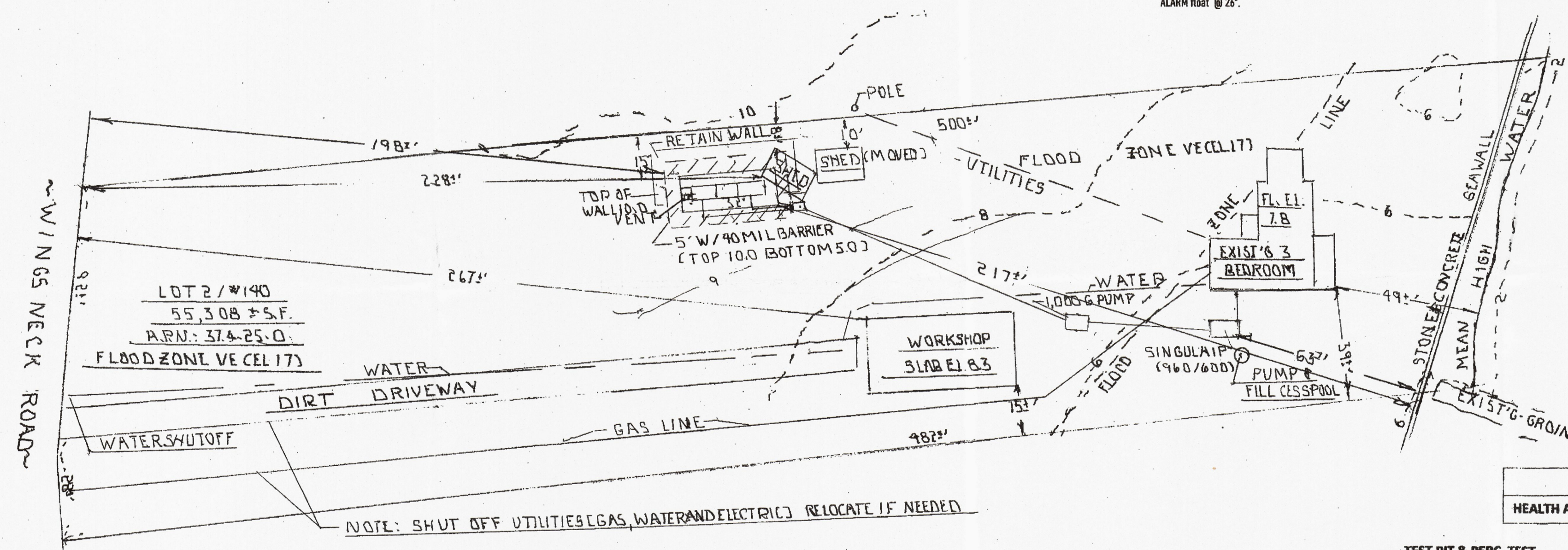
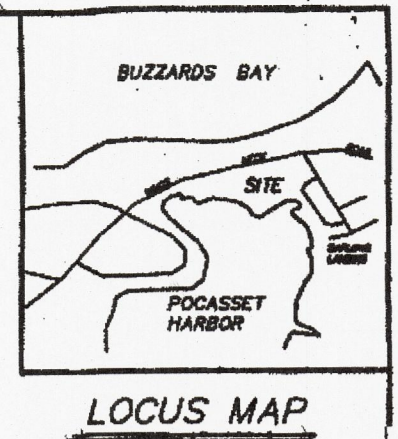


PROFILE OF DISPOSAL SYSTEM

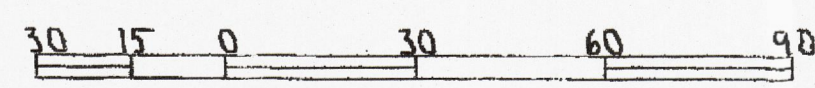
NOTES:

