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

A

Permit Number HS001639

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 3403 W. Van Dorn

A. Onsite System Location

Address* 3201 S. Coddington Ave City Lincoln, NE Zip _____
(no rural route)

Legal Description Arnwood Bowl
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 09-05-300-001-000 *Approx. Address (If to be determined) _____

B. Owner

Name _____ Signature _____

Address _____ City/State/Zip _____

Home Phone _____ Work Phone _____

C. Certified Installer

Name: Haes Excavating Inc. Signature _____

Address 9800 Branigan Road City/State/Zip Lincoln, NE 68526

Work Phone _____

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 _____ Whirlpool Bathtub? ☐ Yes ☐ No Total Acres _____
Garbage Grinder? ☐ Yes ☐ No

☒ Commercial Establishment/Other Facility Specify _____ Design flow in gallons per day 1715

Type of Wastewater ☒ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process

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

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

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

Installation Final Written Approval
By _____
Date _____

Business Office Use Only
Date Received 4-11-18 Amount Paid $405.00
Received By JAO Cash/Check No. 1983

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

Pinewood Bowl Water Flows **September 25, 2017**

REGA Project Number 171170
Design Criteria:

15-1 day shows with 6,000 people for 4 hours/event (Event Attendees will use porta potties).
Scene shop 30 stage hands split 75% female and 25% male.
15-1 day shows with 100 staff on staff 2 days before show and one day after show (Staff is split 25% female and 75% male).
10 Performers per event (Event performers will be split 50% female and 50% male).

Fixture	Number of Fixtures	Flow from Fixture	Total Gallons of Flow/Per Day

West Public Restrooms:

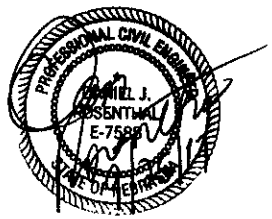
100 Staff 1 day before show and day of show for 18 hours per day and 1- 8 hour day for tear down. Staff split is 75% male and 25% female.

Sink (Men's) Event Staff	2	2.2 gpm	[2 sinks] 75 Male Staff * 50% use sink * 2 uses per day * 2.2 gpm * 2.0 minutes per use = **330 gal/day ES**
Sink (Women's) Event Staff	2	2.2 gpm	[2 sinks] 25 Female Staff * 50% use sink * 2 uses per day * 2.2 gpm * 2.0 minutes per use = **110 gal/day ES**
Urinal Event Staff	3	1.0 gpf	[3 urinals] 75 male staff * 75% * 4 uses per day * 1.0 gal per flush = **225 gal/day ES**
WC (Men's) Event Staff	3	1.6 gpf	[3 water closets] 75 male staff * 25% * 2 uses per day * 1.6 gal per flush = **60 gal/day ES**
WC (Women's) Event Staff	5	1.6 gpf	[5 water closets] 25 female staff * 3 use per day * 1.6 gal per flush = **120 gal/day ES**

EVENT STAFF TOTAL = 845 gal/day

Scene Shop: 30 stage hands for 7 days a week for 7 weeks at 3 hours per day. Stage hand split is 75% female and 25% male.

Service Sink (mop sink)	1	2.2 gpm	25 gal/day per sink = **50 gal/day**
Sink	1	2.2 gpm	[1 sink] 30 stage hands * 50% * 2 uses per day * 2.2 gpm * 2.0 minutes per use = **132 gal/day**
Shower	1	2.5 gpm	4 Shower per day 10 min = **100 gal/day**
Water Closet	1	1.6 gpf	30 stage hands *75% * 2 use per day * 1.6 gal per flush = **72 gal/day**
Floor Drain	1	5 gal/day	Flow from condensation lines = **5 gal/day**



SCENE SHOP TOTAL = 359 gal/day

<u>Performers Entertainment Facility:</u> 15 Shows May thru Sept with 10 performers for each event for 1 day at 12 hours and day of performance at 12 hours. Performer split is 50% male and 50% female.

