

Contact: John Craig
206-251-5692

KITITITAS COUNTY PUBLIC HEALTH DEPARTMENT
Environmental Health Division
411 N. Ruby Street Suite 3
Ellensburg, WA 98926 (509) 962-7698

ON SITE SEWAGE INSTALLATION PERMIT

Parcel # 21-14-35050-0003

Type of Permit: New Repair Renewal Privy Type of System: Gravity Pressure Alternative

Description gravelless chambers

First Name John Last Name Craig

Subdivision Sapphire Skies / Craig Estates Division Block Lot 3C

Site Address Pine Loch Sun Parcel Size 10.26

No of Bedrooms 4 Other

Square Feet of Drainfield 1476 Septic Tank Capacity 1500 Pump Chamber Capacit 1000 Application Rate .2

State Licensed Designer/PE Ron Dalle

Installation Contractor

Issued By Philip Martinez

Date Issued 2/15/2005

This permit expires one year from the date of issuance. The above specifications are minimum. Changes in specifications shall be approved prior to installation. Seventy-two hours (3 business days) advance notice is required for inspections.

Inspected By

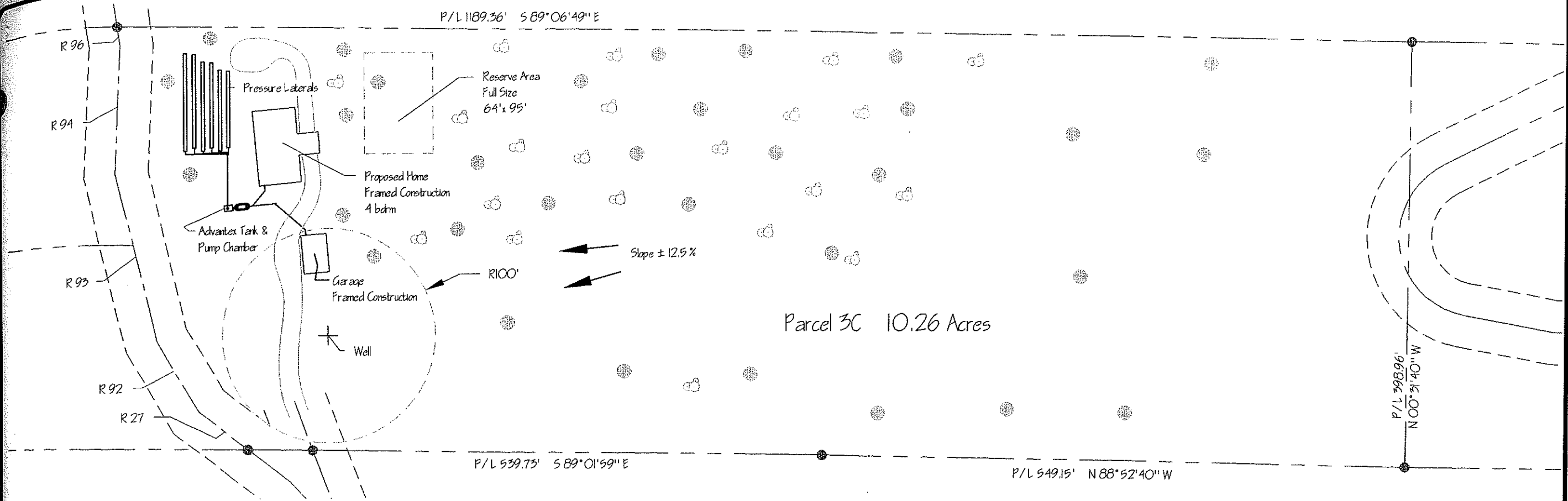
Date Approved

Comments

To Protect and Promote the Health and the Environment of the People of Kittitas County

PUBLIC HEALTH
ALWAYS WORKING FOR A SAFER AND
HEALTHIER KITITITAS COUNTY

21-14-35050-0003



General Notes:

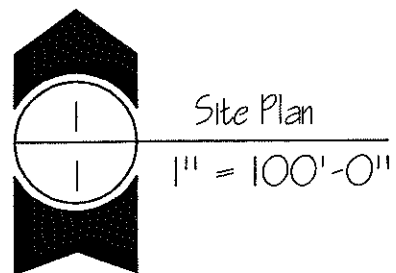
- All work shall be in accordance with uniform plumbing code; WA. State Dept. of Health Chapter 246-272 WAC On-Site Sewage Systems JAN.1,95 and the National Electrical Code
- System designed in Accordance With:
 - Kittitas County Health Dept. Site Evaluation Report
 - DOH Guidelines For Pressure Systems; April 1999
- All Construction Inspections by Kittitas County Health Department.

Legend:

- | | |
|----------------------------|-----------------------------|
| E.G. ~ Existing Grade | TH ~ Soil Log Test Holes |
| F.G. ~ Finish Grade | E.L. ~ Elevation |
| TBM ~ Temporary Bench Mark | D ~ Drains |
| P/L ~ Property Line | E ~ Underground Power |
| 98.3 ~ Existing Elevation | Tel ~ Underground Telephone |

LINE	DIRECTION	DISTANCE
R 96	N08°11'32"W	17.91'
R 94	N02°30'26"E	121.61'
R 93	N13°42'35"W	160.39'
R 92	N50°37'05"W	77.45'
R 27	N52°28'51"W	58.63'

