 22-18-203

Owner: Brian Schwarzbeck Address 11277 Aspen Canyon Rd

A. Wastewater Piping

1. Material: SCH 40 PVC Diameter: 4 in.
2. Distance between dwelling and septic tank: 150 ft.

B. Septic Tank

1. Material Concrete
2. Capacity: 1500
3. Depth to top of tank, below unfinished grade: 18 in.
4. Distance to:
   - Well NA ft.
   - Pressure line 27 ft
   - Property Line 50 ft.
   - Foundation 150 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: N/A ft.

D. Drainfield/Absorption Field

☐ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☒ Other
   Material brand and inside width of Chamberless:
2. Number of Laterals: _____
3. Length of each lateral (linear): ft._____ ft._____ ft._____ ft._____
4. Drainfield size: _____ sq. ft.
5. Distance to:
   - Well _____ ft.
   - Pressure line _____ ft.
   - Property line _____ ft.
   - Depth of Groundwater _____

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

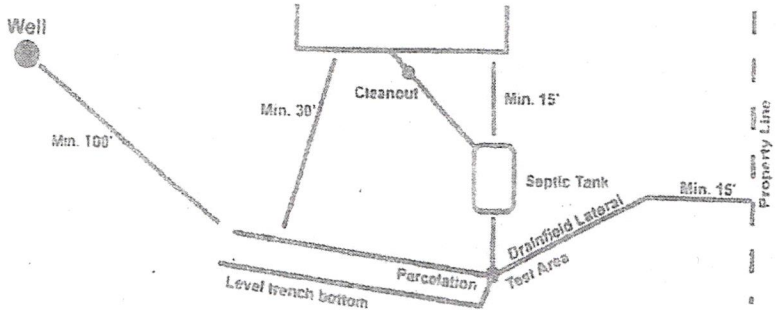
If Yes. the Certified Professional must sign below for final approval:

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: 10/3/16

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

Updated 4/15



*Note-If Lagoon, show all applicable dimensions

House

15'

44'

70'

3'

1500 gallon Concrete tank with effluent filter

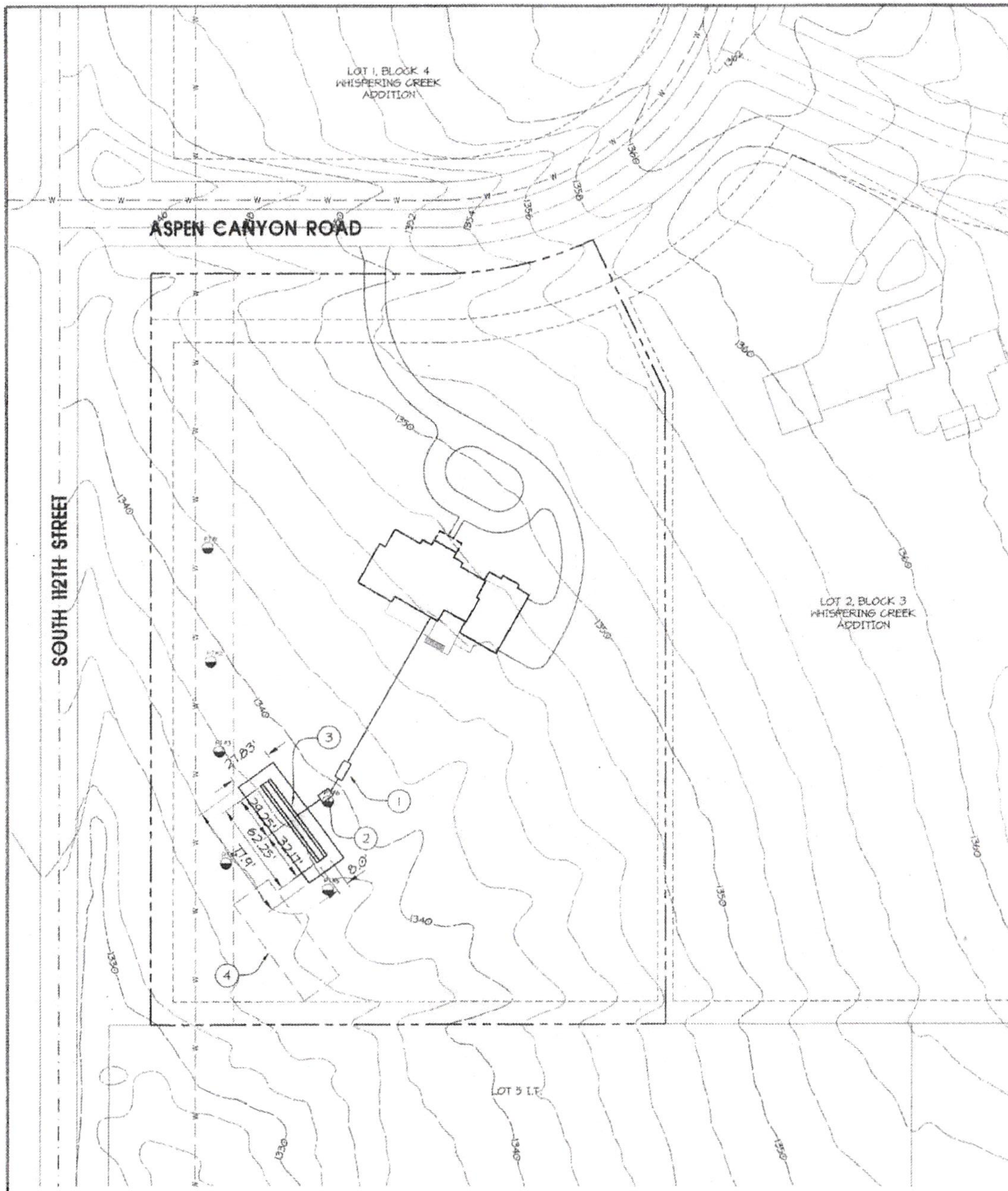
1000 gallon tank with pumps for Material

