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

A

Permit Number
HS002192

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* 5701 S 114TH CT (no rural route) City LINCOLN, NE Zip 68526

Legal Description S18 T9 R8 WHISPERING CREEK 1 5
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 22-18-201-005-000 *Approx. Address (If to be determined)

B. Owner

Name FULTON CONSTRUCTION Signature

Address 3639 N 39TH ST City/State/Zip LINCOLN, NE 68504

Home Phone 402-464-7272 Work Phone

C. Certified Installer

Name: JAIME KUBIK Signature

Address 105 LOCUST ST P.O. BOX 191 City/State/Zip HICKMAN, NE 68372

Work Phone 402-475-2462

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 6 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3.01
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 3-30-21 Amount Paid $440 CC
Received By JRD Cash/Check No. CC0214

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

Form A Updated: 4/15

Nebraska DEQ — Onsite Wastewater Treatment System Soil Percolation Test Data Sheet

Owner Name NATHAN + HEIDI McINTIRE Phone ____

Address 5701 S. 114th Ct City LINCOLN State NE Zip 68526

Location (Attach a sketch of the property showing test hole locations)

__ __ 18 Section 09 Township 08 Range LANCASTER County

Lot # 5 Subdivision WHISPERING CREEK

Soil Type (Check one)

Sand ___ Silt ___ Clay ___ Sandy Clay ___ Loamy Sand ___ Silty Clay ___

Silty Clay Loam ✓ (w/more) Sandy Loam ___ Silt Loam ___

Dates of Test

Start Date 3/9 to End Date 3/10, 2021

Weather Conditions

Precipitation N/A Avg. Temp 55 °F

Percolation Test Measurements and Data

Hole No.	Hole Depth (in.)	Pre-saturation Period Start Date (Mo./Day)	Pre-saturation Period Start Time (Hr./Min)	Pre-saturation Period End Date (Mo./Day)	Pre-saturation Period End Time (Hr./Min)	Percolation Readings (last period) Start Date (Mo./Day)	Start Time (Hr./Min)	Start Water Level (inch)	End Time (Hr./Min)	End Water Level Drop (inch)	Results: Elapsed Time (minutes)	Drop in Water Level (inches)	Percolation Rate (min. / 1 inch) (Minutes per inch)
1	37	3/9	5:40	3/10	5:10	3/10	5:10	11½	5:40	11	30	½	60
2	38	"	"	"	5:32	"	5:32	12⅛	6:02	11½	30	⅝	48
3	36	"	"	"	5:40	"	5:40	12"	6:10	11½	30	½	60

Tests must be performed by a certified professional, a professional engineer or a registered environmental health specialist.

Signature TAYLOR BUSS

Certificate or License # MASTER INSTALLER #2655

Address 8770 WAVERLY RD

City LINCOLN St NE Zip 68517

Phone 402-430-6380

Sum of Percolation Rates = 168

Avg. of Percolation Rates* = 56
(sum of rates ÷ number of tests)
(minutes per inch)

* If rates vary by more than 20 min/in., do not average. Use slowest rate measured for sizing soil absorption area.

Version 9-2014

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. HS002192

System Type: Lagoon

Situs: No Site Address Specified

Issued: 4/1/2021

Expires: 4/1/2022

Description: WHISPERING CREEK ADDITION, BLOCK 1, Lot 5

Owner: MCINTIRE, NATHAN & HEIDI
7801 S 97 BAY
LINCOLN, NE 68526

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

JAIME KUBIK
105 LOCUST ST, PO BOX 191
HICKMAN, NE 68372

Nate C. Hartman

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Tuesday, January 25, 2022 8:05 AM
To: Jason Kubik
Cc: fultonhomes@gmail.com; Nate C. Hartman
Subject: Re: 5733 s 114th
Attachments: 080-W2-006_NDEE Approval.pdf; 5733 S. 114th Ct. Lincoln_080-W2-006_Final Dwgs.pdf

This message needs your attention
• This is their first email to you.
Report or Mark Safe

Jason,

Attached are the approved plans and construction permit for the project.

Nate, there was a change in the absorption field material due to material shortage so EZ flow was used in lieu of tire chips where chips were not readily available. If you would like an as-built drawing, I can provide that once Jason gets me his notes and mark-ups.

Finally, I think Steve is concerned about whether the family can occupy the house without the final approval (operating permit) from the NDEE. I would hope the operating permit would not limit the family moving in. If this is an issue, I can make contact with Kelly at the Dept. to see if she can expedite that process when Jason and I finalize our closing paperwork.

Let me know if you need anything else. Glad you are back!

Thanks,

Dana L. Peterson, P.E.
Frontwater Engineering, LLC
18 Merriweather Drive 11
Johnson Lake, NE 68937
308.746.2470

On Mon, Jan 24, 2022 at 7:09 PM Jason Kubik <southwicksewer@yahoo.com> wrote:
Steve & Dana

I have Nate Hartman from LLCHD coming out tomorrow to look over the installation. He was out with covid last week so he didn't get a chance to look at anything during construction.

Dana, If you could forward the plans and construction permit to Nate that would be great. I just have the preliminary plans that show the 2 tanks not 3.

Thanks
Jason

Jason and Jaime Kubik

Southwick Liquid Waste

Office: 402-475-2462
www.southwickliquidwaste.com

On Monday, January 24, 2022, 06:18:53 PM CST, fultonhomes@gmail.com <fultonhomes@gmail.com> wrote:

Dana, Jason We are planning on closing 5733 s 114th Friday. I spoke with the building inspector today about the engineered system you designed and submitted to the state for approval. My inspector asked if the system approval and any related documents be forwarded over to the Lancaster health department. Maybe you guys have done this already. You two know about this than I do but I don't think the building inspector will issue a occupancy permit with out the septic system approval.

Thanks Steve

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Monday, January 10, 2022 6:07 PM
To: steve <fultonhomes@gmail.com>
Cc: Jason Kubik <southwicksewer@yahoo.com>
Subject: Re: 5733 s 114th

Good news. This was in my mailbox when I got home this evening. We are legal to build!!

Thanks,

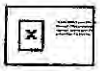
Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470

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On Tue, Jan 4, 2022 at 8:34 AM Dana Peterson <dana@frontwater-eng.com> wrote:

Steve,

Technically no and yes. Construction of the absorption field is not within the regulations without a construction permit so that part should not be built. The septic tanks are already installed and the pump tank could be installed since that component doesn't require a construction permit on its own. To be clear, the whole system is considered a system that requires a construction permit and technically should not be constructed until a permit is issued. Considering the eminent weather, Jason could install the pump tank and associated piping. He could also probably install the force main piping to the absorption field area, but there may be a chance the Dept. has an issue with the absorption field location (but I doubt it).

Long response to a short yes, if Jason chooses to install the pump tank and possibly the force main. Jason, not sure I had it on the drawings, but it would be good to put caution tape in the final backfill 1-2 ft above the force main.

Thanks!

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470

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On Mon, Jan 3, 2022 at 5:01 PM <fultonhomes@gmail.com> wrote:

Dana, Is it possible to get started on your design while we are waiting for approval from the state? In past applications to the state similar to this are the review changes major?

