



Innovative Process Engineering. PLLC

Monument, CO 80132

Drawn by: Christopher Tracy

Checked by: Ron LeBlanc, PE

Date: December 11, 2025

Project: 251037

Project Address: 5715 Whittemore Rd

County: El Paso

Client: Khaled Zaky

SITE PLAN

Contact Information

Email: Ron@ipepllc.com

Telephone: 720-775-0076

Property Details:

4 BED RESIDENCE
40 ACRE PROPERTY
WELL LOCATION SHOWN

Profile Pit Elevation and GPS coordinates:

PP1: 5786 ft : 38°44'56.11"N, 104° 6'15.48"W
PP2: 5786 ft : 38°44'55.61"N, 104° 6'15.66"W

STA Calculations:

4 BEDS = 7 PERSONS = 525 GAL/DAY
DOG KENNEL = 400 GAL/DAY
SOIL TYPE 3 = 0.35 LTAR

AREA = 925 GPD / 0.35 LTAR = 2,643 SQFT
TABLE 10.2 RED = 1.2 GRAVITY BED
TABLE 10.3 RED = 0.7 CHAMBERS
FINAL AREA = 2,220 SQFT

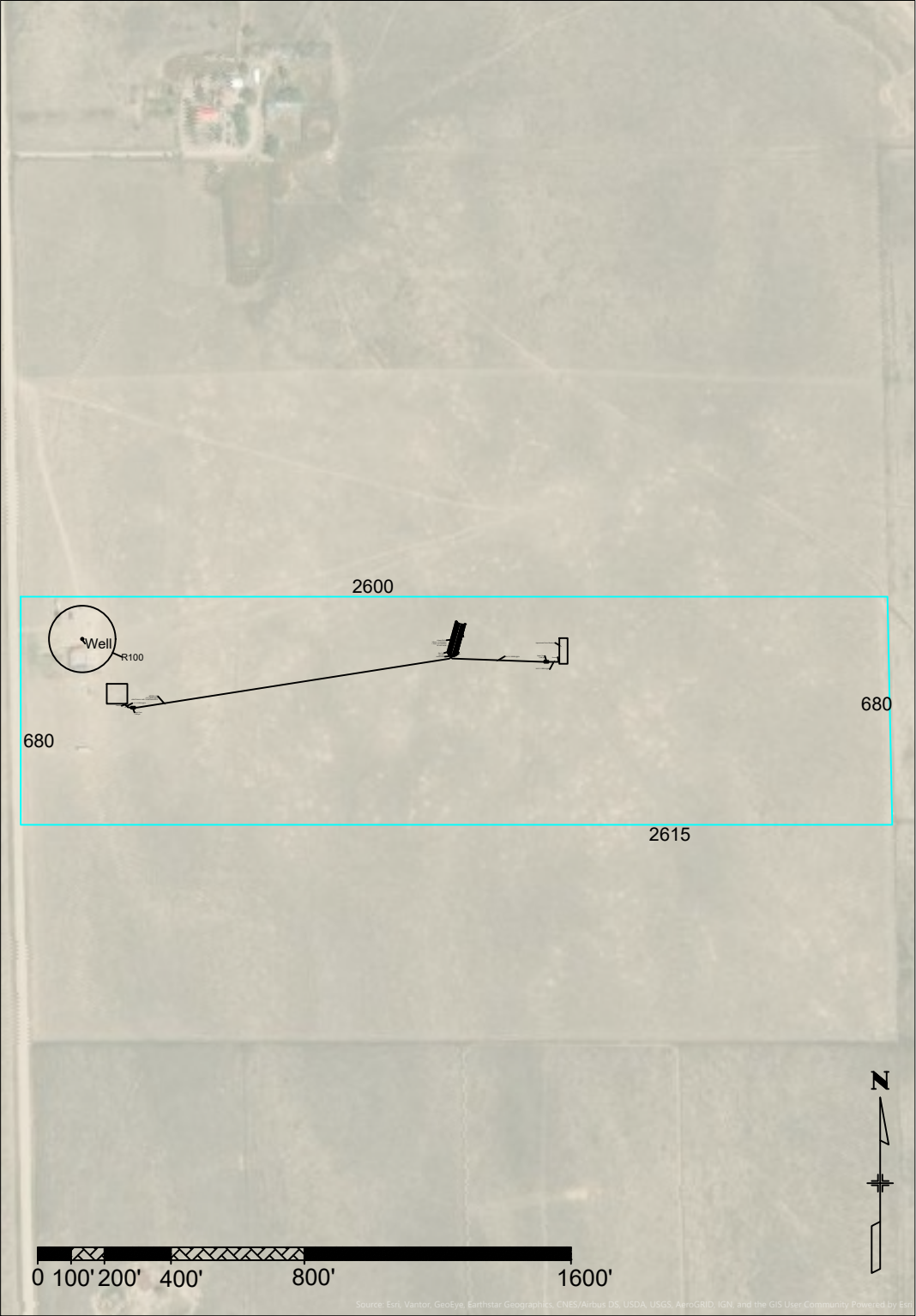
FOR 12 SQFT QUICK4 CHAMBERS = 185
2 BEDS OF
3 ROWS OF 23 CHAMBERS
1 ROW OF 24 CHAMBERS

SPECIFICATIONS:

SEPTIC TANK; RESIDENCE 1,250 GALLON, PRECAST, INFILTRATOR SYSTEMS OR EQUAL;
ADD 1/8" SCREEN TO TANK OUTLET
KENNEL 1,000 GALLON, PRECAST, INFILTRATOR SYSTEMS OR EQUAL; ADD 1/8" FILTER TO TANK OUTLET
DISTRIBUTION BOX; TUF-TITE 9-HOLE.

