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

A

Permit Number
HS001550

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

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

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 17474 Red Sunset Ct. (no rural route) City Bennet, NE Zip

Legal Description 11 8 N 8 Nemaha Ridge Addition 2 3

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

PID

B. Owner

Name Clayton Gibbs Signature

Address 3122 Colt Ave City/State/Zip Lincoln, NE 68507

Home Phone 205-561-7637 Work Phone

C. Certified Installer

Name: Jeffery N Schoeneck Signature Jeff Schoeneck

Address 1291 Co Rd V City/State/Zip Fremont, NE 68025

Work Phone 402-720-9209

D. Engineer ☒ **Check and complete if engineer designed system** P.E. License Number: E8989

Designer Name Jeffery N Schoeneck Firm Horizon Envirotech, LLC Work Phone 402-720-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 5 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3

Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day 600

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

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

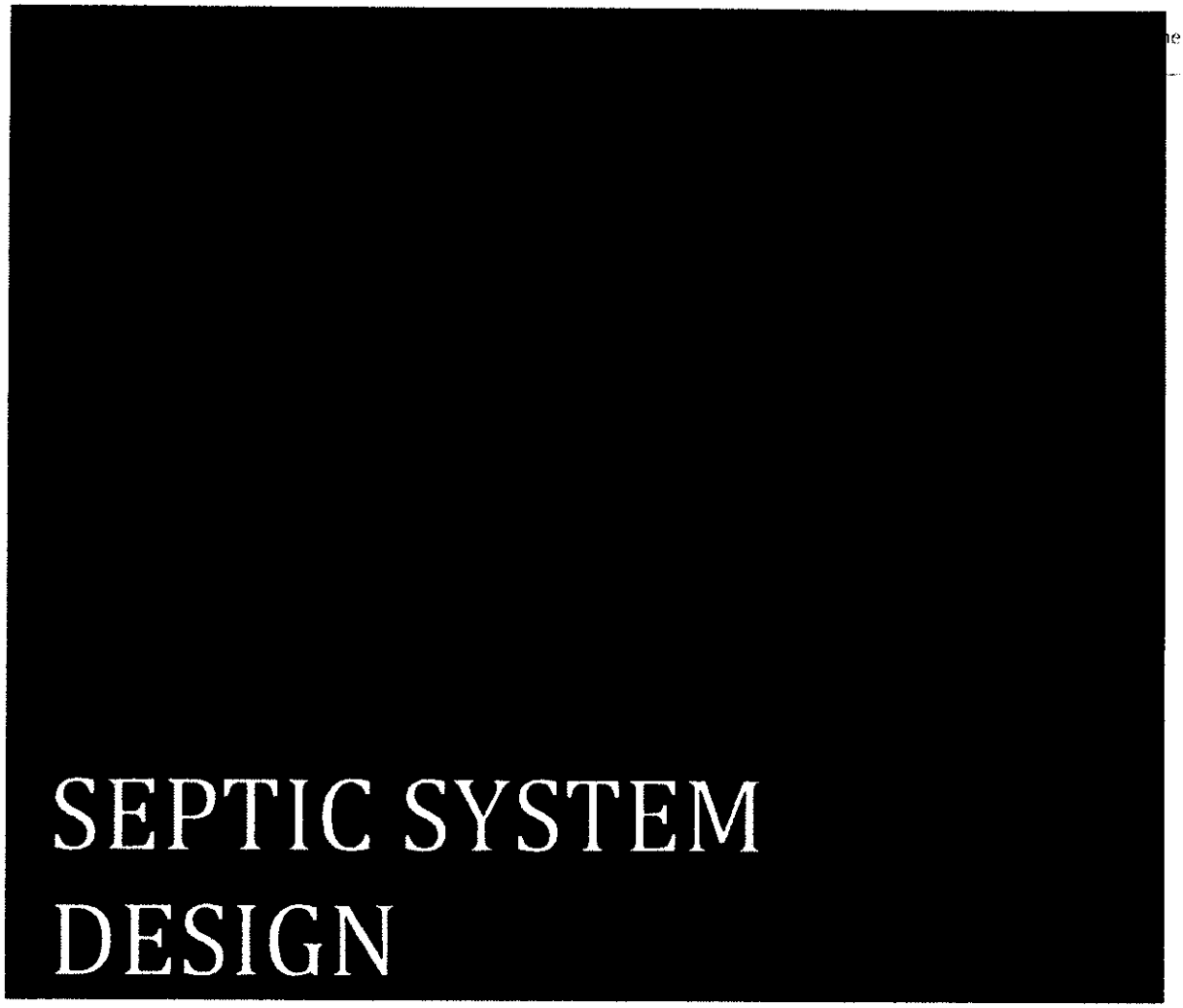
Installation Final Written Approval
By
Date

Business Office Use Only
Date Received Amount Paid
Received By Cash/Check No.

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

Form A Updated: 1.13

COPY



SEPTIC SYSTEM DESIGN

Prepared by: Jeffery N. Schoeneck, P.E.

Gibbs Residence – 17474 Red Sunset Ct, Bennet, NE
Lancaster County, NE

HORIZON ENVIROTECH,LLC

26720 ELKHORN OAKS CIR
ARLINGTON, NE 68002

(402)-720-9209

E-mail jeffhet@1791.com

6/30/2017

Pollution Control Project
17OWT026
Nebraska DEQ
APPROVED
8-4-2017

20170050504

Gibbs Residence Septic System Design

6/30/2017

Peak Daily Design Load - 5 Bedroom - 600 GPD

Lateral Field Sizing

Average Soil Pecolation Rate for Site "B" (Gravity Site) - 52.3 min/in @ 14" Test Depth
Seasonal High Water Table @ 5.3 ft Below Surface
Proposed lateral field site consists of approximately 14" of Silty Clay Loam with moderate blocky structure over clay loam with weak to moderate blocky structure
Due to limited suitable soils area - Propose a 1/3 reduction in lateral field sizing with treatment using ECOPOD Unit
Required Lateral Field Size per Title 124 - 1750 sqft

Propose - 1750 X 2/3 = 1167 sqft
260 ft of (3)-12" Bundled Polystryene (260 X 4.5 sqft/ft = 1170 sqft)
Laterals to be installed at an average depth of 12" into virgin soil and provide 8" minimum cover with loamy soil

Treatment - Use Pentair Delta Enviromental ECOPOD Model E60NCA (600 GPD System)
See NSF Report Document for Treatment Process and Maintenance
Minimum Treatment Levels to be < 30mg/l BOD 5 and TSS
Contractor to provide first 2 yrs of Service
Homeowner to maintain service contract to insure proper function of system over time

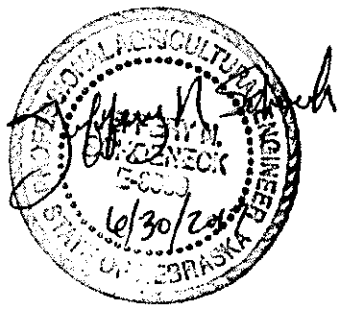
Septic Tank Sizing

ECOPOD System Requires Minimum Pretreatment/Septic Tanks Size of 600 gallons
Propose Using 1,000 gallon tank

Electical Requirements - Requires Dedicated 20 Amp, 120V, 1 Ph Circuit

Prepared By:

Jeffery N. Schoeneck, P.E.
Horizon Envirotech, LLC
26720 Elkhorn Oaks Cir
Arlington, NE 68002
402-720-9209
jeffhet@1791.com



Component Replacement Procedure

1. Air Pump – Follow same procedure as outlined in the "Installation Instructions".
2. Float Switch – Remove Treatment Plant's Riser or 24 inch cover. Locate float switch cable. Untie knot. Cut float switch cable. Slip float switch cable through rubber grommet into the plant. Replace with exact replacement float switch. Reinstall by reversing procedure. Reconnect float switch wires using Underground Rated Compound filled wire nuts. See Float Switch Mounting Detail.
3. Pressure Switch – Turn all power off to control panel. Remove screws securing pressure switch as well as connectors and tubing. Reverse procedure to install new pressure switch.
4. Buzzer – Turn all power off to control panel. Remove screw attaching buzzer to back plate as well as connectors. Reverse procedure to install new buzzer.
5. Lamp-holder – Turn all power off to control panel. Remove lock nut securing lamp-holder to door as well as connectors. Remove lamp-holder. Install new lamp-holder with gaskets furnished. Continue with reverse procedure.
6. Lamp – Turn all power off to control panel. Remove red lamp cover from front of control panel. Remove and replace lamp which is a push in type. Replace lamp cover and cover gasket.
7. Fuse – Turn all power off to control panel. Pull top of fuse holder outward. Remove and replace fuse. Push fuse back into place.
8. Buzzer Switch – Turn all power off to control panel. Remove rubber boot on switch. Remove hex nut from switch on panel front as well as connectors on switch. Reverse procedure to install new switch.

