

PUB. SEWER STATUS VERIFIED BY _____

ISSUE DATE: 8/8/08

PERMIT

P 529 519

APPROVAL DATE: 9/24/08

A UPGRADE

Tax ID # 05-355435

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

South Carroll Backhoe IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Road, Westminster PHONE NUMBER: 410-875-4197

SUBDIVISION: Bruns Property LOT NUMBER: 3 (existing house)

ADDRESS: 8229 ~~8100~~ Hunterbrooke Lane PROPERTY OWNER: Douglas Bruns

SEPTIC TANK CAPACITY (GALLONS): _____ Existing 1250 Gallon Tank to be used

PUMP CHAMBER CAPACITY (GALLONS): 1500 Plastic Tank OK

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: _____

LINEAR FEET OF TRENCH REQUIRED: 140

*3.5 - 6.5'
2' wide*

TRENCHES:	Trench to be ^{2.0} 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	1 Set Distribution Box at high point of septic easement. 2 Install 2X50' and 1X40' trenches on contour. 3 Properly abandon 2 existing dry wells on slope below septic tank.
ADDITIONAL NOTES:	1 Install baffle filter on outlet of existing septic tank (or inlet of pump tank). 2 Stake easement corners. 3 Call for layout inspection. 4 Stone tickets must be available for inspections. 5 Call in inspection when setting pump tank.

PLANS APPROVED: Robert Bricker DATE: 03/20/2008

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL OR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE

~~See~~ See Seperate Sheet
for As-Built

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3.5'	6.5'
NUMBER OF TRENCHES		4
TOTAL LENGTH		180'
ABSORPTION AREA		360' + SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		45°
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
Box CAPACITY	1250 GAL
SEAM LOC	mid
TANK LID DEPTH	1.5'
BAFFLES	Yes
BAFFLE FILTER	NO
MANHOLE LOC	Front
6" PORT LOC	none
WATERTIGHT TEST	—
SEPTIC ^{Pump} TANK 2 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	on seam
TANK LID DEPTH	2'
BAFFLES	Front
BAFFLE FILTER	Yes (2nd)
MANHOLE LOC	Front / Rear
6" PORT LOC	none
WATERTIGHT TEST	—

Milky
Plastic
Tank
2 Comp.

ROAD

PRE-CONSTRUCTION 8/24/08 Due to extreme contour variances in SDA, trenches adjusted to 2' wide, 4x46' trenches are to be installed as per layout.

INSTALLATION D box set just below huge poplar tree. Run trenches back towards house staying away from trees (per home owner). (KW)

9/2/08 Contractor has all 4 trenches installed per layout. No distribution network or D box installed yet. (KW)

9/4/08 D box set. Distribution network to trenches installed. Plastic pump tank set. Tank set on 5" of sand and backfilled w/ sand.

X 1 of 2 drywells pumped/flopped. still need pump line and inlet pipe (KW)

9/24/08 P/A done, OK. 4" sch 40 line installed. 2" D.W.