PIPING FROM RESIDENCE TO SEPTIC TANKS; 4" SDR35
PIPING FROM SEPTIC TANKS TO D-BOX AND MANIFOLD; 4" SDR35

EXCAVATE 2-4 FEET; PLACE CHAMBERS ON LEVELED SURFACE.
COVER WITH 12" ROCK FREE FILL; TYPE 1 OR 2 SOIL



GENERAL INSTALLATION NOTES:

CONSTRUCTION SHALL BE PER APPLICABLE LOCAL PLUMBING AND ELECTRICAL CODES.
LOT DIMENSIONS ARE APPROXIMATE.
INSTALL CLEANOUT WITHIN 5 FEET OF STRUCTURE.
INSTALL CLEANOUTS EVERY 100 FEET IN GRAVITY LINES
INSTALL CLEANOUTS IN GRAVITY LINES IF CHANGE OF DIRECTION EXCEED 135 DEGREES.
CONTRACTOR OR HOMEOWNER TO VERIFY ALL SETBACKS AND OBTAIN UTILITY CLEARANCES.
NEVER ALLOW RUNOFF ACROSS SOIL TREATMENT AREA (STA).
ADJUSTMENT OF LOCATIONS SHOWN IS PERMITTED, CHECK WITH ENGINEER FOR PRIOR APPROVAL.
LOCATE STA ON LEVEL TOPO - NOTIFY ENGINEER OF ELEVATION CHANGE FROM DESIGN.

GENERAL MAINTENANCE NOTES:

DESIGN AND PROPER INSTALLATION CANNOT GUARANTEE PROPER PERFORMANCE OF THE SYSTEM, GIVEN UNKNOWN USE AND FUTURE SITE CONDITIONS.
ONSITE WASTEWATER TREATMENT SYSTEMS ARE ONLY SUITED FOR DOMESTIC WASTE, INDUSTRIAL CHEMICALS WILL CAUSE PREMATURE FAILURE.
DO NOT ALLOW COOKING OILS, DRAIN CLEANER, OR EXCESS FOOD SOLIDS FROM GARBAGE DISPOSALS INTO OWTS.
SOME WATER TREATMENT SYSTEMS PRODUCE A WASTE STREAM THAT WILL CAUSE PREMATURE FAILURE.
DO NOT ALLOW ANY HOOFED ANIMAL OR VEHICULAR TRAFFIC OVER STA.
DO NOT PLANT TREES OR SHRUBS OVER STA.
DO NOT ALLOW RUNOFF OR SURFACE FLOW ACROSS STA.

THE USE OF A WATER SOFTENER AND/OR REVERSE OSMOSIS SYSTEM, AS WELL AS THE USE OF A GARBAGE DISPOSAL MAY DAMAGE YOUR SEPTIC SYSTEM

*MUST CONTACT ENGINEER PRIOR TO EXCAVATION



Innovative Process
Engineering. PLLC

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Date: December 11, 2025

Project: 251037

Project Address:
Whittemore Rd Parcel 2

County: El Paso

Client: Khaled Zaky

SITE DETAIL
RESIDENCE

SITE DETAIL SCALE:

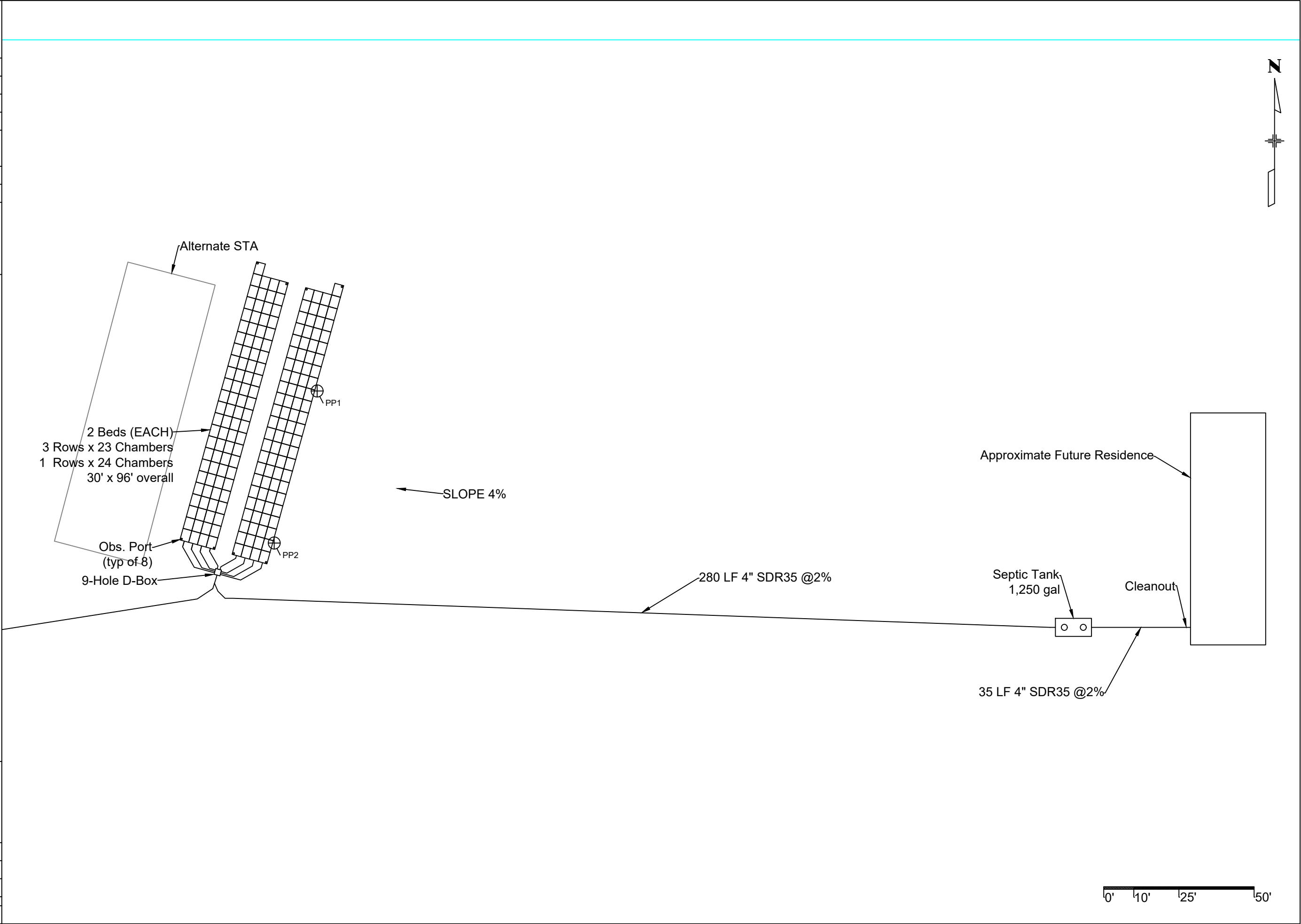
1 INCH = 30 FEET
ON 11 X 17 PRINT

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Telephone: 720-775-0076

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Monument, CO 80132

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Date: December 11, 2025

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Project Address:
Whittemore Rd Parcel 2

