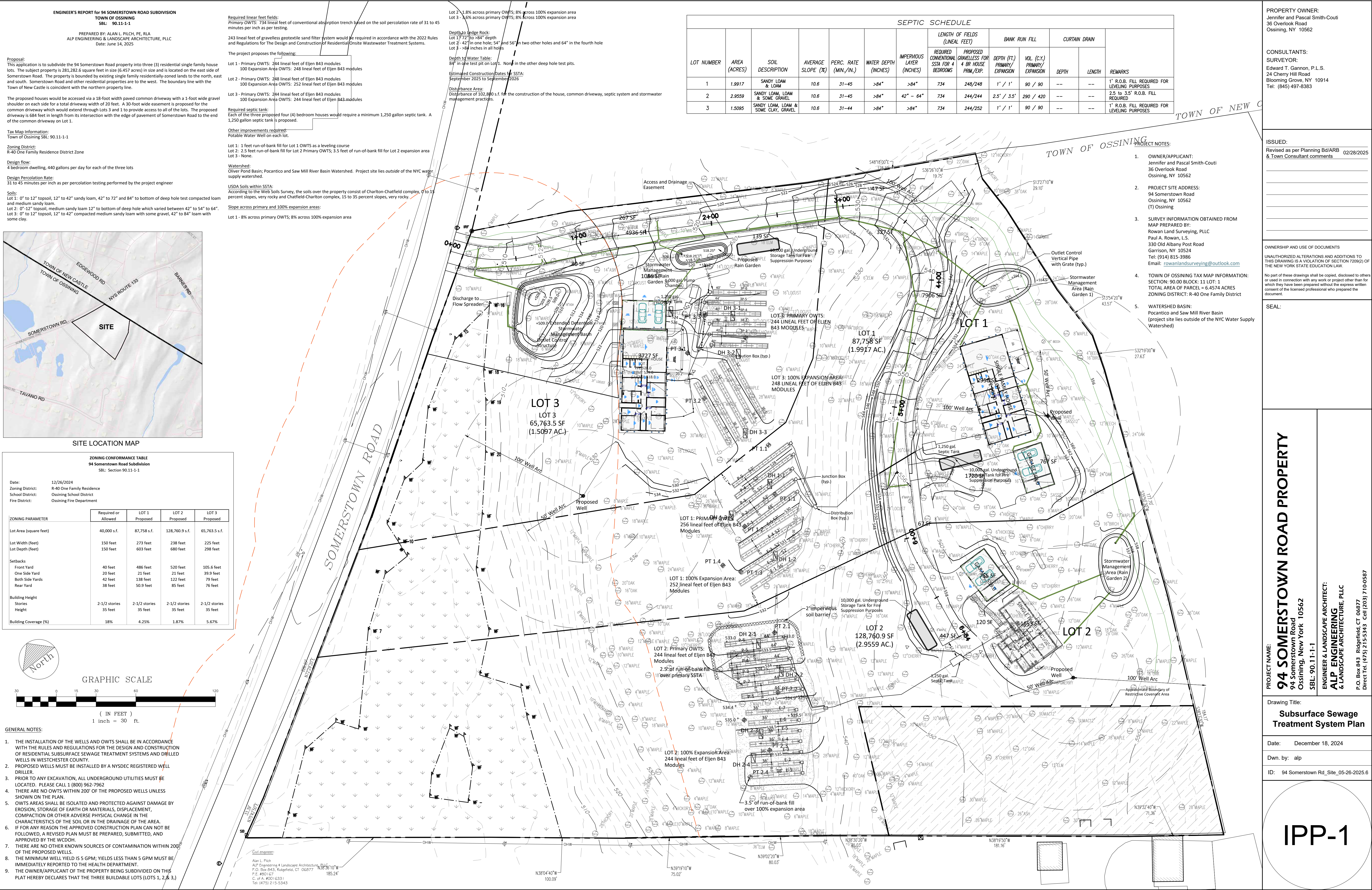




ENGINEER'S REPORT for 94 SOMERSTOWN ROAD SUBDIVISION

TOWN OF OSSINING

SBL: 90.11-1-1

PREPARED BY: ALAN L. PILCH, PE, RLA

ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC

Date: June 14, 2025

Proposal:

This application is to subdivide the 94 Somerstown Road property into three (3) residential single family house lots. The subject property is 281,282.6 square feet in size (6.457 acres) in size and is located on the east side of Somerstown Road. The property is bounded by existing single family residentially-zoned lands to the north, east and south. Somerstown Road and other residential properties are to the west. The boundary line with the Town of New Castle is coincident with the northern property line.

The proposed houses would be accessed via a 18-foot wide paved common driveway with a 1-foot wide gravel shoulder on each side for a total driveway width of 20 feet. A 30-foot wide easement is proposed for the common driveway which would extend through Lots 3 and 1 to provide access to all of the lots. The proposed driveway is 684 feet in length from its intersection with the edge of pavement of Somerstown Road to the end of the common driveway on Lot 1.

Tax Map Information:

Town of Ossining SBL: 90.11-1-1

Zoning District:

R-40 One Family Residence District Zone

Design flow:

4 bedroom dwelling, 440 gallons per day for each of the three lots

Design Percolation Rate:

31 to 45 minutes per inch as per percolation testing performed by the project engineer

Soils:

Lot 1: 0" to 12" topsoil, 12" to 42" sandy loam, 42" to 72" and 84" to bottom of deep hole test compacted loam and medium sandy loam.

Lot 2: 0" -12" topsoil, medium sandy loam 12" to bottom of deep hole which varied between 42" to 54" to 64".

Lot 3: 0" to 12" topsoil, 12" to 42" compacted medium sandy loam with some gravel, 42" to 84" loam with some clay.

Required linear feet fields:

Primary OWTS: 734 linear feet of conventional absorpion trench based on the soil percolation rate of 31 to 45 minutes per inch as per testing.

243 linear feet of gravelless geotextile sand filter system would be required in accordance with the 2022 Rules and Regulations for The Design and Construction of Residential Onsite Wastewater Treatment Systems.

The project proposes the following:

Lot 1 - Primary OWTS: 244 linear feet of Eljen B43 modules

100 Expansion Area OWTS: 248 linear feet of Eljen B43 modules

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Lot 3 - Primary OWTS: 244 linear feet of Eljen B43 modules

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Each of the three proposed four (4) bedroom houses would require a minimum 1,250 gallon septic tank. A 1,250 gallon septic tank is proposed.

Other improvements required:

Potable Water Well on each lot.

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Lot 2: 2.5 feet run-of-bank fill for Lot 2 Primary OWTS; 3.5 feet of run-of-bank fill for Lot 2 expansion area

Lot 3 - None.

Watershed:

Oliver Pond Basin; Pocantico and Saw Mill River Basin Watershed. Project site lies outside of the NYC water supply watershed.

USDA Soils within SSTA:

According to the Web Soils Survey, the soils over the property consist of Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky and Chatfield-Charlton complex, 15 to 35 percent slopes, very rocky.

Slope across primary and 100% expansion areas:

Lot 1 - 8% across primary OWTS; 8% across 100% expansion area

SEPTIC SCHEDULE

LOT NUMBER	AREA (ACRES)	SOIL DESCRIPTION	AVERAGE SLOPE (%)	PERC. RATE (MIN./IN.)	WATER DEPTH (INCHES)	IMPERVIOUS LAYER (INCHES)	LENGTH OF FIELDS (LINEAL FEET)		BANK RUN FILL		CURTAIN DRAIN		REMARKS
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TOWN OF NEW CASTLE

TOWN OF OSSINING

PROJECT NOTES:

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Jennifer and Pascal Smith-Couti

36 Overlook Road

Ossining, NY 10562

2. PROJECT SITE ADDRESS:

94 Somerstown Road

Ossining, NY 10562

(T) Ossining

3. SURVEY INFORMATION OBTAINED FROM MAP PREPARED BY:

Rowan Land Surveying, PLLC

Paul A. Rowan, L.S.

330 Old Albany Post Road

Garrison, NY 10524

Tel: (914) 815-3986

Email: rowanlandsurveying@outlook.com

4. TOWN OF OSSINING TAX MAP INFORMATION:

SECTION: 90.00 BLOCK: 11. LOT: 1

TOTAL AREA OF PARCEL = 6.4574 ACRES

ZONING DISTRICT: R-40 One Family District

5. WATERSHED BASIN:

Pocantico and Saw Mill River Basin

(project site lies outside of the NYC Water Supply Watershed)

ISSUED:

Revised as per Planning Bd/ARB & Town Consultant comments

02/28/2025

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94 SOMERSTOWN ROAD PROPERTY

94 Somerstown Road

Ossining, New York 10562

SBL: 90.11-1-1

ENGINEER & LANDSCAPE ARCHITECT:

ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC

P.O. Box 843 Rye Field, CT 06877

Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

Subsurface Sewage Treatment System Plan

Date:

December 18, 2024

Own. by:

alp

ID:

94 Somerstown Rd_Site_05-26-2025.6

IPP-1

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TOWN OF OSSINING

SBL: 90.11-1-1

PREPARED BY: ALAN L. PILCH, PE, RLA

ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC

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Ossining, New York 10562

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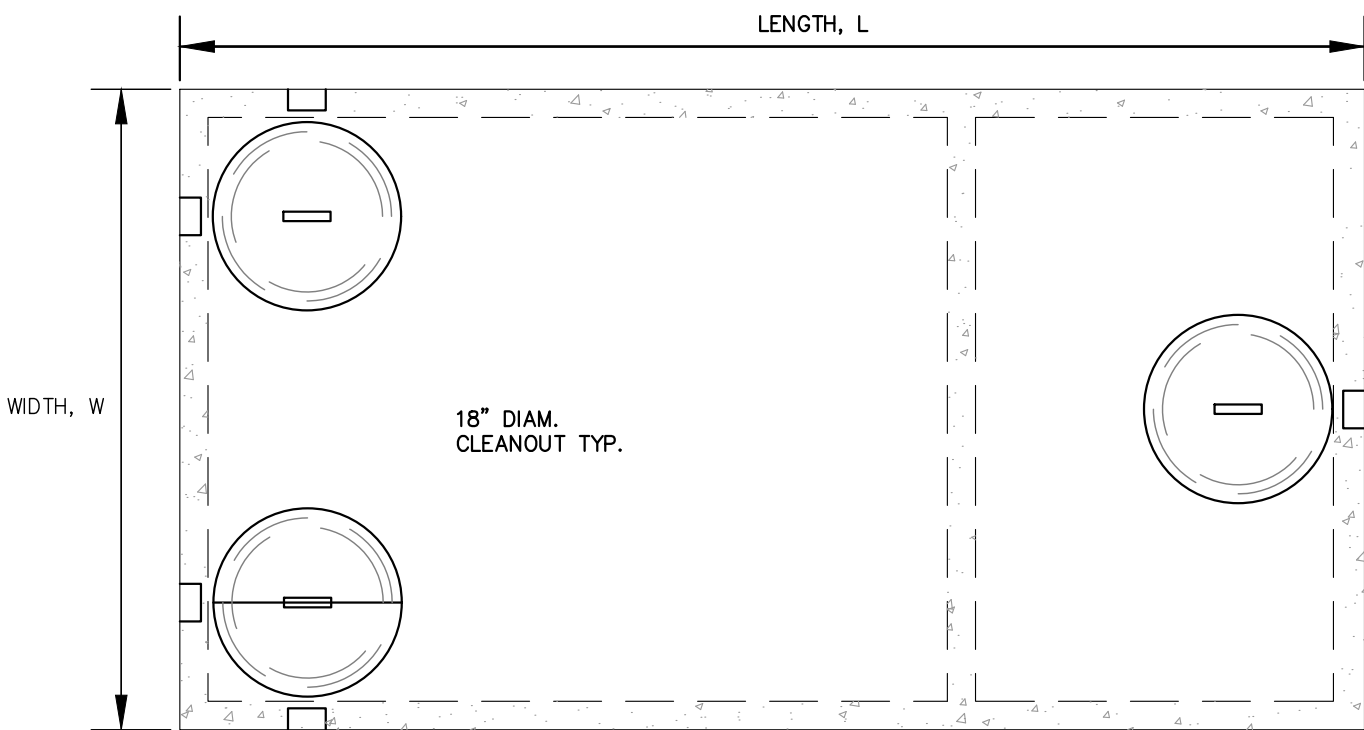
1,250 Gallon Septic Tank