Assessors Parcel #
21 - 14 - 35000 - 0009



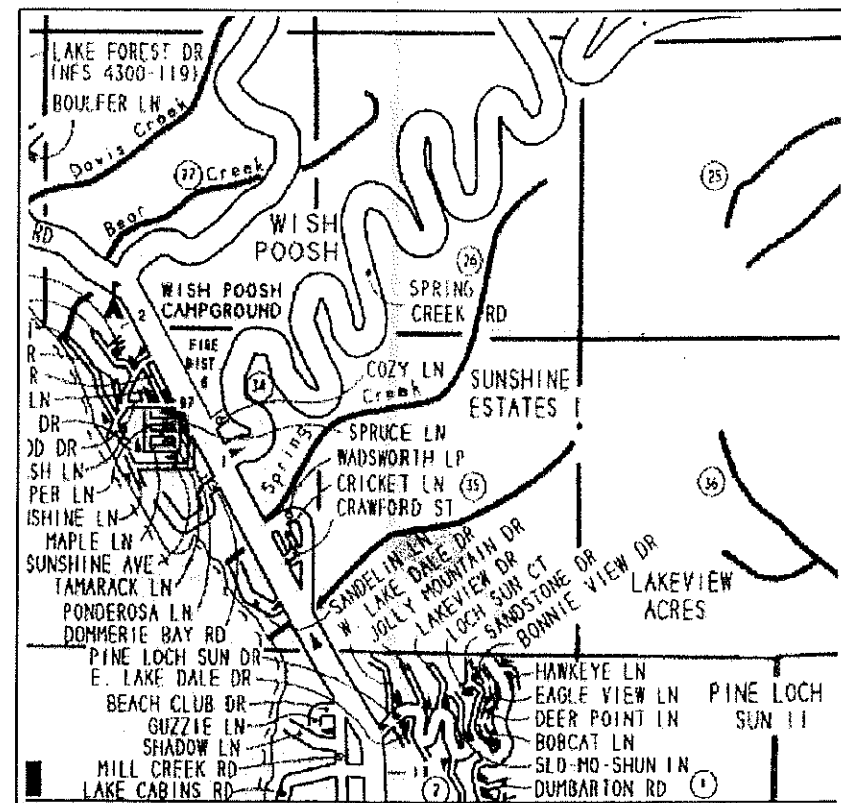
Craig Estates

Part of the South 1/2 of Section 35
T.21N, R.14E., W.M.
Kittitas County, State of Washington

Survey References: Book 29 of
Surveys, Page 50, Records of
Kittitas County, State of
Washington



Vicinity Map NTS



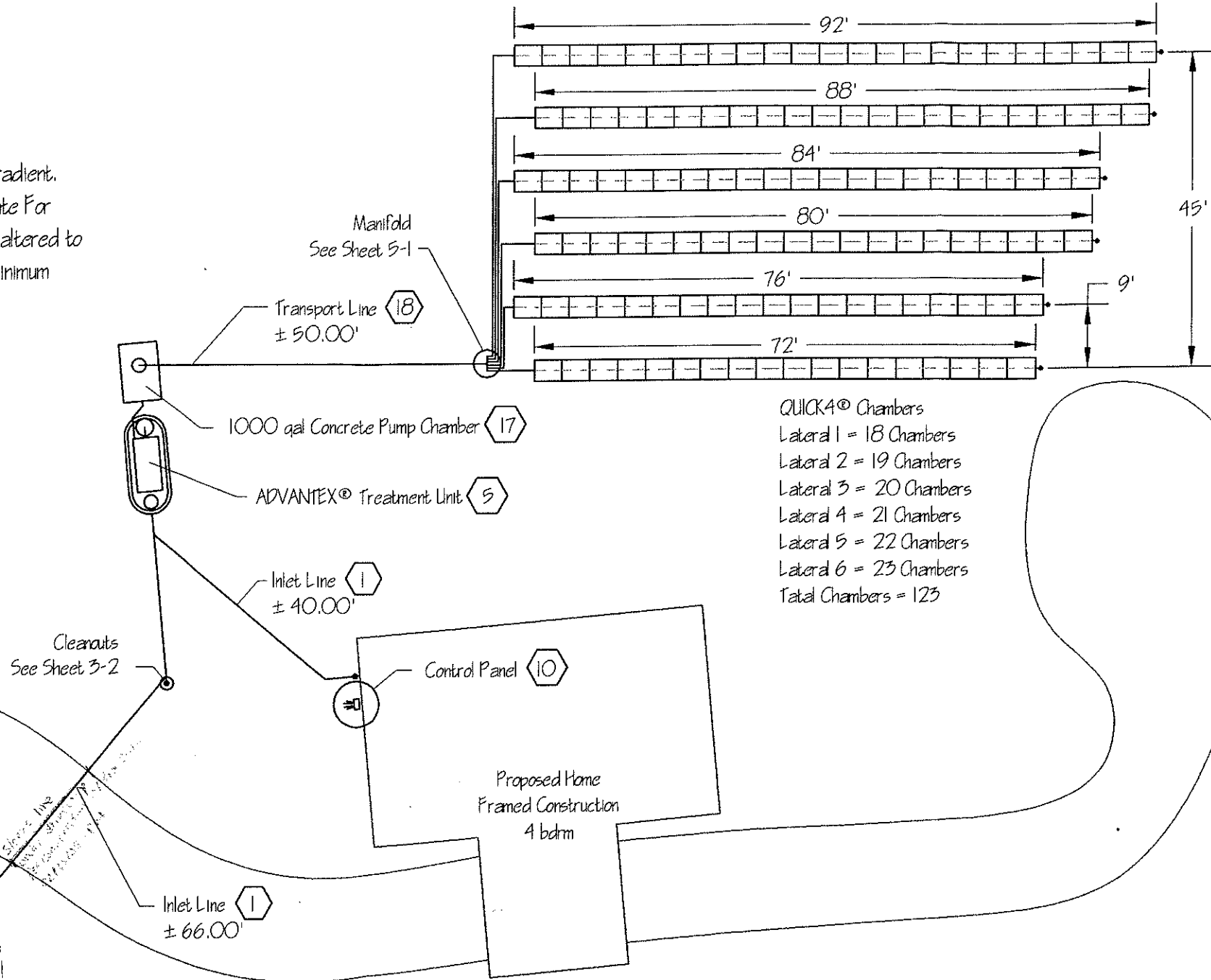
AMERIA ENGINEERING
504 Columbia Ave.
Cle Elum, WA. 98922 (509) 674-5125