County: El Paso

Client: Khaled Zaky

SITE DETAIL
KENNEL

SITE DETAIL SCALE:

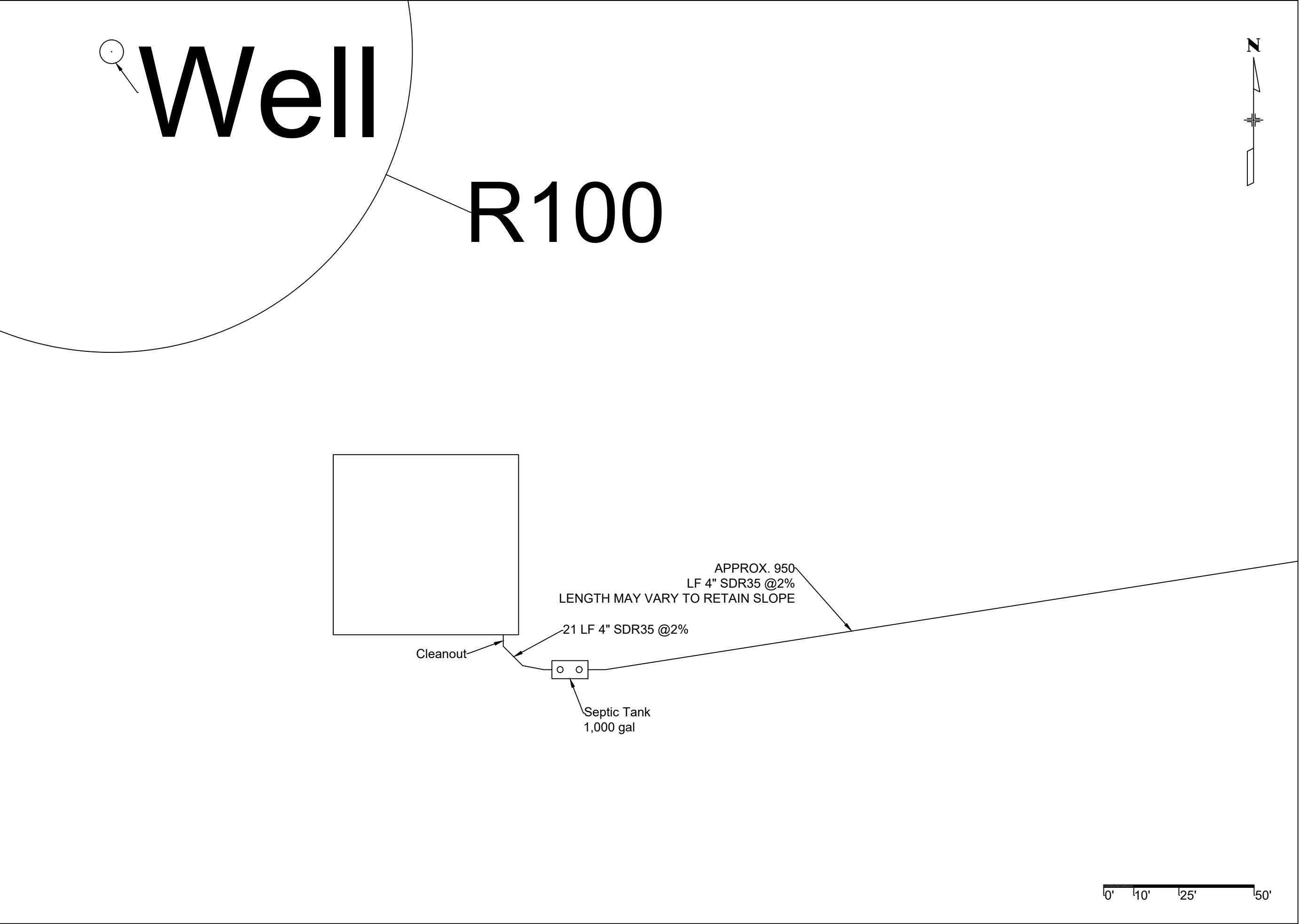
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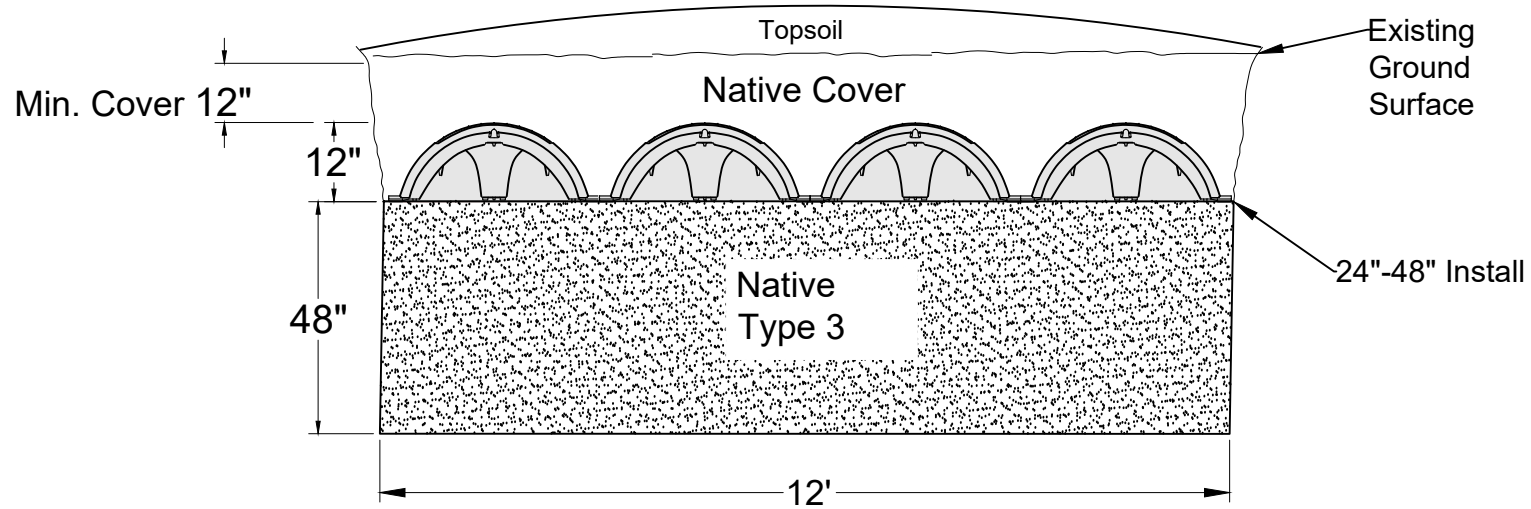
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**Innovative Process
Engineering, PLLC**
Monument, CO 80132