Steve

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Monday, January 3, 2022 9:50 AM
To: steve <fultonhomes@gmail.com>
Cc: Jason Kubik <southwicksewer@yahoo.com>
Subject: Re: 5733 s 114th

Steve,

No news as of today.

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470

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On Mon, Jan 3, 2022 at 9:13 AM steve <fultonhomes@gmail.com> wrote:

Dana, good morning. Have you heard back from the state? We are now 25 days away from closing.

Steve

Sent from Mail for Windows

From: Dana Peterson
Sent: Tuesday, December 28, 2021 10:28 AM
To: steve
Cc: Jason Kubik
Subject: Re: 5733 s 114th

Steve,

Nothing new this week. Last week they reported that the project was in review. However, I doubt there will be much progress this week due to the short week and end of year vacations. I did request an expedited review. I will let you know more when I have an update.

Thanks,

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470


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On Tue, Dec 28, 2021 at 10:14 AM <fultonhomes@gmail.com> wrote:

Hi Dana, any word on the septic status?

Steve Fulton

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Monday, December 20, 2021 8:09 AM
To: steve <fultonhomes@gmail.com>

Cc: Jason Kubik <southwicksewer@yahoo.com>
Subject: Re: 5733 s 114th

Steve,

I sent an email requesting an update a few minutes ago. I will let you know their response. Thanks!

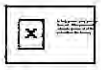
Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470



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On Sat, Dec 18, 2021 at 4:39 PM <fultonhomes@gmail.com> wrote:

Jason, Dana, checking in on progress. We have a hard close date of Feb 1st.

Thanks Steve

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Thursday, December 2, 2021 8:42 AM
To: steve <fultonhomes@gmail.com>
Cc: Jason Kubik <southwicksewer@yahoo.com>
Subject: Re: 5733 s 114th

Steve,

See attached two (2) forms for the owner's completion and signature. I filled out the construction permit application for Nathan so I will need him to complete the Citizen Attestation form. If I need to change it for Heidi, no problem. Please return signed forms by email and I will submit the package for review and approval.

Also attached are the preliminary drawings for review and comment.

Thank you,

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470



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On Mon, Nov 29, 2021 at 4:21 PM steve <fultonhomes@gmail.com> wrote:

Yes I can get the forms to the owners.

Sent from Mail for Windows

From: Dana Peterson
Sent: Monday, November 29, 2021 10:55 AM
To: fultonhomes@gmail.com
Cc: Jason Kubik
Subject: Re: 5733 s 114th

Steve,

I should have this done and ready to submit this week. If I email the forms for the owner's signature to you can you get it to them? There are two forms.

Thanks,

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470



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On Tue, Nov 23, 2021 at 6:52 PM <fultonhomes@gmail.com> wrote:

Dana, Steve Fulton here, Checking in on your progress on the 5733 s 114th septic system. We are getting closer to completion and the owner is anxious to finalize all of the remaining open items.

Thanks Steve

From: Dana Peterson <dana@frontwater-eng.com>
Sent: Monday, November 8, 2021 6:38 AM
To: fultonhomes@gmail.com
Cc: Jason Kubik <southwicksewer@yahoo.com>
Subject: Re: 5733 s 114th

Steve,

Thank you. The site plan should help tremendously.

Dana L. Peterson, P.E.

Frontwater Engineering, LLC

18 Merriweather Drive 11

Johnson Lake, NE 68937

308.746.2470

On Sun, Nov 7, 2021 at 4:56 PM <fultonhomes@gmail.com> wrote:

Dana, here is the McIntire residence. Let me know if you need anything else.

Thanks Steve Fulton



Virus-free. www.avg.com

NEBRASKA

Good Life. Great Resources.

DEPT. OF ENVIRONMENT AND ENERGY

DEC 29 2021

Pete Ricketts, Governor

Nathan McIntire
5733 S. 114th Ct
Lincoln, NE 68526

RE: Construction Permit No. 21OWT049
5733 S. 114th Ct.
Lincoln, NE 68526

NDEE ID: 116927
Program ID: 21OWT049

Dear Mr. McIntire:

On December 6, 2021, the Nebraska Department of Environment and Energy (NDEE) received an onsite application for a construction and operating permit. NDEE 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 form 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.

Department of Environment and Energy
P.O. Box 98922
Lincoln, Nebraska 68509-8922

Jim Macy, Director
office 402-471-2186 FAX 402-471-2909
ndee.moreinfo@nebraska.gov

NEBRASKA

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DEPT. OF ENVIRONMENT AND ENERGY

Construction Permit No. 21OWT049

is hereby issued to

Nathan McIntire

for the

700 Gallon per Day, Septic and Pressure Lateral Onsite System for 5733 S. 114th Ct., Lincoln, NE 68526

Description:

A proposed six bedroom home will construct a dual septic tank, pump tank and pressure lateral system for their onsite wastewater treatment system. The 700 gpd domestic wastewater flow will flow to a new 1,500 gallon septic tank followed by another 1,500 gallon tank in series fitted with a effluent filter. Then followed by a 1,000 gallon pump tank fitted with a 30 gpm submersible pump having 42 TDH pumping through a 135 ft. long two inch diameter force main to a indexing valve. The indexing valve will dose six different laterals of 80 ft long by 5 ft wide with approximately 117 gallons per day flow each. The doses will be 40 to 50 gallons twice or three times daily. The lateral will be constructed of two inch dia. PVC having 40, 3/16 inch dia. holes on 24 inch centers with turned up 90 sweep cleanout on the end. The perforated pipe will be laid on a 5 ft. wide bed of 12 inches of chipped tires of 2.5 inch length maximum dimension. A four inch inspection port will be installed under the tire chips on each lateral to monitor flow. The total proposed soil absorption area is 2,400 square feet which is greater than the 2,333 SF required using 0.3 gpd/SF soil hydraulic loading factor. Groundwater was known to be between 10 to 20 feet deep in the housing area. An audible and visual high level alarm will be mounted the outside control panel for the submersible pump.

located at

5733 S. 114th Ct., Lincoln, NE 68526
40.7537 Latitude, -96.5671 Longitude

Pursuant to a Delegation Memorandum dated July 1, 2021, and signed by the Director, the undersigned hereby executes this document on behalf of the Director.

Signed 12/29/2021

Shelley Schneider

Shelley Schneider PE, Permitting & Engineering Div. Administrator

245 Fallbrook Blvd, P. O. Box 98922, Lincoln, Nebraska, 68509-8922
Phone (402) 471-2186, Fax (402) 471-2909, e-mail ndee.moreinfo@nebraska.gov

Frontwater Engineering, L.L.C.