General Comments

1. Only factory approved equipment can be used for replacement on individual treatment systems.
2. If the decision is made to pump out a system, be sure to contact a licensed waste hauler.
3. If a chronic problem develops and all items listed have been checked, consult with the factory.
4. Taking pictures of systems when troubleshooting will help document activity in the field.
5. Keep good records.

NOTE: If the entire cover needs to be removed on any one of the various model treatment plants, the existing silicone or strip seal must be removed and replaced with a new one. This will provide a positive seal which will not allow any infiltration into or out of the treatment plant.

ECOPOD-N™ Fixed Film Wastewater Treatment System Unit Specifications

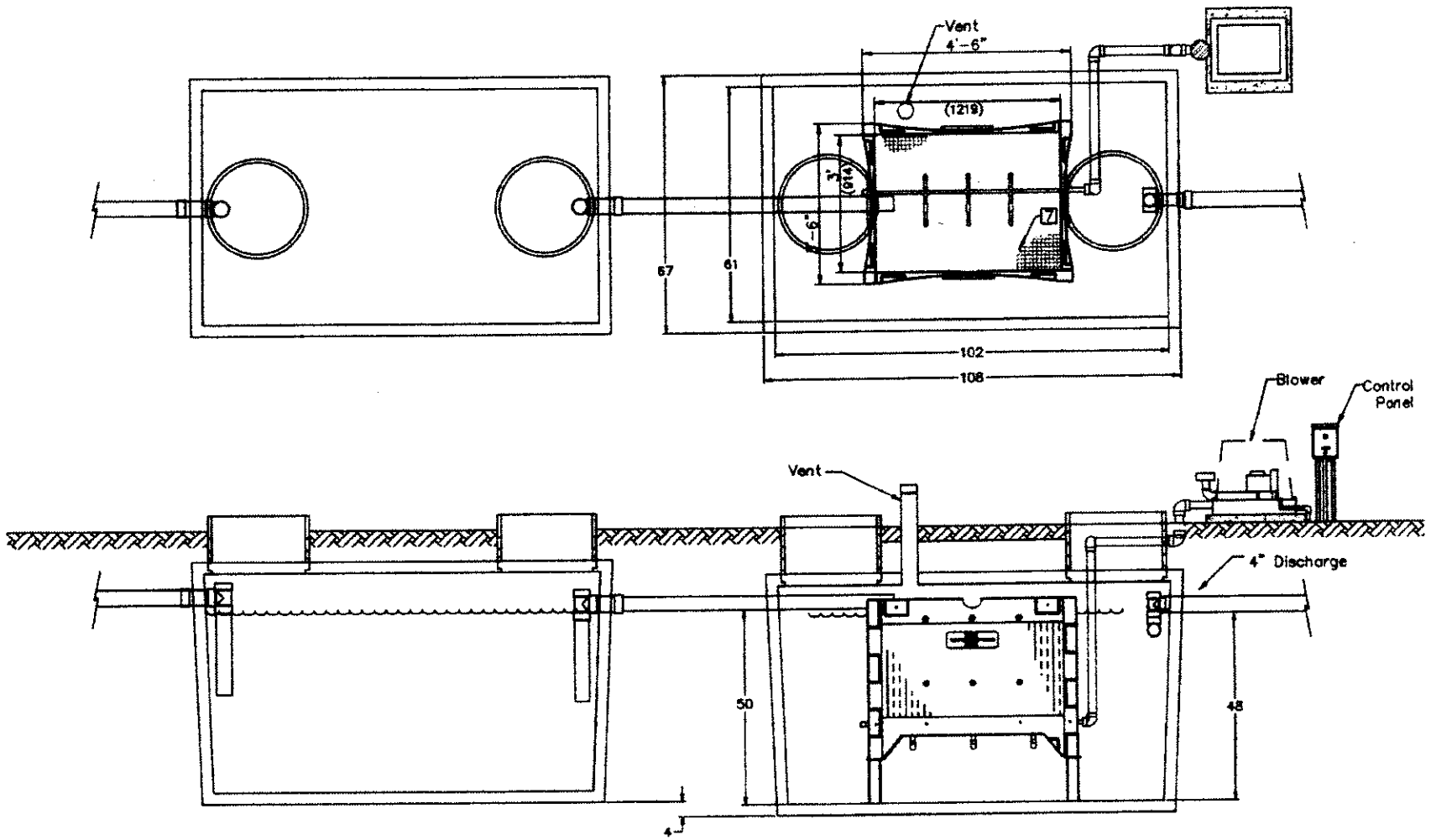
Treatment Plant	Treatment Capacity (GPD)	Primary Tank Total Volume (Gal)	Reactor Tank Volume (Gal)	Reactor Tank Dilution Volume (Gal)	Media Size	Air Requirements
E50-N	500	500	710	580	2' x 2' x 4'	12 CFM
E60-N	600	600	916	736	3' x 2' x 4'	14.4 CFM
E75-N	750	750	1089	909	3' x 2' x 4'	18 CFM
E100-N	1000	1000	1427	1186	4' x 2' x 4'	24 CFM
E150-N	1500	1500	2130	1771	6' x 2' x 4'	36 CFM

Materials Of Construction		
Suffix FF	Reactor Tank	Fiberglass
	Cover	Fiberglass
	Media Container	Fiberglass
Suffix CA	Reactor Tank	Concrete
	Cover	Concrete
	Media Container	Fiberglass

These are standard production units. Other configurations are available upon request.

Delta Environmental™

3 of 7



1,000 GAL PRIMARY TANK

E60NCA – IN Precast 1000 Gal SEPTIC TANK

REV.	DATE	REVISION DESCRIPTION	BY

COMPANY CONFIDENTIAL: INFORMATION CONTAINED HEREIN IS CONFIDENTIAL. IT IS THE PROPERTY OF PENTAIR PUMP GROUP. IT IS TO BE USED SOLELY FOR THE PURPOSE PROVIDED, AND IT IS NOT TO BE DISCLOSED TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF PENTAIR PUMP GROUP.