Mound

28'

78'

SCANNED



SITE PLAN
SCALE: 1" = 50'

DIAL BEFORE YOU DIG

DIAL BEFORE YOU DIG, CALL 1-800-331-5666 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE TELEVISION, AND CITY UTILITIES.

LEGAL DESCRIPTION:

LOT 1, BLOCK 3
WHISPERING CREEK ADDITION
S 1/2 SECTION 18 T9N R8E
LINCOLN, LANCASTER COUNTY, NEBRASKA

ADDRESS:

11277 ASPEN CANYON ROAD

SOIL TYPE:

SHARPSBURG SILTY CLAY LOAM (SHD)



VICINITY MAP

NOT TO SCALE

CONSTRUCTION NOTES

1. INSTALL NEW 1,500 GALLON SEPTIC TANK W/ EFFLUENT FILTER
2. INSTALL 1,000 GALLON DOSING TANK, SEE DETAIL
3. MOUND DISTRIBUTION CELL, SEE DETAIL
4. BACKUP; REPLACEMENT AREA FOR FUTURE MOUND DISTRIBUTION CELL

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO TITLE 124 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY, RULES AND REGULATIONS FOR THE DESIGN, OPERATIONS AND MAINTENANCE OF WASTEWATER ON-SITE WASTEWATER TREATMENT SYSTEMS.

2. THE ON-SITE WASTEWATER TREATMENT SYSTEM SHALL BE INSTALLED BY A CERTIFIED ON-SITE WASTEWATER PROFESSIONAL.

3. ALL GRAVITY DISTRIBUTION LINES SHALL BE 4" PVC, SCHEDULE 40 AND SHALL HAVE A GRADE OF NOT LESS THAN 1/8" PER FOOT. ALL LINES SHALL BE EQUIPPED WITH CLEAN-OUTS WITH TIGHT FITTING CAPS, AT EVERY SEVENTY-FIVE FEET OR LESS, OR WHERE ANGLES GREATER THAN 45 DEGREES ARE ENCOUNTERED.

4. ALL PRESSURE DISTRIBUTION LINES SHALL BE PVC, SDR-26 OR APPROVED EQUIVALENT.

5. DOSING PUMP SHALL BE A ZOELLER MODEL 266 OR APPROVED EQUIVALENT. PUMP SHALL BE RATED FOR 45 GPM AND 13.5 TOTAL DYNAMIC HEAD.

6. THE EFFLUENT FILTER IN THE SEPTIC TANK SHALL HAVE MAXIMUM OPENINGS OF ONE-SIXTEENTH INCH.

7. THE PUMP CONTROL PANEL SHALL INCLUDE EXTERNALLY MOUNTED VISIBLE AND AUDIBLE ALARMS.

8. THE PUMP ELECTRICAL POWER SHALL BE PROVIDED ON A SEPARATE ELECTRICAL CIRCUIT THAT THAT OF THE ALARM SYSTEM.

9. THE PUMP SHALL BE REMOVABLE, AND THE LEVEL CONTROL AND ALARM SWITCHES SHALL BE LOCATED WHERE THEY ARE VISIBLE FROM THE GROUND AND ACCESSIBLE FOR CLEANING AND ADJUSTMENT WITHOUT REQUIRING HUMAN ENTRY INTO THE DOSING TANK.

