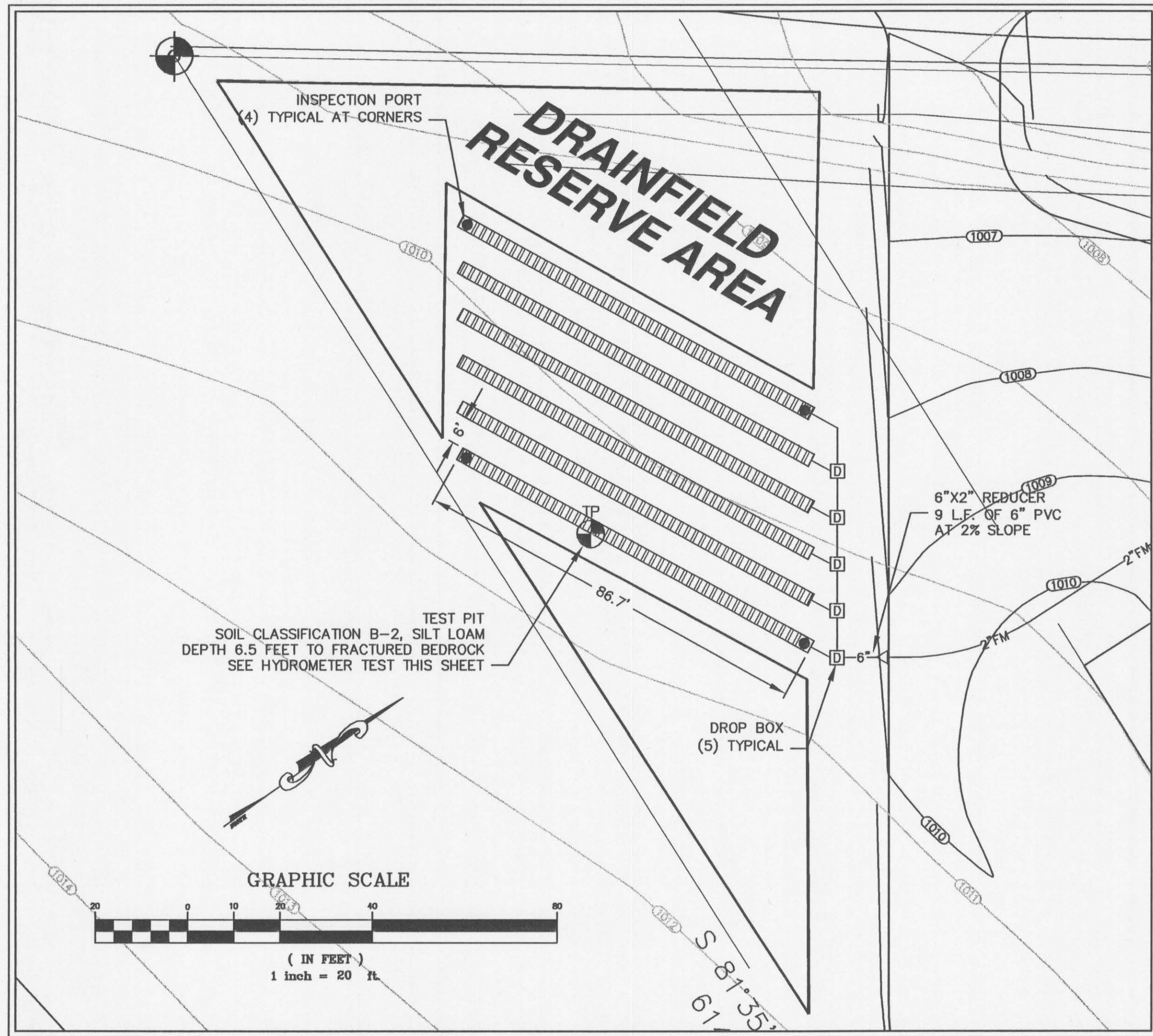


Engineering Details - SHEF40

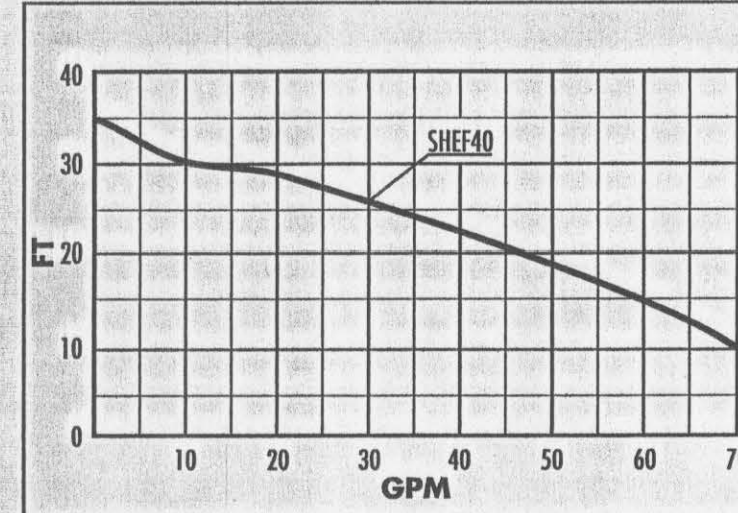
Pump Characteristics

Pump/Model Unit	Submersible
Model Models	SHEF40M1 SHEF40M2
Automatic Models	SHEF40A1 SHEF40A2
Horsepower	4/10
Full Load Amps	12 6.5
Motor Type	Shaded Pole (4 Pole)
R.P.M.	1550
Phase	1Ø
Voltage	115 230
Hertz	60
Temperature	120° F Max. Fluid Temp.
NEMA Design	A
Insulation	Class A
Discharge Size	1 1/2" NPT
Shaft Diameter	3/4"
Weight	28 lbs.
Power Cord	16/3, S17V, 20' std. (30' optional)

Materials of Construction

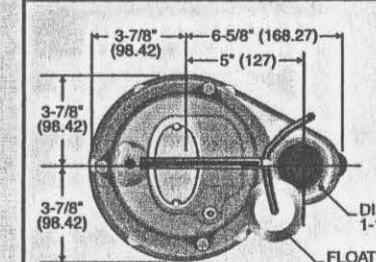
Handle	Stainless Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Anodized Steel Springs: Stainless Steel Bellows: Buna-N
Impeller	Engineered Thermoplastic
Upper Bearing	Bronze Sleeve Bearing
Lower Bearing	Single Row Ball Bearing
Bottom Plate	Polyester Coated Steel
Fasteners	Stainless Steel
Legs	Engineered Thermoplastic

Performance Data

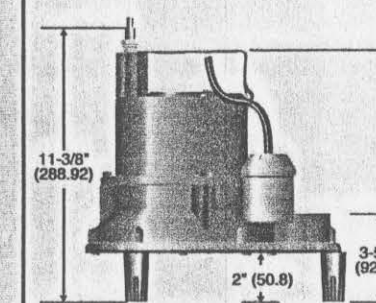


Total Head (feet)	10	14	17	21	25	28	30	35
GPM (US GPM)	70	60	50	40	30	20	10	0
(liters/sec)	4.4	3.8	3.2	2.5	1.9	1.3	.63	0

Dimensional Data



- All dimensions in inches. (Metric for international use).
- Component dimensions may vary $\pm 1/8$ inch.
- Not for construction purpose unless certified.
- Dimensions and weights are approximate.
- We reserve the right to make revisions to our product and their specifications without notice.