Sink (Men's)	2	2.2 gpm	[2 sinks] 5 male performers * 50% use sink * 2 uses per day * 2.2 gpm * 2.0 minutes per use = **22 gal/day**
Sink (Women's)	2	2.2 gpm	[2 sinks] 5 female performers* 75% use sink * 2 uses per day * 2.2 gpm * 2.0 minutes per use = **33 gal/day**
Shower (Men's)	4	2.5 gpm	4 Shower per day 10 min = **100 gal/day**
Shower (Women's)	1	2.5 gpm	4 Shower per day 10 min = **100 gal/day**
Urinal	2	1.0 gpf	[2 urinals] 5 male performers * 75% * 2 uses per day * 1.0 gal per flush = **7.5 gal/day**
Water Closet (Men's)	2	1.6 gpf	[2 water closets] 5 male performers * 100% * 1 use per day * 1.6 gal per flush = **8.0 gal/day**
Water Closet (Women's)	4	1.6 gpf	[4 water closets] 5 women performers * 100% * 3 use per day * 1.6 gal per flush = **240 gal/day**

PERFORMERS TOTAL = 510.5 gal/day

Design Total for Event Staff, Scene Shop and Performers = 1,714.50 gal/day

Recommend designing the septic system for the following uses only, scene shop, performers building and for event staff. All remaining uses would use porta potties.

NEBRASKA

Good Life. Great Environment.

DEPT. OF ENVIRONMENTAL QUALITY

COPY

Pete Ricketts, Governor

DEC 6 2017

J.J. Yost
Lincoln Parks & Recreation Department
3140 N Street, Suite 300
Lincoln, NE 68510

RE: Construction Permit No. **17OWT037**
Onsite Wastewater Treatment System
Pinewood Bowl, Pioneers Park
NE ¼, SE ¼, S05 – T09N – R06E, Lancaster County

NDEQ ID: **64178**
Program ID: **17OWT037**

Dear Mr. Yost:

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 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.

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

Shelley Schneider
Water Permits Division Administrator

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

SS/MB
Cc: Dan Rosenthal, REGA Engineering, 601 Old Cheney Road, Suite A, Lincoln, NE 68512
Nate Hatrman, Lincoln – Lancaster County Health Department, 3140 N Street, Lincoln, NE 68510

Nebraska Department of Environmental Quality

Construction Permit No. 17OWT037

is hereby issued to

J.J. Yost

for

City of Lincoln, Parks & Recreation Dep't.

for the

1,715 Gal/Day Onsite Wastewater Treatment System

Description:

Two 1,250 gallon septic tanks in series, discharging to a distribution box, followed by a three trench soil absorption system, consisting of bundled expanded polystyrene tubes in three-foot wide trenches, each trench with a total length of 80 feet. The design soil percolation rate is 9 mpi. The minimum soil absorption area is 1,040 square feet.

located at

Pinewood Bowl, Pioneers Park, Lincoln, NE
NE ¼, SE ¼, S05 – T09N – R06E, 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 12/4/17

Shelley Schneider

Shelley Schneider, Water Permits Division Administrator

2012043E35

Suite 400, The Atrium, 1200 "N" Street, P. O. Box 98922, Lincoln, Nebraska, 68509-8922
Phone (402) 471-2186, Fax (402) 471-2909

Onsite Wastewater Treatment System Application for Construction/Operating Permit

Nebraska DEQ

For NDEQ Use Only	NDEQ ID:	Program ID:

Print or Type

JJ — Initial

Yost — Last Name

Owner/Authorized Representative First Name

Lincoln Parks and Recreation

Business or Legal Entity Name (if applicable)

2740 "A" Street — Lincoln — NE — 68510

Owner Address — City — State — Zip

Phone Number 402-441-7847 Email jyost@lincoln.ne.gov

[X] Check here if authorized representative and include a description of the representative's authority to sign on behalf of the owner. Authorized representative is a professional engineer and designed system.

