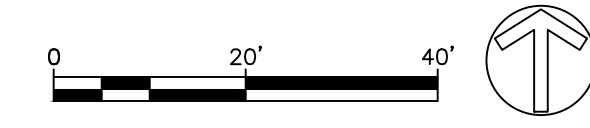


CIRCLE HILL ESTATES WASTEWATER FACILITIES SUMMARY

DESIGN FLOW, 30-DAY AVERAGE: 4,200 GPD (20 UNITS AT 210 GPD/UNIT)
WASTEWATER COLLECTION: CONVENTIONAL GRAVITY SEWERS
PRIMARY TREATMENT: 12,000 GAL SEPTIC TANK; 2.9 DAYS HRT AT DESIGN FLOW
SECONDARY TREATMENT: 5,000 GPD RECIRCULATING TEXTILE FILTER, (2) AX-100 (OSI)
EFFLUENT LIMITS: BOD: 30 MG/L; TSS: 30 MG/L; TOTAL N: 30MG/L (50% REMOVAL)
DOSING SYSTEM: 8,000-GAL DOSING TANK, W/ DUPLEX LIFT PUMPS;
 2,500-GAL TANK W/ DUPLEX DOSING SIPHONS, 160 GPM FLOW RATE
EFFLUENT DISPERSAL: 200% PRESSURE-DISTRIBUTION LEACHFIELD
 PRIMARY & SECONDARY FIELDS, EACH WITH 875 LF, (2) ZONES



**CIRCLE HILL ESTATES
 WASTEWATER TREATMENT SYSTEM**
 SAN JOSE, CALIFORNIA

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 Civil Environmental & Water Resources
 (510) 236-6114
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807