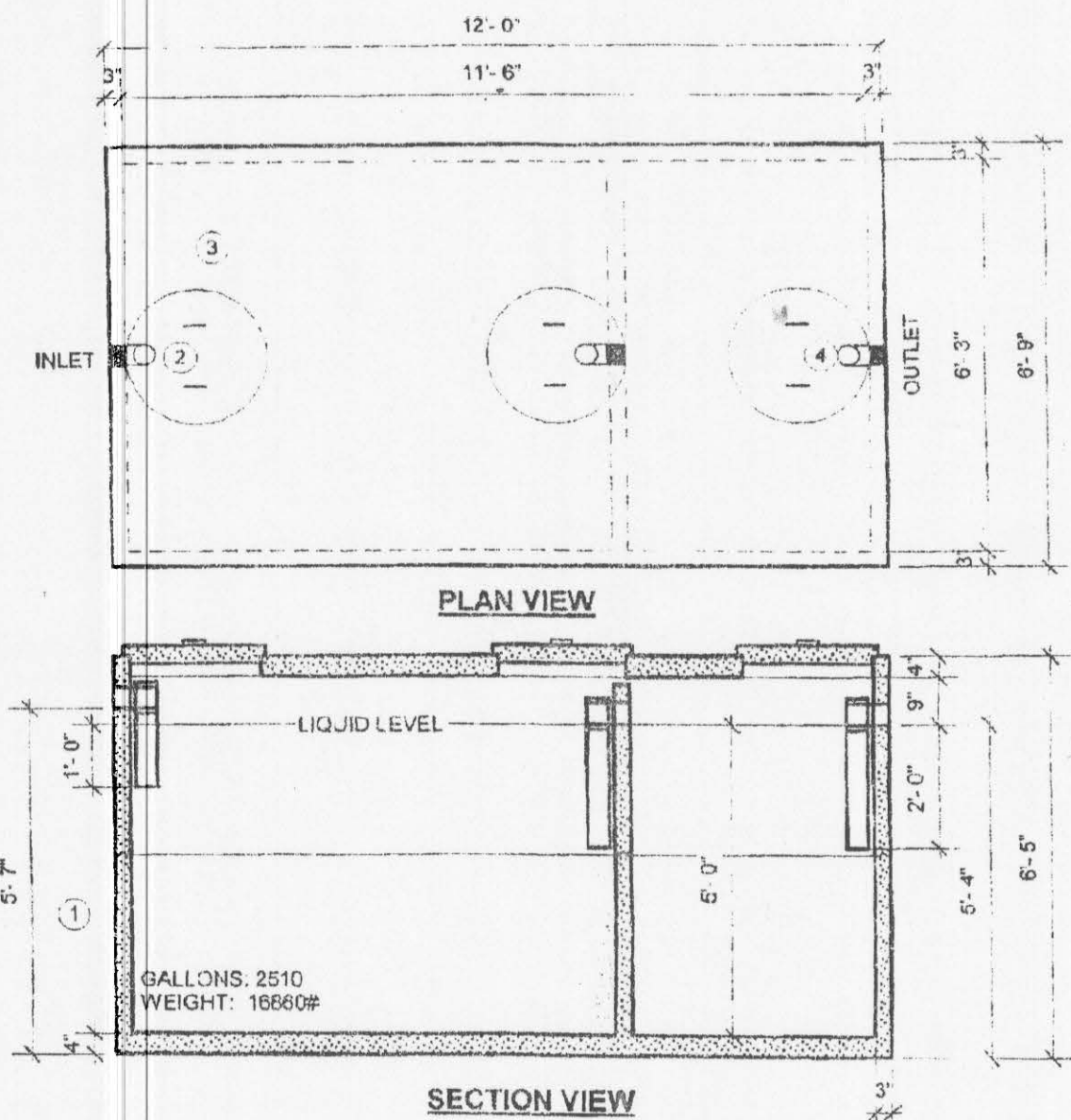


© 1998 Hydromatic® Pumps, Ashland, Ohio. All Rights Reserved.

— Your Authorized Local Distributor —

HYDROMATIC®
PENTAIR PUMP GROUP

1840 Bony Road Ashland, Ohio 44805 Tel: 419-289-3042 Fax: 419-281-4087
Web Site: www.pentairpump.com
SALES OFFICES IN ALL MAJOR CITIES AND COUNTRIES
Refer to "Pumps" in the yellow pages of your phone directory for your local distributor
Invent: W-02-6680 999 E&A



- NOTES:**
- 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL ASTM C880
 - 4" PVC TEE & BAFFLE AT INLET
 - SIDE INLET/OUTLET CONNECTION BY SPECIAL ORDER
 - 4" PVC TEE & BAFFLE AT OUTLET
 - WE STRONGLY RECOMMEND A FILTER AT THE OUTLET OF ALL TANKS
 - 6X6-10/10 MESH THROUGHTOUT PLUS #3 REBAR @ 12" O.C. IN TOP

PRODUCT NAME
2500 GALLON SEPTIC TANK
DOUBLE COMPARTMENT

PRODUCT NUMBER
1641

Wilbert. PRECAST, INC.
2215 E BROOKLYN, SPOKANE, WA 99217
Ph: (509) 325-4573 Fax: (509) 325-5098
Toll Free: 1-800-888-4573
SPOKANE - WENATCHEE - LEWISTON - YAKIMA
www.wilbertprecast.com



4025 EAGLE COURT
LEWISTON, WA 99031
FAX: (509) 740-1032
(208) 791-8005

NACLINE
ENGINEERING & DRAFTING
"an affordable alternative"