1

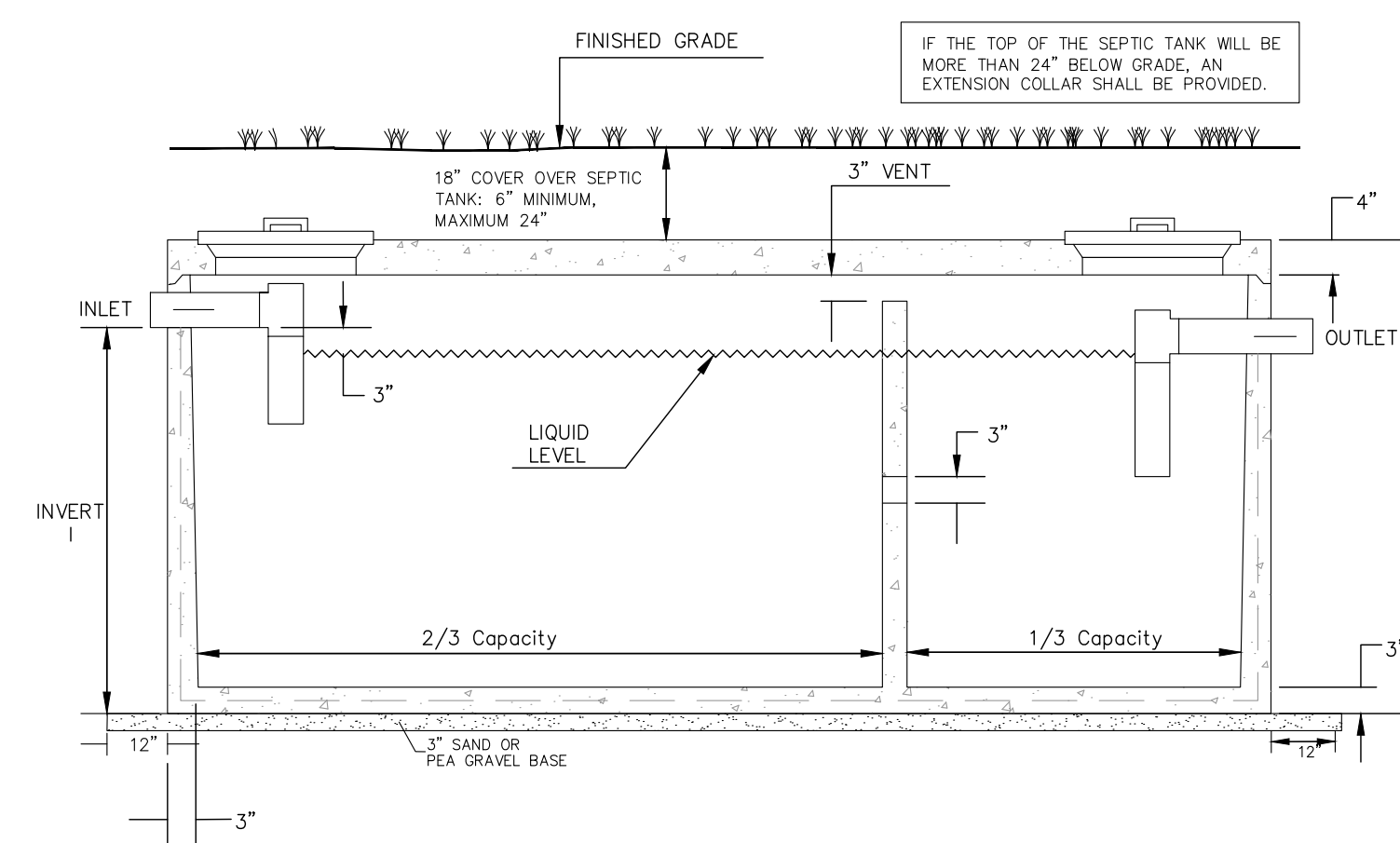
MODEL NO.	LIQUID CAPACITY	LENGTH L	WIDTH W	INVERT I	HEIGHT H	WEIGHT (LBS.)
T1250RES	1,250 GAL.	10'-6"	5'-8"	3'-8"	4'-6"	9,650 LBS.

NOTES:

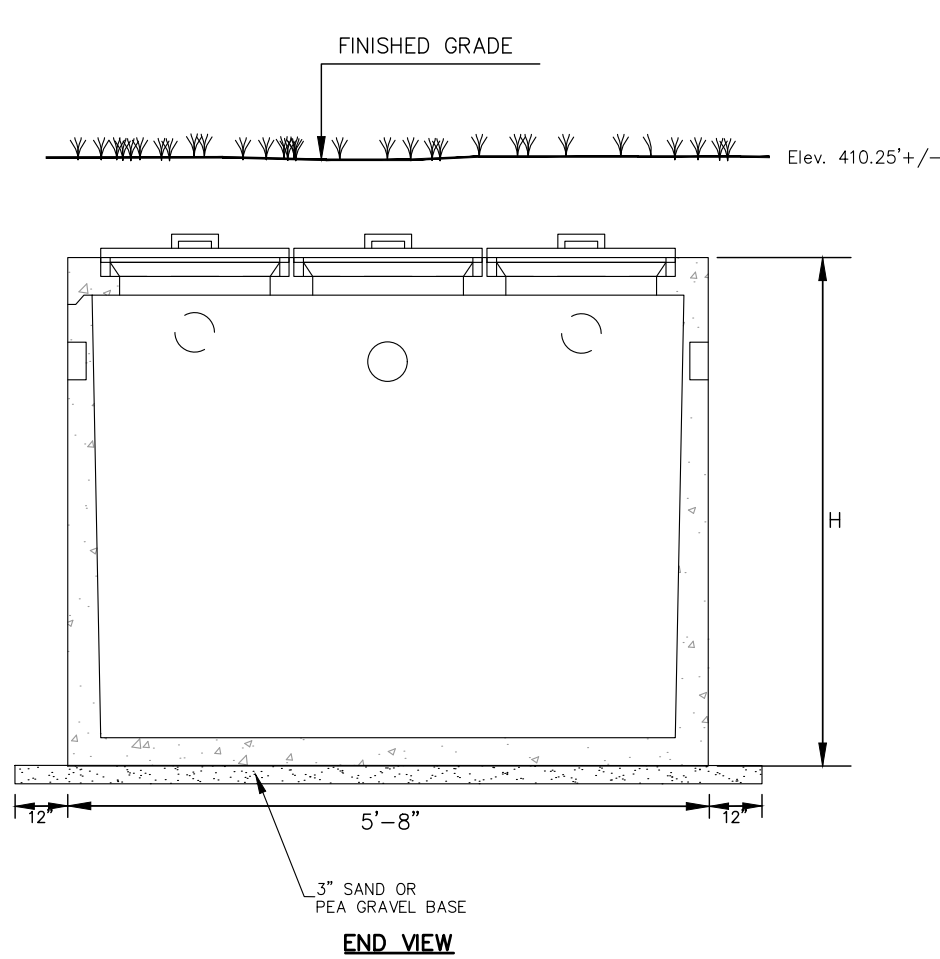
- Concrete - 4,000 PSI @ 28 days
- Meets or exceeds state and local requirements.
- All shiplap joints sealed with Butyl Rubber.
- Non-traffic loading use only.
- Two compartment tank. Monolithic design
- Side inlet pipes shall extend to cleanout cover thru cast iron pipe support.
- Maximum fill over top of tank - 3 feet.
- Tank shall be supplied with tees and baffle.
- Tank shall be marked with manufacturer name, phone number, tank capacity, date of manufacture, and ASTM C1227 conformance.
- Manufactured by Connecticut Precast Corp. 555 Fan Hill Road, Monroe, CT 06468 (www.ctprecast.com).



PLAN VIEW

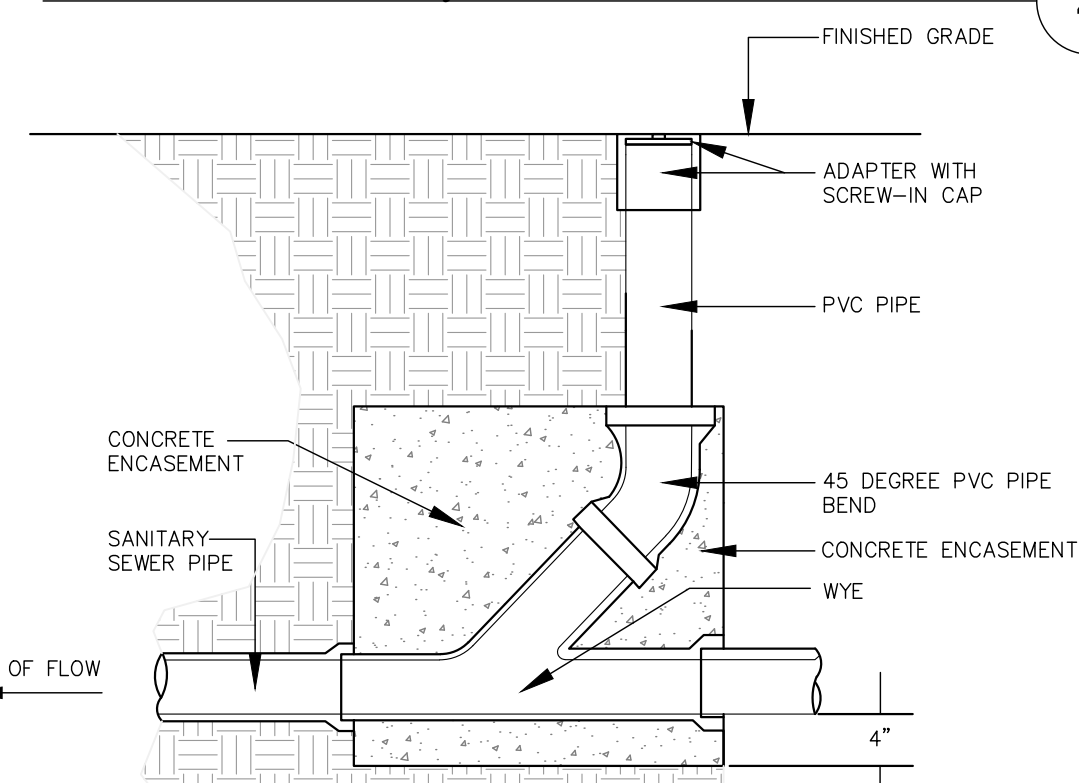


SECTION VIEW



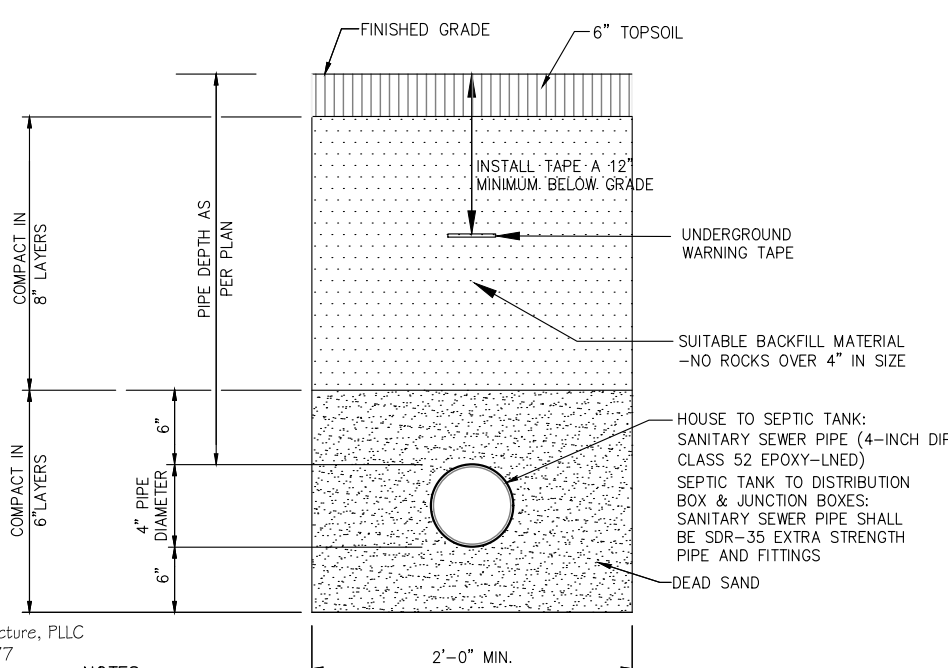
Sanitary Sewer Cleanout

4



Sanitary Sewer Pipe Trench

6



NOTES:

- COVER OVER SANITARY SEWER PIPE SHALL BE A MINIMUM OF FOUR (4) FEET FROM FINISHED GRADE TO TOP OF PIPE.

