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. HS001822

System Type: Standard

Situs: 3201 S CODDINGTON AVE, LINCOLN, NE 68522

Issued: 6/5/2019

Expires: 6/5/2020

Description: S4, T9, R6, 6th Principal Meridian, S1/2 NW

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

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
Interim Health Director

LINCOLN PARKS & RECREATION
3131 O ST, STE 300
LINCOLN, NE 68510

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

A

Permit Number: 1500187

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address 3201 S. Coddington (no rural route) City Lincoln NE, Zip 68522

Legal Description 6 9 6 6th Principal Meridian LOT 8SE
1/4 1/4 Section Township Range Subdivision Addition Block Lot

Geographical Location (if known): Longitude 96°46'42.29"W Latitude 40°46'21.72"N

☒ Check if system mail address is not the same as the owner's address SEE ATTACHED Location Maps

0906400000/000

B. Owner

Name Lincoln Parks & Recreation Signature D.J. Yost

Address 3140 "N" Street, Suite 300 City/State/Zip Lincoln NE 68510

☐ Check if owner designed system Home Phone _____ Work Phone _____

C. Contractor

Name _____ Company Name _____ 60 acres

Address _____ City/State/Zip _____

☐ Check if contractor designed system Work Phone _____

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name Dan Rosenthal Firm REGA Eng Group Work Phone 402-484-7342

E. This System Will Serve a

☐ Residential Dwelling Number of Bedrooms _____ Is there a Whirlpool Bathtub YES NO

☒ Commercial Establishment/Other Facility Specify Day Camp for Summer youth.

Design flow in gallons per day 7500 Type of Wastewater: ☒ Domestic ☒ ~~Non-Domestic~~.

4 Toilets 40

DO NOT WRITE BELOW THIS LINE 1a3 per Dan Rosenthal

Approval Process ☒ Municipal Code 24.38 ☐ County Resolution No. 2832

1. **Health Department** Date rec'd 6/5/19 Date frwd 6/5/19 **ACTION** ☒ Approved ☐ Disapproved Signature _____
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd _____ Date frwd _____ **ACTION** ☐ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd _____ Date frwd _____ **ACTION** ☐ Approved ☐ Disapproved Signature _____

Installation Final Written Approval

By _____

Date 3/24/20

Business Office Use Only

Date Rec'd _____

Amt Paid _____

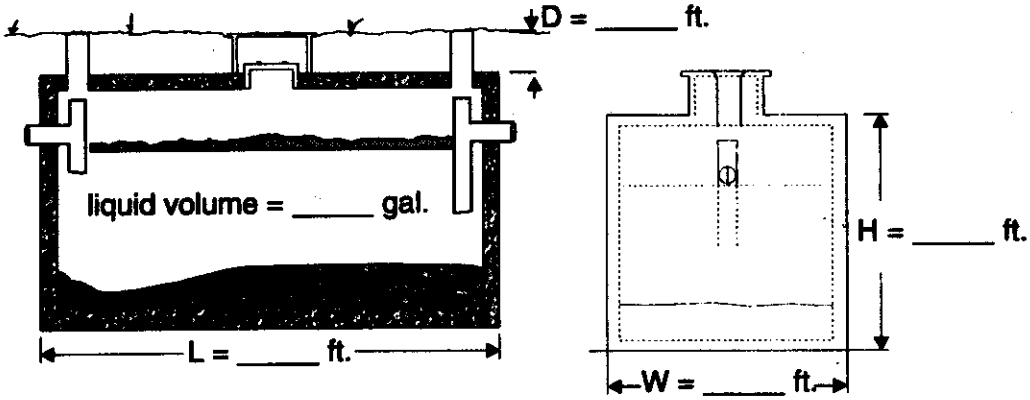
Rec'd By _____ Cash/Check No. _____

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

KEY

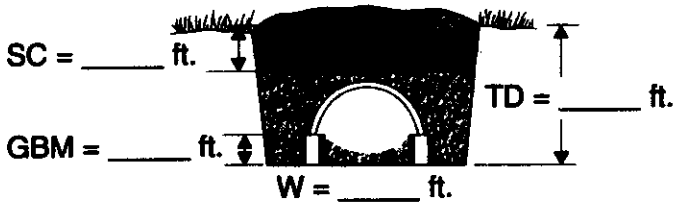
SC = Soil Cover
TD = Trench Depth
W = Width
GBM = Gravel Below Half Moon
L = Tank Length
GBP = Gravel Pipe Below
H = Tank Height
D = Depth of Cover

F. SEPTIC TANK DIMENSIONS

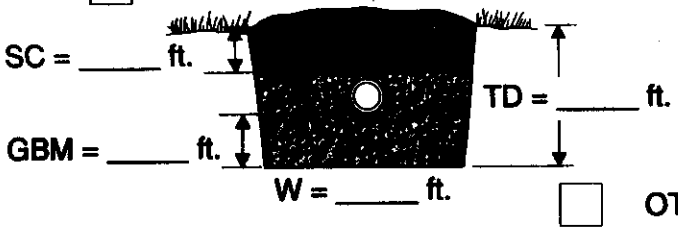


G. Check the Box for the Appropriate Absorbtion Field and Complete the Blanks

☐ HALF-MOON IN GRAVEL



☐ PIPE IN GRAVEL



☐ OTHER: Include Drawing

H. Complete ADJACENT Lot Worksheet for All Wells and Water Lines

NORTHWEST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____	NORTH Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____	NORTHEAST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____
WEST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____	PROPOSED SEPTIC SYSTEM INSTALLATION	EAST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____
SOUTHWEST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____	SOUTH Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____	SOUTHEAST Distance in Feet **From Tank Field** WELL:_____ WATER LINES:_____

Procedures

Forme A, B and C must be completed and submitted to the Lincoln-Lancaster County Health Department (LLCHD) to obtain an individual sewage disposal permit as required by LMC 24.38 or Lancaster County Resolution No. 2832.

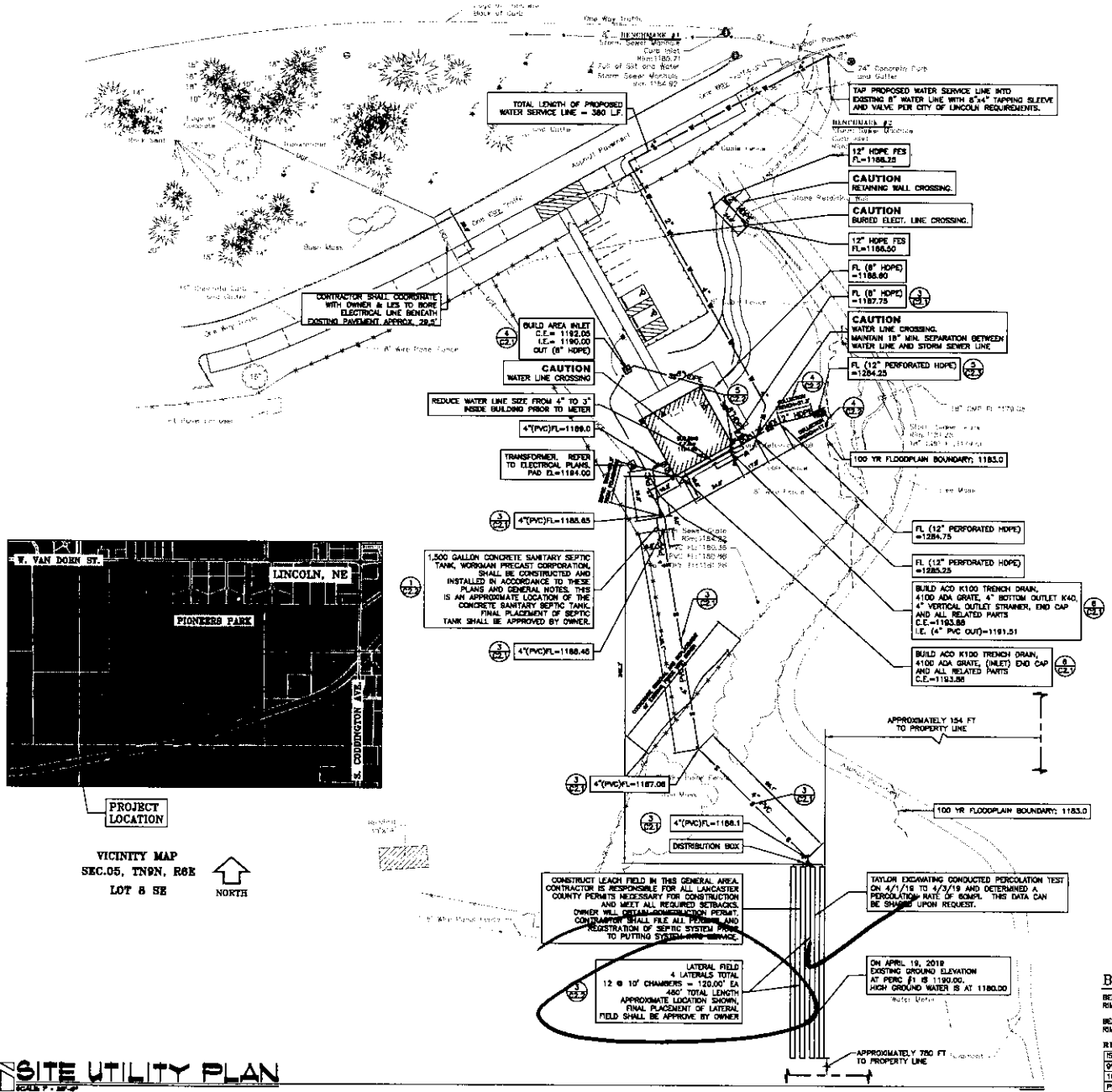
The following steps should be followed in sequence.