SEPTIC DESIGN DATA

SEPTIC TANK

- NUMBER OF BUILDINGS = 11
- NUMBER OF PEOPLE PER BUILDING = 4
- TOTAL NUMBER OF PEOPLE = 44
- LOADING PER PERSON = 25 GAL/DAY
- AVERAGE DAILY LOADING (44*25) = 1,100 GAL/DAY
- SEPTIC TANK SIZING IS 2*A.D.D. = 2,200 GAL
- SEPTIC TANK BY WILBERT PRECAST (1641) = 2,500 GALLON

DRAINFIELD

- SOIL CLASSIFICATION IS B2, SILT LOAM
- LOADING RATE FOR B2 = 0.45 GAL/DAY/SF
- USE 34" WIDE STANDARD QUICK 4 INFILTRATOR CHAMBER
- ABSORPTION LENGTH 34" WIDE INFILTRATOR = 862 L.F.
- 40% REDUCTION FOR INFILTRATORS, REDUCED LENGTH = 517 L.F.
- SIX RUNS OF 86.6 FT LONG BE INSTALLED = 520 L.F.

TANK EFFLUENT PUMP

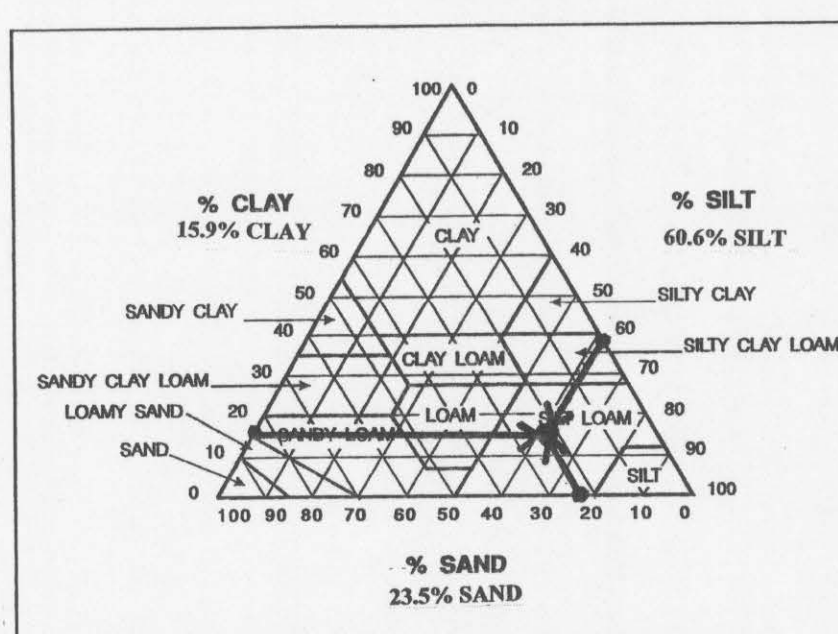
- FORCE MAIN SIZE = 2"
- LENGTH FORCE MAIN = 660 FT
- ELEVATION HEAD = 18.5 FT
- MINIMUM EFFLUENT VELOCITY = 2 FT/SEC
- MAXIMUM LINE VELOCITY = 7 FT/SEC
- PUMP IS HYDROMATIC SHEF40
- OPERATION POINT IS 23 GPM AT 28 T.D.H.
- DAILY EFFLUENT = 1,100 GAL/DAY
- PUMP CYCLE TWICE A DAY = 550 GAL/CYCLE
- RUN TIME PER CYCLE = 20 MINUTES