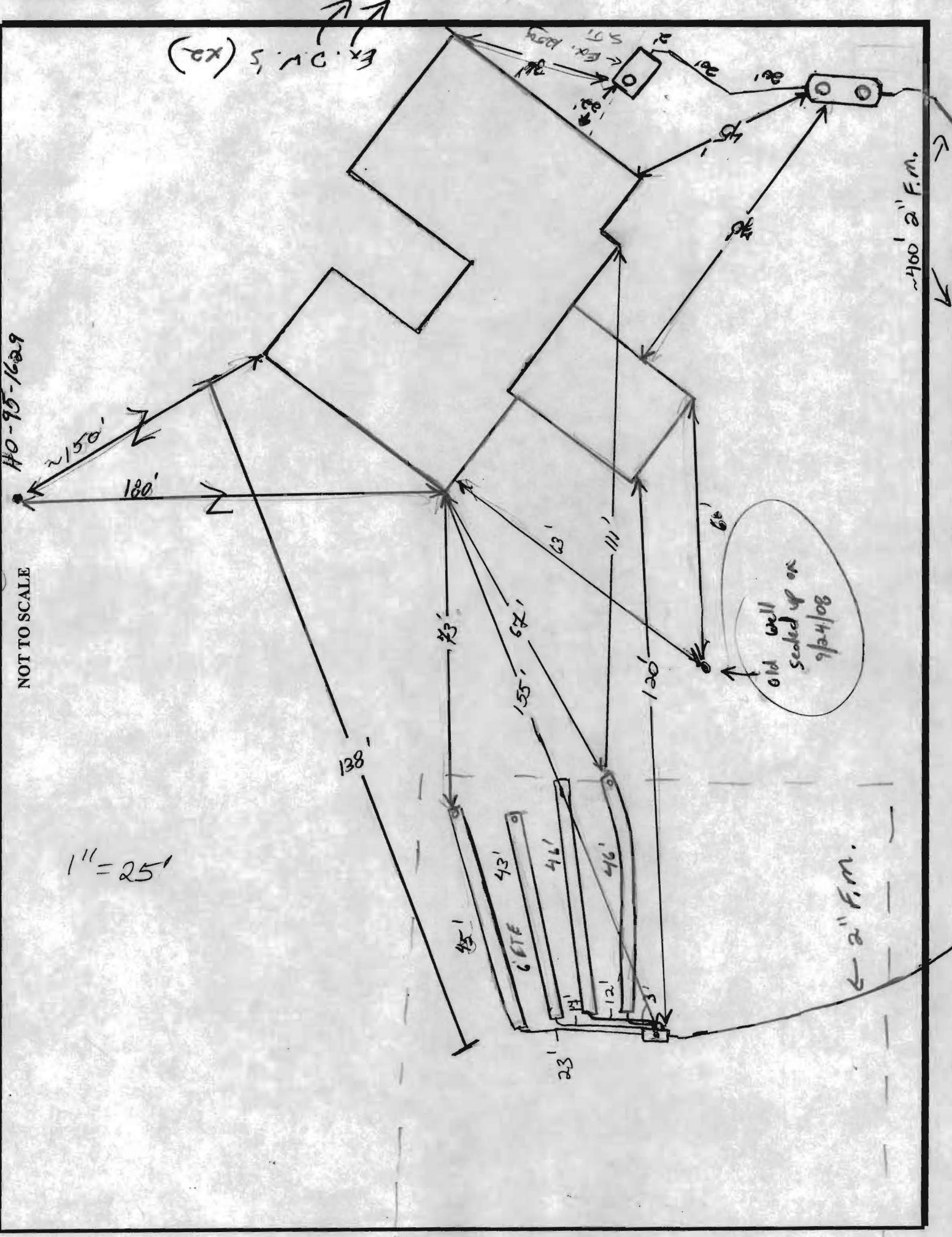
FINAL INSPECTOR K. Wally DATE OF APPROVAL 9/24/08
filled in w/ stone (22) and fill. System complete. OK to backfill rest of system. (KW)

#0-95-1629

NOT TO SCALE

1" = 25'

EX. D.V.'S (X2)



old well sealed up on
9/24/08

← 2" F.M.

← 400' 2" F.M.



South Carroll Backhoe, Inc.

4410 Salem Bottom Road • Westminster, Maryland 21157
Phone: 875-4197

Fax Cover Sheet

DATE: 6-6-08

FAX #: 410-313-2648

TO: Stuart Oster

FROM: Dow

TOTAL PAGES: 8

COMMENTS:

Here's the info you asked
for call me back as soon as
possible with ~~your~~ your
decision.

Thanks

Dow

410-382-3074

LIMITED WARRANTY AND REMEDIES

4700 Fremont, Box 4583 / Lincoln, NE 68504 (402) 467-5221

PLEASE READ CAREFULLY

This is a LIMITED WARRANTY. It covers rotationally molded, plastic products, manufactured by Snyder Industries, Inc.

The WARRANTOR is Snyder Industries, Inc., P.O. Box 4583, 4700 Fremont Street, Lincoln, Nebraska 68504, telephone (402) 467-5221.

The DURATION of the warranty varies according to product categories, as these are set forth on the reverse side of this warranty, and are incorporated herein by this reference. The warranty period commences with the DATE OF MANUFACTURE OF THE PRODUCT.