1. Determine the soil absorption capacity of the site. (Complete Form B).
2. Have your sewage disposal system engineer/installer survey the site to determine the proper location of the system. The location of building/s, well/s, property lines, percolation test holes, proposed system and laterals must be considered. (Complete Form C) Remember to include a plot plan and that ***both your installer and your home building contractor must sign Form C.***
3. Obtain site clearance. (Complete Form A) If the building site is (a) within the 3-mile jurisdiction of Lincoln, or (b) in the county, but not within the 1-mile jurisdiction of an incorporated city or village, then submit your completed forms to LLCHD. If the building site is within the 1-mile jurisdiction of Hickman or Waverly, or an incorporated village, then you will need to first take Form A to the City of Village Clerk for approval. The clerk will return Form A to you, and you can then submit your completed Form A to LLCHD.
4. Submit completed Forms A, B and C to the LLCHD, Environmental Health Division. A filing (permit) fee of $150 must be submitted at the same time. Make checks payable to the Lincoln-Lancaster County Health Department.
5. When the application for a permit has been approved and the permit issued by LLCHD, construction of the system may begin. The system must be constructed in accordance with the approved plans and specifications, and with the appropriate ordinance or resolution.
6. The installed system requires a final approval. The LLCHD must be notified when the installation is ready for final inspection.

No part of the system may be covered until inspected and approved by the LLCHD.

Inspection Phone No.

441-8022



LEGEND

- (ASSUMED) PROPERTY LINE
- SANITARY SEWER LINE
- WATER LINE
- PROPOSED STORM SEWER LINE
- WATER VALVE
- UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL PLANS)
- PARKING LOT LIGHT (SEE ELECTRICAL PLANS)
- PROPOSED STORM SEWER AREA INLET
- CLEANOUT
- DOWN SPOUTS
- TRANSFORMER (SEE ELECTRICAL PLANS)

SHEET NOTES:

1. ALL UTILITIES TERMINATE 5'-0" OUTSIDE BUILDING. FOR CONTINUATION INSIDE BUILDING, SEE MECH./ELEC. PLANS.
2. NO WORK SHALL OCCUR WITHIN THE 100 YR FLOODPLAIN LIMIT.

BENCHMARK

BENCHMARK #1, STORM SEWER MANHOLE
RIM ELEV.= 1185.71

BENCHMARK #2, STORM SEWER MANHOLE
RIM ELEV.= 1184.98

REGA 181229

ISSUED FOR:	DATE:
99% REVIEW SET	04/23/19
100% CONSTRUCTION SET	04/29/19
PERMIT REVIEW COMMENT CORRECTIONS	06/25/19
SEPTIC PLAN SUBMITTAL	08/05/19

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

Dial 811 Know what's below. Call before you dig.

ADA
Architectural Design Associates
Suite 105
7501 'O' Street
Lincoln, Nebraska 68510
www.adalincoln.com
tel 402 486 3232

LINCOLN PARKS & RECREATION
PIONEERS PARK - WILDERNESS DAY CAMP BUILDING
5201 S. COTTONWOOD DR.
LINCOLN, NE

Project Number 17-000
Date 4/23/2019
Revisions

© Copyright ADA 2019

C1.4

SITE UTILITY PLAN
SCALE: 1" = 50'

Pioneers Park Day Camp Water Flows

June 05, 2019

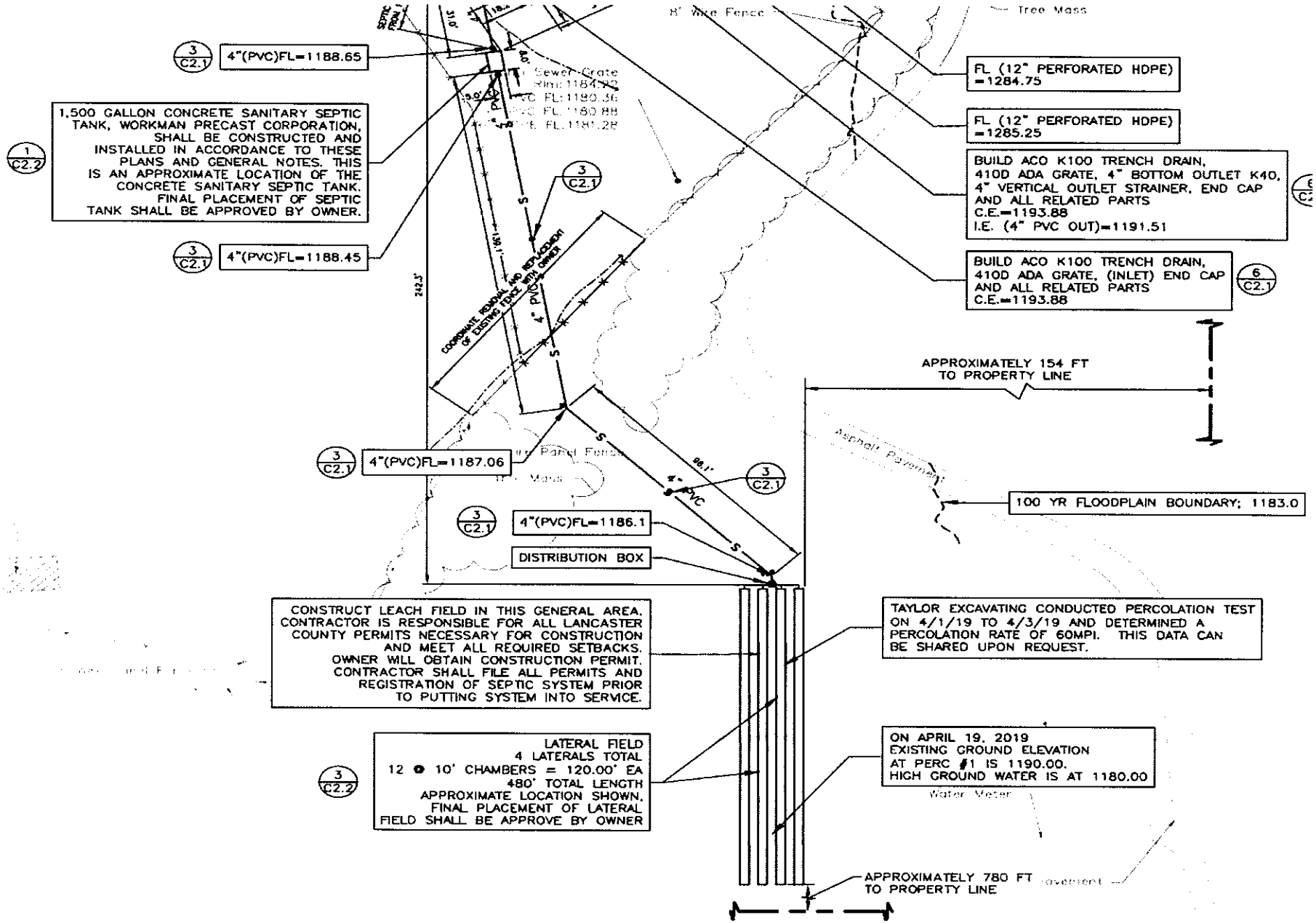
REGA Project Number 181229
Design Criteria:

50-1 day camps with 80 people for 10 hour/day. Day camp is the largest use and being used for the daily use calculations.
This site will also host a 1 day staff training with 40 people for 8 hour/day in the spring.
Day Camp events split 40% female and 60% male.
Sink Fixtures will be specified to be 1.0 gpm.