EFFLUENT CHAMBER

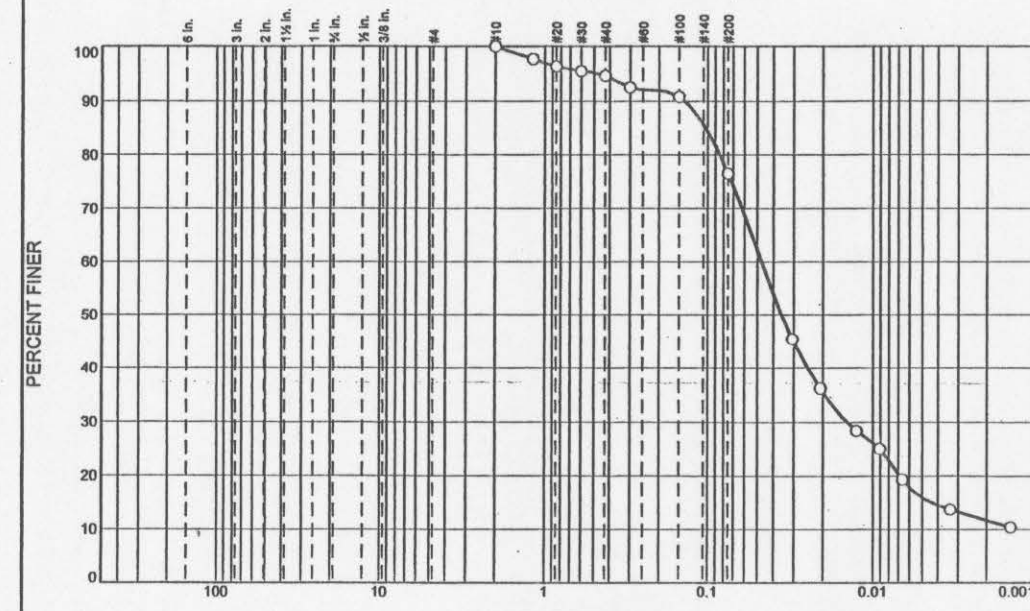
- EFFLUENT CHAMBER 1000 GAL, WILBERT PRECAST (1604M)

D.O.H. REQUIREMENTS

- CONTACT D.O.H. (208) 799-0349 FOR SITE EVALUATION.
- \$100 SITE EVALUATION FEE, CONTACT 24 HOURS PRIOR TO SITE EVALUATION.
- \$350 PERMIT APPLICATION WITH DOH HAS TO BE FILED.
- LENGTH OF CHAMBERS MAY NEED TO BE LENGTHENED DUE TO SITE EVALUATION, AND FIELD CONDITIONS ENCOUNTERED BY CONTRACTOR



Particle Size Distribution Report



GRAIN SIZE - mm		PERCENT FINER	
Grain Size (mm)	Percent Finer (%)	Grain Size (mm)	Percent Finer (%)
0.075	100.0	0.075	100.0
0.15	97.7	0.15	97.7
0.3	96.4	0.3	96.4
0.6	95.5	0.6	95.5
1.2	94.7	1.2	94.7
2.5	92.5	2.5	92.5
5.0	90.8	5.0	90.8
10.0	76.5	10.0	76.5

Grain Size (mm)	Percent Finer (%)	Grain Size (mm)	Percent Finer (%)
0.075	100.0	0.075	100.0
0.15	97.7	0.15	97.7
0.3	96.4	0.3	96.4
0.6	95.5	0.6	95.5
1.2	94.7	1.2	94.7
2.5	92.5	2.5	92.5
5.0	90.8	5.0	90.8
10.0	76.5	10.0	76.5

Grain Size (mm)	Percent Finer (%)	Grain Size (mm)	Percent Finer (%)
0.075	100.0	0.075	100.0
0.15	97.7	0.15	97.7
0.3	96.4	0.3	96.4
0.6	95.5	0.6	95.5
1.2	94.7	1.2	94.7
2.5	92.5	2.5	92.5
5.0	90.8	5.0	90.8
10.0	76.5	10.0	76.5

Quick4 Standard Chamber

SECTION VIEW

SIDE VIEW

MultiPort End Cap

FRONT VIEW

SIDE VIEW

TOP VIEW

Quick4 Standard Chamber Nominal Specifications

Size (W x L x H) 34" x 52" x 12"

Effective Length 48"

Invert Height 8"