- Disposal System to be constructed in strict accordance with Comm. of Mass. Environmental Code Title V.
- This plan is for sole purpose of construction of a septic system.
- Contractor to call Dig-Safe at least 72 hours prior to beginning of excavation.
- Install a Singlair model 960-600 GPD nitrogen removal system.
- Use a new (H-20) 1,000 gal. MONO Pump chamber with Myers pump, see note 14. Use an H-20 Dist. Box. Water proof both chambers.
- Contractor to field check invert of outlet at foundation.
- Bench mark is top of foundation, elev. 7.0 (N.G.V.D. 1929).
- APN: 37.4-25-0 for the Town of Bourne.
- Locus is served by town water.
- The plan view is based on site plan by Gary S. Labrie, RLS, William Warwick, & Assoc., North Falmouth.
- The installer to notify engineer and Agent when starting over-dig excavation to show 4 feet of good materials below the clay.
- High ground water is based on high tide elevation @ 9:00 on 9/26/22.
- Use 3-5'x8'x2' P.C.L.C.(H-20) with 4' of double washed 3/4" to 1 1/2" stone all around the chambers with filter fabric on top. The approval letter allows a 1' reduction to groundwater.
- Top of retaining wall, elev. 10.0; install a 40 mil vinyl barrier, top elev. 10, bottom elev. 5.0
- Install a Myers model ME3, 1/3 HP cast iron effluent pump with chain to grade to service pump. Set Off float @ 6", ON float @ 18" and ALARM float @ 26".



SITE PLAN

SCALE: 1" = 30'



LEGEND

- - - 24' PROPOSED CONTOUR
- - - 10' EXISTING CONTOUR
- DRIVEWAY
- FIRM ZONE

DESIGN
SINGLE FAMILY DWELLING W/ 4 BEDROOMS
NO GARBAGE DISPOSAL
DAILY FLOW = 110 x 4 = 440 G.P.D.
SEPTIC TANK VOL. REQ'D.

USE ANORWECO SINGLAIR SESI MODEL 960
- NITROGEN REMOVAL SYSTEM (600 GPD)

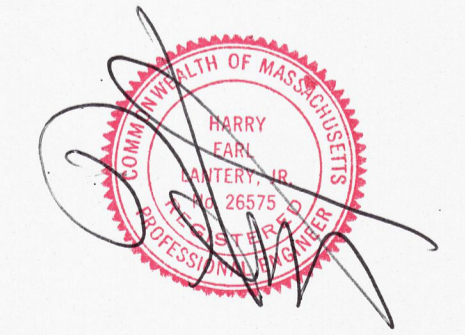
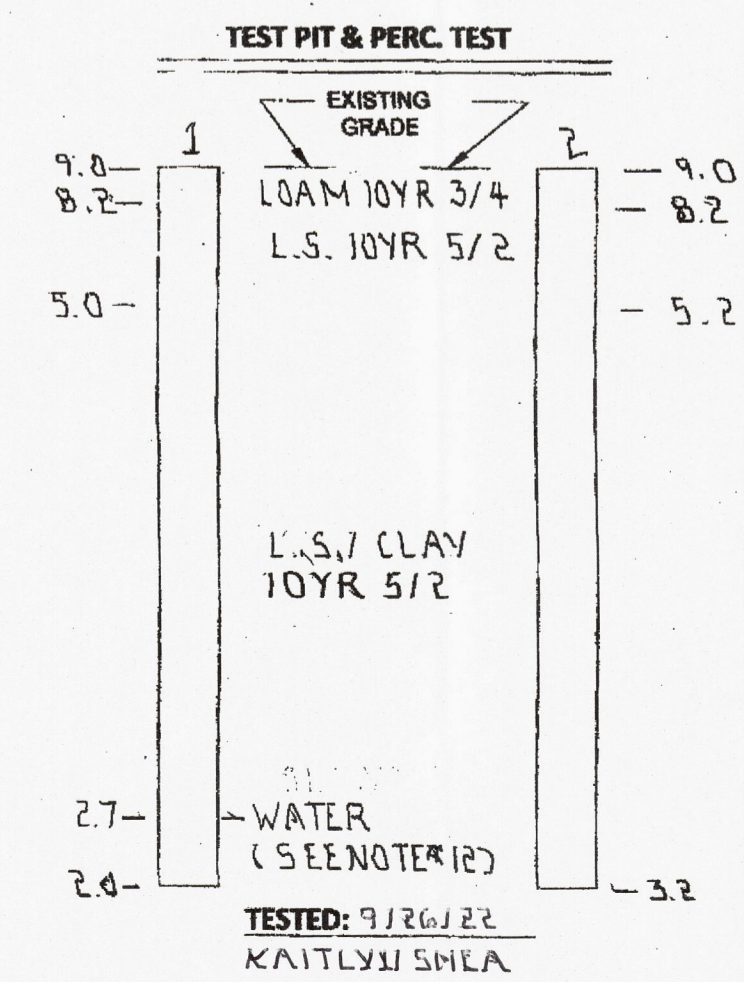
LEACHING TREATMENT (S.A.S.)