Whittemore R d Parcel 2
El Paso County, CO
December 11, 2025

Bed Section System 2

Project 251037



Typical Double Sweep Cleanout
with Screw Cap



**Innovative Process
Engineering, PLLC**

Monument, CO 80132

April 4, 2024

Std Detail



INFILTRATOR®
septic tanks

IM-1250

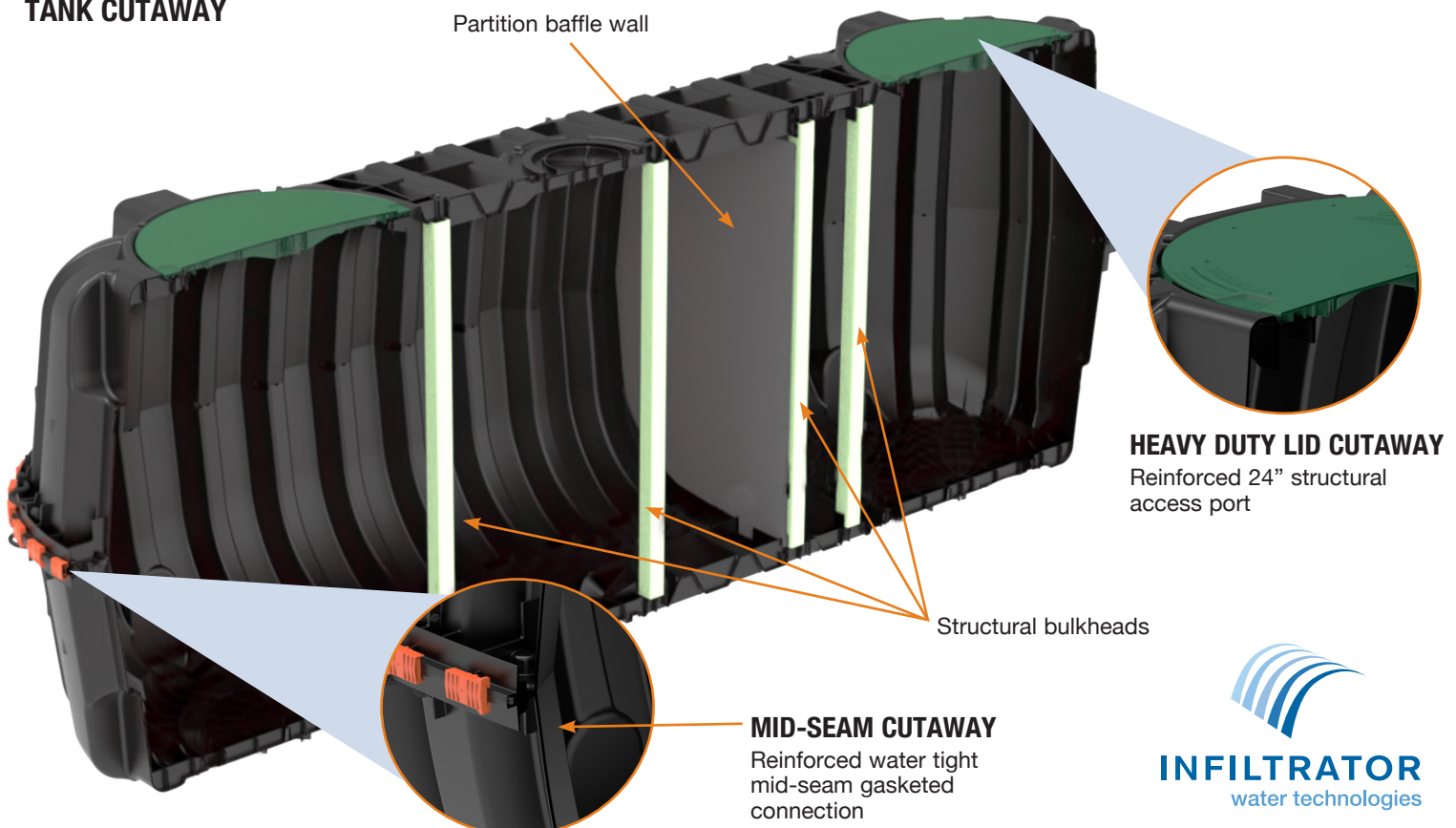
Features & Benefits

- Strong injection molded polypropylene construction
- Lightweight plastic construction and inboard lifting lugs allow for easy delivery and handling
- Integral heavy-duty green lids that interconnect with EZsnap risers, Safety Star secondary safety lid system, and pipe riser solutions
- Structurally reinforced access ports eliminate distortion during installation and pump-outs
- Reinforced structural ribbing and fiberglass bulkheads offer additional strength
- Can be installed with 6" to 48" (152 to 1,219 mm) of cover
- Can be pumped dry during pump-outs
- Suitable for use as a septic tank, pump tank, or rainwater (non-potable) tank
- No special water filling requirements are necessary
- The tank may be backfilled with suitable native soil. See installation instructions for guidance.



The Infiltrator IM-1250 is a lightweight, strong and durable septic tank. This watertight tank design is offered with Infiltrator's line of custom-fit EZsnap risers and heavy-duty lids. Infiltrator injection molded tanks provide a revolutionary improvement in plastic tank design, offering exceptional long-term strength and watertightness.