Professional Engineer, Master Installer or Registered Environmental Health Specialist

Print or Type

Dan — Initial — Rosenthal — Last Name — E-7588 Certification/License Number

REGA Engineering Group, Inc.

Company Name

601 Old Cheney, Suite A — Lincoln — NE — 68512

Mailing Address — City — State — Zip

Phone Number 402-484-7342 Email dan@regaeng.com

Location *Legal description* OR *Geographical coordinates to 4 decimal points*

NE ¼ SE ¼ Section 5 Township 9N Range 6E — Lancaster County — 140°46'36" Latitude — 96°45'40" Longitude

Pioneers Park, Lincoln

Physical address if different than owner's mailing address

System Information

[X] Dwelling-Peak single day flow _____ gals **OR** [ ] Non-dwelling-Peak single day flow _____ gals

[ ] Domestic Wastewater [X] Non-Domestic Wastewater -Description of non-domestic wastewater sources (i.e. restaurant, laundry, butcher shop, camper dump station or other) outdoor concert venue.

[X] New System [ ] Modification, reconstruction or alteration of existing system

[X] Septic System [ ] Mound [ ] Holding tank [ ] Lagoon [ ] Other (if other, describe here)_____

Depth to seasonal high groundwater for planned location of the soil absorption system _____ ft.

Percolation rate 9.2 min/inch Maximum ground slope 1.0 %

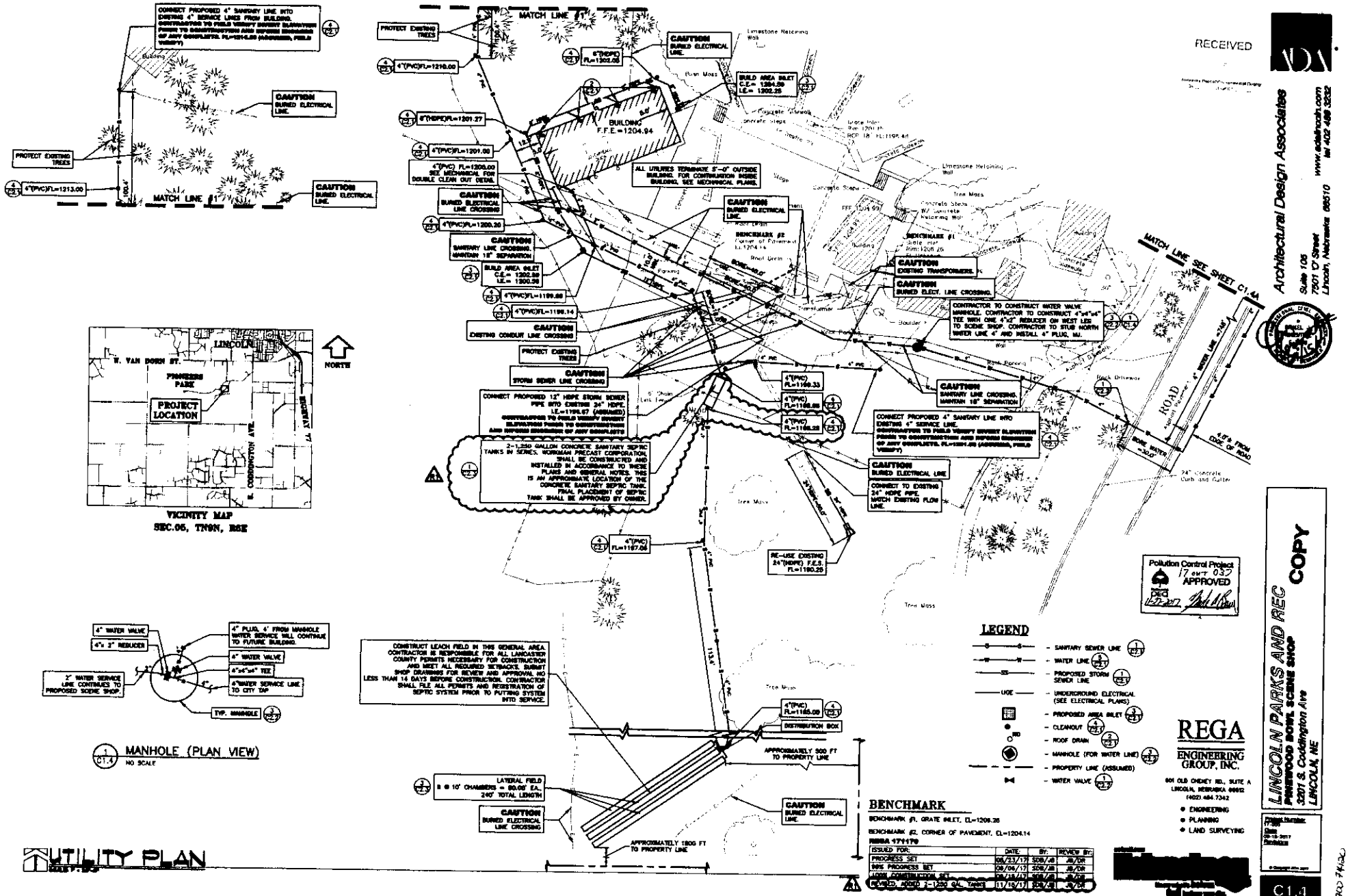
I swear or affirm that the application information and documentation submitted are true, complete and accurate.