John Craig
21012-109th Ave. S.E.
Snohomish, WA, 98296

0/5 Sewer System
02/12/05
1 of 7

Note:

Laterals Are Offset 3' So Orifices Are Staggered Down Gradient. Each Lateral is 4.00' (one chamber) Longer To Compensate For Drain Down Between Pump Cycles. Trench Alignment may be altered to match the natural contour of the slope and to avoid trees. Minimum Distance Between Laterals is 9' on Center.



- QUICK4® Chambers
 Lateral 1 = 18 Chambers
 Lateral 2 = 19 Chambers
 Lateral 3 = 20 Chambers
 Lateral 4 = 21 Chambers
 Lateral 5 = 22 Chambers
 Lateral 6 = 23 Chambers
 Total Chambers = 123

Note:

During Construction Avoid Soil Compaction of Reserve Area By Machinery

1 Septic System Plan
 2 1" = 20'-0"

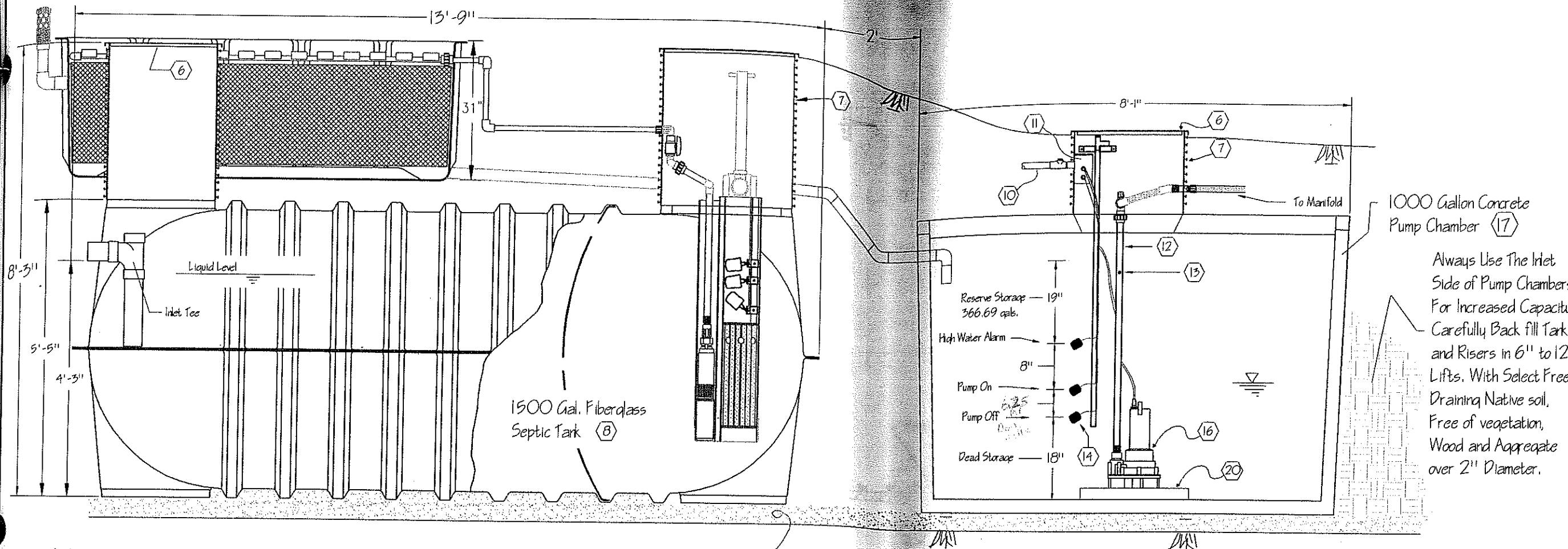
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O/S Sewer System

02/12/05

2 of 7



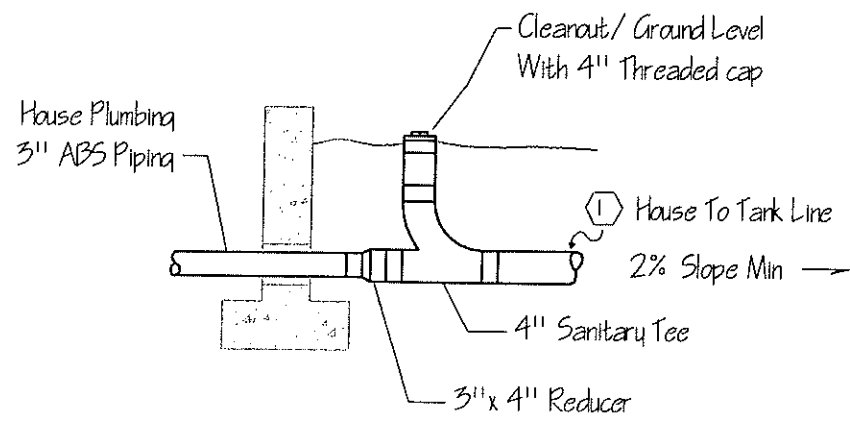
1000 Gallon Concrete Pump Chamber (17)

Always Use The Inlet Side of Pump Chambers For Increased Capacity. Carefully Back fill Tarks and Risers in 6" to 12" Lifts. With Select Free Draining Native soil, Free of vegetation, Wood and Aggregate over 2" Diameter.