SANITARY SEWER PIPE SHALL BE CENTRIFUGALLY CAST IN ACCORDANCE WITH AWWA SPECIFICATIONS C-150 AND C-151, IN 18 OR 20 FOOT NOMINAL LENGTHS, CLASS 50. THE JOINT SHALL BE PUSH-ON TYPE THAT EMPLOYS A SINGLE ELONGATED, GROOVED, RUBBER GASKET TO EFFECT THE JOINT SEAL IN ACCORDANCE WITH AWWA SPECIFICATION C-111, AND SHALL UTILIZE THE LUBRICANT RECOMMENDED BY THE MANUFACTURER ON ALL JOINT SURFACES.

FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-110, RATED 250 PSI, AND SHALL BE FURNISHED WITH MECHANICAL JOINTS IN ACCORDANCE WITH AWWA SPECIFICATION C-111. ALL JOINTS SHALL BE FURNISHED COMPLETE WITH ACCESSORIES CONSISTING OF CAST IRON GLANDS, HIGH STRENGTH BOLTS AND NUTS, AND PLAIN RUBBER GASKETS.

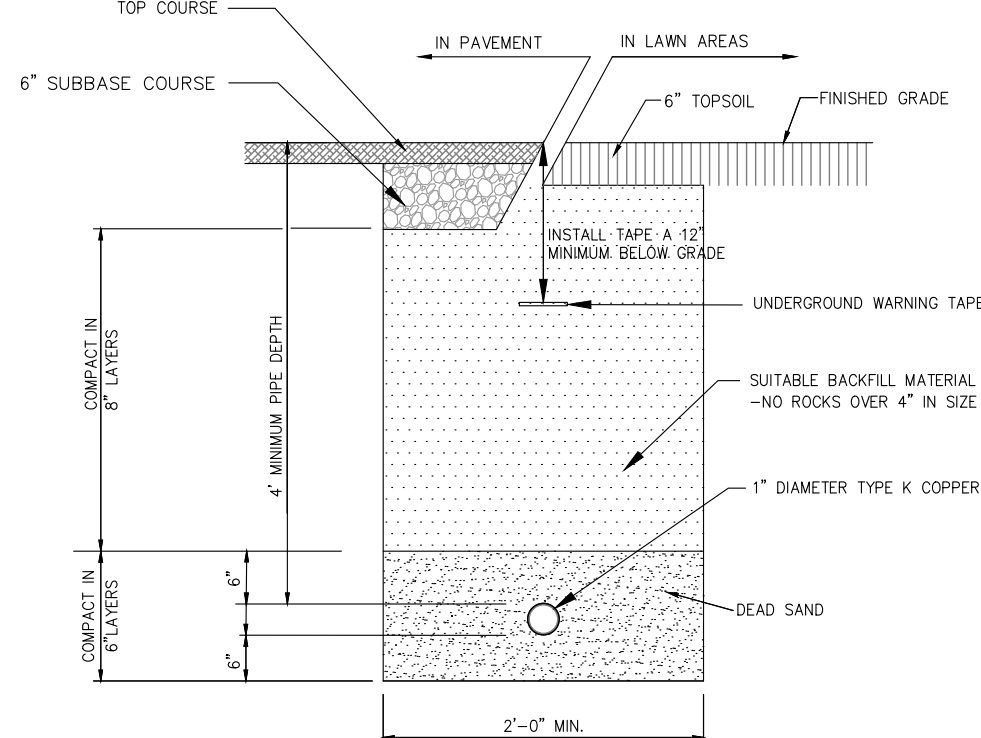
THE MANUFACTURER OF THE PIPE SHALL FURNISH TWO SILICON BRONZE WEDGES FOR EACH LENGTH OF PIPE TO BE USED IN THE PIPE INSTALLATION TO PROVIDE A POSITIVE MEANS OF ELECTRICAL CONDUCTIVITY ACROSS THE PIPE JOINT.

ALL PIPE AND FITTINGS SHALL BE COMPLETELY COATED INSIDE WITH CEMENT.

CLEANOUTS SHALL BE PROVIDED WITH A MINIMUM SPACING OF 50 FEET.

Water Service Pipe Trench

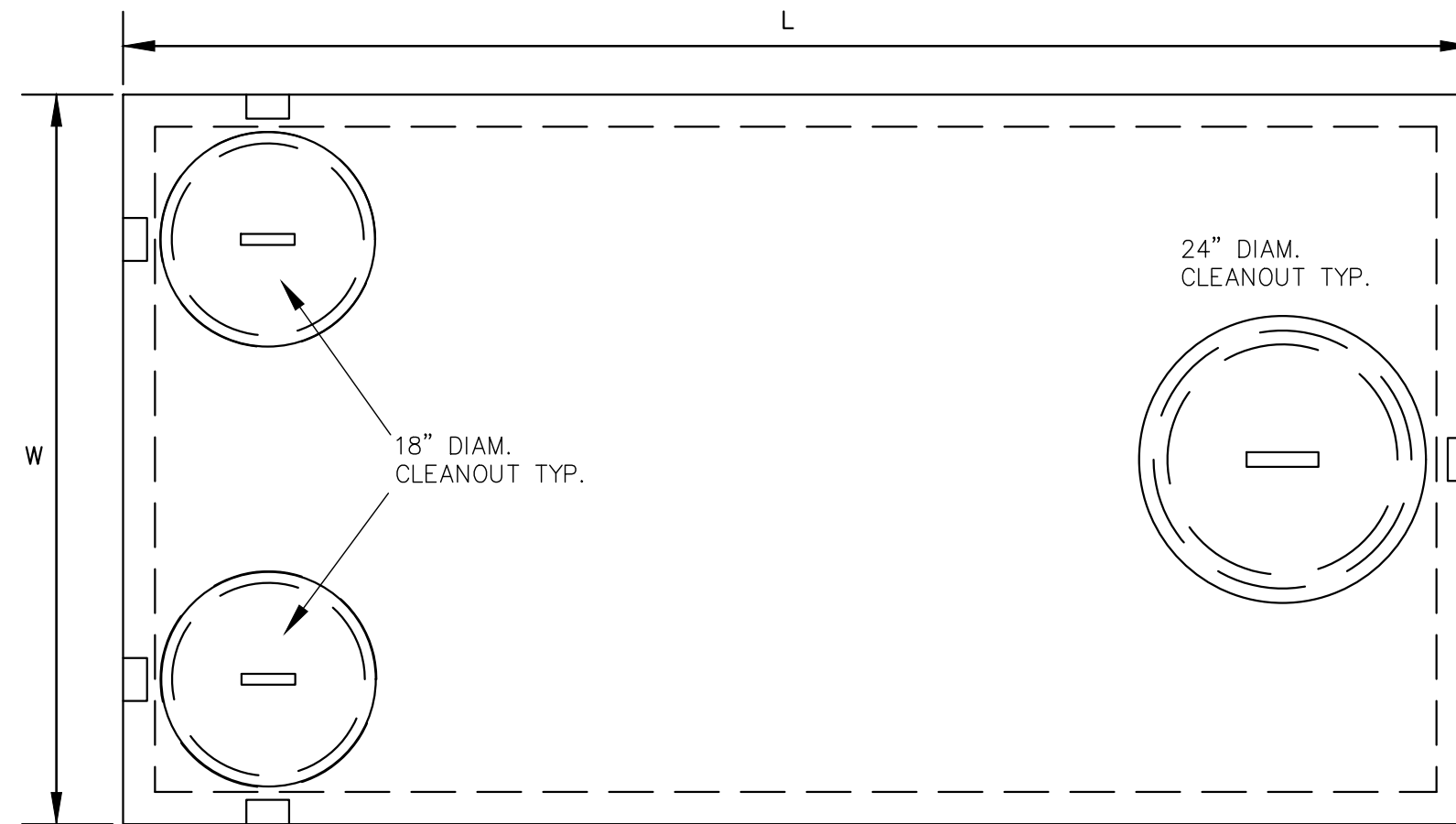
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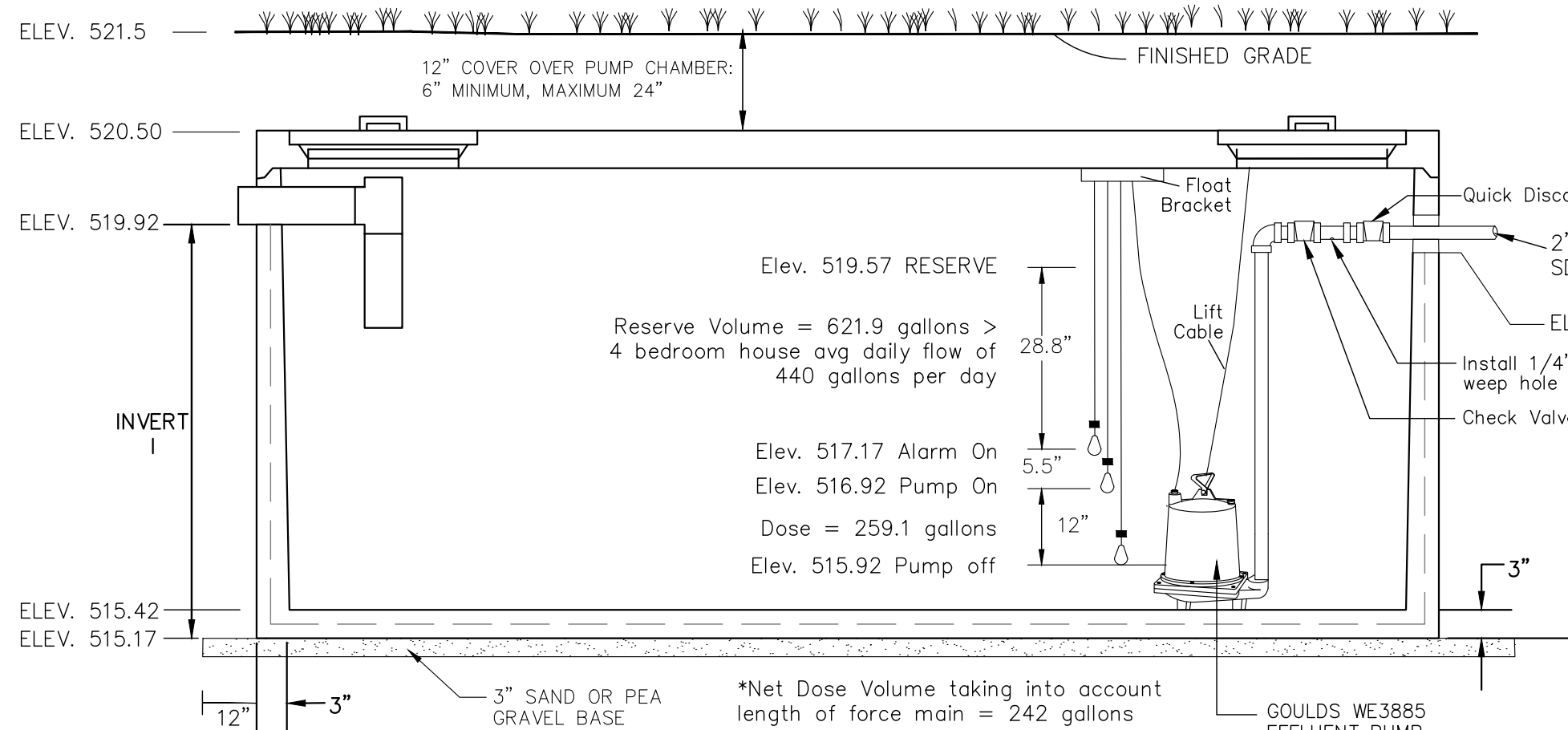
1,000 Gallon Pump Chamber for Lot 3