Fixture	Number of Fixtures	Flow from Fixture	Total Gallons of Flow per Day
Sink (Male/Female) Shared	4	1.0 gpm	1 sink 60 male/females * 75% use sink * 3 uses per day * 1.0 gpm * 1.0 minutes per use = 135.0 gal/day
Sink (Unisex)	1	1.0 gpm	1 sink 20 male/females * 75% use sink * 3 uses per day * 1.0 gpm * 1.0 minutes per use = 45.0 gal/day
WC (Male)	1	1.6 gpf	male water closet 36 males * 3 uses per day * 1.6 gal per flush = 173.0 gal/day
WC (Female)	2	1.6 gpf	female water closet 24 females * 3 use per day * 1.6 gal per flush = 116.0 gal/day
WC (Unisex)	1	1.6 gpf	unisex water closet 20 male/females * 3 use per day * 1.6 gal per flush = 96.0 gal/day
Service Sink (mop sink)	1	2.2 gpm	10 gal/day per sink = 10.0 gal/day
Kitchen Sink	1	2.2 gpm	1 sink * 3 uses per day * 2.2 gpm * 10.0 minutes per use = 66.0 gal/day
Shower	1	2.5 gpm	1 Shower per day * 2.0 gpm * 10.0 minutes per use = 20.0 gal/day (Emergency Use Only)
Floor Drain	4	0 gal/day	Floor drain is for emergency only, not used
Washing Machine	1		15 gal/wash * 2 washes per day = 30.0 gal/day

TOTAL = 691.0 gal/day

Design Total = 691.0 gal/day


3/C2.1 4"(PVC)FL=1188.65
1,500 GALLON CONCRETE SANITARY SEPTIC TANK, 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.
1/C2.2
3/C2.1 4"(PVC)FL=1188.45
3/C2.1 4"(PVC)FL=1187.06
3/C2.1 4"(PVC)FL=1186.1
DISTRIBUTION BOX
3/C2.1
3/C2.1
FL (12" PERFORATED HDPE) =1284.75
FL (12" PERFORATED HDPE) =1285.25
BUILD ACO K100 TRENCH DRAIN, 410D ADA GRATE, 4" BOTTOM OUTLET K40, 4" VERTICAL OUTLET STRAINER, END CAP AND ALL RELATED PARTS
C.E.=1193.88
I.E. (4" PVC OUT)=1191.51
BUILD ACO K100 TRENCH DRAIN, 410D ADA GRATE, (INLET) END CAP AND ALL RELATED PARTS
C.E.=1193.88
6/C2.1
APPROXIMATELY 154 FT TO PROPERTY LINE
100 YR FLOODPLAIN BOUNDARY; 1183.0
CONSTRUCT LEACH FIELD IN THIS GENERAL AREA. CONTRACTOR IS RESPONSIBLE FOR ALL LANCASTER COUNTY PERMITS NECESSARY FOR CONSTRUCTION AND MEET ALL REQUIRED SETBACKS. OWNER WILL OBTAIN CONSTRUCTION PERMIT. CONTRACTOR SHALL FILE ALL PERMITS AND REGISTRATION OF SEPTIC SYSTEM PRIOR TO PUTTING SYSTEM INTO SERVICE.
TAYLOR EXCAVATING CONDUCTED PERCOLATION TEST ON 4/1/19 TO 4/3/19 AND DETERMINED A PERCOLATION RATE OF 60MPI. THIS DATA CAN BE SHARED UPON REQUEST.
3/C2.2
LATERAL FIELD
4 LATERALS TOTAL
12 @ 10' CHAMBERS = 120.00' EA
480' TOTAL LENGTH
APPROXIMATE LOCATION SHOWN. FINAL PLACEMENT OF LATERAL FIELD SHALL BE APPROVE BY OWNER
ON APRIL 19, 2019
EXISTING GROUND ELEVATION
AT PERC #1 IS 1190.00.
HIGH GROUND WATER IS AT 1180.00
APPROXIMATELY 780 FT TO PROPERTY LINE
Tree Mass
Asphalt Pavement
Water Meter

LETTER OF TRANSMITTAL

REGA ENGINEERING GROUP INC.
601 OLD CHENEY ROAD, SUITE A
LINCOLN, NEBRASKA 68512
PHONE 402.484.REGA(7342)
FAX 402.484.7344

REGA
ENGINEERING
GROUP, INC.

TO Nate C. Hartman
Senior Environmental Health Specialist
Lincoln/Lancaster County Health Dept.
3131 O Street, Lincoln NE 68510

DATE May 10, 2019
JOB NO. REGA 181229
ATTN.

REGARDING Lincoln Parks and Rec Day Camp Septic System

THE FOLLOWING ITEMS ARE: ■ Attached ☐ Under separate cover via _____

■ Prints ■ Plans ☐ Shop drawings ☐ Specifications ☐ Copy of letter ☐ Change order ☐ As noted

☐ _____

SETS	DATE	NO.	DESCRIPTION
1	/ /		Form A
1	/ /		Form B
1	/ /		Design Flow Calculations
1	/ /		Email From Terry Kathe on Flood Plain Elevation
1	/ /		Project Location Maps
1	/ /		Septic System Design Plans
	/ /		
	/ /		

THESE ARE TRANSMITTED as checked below:

■ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ FOR BIDS DUE _____, 20

☐ No exceptions taken
☐ Exceptions taken as noted
☐ Revise and resubmit
☐ Rejected

☐ Resubmit _____copies for review
☐ Submit _____copies for distribution
☐ Return _____revised prints
☐ _____
☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS: Nate, please let Corey know if you have any questions.

COPY w/ATTACH. TO: _____

COPY ONLY TO: _____ SIGNED: _____

Dan Rosenthal

From: Terry A. Kathe <tkathe@lincoln.ne.gov>
Sent: Tuesday, February 5, 2019 7:15 AM
To: Dan Rosenthal
Subject: RE: Pioneers Park Flood Plain Elevation Request
Attachments: 5-9-6 bfe State.pdf

The State already had this one..... looks like 1181.7 88 navd

Base Flood Elevation Location OF Septic.

Terry Kathe
Building & Safety Manager

CITY OF LINCOLN NEBRASKA

From: Dan Rosenthal [mailto:dan@regaeng.com]
Sent: Monday, February 04, 2019 4:09 PM
To: Terry A. Kathe <tkathe@lincoln.ne.gov>
Cc: Nate C. Hartman <nhartman@lincoln.ne.gov>; JJ Yost <jyost@lincoln.ne.gov>; Bill Weddle <bweddle@lincoln.ne.gov>; Nate Burnett <nate@regaeng.com>; Brian Smutny <brian@regaeng.com>; Chris Pischel (cpischel@adalincoln.com) <cpischel@adalincoln.com>
Subject: Pioneers Park Flood Plain Elevation Request

Terry, please see the attachments. This is the new location for the Day Camp.