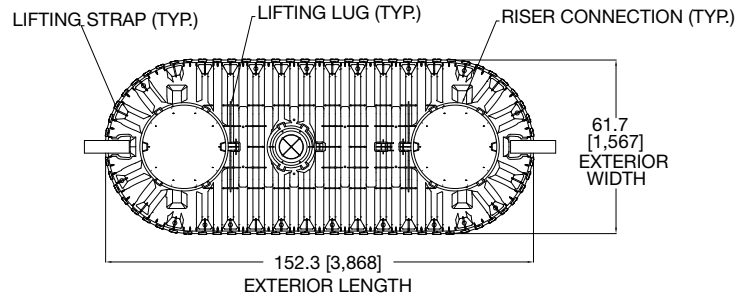
TANK CUTAWAY



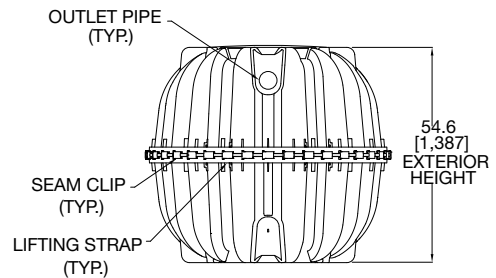
INFILTRATOR
water technologies

IM-1250 General Specifications and Illustrations

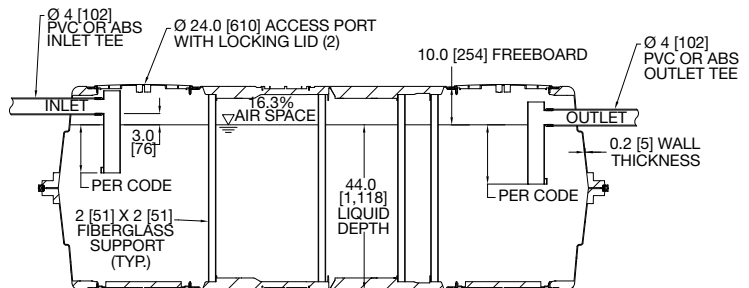
The IM-1250 is an injection molded two-piece mid-seam polypropylene tank. The injection molded design of the IM-1250 allows for a mid-seam joint that has precise dimensions for accepting an engineered EPDM gasket. The engineered mid-seam joint accepts a continuous loop EPDM gasket. Infiltrator's EPDM gasket design utilizes technology and materials from the sanitary sewer pipe industry to deliver a reliable watertight seal. The two-piece design is permanently fastened using a system of molded-in alignment dowels and locking seam clips. The IM-1250 is assembled and sold through a network of certified Infiltrator distributors.



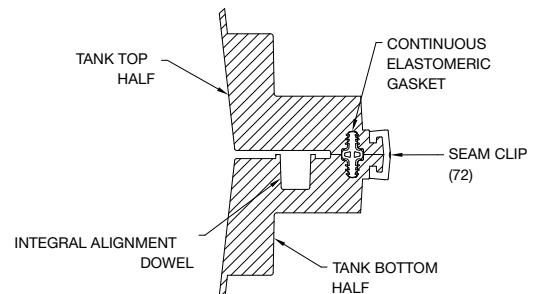
TOP VIEW



END VIEW



SIDE VIEW



MID-HEIGHT SEAM SECTION



Must be backfilled and installed in accordance with the Infiltrator IM- and CM-Series Septic Tank General Installation Instructions. For shallow ground water conditions reference the Infiltrator IM- and CM-Series Tank Buoyancy Control Guidance.

Please visit www.infiltratorwater.com or scan QR code for the latest information.

IM-1250	
Working Capacity	1,278 GAL (4,839 L)
Total Capacity	1,480 GAL (5,602 L)
Airspace	16.30%
Length	154" (3,911 mm)
Width	61.7" (1,567 mm)
Length-to-Width Ratio	2.8 : 1
Height	54.6" (1,387 mm)
Liquid Level	44" (1,118 mm)
Invert Drop	3" (76 mm)
Fiberglass Supports	4
Compartments	1 or 2
Maximum Burial Depth	48" (1,219 mm)
Minimum Burial Depth	6" (152 mm)
Maximum Pipe Diameter	4" (102 mm)
Weight	405 lbs (184 kg)



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1-800-221-4436
www.infiltratorwater.com
info@infiltratorwater.com

For U.S. Patents information visit www.infiltratorwater.com/patents. Other patents pending. Infiltrator, Quick4 and EZflow are registered trademarks of Infiltrator Water Technologies. Infiltrator Water Technologies is a wholly-owned subsidiary of Advanced Drainage Systems, Inc. (ADS).