PENTAIR
DELTA ENVIRONMENTAL®

E60NCA IN 1,000 GAL TANK ACCURATE PRECAST

PLOT SCALE	DRAWING NUMBER	DRAWN BY	DATE	SHEET	REV
NTS	E60NCA	R. DARBONNE	06/19/17	1 OF 1	A

Soil Absorption Test Data Sheet

Owner Information:

Owner: Clayton & Staci Gibbs Phone: 205-561-7637

Address: 3122 Colt Ave, Lincoln, NE 68507

Location: Block 2, Lot 3, Nemaha Ridge Addition, Bennet, NE SITE "B"

Latitude Longitude

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: 2+ Acres

Soil type: Sand/Loamy Sand _____ Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam X Silt Loam _____ Sandy Loam _____ Virgin Soil

Presaturation period:

Test Day Weather
Weather Cloudy Temp. 64 F

Start Date	Start Time	Finish Date	Finish Time
6/22/17	10:30 AM	6/22/17	2:30 PM

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
5	14	6/23/17	10:58 AM	7.40	11:28 AM	6.90	30	0.50	60.0
6	14	6/23/17	10:59 AM	7.25	11:29 AM	6.70	30	0.55	54.5
7	14	6/23/17	11:00 AM	7.50	11:30 AM	6.75	30	0.75	40.0
8	14	6/23/17	11:01 AM	7.7	11:31 AM	7.15	30	0.55	54.5

Jeffery N. Schadeneck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 209.1

Number of test holes = 4.0

Average of rates in Minutes/inch = 52.3

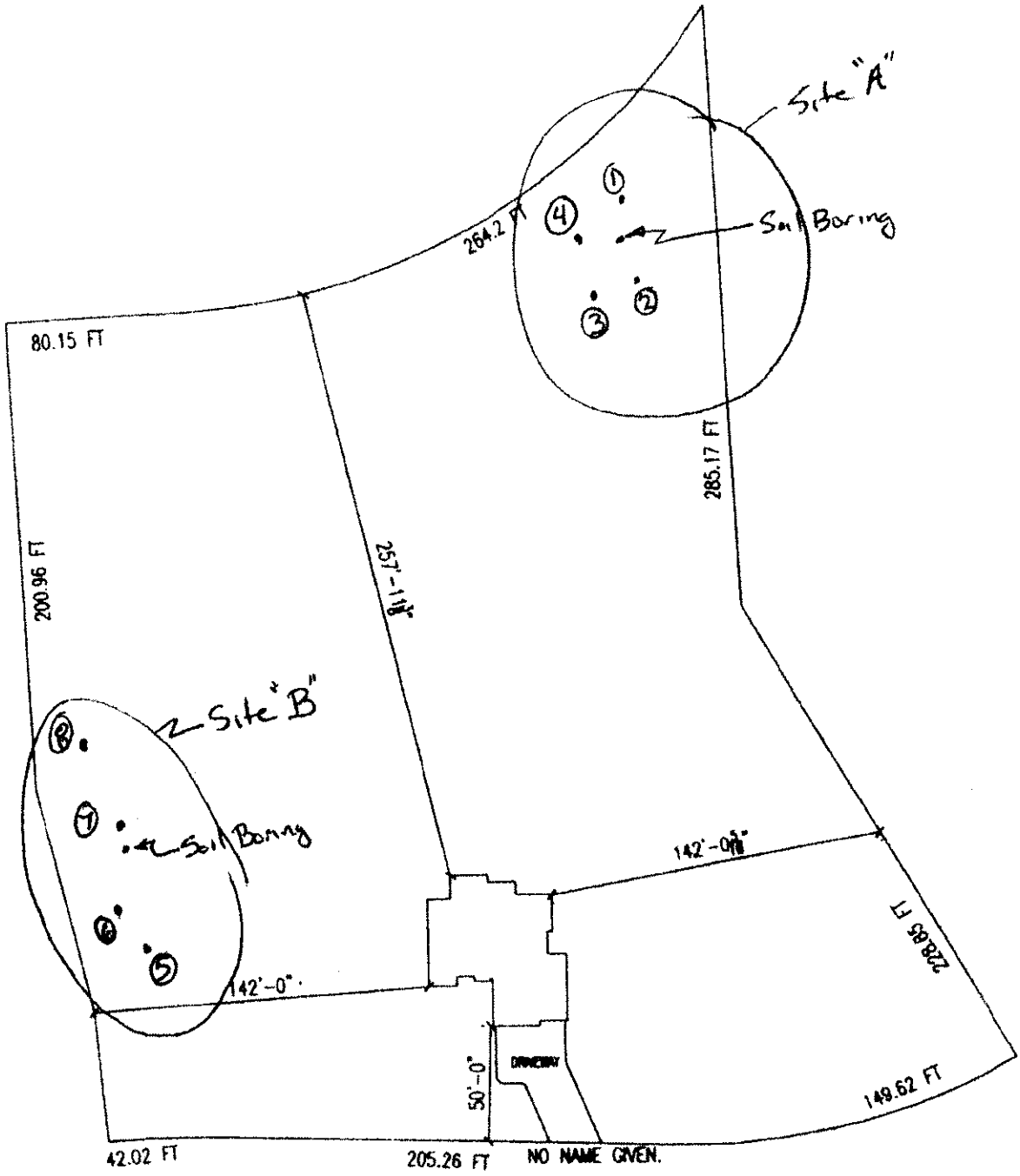
*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

Soil Boring 0-16 VDGB SiCL
16-23 DkGB CL w/Few Rd Br Mottles
23-64 Glacial Till - Mixture of Clay Loam, Gravelly Clay Loam, Small Rocks w/ Red Br Mottles

Seasonal High WT → 64" - Due to Heavy Mottling & Evidence of Moisture Present

Soil Percolation Test Site Sketch

Block 2, Lot 3, Nemaha Ridge Addition
Bennet, NE



Horizon Envirotech, LLC
(402) - 720-9209

Table 4-3. Suggested hydraulic and organic loading rates for sizing infiltration surfaces

Texture	Structure		[redacted]		Organic loading (lb BOD/1000ft²-day)	
	Shape	Grade	[redacted]	BOD=30	BOD=150	BOD=30
Coarse sand, sand, loamy coarse sand, [redacted]	Single grain	Structureless	[redacted]	1.6	1.00	0.40
Fine sand, very fine sand, loamy fine sand, loamy very fine sand	Single grain	Structureless	0.4	1.0	0.50	0.25
Coarse sandy loam, sandy loam	Massive	Structureless	0.2	0.6	0.25	0.15
	Platy	Weak	0.2	0.5	0.25	0.13
		Moderate, strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.7	0.50	0.18
		Moderate, strong	0.6	1.0	0.75	0.25
Fine sandy loam, very fine sandy loam	Massive	Structureless	0.2	0.5	0.25	0.13
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.2	0.6	0.25	0.15
		Moderate, strong	0.4	0.8	0.50	0.20
Loam	Massive	Structureless	0.2	0.5	0.25	0.13
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.6	0.50	0.15
		Moderate, strong	0.6	0.8	0.75	0.20
Silt loam	Massive	Structureless	[redacted]	0.2	0.00	0.05
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.6	0.50	0.15
		Moderate, strong	0.6	0.8	0.75	0.20
Sandy clay loam, clay loam, silty clay loam	Massive	Structureless	[redacted]			
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.2	0.3	0.25	0.08
		Moderate, strong	0.4	0.6	0.50	0.15
Sandy clay, clay, silty clay	Massive	Structureless	[redacted]			
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	[redacted]			
		Moderate, strong	0.2	0.3	0.25	0.08