2

MODEL NO.	LIQUID CAPACITY	LENGTH L	WIDTH W	INVERT I	HEIGHT H	WEIGHT (LBS.)
P1000RES	1000 GAL.	8'-6"	4'-10"	4'-6"	5'-4"	8042



PLAN VIEW



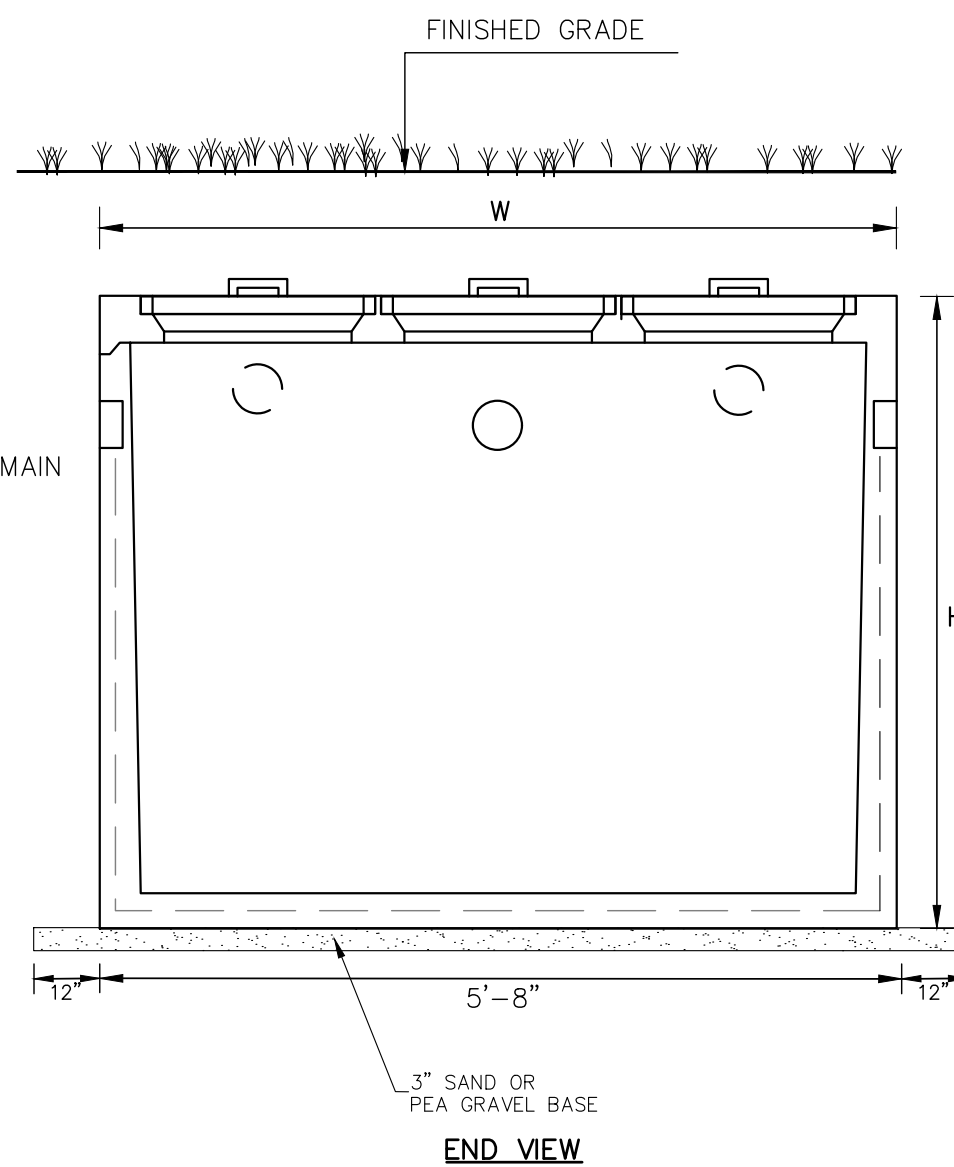
SECTION VIEW

NOTES:

- Concrete - 4,000 PSI @ 28 days.
- Meets or exceeds state and local requirements.
- All shiplap joints sealed with Butyl Rubber.
- Non-traffic loading use only.
- Single compartment chamber.
- Side inlet pipes shall extend to cleanout cover thru cast in pipe support.
- Maximum fill over top of tank - 3 feet.
- Chamber shall be supplied with tees.
- Chamber shall be marked with manufacturer name, phone number, tank capacity, date of manufacture, and ASTM C1227 conformance.
- Manufactured by Connecticut Precast Corp. 555 Fan Hill Road, Monroe, CT 06468 (www.ctprecast.com), or approved equal

IF THE TOP OF THE PUMP CHAMBER WILL BE MORE THAN 24" BELOW GRADE, A RISER AND MANHOLE SHALL BE PROVIDED.

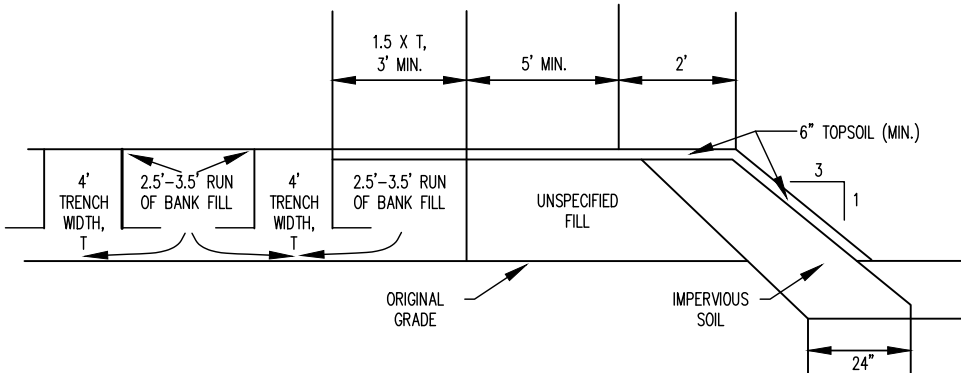
PROVIDE AUDIBLE/VISUAL ALARM IN DWELLING IN CONSPICUOUS LOCATION.



END VIEW

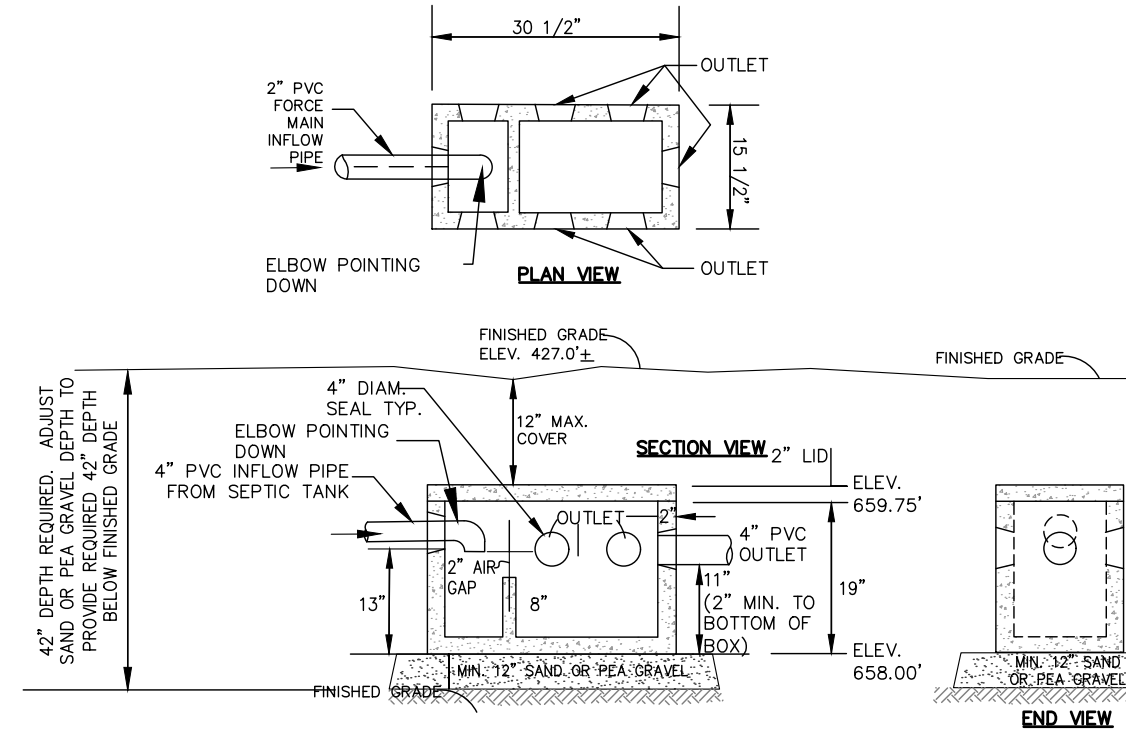
Typical Fill Section Detail (Lot 2)

5



Distribution Box

9



SPECIFICATIONS AS PER EASTERN PRECAST COMPANY, INC., BROOKFIELD, CONN.:

- CONCRETE MINIMUM COMPRESSIVE STRENGTH - 4,000 PSI @ 28 DAYS.
- STEEL REINFORCEMENT: WELDED WIRE MESH 6"x6"xW1.4/W1.4 ASTM A-185, OR EQUAL (LID) #3 DEFORMED BAR (GR. 40) ASTM A-615, OR EQUAL (BOX)
- FIBRE MESH REINFORCEMENT ASTM C-1116: EUCUD TUF-STRAND OR EQUAL @ A RATE OF 3.33 LBS/CY (BOX)
- 4" PIPE SEALS: TUF-TITE TS-4 PRO, OR EQUAL.
- APPROX. WEIGHT: BOX 280 LBS., LID 120 LBS.
- BAFFLE SHALL EXTEND 1" ABOVE THE OUTLET INVERT ELEVATION AS SHOWN.
- INVERTS OF ALL OUTLETS SHALL BE A MINIMUM OF 2" BELOW THE INVERT OF THE INLET AS SHOWN.
- THERE SHALL BE A MINIMUM OF 2 INCHES BETWEEN THE INVERT OF THE OUTLETS AND BOTTOM OF THE BOX.

NOTES:

- BOTTOM OF DISTRIBUTION BOX MUST BE LEVEL AND FIRMLY SUPPORTED TO BELOW FROST LINE. FOOTING TO EXTEND TO 36" BELOW FINISHED GROUND LEVEL. ADJUST THICKNESS OF SAND OR PEA GRAVEL TO ACHIEVE THE REQUIRE DEPTH.
- WATERPROOFED MASONRY CONSTRUCTION.
- NOT LESS THAN TWO OUTLETS WITH ONE OUTLET FOR EACH LATERAL.
- TIGHT JOINT PIPES FROM SEPTIC TANK TO DISTRIBUTION BOX AND FROM DISTRIBUTION BOX TO JUNCTION BOX AND TO LATERALS.
- SPEED LEVELER DEVICES ON EACH OUTLET IS REQUIRED TO ENSURE EQUAL FLOW DISTRIBUTION.
- ALL OUTLET PIPES SHALL BE CUT FLUSH WITH THE INSIDE OF THE DISTRIBUTION BOX.