Can you request the DNR to provide what the base flood elevation is for the area in red and show a cross sections near this area.

Depending on the BFE we would like to put a septic lateral system in this same location.

Let me know if you have any questions.

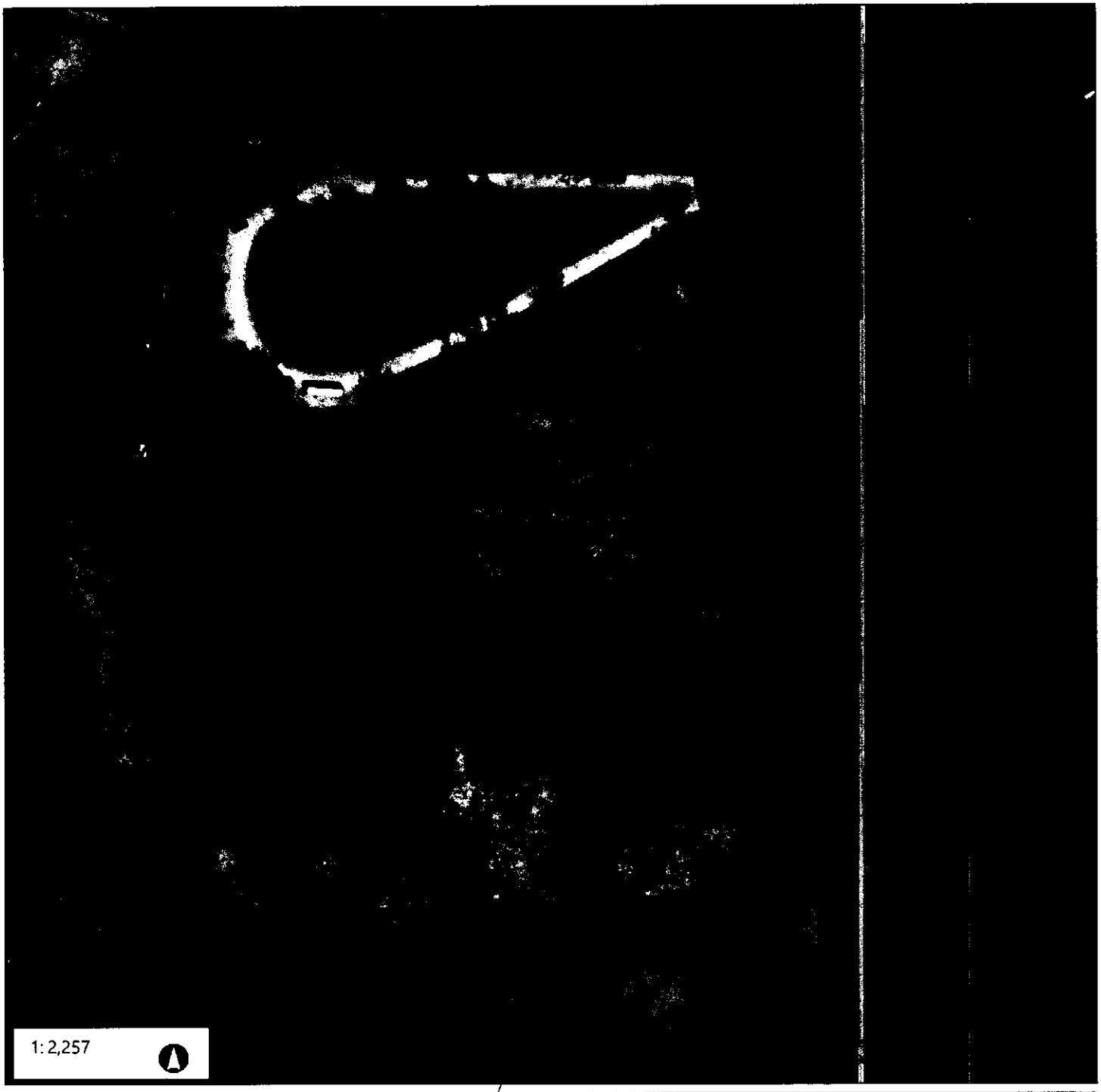
Thanks,

Dan Rosenthal, PE
President

REGA Engineering Group, Inc.
601 Old Cheney Road, Suite A
Lincoln, NE 68512
Phone: 402-484-7342
www.REGAengineering.com

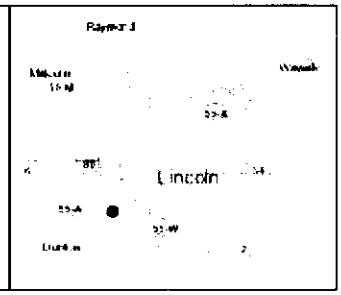
CONFIDENTIALITY NOTICE: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or

Development Viewer



Legend

- FEMA Cross Sections
- FEMA1FT BFE's
- FEMA Floodplain
  - Floodplain
  - Floodway
- Flood Prone Areas
- Building Footprints
- Parcels_Aerial



Septic Location
Base Flood 1181.70
Existing Ground
Elevation 1190.00

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

REC'D MAR 20 2020

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) 3201 S. Coddington

Owner: Lincoln Park & Rec Address 3131 O ST STE 300 LINCOLN NE

A. Wastewater Piping

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

B. Septic Tank

1. Material Concrete
2. Capacity: 1500
3. Depth to top of tank, below unfinished grade: 36 in.
4. Distance to:
   Well _____ ft.
   Pressure line _____ ft
   Property Line 165 ft.
   Foundation 26 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: 220 ft. SOUTH

D. Drainfield/Absorption Field

☑ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☑ Other
   Material brand and inside width of Chamberless: EZ FLOW INFILTRATOR
2. Number of Laterals: 4
3. Length of each lateral (linear): ft. 120 ft. 120 ft. 120 ft. 120
4. Drainfield size: 2160 sq. ft.
5. Distance to:
   Well _____ ft.
   Pressure line _____ ft.
   Property line 154 ft.
   Depth of Groundwater >10

only cover one lateral and lateral complete

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

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

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

Certified Professional Signature: _____ Date: _____

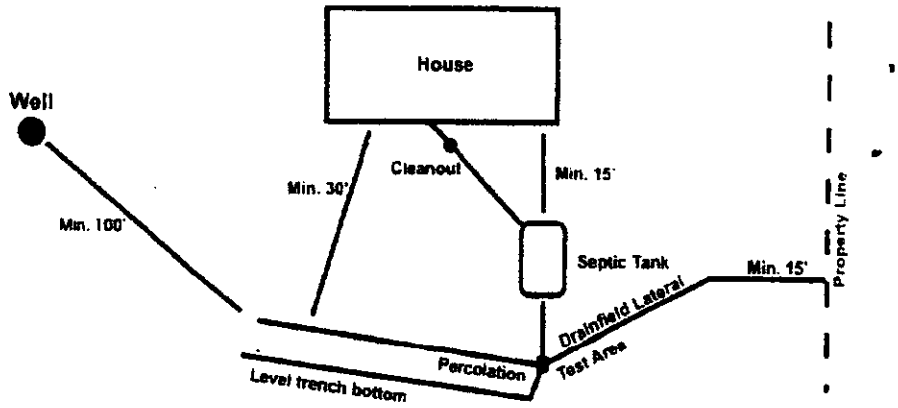
Complete As-Built drawing on the back of this form.

