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Portions or all of this Proposed System Configuration Drawing,

site-specific layout and configuration of a system by its designer

as appropriate, may be reproduced and integrated into the

General Notes:

Tank Volumes: Total Volume: 1220 gal± Nominal Volume: 1000 gal± @ 48"

Unit volume at typical Operating Depth: 20 gal./in.±

Loads: Top = 500 psf minimum

Lateral Load = 62.4 pcf, EFP

Concentrated Wheel Load = 2500 lb.

The septic tank shall be capable of withstanding long-term hydrostatic loading, in addition to the soil loading, due to a water table maintained at

ground surface.

Soil Bearing = 1000 psf (re-evaluate support base if soil bearing is less or unequal)

Method of calcuations:

1. Tanks shall be analyzed using strength design methods and finite element analysis for buried structures.

- 2. Calculations shall address the following:
- buckling
- deflection of 0.5 1% of the tank diameter, based on service load (including long-term deflection lag)
- buovancy

3. Performance testing shall include vacuum testing followed by a hydrostatic test.

Material: Resin: polydicyclopentadiene

The properties listed here along with the minimum thickness as shown in the details are considered design minimums that must be maintained during the manufacturing of the tanks. The primary strength properties are listed below:

Property	DCPD	<u>Property</u>	DCPD	
Flexural modulus E _f	274,000 psi	Compressive strength F_C	9,200 psi	
Tensile strength F _t	6,700 psi	Shear In-Plane F_S	7,180 psi	
Flexural strength F _b	10,500 psi	Flexural Rigidity	585 psi	

Poisson ratio = 0.400 (Any permanent metal part shall be 300 series stainless steel.)

Height Total Inches Gallons

60-1217

54 1124 48-1006 42-1-881

36-744 30---601

18----324 12-200 6-183

Installation: Installation, bedding, compaction, etc., shall be in "strict" compliance with the manufacturers standards and state or local rules and or guidelines. All tanks shall be set level on a minimum 4 inch thick compacted sand or approved granular bedding overlying a firm uniform base. The base shall be stable and uniform in order to ensure equal bearing across the tank bottom. Installations with 18 inches or less of ground cover may require additional buoyancy considerations as described in the manufacturers instructions. A minimum cover of 12 inches is required over the tank in areas subject to occasional light wheel loads. Refer to installation instructions Document NIM-LOS-1.

Test: Tanks shall be tested and certified watertight per manufacturers recommendations and or any prevailing rules or guidelines, whichever is more

Tank Markings: Place marking on the upper most surface over the outlet. Nominal Liquid capacity: $\underline{1000~gal.}~\pm$

Max burial depth: 5ft.

Max traffic (wheel): 2500 lbs.

Date manufactured:

Permit no.:

4"Ø Inlet → 2	(opt	ce Box ional)		1	
5.5"	48				
•	Baff	M1000	Tank ale: 1"		Detail

Disclaimer: This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems's designer. Meander Tank 1000 Gravity with Effluent Filter **DESIGN AID**

Drawn By:	BAS / CSJ	Scale: /	" = 2	?'-0"	
Reviewed By:	DN / TB	Sheet:	1	0F	. 1
File Name:	NDW-TD-MEA-100-3.DWG	Rev: 5.0	Da	te:	12/16/2022

30"Ø Access

Effluent Filter

Riser