ADDITIONAL NOTES:

- PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
- INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL USE OF FLOW EQUALIZATION DEVICES IS RECOMMENDED.
- THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX SHALL BE SLOPED AT LEAST 1/8" PER FOOT.
- THE SLOPE OF OUTLET PIPES (HEADER PIPES) BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTOR LATERALS SHALL BE A MINIMUM OF 1/32" PER FOOT.
- BAFFLE REQUIRED FOR SIPHON OR AUTOMATIC DOSING, OR IF INLET PIPE SLOPE EXCEEDS 1/2" PER FOOT.
- BAFFLE CAN BE BUILT IN OR A PIPE ELBOW OR TEE.
- THE BOXES SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

PROPERTY OWNER:
Jennifer and Pascal Smith-Couti
36 Overlook Road
Ossining, NY 10562

CONSULTANTS:
SURVEYOR:
Edward T. Gannon, P.L.S.
24 Cherry Hill Road
Blooming Grove, NY 10914
Tel: (845) 497-8383

ISSUED:

Revised as per Planning Bd/ARB
& Town Consultant comments 02/28/2025

OWNERSHIP AND USE OF DOCUMENTS

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SEAL:

PROJECT NAME:
94 SOMERSTOWN ROAD PROPERTY
94 Somerstown Road
Ossining, New York 10562

SBL-90.11-1-1
ENGINEER & LANDSCAPE ARCHITECT:
ALP ENGINEERING
& LANDSCAPE ARCHITECTURE, PLLC
P.O. Box 843 Ridgefield, CT 06877
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

Integrated Plot Plan
Construction Details

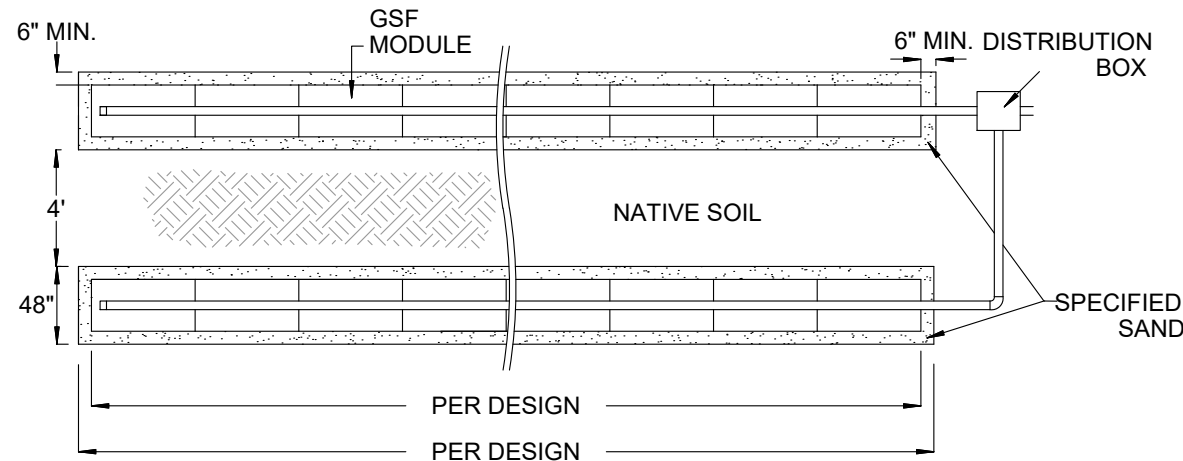
Date: June 26, 2025

Own. by: alp

ID: 94 Somerstown Rd_Site_05-26-2025.6

IPP-2

Eljen B43 Sand Filter Module (trench installation - plan view)

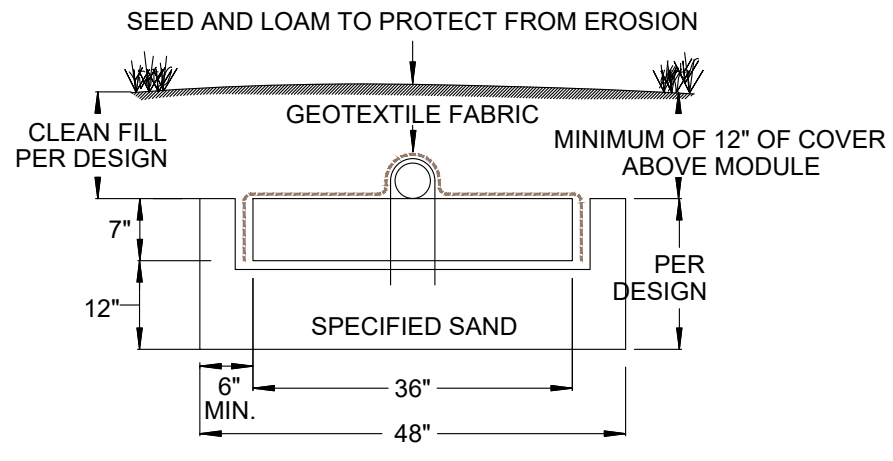


Eljen B43 Sand Filter Module NOTES FOR INSTALLATION

ELJEN Required Notes on Design Plans

- This design and construction requirement complies with Appendix 75-A and local health department regulations.
- This design complies with and must be installed in accordance with the most current Eljen New York Design and Installation Manual.
- This system is not designed for use with a garbage disposal.
- This system is not designed for backwash from a water softener.
- Organic material that can restrict flow must be removed for raised beds. The soil must be scarified to provide deep channels for the sand. A plowed interface on contour is recommended to prepare the soil for fill placement.
- Scarify any smeared subsoil prior to fill placement.
- Fill material shall meet or exceed State of New York Code requirements. All fill material shall be clean bank run sand, free of topsoil, humus, and "dredging" directly beneath the GSF system.

Eljen B43 Sand Filter Module (section view)



- ASTM C33 Specified Sand with less than 10% passing a #100 sieve and less than 5% passing a #200 sieve shall be placed below and around the GSF modules, with 6 inches minimum underneath and 6 inches minimum surrounding the GSF modules in trench configurations. In bed systems, use 6 inches minimum underneath the modules with 12 inches minimum between module rows and 12 inches minimum around the perimeter of the modules.
- Eljen provided geotextile cover fabric shall provide proper tension and orientation of the fabric around the sides of the perforated pipe on top of the GSF modules. Fabric should be neither too loose, nor too tight. The correct tension of the cover fabric is set by:
 - Spreading the cover fabric over the top of the module and down both sides of the module with the cover fabric tented over the top of the perforated distribution pipe.
 - Place shovel fulls of Specified Sand directly over the pipe area allowing the cover fabric to form a mostly vertical orientation along the sides of the pipe. Repeat this step moving down the pipe.
- Backfill material shall be clean with no roots or stones larger than 2 inches in any dimension to a minimum depth of 8 inches over the GSF modules and final cover for vegetation of 4 inches to 6 inches of clean loam.
- Any system which is more than 18 inches below finish grade as measured from the top of the module shall be vented.

Eljen B43 Sand Filter Module SPECIFIED SAND SPECIFICATIONS

Eljen Specified Sand Specifications

To ensure proper system operation, Eljen Corporation requires all of its GSF and Mantis Systems to be installed using an ASTM C33 sand with less than 10% passing a #100 sieve, and less than 5% passing a #200 sieve. Reference the Eljen GSF or Mantis Design and Installation Manual for your state for the proper amount of specified sand required for installation. Installers should request a sieve analysis from their material supplier to ensure that the specified sand that they are purchasing for use during installation of the Eljen GSF or Mantis systems meets the specified sand requirements listed below.

Sieve Size	Sieve Square Opening Size	Specification Percent Passing
.375"	9.5 mm	100.0
#4	4.75 mm	95.0 - 100.00
#8	2.36 mm	80.0 - 100.0
#16	1.18 mm	50.0 - 85.0
#30	600 µm	25.0 - 60.0
#50	300 µm	5.0 - 30.0
#100	150 µm	< 10.0
#200	75 µm	< 5.0

Eljen B43 Sand Filter Module CUT SHEET

B43 Eljen Geotextile Sand Filter



The Eljen GSF (Geotextile Sand Filter) is an alternative onsite septic leachfield system. Each GSF Module is made up of geotextile fabric and a plastic core material that work together to provide vertical surface area and oxygen transfer. The GSF System applies secondary treated effluent to the soil, increasing the soil's long-term acceptance rate. A Specified Sand layer provides additional filtration, and prevents saturated conditions.

INSTALLATION

Installation shall comply with the latest installation instructions published by Eljen Corporation and abide by local regulations. Eljen Modules are installed along their 4-foot lengths on a base of stabilized Specified Sand, with the painted stripe facing up. A 4" perforated pipe is centered on top of the Modules, and is secured with supplied metal clamps (one per Module). Cover fabric is supplied by Eljen and substitutions are not allowed. Specified Sand is placed along both sides of the Module, and at the beginning and end of each row once the cover fabric is in place.

For more specifications and detailed installation instructions consult the appropriate Design and Installation Manual.



Innovative Onsite Products and Solutions Since 1970

Tel: 800-444-1359 • Fax: 860-610-0427

Email: info@eljen.com

www.eljen.com

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4

PROPERTY OWNER:
Jennifer and Pascal Smith-Couti
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Ossining, NY 10562

CONSULTANTS:
SURVEYOR:
Edward T. Gannon, P.L.S.
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P.O. Box 843 Riggfield, CT 06877
Direct Tel (475) 215-5343 Cell (203) 710-0587

Drawing Title:

Subsurface Sewage Treatment System Plan

Date: June 26, 2025

Dwn. by: alp

ID: 94 Somerstown Rd_Site_05-26-2025.6

IPP-3

94 SOMERSTOWN ROAD LOT 3 - PUMP CHAMBER DESIGN

House FFE	528.00 feet
Basement Slab Elevation	519.00 feet
Invert of Pipe at House	524.00 feet
Length of Pipe (House to Septic Tank)	23 feet
Slope of Pipe from House to Septic Tank	0.1413 feet per foot

SEPTIC TANK (1,250 gallons)		Septic Tank Dimensions	
Elevation		Overall Length	10.50 feet
Grade at Septic Tank	522.50 feet	Overall Width	5.67 feet
Top of Tank	521.75 feet	Overall Height	4.67 feet
Bottom of Tank	517.08 feet	Inlet Height	3.67 feet
Invert In	520.75 feet	Outlet Height	3.42 feet
Invert Out	520.50 feet		

PUMP CHAMBER (1,000 gallons)		Pump Chamber Dimensions	
Elevation		Overall Length	8.50 feet
Grade at Pump Chamber	521.50 feet	Overall Width	4.83 feet
Top of Pump Chamber	520.50 feet	Overall Height	5.33 feet
Bottom of Pump Chamber (exterior)	515.17 feet	Inlet Height	4.50 feet
Bottom of Pump Chamber (interior)	515.42 feet	Outlet Height	4.25 feet
Invert into Pump Chamber	519.92 feet		
Invert out of Pump Chamber	519.67 feet		

PUMP DESIGN	
Low level "OFF" of pump chamber:	elev = 515.92 feet
Elevation of pumping crest	elev = 526.00 feet

REMARKS
Pump Off elevation at pump chamber
Invert elevation at receiving distribution box

Static head = 10.08 feet

difference in elevations

Length of 2" force main:	105 feet
Volume of 2" force main:	2,291 cubic feet
	17.13 gallons

Friction loss at flow:	gal/min 0.33 #100 feet
	Friction loss = 0.32 feet

as per calculation calculated

Pump station and Valve P/L Losses (allow):		# assumed friction loss
90 degree elbow	20.8 feet	4
gate valve	1.4 feet	1
Friction head =	22.5 feet	
Total dynamic head =	32.80 feet	
Say,	33 feet	

friction loss + pump str and valve p/l losses
static head + friction head

Pump Off Elevation =	515.92 feet
Pump On Elevation =	516.92 feet
Draw =	1.00 foot
Draw =	12.00 inches

pump off 4" above bottom of chamber
as per design
draw in feet
converted to inches

USE: Goulds WE Series Effluent Pump, Model 3885
Order Number WE0511H, 115v, 3450 RPM, 14.5 amps