Dan Rosenthal — Owner/Authorized Representative Signature

10/3/17 — Date

NOTICE: Failure to complete the form or include the appropriate fee(s) will delay the application. NDEQ issued construction permit is required prior to any construction.

Version 5-2012



ISSUED FOR:	DATE:	BY:	REVIEW BY:
PROGRESS SET	08/23/17	SDW/JB	JB/DR
90% PROGRESS SET	09/06/17	SDW/JB	JB/DR
100% CONSTRUCTION SET	09/15/17	SDW/JB	JB/DR
REVISED 2000 S. 1220 GAL TANK	11/15/17	SDW/JB	JB/DR

REGA ENGINEERING GROUP, INC.
601 OLD CHENEY RD., SUITE A
LINCOLN, NEBRASKA 68512
(402) 484.7342
- ENGINEERING
- PLANNING
- LAND SURVEYING

Architectural Design Associates
Suite 105
7501 O' Street
Lincoln, Nebraska 68510
www.adalincoln.com
tel 402 466 3232

LINCOLN PARKS AND REC
PINEWOOD BOWL SCENE SHOP
3201 S. Coddington Ave
LINCOLN, NE

COPY

C1.4

GENERAL NOTES

CONSTRUCTION:

CONTRACTOR TO PAY FOR ALL PERMIT, INSPECTION AND TESTING COSTS.

CONTRACTOR SHALL USE SURVEY CONTROL POINT AND BENCH LOCATIONS AS SHOWN ON THE PLANS TO LOCATE SEPTIC SYSTEM.

ALL CONSTRUCTION OF THE SEPTIC SYSTEM SHALL BE IN ACCORDANCE WITH TITLE 124 OF THE NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS AND AS FOLLOW:

CONTRACTOR SHALL BE A CERTIFIED ONSITE WASTEWATER SYSTEM INSTALLER AS PER TITLE 124, CHAPTER 20.

CONTRACTOR SHALL LOCATE THE SEPTIC SYSTEM AS PER THE PLANS AND VERIFIED BY OWNER.

CONTRACTOR SHALL REMOVE ALL VEGETATION FROM LATERAL FLOOR.

THE CONTRACTOR SHALL CONSTRUCT THE LATERAL FLOOR LEVEL WITH A 3 INCH MAXIMUM DEFLECTION.

ALL SANITARY SEWER LINES SHALL BE 4" SDR 26, AND SHALL HAVE A GRADE NOT LESS THEN 1/8 INCH PER FOOT.