10. IT IS RECOMMENDED THAT A WATER METER BE INSTALLED ON THE WATER SUPPLY LINE SO THAT THE OWNER CAN MONITOR WATER USAGE AND ENSURE THAT NO MORE THAN 750 GALLONS PER DAY IS BEING USED.

PROFESSIONAL CIVIL ENGINEER
JEREMY J. WILLIAMS
E-10532
STATE OF NEBRASKA
7/18/16

18 JUL 2016

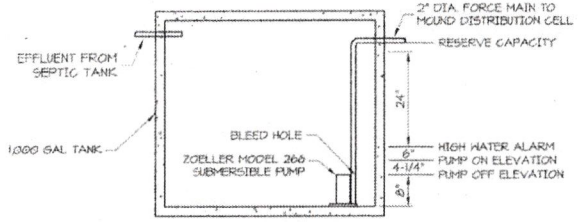
11277 ASPEN CANYON ROAD
ON-SITE WASTEWATER TREATMENT SYSTEM
LINCOLN, NEBRASKA

SITE PLAN

Design Associates of Lincoln, Inc.
ARCHITECTS • ENGINEERS • PLANNERS
PERSHING SQUARE 1609 "N" STREET LINCOLN NEBRASKA 68508
Voice:402-474-3000 office@DAofLincoln.com Fax:402-474-4045

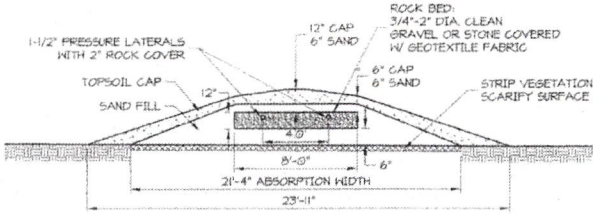
C-1

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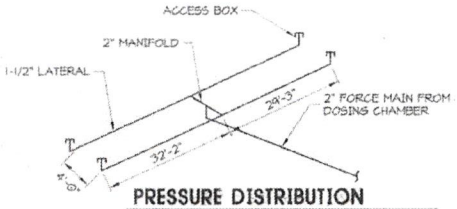
DOSING CHAMBER

SCALE: 1" = 3'



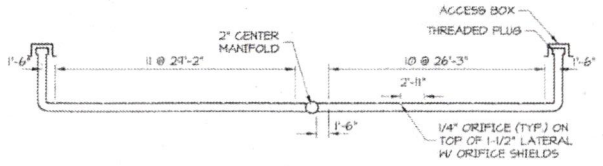
MOUND CROSS SECTION

SCALE: 1" = 5'



PRESSURE DISTRIBUTION

SCALE: 1" = 20'



1-1/2" LATERAL

SCALE: 1" = 10'

PROFESSIONAL CIVIL ENGINEER
JEREMY J. WILLIAMS
E-10
STATE OF NEBRASKA

8 JUL 2016

11277 ASPEN CANYON ROAD
ON-SITE WASTEWATER TREATMENT SYSTEM
LINCOLN, NEBRASKA

DETAILS

Design Associates
ARCHITECTS • ENGINEERS • PLANNERS
PERSHING SQUARE, 1605 "Q" STREET, LINCOLN NEBRASKA, 68508
PHONE (402) 474-2300 WWW.DESIGNASSOCIATES.COM FAX (402) 474-4852

C-2

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

SCANNED

OK 11/9/16

Exhibit 5

Permit Number: H5001208

Onsite Wastewater Treatment System

Inspection Sheet

Date 11/4/16

Legal Description T9N, R8E, Sec 18 Blk 3, Lot 1
¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) 11277 Aspen Canyon 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: N/O

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

Total square feet of drainfield _____ Sq. Ft. Tank Size _____ 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: System was cover upon inspection - arrived after System covered - approved for cover

Field Note Drawing (See Reverse Side):

Inspections prior to Final Approval
Initial 10/17/16 Date NH

Follow-Up _____ Date _____

Follow-Up _____ Date _____

Installation Final Written Approval
By _____

Date 11/4/16

Updated 4/15