NET DOSE VOLUME CALCULATION	
Inlet Length of Chamber =	8.00 feet
Inlet Width of Chamber =	4.33 feet
Inlet Area of Chamber =	34.64 sq feet
Lineal feet of absorption fields (primary area) =	244 lineal feet
Number of Modules =	61 modules
Approx. Required Dose as per Regulations =	244 gallons
Volume of Dose =	259.1 gallons
Less Volume in Force Main Pipes =	17.1 gallons
Net Dose Volume =	242.0 gallons

as per specification
as per specification
calculated
as per plan
as per manufacturer
equal to approx. 50% of length of fields
volume in force main
volume of dose less volume in force main

RESERVE VOLUME CALCULATION	
Alarm On Elevation =	517.17 feet
Alarm on Elevation - Pump On Elevation =	5.50 inches

calculated elevation
as per design

Reserve Elevation (maximum) = 519.57 feet

3" below invert out elevation

Volume in Chamber Above Alarm On Level Until Alarm Sounds =	8.7 cubic feet
Volume Until Alarm Sounds =	64.8 gallons

calculated
calculated

Reserve Volume in Pump Chamber =	83.1 cubic feet
Reserve Volume in Pump Chamber =	621.9 gallons

calculated
> than 1 day's flow

TECHNICAL BROCHURE B3885 R2



FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components. Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

WE Series Model 3885

SUBMERSIBLE EFFLUENT PUMPS



Goulds Water Technology

Wastewater

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: 3/4" maximum
- Discharge size: 2" NPT
- Capacities: up to 140 GPM
- Total heads: up to 128 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/2 - 1 1/2 HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

AGENCY LISTINGS

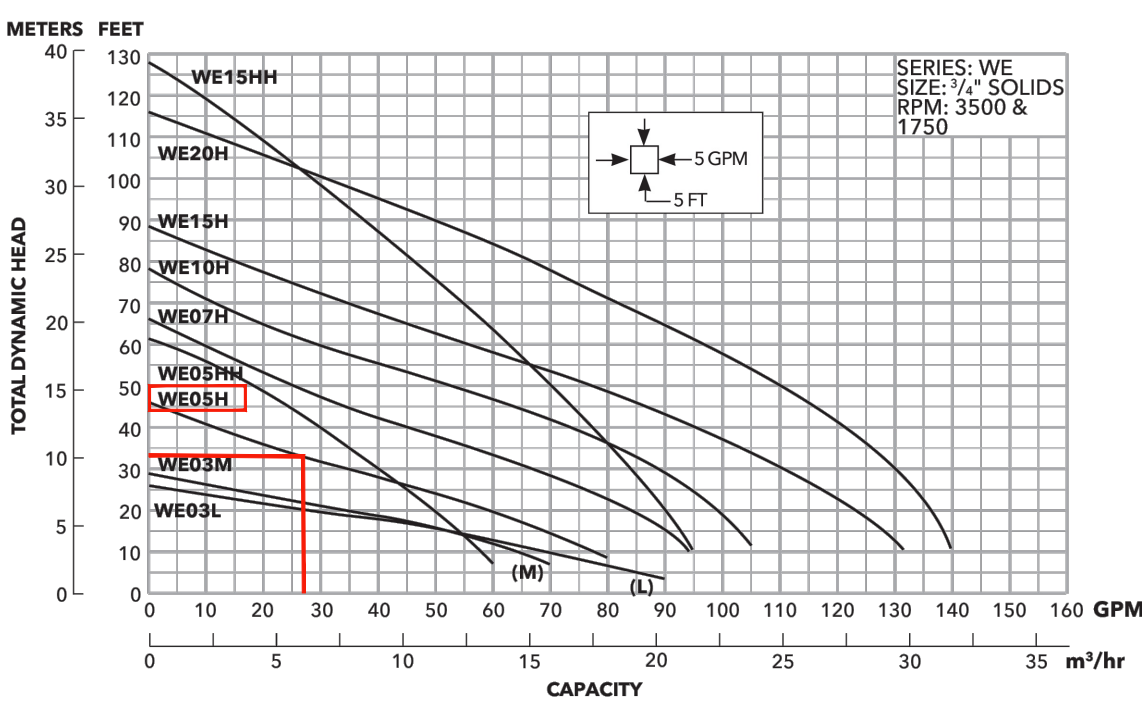
- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/2 - 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor and provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 718 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR38549



PAGE 2

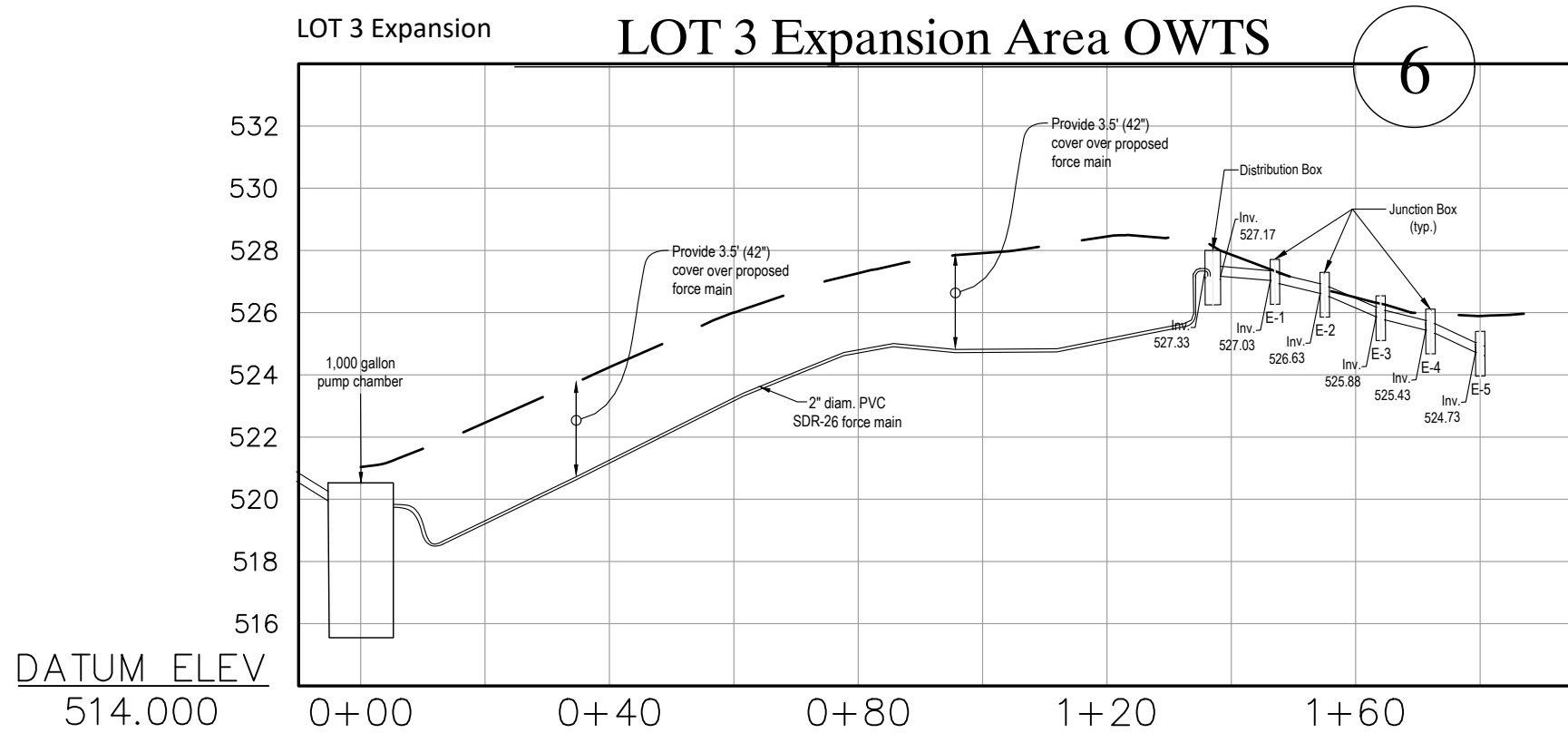
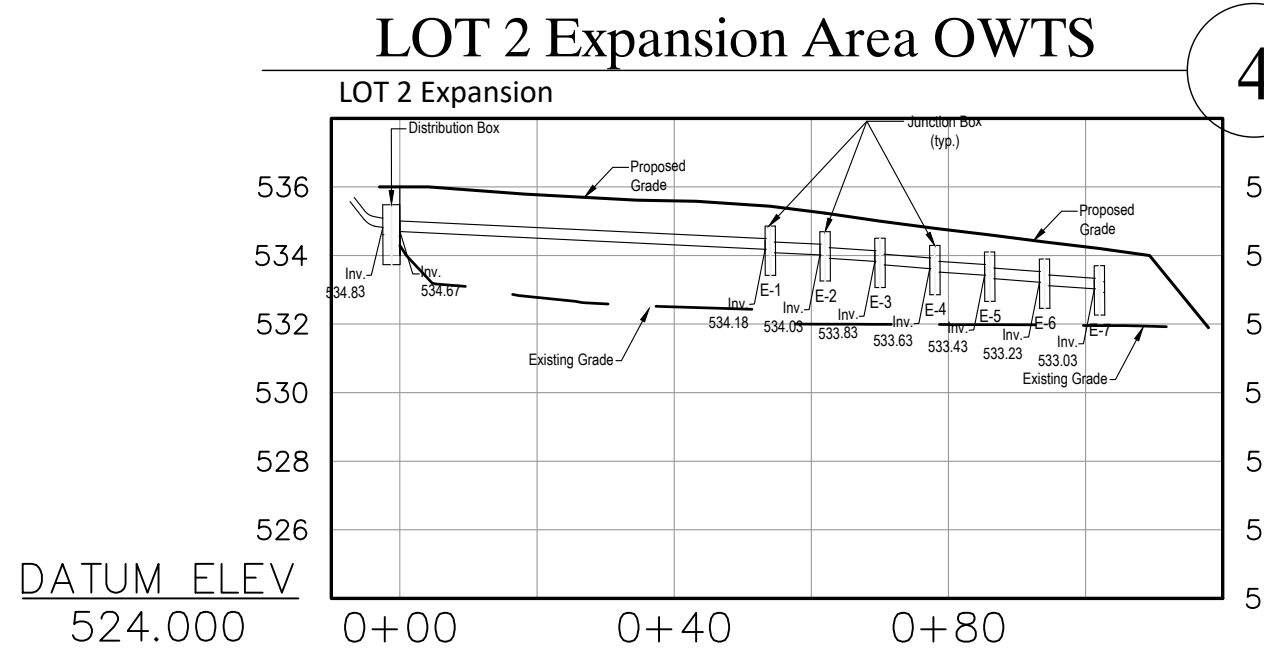
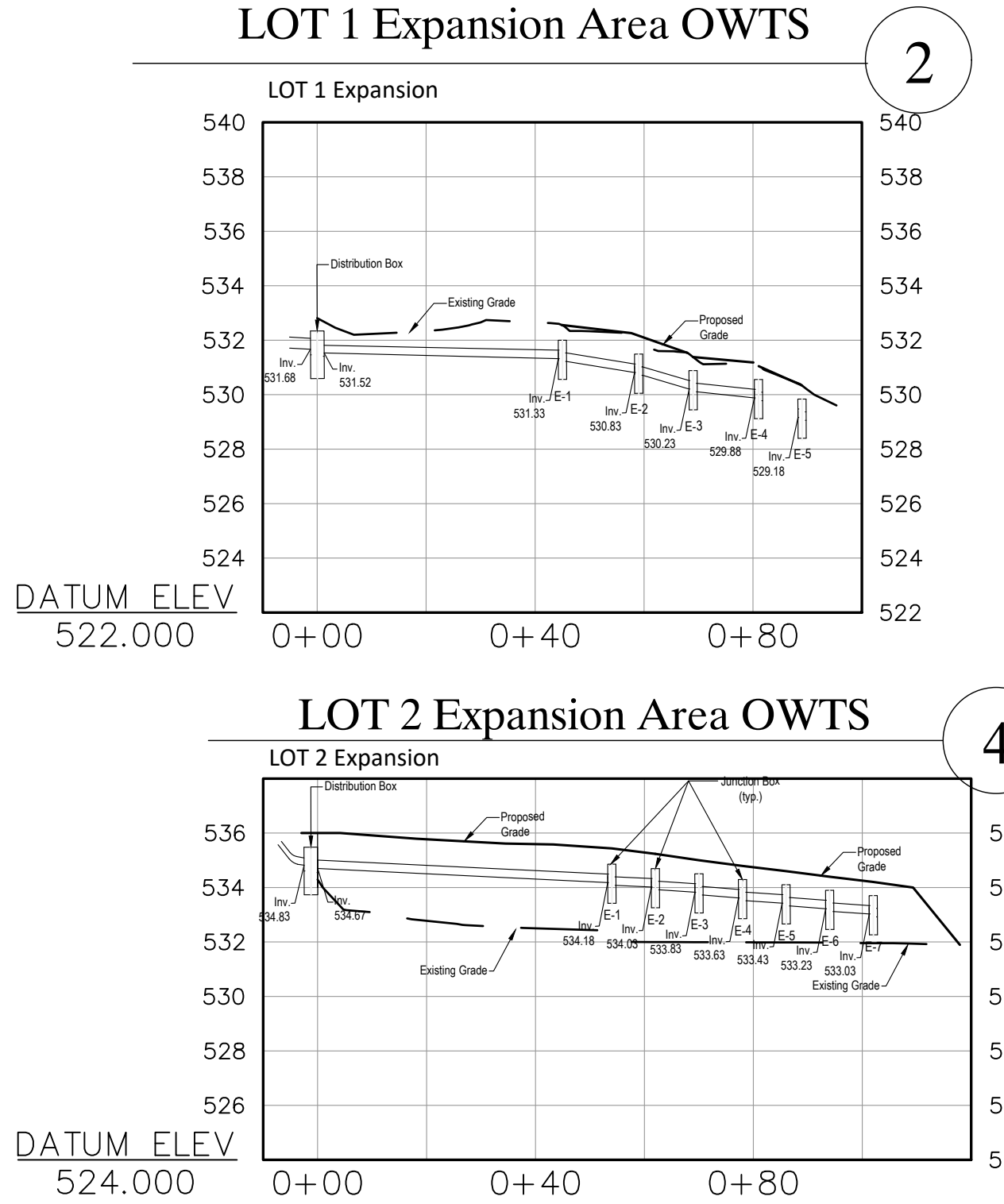
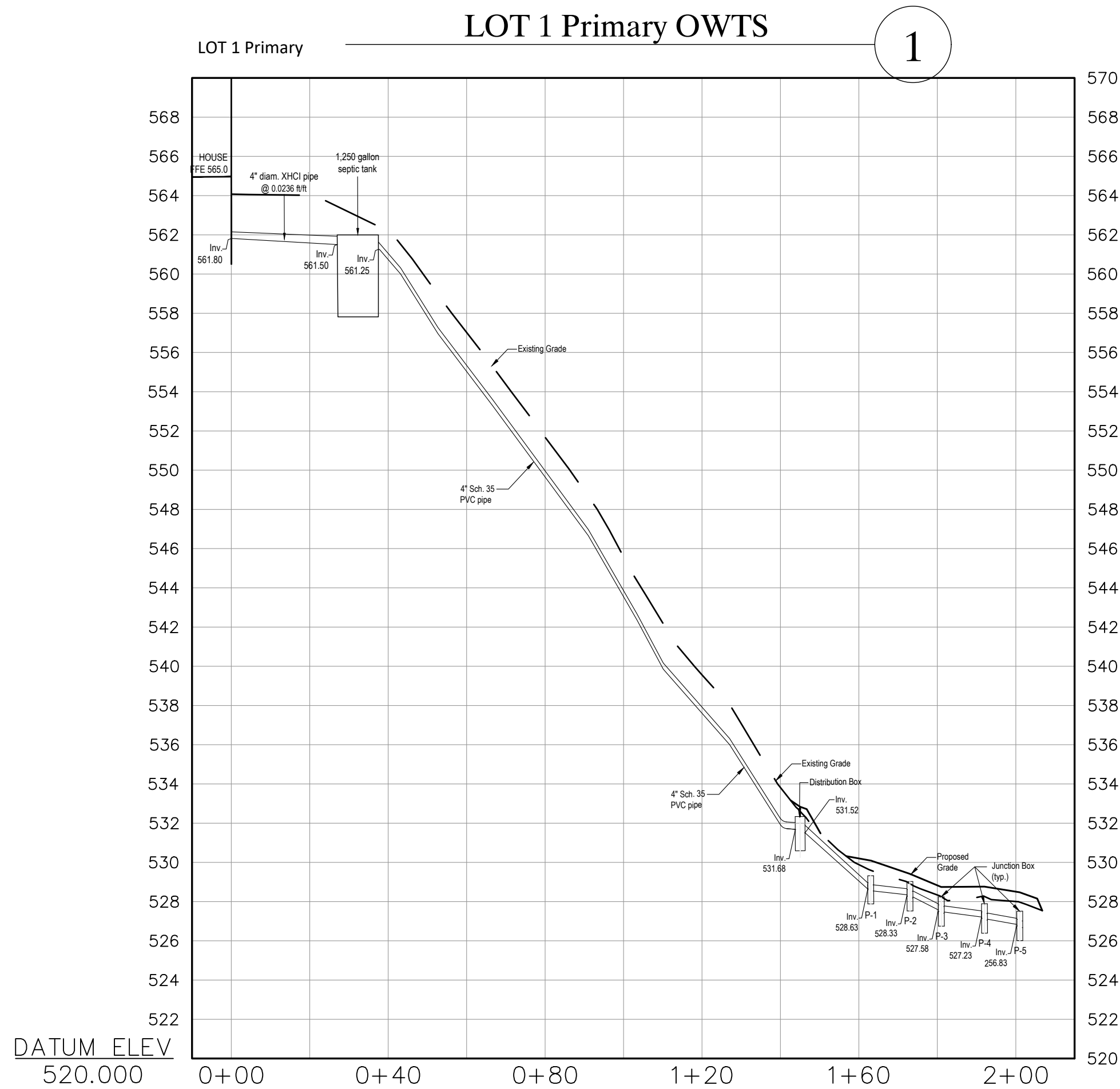
Goulds Water Technology