ALL LINES SHALL BE EQUIPPED WITH CLEAN-OUTS WITH TIGHT FITTING CAPS EVERY 75 FEET OR LESS AND WHERE ANGLES GREATER THAT 45 DEGREES ARE ENCOUNTERED.

THE OUTLET LINE SHALL BE LAID AT THE CENTER OF THE LATERAL FLOOR AT 0% SLOPE.

CONTRACTOR SHALL REGISTER THE SEPTIC SYSTEM WITH NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY PER TITLE 124, CHAPTER 22, WITHIN 45 DAYS OF COMPLETION OF INSTALLATION. CONTRACTOR TO PAY ALL PERMIT COSTS.

ALL UTILITY LINES ARE STOPPED 5' FROM BUILDING, SEE MECHANICAL PLANS FOR CONTINUATION.

TRACER WIRE
USE TRACER WIRE WITH ALL PVC AND HDPE PIPE. WIRE SHALL BE NO. 12 AWG SOLID COPPER CONDUCTOR WITH TYPE THWN INSULATION. TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE NEW PIPE. TERMINATE TRACER WIRE AT BEGINNING AND ENDING OF EACH UTILITY WITH A 2"X12" PVC PIPE AND 24" OF TRACER WIRE COILED INSIDE OF CAPPED PVC PIPE.

ALL COSTS FOR TEST ARE TO BE PAID FOR BY CONTRACTOR.

SANITARY SEPTIC TANK:

A1 1,250 GALLON CONCRETE SANITARY SINGLE COMPARTMENT SEPTIC TANK WITH 24" CONCRETE RISER AND CONCRETE REINFORCED LID. CONCRETE LID AND RISER SHALL EXTEND 6" ABOVE FINISHED GRADE. SEE DETAILS. (1/C2.3)

CONCRETE SANITARY SEPTIC TANK SHALL BE WATER TIGHT AND MEET THE REQUIREMENTS OF TITLE 124 OF THE NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY FOR CONSTRUCTION OF SEPTIC TANK AND INSTALLATION OF SEPTIC TANK.

THE INLET INVERT SHALL BE NO LESS THEN 2 INCHES ABOVE THE OUTLET INVERT.

TANK SHALL BE INSTALLED AS PER MANUFACTURES RECOMMENDATIONS.

EXCAVATION OF AREA AROUND TANK SHALL BE SUFFICIENT TO INSTALL TANK AND MAKE ALL NECESSARY CONNECTIONS.

CONTRACTOR SHALL BACKFILL AROUND TANK IN 1 FOOT LIFTS AND COMPACT EACH BACKFILL LIFT. SEE SPECIFICATION SECTION SECTION 31.20.00 FOR COMPACTION AND DENSITY TESTING REQUIREMENTS.

COMPACTION SHALL BE NON-MECHANICAL METHOD.
THE CONTRACTOR CAN ELECT TO FILL THE TANK WITH CLEAN WATER AND SOAK THE BACKFILL AROUND THE TANK. CONTRACTOR SHALL PUMP TANK AFTER BACKFILLED AND SOAKING IS COMPLETE.
CONTRACTOR SHALL FINAL GRADE AROUND SANITARY SEPTIC TANK.

INFILTRATION ABSORPTION SYSTEM:

BUNDLED EXPANDED POLYSTYRENE SYNTHETIC AGGREGATE CONTAINED IN HIGH-STRENGTH POLYETHYLENE NETTING IN 12" DIA CYLINDERS. SEE DETAIL: (3/C2.3)

DISTRIBUTION BOX:

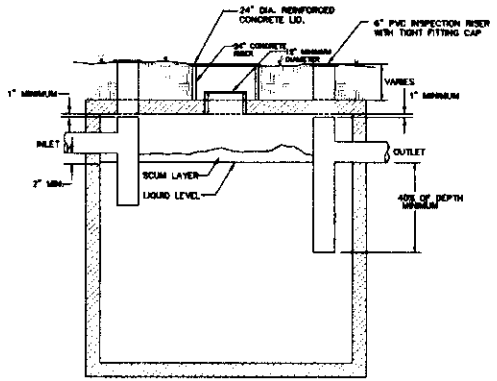
DISTRIBUTION BOX SHALL BE CONSTRUCTED IN ACCORDANCE WITH TITLE 124 OF THE NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS.