Note:

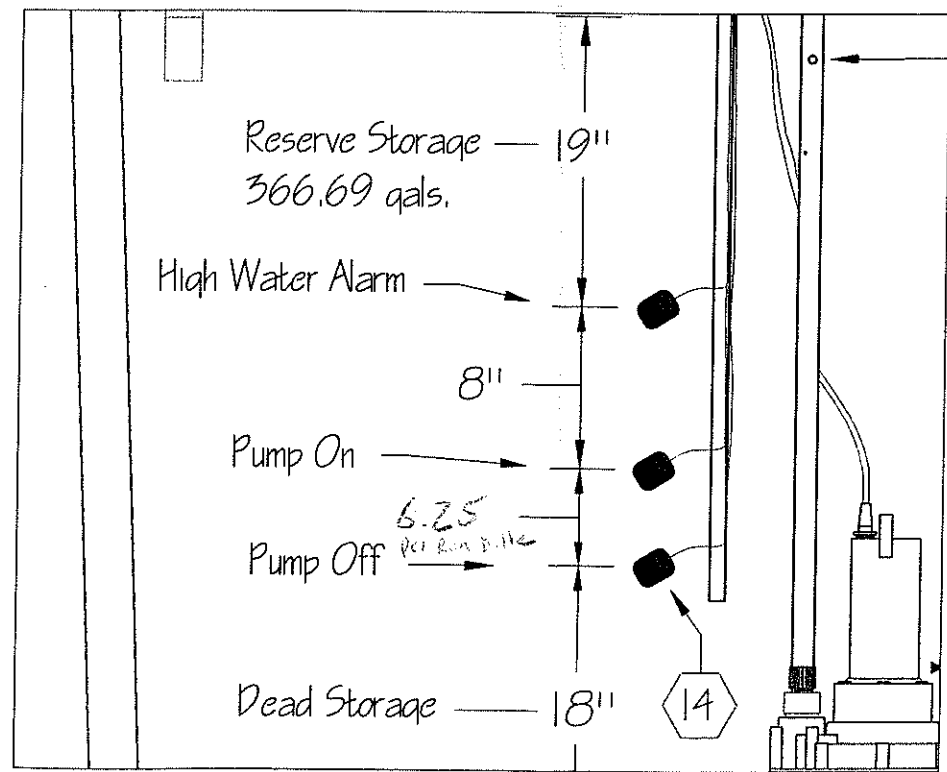
Advantex Unit & Tank Is Manufactured by Orenco Systems, Inc. Pump Chamber Is Manufactured by M-1 Tanks, Moses Lake, WA. If Other Approved Manufactures Tanks are Used Float Settings Must be Recalculated

4" of Sand or Pea Gravel for Tank Bedding and Leveling



2 Foundation Detail (Typical)
3 Not to Scale

1 Tank Section
3 $\frac{1}{2}'' = 1'-0''$



3 Exploded view (float detail)
3 $1'' = 1'-0''$

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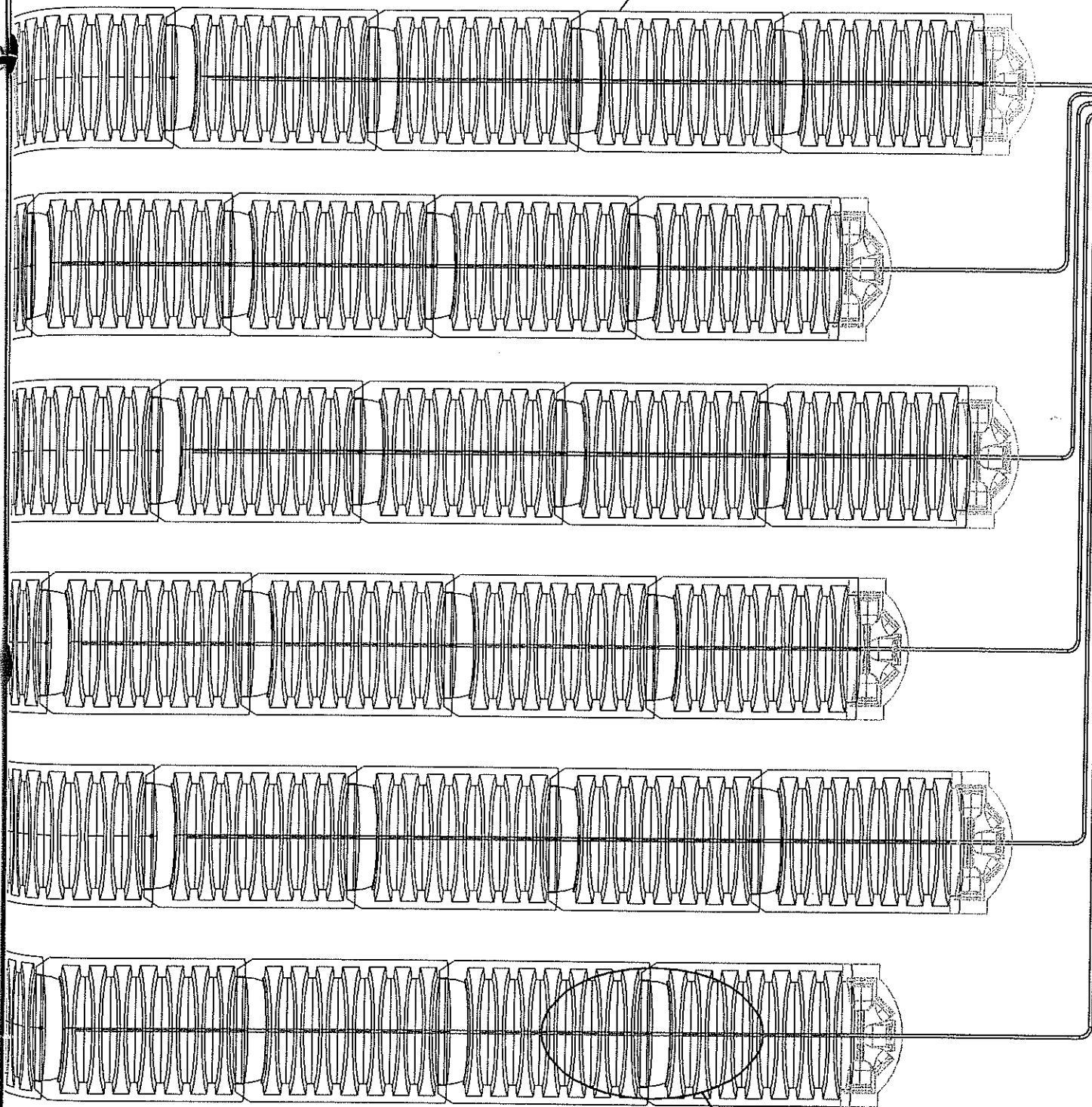
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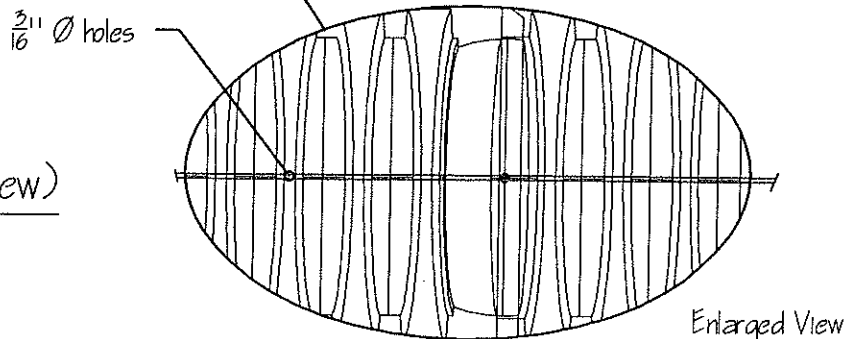
02/12/05