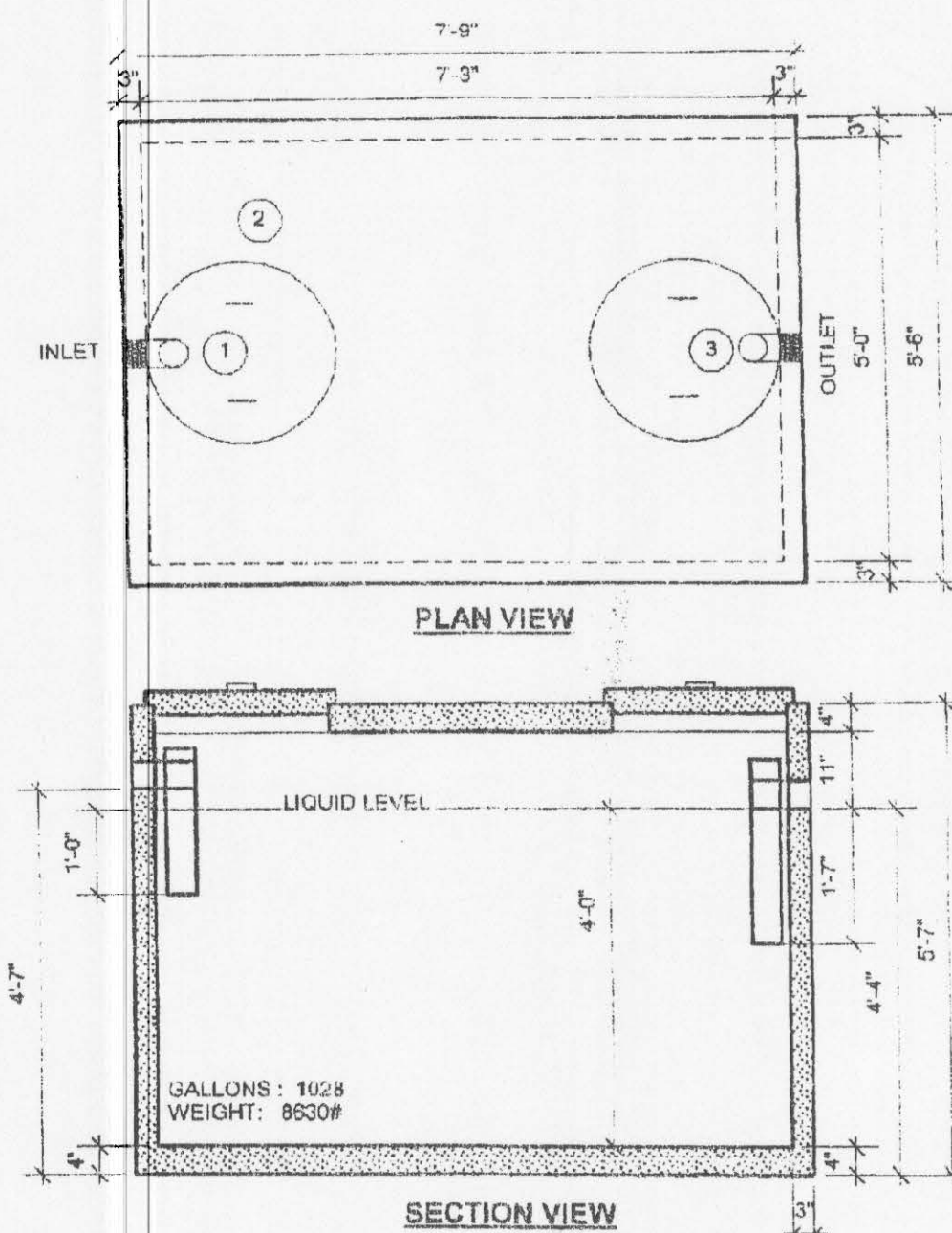
MultiPort End Cap Nominal Specifications

Size (W x L x H) 34" x 16" x 12"

Invert Height 8" or 1.25"

INFILTRATOR SYSTEMS, INC.
Environmental Onsite Wastewater Solutions®

6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001
800-221-4436
www.infiltratorsystems.com



- NOTES:**
- 4" PVC TEE & BAFFLE AT INLET
 - SIDE INLET/OUTLET CONNECTION BY SPECIAL ORDER
 - 4" PVC TEE & BAFFLE AT OUTLET
 - WE STRONGLY RECOMMEND A FILTER AT THE OUTLET OF ALL TANKS
 - 6 X 6 10/10 MESH IN BASE
 - 64 BAR 12" O.C. IN TOP

PRODUCT NAME
1000 GALLON SEPTIC TANK MONOLITHIC
SINGLE COMPARTMENT

PRODUCT NUMBER
1604M

Wilbert. PRECAST, INC.
2215 E BROOKLYN, SPOKANE, WA 99217
Ph: (509) 325-4573 Fax: (509) 325-5098
Toll Free: 1-800-888-4573
SPOKANE - WENATCHEE - LEWISTON - YAKIMA
www.wilbertprecast.com

HILLCREST AIRCRAFT
HANGER PROJECT 2007

DESIGNED BY: CRF
SCALE: 1" = 20'
DATE: 2/5/07
PROJECT NO.: 00071
SHEET C6 OF 11