2021
21OWT___
NDEE I.D. NO.___

Pollution Control Project
APPROVED
P.E.
NDEE Project No. 21OWT049
December 29, 2021

OWT - 5733 S. 114th Ct., Lincoln, NE 68526

5733 S. 114th Court

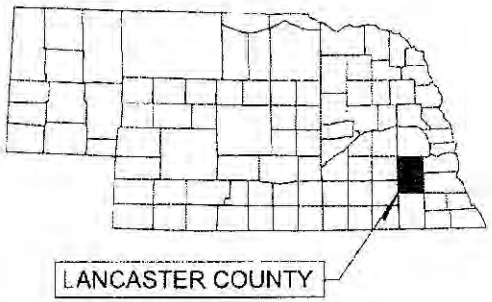
Onsite Wastewater Treatment System

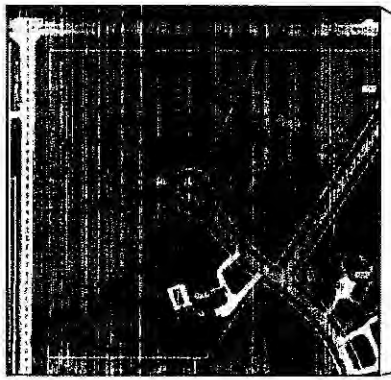
Lot 5, Block 1, Whispering Creek Addition, Lincoln, NE 68526

N1/2 of Section 18, Township 09N, Range 08E of the 6th P.M. Lancaster County, Nebraska

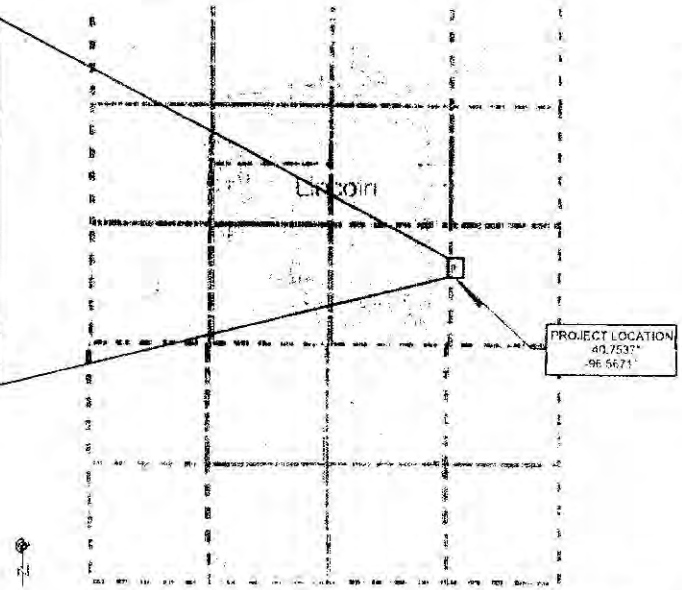
INDEX OF DRAWINGS

SHT. NO.	SHEET NAME
1	TITLE SHEET, LOCATION MAP & INDEX
2	SITE PLAN, DESIGN PARAMETERS & NOTES
3	SEPTIC TANKS & PUMP TANK DETAILS
4	ABSORPTION FIELD DETAILS





VICINITY MAP
NOT TO SCALE



PROJECT LOCATION MAP
NOT TO SCALE

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY

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18 Merriweather Drive 11 Johnson Lake, Nebraska 68937 Phone: 308.746.2470

PROJECT NO. 080-W2-006

DEC 2021

Frontwater Engineering, L.L.C.

2021
21OWT___
NDEE I.D. NO.___

Pollution Control Project
APPROVED
NDEE Project No. 21OWT049
December 29, 2021

OWT - 5733 S. 114th Ct., Lincoln, NE 68526

5733 S. 114th Court

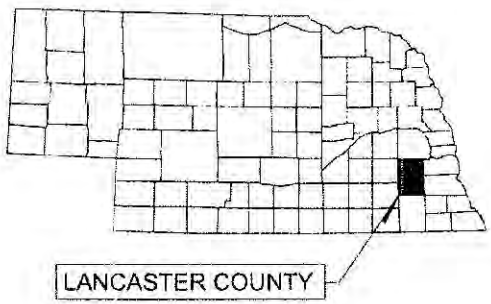
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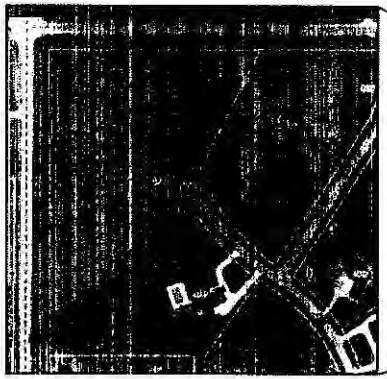
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N1/2 of Section 18, Township 09N, Range 08E of the 6th P.M. Lancaster County, Nebraska

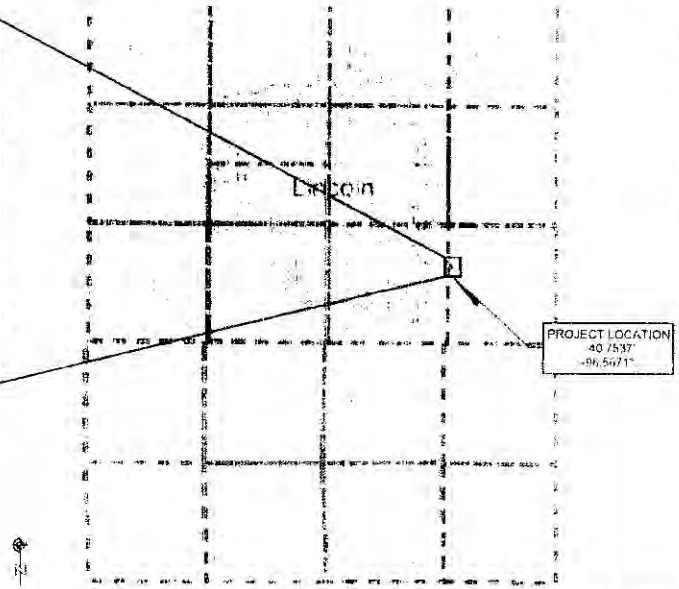
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PROJECT NO. 080-W2-006

DEC 2021

Front Water Engineering LLC

2021

21OWT___

NDEE I.D. NO.___

OWT - 5733 S. 114th Ct., Lincoln, NE 68526

5733 S. 114th Court

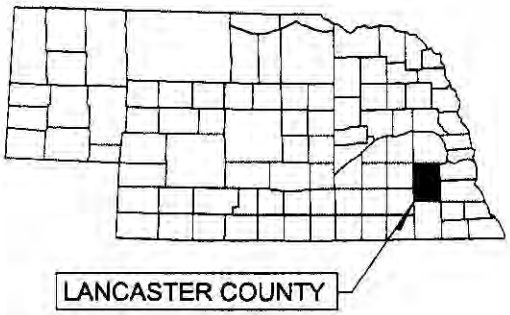
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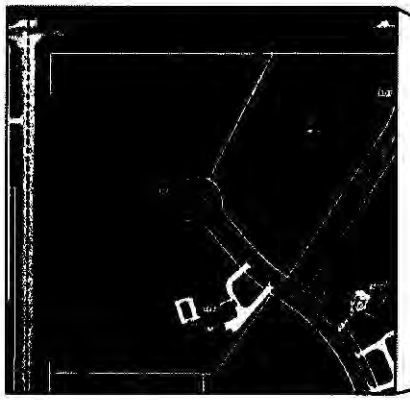
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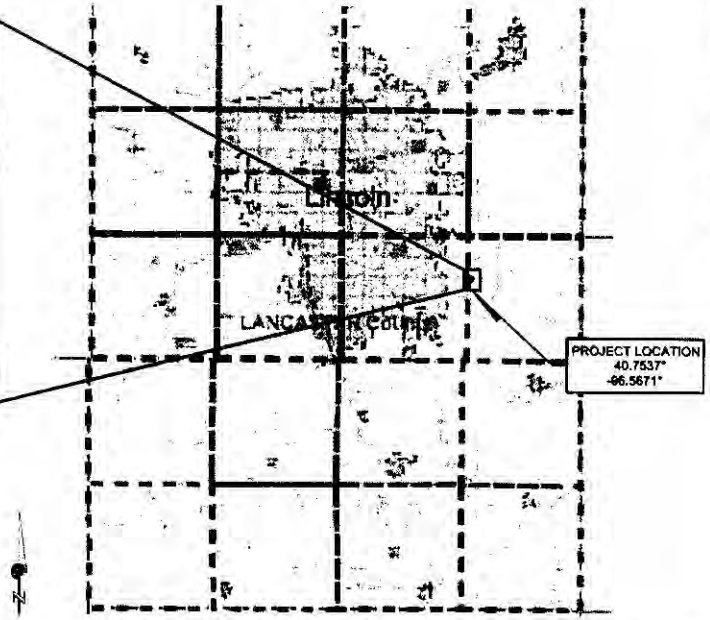
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18 Merriweather Drive 11 Johnson Lake, Nebraska 68937 Phone: 308.746.2470