3 of 7

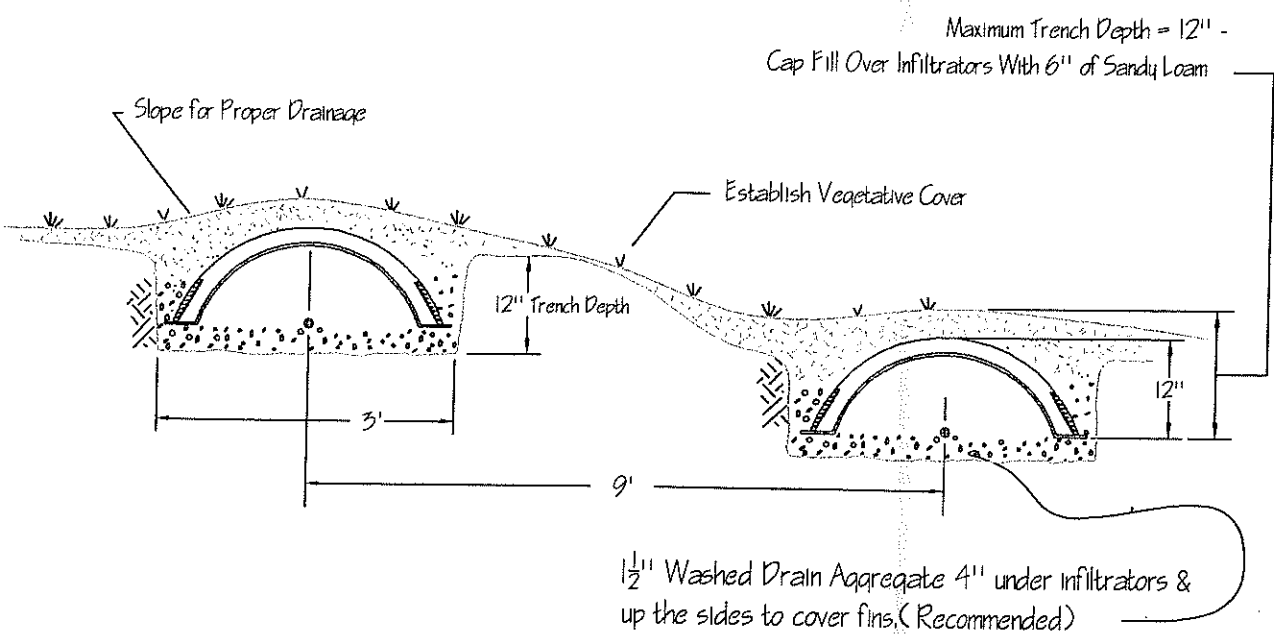
QUICK4 Infiltrator Chambers (25)