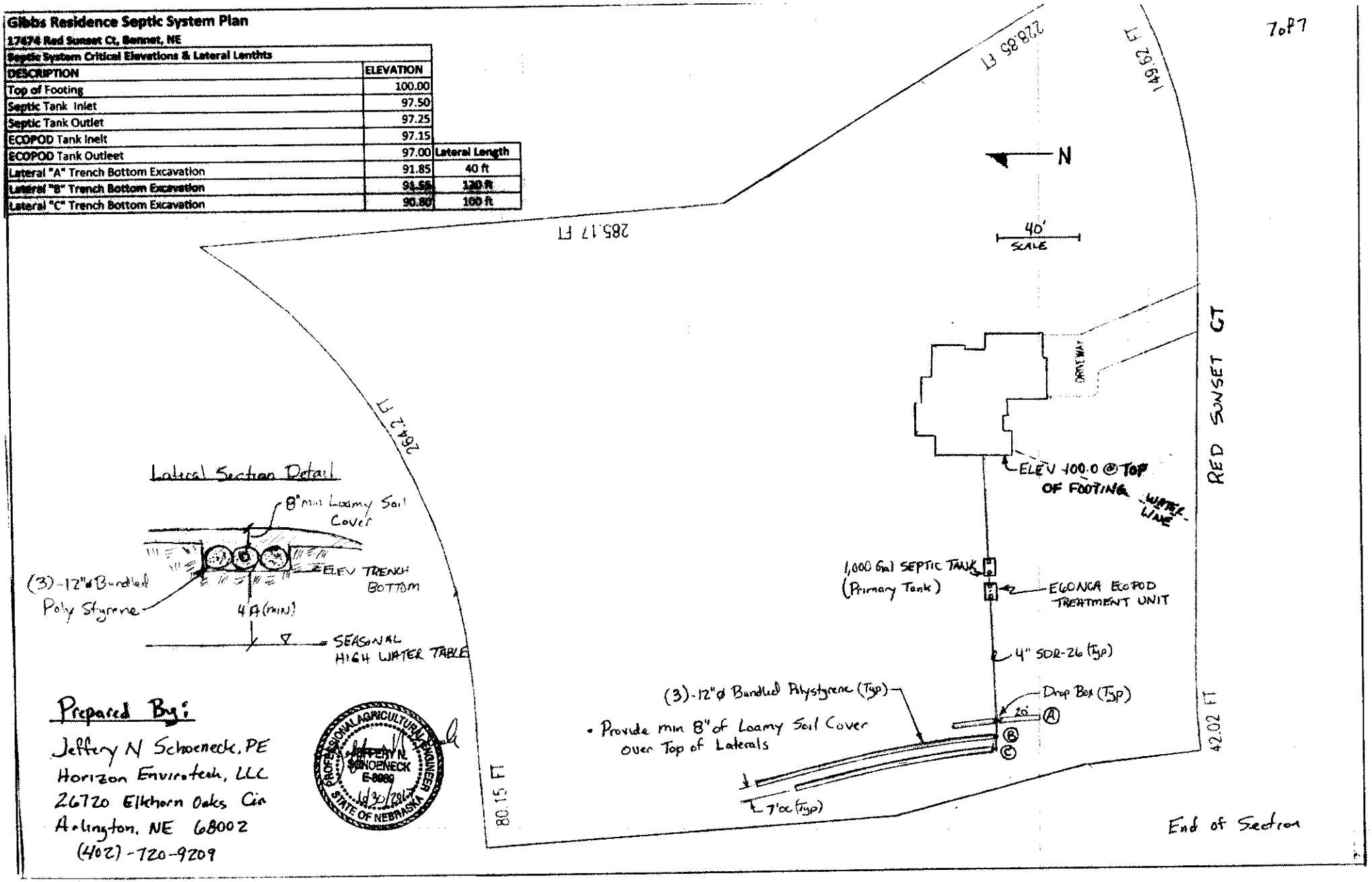
urce: [redacted]

Propose 1/3 Reduction For Lateral Sizing

Gibbs Residence Septic System Plan

17474 Red Sunset Ct, Bennet, NE

Septic System Critical Elevations & Lateral Lenhts		
DESCRIPTION	ELEVATION	
Top of Footing	100.00	
Septic Tank Inlet	97.50	
Septic Tank Outlet	97.25	
ECOPOD Tank Inelt	97.15	
ECOPOD Tank Outleet	97.00	Lateral Length
Lateral "A" Trench Bottom Excavation	91.85	40 ft
Lateral "B" Trench Bottom Excavation	91.65	120 ft
Lateral "C" Trench Bottom Excavation	90.80	100 ft



Prepared By:

Jeffery N Schoeneck, PE
Horizon Envirotech, LLC
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402)-720-9209

PROFESSIONAL AGRICULTURAL ENGINEER
JEFFERY N. SCHOENECK
E-8089
STATE OF NEBRASKA
12/30/2021

SCANNED

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

A

Permit Number
HS001550

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

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

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 17474 Red Sunset Ct. (no rural route) City Bennet , NE Zip

Legal Description 11 8 NW 8 Nemaha Ridge Addition 2 3
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID

B. Owner

Name Clayton Gibbs Signature

Address 3122 Colt Ave City/State/Zip Lincoln, NE 68507

Home Phone 205-561-7637 Work Phone

C. Certified Installer

Name: Jeffery N Schoeneck Signature Jeff Schoeneck

Address 1291 Co Rd V City/State/Zip Fremont, NE 68025

Work Phone 402-720-9209

D. Engineer ☒ **Check and complete if engineer designed system** P.E. License Number: E8989

Designer Name Jeffery N Schoeneck Firm Horizon Envirotech, LLC Work Phone 402-720-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 5 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3
Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day 600

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

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 10/10/14 Amount Paid $405.00
Received By JAE Cash/Check No. CC

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

Form A Updated 1-13

COPY

SCANNED

ental Quality

SEPTIC SYSTEM DESIGN

Prepared by: Jeffery N. Schoeneck, P.E.

Gibbs Residence – 17474 Red Sunset Ct, Bennet, NE
Lancaster County, NE

HORIZON ENVIROTECH,LLC

26720 ELKHORN OAKS CIR
ARLINGTON, NE 68002

(402)-720-9209

E-mail jeffhet@1791.com

6/30/2017

Pollution Control Project
17OWT026
Nebraska DEQ
APPROVED
8-4-2017

20170050524

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Gibbs Residence Septic System Design

6/30/2017

Peak Daily Design Load - 5 Bedroom - 600 GPD

Lateral Field Sizing

Average Soil Pecolation Rate for Site "B" (Gravity Site) - 52.3 min/in @ 14" Test Depth
Seasonal High Water Table @ 5.3 ft Below Surface
Proposed lateral field site consists of approximately 14" of Silty Clay Loam with moderate blocky structure over clay loam with weak to moderate blocky structure
Due to limited suitable soils area - Propose a 1/3 reduction in lateral field sizing with treatment using ECOPOD Unit
Required Lateral Field Size per Title 124 - 1750 sqft

Propose - 1750 X 2/3 = 1167 sqft
260 ft of (3)-12" Bundled Polystryene (260 X 4.5 sqft/ft = 1170 sqft)
Laterals to be installed at an average depth of 12" into virgin soil and provide 8" minimum cover with loamy soil

Treatment - Use Pentair Delta Enviromental ECOPOD Model E60NCA (600 GPD System)
See NSF Report Document for Treatment Process and Maintenance
Minimum Treatment Levels to be < 30mg/l BOD 5 and TSS
Contractor to provide first 2 yrs of Service
Homeowner to maintain service contract to insure proper function of system over time

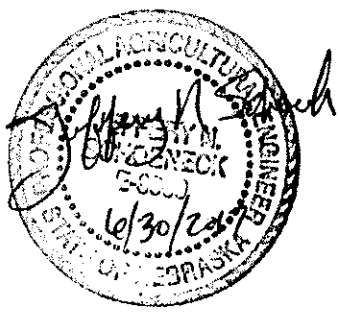
Septic Tank Sizing

ECOPOD System Requires Minimum Pretreatment/Septic Tanks Size of 600 gallons
Propose Using 1,000 gallon tank

Electical Requirements - Requires Dedicated 20 Amp, 120V, 1 Ph Circuit

Prepared By:

Jeffery N. Schoeneck, P.E.
Horizon Envirotech, LLC
26720 Elkhorn Oaks Cir
Arlington, NE 68002
402-720-9209
jeffhet@1791.com



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Component Replacement Procedure