PROJECT NO. 060-W2-006

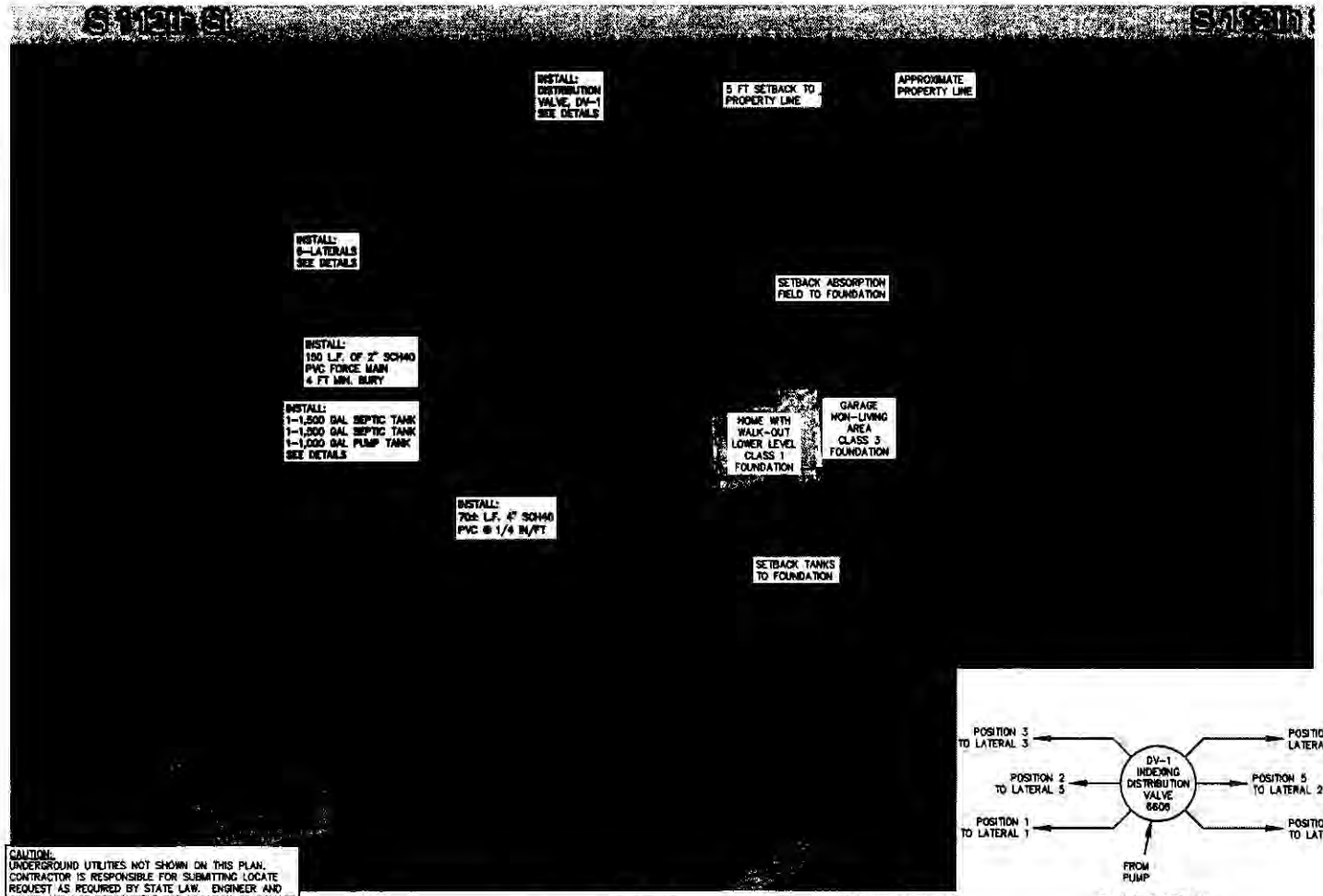
DEC 2021

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GENERAL NOTES:

1. LOCATION OF PROPERTY LINES, UTILITIES, WATER LINES AND BUILDINGS WERE NOT SURVEYED AND ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ONSITE MEASUREMENT AND VERIFICATION OF ALL REQUIRED DIMENSIONS.
2. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATION NOTIFICATION BY CALLING 811.
3. ALL WORK SHALL BE IN ACCORDANCE WITH NDEQ/NDEE TITLE 124 REGULATIONS INCLUDING, BUT NOT LIMITED TO, VERIFICATION OF SETBACK DISTANCES, LOCATIONS AND ELEVATIONS OF EXISTING FEATURES, CONSTRUCTION AND REGISTRATION OF THE SYSTEM.
4. ALL WORK SHALL BE PERFORMED BY NDEQ/NDEE TITLE 124 CERTIFIED INDIVIDUALS AS REQUIRED BY REGULATION.
5. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY MAJOR CHANGES NECESSARY FOR THE CONSTRUCTION OF THE ON-SITE SYSTEM.
6. CONTRACTOR IS RESPONSIBLE FOR SETTING UP HORIZONTAL AND VERTICAL CONTROL FOR THE CONSTRUCTION OF THE ON-SITE SYSTEM.
7. NOT ALL FITTINGS CALLED OUT. CONTRACTOR SHALL PROVIDE SCH40 PVC FITTINGS AS REQUIRED FOR INSTALLATION.
8. ALL GRAVITY SEWER PIPE SHALL BE 4" DIAMETER SCH40 PVC. SLOPE OF PIPES TO TANKS SHALL BE AT 2% (1/4 IN/FT) MIN.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCURATE AS-RECORDED (AS-BUILT) DRAWINGS WITH DIMENSIONS AND ELEVATIONS TO ENGINEER FOR RECORDS.
10. RESTORATION OF THE SITE, INCLUDING BUT NOT LIMITED TO, GRADING, LANDSCAPING, SEEDING OR SODDING AND VEGETATING SHALL BE COMPLETED BY CONTRACTOR OR COORDINATED WITH OWNER.