SEE ATTACHMENT

SEE ATTACH

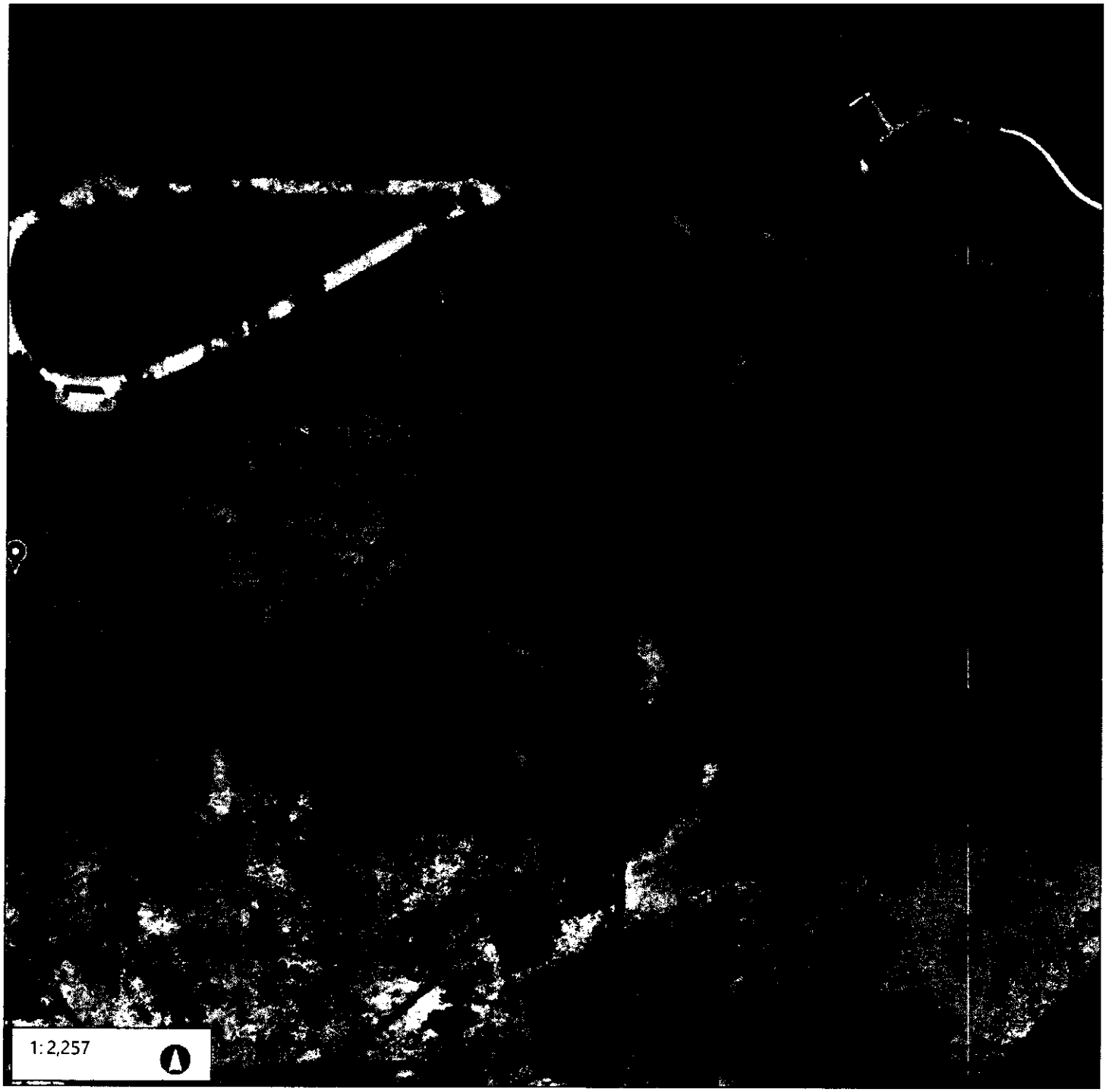
Indicate North
w/ Arrow Here:

Onsite Wastewater System Design (Example)



*Note-If Lagoon, show all applicable dimensions

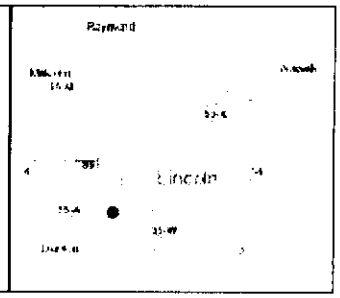
Development Viewer

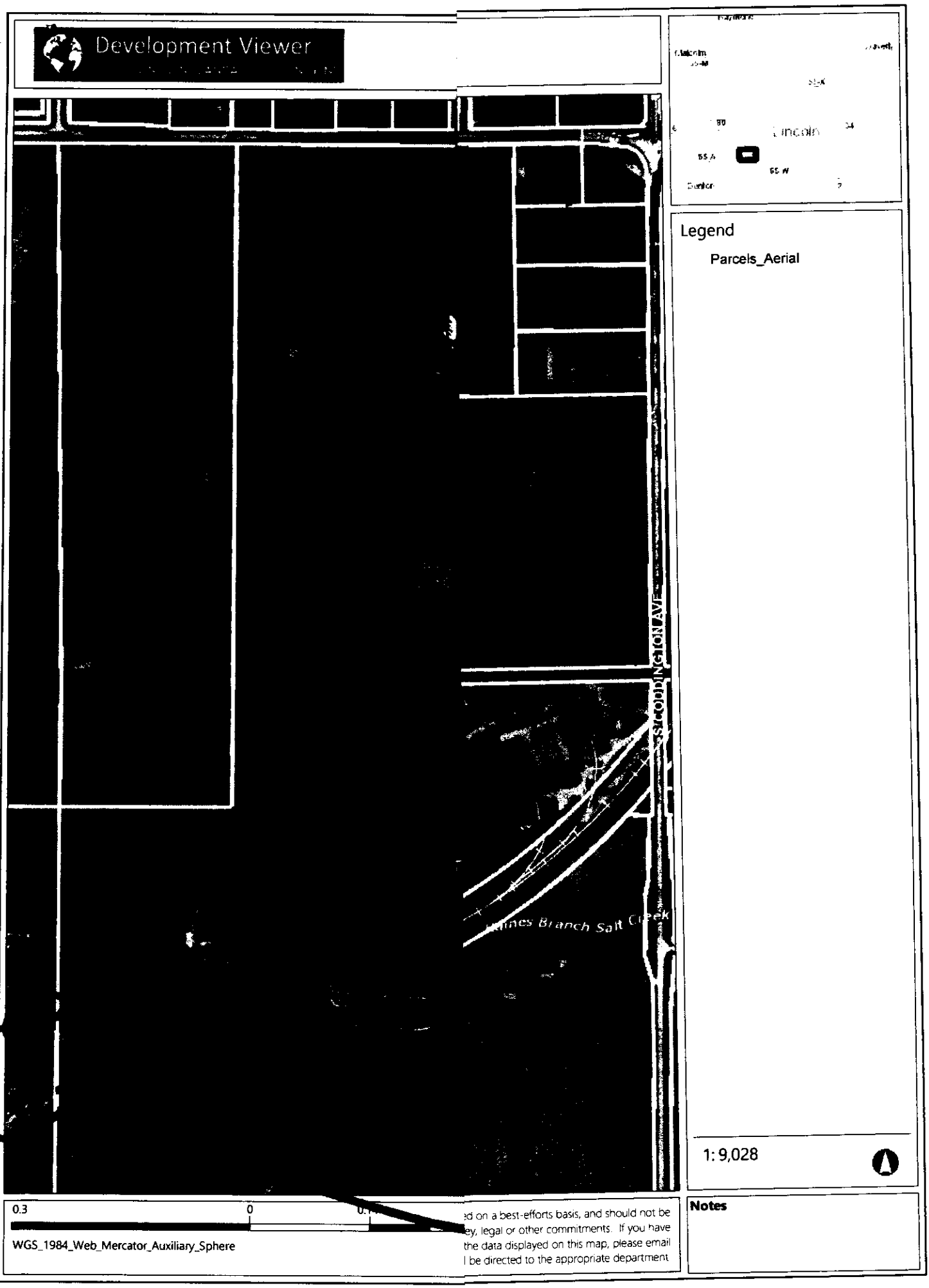


Legend

- Building Footprints
- Parcels_Aerial

Project Location




Development Viewer
Legend
Parcels_Aerial
1:9,028
Notes
0.3
0
WGS_1984_Web_Mercator_Auxiliary_Sphere
ed on a best-efforts basis, and should not be
ey, legal or other commitments. If you have
the data displayed on this map, please email
l be directed to the appropriate department

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

B

Permit Number:

Sewage Disposal System
Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 3201 S. Coddington Ave. (no rural route) City Lincoln NE, Zip 68522

Owner Pioneers Park Address: Nature Center Day Camp

Soil Type (SCS): _____ Percolation Rate: 36mpi min./inch

Date of Tests 4/1/19 to 4/3/19 Weather: Precipitation Clear Temperature 55°

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	36	4-1	11 AM	4/2	11 AM	4/2	11 AM	30	4/2	1 PM	120	6	20
2	40	4/1	11 AM	4/2	11 AM	4/2	11 AM	18	4/2	1 PM	120	4.5	26
3	38	4/1	11 AM	4/2	11 AM	4/2	11 AM	18	4/2	1 PM	120	5	24
4	42	4/1	11 AM	4/2	11 AM	4/2	11 AM	12	4/2	1 PM	120	2.5	48
5	46	4/1	11 AM	4/2	11 AM	4/2	11 AM	30	4/2	1 PM	120	3	40
6	40	4/1	11 AM	4/2	11 AM	4/2	11 AM	18	4/2	1 PM	120	2.5	48
7	48	4/1	11 AM	4/2	11 AM	4/2	11 AM	12	4/2	1 PM	120	2.5	48
~~8~~	~~48~~	4/1	11 AM	4/2	11 AM	4/2	11 AM	12	4/2	1 PM	120	2	60 fail

Person Conducting Percolation Tests

Name: Matt Taylor
Phone: 402-450-6599
Address: PO Box 23108

Sum of Percolation Rates: 254
Average of Rates: 36mpi
Rate Used for Calculation: 36mpi

DO NOT WRITE BELOW THIS LINE

Reviewing Action

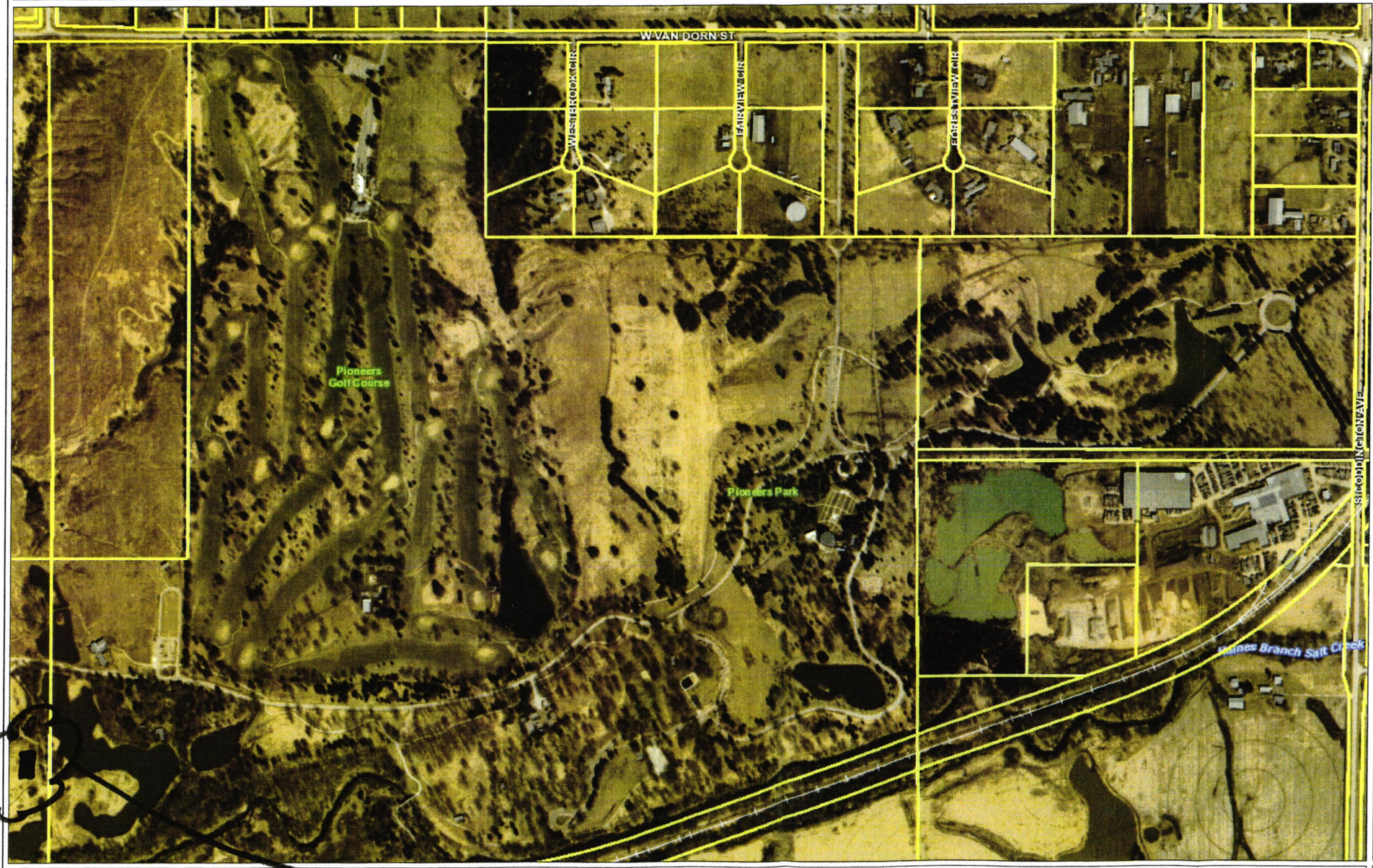
Remarks _____

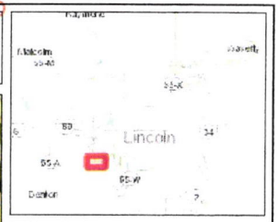
Signature of Reviewing Official _____ Date _____

FORM 23-101 10-96

SCANNED

Development Viewer
CITY OF LINCOLN - LANCASTER COUNTY, NE





Legend

- Parcels_Aerial

1: 9,028

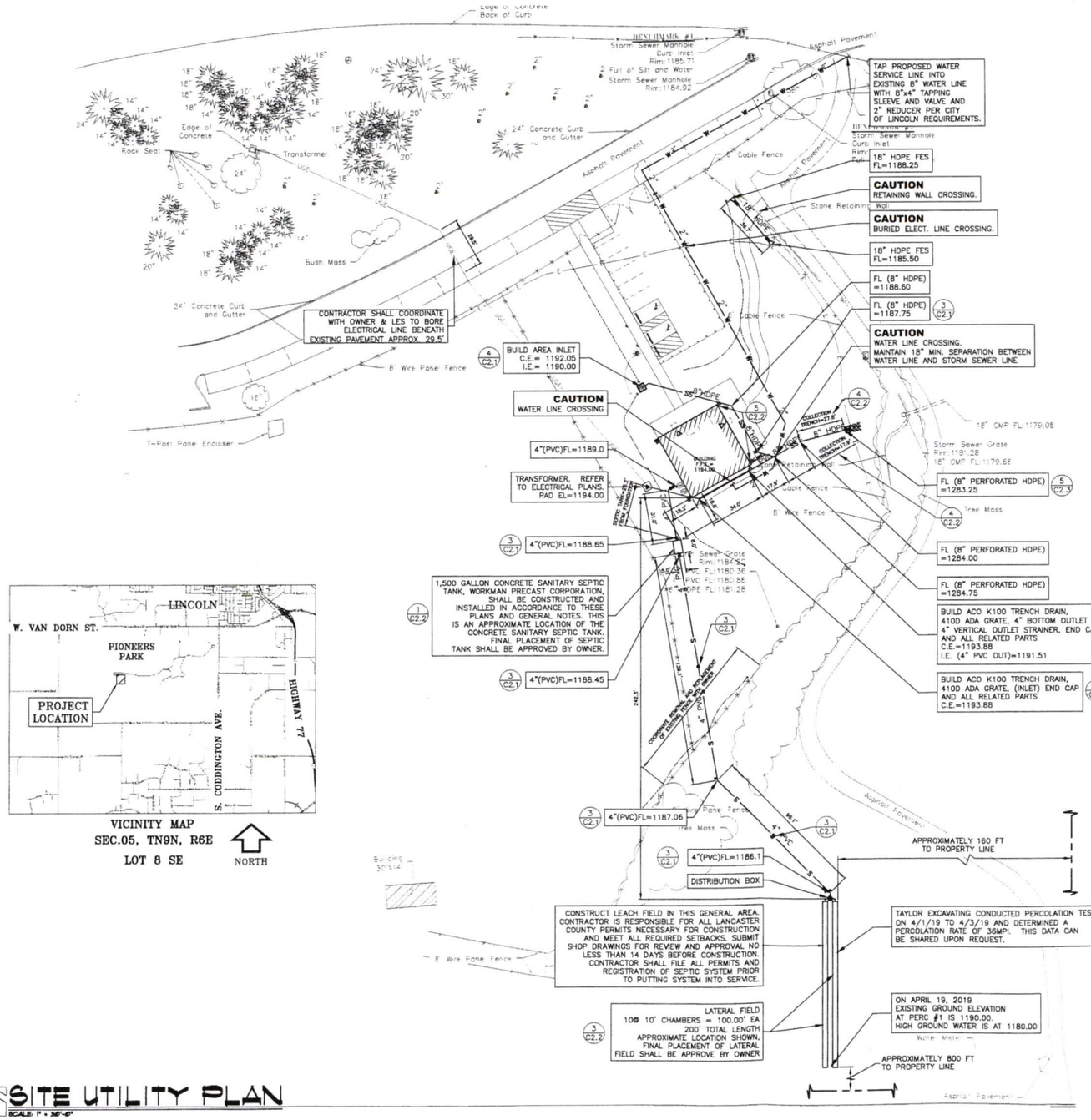
0.3 0 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

