



Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road
 Mechanicsburg, PA 17055
 Maryland • Pennsylvania • Virginia • West Virginia

Contractor: S.M. Fridy Mechanical Contracting LLC
Address: 4586 Fairview Road
Address: 0
City, State, ZIP: Columbia PA 17512

Project : Northern Lebanon Fieldhouse
Address: & Athletic Improvements

Change Order No: 1
Date: 7/26/2022

Architect's Project No: 3447

The contract is changed as follows:

Contract Type: Plumbing

Notice to Proceed Date: 12/28/2021

Add	
Deduct \$	5,219.00

To provide substitution grease interceptor and add wall hydrants/floor drain in A105 and A009. See the attached SM Fridy COR PC-01.

Additional Documentation Attached

This Change Order is not valid until signed by the Owner, Architect, and Contractor.

Original Contract Amount	\$	507,776.00
Net Change by previous Change Orders	\$	-
Contract Amount prior to this Change Order	\$	507,776.00
Net Change by this Change Order	\$	(5,219.00)
Contract Amount after this Change Order	\$	502,557.00

Contract Time adjustment as a result of this Change Order Days
 Date of Substantial Completion as of this Change Order

Architect
 Crabtree Rohrbaugh & Assoc.
 401 East Winding Hill Road
 Third Floor
 Mechanicsburg, PA 17055

Contractor
 S.M. Fridy Mechanical Contracting LLC
 4586 Fairview Road
 0
 Columbia PA 17512

Owner
 Northern Lebanon SD
 345 School Drive
 0
 Fredericksburg PA 17026

By: _____

By: _____

By: _____

Date: _____

Date: _____

Date: _____

PC-PCO #1**CHANGE ORDER****OWNER:**

Northern Lebanon School District
345 School Drive
Fredericksburg, PA 17026

PROJECT NAME:

New Field House & Athletic Improvements
345 School Drive
Fredericksburg, PA 17026

Project No. CRA# 3447

Contract: Plumbing

S.M. Fridy Mechanical Contracting, LLC
4586 Fairview Road
Columbia, PA 17512

Description of Work:

Grease Interceptor Substitution (See attached Substitution Request Form)
Installation of Floor Drains and Wall Hydrants in Area(s) A-105 & A-009

MATERIALS			
QTY	Description	PRICE	TOTAL
1	Schier GB-250 Grease Interceptor	-\$6,158.00	-\$6,158.00
1	MIFAB Floor Drain ((A-105)	\$85.00	\$85.00
1	MIFAB Wall Hydrant (A-105)	\$227.00	\$227.00
1	MIFAB Wall Hydrant (A-009)	\$227.00	\$227.00
1	Misc. Material	\$100.00	\$100.00
		\$0.00	\$0.00
TOTAL MATERIALS:			-\$5,519.00

LABOR			
Description	HOURS	RATE	TOTAL
Labor	3.00	\$100.00	\$300.00
TOTAL LABOR:			\$300.00

MATERIAL:	(\$5,519.00)
Labor:	\$300.00
TOTAL:	(\$5,219.00)
Overhead & Profit 15%:	
TOTAL CREDIT to OWNER: (\$5,219.00)	



MOORE ENGINEERING COMPANY CONSULTING ENGINEERS LANCASTER, PENNSYLVANIA	
SHOP DRAWING AND SAMPLE REVIEW	
<small>REVIEW IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES AND DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE; FOR INFORMATION THAT PERTAINS SOLELY TO THE INSTALLATION PROCESSES AND TO THE TECHNIQUES OF CONSTRUCTION; AND FOR COORDINATION OF THE WORK OF ALL TRADES, CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH CONTRACT DOCUMENTS. ANY EQUIPMENT SUBSTITUTIONS AS WELL AS ANY ADDITIONAL LABOR OR MATERIALS REQUIRED AS A RESULT OF A SUBSTITUTION.</small>	
<input type="checkbox"/> APPROVED	<input type="checkbox"/> NOT APPROVED
<input checked="" type="checkbox"/> APPROVED AS NOTED	<input type="checkbox"/> REVISE AND RESUBMIT
<input type="checkbox"/> APPROVED AS NOTED (RESUBMITTAL REQUIRED)	
BY: MKH	DATE: 2/18/2022