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.



CAUTION:
UNDERGROUND UTILITIES NOT SHOWN ON THIS PLAN. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING LOCATE REQUEST AS REQUIRED BY STATE LAW. ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR LOCATION OR DAMAGE OF UTILITES AS A RESULT OF CONTRACTOR'S WORK.

SCALE: 1" = 30'

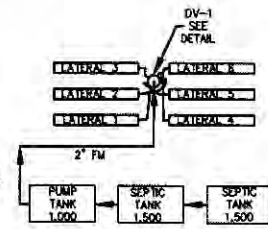
SITE PLAN
SCALE: 1"=30'

DESIGN PARAMETERS	
DESIGN FLOW	
NO. OF BEDROOMS	6
DESIGN FLOW	700 GPD
SEPTIC TANKS	
ST-1	1,500 GAL
ST-2 (FIRST COMPARTMENT)	1,000 GAL
ST-2 (SECOND COMPARTMENT)	1,500 GAL
TOTAL SEPTIC TANK VOLUME	3,000 GAL
EFFLUENT FILTER	
CAPACITY (MIN.)	1,000 GPD
EFFLUENT PUMP TANK	
CAPACITY	1,000 GAL
NO. OF PUMPS	1
PUMP OPERATING RANGE (APPROX.)	30 GPM @ 42 FT 40 GPM @ 46 FT
TDH	
SPECIFIED PUMP(S)	ZOELLER 181
PUMP CONTROL	TIME DOSED
DOSE VOLUME	3-4X LATERAL VOLUME 40-50± GAL
LATERAL DOSE	2X-3X PER DAY

ABSORPTION SYSTEM DESIGN PARAMETERS	
SOIL AND SITE DATA	
SITE SOILS	CLAY
SITE PERCOLATION RATE	120± MPI
GROUNDWATER (AT ABSORPTION SITE)	10-20 FT
ABSORPTION FIELD SYSTEM	
CONCEPT	TRENCH LATERALS WITH PRESSURE DISTRIBUTION
NO. OF LATERALS	6
DESIGN FLOW PER LATERAL	117 GPD
TOTAL DESIGN FLOW	700 GPD
LATERAL LOADING RATE	0.3 GPD/S.F.
AREA REQUIRED (TOTAL)	2,334 S.F.
LATERAL (TRENCH) WIDTH	5 FT
LATERAL LENGTH	80 FT
LATERAL AREA	400 S.F.
TOTAL AREA	2,400 S.F.
MATERIAL	TIRE CHIPS
MATERIAL DEPTH	12± IN
LATERALS	
DISTRIBUTION	END
DIAMETER & MATERIAL	2" SCH 40 PVC
LATERAL VOLUME	13 GAL
HOLE SPACING	2 FT C-C
HOLE DIAMETER	3/16 IN.
NO. OF HOLES PER LATERAL	40
DISCHARGE PER HOLE, DESIGN	0.75 TO 1.0 GPM
DISCHARGE PER LATERAL	30 TO 40 GPM
DISTRIBUTION TO LATERALS	
DISTRIBUTING (INDEX) VALVE	6 OUTLET (6606)

DESIGN PARAMETERS

DV-1 DETAIL
NOT TO SCALE



FLOW SCHEMATIC
NOT TO SCALE

Front Range Engineering
10 Merrimacker Dr. 11 • Johnston Lake, ME 04937 • 308.740.2479

REVISIONS

NO.	DATE

OWT - 5733 S. 114th Ct.

SITE PLAN, NOTES & DESIGN PARAMETERS

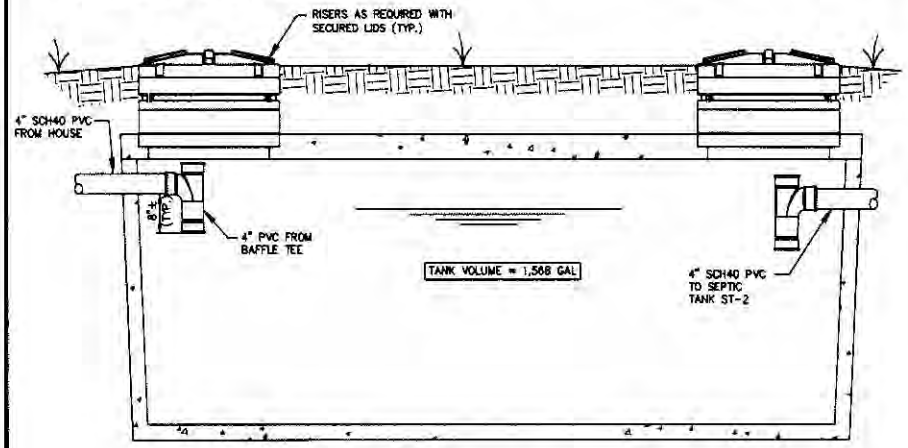
Lincoln, Lancaster County, Nebraska

SCALE: SEE SHT HORIZONTAL
HOME VERTICAL
PROJECT NO. 080-402-006
DRAWN BY: CAD
CHECKED BY: DJP
DATE: Dec., 2021
SHEET NO. 4 OF 4

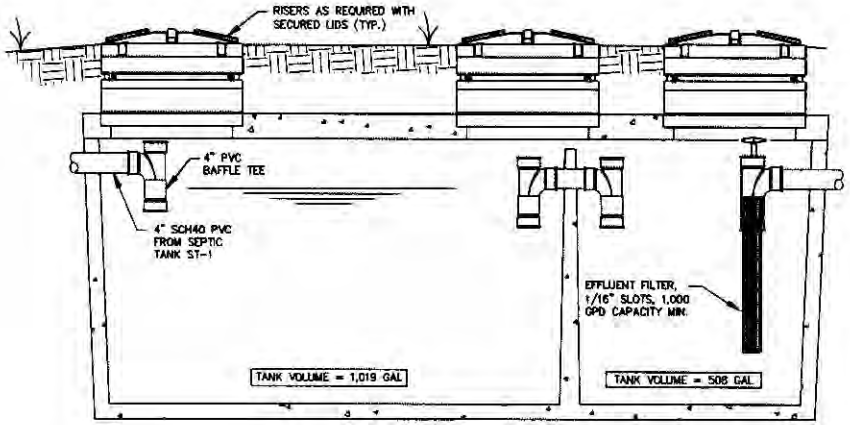
PLOTTED: 12/6/2021 10:38 AM SAVED: 12/3/2021 9:58 PM G:\Projects\080 - Southwick Liquid Waste OWTS\080-W3-006\Dwgs\080-W3-006.dwg

SEPTIC TANK NOTES:

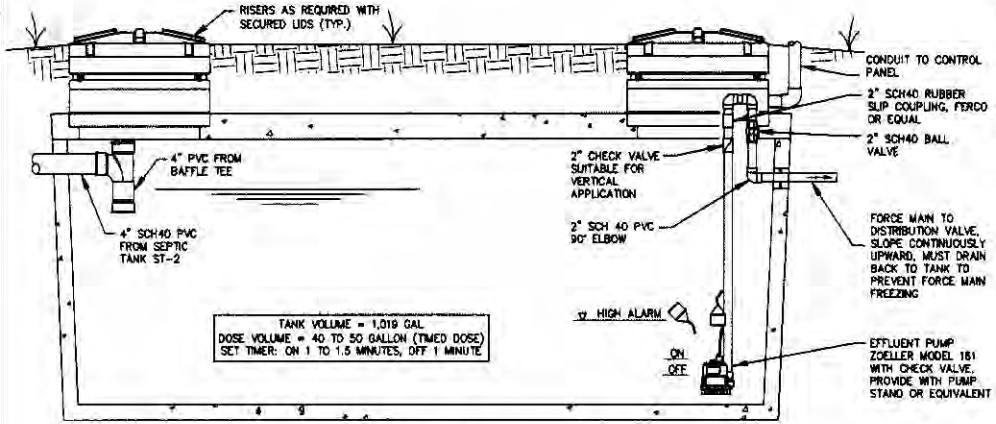
1. SEPTIC TANKS SHALL BE PRE-CAST CONCRETE WITH CAPACITY AS SHOWN ON THE DETAIL
2. INLETS AND OUTLETS SHALL BE ORIENTED AS SHOWN
3. EACH TANK SHALL HAVE TAG WITH NAME OF MANUFACTURER, ADDRESS AND TANK CAPACITY.
4. EACH SEPTIC TANK SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR AS DIRECTED BY ENGINEER.
5. INLET AND OUTLET BAFFLE TEES SHALL BE PROVIDED AS SHOWN



SEPTIC TANK ST-1
NOT TO SCALE



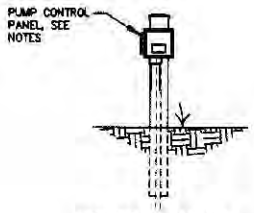
SEPTIC TANK ST-2
NOT TO SCALE



PUMP TANK
NOT TO SCALE

PUMP TANK NOTES:

1. PUMP SHALL BE CAPABLE OF BEING REMOVED WITHOUT ENTERING PUMP TANK.
2. PUMP SHALL BE ZOELLER MODEL 181 OR EQUAL, CAPABLE OF PUMPING APPROXIMATELY 30 GPM AT 42 FT OF HEAD TO 40 GPM AT 48 FT OF HEAD.
3. FLOATS SHALL BE SET TO PROVIDE DOSE VOLUME AS INDICATED ON THE DETAIL AND MAY BE ADJUSTED IN THE FIELD TO ACHIEVE PERFORMANCE.
4. DUE TO FORCE MAIN VOLUME, PROVIDE A CHECK VALVE ON THE PUMP DISCHARGE..
5. HIGH LEVEL ALARM FLOAT SHALL BE ADJUSTED TO ALARM WHEN THE LEVEL REACHES APPROXIMATELY 4" ABOVE PUMP START FLOAT. THE HIGH LEVEL ALARM SHALL BE ON A SEPARATE CIRCUIT IN THE ELECTRICAL PANEL.
6. PUMP PANEL SHALL BE MODEL 1100 SERIES FROM ALDERON INDUSTRIES, TIME DOSED PANEL OPERATION WITH LOW LEVEL FLOAT SHUT OFF AND HIGH LEVEL FLOAT ALARM & TIMER OVERRIDE.
7. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT, APPROPRIATELY SIZED AND INSTALLED IN ACCORDANCE WITH THE NEC AND STATE AND LOCAL CODES. PROVIDE AND INSTALL ALL WIRING, CONDUIT, BREAKERS, FASTENERS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
8. PROVIDE AND INSTALL TREATED WOOD RACK, GALVANIZED STEEL UNI-STRUT RACK OR GALVANIZED PIPE RACK AS SELECTED BY OWNER, TO SECURELY MOUNT ELECTRICAL EQUIPMENT



CONTROL PANEL
NOT TO SCALE

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Front Range Engineering
18 Northwestern Dr. 111 • Johnson Lake, NE 68037 • 308.740.2479

REVISIONS

NO.	DATE

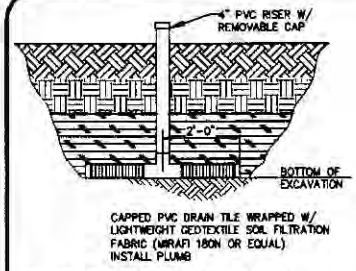
OWT - 5733 S. 114th Ct.

SEPTIC TANK & PUMP TANK DETAILS

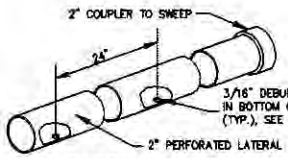
Lincoln, Lancaster County, Nebraska

SCALE: 1"=30' HORIZONTAL: None VERTICAL:
PROJECT NO. 080-W2-008
DRAWN BY: DAD
CHECKED BY: DLP
DATE: Dec., 2021
SHEET 3 OF 4

PLOTTED: 12/6/2021 10:48 AM SAVED: 12/3/2021 9:58 PM G:\Projects\080 - Southwest Liquid Waste OWTs\080-W2-008\Dwgs\080-W2-008.dwg



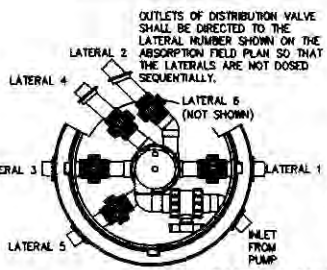
INSPECTION PORT DETAIL
NOT TO SCALE

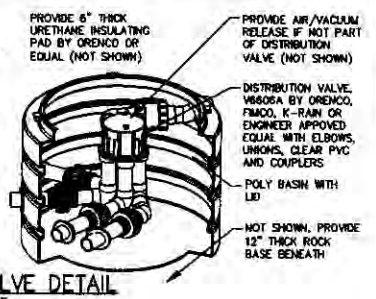


DISTRIBUTION PIPE DETAIL (TYPICAL)
NOT TO SCALE

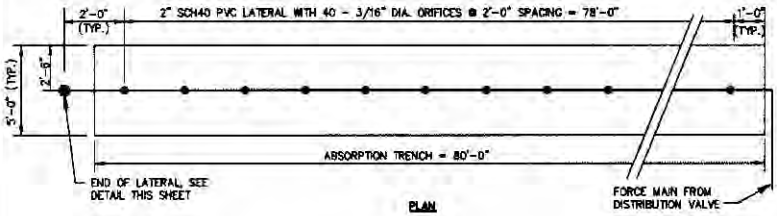
PRESSURE DISTRIBUTION NOTES:

1. PRESSURE DISTRIBUTION PIPE SHALL BE 2" DIA. SCH 40 PVC. ALL FITTINGS SHALL BE SOCKET SOLVENT WELDED SCH 40 PVC. EACH FITTING SHALL BE THRUST BLOCKED WITH 1/3 BAG OF QUICKRETE OR EQUAL.
2. 3/16" DIA. HOLES SHALL BE DRILLED ON 24" CENTERS IN A STRAIGHT LINE IN EACH LATERAL PIPE. HOLES SHALL BE DEBURRED INSIDE AND OUTSIDE. IF HOLES SHOULD BE DRILLED IN BOTTOM OF PIPE IN A STRAIGHT ALIGNMENT. EACH LATERAL MUST DRAIN BETWEEN CYCLES TO PREVENT FREEZING.
3. EACH LATERAL SHALL BE TERMINATED WITH A SWEEP CLEAN-OUT ASSEMBLY WITH THREADED CAP OR THREADED PLUG.