Project Location

DISCLAIMER: The information is presented on a best-efforts basis, and should not be relied upon for making financial, survey, legal or other commitments. If you have questions or comments regarding the data displayed on this map, please email plan@lincoln.ne.gov and you will be directed to the appropriate department.

Notes



VICINITY MAP
SEC.05, TN9N, R6E
LOT 8 SE
NORTH

SITE UTILITY PLAN
SCALE: 1" = 30'-0"

LEGEND

- (ASSUMED) PROPERTY LINE
- SANITARY SEWER LINE (2 / C2.1)
- WATER LINE (1 / C2.1)
- PROPOSED STORM SEWER LINE (2 / C2.1)
- WATER VALVE (3 / C2.3)
- UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL PLANS)
- PARKING LOT LIGHT (SEE ELECTRICAL PLANS)
- PROPOSED STORM SEWER AREA INLET (4 / C2.1)
- CLEANOUT (3 / C2.1)
- DOWN SPOUTS (5 / C2.1)
- TRANSFORMER (SEE ELECTRICAL PLANS)

SHEET NOTES:

1. ALL UTILITIES TERMINATE 5'-0" OUTSIDE BUILDING. FOR CONTINUATION INSIDE BUILDING, SEE MECH./ELEC. PLANS.

BENCHMARK

BENCHMARK #1, STORM SEWER MANHOLE
RIM ELEV.= 1185.71

BENCHMARK #2, STORM SEWER MANHOLE
RIM ELEV.= 1184.98

REGA 181229

ISSUED FOR:	DATE:
99% REVIEW SET	04/23/19
100% CONSTRUCTION SET	04/29/19

REGA
ENGINEERING GROUP, INC.
601 OLD CHENEY RD., SUITE A
LINCOLN, NEBRASKA 68512
(402).484.7342
- ENGINEERING
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Architectural Design Associates
Suite 105
7501 'O' Street
Lincoln, Nebraska 68510
www.adalincoln.com
tel 402 486 3232



LINCOLN PARKS & RECREATION
PIONEERS PARK - WILDERNESS DAY CAMP BUILDING
3403 WEST VAN DORN STREET
LINCOLN, NE

Project Number
17-055
Date:
XX-XX-2018
Revisions

Copyright ADA 2018

C1.4

P:\2018 Projects\181229\dwg\Construction Sheets\181229 C1.4 UT.dwg, ARCH full bleed D (24.00 x 36.00 Inches), 1:1

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 THHN 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:

1,500 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 / C2.2)

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 / C2.2)

DISTRIBUTION BOX:

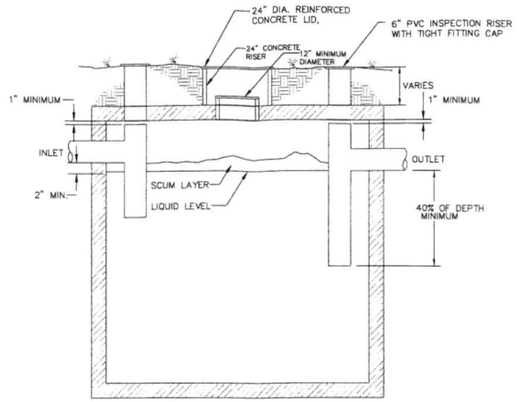
DISTRIBUTION BOX SHALL BE CONSTRUCTED IN ACCORDANCE WITH TITLE 124 OF THE NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS.

AS-BUILTS:

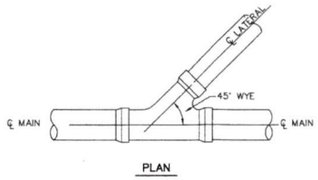
CONSTRUCTION AS-BUILTS ARE REQUIRED FOR CLOSE-OUT DOCUMENTATION.

SEEDING:

SEED ALL DISTURBED AREAS WITH BROME GRASS.

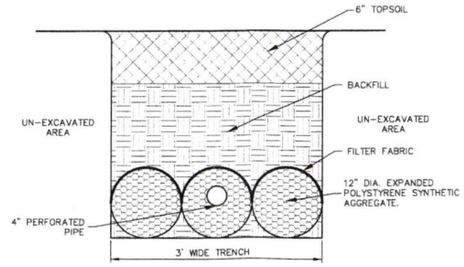


1 / C2.2 CONCRETE SEPTIC TANK
NO SCALE

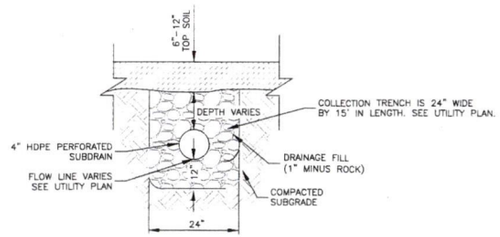


PLAN

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



SECTION OF SOIL ABSORPTION/ FILTER MATERIAL
3 / C2.2 NO SCALE



4 / C2.2 COLLECTION TRENCH
NO SCALE

MISCELLANEOUS DETAILS

ADA
Architectural Design Associates
Suite 105
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Project Number
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Date
XX-XX-2018
Revisions

C2.2

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Pioneers Park Day Camp Water Flows **March 21, 2019**

REGA Project Number 181229
Design Criteria:

50-1 day camps with 80 people for 10 hour/day. Day camp is the largest use and being used for the daily use calculations.
This site will also host a 1 day staff training with 40 people for 8 hour/day in the spring.
Day Camp events split 40% female and 60% male.
Sink Fixtures will be specified to be 1.0 gpm.