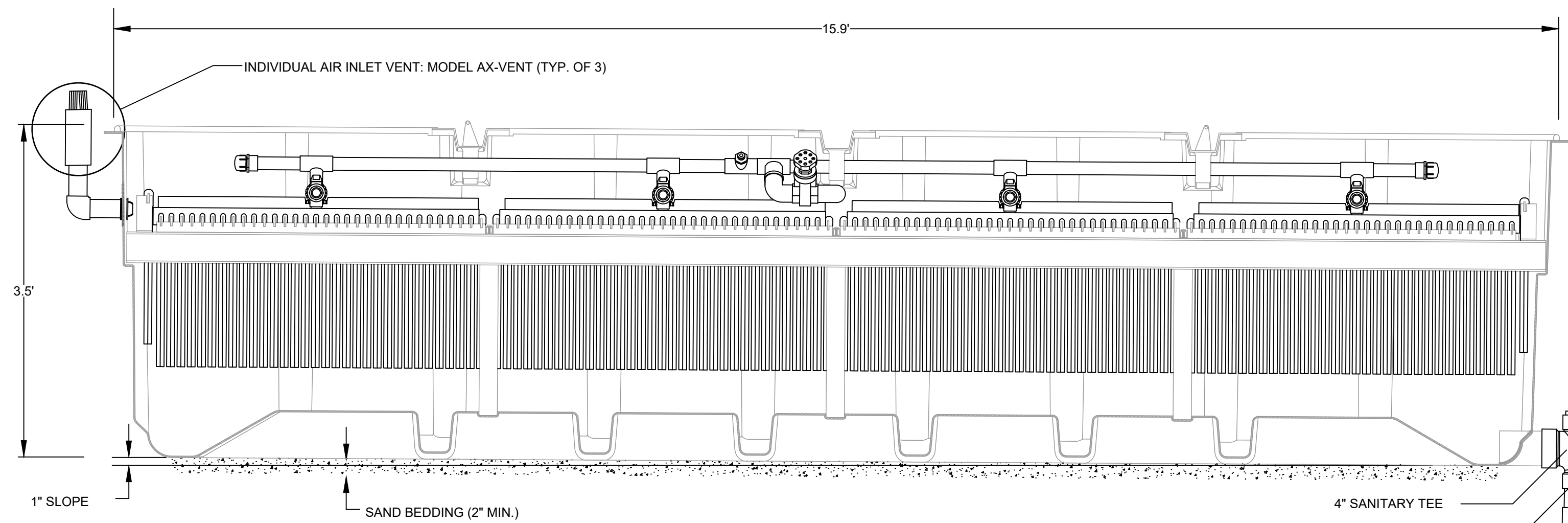
Sht	Rev	Date	By	Description	App'd

Design: NH
 Drawn: MN
 Checked: NH
 App'd: NH

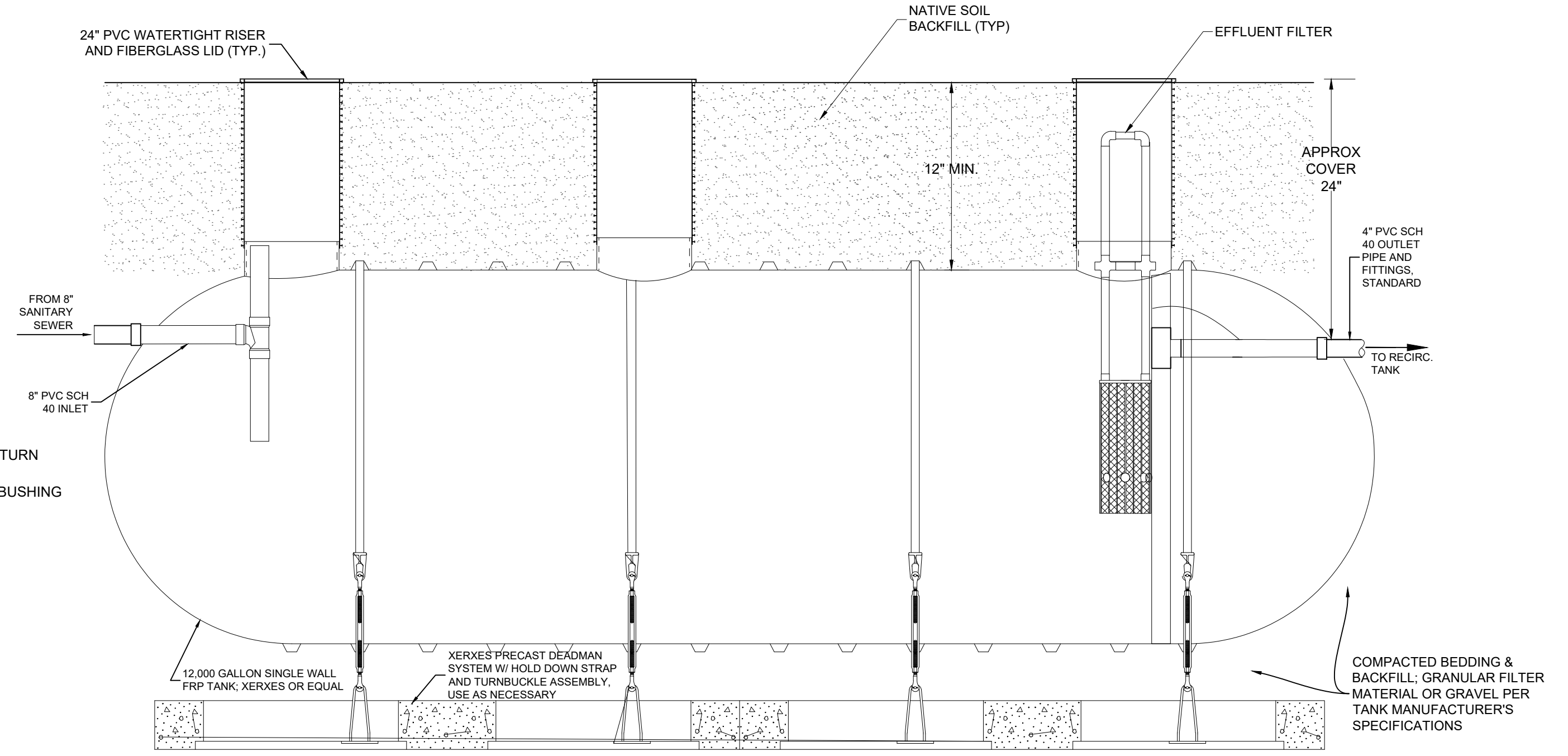
WASTEWATER FACILITIES LAYOUT

Size D
 Project 2300152
 Scale: 1"=20'-0"
 Date: 3/29/2024
 Sheet: WW-1

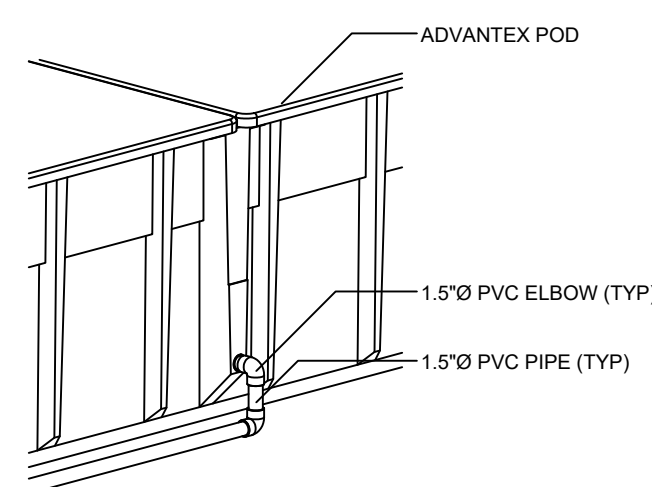
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 PLOT DATE: 4/2/2024
 PLOT STYLE:



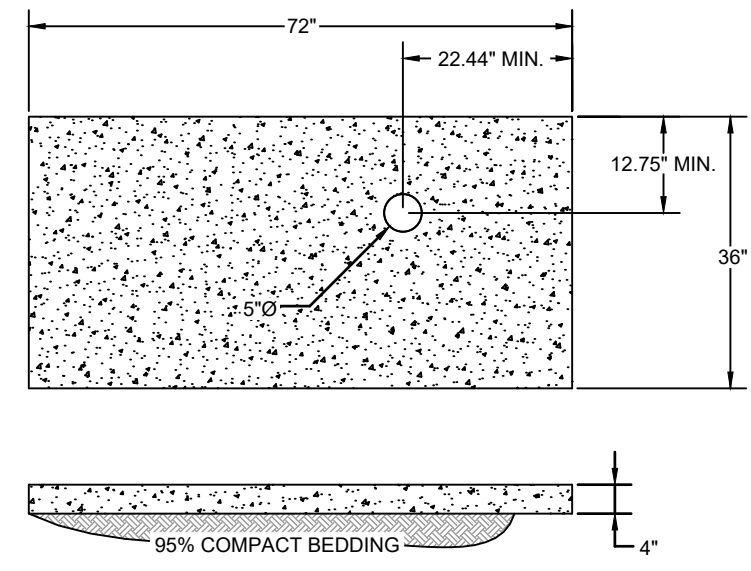
Pod Detail
Scale: 1" = 2'-0"
DIMENSIONS OF AX-100 POD: 3.5'D X 15.9'L X 7.9"W