Project Name: **New Northern Lebanon Field House**
MEC Project #: **20105**

Submittal Name: **Grease Interceptor (GI-1)**
Specification Section: **220410**

Comments:

- The proposed substitution and associated credit shall be reviewed and approved by the owner. This review and approval is contingent upon the owner's approval of the substitution.**
- The Plumbing Contractor shall furnish and install an 8" concrete slab with rebar above the interceptor per the installation instructions**
- Grease Interceptor shall be furnished and installed with flow controls for 200 gpm option.**
- Furnish and install interceptor per all the manufacturer's installation instructions.**
- Coordinate all dimensional requirements with all other trades.**
- Contractor shall submit revised grease interceptor submittal to code official and sewer authority for approval.**

Agree SMF

Agree SMF

Agree SMF

Agree SMF

Agree SMF

Agree SMF

FW: Northern Lebanon New Field House - Grease Interceptor Submittal

From: Dustin Keller (dkeller@fswaonline.net)
To: denisefridy@yahoo.com
Date: Wednesday, March 16, 2022 at 12:31 PM EDT

Hi Denise,

I'm sorry I left this slip. Since I talked to you last we lost an employee and I've had to pick up his duties.

The engineers and I are all comfortable with the submittal to go with the pre-fab poly grease trap.

If you have any questions please don't hesitate to call or email.

Thanks!

Dusty Keller
Fredericksburg Sewer & Water Authority
Chief Operator
Cell: (717) 304-1061



From: Jeff Steckbeck <jsteckbeck@steckbeck.net>
Sent: Wednesday, March 16, 2022 10:15 AM
To: Dustin Keller <dkeller@fswaonline.net>; Chad Smith <csmith@steckbeck.net>; Paul Lutzkanin <plutzkanin@steckbeck.net>
Subject: RE: Northern Lebanon New Field House - Grease Interceptor Submittal

It was agreed that it is acceptable. It is at higher elevation of site, with no groundwater encountered. It is privately owned and maintained. So the plastic unit is acceptable.

SUBSTITUTION REQUEST FORM
(Attach to all requests for substitution)

PROJECT NAME AND NUMBER

New Northern Lebanon Field House and Athletic Improvements | Project No 3447

ARCHITECT



**Crabtree, Rohrbaugh & Associates
Architects**

411 East Walnut Hill Road
Mechanicsville, Pennsylvania 17050
Phone: 717-439-9272 Fax: 717-439-9247

<u>SECTION</u>	<u>PARAGRAPH</u>	<u>SPECIFIED ITEM</u>
<u>220410</u>	<u>2.15A</u>	<u>Grease Interceptor (GI-1)</u>

PROPOSED SUBSTITUTION

Schier Model No. GB-250

The attached includes product data, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request. Applicable portions of the data are clearly identified.

The attached data also includes a description of changes to the Contract Documents which the requested substitution will require for its proper installation.

The Contractor certifies that the following paragraphs, unless modified on attachments, are correct:

1. The requested substitution does not affect the dimensions shown on the Drawings
2. The requested substitution does not change the building design, including engineering design or detailing.
3. The requested substitution has no adverse effect (including additional scope of work or cost increase) on any other trades, the Contractor's Construction Schedule or any specified warranty requirements.
4. Maintenance and service parts will be locally available for the requested substitution.
5. The requested substitution offers the Owner a substantial advantage, in cost, time, or energy conservation.

The Contractor further certifies that the function, appearance, quality and warranty of the requested substitution are equivalent or superior to those of the specified item.