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IM125 0124

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

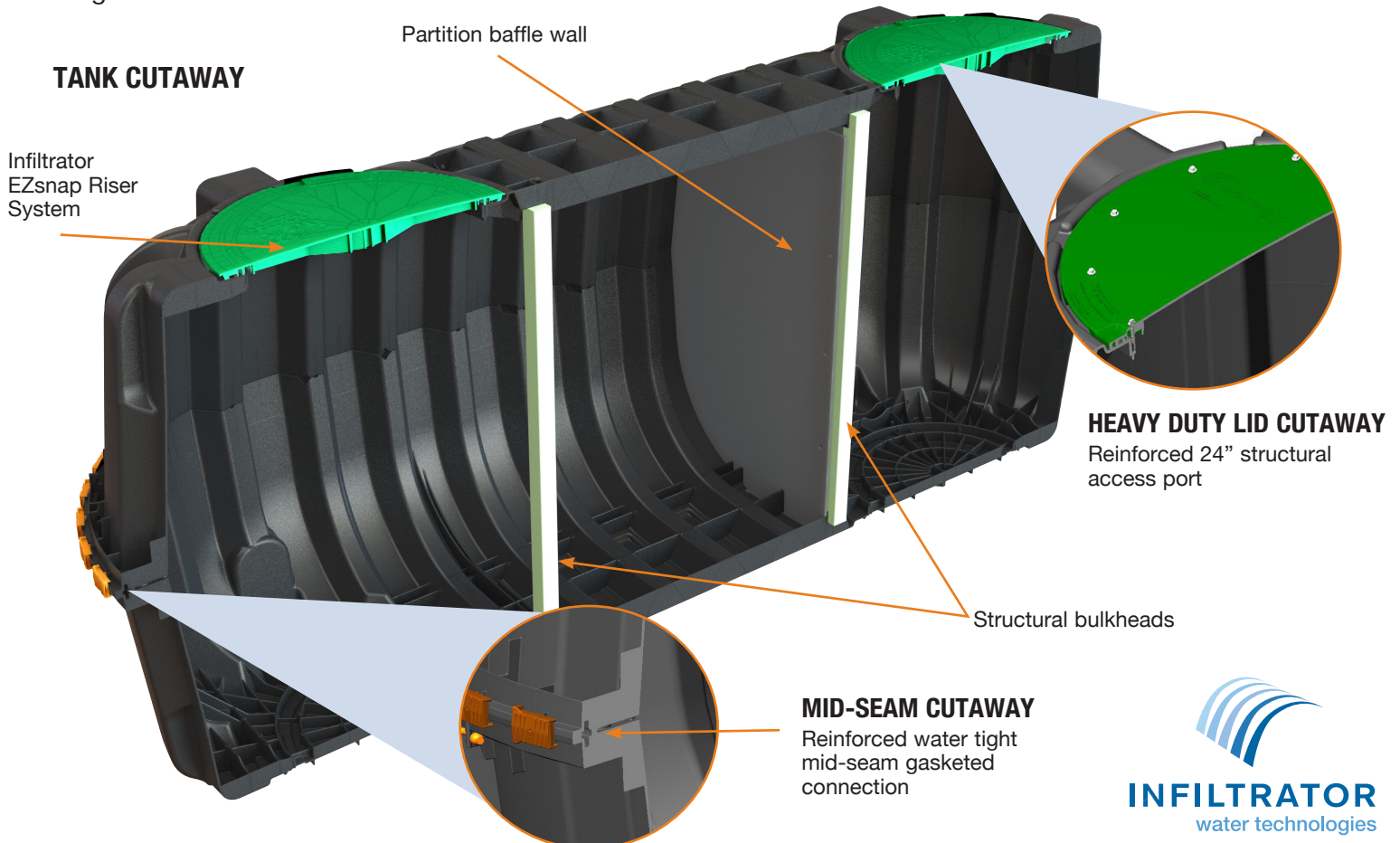


Features & Benefits

- Strong compression molded polypropylene construction
- Lightweight plastic construction and inboard lifting lugs allow for easy delivery and handling
- Integral heavy-duty green lids that interconnect with EZsnap risers and pipe riser solutions
- Structurally reinforced access ports eliminate distortion during installation and pump-outs
- Reinforced structural ribbing and fiberglass bulkheads offer additional strength
- Can be installed with 6" to 48" (152 to 1,219 mm) of cover
- Can be pumped dry during pump-outs
- Suitable for use as a septic tank, pump tank, or rainwater (non-potable) tank
- No special water filling requirements are necessary
- The tank may be backfilled with suitable native soil. See installation instructions for guidance.

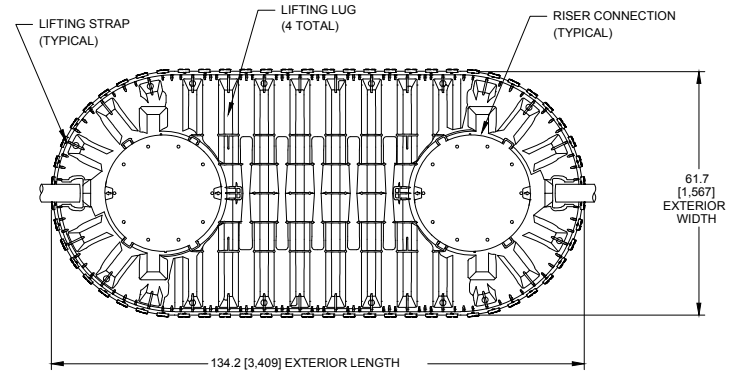
The Infiltrator CM-1060 is a lightweight, strong and durable septic tank. This watertight tank design is offered with Infiltrator's line of custom-fit risers and heavy-duty lids. Infiltrator compression molded tanks provide a revolutionary improvement in thermoplastic septic tank design, offering exceptional long-term strength and watertightness.

TANK CUTAWAY

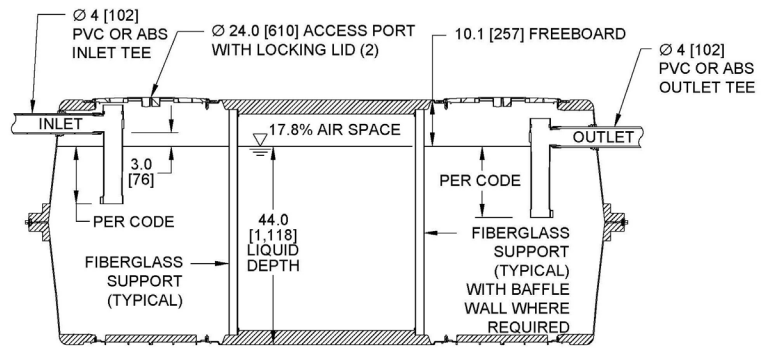


CM-1060 General Specifications and Illustrations

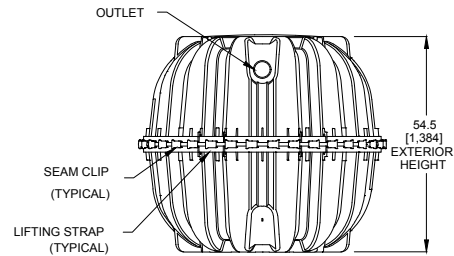
The CM-1060 is a compression molded two-piece mid-seam thermoplastic tank. The CM-1060 compression molded design allows for a mid-seam joint that has precise dimensions for accepting an engineered EPDM gasket. Infiltrator's gasket design utilizes technology from the water industry to deliver proven means of maintaining a watertight seal. The two-piece design is permanently fastened using a system of molded-in alignment dowels and locking seam clips. The CM-1060 is assembled and sold through a network of certified Infiltrator distributors.



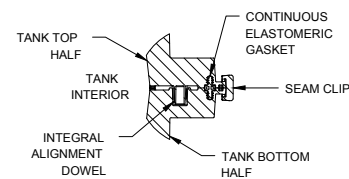
TOP VIEW



SIDE VIEW



END VIEW



MID-HEIGHT SEAM SECTION

Must be backfilled and installed in accordance with the Infiltrator IM- and CM-Series Septic Tank General Installation Instructions. For shallow ground water conditions reference the Infiltrator IM- and CM-Series Tank Buoyancy Control Guidance.

Please visit www.infiltratorwater.com or scan QR code for the latest information.



