

As Proposed 30,000 Tunnel Tank Fire Cistern



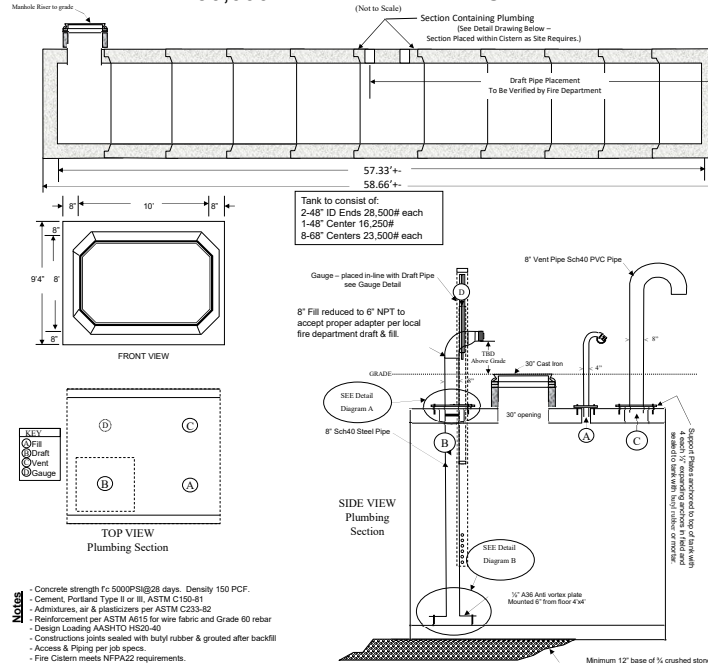
SAMPLE—FIRE CISTERN PIPING  
Actual Piping per  
Local Fire Department Standards.

Scope of work: Lamarre Concrete will provide the tank, and other items as ordered. We bring the items to your site and set them in place. The tanks must be in the ground and backfilled for a period of time (usually a week +) to settle then we come back and seal them inside. All on site excavation is done by others. We can handle placing the tank pieces into place as long as the site allows our truck to be within reach. If this is not possible due to site restrictions then a crane would need to be hired to work along with us. We would still be in charge of properly placing the tanks BUT the cost of the crane would NOT be our expense. The bollard, if they meet your needs, would be dropped on site. Setting in place would be done by others.

Dewatering of the hole must be maintained to bottom of tank until 24 hours after the sealing is complete. Dewatering IS the responsibility of the purchaser. There will be an additional charge should extra effort is required to deal with water in the hole.

Lead time - 3-4 weeks.

SAMPLE PIPE PLACEMENT  
30,000 Tunnel Tank – Fire Cistern



- NOTES**
- Concrete strength Fc 5000PSI@28 days. Density 150 PCF.
  - Cement, Portland Type II or III, ASTM C150-81
  - Admixtures, air & plasticizers per ASTM C233-82
  - Reinforcement per ASTM A615 for wire fabric and Grade 60 rebar
  - Design Loading AASHTO HS20-40
  - Construction joints sealed with butyl rubber & grouted after backfill
  - Access & Piping per job specs.
  - Fire Cistern meets NFPA22 requirements.

July 6, 2021  
SOS-221273

Lamarre Concrete Products, Inc.  
P.O. Box 333  
Greenville, NH 03048  
Attn: Mike Lamarre

Reference: Tunnel Tank Fire Cistern Statement of Process, 30,000 Gallon Tank

Dear Mr. Lamarre,

This letter is to summarize our opinion on the water tightness of the 30,000 gallon cistern tunnel tanks manufactured by William N. Lamarre Concrete Products, Inc.

The tanks are manufactured to meet 310 CSOR 13.00, Mass Title V regulations for septic tanks. The tanks are manufactured in controlled conditions using a concrete mix having a minimum 28 day compressive strength of 5,000 psi.

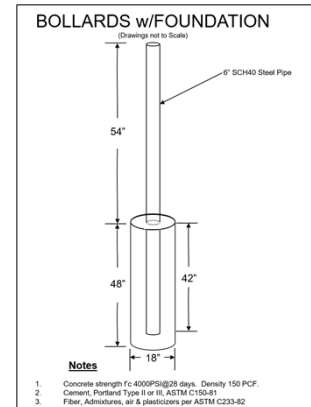
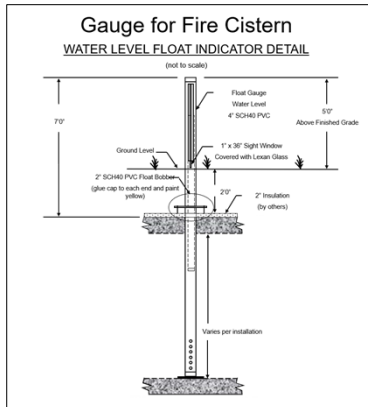
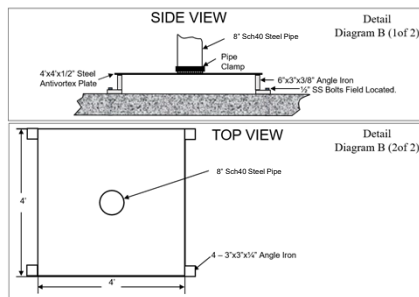
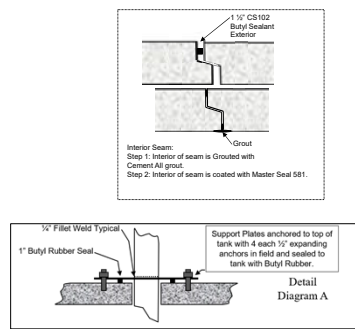
The tanks are installed with CrestSeal CS-102 Butyl Rubber Sealant placed on the exterior side of the end flange where each box segment joins the adjacent box segment. After backfill the joint is then sealed on the inside by cement grout then coated with MasterSeal.

It is our opinion that this process produces a water tight tank.

The cistern tunnel tank, fabricated in accordance with the attached sketch, exceeds a volume of 30,000 gallons.

Respectfully Submitted,  
Summit Geosystems Services, Inc.  
*William M. Peterlein*  
William M. Peterlein, P.E.  
President & Principal Engineer

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