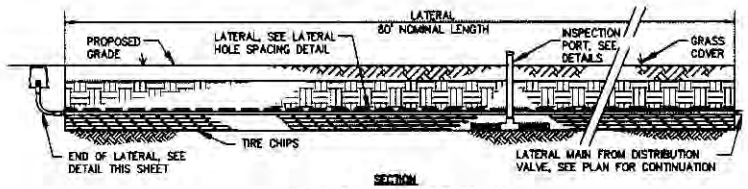




DISTRIBUTION VALVE DETAIL
NOT TO SCALE



PLAN

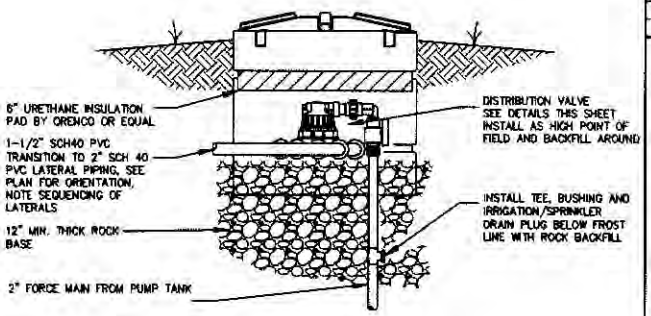


SECTION

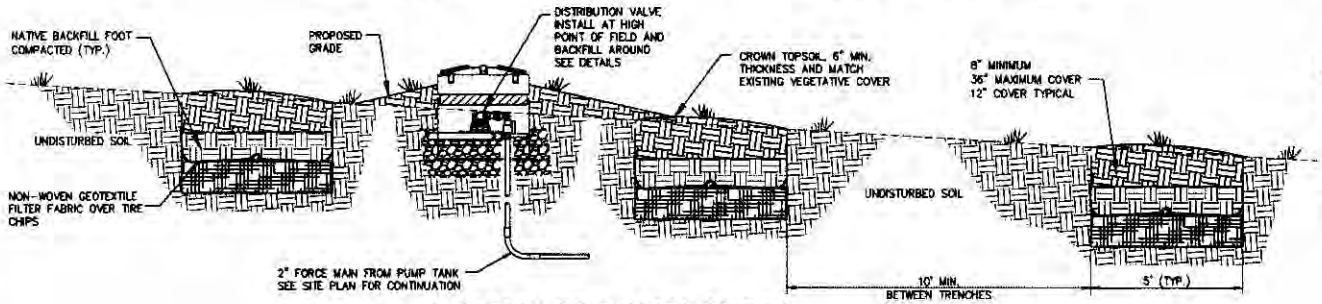
PRESSURE LATERAL
NOT TO SCALE

ABSORPTION FIELD NOTES:

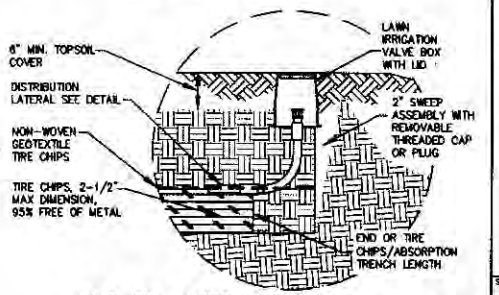
1. BOTTOM OF TRENCH EXCAVATION SHALL BE LEVEL USING AN INSTRUMENT FOR ACCURACY. BOTTOM AND SIDES OF TRENCH SHALL BE EXCAVATED IN A MANNER TO LEAVE SOIL AS NATURAL, UNCOMPACTED AND UNSMEARED AS POSSIBLE.
2. EXCAVATION SHALL NOT BE PERMITTED WHEN SOILS ARE EXCESSIVELY WET.
3. ABSORPTION FIELD FILTER MEDIA SHALL BE TIRE CHIPS WITH MAXIMUM DIMENSION OF 2-1/2" AND MAXIMUM OF 5% METAL CONTENT.
4. TRENCHES SHALL BE TOPPED WITH 6" OF TOPSOIL AND CROWNED ABOVE FINISHED GRADE TO ALLOW FOR NATURAL SETTLING.
5. AREA SHALL BE RESEEDED, COORDINATE WITH OWNER.



DISTRIBUTION VALVE SECTION
NOT TO SCALE



ABSORPTION FIELD CROSS SECTION
NOT TO SCALE



END OF LATERAL DETAIL
NOT TO SCALE

HALF SIZE
THIS DRAWING HAS BEEN REDUCED FROM ITS ORIGINAL SIZE BY HALF. ALL DIMENSIONS AND SCALES SHALL BE ADJUSTED ACCORDINGLY.

Frontier Engineering
18 Northeastern Dr. 111 • Johnston Lake, NE 68937 • 308.746.2470

REVISIONS

NO.	DATE

OWT - 5733 S. 114th Ct.

ABSORPTION FIELD DETAILS

Lincoln, Lancaster County, Nebraska

SCALE: 1"=3ft HORIZONTAL
1"=3ft VERTICAL
PROJECT NO. 080-102-006
DRAWN BY: CAD
CHECKED BY: DLP
DATE: Dec., 2021
SHEET 4 OF 4

PLOTTED: 12/6/2021 10:36 AM SAVED: 12/3/2021 9:58 PM G:\Projects\080 - Southwest Liquid Waste OWT\080-W3-006\Dwgs\080-W3-006.dwg

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

SCANNED

A

Permit Number
HS002192

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* 5701 S 114TH CT City LINCOLN, NE Zip 68526
(no rural route)

Legal Description S18 T9 R8 WHISPERING CREEK 1 5
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 22-18-201-005-000 *Approx. Address (If to be determined)

B. Owner

Name FULTON CONSTRUCTION Signature

Address 3639 N 39TH ST City/State/Zip LINCOLN, NE 68504

Home Phone 402-464-7272 Work Phone

C. Certified Installer

Name: JAIME KUBIK Signature

Address 105 LOCUST ST P.O. BOX 191 City/State/Zip HICKMAN, NE 68372

Work Phone 402-475-2462

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 6 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3.01
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 4/1/21
Date frwd 4/1/21
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 1/27/22

See Engineer's plans

Business Office Use Only
Date Received 3-30-21 Amount Paid $440 CC
Received By JAO Cash/Check No 20214

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

Form A Updated: 4/15

SCANNED

Nebraska DEQ

Onsite Wastewater Treatment System
Soil Percolation Test Data Sheet

Owner Name NATHAN + HEIDI McINTIRE Phone ____

Address 5701 S. 114TH CT LINCOLN NE 68526
City State Zip

Location (Attach a sketch of the property showing test hole locations)

__ __ 18 D9 08 LANCASTER
¼ ¼ Section Township Range County

Lot # 5 Subdivision WHISPERING CREEK

Soil Type (Check one)

Sand ___ Silt ___ Clay ___ Sandy Clay ___ Loamy Sand ___ Silty Clay ___

Silty Clay Loam ✓ Sandy Loam ___ Silt Loam ___ (WYMORE)