1
4
Chambers (Plan View)
not to scale



Enlarged View



2
4
Chamber Section (Showing 2 of 6)
not to scale

4

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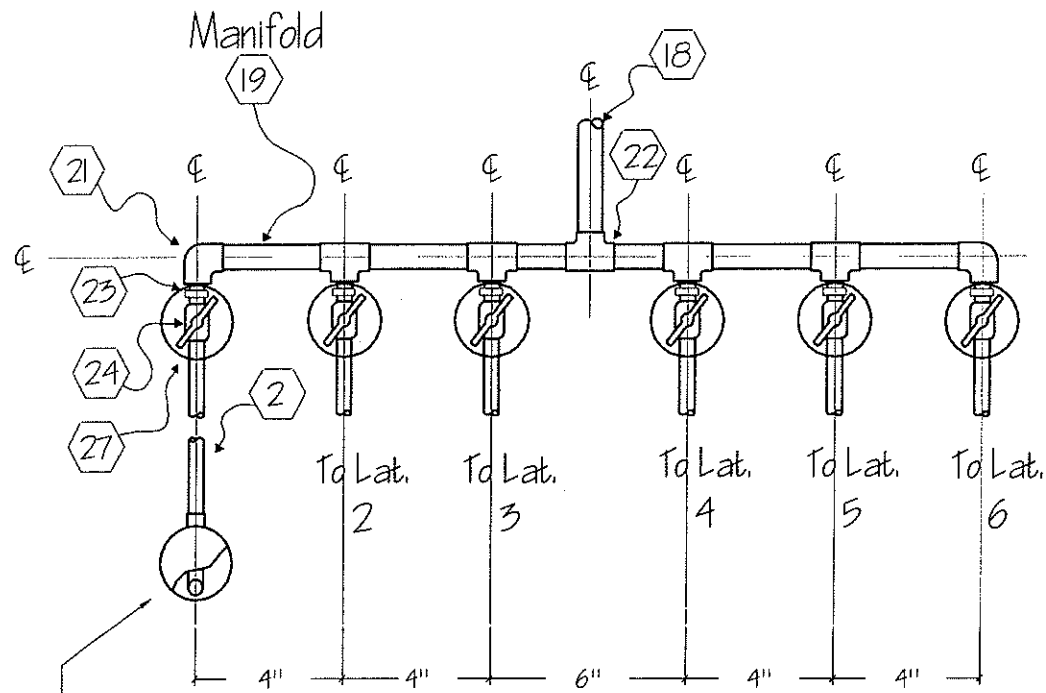
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01/5 Sewer System

02/12/05

4 of 7



Inspection/ Cleanout Port

See $\frac{2}{5}$

$\frac{1}{5}$ Manifold Detail
not to scale

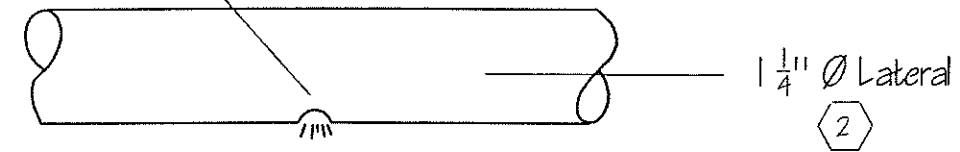
Note:

A Septic Tank Riser or Irrigation Control Box With Locking Lid May Be Used To Cover The Manifold Assembly. Cover Manifold With Sawdust or Peatmoss

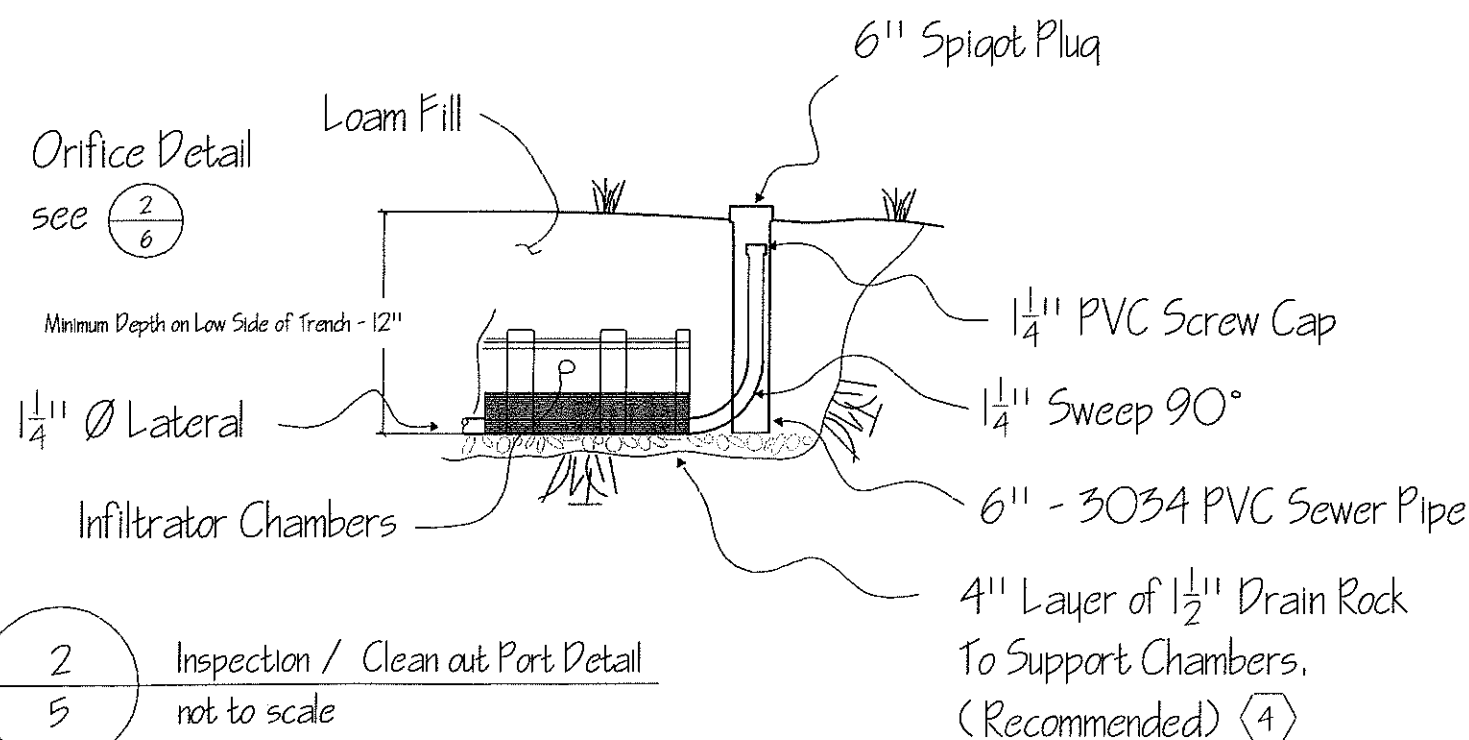
All Orifices $3/16'' \text{ } \varnothing$
All Orifices per Lateral at 12 O'clock. One at 6 O'clock at the Beginning and End of Each Lateral.