1. Air Pump – Follow same procedure as outlined in the "Installation Instructions".
2. Float Switch – Remove Treatment Plant's Riser or 24 inch cover. Locate float switch cable. Untie knot. Cut float switch cable. Slip float switch cable through rubber grommet into the plant. Replace with exact replacement float switch. Reinstall by reversing procedure. Reconnect float switch wires using Underground Rated Compound filled wire nuts. See Float Switch Mounting Detail.
3. Pressure Switch – Turn all power off to control panel. Remove screws securing pressure switch as well as connectors and tubing. Reverse procedure to install new pressure switch.
4. Buzzer – Turn all power off to control panel. Remove screw attaching buzzer to back plate as well as connectors. Reverse procedure to install new buzzer.
5. Lamp-holder – Turn all power off to control panel. Remove lock nut securing lamp-holder to door as well as connectors. Remove lamp-holder. Install new lamp-holder with gaskets furnished. Continue with reverse procedure.
6. Lamp – Turn all power off to control panel. Remove red lamp cover from front of control panel. Remove and replace lamp which is a push in type. Replace lamp cover and cover gasket.
7. Fuse – Turn all power off to control panel. Pull top of fuse holder outward. Remove and replace fuse. Push fuse back into place.
8. Buzzer Switch – Turn all power off to control panel. Remove rubber boot on switch. Remove hex nut from switch on panel front as well as connectors on switch. Reverse procedure to install new switch.

General Comments

1. Only factory approved equipment can be used for replacement on individual treatment systems.
2. If the decision is made to pump out a system, be sure to contact a licensed waste hauler.
3. If a chronic problem develops and all items listed have been checked, consult with the factory.
4. Taking pictures of systems when troubleshooting will help document activity in the field.
5. Keep good records.

NOTE: If the entire cover needs to be removed on any one of the various model treatment plants, the existing silicone or strip seal must be removed and replaced with a new one. This will provide a positive seal which will not allow any infiltration into or out of the treatment plant.

ECOPOD-N™ Fixed Film Wastewater Treatment System Unit Specifications

Treatment Plant	Treatment Capacity (GPD)	Primary Tank Total Volume (Gal)	Reactor Tank Volume (Gal)	Reactor Tank Dilution Volume (Gal)	Media Size	Air Requirements
E50-N	500	500	710	580	2' x 2' x 4'	12 CFM
E60-N	600	600	916	736	3' x 2' x 4'	14.4 CFM
E75-N	750	750	1089	909	3' x 2' x 4'	18 CFM
E100-N	1000	1000	1427	1186	4' x 2' x 4'	24 CFM
E150-N	1500	1500	2130	1771	6' x 2' x 4'	36 CFM

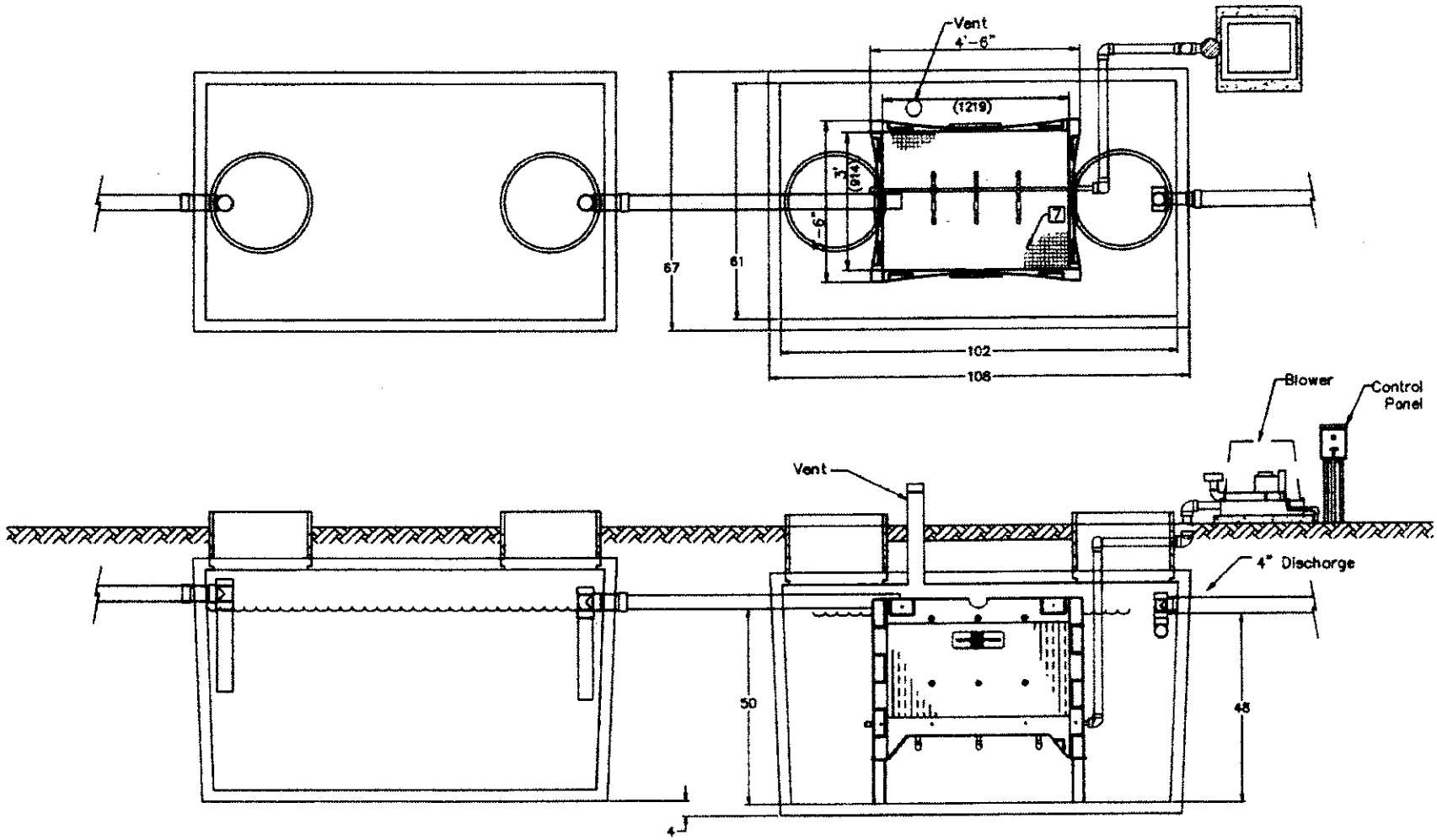
Materials Of Construction		
Suffix FF	Reactor Tank	Fiberglass
	Cover	Fiberglass
	Media Container	Fiberglass
Suffix CA	Reactor Tank	Concrete
	Cover	Concrete
	Media Container	Fiberglass

These are standard production units. Other configurations are available upon request.