Wastewater

MODELS

Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance Start Line-Line	Power Cable Size	Weight (lbs.)
WE0311L	115					10.7	30.0	M	54	11.9	1.7	
WE0318L	208					6.8	19.5	K	51	9.1	4.2	
WE0312L	230					4.9	14.1	L	53	14.5	8.0	
WE0311M	115					10.7	30.0	M	54	11.9	1.7	
WE0318M	208					6.8	19.5	K	51	9.1	4.2	
WE0312M	230					4.9	14.1	L	53	14.5	8.0	
WE0511H	115					14.5	46.0	M	54	7.5	1.0	14/3
WE0518H	208					8.1	31.0	K	68	9.7	2.4	
WE0512H	230					7.3	34.5	M	53	9.6	4.0	
WE0538H	200					4.9	22.6	R	68	NA	3.8	
WE0532H	230					3.3	18.8	R	70	NA	5.8	
WE0534H	460					1.7	9.4	R	70	NA	23.2	14/4
WE0537H	575					1.4	7.5	R	62	NA	35.3	
WE0511H	115					14.5	46.0	M	54	7.5	1.0	14/3
WE0518H	208					8.1	31.0	K	68	9.7	2.4	
WE0512H	230					7.3	34.5	M	53	9.6	4.0	
WE0538H	200					4.9	22.6	R	68	NA	3.8	
WE0532H	230					3.3	18.8	R	70	NA	5.8	
WE0534H	460					1.8	9.4	R	70	NA	23.2	
WE0537H	575					1.5	7.5	R	62	NA	35.3	
WE0718H	110					11.0	31.0	K	68	9.7	2.4	
WE0712H	230					10.0	27.5	J	65	12.2	2.7	
WE0738H	200					4.2	20.6	L	64	NA	5.7	
WE0732H	230					5.4	15.7	K	68	NA	8.6	
WE0734H	460					2.7	7.9	K	68	NA	34.2	
WE0737H	575					2.2	9.9	L	78	NA	26.5	
WE1018H	208					14.0	59.0	K	68	9.3	1.1	
WE1012H	230					12.5	36.2	J	69	10.3	2.1	
WE1038H	200					8.1	37.6	M	77	NA	2.7	
WE1032H	230					7.0	24.1	L	79	NA	4.1	
WE1034H	460					3.5	12.1	L	79	NA	16.2	
WE1037H	575					2.8	9.9	L	78	NA	26.5	
WE1518H	110					17.5	59.0	K	68	9.3	1.1	
WE1512H	230					15.7	50.0	H	68	11.3	1.6	
WE1538H	200					10.6	40.6	K	79	NA	1.9	
WE1532H	230					9.2	31.7	K	78	NA	2.9	
WE1534H	460					4.6	15.9	K	78	NA	11.4	
WE1537H	575					3.7	13.1	K	75	NA	16.9	
WE1518H	110					17.5	59.0	K	68	9.3	1.1	
WE1512H	230					15.7	50.0	H	68	11.3	1.6	
WE1538H	200					10.6	40.6	K	79	NA	1.9	
WE1532H	230					9.2	31.7	K	78	NA	2.9	
WE1534H	460					4.6	15.9	K	78	NA	11.4	
WE1537H	575					3.7	13.1	K	75	NA	16.9	
WE2018H	110					18.0	49.6	F	78	3.2	1.2	
WE2032H	230					12.0	42.4	K	78	NA	1.7	
WE2034H	460					5.8	21.2	K	78	NA	6.6	
WE2037H	575					4.7	16.3	L	78	NA	10.5	