Dates of Test

Start Date 3/9 to End Date 3/10, 2021

Weather Conditions

Precipitation N/A Avg. Temp 55 °F

Percolation Test Measurements and Data

Hole No.	Hole Depth (in.)	Pre-saturation Period: Start Date (Mo./Day)	Pre-saturation Period: Start Time (Hr./Min)	Pre-saturation Period: End Date (Mo./Day)	Pre-saturation Period: End Time (Hr./Min)	Percolation Readings (last period): Start Date (Mo./Day)	Percolation Readings (last period): Start Time (Hr./Min)	Percolation Readings (last period): Start Water Level (inch)	Percolation Readings (last period): End Time (Hr./Min)	Percolation Readings (last period): End Water Level Drop (inch)	Results: Elapsed Time (minutes)	Results: Drop in Water Level (inches)	Results: Percolation Rate (min ÷ 1) (Minutes per inch)
1	37	3/9	5:40	3/10	5:10	3/10	5:10	11½	5:40	11	30	½	60
2	38	"	"	"	5:32	"	5:32	12⅛	6:02	11½	30	⅝	48
3	36	"	"	"	5:40	"	5:40	12"	6:10	11½	30	½	60

Tests must be performed by a certified professional, a professional engineer or a registered environmental health specialist.

Signature TAYLOR BUSS

Certificate or License # MASTER INSTALLER #2655

Address 8770 WAVERLY RD

City LINCOLN St. NE Zip 68517

Phone 402-430-8380

Sum of Percolation Rates = 168

Avg. of Percolation Rates* = 56
(sum of rates ÷ number of tests)
(minutes per inch)

* If rates vary by more than 20 min/in., do not average. Use slowest rate measured for sizing soil absorption area.

Version 9-2014

SCANNED

D

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

Permit Number:

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) 22-18-201-005-000

Owner: NATHAN McINTIRE Address 5733 S 114TH CT LINCOLN, NE 68526

A. Wastewater Piping

1. Material: SCH 40 Diameter: 4 in.
2. Distance between dwelling and septic tank: 95 ft.

B. Septic Tank

1. Material CEMENT TANKS
2. Capacity: 3000
3. Depth to top of tank, below unfinished grade: 15 in..
4. Distance to:
   Well NA ft.
   Pressure line +50 ft
   Property Line +50 ft.
   Foundation 95 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: SW 148 ft

K-RING & ZONE INDEX VALVE

D. Drainfield/Absorption Field

☐ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☒ Other

   Material brand and inside width of Chamberless: EZ FLOW & TIRE CHIPS

2. Number of Laterals: 6
3. Length of each lateral (linear): ft. 80 ft. 80 ft. 80 ft. 80 ft. 80 80
4. Drainfield size: 2400 sq. ft. ✓ NH
5. Distance to:
   Well NA ft.
   Pressure line +50 ft.
   Property line +50 ft.
   Depth of Groundwater +12

NDEQ CONSTRUCTION PERMIT 210WT049 called in, out side NH ✓

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: [signature] Date: 1-26-22

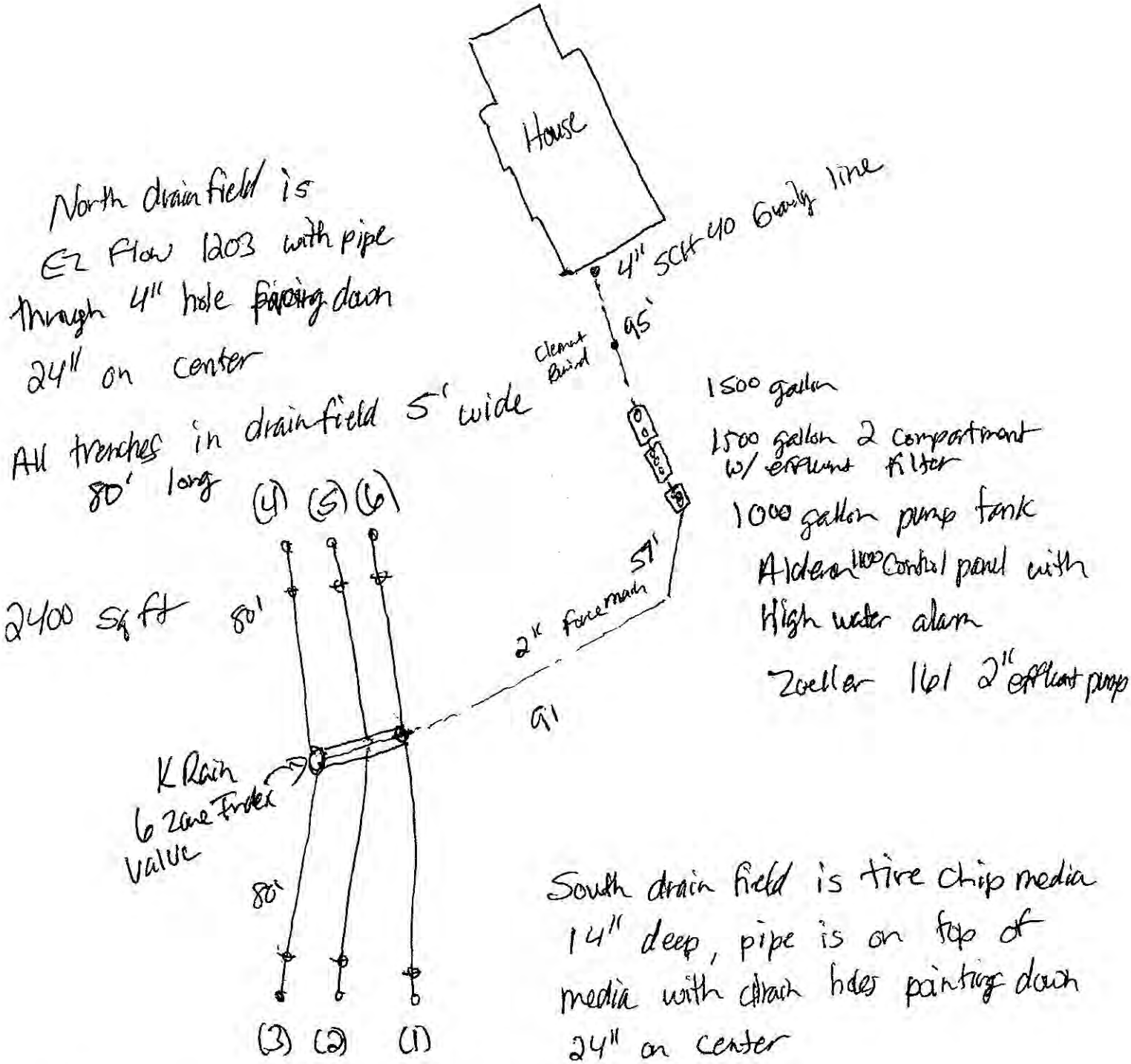
Complete As-Built drawing on the back of this form.

SCANNED

N ↑

Construction Permit No. 210WT049

5733 S 114th CT



North drain field is Ez Flow 1203 with pipe through 4" hole ~~piping~~ down 24" on center

All trenches in drain field 5' wide 80' long

South drain field is tire chip media 14" deep, pipe is on top of media with drain holes pointing down 24" on center

Pumping sequence: 1, 5, 3, 4, 6