The Warrantor WARRANTS to the Buyer that the product(s) sold hereunder are free from defects in material and workmanship, under normal use and service, in the hands of the original purchaser.

NORMAL USE AND SERVICE REQUIRE that certain conditions be met with respect to the product(s) sold hereunder. These conditions vary according to product categories; however, the following conditions are of general application, to all products:

1. Excessive weight of strainers, shut-off valves or hoses must not be carried by the outlets of any product.
2. Use of any product must conform to all local, state and federal regulations or laws.
3. Assembly and installation instructions must have been observed.
4. Use of any product must conform to the design limitations of the product.
5. Use of any product must be in a suitable environment, including, but not limited to determining compatibility with any chemicals which may come into contact, and limiting service temperatures to a maximum of 100 degrees F. Consult the manufacturer for chemical temperatures above 100 degrees F.
6. Sharp blows to products must be avoided.

NORMAL USE AND SERVICE CONDITIONS pertaining to specific product categories are listed on the reverse side of this warranty, and are incorporated herein by this reference.

UNLESS THESE REQUIREMENTS FOR NORMAL USE AND SERVICE ARE OBSERVED, THE PRODUCTS HEREUNDER ARE SOLD "AS IS", AND WITHOUT ANY WARRANTY WHATSOEVER. NORMAL USE AND SERVICE DOES NOT INCLUDE, nor provide a remedy where damage results from breakage during shipment, vandalism, flood, fire, or other acts of God, modification or use of a product in a modified form or use of the product in an environment with which it is not compatible.

REMEDY OF THE BUYER IS LIMITED TO the replacement of any defective product (or its component, where applicable), FOB point of manufacture, or the allowance of credit therefor, at Warrantor's election, less an allowance for credit based on a percentage of the Buyer's original cost. This remedy is subject to an examination of the claimed product by an authorized representative of the Warrantor, disclosing to the satisfaction of the Warrantor, that said materials or workmanship were defective at the time of purchase. THE BUYER'S REMEDY UNDER THIS WARRANTY DOES NOT INCLUDE REPLACEMENT OF ANY MATERIAL LOST THROUGH LEAKAGE, OR DAMAGES FOR INJURY TO PERSONS OR PROPERTY CAUSED BY SUCH LEAKAGE.

Hardware, fittings, steel accessories, and other non-manufactured items, are NOT covered by this Warranty, but may be covered by original manufacturer's warranty.

THE REMEDIES PROVIDED HEREIN ARE EXCLUSIVE, AND EXPRESSLY IN LIEU OF ALL OTHER BUYER REMEDIES, INCLUDING ANY REMEDIES FOR THE COLLECTION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, AND APPLY TO ALL WARRANTIES AS TO THE PRODUCT SOLD, WHETHER THEY MAY BE DETERMINED TO BE EXPRESS OR IMPLIED. The Buyer shall not, in any event, be entitled to any amount of damages in excess of the purchase price of the product(s) sold hereunder.

DURATION OF WARRANTY

Durations of warranty periods are:

- a. Two (2) years, in the case of I) mini-bulk tanks, and II) proprietary non-tank products.
- b. Three (3) years, in all other cases of proprietary products.
- c. In all other cases, with written confirmation.