CONTRACTOR'S CERTIFICATION:

Signature:  Date: 2/10/2022

Firm: S.M. Fridy Mechanical Contracting, LLC

Address: 4586 Fairview Road Columbia, PA 17512

Proposed Credit: \$ 6,158.00

Attachments:

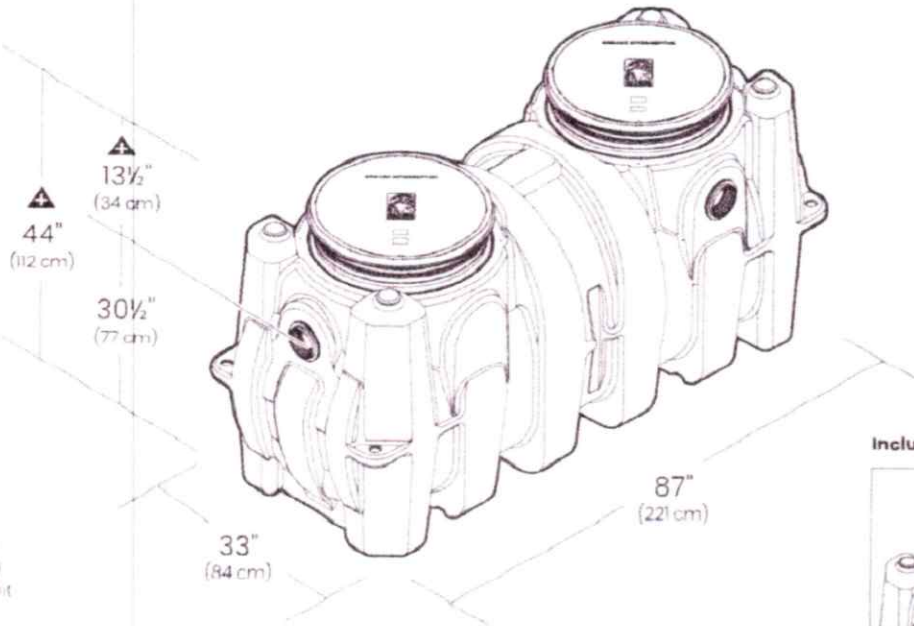
Specification and Submittal Sheet

Northern Lebanon School District
New Field House and Athletic Improvements
CRA Project No. 3447

012500 - 4
Substitutions
November 3, 2021

SPECIFICATION AND SUBMITTAL

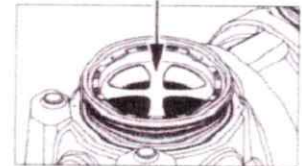
GB-250 100/200 GPM Great Basin™ Indoor/Outdoor Grease Interceptor



Adjustable cover adapters provide up to 4' of additional height.

This unit is certified to ASME A112.14.3 (Type D) and CSA B4811. This unit does not require flow control.

Includes Safety Star®



SUBMITTAL Standard

Location: Indoor/outdoor
Installation: Above/below grade
Flow Rates / Grease Capacities:
 100 GPM (6.3 L/s) / 1,895 lbs (860 kg), 260 gal (984 L)
 200 GPM (12.6 L/s) / 1,196 lbs (543 kg), 164 gal (621 L)*
Removal Efficiency at the Rated Capacity: 96.7%
Solids Capacity: 69 gal (261 L)
Liquid Capacity: 277 gal (1,049 L)
Weight: 376 lbs (171 kg)
Connections: 4" FPT with 4" plain end adapters, single inlet and triple outlet
Covers: Cast iron covers, pickable 24" gas/water tight, H-20 rated, proof-load tested to 40,000 lbs
Access Restrictor: Safety Star® (450 lb rating) built into each cover adapter

Options

- 6" plain end inlet/outlet (straight-through) with dual pumpout port connections
- 6" MPT inlet/outlet (stainless steel, straight-through)
- FO (fixed outlet)
- C24H2 Composite covers, coated 24" gas/water tight, traffic load rated for 16,000 lbs