Note:

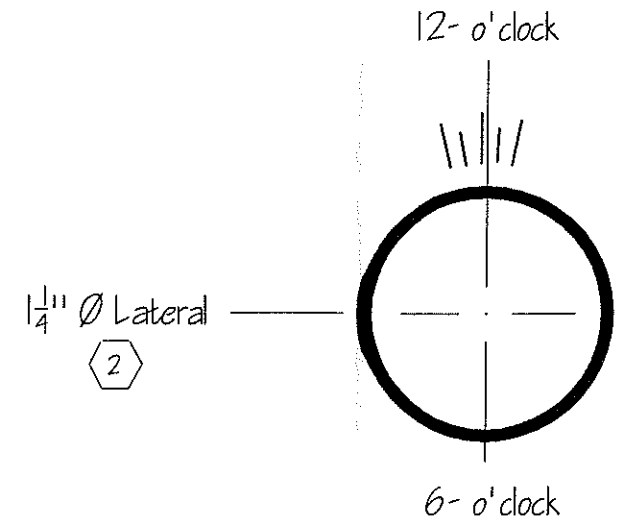
Proper technique and practice should be used in drilling the orifices. This includes using proper drill sizes, sharp bits and drill stabilizing tools to prevent wobble and to drill the orifices perpendicular to the pipe. Proper cleaning of the pipe and careful deburring of the orifices.



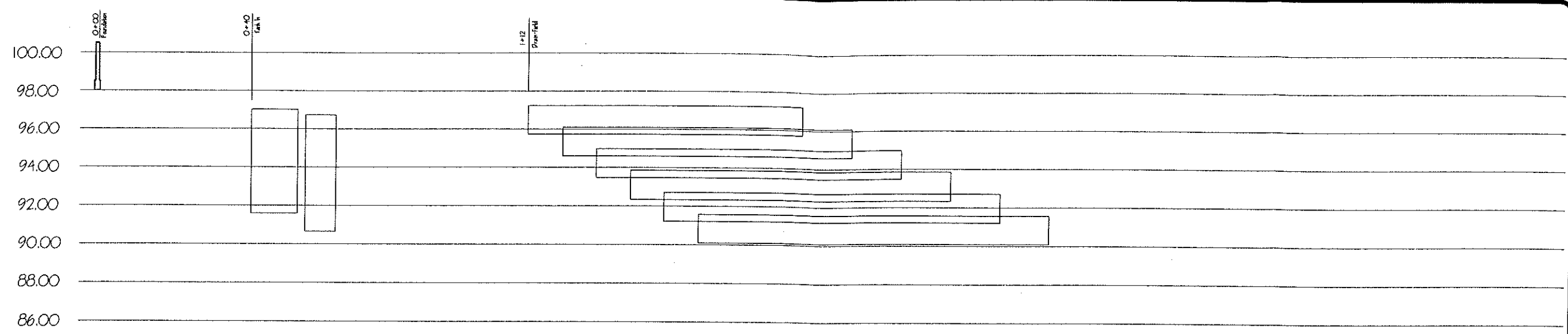
$\frac{3}{5}$ Orifice Detail
not to scale



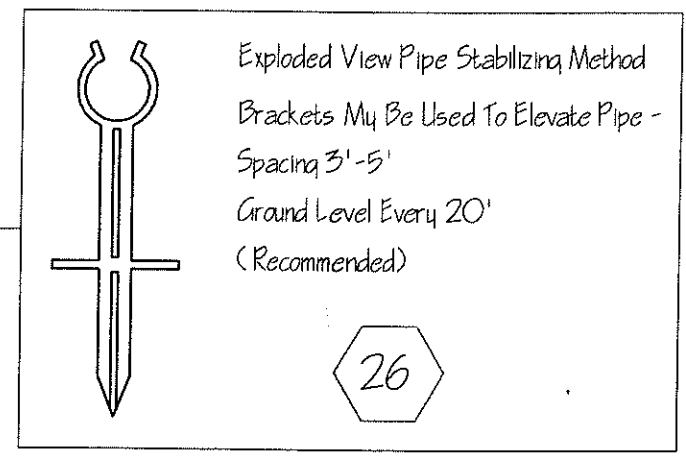
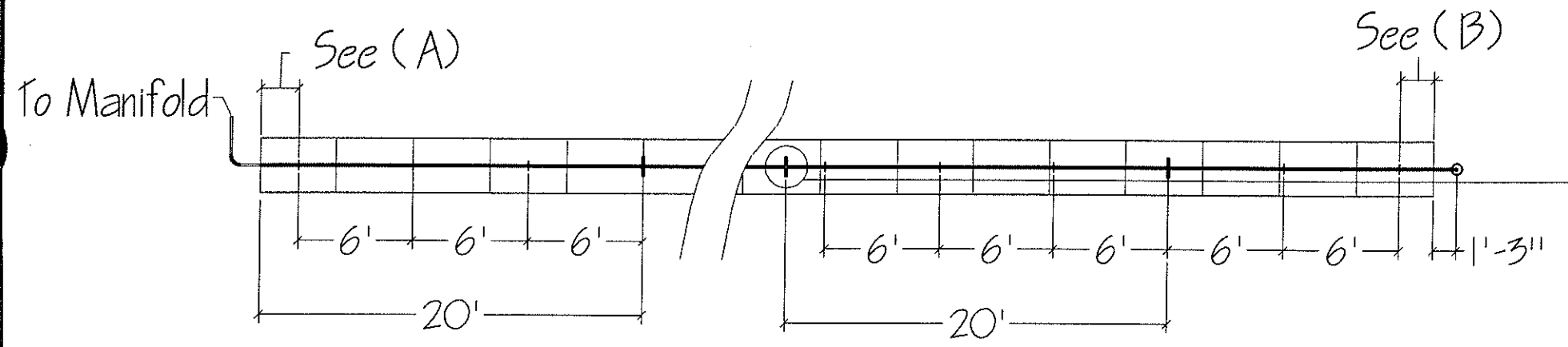
$\frac{2}{5}$ Inspection / Clean out Port Detail
not to scale