AS-BUILTS:

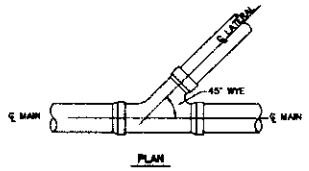
CONSTRUCTION AS-BUILTS ARE REQUIRED FOR CLOSE-OUT DOCUMENTATION.

SEEDING:

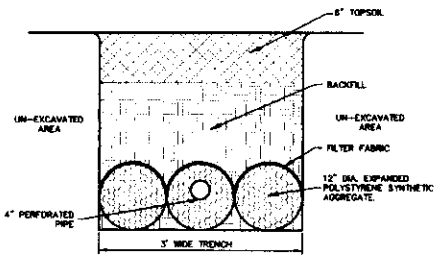
SEED ALL DISTURBED AREAS WITH BROME GRASS.



1 / C2.3 CONCRETE SEPTIC TANK
NO SCALE



2 / C2.3 TYP. SANITARY SEWER WYE
NO SCALE



3 / C2.3 SECTION OF SOIL ABSORPTION/ FILTER MATERIAL
NO SCALE

MISCELLANEOUS DETAILS

REGA 171170			
ISSUED FOR:	DATE:	BY:	REVIEW BY:
PROGRESS SET	08/23/17	SDB/JB	JB/DR
90% PROGRESS SET	09/06/17	SDB/JB	JB/DR
100% CONSTRUCTION SET	09/15/17	SDB/JB	JB/DR
A1 REVISED, ADDED 3 - 1250 GAL TANKS	10/18/17	SDB/JB	JB/DR

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601 OLD CHENEY RD., SUITE A
LINCOLN, NEBRASKA 68512
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LINCOLN PARKS AND REC
PINEWOOD BOWL SCENE SHOP
3201 S. Coddington Ave
LINCOLN, NE

Project Number
Date
09-14-2017

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C2.3

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. HS001639

System Type: Standard

Situs: 3403 W VAN DORN ST, LINCOLN, NE 68522

Issued: 4/11/2018

Expires: 4/11/2019

Description: S5, T9, R6, 6th Principal Meridian, LOTS 10, 11, 12 & 16 & S1/2 NE

Owner: CITY OF LINCOLN
ATTN: REAL ESTATE DIVISION 555 S
10 ST RM 205
LINCOLN, NE 68508

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

HAES EXCAVATING INC
9800 BREAGAN RD
LINCOLN, NE 68526

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

MAY 17 2018

D Exhibit 4

Permit Number: HS001639

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) Sec 5 T9 R6 Lot 10,11,12,16

Owner: Lincoln Parks & Rec Address 3403 West Vandorn Lincoln, NE

A. Wastewater Piping

1. Material: PVC Diameter: 4 in.
2. Distance between dwelling and septic tank: 80 ft.

B. Septic Tank

1. Material Concrete
2. Capacity: 2- 1250
3. Depth to top of tank, below unfinished grade: 36 in.
4. Distance to:
   Well 385 ft.
   Pressure line 80 ft
   Property Line 1800 ft.
   Foundation 465 ft.

C Distribution Box or Drop Box

Distance **and** Direction from septic tank: 5 ft. 145

D. Drainfield/Absorption Field

☒ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☒ Other
   Material brand and inside width of Chamberless: EZ Flow
2. Number of Laterals: 3
3. Length of each lataral (linear): ft. 80 ft. 80 ft. 80 ft. _____
4. Drainfield size: 1080 sq. ft.
5. Distance to:
   Well 190 ft.
   Pressure line 625 ft.
   Property line 1800 ft.
   Depth of Groundwater > 9

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: Scott Dorn Date: 4-18-2018

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

CONNECT PROPOSED 4" SANITARY LINE INTO EXISTING 4" SERVICE LINES FROM BUILDING. **CONTRACTOR TO FIELD VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION AND INFORM ENGINEER OF ANY CONFLICTS. FL=1216.50 (ASSUMED, FIELD VERIFY)**

CAUTION BURIED ELECTRICAL LINE.