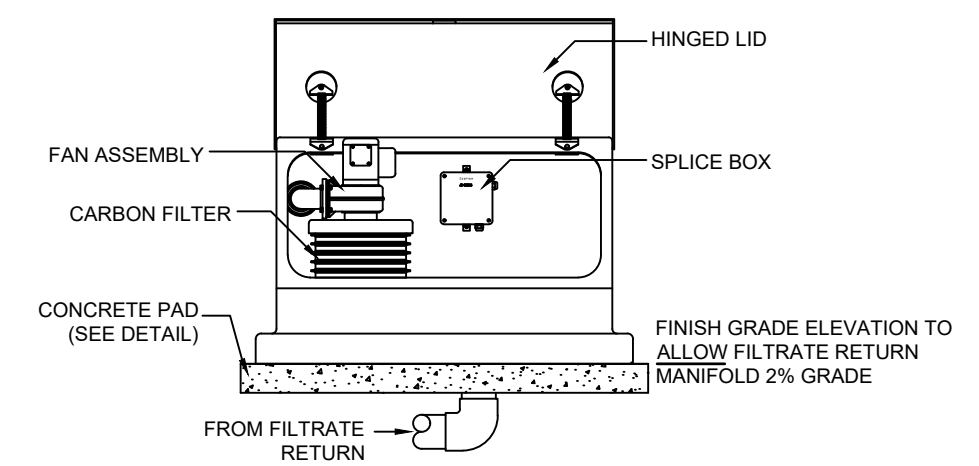
2 12,000 GALLON SEPTIC TANK
NOT TO SCALE. 4 ACCESS RISERS AND BAFFLE (NOT SHOWN)