USE 3-5'x8'x2' P.C.L.C. + 4' OF DOUBLE WASHED 3/4" TO 1 1/2" STONE ALL AROUND.
EFFECTIVE DEPTH = 2.0'

$$2064 \div 2670.74 = 133$$

$$32 \div 13 \times 0.74 = 308$$

TOTAL CAPACITY = 441 GALS.



SEWAGE SYSTEM DESIGN

FOR:
PETER OHANIAN TRS.
25 NORTH SHORE RD.
WINDHAM NH 03087
ON:
140 WINGS NECK RD.
POCASSET, MA.
A.P.N. - 37.4-25-0

H. EARL LANTERY P.E.
CONSULTING ENGINEER
SANDWICH, MA 02563

DATE: 1/24/23 DWG: 12423

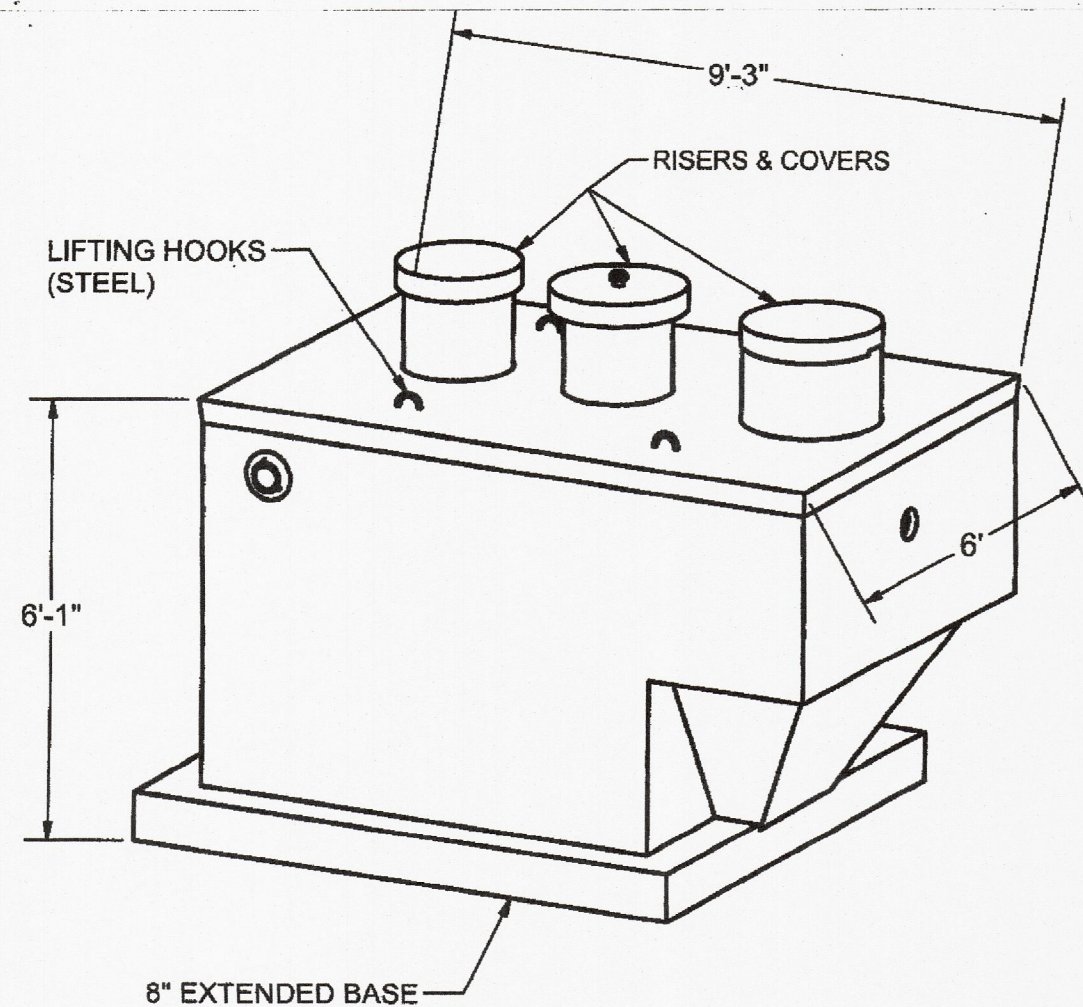
HEALTH AGENT APPROVAL

DATE:

RECEIVED

FEB 23 2023

Bourne Health Department
24 Perry Avenue
Buzzards Bay MA 02532



**SINGLAIR BIO-KINETIC MONO TANK
W/EXTENDED BASE**