CM-1060	
Working Capacity	1,111 gal (4,207 L)
Total Capacity	1,309 gal (4,956 L)
Airspace	17.8%
Length	134.2" (3,409 mm)
Width	61.7" (1,567 mm)
Length-to-Width Ratio	2.3 to 1
Height	54.5" (1,384 mm)
Liquid Level	44" (1,118 mm)
Invert Drop	3" (76 mm)
Fiberglass Supports	2
Compartments	1 or 2
Maximum Burial Depth	48" (1,219 mm)
Minimum Burial Depth	6" (152 mm)
Maximum Pipe Diameter	4" (102 mm)
Weight	331 lbs (151 kg)



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U.S. Patents: 8322948; 8337119; 8297880; 7914230; 7008138. Other patents pending. Infiltrator, Quick4 and EZflow are registered trademarks of Infiltrator Water Technologies. Infiltrator Water Technologies is a wholly-owned subsidiary of Advanced Drainage Systems, Inc. (ADS).

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CM02 0222

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436



HOME

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1-800-382-7009

1200 Flex Ct Lake Zurich, IL 60047



Effluent Filters, Residential and Commercial

EF-4 Residential Series Effluent Filter

**800 GPD****86 ft. of 1/16" Filtration**

The EF-4 series filters remove solids down to 1/16" and greatly extend the life of the septic system. Shown at the left is the **EF-4 Combo** which includes the 4" standard length (14" rise) T-Baffle™, the **EF-4** Filter, and the **B4035** bushing for reducing the outlet from Sch. 40 to SDR35 pipe. The **SD-4** Solids Deflector is optional. Also available is the new **EF-4-18** which is the same except has an 18" rise (see below).

The Filter and the T-Baffle are NSF Standard 46 rated. The filter is rated at 800 GPD. The EF-4 Series is protected by U.S. Pat. Nos. 6,319,403; D,431,629; and other Patents Pending.

Tuf-Tite, Inc.

Construction Products

1200 Flex Court

Lake Zurich, IL 60047

800-382-7009

847-550-1011

847-550-8004 (fax)

ABOUT US

SUSTAINABILITY

		
EF-4 Filter Only 18 per carton	EF-4-18 Combo Same as EF-4 but with 18" rise 20 per carton	SD-4 Solids Deflector Increases time between filter cleanings. 18/112 per carton



TUF-TITE®

9-Hole Distribution Box



Tough Problem

Providing a simple, reliable, and permanent means for dividing septic tank effluent flow.



TUF-TITE Solution

A strong, stable, permanent, non-corrosive Tuf-Tite Distribution Box, with a Tuf-Tite Speed Leveler in each outlet.

Tuf-Tite® Distribution Box. THE TOUGH ONE!

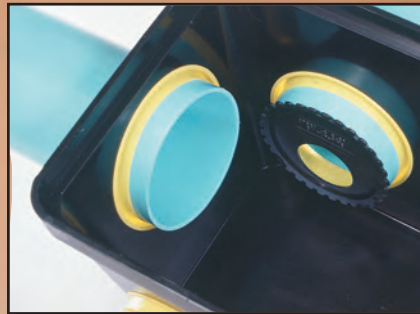
- Injection molded HDPE
- Non-corrosive
- Simple to install
- Easy to level

In a septic environment, no other material can match High Density Polyethylene in delivering a lifetime of trouble-free service. Tuf-Tite Distribution Boxes are injection molded, using only premium HDPE which contains no fillers or foam.



Snap-in pipe seals

They're patented. Simply insert your PVC pipe and push it through the flexible, polyethylene Tuf-Tite seal. Pipes fit watertight. Installation couldn't be easier.



They're permanent

Unlike cement-based pipe grout, Tuf-Tite seals will not crack or corrode in septic conditions. They stay pliable and watertight permanently.



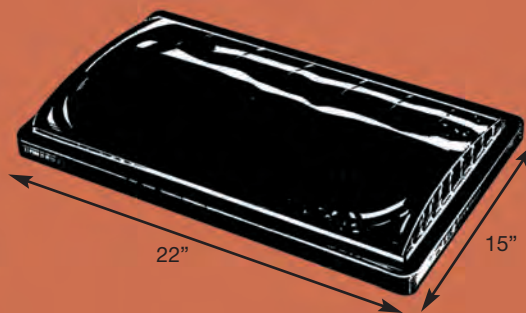
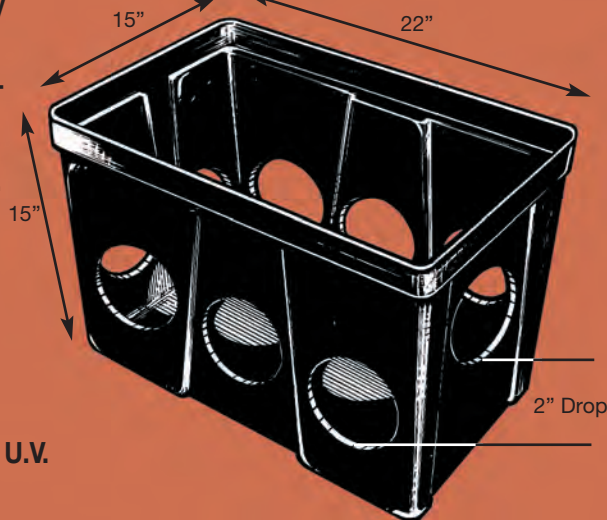
9-Hole Distribution Box 9HD2

■ Injection molded.
Exceptionally strong.

■ HDPE is non-corrosive in a septic environment.

■ Patented snap-in pipe seals simplify installation.

■ All Tuf-Tite products are U.V. stabilized.

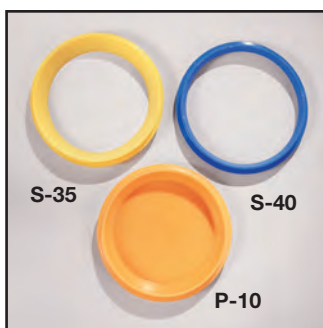


Domed Lid. Heavy-duty HDPE Lid is ribbed and domed for exceptional strength. Slotted sides interlock on the Distribution Box to assure a tight fit.

The 9HD2 Distribution Box comes complete with a Domed Lid, 11 snap-in fittings of your choice, and a Plastic Handle should a precast concrete lid be used.

INSTALLATION IS JUST THIS SIMPLE

1. Position the Distribution Box on level virgin soil. **Do not place box on a concrete slab.**
2. Install the inlet pipe and outlet pipes. Be sure the bottoms of all pipes rest on virgin soil.
3. Level the Distribution Box and all pipes as needed.
4. Backfill the pipes to within two feet of the Distribution Box. Recheck the level of the box, then backfill up to the top lid ridge.
5. Install and adjust Tuf-Tite Speed Levelers.
6. Place lid on the Distribution Box and finish backfilling.