Delta Environmental™

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3 of 7



1,000 GAL PRIMARY TANK

E60NCA – IN Precast 1000 Gal SEPTIC TANK

REV.	DATE	REVISION DESCRIPTION	BY

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PENTAIR
DELTA ENVIRONMENTAL®

E60NCA IN 1,000 GAL TANK ACCURATE PRECAST

PLOT SCALE	DRAWING NUMBER	DRAWN BY	DATE	SHEET	REV
NTS	E60NCA	R. DARBONNE	06/19/17	1 OF 1	A

SCANNED

4 of 7

Soil Absorption Test Data Sheet

Owner Information:

Owner: Clayton & Staci Gibbs Phone: 205-561-7637

Address: 3122 Colt Ave, Lincoln, NE 68507

Location: Block 2, Lot 3, Nemaha Ridge Addition, Bennet, NE SITE "B"

Latitude Longitude

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: 2+ Acres

Soil type: Sand/Loamy Sand _____ Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam X Silt Loam _____ Sandy Loam _____ Virgin Soil

Presaturation period:

Test Day Weather

Weather Cloudy Temp. 64 F

Start Date	Start Time	Finish Date	Finish Time
6/22/17	10:30 AM	6/22/17	2:30 PM

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
5	14	6/23/17	10:58 AM	7.40	11:28 AM	6.90	30	0.50	60.0
6	14	6/23/17	10:59 AM	7.25	11:29 AM	6.70	30	0.55	54.5
7	14	6/23/17	11:00 AM	7.50	11:30 AM	6.75	30	0.75	40.0
8	14	6/23/17	11:01 AM	7.7	11:31 AM	7.15	30	0.55	54.5

Jeffery N. Schoeneck

Jeffery N. Schoeneck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 209.1

Number of test holes = 4.0

Average of rates in Minutes/inch = 52.3

*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

Soil Boring 0-16 VDGB SiCL

16-23 DkGB CL w/Few Rd Br Mottles

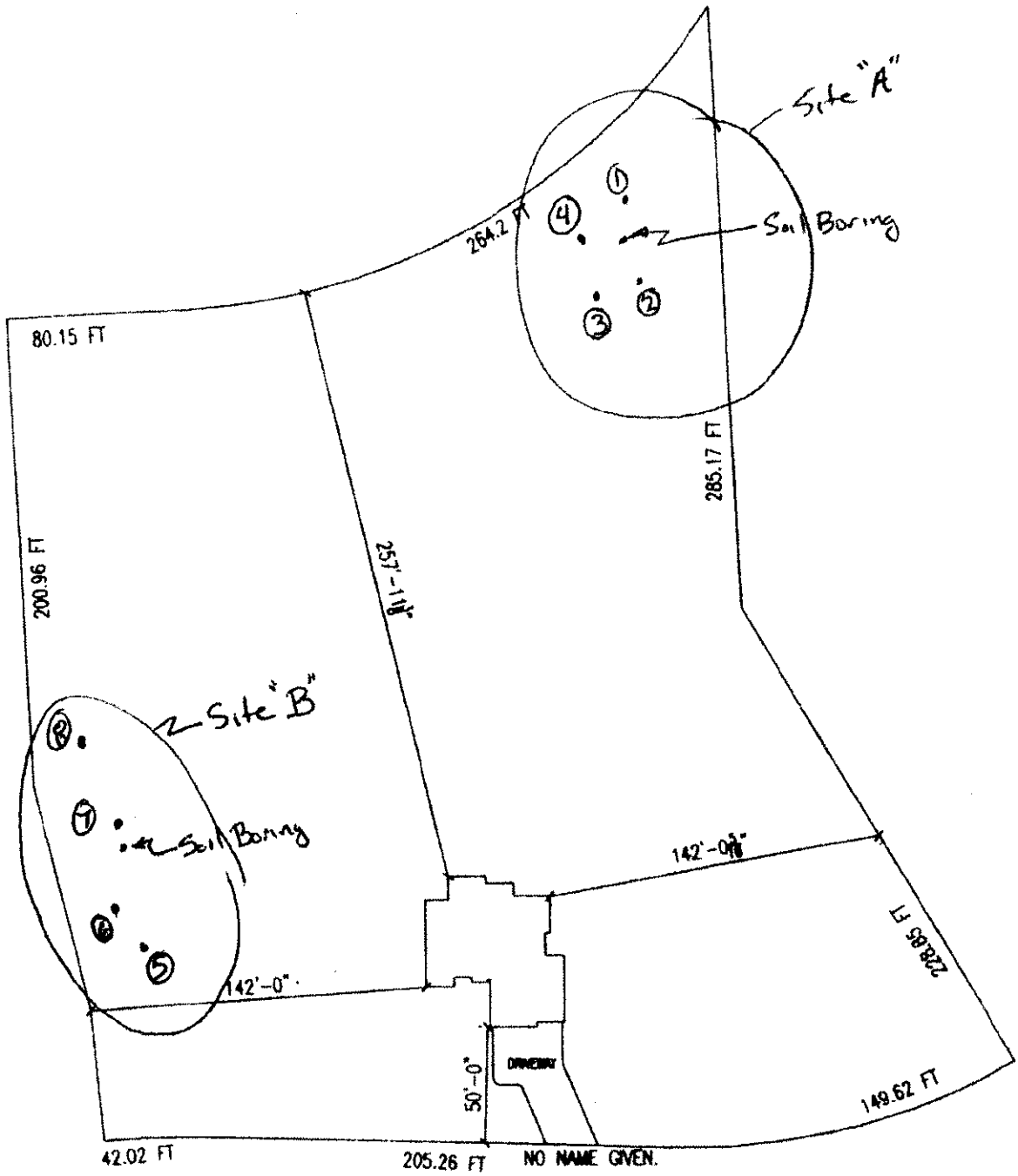
23-64 Glacial Till - Mixture of Clay Loam, Gravelly Clay Loam, Small Rocks w/ Red Br Mottles

Seasonal High WT ⇒ 64" - Due to Heavy Mottling & Evidence of Moisture Present

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Soil Percolation Test Site Sketch

Block 2, Lot 3, Nemaha Ridge Addition
Bennet, NE



Horizon Envirotech, LLC
(402) - 720-9209

SCANNED

Table 4-3. Suggested hydraulic and organic loading rates for sizing infiltration surfaces

Texture	Structure		[redacted]		Organic loading (lb BOD/1000ft²-day)	
	Shape	Grade	[redacted]	BOD=30	BOD=190	BOD=90
Coarse sand, sand, loamy coarse sand, [redacted]	Single grain	Structureless	[redacted]	1.6	1.00	0.40
Fine sand, very fine sand, loamy fine sand, loamy very fine sand	Single grain	Structureless	0.4	1.0	0.50	0.25
Coarse sandy loam, sandy loam	Massive	Structureless	0.2	0.6	0.25	0.15
	Platy	Weak	0.2	0.5	0.25	0.13
		Moderate, strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.7	0.50	0.18
		Moderate, strong	0.6	1.0	0.75	0.25
Fine sandy loam, very fine sandy loam	Massive	Structureless	0.2	0.5	0.25	0.13
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.2	0.6	0.25	0.15
		Moderate, strong	0.4	0.8	0.50	0.20
Loam	Massive	Structureless	0.2	0.5	0.25	0.13
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.6	0.50	0.15
		Moderate, strong	0.6	0.8	0.75	0.20
Silt loam	Massive	Structureless	[redacted]	0.2	0.00	0.05
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.4	0.6	0.50	0.15
		Moderate, strong	0.6	0.8	0.75	0.20
Sandy clay loam, clay loam, silty clay loam	Massive	Structureless	[redacted]			
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	0.2	0.3	0.25	0.08
		Moderate, strong	0.4	0.6	0.50	0.15
Sandy clay, clay, silty clay	Massive	Structureless	[redacted]			
	Platy	Weak, mod., strong	[redacted]			
	Prismatic, blocky, granular	Weak	[redacted]			
		Moderate, strong	0.2	0.3	0.25	0.08

urce: [redacted]

Propose 1/3 Reduction For Lateral Sizing

Gibbs Residence Septic System Plan

17674 Red Sunset Ct, Bennet, NE

Septic System Critical Elevations & Lateral Lenthts		
DESCRIPTION	ELEVATION	
Top of Footing	100.00	
Septic Tank Inlet	97.50	
Septic Tank Outlet	97.25	
ECOPOD Tank Inelt	97.15	
ECOPOD Tank Outleet	97.00	Lateral Length
Lateral "A" Trench Bottom Excavation	91.85	40 ft
Lateral "B" Trench Bottom Excavation	91.55	120 ft
Lateral "C" Trench Bottom Excavation	90.80	100 ft

SCANNED

228.85 FT

149.64 FT

285.17 FT

264.2 FT

80.15 FT

42.02 FT

N

40' SCALE

RED SUNSET CT

DRIVEWAY

ELEV 100.0 @ TOP OF FOOTING

WATER LINE

1,000 Gal SEPTIC TANK (Primary Tank)