500 G.P.D.

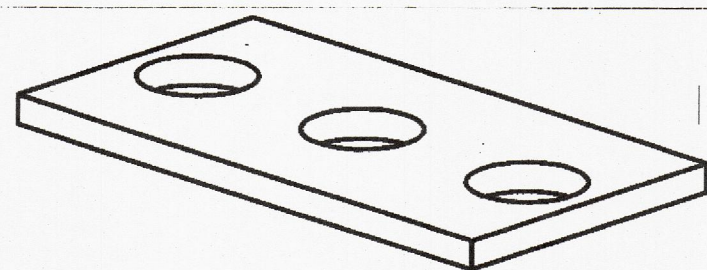
H10

FOR PROCESS INFO
PLEASE CONTACT:

DISTRIBUTOR
SES WASTEWATER
Norton, Ma 02766
(888) 999-1389
www.seswastewater.com

norweco

ITEM# SG500MEB	Wt. 16,300 Lbs	7 -3.1a	Sht 1 of 2
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TBS15	Bouyancy Slab
Size	Dim
A (Lgth)	9'-3"
B (Wdth)	6'-0"
C (Thickness)	
D (dia)	
E	
F	
G	
H	
I	

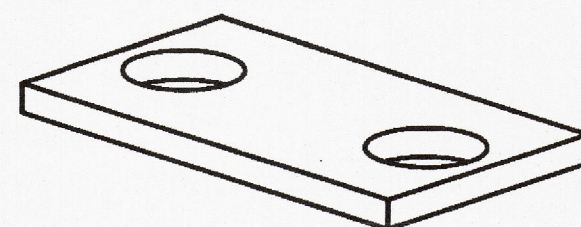
NAME: TANK BOUYANCY SLAB, 1000G Size, CUSTOM ITEM# TS10

Concrete Minimum Strength: 4,000 p.s.i. at 28 days
Steel Reinforcement: ASTM A615, Grade 60
Design Loading: standard units - AASHTO - H10

TOTAL 4,600 Lbs.