PROTECT EXISTING TREES

4"(PVC)FL=1213.00

MATCH LINE #1

CAUTION BURIED ELECTRICAL LINE.

MATCH LINE #1

PROTECT EXISTING TREES

4"(PVC)FL=1210.00

6"(HDPE) FL=1202.05

CAUTION BURIED ELECTRICAL LINE.

BUILD AREA INLET C.E.= 1204.59 I.E.= 1202.25

8"(HDPE)FL=1201.27

BUILDING F.F.E.=1204.94

4"(PVC)FL=1201.00

4"(PVC) FL=1200.00 SEE MECHANICAL FOR DOUBLE CLEAN OUT DETAIL

ALL UTILITIES TERMINATE 5'-0" OUTSIDE BUILDING. FOR CONTINUATION INSIDE BUILDING, SEE MECHANICAL PLANS.

CAUTION BURIED ELECTRICAL LINE CROSSING

4"(PVC)FL=1200.20

CAUTION SANITARY LINE CROSSING. MAINTAIN 18" SEPARATION

CAUTION BURIED ELECTRICAL LINE.

BUILD AREA INLET C.E.= 1202.59 I.E.= 1200.59

4"(PVC)FL=1199.69

4"(PVC)FL=1199.14

CAUTION EXISTING CONDUIT LINE CROSSING

PROTECT EXISTING TREES

CAUTION STORM SEWER LINE CROSSING

CONNECT PROPOSED 12" HDPE STORM SEWER PIPE INTO EXISTING 24" HDPE. I.E.=1196.67 (ASSUMED) **CONTRACTOR TO FIELD VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION AND INFORM ENGINEER OF ANY CONFLICTS**

2-1,250 GALLON CONCRETE SANITARY SEPTIC TANKS IN SERIES, WORKMAN PRECAST CORPORATION, SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE TO THESE PLANS AND GENERAL NOTES. THIS IS AN APPROXIMATE LOCATION OF THE CONCRETE SANITARY SEPTIC TANK. FINAL PLACEMENT OF SEPTIC TANK SHALL BE APPROVED BY OWNER.

R1

4"(PVC) FL=1197.06

RE-USE EXISTING 24"(HDPE) F.E.S. FL=1190.25

4"(PVC) FL=1195.00

2 Drop Boxes

APPROXIMATELY 500 FT TO PROPERTY LINE

APPROXIMATELY 1800 FT TO PROPERTY LINE

4"(PVC) FL=1199.33

4"(PVC) FL=1198.68

4"(PVC) FL=1198.28

CAUTION BURIED ELECTRICAL LINE

CONNECT TO EXISTING 24" HDPE PIPE. MATCH EXISTING FLOW LINE.

24"HDPE=50.0'

CAUTION EXISTING TRANSFORMERS.

CAUTION BURIED ELECT. LINE CROSSING.

CONTRACTOR TO CONSTRUCT WATER VALVE MANHOLE. CONTRACTOR TO CONSTRUCT 4"x4"x4" TEE WITH ONE 4"x2" REDUCER ON WEST LEG TO SCENE SHOP. CONTRACTOR TO STUB NORTH WATER LINE 4' AND INSTALL 4" PLUG, MJ.

CAUTION SANITARY LINE CROSSING. MAINTAIN 18" SEPARATION

CONNECT PROPOSED 4" SANITARY LINE INTO EXISTING 4" SERVICE LINE. **CONTRACTOR TO FIELD VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION AND INFORM ENGINEER OF ANY CONFLICTS. FL=1201.68 (ASSUMED, FIELD VERIFY)**

CAUTION BURIED ELECTRICAL LINE

CONNECT TO EXISTING 24" HDPE PIPE. MATCH EXISTING FLOW LINE.