Fixture	Number of Fixtures	Flow from Fixture	Total Gallons of Flow per Day
Sink (Male/Female) Shared	4	1.0 gpm	1 sink 60 male/females * 75% use sink * 3 uses per day * 1.0 gpm * 1.0 minutes per use = 135.0 gal/day
Sink (Unisex)	1	1.0 gpm	1 sink 20 male/females * 75% use sink * 3 uses per day * 1.0 gpm * 1.0 minutes per use = 45.0 gal/day
WC (Male)	1	1.6 gpf	male water closet 36 males * 3 uses per day * 1.6 gal per flush = 173.0 gal/day
WC (Female)	2	1.6 gpf	female water closet 24 females * 3 use per day * 1.6 gal per flush = 116.0 gal/day
WC (Unisex)	1	1.6 gpf	unisex water closet 20 male/females * 3 use per day * 1.6 gal per flush = 96.0 gal/day
Service Sink (mop sink)	1	2.2 gpm	10 gal/day per sink = 10.0 gal/day
Kitchen Sink	1	2.2 gpm	1 sink * 3 uses per day * 2.2 gpm * 10.0 minutes per use = 66.0 gal/day
Shower	1	2.5 gpm	1 Shower per day * 2.0 gpm * 10.0 minutes per use = 20.0 gal/day (Emergency Use Only)
Floor Drain	4	0 gal/day	Floor drain is for emergency only, not used
Washing Machine	1		20 gal/wash * 2 washes per day = 40.0 gal/day
A/C Condensation	1		20.0 gal/day

TOTAL = 721.0 gal/day

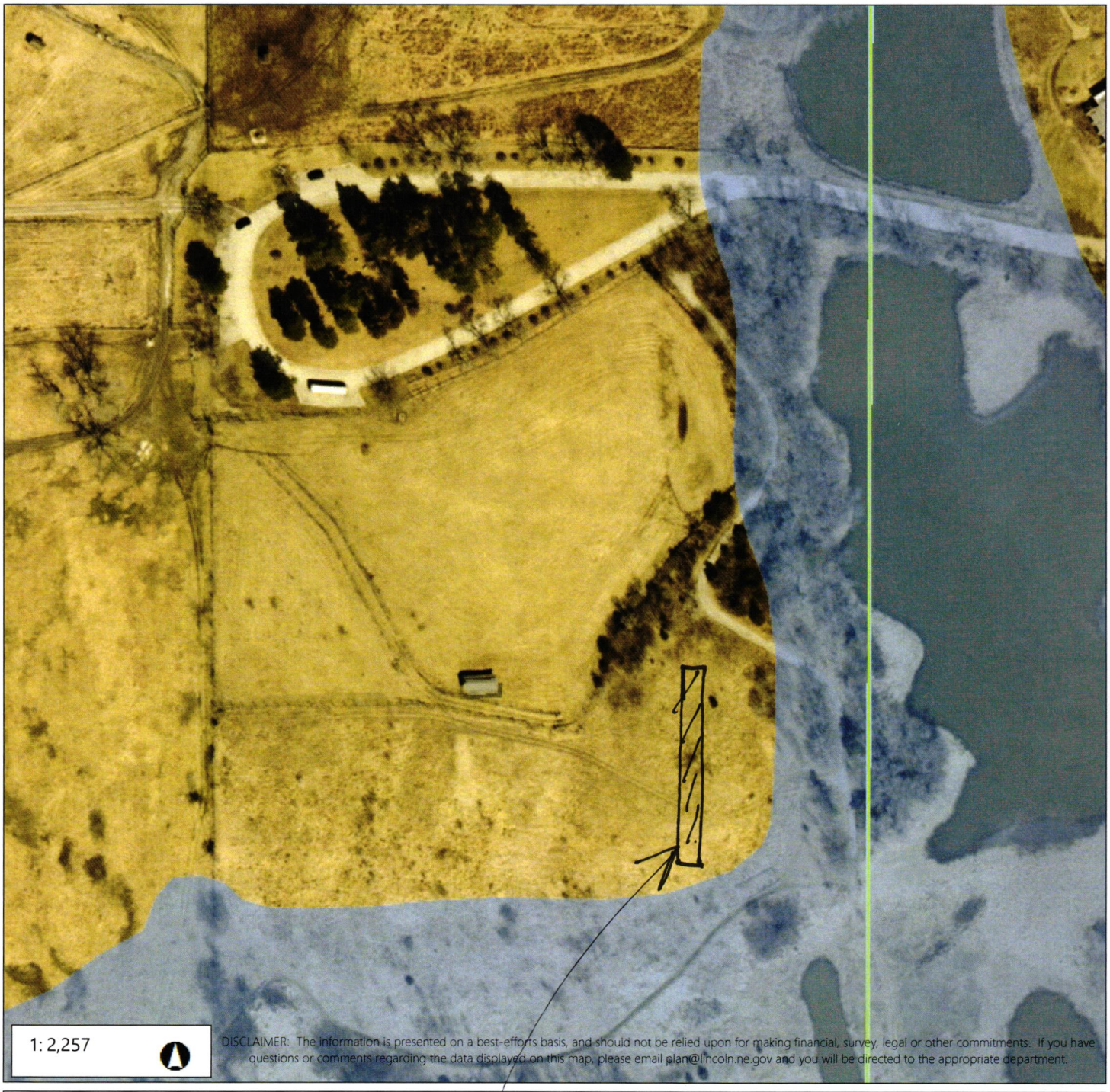
Design Total = 721.0 gal/day



SCANNED

Development Viewer
CITY OF LINCOLN - LANCASTER COUNTY, NE

Lincoln / Lancaster County Planning



Legend

- FEMA Cross Sections
- FEMA1FT BFE's
- FEMA Floodplain
  - Floodplain
  - Floodway
- Flood Prone Areas
- Building Footprints
- Parcels_Aerial



Septic Location
Base Flood 1181.70
Existing Ground
Elevation 1190.00

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

REC'D MAR 20 2020

D Exhibit 4

SCANNED

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) 3201 S. Coddington

Owner: Lincoln Park & Rec Address 3131 O ST STE 300 LINCOLN NE

A. Wastewater Piping

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

B. Septic Tank

1. Material Concrete
2. Capacity: 1500
3. Depth to top of tank, below unfinished grade: 36 in.
4. Distance to:
   Well _____ ft.
   Pressure line _____ ft
   Property Line 165 ft.
   Foundation 26 ft.

C Distribution Box or Drop Box

Distance and Direction from septic tank: 220 ft. SOUTH

D. Drainfield/Absorption Field

☑ Trench ☐ Bed

1. Type: ☐ Perforated Pipe ☐ Chamberless ☑ Other
   Material brand and inside width of Chamberless: EZ FLOW INFILTRATOR
2. Number of Laterals: 4
3. Length of each lateral (linear): ft. 120 ft. 120 ft. 120 ft. 120
4. Drainfield size: 2160 sq. ft.
5. Distance to:
   Well _____ ft.
   Pressure line _____ ft.
   Property line 154 ft.
   Depth of Groundwater > 10

Only final cover all lateral complete upon arrival

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

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

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

Certified Professional Signature: _____ Date: _____

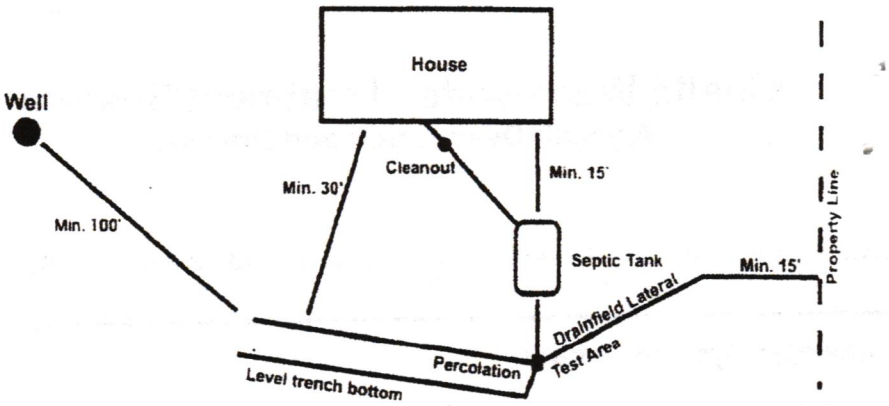
Complete As-Built drawing on the back of this form.

SEE ATTACHMENT

SEE ATTACH

Onsite Wastewater System Design (Example)

Indicate North
w/ Arrow Here:



*Note-If Lagoon, show all applicable dimensions

SCANNED

Development Viewer
CITY OF LINCOLN - LANCASTER COUNTY, NE

Lincoln / Lancaster County Planning



1: 2,257

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Legend
- Building Footprints
- Parcels_Aerial

Project Location