ECONCA ECOPOD TREATMENT UNIT

4" SDR-26 (Typ)

(3)-12"ø Bundled Polystyrene (Typ)

Drop Box (Typ)

20'

A

B

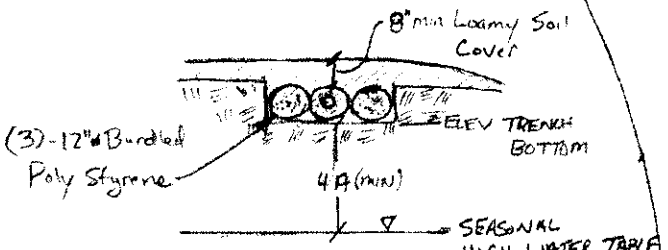
C

7'oc (Typ)

- Provide min 8" of Loamy Soil Cover over Top of Laterals

End of Section

Lateral Section Detail



Prepared By:

Jeffery N Schoeneck, PE
Horizon Envirotech, LLC
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402)-720-9209

PROFESSIONAL AGRICULTURAL ENGINEER
JEFFERY N. SCHOENECK
E-9989
STATE OF NEBRASKA
12/30/2016

LANCASTER COUNTY ASSESSOR

County Assessor/Register of Deeds

Home
General Information
News
FAQ
Searches
- PID
- Owner
- Address
- Advanced Search

Property Data
- **Detail Sheet**
- Datasheet

Other
- Deed Search
- Transfer Search
- Mobile Mapping

Property Detail Sheet (R404801)

Treasurer Info | GIS Map | Datasheet | Comp Sales | View Images

Owner Information

Owner Name:	RYBAK HOMES INC
Owner Address:	12555 NW 98 ST MALCOLM,NE 68402
Property Address:	17474 RED SUNSET CT LINCOLN, NE

Parcel Information

Legal Description:	NEMAHA RIDGE ADDITION, BLOCK 2, Lot 3
Property ID:	21-11-202-003-000
Exemption Codes:	
Primary Class:	A2(Ag Unimproved)
Primary Use:	13(Agricultural)
Zoning:	AG(AG-Agriculture District)
Neighborhood:	3400S(Rural 3400S)
Year Built:	N/A
Imp Type:	N/A
No of Buildings:	0
Total Living Area:	

Sales History

Instrument #	Sale Date	Sale Price
2017016376	04/21/2017	69,000

Values Breakdown	2017 Assessed Value
Total Non-Ag Assessed:	$0
Total Ag Sp Assessed:	$5,500

Get Adobe Reader

A recent version of Adobe Acrobat Reader is required to view PDF documents. Acrobat Reader is a free program available here.

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. HS001550

System Type: Standard

Situs: 17474 RED SUNSET CT, LINCOLN, NE

Issued: 10/30/2017

Expires: 10/30/2018

Description: NEMAHA RIDGE ADDITION, BLOCK 2, Lot 3

Owner: RYBAK HOMES INC
12555 NW 98 ST
MALCOLM, NE 68402

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

JEFFERY SCHOENECK
1291 CO RD V
FREMONT, NE 68025

SCANNED

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

A

Permit Number
#S001550

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

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

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 17474 Red Sunset Ct. (no rural route) City Bennet, NE Zip

Legal Description 11 8 NW 8 Nemaha Ridge Addition 2 3
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID

B. Owner

Name Clayton Gibbs Signature

Address 3122 Colt Ave City/State/Zip Lincoln, NE 68507

Home Phone 205-561-7637 Work Phone

C. Certified Installer

Name: Jeffery N Schoeneck Signature Jeff Schoeneck

Address 1291 Co Rd V City/State/Zip Fremont, NE 68025

Work Phone 402-720-9209

D. Engineer ☒ **Check and complete if engineer designed system** P.E. License Number: E 8989

Designer Name Jeffery N Schoeneck Firm Horizon Envirotech, LLC Work Phone 402-720-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 5 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 3
Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day 600

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

1. Health Department
Site visits Date rec'd
Date frwd
Comments
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 9/20/18

Business Office Use Only
Date Received 10/10/17 Amount Paid $405.00
Received By Cash/Check No. CC

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

Form A Updated: 1 13

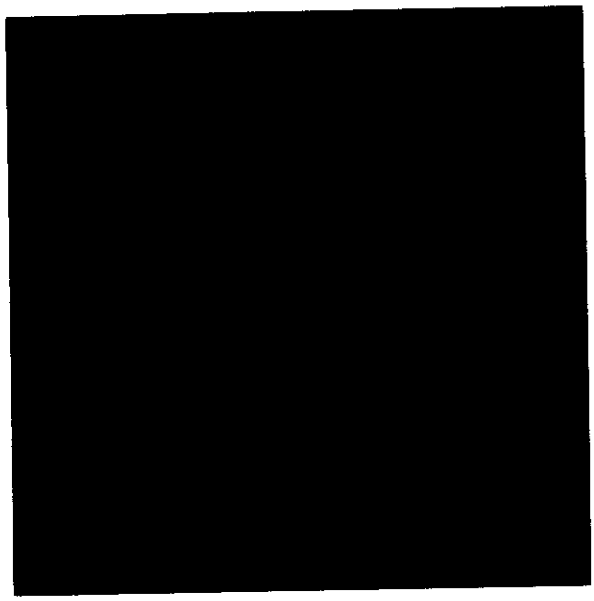
* Cancel prior to inspection

Nate C. Hartman

From: jeffhet@1791.com
Sent: Saturday, October 14, 2017 9:46 AM
To: Nate C. Hartman
Subject: Gibbs Septic Form D
Attachments: Gibbs Septic Form D 17474 Red Sunset Ct Bennet.pdf

Attached is the form D.

Regards,
Jeff Schoeneck



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

D Exhibit 4

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) 17474 Red Sunset Ct, Bennet, NE

Owner: Clayton Gibbs Address 3122 Colt. Ave, Lincoln, NE 68507

A. Wastewater Piping

1. Material: SDR-26 Diameter: 4 in.
2. Distance between dwelling and septic tank: 49 ft.

B. Septic Tank

1. Material Concrete
2. Capacity: 1,000gal Septic & 1,000 Gal Acrobic Tank
3. Depth to top of tank, below unfinished grade: 18 in.
4. Distance to:
   Well N/A ft.
   Pressure line ____ ft
   Property Line ____ ft.
   Foundation ____ ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank 61 ft. W

D. Drainfield/Absorption Field

☒ Trench ❑ Bed

1. Type: ❑ Perforated Pipe ❑ Chamberless ☒ Other
   Material brand and inside width of Chamberless: InfiHrator (3) x 12" Bunded Polystyrene
2. Number of Laterals: 3
3. Length of each lataral (linear): ft. 20 ft. 120 ft. 100 ft. ____
4. Drainfield size: 1170 sq. ft.
5. Distance to:
   Well N/A ft.
   Pressure line 225 ft.
   Property line 15 ft.
   Depth of Groundwater 4.1 Ft to Bottom of Laterals

Refer to NDEQ Permit 170W026 & Submitted Plans

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: Jeffery N Schoenek Date: 10/11/2017

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

Lori A. Cook

From: Jeffrey O. Chambers
Sent: Tuesday, October 31, 2017 9:57 AM
To: Lori A. Cook
Subject: RE: 17474 Red Sunset Ct. Overpayment

I saw Nate in the hall this morning. He asked if there's anything else he needed to do. I told him that you needed the other case number and he said you have that. Will you be initiating the payment voucher for the refund? I think we'll also need to get Accela updated to show one of the payments were voided/refunded.