Choice of Fittings

S-35 Pipe Seal, for:

- Sewer and Drain
- SDR 35
- Thin Wall
- ASTM 3034
- 1500 Lb. Crush

S-40 Pipe Seal, for:

- Schedule 40
- 4\" Corrugated

P-10 Plug, for unused holes

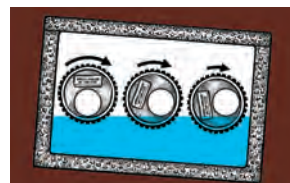


Tuf-Tite Speed Levelers™

Control the flow of effluent from the Distribution Box. Simply insert a Speed Leveler into each outlet pipe. Rotate each Speed Leveler so the flow is distributed as desired. Available for 3\" or 4\" PVC pipe.

HOW TO SET SPEED LEVELERS

1. Insert a Speed Leveler into each outlet pipe inside the Distributions Box. Rotate each Leveler until the Flo-Hole is at the 12 o'clock position.
2. Start filling the Distribution Box with water. Stop when the water level touches the "Inner Guide Ring" of the highest Speed Leveler.
3. Rotate all the Speed Levelers until each of the Flo-Holes is aligned just above the water level. Slowly add more water to see if it enters all the Flo-Holes simultaneously. Make fine-tune adjustments if necessary.
4. You can alternate fields, or rest failed lines anytime. Simply rotate the Leveler on the appropriate pipe until the Flo-Hole is at the 12 o'clock position to stop the flow.



Drainage and Septic Products

Tuf-Tite® Corporation

1200 Flex Court
Lake Zurich, Illinois 60047



Water-tight
Lids and Risers
by Tuf-Tite®



The Quick4® Standard Chamber

Quick4® Series

Quick4 Standard with MultiPort EndCap



The Quick4® Standard Chamber fits in a 36" wide trench and is ideal for curved or straight systems. It features the patent-pending Contour Swivel Connection™ which permits turns up to 15°, right or left. The MultiPort™ endcap allows multiple piping options and eliminates pipe fittings. The chamber's four-foot length provides optimal installation flexibility.

Chamber Benefits:

- Advanced contouring connections swivel up to 15°, right or left
- Latching mechanism allows for quick installation
- Four-foot chambers are easy to handle and install
- The Quick4 Standard Chamber supports wheel loads of 16,000 lbs/axle with only 12" of cover
- Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)



MultiPort Endcap Benefits:

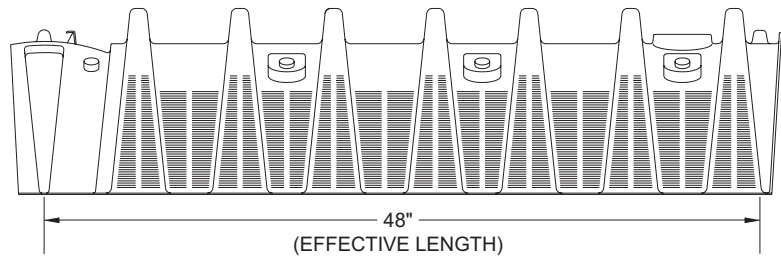
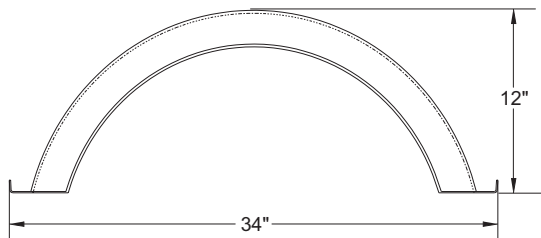
- Tear-out seals on inlet ports provide a tight fit to the pipe
- Eight molded-in inlets/outlets allow for maximum piping flexibility
- Eliminates pipe fittings
- Fits on either end of the Quick4 Standard Chamber



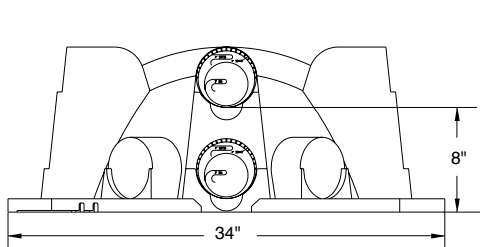
Quick4® Series

Because installations are faster with Quick4 chambers, you save on heavy equipment operation and labor.

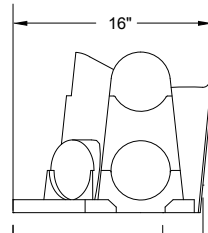
Quick4 Standard Chamber



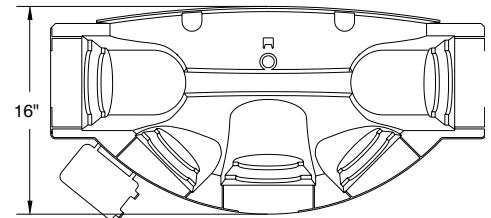
MultiPort EndCap



FRONT VIEW

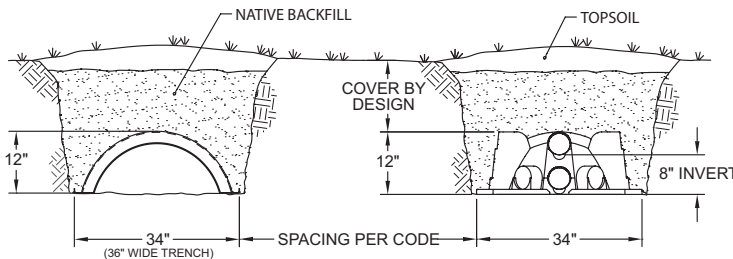


SIDE VIEW



TOP VIEW

Typical Trench View



INFILTRATOR WATER TECHNOLOGIES, LLC ("INFILTRATOR")

Infiltrator Water Technologies, LLC STANDARD LIMITED Drainfield WARRANTY

(a) The structural integrity of each chamber, endcap, EZflow expanded polystyrene and/or other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder. The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

Quick4® Standard Chamber Specifications

Size	34"W x 53"L x 12"H (864 mm x 1346 mm x 305 mm)
Effective Length	48" (1219 mm)
Louver Height	8" (203 mm)
Storage Capacity	43 gal (163 L)
Invert Height	8" (203 mm)



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P.O. Box 768
Old Saybrook, CT 06475
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U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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