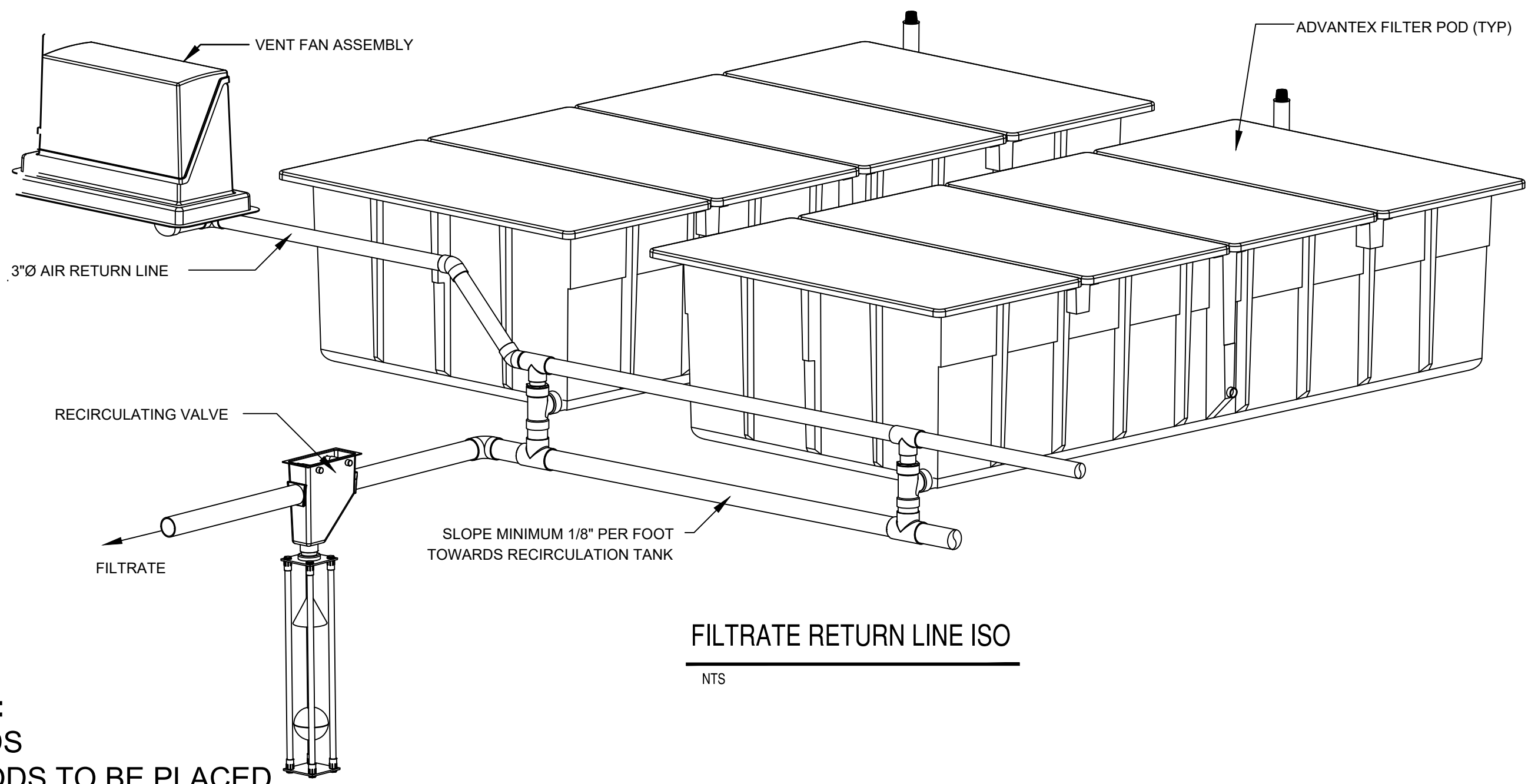
TYPICAL POD INLET CONNECTION
NTS



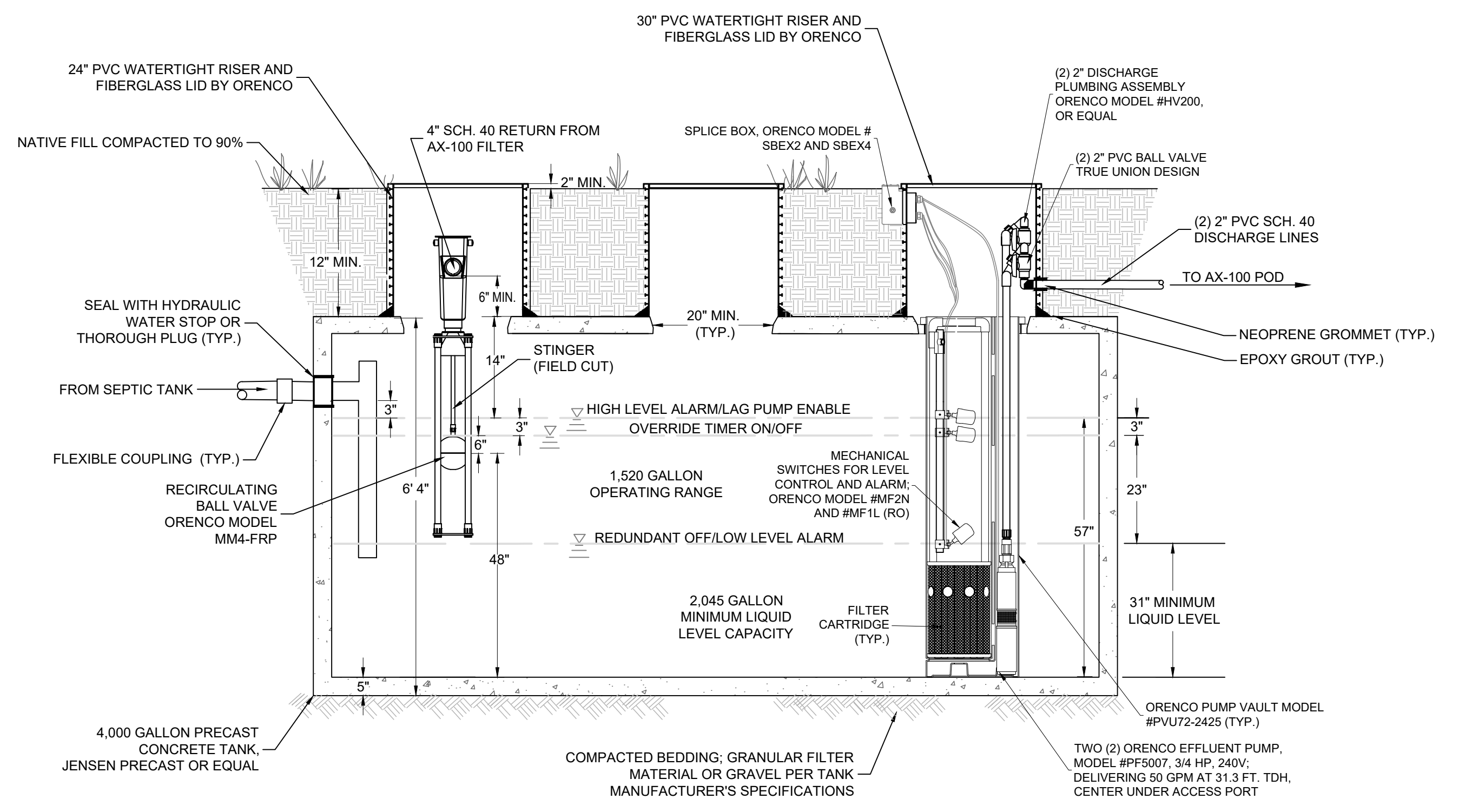
FAN ASSEMBLY PAD DETAIL



ABOVE GROUND FAN ASSEMBLY, MODEL AX-VENT



1 ADVANTEK AX-100 TEXTILE FILTER
NOT TO SCALE



3 4,000 GALLON RECIRCULATION TANK