MATCH LINE SEE SHEET C1.4A

ROAD Asphalt Pavement

4" WATER LINE =148'

4.0'± FROM EDGE OF ROAD

BORE WATER =30.0'

24" Concrete Curb and Gutter

Rock Parking

Asphalt Bikepath

Rock Driveway

Tree Mass

6' Chain Link Fence

Wall

Boulder

Transformer

BENCHMARK #1 Grate Inlet Elev.1206.26

BENCHMARK #2 Point of Concrete Elev.1204.14

CONSTRUCT LEACH FIELD IN THIS GENERAL AREA. CONTRACTOR IS RESPONSIBLE FOR ALL LANCASTER COUNTY PERMITS NECESSARY FOR CONSTRUCTION AND MEET ALL REQUIRED SETBACKS. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL NO LESS THAN 14 DAYS BEFORE CONSTRUCTION. CONTRACTOR SHALL FILE ALL PERMITS AND REGISTRATION OF SEPTIC SYSTEM PRIOR TO PUTTING SYSTEM INTO SERVICE.

3 C2.3 LATERAL FIELD 8 @ 10' CHAMBERS = 80.00' EA., 240' TOTAL LENGTH

CAUTION BURIED ELECTRICAL LINE CROSSING

CAUTION BURIED ELECTRICAL LINE.

Drop Box detail

Lateral 4" Sanitary line

Drop Box 12'

Laterals

Drop Box 12'

Lateral 90°

113.4'

LEGEND

- SANITARY SEWER LINE (1 C2.1)
- WATER LINE (5 C2.1)
- PROPOSED STORM SEWER LINE (1 C2.1)
- UNDERGROUND ELECTRICAL (SEE ELECTRICAL PLANS)
- PROPOSED AREA INLET (3 C2.1)
- CLEANOUT (4 C2.1)
- ROOF DRAIN (2 C2.1)
- MANHOLE (FOR WATER LINE) (3 C2.2)
- PROPERTY LINE (ASSUMED)
- WATER VALVE (1 C2.2)

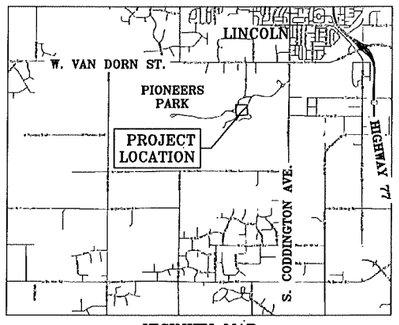
BENCHMARK

BENCHMARK #1, GRATE INLET, EL=1206.26

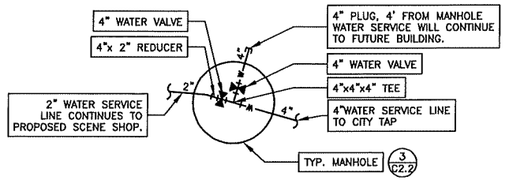
BENCHMARK #2, CORNER OF PAVEMENT, EL=1204.14

REGA 171170

ISSUED FOR:	DATE:	BY:	REVIEW BY:
PROGRESS SET	08/23/17	SDB/JB	JB/DR
99% PROGRESS SET	09/06/17	SDB/JB	JB/DR
100% CONSTRUCTION SET	09/15/17	SDB/JB	JB/DR
REVISED, ADDED 2-1250 GAL. TANKS	11/15/17	SDB/JB	JB/DR



VICINITY MAP
SEC.05, TN9N, R6E



1 C1.4 MANHOLE (PLAN VIEW)
NO SCALE

UTILITY PLAN

SCALE: 1" = 20'-0"

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- PLANNING
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Project Number 17-065
Date 09-15-2017
Revisions

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C1.4