From: Lori A. Cook
Sent: Monday, October 30, 2017 1:07 PM
To: Nate C. Hartman <nhartman@lincoln.ne.gov>; John J. Chess <jchess@lincoln.ne.gov>; Jeffrey O. Chambers <JChambers@lincoln.ne.gov>
Cc: Janet O'Neal <JONeal@lincoln.ne.gov>
Subject: RE: 17474 Red Sunset Ct. Overpayment

Nate, what is the other case number on this if it was entered twice?

Thank you!

Lori Cook
Senior Office Assistant
Lincoln-Lancaster County
Health Department
Environment Public Health
402-441-8040
Fax 402-441-3890

From: Nate C. Hartman
Sent: Monday, October 30, 2017 12:58 PM
To: John J. Chess <jchess@lincoln.ne.gov>; Jeffrey O. Chambers <JChambers@lincoln.ne.gov>
Cc: Lori A. Cook <lcook@lincoln.ne.gov>; Janet O'Neal <JONeal@lincoln.ne.gov>
Subject: RE: 17474 Red Sunset Ct. Overpayment

Jeff:

Please send a refund check to:

Raymond Contracting
13800 NW 70th
Raymond, Ne 68428

For the amount of $395.00. The applicable Accella Case number is HS001456 for record.

A permit was paid for twice and receipted. I have attached the supervisor's approval.

Please let me know if you need anything else.

Nate Hartman REHS, QCIS, QPSWPPP
Senior Environmental Health Specialist
Water Quality Section
Lincoln-Lancaster County Health Department
(402) 441-8643 Fax (402) 441-3890

From: John J. Chess
Sent: Tuesday, October 24, 2017 5:00 PM
To: Nate C. Hartman <nhartman@lincoln.ne.gov>; Jeffrey O. Chambers <JChambers@lincoln.ne.gov>
Subject: FW: 17474 Red Sunset Ct. Overpayment

Ok on the refund

From: jeffhet@1791.com [mailto:jeffhet@1791.com]
Sent: Tuesday, October 24, 2017 3:19 PM
To: Nate C. Hartman <nhartman@lincoln.ne.gov>
Cc: 'jakoubek63@windstream.net' <jakoubek63@windstream.net>; John J. Chess <jchess@lincoln.ne.gov>
Subject: RE: 17474 Red Sunset Ct. Overpayment

Nate,

I am fine with Raymond Contracting receiving the refund.

Regards,
Jeff Schoeneck
Horizon Envirotech, LLC
402-720-9209

-----Original Message-----
From: "Nate C. Hartman" <nhartman@lincoln.ne.gov>
Sent: Monday, October 23, 2017 4:36pm
To: "'jeffhet@1791.com'" <jeffhet@1791.com>, "'jakoubek63@windstream.net'" <jakoubek63@windstream.net>
Cc: "John J. Chess" <jchess@lincoln.ne.gov>
Subject: 17474 Red Sunset Ct. Overpayment

All:

As a follow-up, I want to make sure that everyone is on the same page with this. To be clear, the only reason that I am sending this a group email is because in know that you folks have worked together in the past. This property was accidentally permitted twice.-A flaw in our computer system. As I have been out for an extended period, I didn't know if any contact had been made between Raymond Contracting and Jeff Schoeneck. Our department is willing to process a refund to one of you for the overpayment. It will require some additional communication for all parties involved however. First, I will need a request, in writing (email is fine), from one of you. And second, I will need an acknowledgement statement (again, email is fine) from the other party.

As I said, typically I wouldn't provide this option. But since I know that you all work together what seems like fairly regularly, I will let you folks determine how to proceed. I apologize for any inconvenience.

If anyone has any questions, please let me know asap.

Thanks all!

Nate Hartman REHS, QCIS, QPSWPPP
Senior Environmental Health Specialist
Water Quality Section
Lincoln-Lancaster County Health Department
(402) 441-8643 Fax (402) 441-3890

DigiSign: 9C78D7DC-EC05-43C4-A67E-7F7FE6DA0600

SCANNED MAY 1 2 2017

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

A

Permit Number
HS001456

New Construction

Onsite Wastewater Treatment System
Request for Site Clearance and Pe

Include Form B and C.

10-30-17

3 acres or more required for: ☐ Septic System ☒ Lagoon ☐ Other (Refer

The undersigned hereby requests site clearance and permit to c
Wastewater Treatment System in conformance with appropriate

Address entered into Accela twice HS001456. Rejunding money to Raymond Contracting, Other case HS001550. hoi

PLEASE PRINT OR TYPE

A. Onsite System Location

Address _____ City Bennet
(no rural route)

Legal Description SE 11 8N 8E Nemaha Ridge
1/4 1/4 Section Township Range Subdivison

PID 21-11-202-003-000

B. Owner

Name Staci and Clayton Gibbs Signature Staci A. Gi

Address 3122 Colt Ave City/State/Zip Lincoln NE 685

Home Phone 402 764-2489 Work Phone

C. Certified Installer

Name: Lloyd Jakoubek, Raymond Contracting Inc Signature

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009 or 402-783-2663

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 3.01
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 ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

1. Health Department
Site visits _____
Comments _____
Date rec'd 5/5/17
Date frwd 5/15/17
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 5-12-17 Amount Paid $395.00
Received By SB Cash/Check No. 9153

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

Form A Updated: 1/13

Nate C. Hartman

From: Village of Bennet <bennetvlg@diodecom.net>
Sent: Tuesday, May 02, 2017 12:49 PM
To: Nate C. Hartman
Subject: Bennet

Nate, The Village of Bennet approves private septic systems for Nemaha Ridge Subdivision, Bock 2 Lots 7, 9 and 3. Please provide us the completed information, when available, for our files showing approval by your office. Thanks!

Patricia Rule
Bennet Village Clerk
402-782-3300

Nate C. Hartman

From: jakoubek63@windstream.net
Sent: Wednesday, October 25, 2017 10:54 AM
To: Nate C. Hartman
Cc: John J. Chess; jeffhet@1791.com
Subject: RE: 17474 Red Sunset Ct. Overpayment

That works for me as well. I will pass the refund on to the builder.

Thanks,
--
Terri Jakoubek
Raymond Contracting, Inc.
13800 NW 70th St
Raymond, NE 68428
402-783-2663 (Office)
402-783-2341 (Fax)
402-890-3870 (Mobile)
jakoubek63@windstream.net

---- jeffhet@1791.com wrote:
>
Nate,

I am fine with Raymond Contracting receiving the refund.

Regards,
Jeff Schoeneck
Horizon Envirotech, LLC
402-720-9209

-----Original Message-----
From: "Nate C. Hartman" <nhartman@lincoln.ne.gov>
Sent: Monday, October 23, 2017 4:36pm
To: "'jeffhet@1791.com'" <jeffhet@1791.com>, "'jakoubek63@windstream.net'" <jakoubek63@windstream.net>
Cc: "John J. Chess" <jchess@lincoln.ne.gov>
Subject: 17474 Red Sunset Ct. Overpayment

All:

As a follow-up, I want to make sure that everyone is on the same page with this. To be clear, the only reason that I am sending this a group email is because in know that you folks have worked together in the past. This property was accidentally permitted twice.-A flaw in our computer system. As I have been out for an extended period, I didn't know if any contact had been made between Raymond Contracting and Jeff Schoeneck. Our department is willing to process a refund to one of you for the overpayment. It will require some additional communication for all parties involved

however. First, I will need a request, in writing (email is fine), from one of you. And second, I will need an acknowledgement statement (again, email is fine) from the other party.

As I said, typically I wouldn't provide this option. But since I know that you all work together what seems like fairly regularly, I will let you folks determine how to proceed. I apologize for any inconvenience.

If anyone has any questions, please let me know asap.

Thanks all!

Nate Hartman REHS, QCIS, QPSWPPP
Senior Environmental Health Specialist
Water Quality Section
Lincoln-Lancaster County Health Department
(402) 441-8643 Fax (402) 441-3890

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