NORMAL USE AND SERVICE CONDITIONS

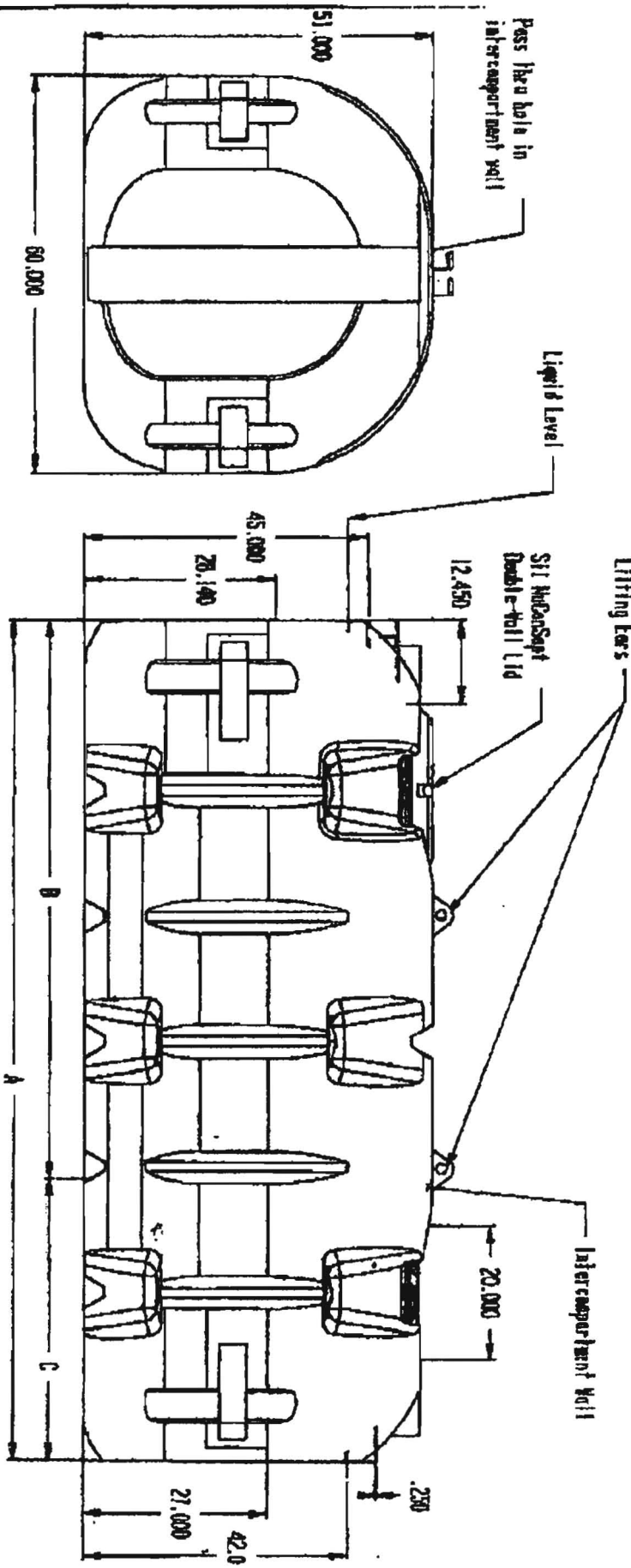
The following conditions apply to specific product categories:

- a. Horizontal Tanks
 - i. The tank must be supported with a full cradle which supports the bottom one-third (1/3) of the circumference of the tank for the entire length of the tank.
 - ii. The tank must be restricted within the full cradle, in such a manner as to prevent it from moving upon the cradle.
 - iii. Any tank which is mounted or installed in proximity to a motor or machine, must be fitted with a shield protecting the tank from any machine or vehicle generated heat.
 - iv. Agitator fittings for horizontal tanks are not recommended for use with roller or high pressure pumps.
- b. Vertical Tanks (flat or cone bottom)
 - i. The tank (and stand) must be installed at ground level, upon a stationary, flat, level, solid surface, free from foreign objects.
 - ii. Any tank (and stand) used upon a nurse vehicle must be both chocked and secured to the vehicle platform. Chocks must be secured to the platform on all four sides of the tank, to prevent sliding.
 - iii. Any installation site should be above any known flood plain or possible water saturation. The soil must be stable and compact.
 - iv. Whether upon installation site or a nurse vehicle, where a tank is anchored or secured in place by use of the molded-in tie-down lugs, any anchor line tension must be moderate.
- c. All Tanks
 - i. All tanks are sold "as is", unless, (1) Prior to placing into service, tanks are filled with water, and visually inspected while full, for signs of leaks (especially those which may result from fittings loosening during shipment) and any other damage which may have occurred during handling and shipping of the tank; and, (2) we are so notified in writing.
 - ii. The design, specific gravity rating of any tank must be observed in every application, ensuring that the weight-per-gallon of the proposed liquid is not above the rating of the tank proposed for use. Specific gravity ratings on commercial and agricultural tanks are not in compliance with ASTM D-1996 standards. Applications requiring ASTM compliance can be met with SII industrial tanks. Please consult the manufacturer for more information.
 - iii. Although most chemicals and non-stress cracking agents can be safely used in polyethylene tanks, compatibility must be determined. When the Buyer has no prior experience with, or is uncertain about the usage, he must contact the manufacturer for information and advice as to compatibility.