PAGE 3



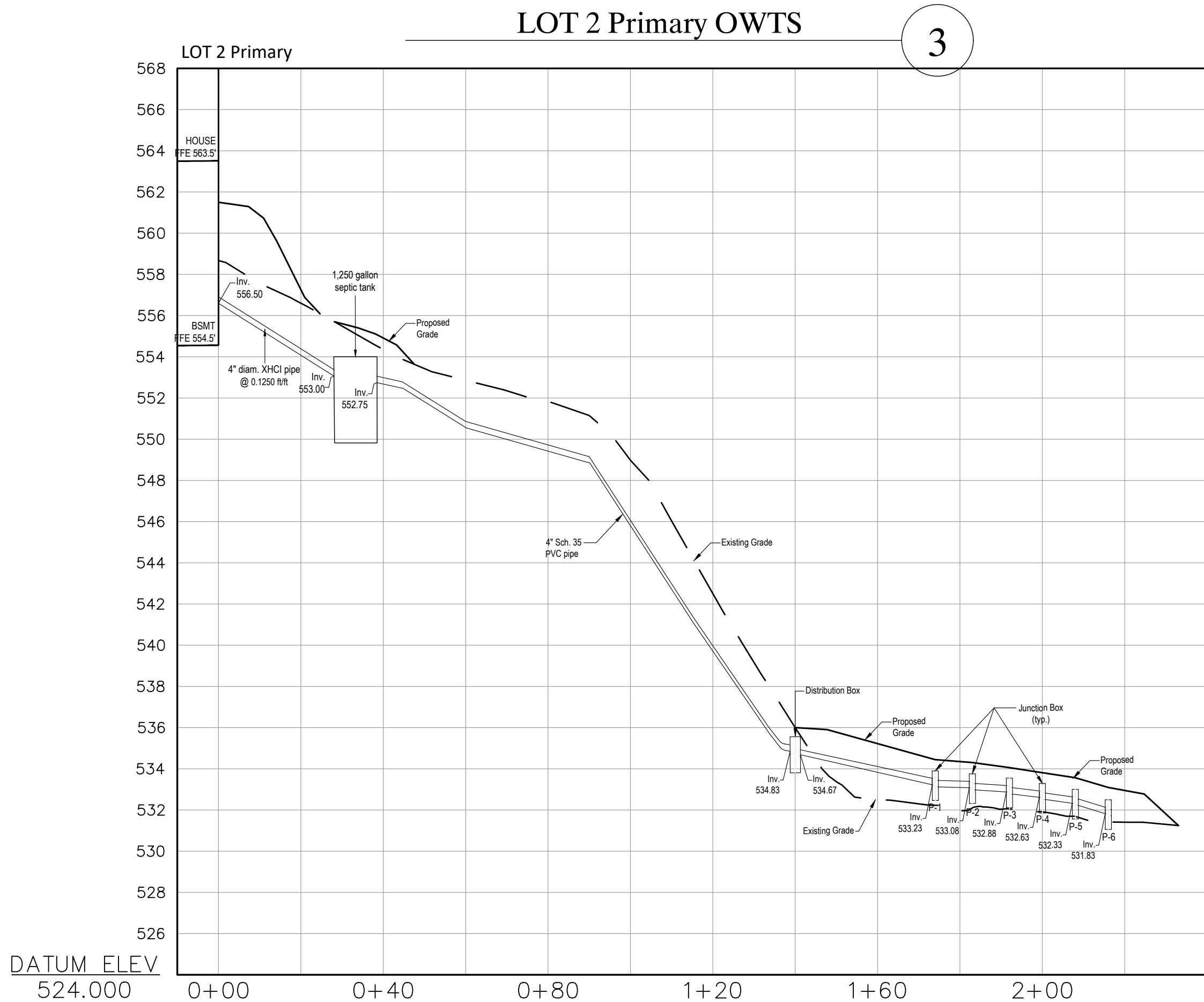
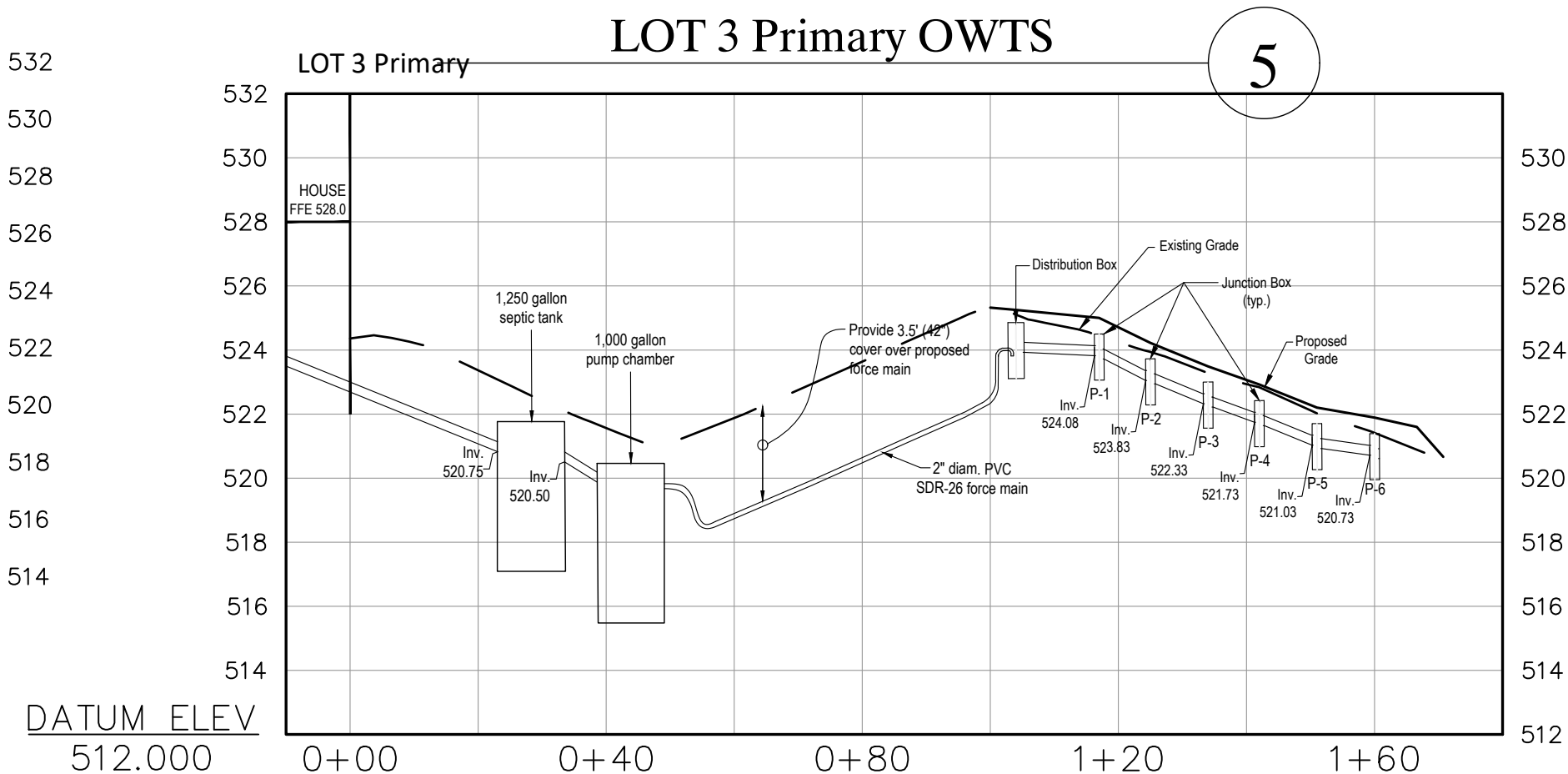
LOT 1 OWTS DESIGN

Invert of Pipe at House	561.80 feet
Length of Pipe House to Tank	12.7 feet

Elevation	Remarks	Septic Tank Dimensions
Grade at Septic Tank	as per plan	Overall Length 10.50 feet
Top of Tank	1.5 feet below grade	Overall Width 5.67 feet
Bottom of Tank	as per detail	Overall Height 4.67 feet
Invert In	as per detail	Inlet Height 3.67 feet
Invert Out	3" drop	Outlet Height 3.42 feet
Slope from House to Septic Tank	0.0236 feet per foot	

PRIMARY	D-BOX	J-BOX 1P-1	J-BOX 1P-2	J-BOX 1P-3	J-BOX 1P-4	J-BOX 1P-5
Grade	532.85	529.80	529.50	528.75	528.40	528.00
Cover over Box (in inches)	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	532.35	529.30	529.00	528.25	527.90	527.50
Inflow Pipe	531.68	528.63	528.33	527.58	527.23	526.83
Outflow/Overflow Pipe	531.52	528.55	528.25	527.50	527.15	
Bottom of Box	530.60	527.88	527.58	526.83	526.48	526.08

EXPANSION AREA	D-BOX	J-BOX E1	J-BOX E2	J-BOX E3	J-BOX E4	J-BOX E5
Grade	532.85	532.50	532.00	531.40	531.05	530.35
Cover over Box (in inches)	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	532.35	532.00	531.50	530.90	530.55	529.85
Inflow Pipe	531.68	531.33	530.83	530.23	529.88	529.18
Outflow Pipe	531.52	531.25	530.75	530.15	529.80	
Bottom of Box	530.60	530.58	530.08	529.48	529.13	528.43



LOT 2 OWTS DESIGN

Invert of Pipe at House	556.50 feet
Length of Pipe House to Tank	28 feet

Elevation	Remarks	Septic Tank Dimensions
Grade at Septic Tank	as per plan	Overall Length 10.50 feet
Top of Tank	1.5 feet below grade	Overall Width 5.67 feet
Bottom of Tank	as per detail	Overall Height 4.67 feet
Invert In	as per detail	Inlet Height 3.67 feet
Invert Out	3" drop	Outlet Height 3.42 feet
Slope from House to Septic Tank	0.1250 feet per foot	

PRIMARY	D-BOX	J-BOX 2P-1	J-BOX 2P-2	J-BOX 2P-3	J-BOX 2P-4	J-BOX 2P-5	J-BOX 2P-6
Grade	536.00	534.40	534.25	534.05	533.80	533.50	533.00
Cover over Box (in inches)	6	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	535.50	533.90	533.75	533.55	533.30	533.00	532.50
Inflow Pipe	534.83	533.23	533.08	532.88	532.63	532.33	531.83
Outflow/Overflow Pipe	534.67	533.15	533.00	532.80	532.55	532.25	531.75
Bottom of Box	533.75	532.48	532.33	532.13	531.88	531.58	531.08

EXPANSION AREA	D-BOX	J-BOX E1	J-BOX E2	J-BOX E3	J-BOX E4	J-BOX E5	J-BOX E6	J-BOX E7
Grade	536.00	535.35	535.20	535.00	534.80	534.40	534.20	534.20
Cover over Box (in inches)	6	6	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	535.50	534.85	534.70	534.50	534.30	533.90	533.70	533.70
Inflow Pipe	534.83	534.18	534.03	533.83	533.63	533.43	533.23	533.03
Outflow Pipe	534.67	534.10	533.95	533.75	533.55	533.35	533.15	532.95
Bottom of Box	533.75	533.43	533.28	533.08	532.88	532.68	532.48	532.28

LOT 3 OWTS DESIGN

Invert of Pipe at House	523.50 feet
Length of Pipe House to Tank	23 feet

Elevation	Remarks	Septic Tank Dimensions
Grade at Septic Tank	as per plan	Overall Length 10.50 feet
Top of Tank	0.75 feet below grade	Overall Width 5.67 feet
Bottom of Tank	as per detail	Overall Height 4.67 feet
Invert In	as per detail	Inlet Height 3.67 feet
Invert Out	3" drop	Outlet Height 3.42 feet
Slope from House to Septic Tank	0.1196 feet per foot	

PUMP CHAMBER (1,000 gallons)	Elevation	Pump Chamber Dimensions
Grade at Pump Chamber	521.50 feet	Overall Length 8.50 feet
Top of Pump Chamber	520.50 feet	Overall Width 4.83 feet
Bottom of Pump Chamber (exterior)	515.17 feet	Overall Height 5.33 feet
Bottom of Pump Chamber (interior)	515.42 feet	Inlet Height 4.50 feet
Invert into Pump Chamber	519.92 feet	Outlet Height 4.25 feet
Invert out of Pump Chamber	519.67 feet	

PRIMARY	D-BOX	J-BOX 3P-1	J-BOX 3P-2	J-BOX 3P-3	J-BOX 3P-4	J-BOX 3P-5	J-BOX 3P-6
Grade	525.25	525.00	524.25	523.50	522.90	522.20	521.90
Cover over Box (in inches)	6	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	524.75	524.50	523.75	523.00	522.40	521.70	521.40
Inflow Pipe	524.08	523.83	523.08	522.33	521.73	521.03	520.73
Outflow/Overflow Pipe	523.92	523.75	523.00	522.25	521.65	520.95	520.65
Bottom of Box	523.00	523.08	522.33	521.58	520.98	520.28	519.98

EXPANSION AREA	D-BOX	J-BOX E1	J-BOX E2	J-BOX E3	J-BOX E4	J-BOX E5
Grade	528.50	528.20	527.80	527.05	526.60	525.90
Cover over Box (in inches)	6	6	6	6	6	6
Cover over Box (in feet)	0.50	0.50	0.50	0.50	0.50	0.50
Top of Box	528.00	527.70	527.30	526.55	526.10	525.40
Inflow Pipe	527.33	527.03	526.63	525.88	525.43	524.73
Outflow Pipe	527.17	526.95	526.55	525.80	525.35	
Bottom of Box	526.25	526.28	525.88	525.13	524.68	523.98

PROPERTY OWNER:
Jennifer and Pascal Smith-Couti
36 Overlook Road
Ossining, NY 10562

CONSULTANTS:
SURVEYOR:
Edward T. Gannon, P.L.S.
24 Cherry Hill Road
Blooming Grove, NY 10914
Tel: (845) 497-8383

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94 SOMERSTOWN ROAD PROPERTY
94 Somerstown Road
Ossining, New York
SBL-90.11-1-1

ENGINEER & LANDSCAPE ARCHITECT:
ALP ENGINEERING
& LANDSCAPE ARCHITECTURE, PLLC
P.O. Box 843 Ridgefield, CT 06877
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:
Subsurface Sewage
Treatment System Profiles

Date: June 26, 2025
Dwn. by: alp
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