SIDE VIEW, NTS. PUMPS TO AX-100 TEXTILE FILTERS (RECIRC)

NOTE:
2 PODS
AX PODS TO BE PLACED
ON EXCAVATED PAD,
PARTIALLY BURIED.

CIRCLE HILL ESTATES
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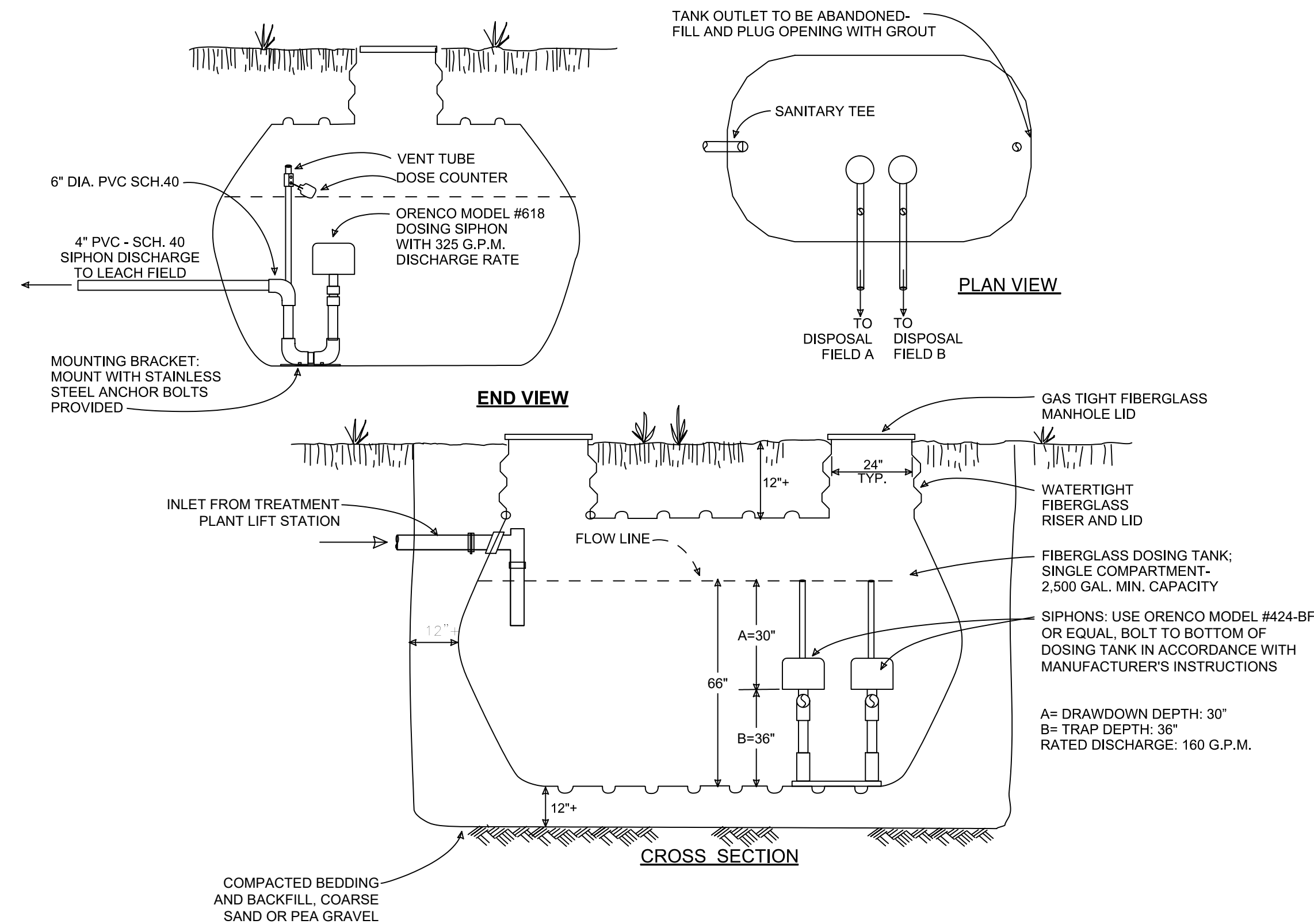
Sht	Rev	Date	By	Description	App'd