CH DATE: 5-5-2020

Ch 19 Pg 2.1 Sht 2 of 2



TBS10	Bouyancy Slab
Size	Dim
A (Lgth)	7'-8"
B (Wdth)	6'-0"
C (Thickness)	
D (dia)	
E	
F	
G	
I	

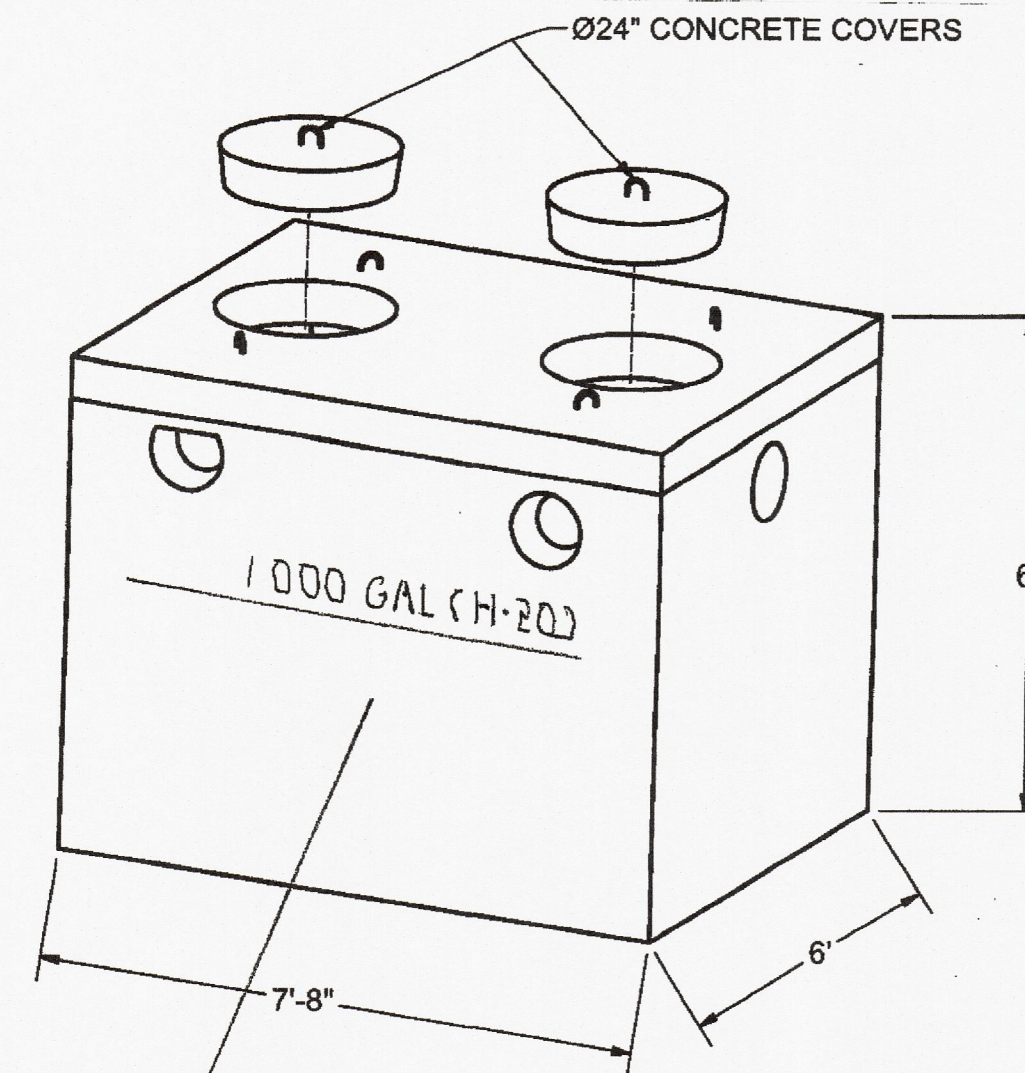
NAME: TANK BOUYANCY SLAB, 1500g Size, CUSTOM ITEM# TS15

Concrete Minimum Strength: 4,000 p.s.i. at 28 days
Steel Reinforcement: ASTM A615, Grade 60
Design Loading: standard units - AASHTO - H10