Record and retain a copy of the following information in the advent of a warranty question: tank part number, tank serial number, tank description/size, date of purchase, name of distributor supplying the tank, date of water pre-test, water pre-test observations, chemical stored, and tank use temperature.

The procedure for seeking a warranty adjustment is:

- Notify the Warrantor promptly of any claim of defect.
- Warrantor approval is necessary for any adjustment.
- If return of a product is necessary, such return must be shipped freight prepaid by the Buyer, and must have the Warrantor's prior authorization.
- For complete information and instructions contact the Warrantor.



Tank Size (gal.)

	A	B	C
750	96	64.12	31.88
900	111	74.10	36.09
1050	126	84.89	41.10
1200	146	97.30	48.78
1500	175	116.67	58.33

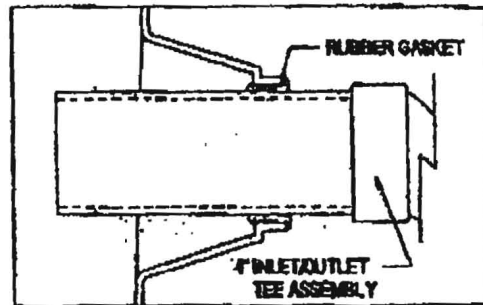
Septic Tank Installation Procedures [Low Profile]

Tee and Gasket Installation

(If tank was received unplumbed.)

1. Install inlet/outlet tee assembly from the inside of tank through the 5.0" holes in the end wall. Outlet tee will have a longer vented top than inlet tee.
2. Slide gasket onto pipe (lubricate with soapy water) from inside and push into place. [Figure 6]. Gasket will stop when bottomed out.
3. Make sure tee is properly positioned in relation to manhole opening. [Figure 7].
4. Riser pipe on the outlet tee is not glued, but is press fit for future installation of effluent filter if desired.

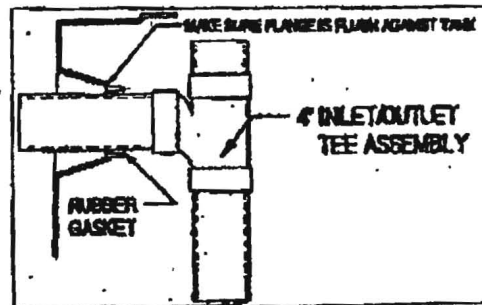
Figure 6.



Securing Lid to Tank or Manhole Riser

1. Apply appropriate sealant to sealing surface(s). [Figure 10]
2. Place lid onto the top of the tank and/or riser and line up the internal locking tabs. Push down firmly and rotate lid clockwise 1/16 of a turn to lock into place. (If it is not possible to engage the locking tabs in the slots, remove tabs with knife and proceed to next step.)
3. Install four self-tapping bolts (Included) through the bolt holes in the lid and into the tank wall. [Figure 8]
4. If tamper resistant bolts are required or desired, utilize bolts and driver bit supplied in tamper-resistant kit (part no. 3471197) optional.

Figure 7.



Securing Manhole Riser to Tank or Another Riser

(Risers are stackable)

1. Apply appropriate sealant to sealing surface(s) [+]. [Figure 10]
2. Place riser onto the top of the tank and/or riser and line up the internal locking tabs. Push down firmly and rotate riser clockwise 1/16 of a turn to lock into place.
3. Install four stainless steel screws (not supplied) at 90° intervals as shown in [Figure 9] [C] & [D].

Figure 8.