Design: NH
Drawn: MN
Checked: NH
App'd: NH

WASTEWATER TREATMENT DETAILS

Size D Project 2300152
Scale: NOT TO SCALE
Date: 3/29/2024
Sheet: WW-2

PA\2023\2300152 WOODCLIFF CT-LABARRERA\CAD\SHEETS\WASTEWATER TREATMENT SET\2300152_WOODCLIFF CT_LW-2.DWG LAST SAVED: 4/2/2024 PLOT DATE: 4/2/2024 PLOT STYLE: ----- IF BAR DOES NOT MEASURE, 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDING

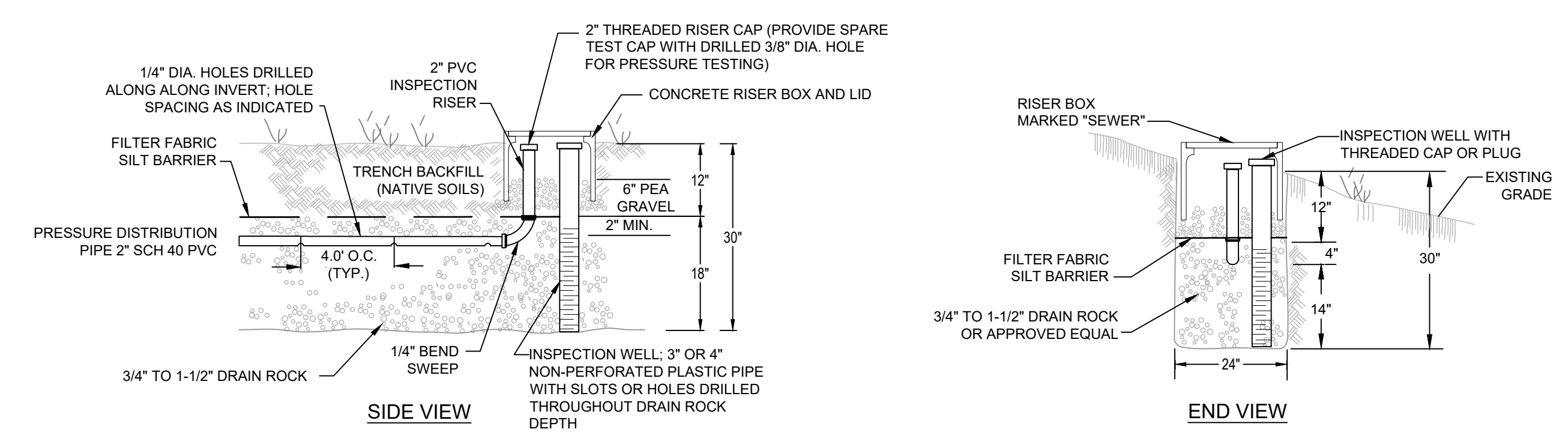


4 2,500 GALLON DOSING TANK
NOT TO SCALE

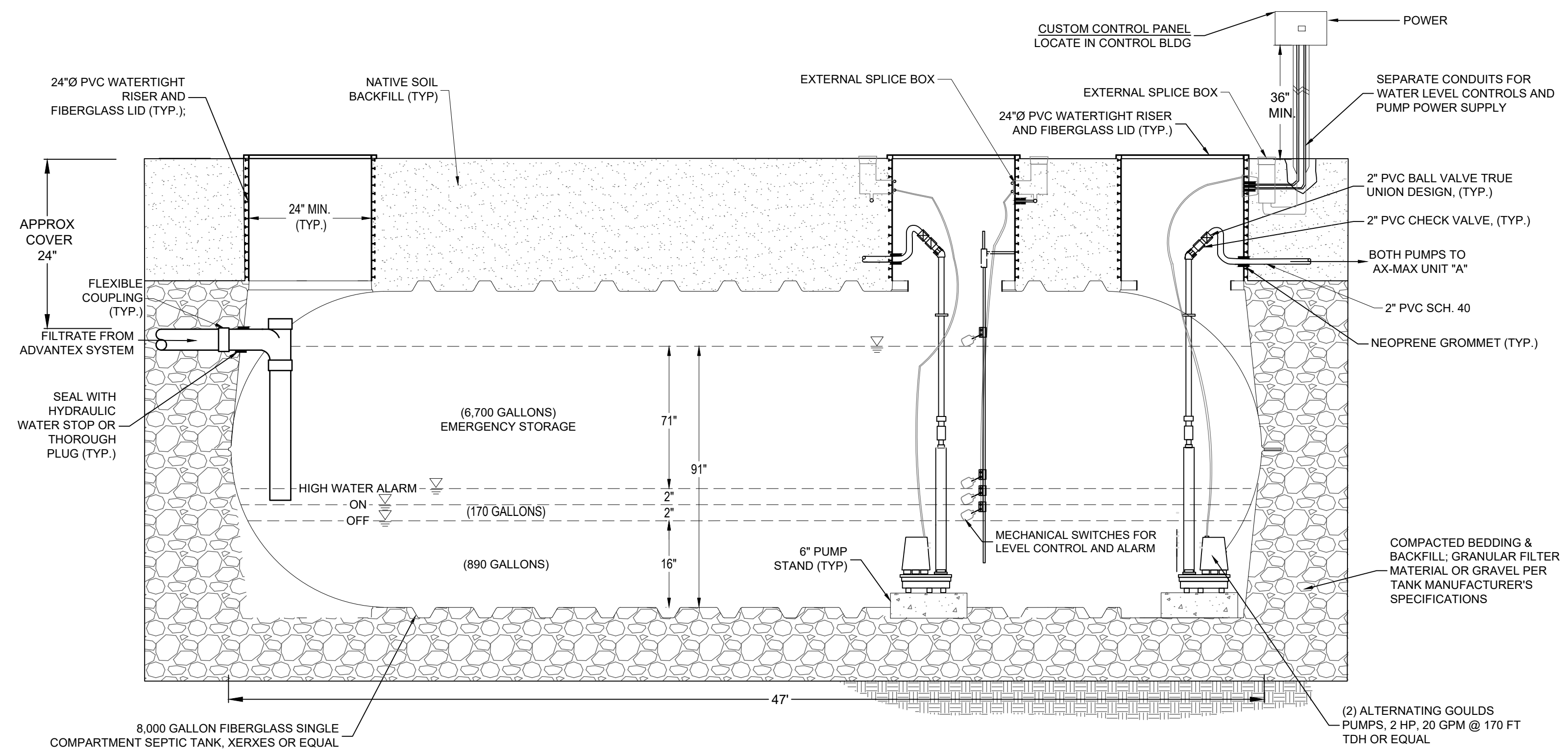
DISPOSAL SYSTEM DESIGN

PRESSURE-DISTRIBUTION LEACHING TRENCHES

- DESIGN FLOW: 4,200 GPD
- TRENCH DIMENSIONS: 2-FT' WIDE X 2.5-FT DEEP
- EFFECTIVE INFILTRATIVE AREA: 4 SQ FT PER LF
- AVERAGE PERCOLATION RATE: 18 MPI
- APPLICATION RATE: 1.2 GPD PER SQ FT (SECONDARY TREATED WASTEWATER)
- TRENCH LOADING RATE: $(4) \times (1.2) = 4.8$ GPD PER LF
- TOTAL REQUIRED TRENCH LENGTH: $4,200 \text{ GPD} / 4.8 \text{ GPD/LF} = 875$ LF PER FIELD
- PROPOSED TRENCH LENGTHS:
 - PRIMARY FIELD A: 875 LF W/(2) ZONES
 - SECONDARY FIELD B: 875 LF W/(2) ZONES
- PRESSURE-DISTRIBUTION CALCULATIONS PER ZONE;
 - MAX ZONE LENGTH: 440 LF
 - 1/4 INCH DISCHARGE HOLES AT 4' O.C.
 - 440 LF/4-FT SPACING = 110 HOLES PER ZONE
 - MIN DISCHARGE RATE: 1/4" HOLE AT 2 FT HEAD = 1.04 GPM/HOLE
 - TOTAL DISCHARGE PER ZONE = $110 \times 1.04 = 114$ GPM
 - PROPOSED DOSING SIPHON DISCHARGE: 160 GPM, OK



5 PRESSURE DISTRIBUTION LEACHING TRENCH
NOT TO SCALE



6 8,000 GALLON EFFLUENT DOSING TANK
NOT TO SCALE

CIRCLE HILL ESTATES
WASTEWATER TREATMENT SYSTEM
SAN JOSE, CALIFORNIA

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Design: NH
Drawn: MN
Checked: NH
App'd: NH