TOTAL 1,472 Lbs

CH DATE: 5-5-2020

Ch 19 Pg 2.2 Sht 2 of 2

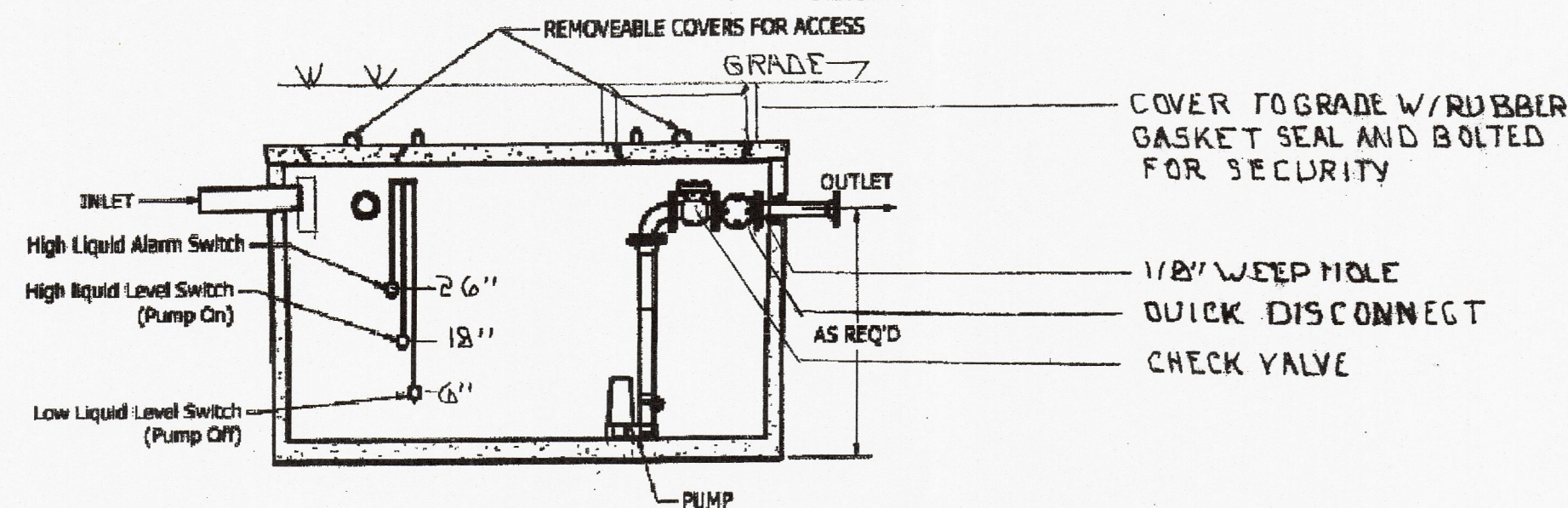


**(WATER PROOF COATING)
PUMP CHAMBER, MONO**

H20

1,000 Gallon

ITEM# PC102M	Wt. 16,500 Lbs	9 -5.1
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PUMPING CALCULATIONS:

Pump on: 6.66' x 5' 1x' x 7.5 gallons/cu. ft. = 249 gals. / cycle

Alarm Storage: 6.66' x 5' x 2.5 x 7.5 gallons/cu. ft. = 624 gallons/24 Hr. capacity

BOUYANCY CALC'S:

water displaced by Singlair tank = 9.3' x 6' x 6' = 335 cu. ft.
335 cu. ft. x 62.4 lbs/cu. Ft. = 20,904 lbs. - 16,300 lbs. = 4,604 lbs. needed
add a 4,604 lb. Concrete (3 hole) bouyancy slab by Acme-Shorey Precast
Water displaced by pump chamber = 8' x 6' x 6' = 288 cu. ft.
288 cu. ft. x 62.4 lbs/cu. ft. = 17,972 lbs. - 16,500 lbs. = 1,472 lbs. needed
add a 1,472 lbs. concrete (2 hole) bouyancy slab by Acme-Shorey Precast