$\frac{4}{5}$ Orifice Section
not to scale










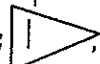



1 Profile
 6
 1" = 30'-0" H
 1" = 6'-0" V












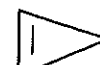

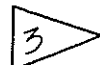
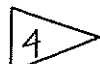


Location	Distance (A)	Distance (B)	# / Chambers	Length	Orifice Spacing	Orifice Ø	# / Orifices
Lateral #1	36"	36"	18	72'	6'-0"	$\frac{3}{16}$ "	12
Lateral #2	24"	24"	19	76'	6'-0"	$\frac{3}{16}$ "	13
Lateral #3	12"	12"	20	80'	6'-0"	$\frac{3}{16}$ "	14
Lateral #4	36"	36"	21	84'	6'-0"	$\frac{3}{16}$ "	14
Lateral #5	24"	24"	22	88'	6'-0"	$\frac{3}{16}$ "	15
Lateral #6	12"	12"	23	92'	6'-0"	$\frac{3}{16}$ "	16
			123				84

2 Orifice Plan
 6
 $\frac{1}{8}$ " = 1'-0"

Construction Notes:-

- 1 House Sewer pipe shall be 4" Ø, 3034 PVC or 4" ABS Sewer pipe tightline & Fittings. Maintain 2% grade
- 2 1 1/4" Ø Sch 40 PVC Lateral Pipe
- 3 Geotextile Fabric, Mirafi 140ns, Grab 90lb. Water flow rate 140 gpm/ sf or approved equivalent.
- 4 Washed Drain Rock (Round not Crushed) 3/8" to 2 1/2" Ø Amount Passing #200 Sieve Less than 0.5%.
- 5 ADVANTEX® Treatment Unit 
- 6 24" Ø Fiberglass Lid w/ ss bolts and urethane gasket. OSI-FL 236 
- 7 24" Ø Ribbed PVC Riser, W/ bolt catches for lid. OSI-RR24-12, use cast in place tank adapter or grooved tank adapter;  
- 8 1500 Gal. Fiberglass Septic Tank,  or from other DOH approved concrete tank supplier.
- ~~9 Effluent Filter w/ 1/16" Mesh Cartridge, Boitube model FTP W04 44-36;  ~~
- 10 Electrical Conduit Routed 18" Below Grade to Power Source. Provide 3-Branch Circuits From Electrical Panel. One Circuit for Each Pump, and a Separate Control Circuit. Use OSI Model VCOM-AXB2 PT Alarm & Control Panel;  . Mount Alarm on South side of Home as Shown.
- 11 Splice Box, w/ 4 Cord Grips & 1 Outlet; Model OSI-SB4;  
- 12 Orenco Discharge Assembly (HV200-DB)
- 13 3/16" Ø Orifice at side of Pipe For Transport Pipe Vent & drain after shut down. Locate Above Effluent Level to Prevent Anti-Siphon.

- 14 Recirc. side. 3-Mercury "A" Pump Control Switches for High Water Alarm (yellow) Tag-Y, Pump On & Off (Green) Tag-G and Redundant Off (White) Tag-W.   Discharge Side. 3-Mercury "A" Pump Control Switches for High Water Alarm (yellow) Tag-Y, Pump On (blue) Tag-B and Pump Off (red) Tag-R.  
- 16 Orenco PEF75, 3/4 hp; Gould 3/4 hp Effluent Pump, Model #WEO712H; Myers ME-75; Series Design Point at 52.4 gpm @ 30.7 ft. THD;   
- 17 1000 Gallon Concrete Pump Chamber, , or from Another Approved Supplier.
- 18 2" Ø Sch-40 PVC Transport Pipe
- 19 2.0" Ø Sch-40 PVC Manifold Pipe
- 20 2" Concrete Pump Support (factory installed)
- 21 2.0" Ø SCH-40 PVC 90° Bend
- 22 2.0" Ø SCH-40 PVC Tee
- 23 2" x 1 1/4" Bushing (PVC)
- 24 1 1/4" Ø PVC Flow Control Valves
- 25 Quick4 Infiltrator Chambers; 
- 26 Pipe Stabilizing Brackets, Mfg. by Infiltrator® Inc.; 
- 27 6" Irrigation Control Box; 
-  Available From HD Failer, Yakima, WA. 1-509-248-8400
-  Orenco Systems, Inc. Sutherlin OR. 1-800-348-9843
-  United Pipe & Supply; Yakima, WA. 1-800-246-9046
-  M-1 Tanks; Moses Lake, WA. 1-509-766-2914

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