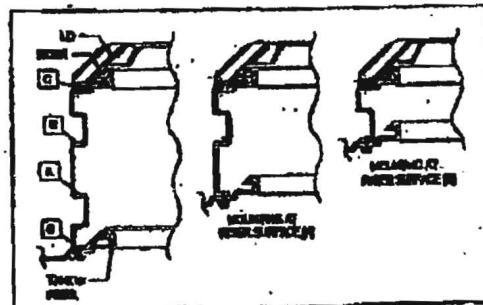
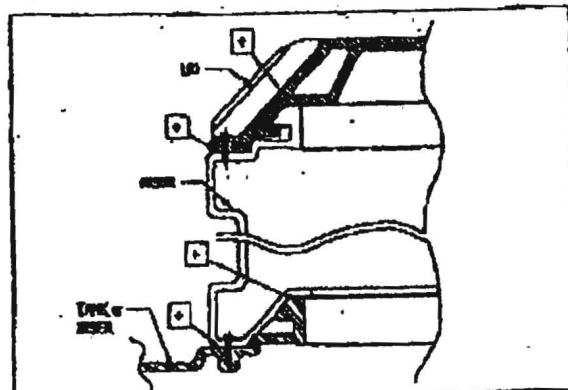
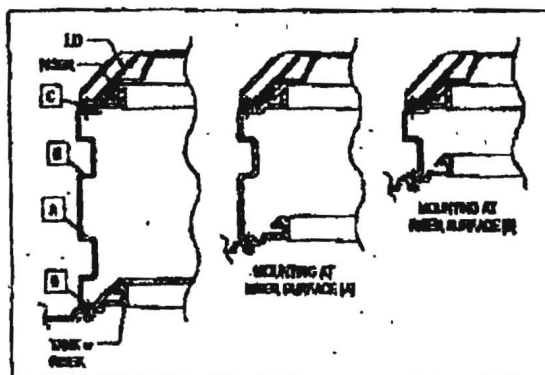


Figure 9.

Figure 10.



FAILURE TO FOLLOW INSTRUCTIONS MAY VOID WARRANTY
P/N 99084-010213

Septic Tank Installation Procedures [Low Profile]

1. Excavation [Figure 1]

- Backfill depth [A] (above inlet and outlet pipes) may range from 3" to 38".
- Side wall and end wall allowance [B] should be between 18" and 24".
- Recommended bedding [C] should be a well-compacted sand/gravel mixture with a minimum depth of 6" in soil terrain and 12" in rock terrain. Shift tank from side to side to help "settle" tank into bedding.

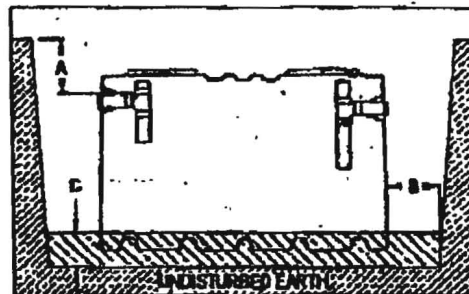


Figure 1.

2. Lid and Manhole Extension [Figure 2]

- Install the lid and/or manhole extension before the addition of backfill. (See back of this page for detail of lid and manhole extension installation.)
- Note that inlet is higher than the outlet.

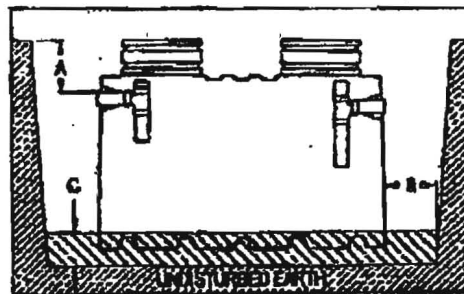


Figure 2.

3. Backfilling Exterior

- Clean debris-free native soil can be used as backfill material, provided it will freely flow in and around the tank.
- Addition of water will help the stabilization of tank during backfill (but is not required).
- Backfill around the perimeter of the tank in 12" layers. Lightly compact each layer. NEVER BACKFILL ON ONE SIDE ONLY. BACKFILL ALL OF THE OUTLINE OF THE SEPTIC TANK UNIFORMLY.
- Tamp and compact backfill under inlet and outlet pipe [Figure 4].
- Backfill to the surrounding level to a maximum of 36".
- Mound the soil over the septic tank to provide positive drainage away from the tank and to allow for soil settling in the excavated area. [Figure 5]

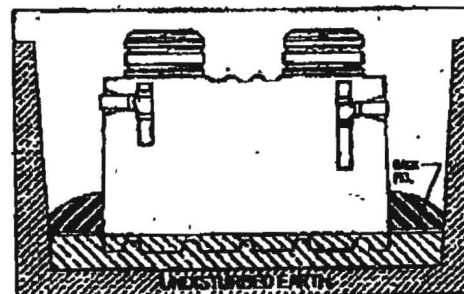


Figure 3.