WASTEWATER DISPOSAL DETAILS

Size D Project 2300152
Scale: NOT TO SCALE
Date: 3/29/2024
Sheet: WW-3

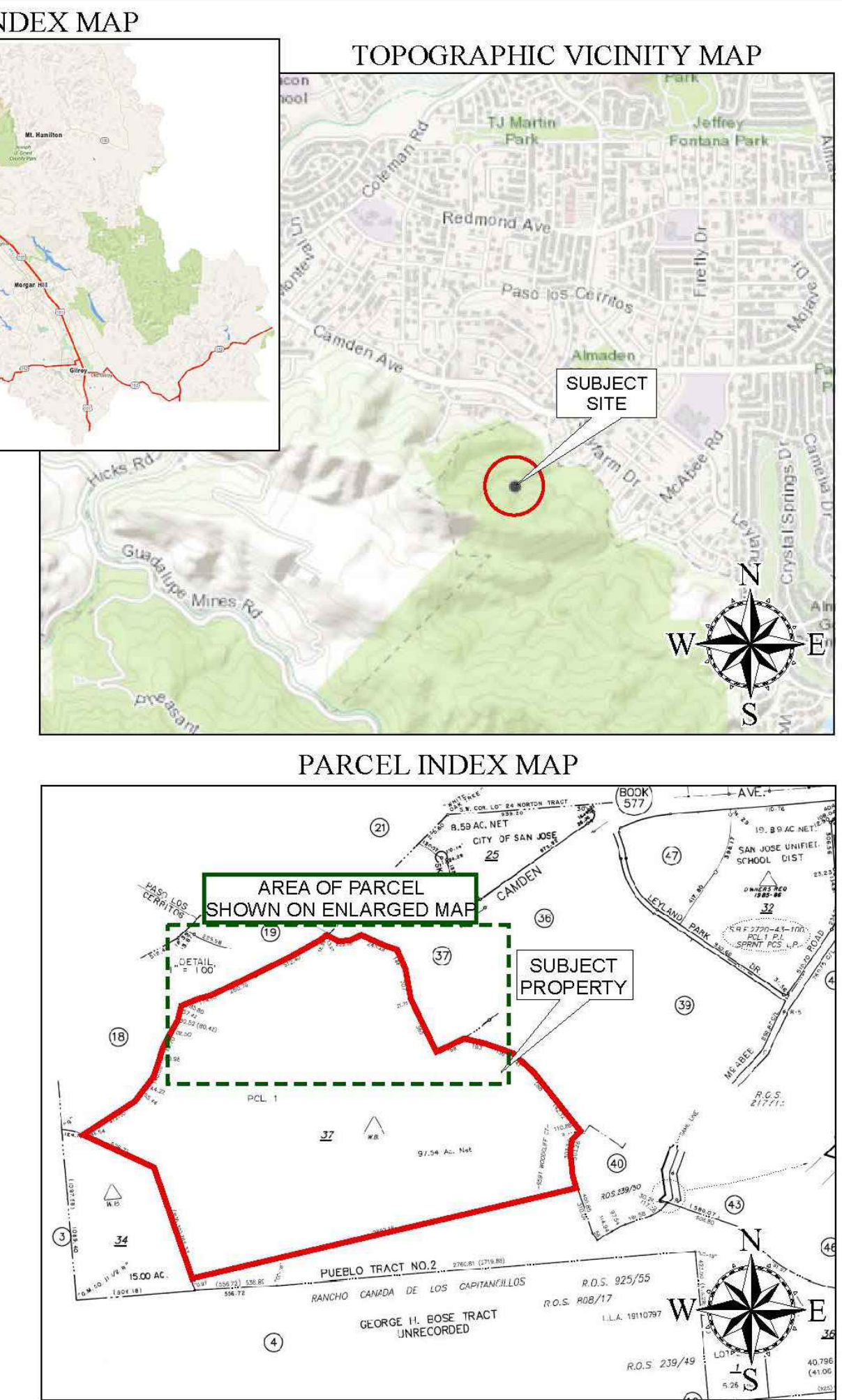
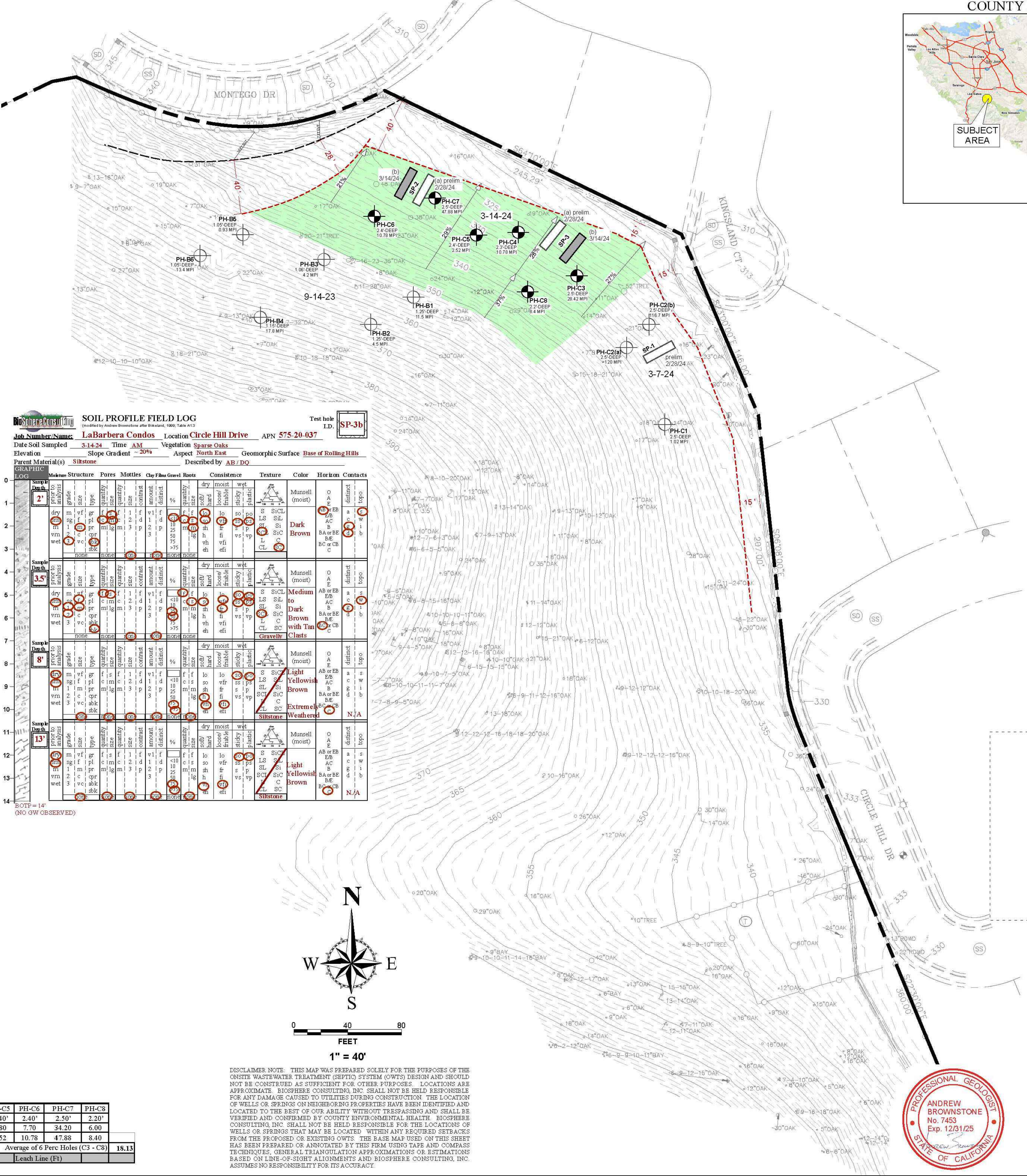
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 LAST SAVED: 4/2/2024 PLOT DATE: 4/2/2024 PLOT STYLE:

SOIL PROFILE FIELD LOG
 Job Number/Name: LaBarbera Condos Location Circle Hill Drive APN 575-20-037
 Date Soil Sampled: 3-28-24 Time AM Vegetation Sparse Oaks
 Elevation: Slope Gradient 10-20% Aspect North East Geomorphic Surface Base of Rolling Hills
 Parent Material(s) Silstone Described by AB/DQ

DEPTH (ft)	MOISTURE	STRUCTURE	PORES	MOTTLES	CLAY FILLS	ROOTS	CONSISTENCE	TEXTURE	COLOR	HORIZON	CONTACTS
0-1.5	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
1.5-3.5	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
3.5-6.5	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
6.5-9.5	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top
9.5-14	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top

SOIL PROFILE FIELD LOG
 Job Number/Name: LaBarbera Condos Location Circle Hill Drive APN 575-20-037
 Date Soil Sampled: 3-14-24 Time AM Vegetation Sparse Oaks
 Elevation: Slope Gradient 20% Aspect North East Geomorphic Surface Base of Rolling Hills
 Parent Material(s) Silstone Described by AB/DQ

DEPTH (ft)	MOISTURE	STRUCTURE	PORES	MOTTLES	CLAY FILLS	ROOTS	CONSISTENCE	TEXTURE	COLOR	HORIZON	CONTACTS
0-2.5	dry	loose	open	none	none	none	loose	loose	Very Dark Brown	Munsell (moist)	distinct top
2.5-6	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
6-9	dry	loose	open	none	none	none	loose	loose	Medium Brown	Munsell (moist)	distinct top
9-13	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top
13-14	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top



SOIL PROFILE FIELD LOG
 Job Number/Name: LaBarbera Condos Location Circle Hill Drive APN 575-20-037
 Date Soil Sampled: 3-14-24 Time AM Vegetation Sparse Oaks
 Elevation: Slope Gradient 20% Aspect North East Geomorphic Surface Base of Rolling Hills
 Parent Material(s) Silstone Described by AB/DQ

DEPTH (ft)	MOISTURE	STRUCTURE	PORES	MOTTLES	CLAY FILLS	ROOTS	CONSISTENCE	TEXTURE	COLOR	HORIZON	CONTACTS
0-2	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
2-3.5	dry	loose	open	none	none	none	loose	loose	Dark Brown	Munsell (moist)	distinct top
3.5-8	dry	loose	open	none	none	none	loose	loose	Medium Brown	Munsell (moist)	distinct top
8-13	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top
13-14	dry	loose	open	none	none	none	loose	loose	Light Yellowish Brown	Munsell (moist)	distinct top

SOIL PERCOLATION SUMMARY TABLE -- 03/14/24

Percolation Hole (PH)	PH-C3	PH-C4	PH-C5	PH-C6	PH-C7	PH-C8
Depth	2.50'	2.30'	2.40'	2.40'	2.50'	2.20'
Stabilized MPI	20.30	7.70	1.80	7.70	34.20	6.00
Adjusted Stabilized MPI	R = R x 1.4					
Avg. Adj. Stabilized MPI	28.42	10.78	2.52	10.78	47.88	8.40
# Bedrooms:	FOR OFFICE USE ONLY					
	TANK SIZE (Gal)					
	Leach Line (Ft)					
	18.15					

DISCLAIMER NOTE: THIS MAP WAS PREPARED SOLELY FOR THE PURPOSES OF THE ON-SITE WASTEWATER TREATMENT (SEPTIC) SYSTEM DESIGN AND SHOULD NOT BE CONSTRUED AS SUFFICIENT FOR OTHER PURPOSES. LOCATIONS ARE APPROXIMATE. BIOSPHERE CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO UTILITIES DURING CONSTRUCTION. THE LOCATION OF WELLS OR SPRINGS ON NEIGHBORING PROPERTIES HAVE BEEN IDENTIFIED AND LOCATED TO THE BEST OF OUR ABILITY WITHOUT TRESPASSING AND SHALL BE VERIFIED AND CONFIRMED BY COUNTY ENVIRONMENTAL HEALTH. BIOSPHERE CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR THE LOCATIONS OF WELLS OR SPRINGS THAT MAY BE LOCATED WITHIN ANY REQUIRED SETBACKS FROM THE PROPOSED OR EXISTING OWTS. THE BASE MAP USED ON THIS SHEET HAS BEEN PREPARED OR ANNOTATED BY THIS FIRM USING TAPE AND COMPASS TECHNIQUES. GENERAL TRIANGULATION APPROXIMATIONS OR ESTIMATIONS BASED ON LINE-OF-SIGHT ALIGNMENTS AND BIOSPHERE CONSULTING, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY.

COUNTY E.H. ACCEPTANCE/APPROVAL STAMPS

BioSphere Consulting
 1315 King Street
 Santa Cruz, CA 95060
 Tel: (831) 430-9116
 www.biosphere-consulting.com

Alternative Wastewater System Design

SITE EVALUATION RESULTS MAP FOR PROPOSED OWTS

Project Location:	6591 Woodcliff Court, San Jose, California	(Santa Clara County)
Property Owner:	Mike LaBarbera	
Mailing Address:	6107 Black Pool Court, San Jose, CA 95138	
Owner Phone #:	(408) 529-2017	
Date:	03/15/24	By: David Quinn / Andrew Brownstone
REVISIONS:		Sheet: 1 of 1
	Job No.: 23021	APN: 575-20-037

CIRCLE HILL ESTATES
 WASTEWATER TREATMENT SYSTEM
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Sht	Rev	Date	By	Description	App'd

Design: NH
 Drawn: MN
 Checked: NH
 Apprd: NH

WASTEWATER SITE EVALUATION DATA

Size D 2300152
 Scale: NOT TO SCALE
 Date: 3/29/2024
 Sheet: **WWW-4**

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