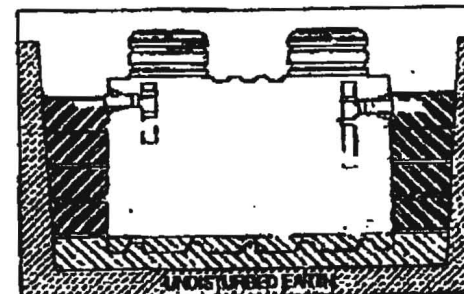


Figure 4.

4. General

- Caution should be used in high water tables and anti-floatation measures taken.
- Do not install the tank in paths of heavy equipment or vehicular traffic.
- Tank is designed for underground use only.
- If pumping the tank is required for normal maintenance - the tank should be refilled to reduce risk of floatation.
- Never use sharp objects around the tank. They may puncture the tank.
- Water temperature inside of tank not to exceed 140 degrees F.
- Contact local sanitarian for installation of additional tank accessories.

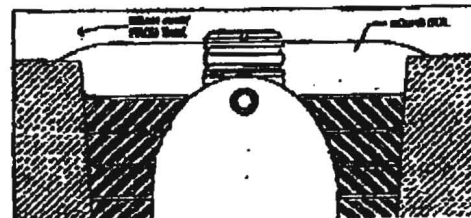


Figure 5.

FAILURE TO FOLLOW INSTRUCTIONS MAY VOID WARRANTY

ONE COMPARTMENT SEPTIC TANKS

1001200W95301	750 Low Profile	L,M,P	96"	60"	51"	2 - 24"
1001100W95301	900 Low Profile	M,P	111"	60"	51"	2 - 24"
1001000W95301	1050 Low Profile	M,P	126"	60"	51"	2 - 24"
1001400W95301	1250 Low Profile	M,P	146"	60"	51"	2 - 24"
1001500W95301	1500 Low Profile	M,P	175"	60"	51"	2 - 24"

TWO COMPARTMENT SEPTIC TANKS

1001200W95302	750 Low Profile	M	96"	60"	51"	2 - 24"
1001100W95302	900 Low Profile	M,P	111"	60"	51"	2 - 24"
1001000W95302	1050 Low Profile	M,P	126"	60"	51"	2 - 24"
1001400W95302	1250 Low Profile	L,M,P	146"	60"	51"	2 - 24"
1000500W95302	1500 Low Profile <i>ST72L</i>	L,M,P	175"	60"	51"	2 - 24"

PUMP TANKS

1001101W95301	900 Gallons	1059 Gallons	L,M,P	111"	60"	51"	2 - 24'
1001001W95302	1050 Gallons	1225 Gallons	M,P	126"	60"	51"	2 - 24'
1001001W95301	1050 Gal. North Carolina		M,P	126"	60"	51"	2 - 24'
1001401W95301	1250 Gallon	1424 Gallons	L,M,P	146"	60"	51"	2 - 24'
1001501W95301	1500 Low Profile	1734 Gallons	L,M,P	175"	60"	51"	2 - 24'

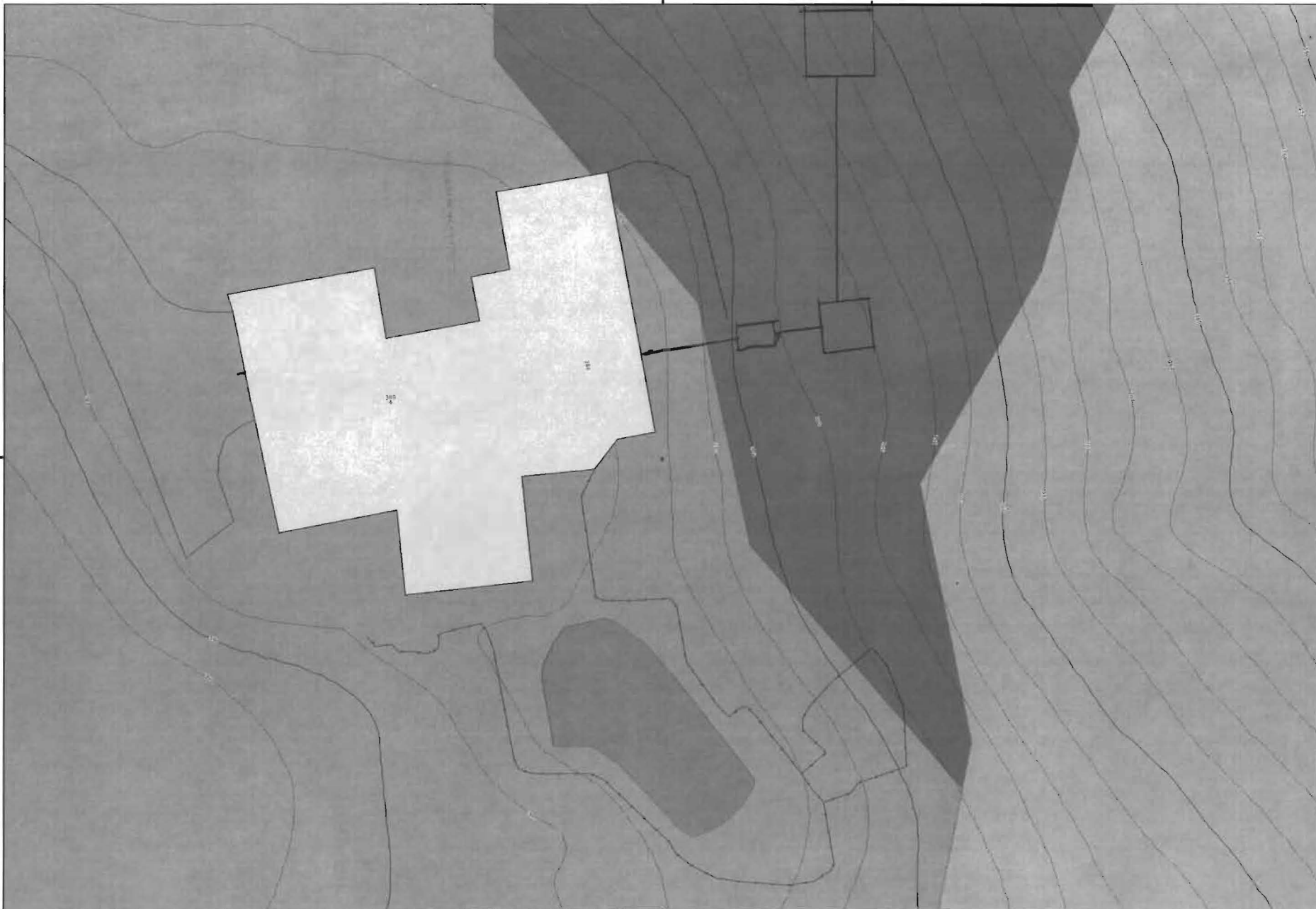
*1050 North Carolina (P/N 1001001W95301) conforms to and is approved for use in the state of North Carolina and ships with one, lockable 24" lid and one, 24" manway extension

CISTERNS

1001000W97401	1200 Low Profile	L,M,P	126"	60"	51"	2 - 24'
1001500W97401	1700 Low Profile	L,M,P	175"	60"	51"	2 - 24'

*Cisterns are furnished with manhole covers only.

-76°55'45"



39°48'33"

39°48'33"

-76°55'45"

Disclaimer: Howard County, Maryland assumes no responsibility for the accuracy of this report or the information contained herein or derived therefrom. The user assumes all risks and liabilities whatsoever resulting from or arising out of the use of this information. There are no oral agreements or warranties relating to the use of this report.