Accessories

- FCR2 (x2) >4" - 34" field cut riser
- FCR2 (x4) >34" - 64" field cut risers
- FCR2 (x6) >64" - 94" field cut risers
- CA2 Adapter for 24" corrugated pipe riser
- PP3 Pumpout port
- AK1 High water anchor kit
- ATD1 Cover adapter tie-down kit
- AGS1 Above grade support kit
- PLAIN-EA-24 2" plain end fitting
- PLAIN-EA-34 3" plain end fitting
- FPT-EA-34 4" x 3" FPT fitting
- FPT-EA-23 3" x 2" FPT fitting
- CC2 Integral membrane clamping collar kit

* At 200 GPM, this unit is certified to ASME A112.14.3 (Type C) and CSA B4811 and includes an internal flow control. External flow control with vent not required.

Approval

Signature	Date	Company
Specifying Engineer		Engineering Firm



MODEL NUMBER:
GB-250

DESCRIPTION: 100/200 GPM Polyethylene Grease Interceptor

PART # 4055-001-02	DWC BY: B. Karrer	DATE 8/28/2020	REV.	ECO
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SPECIAL PRECAUTIONS

For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM! Doing so may result in property damage, personal injury or death.

CAUTION! Do not install this unit in any manner except as described in these instructions.

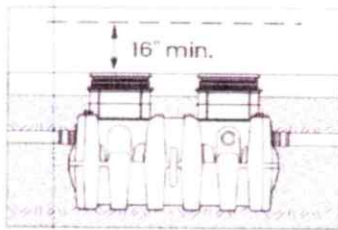
Installation Instructions

Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



Install interceptor as close as possible to fixtures being served

Provide at least 16" clearance above unit for routine maintenance.

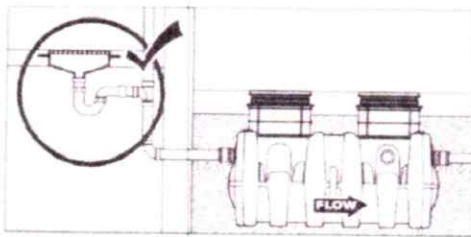


High Temperature Kitchen Water

If water is entering the interceptor at excessive temperature (over 150° F), a drain water tempering valve (DWT) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150° F being discharged into the sanitary sewer. Water above 150° F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).

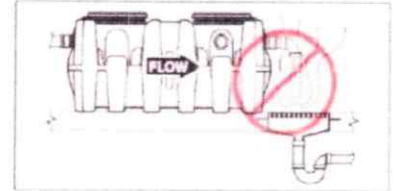
ODOR ALERT!

Interceptor is not a sewer gas trap. All upstream fixtures must be trapped



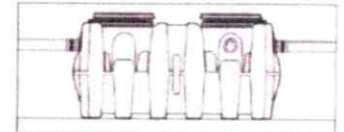
ODOR ALERT!

Do not install air gap on outlet side of interceptor



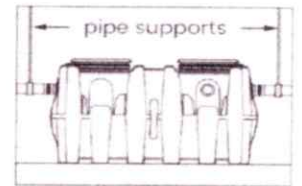
Fully Support Base of Unit

Install unit on solid, level surface in contact with the entire footprint of unit base



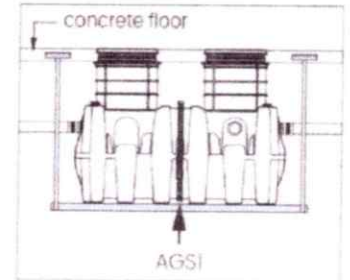
Support Inlet and Outlet Piping

For above grade installations ensure heavy inlet and outlet piping (such as cast iron or long runs) is properly supported or suspended during the entire installation process to prevent connection failure or damage to bulkhead fittings.



Suspended Installations

Design trapeze to support the wet weight of the unit. Do not partially support unit or suspend unit using metal U-channel to create a trapeze. The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation in suspended installations. In these situations Above Grade Support Kit model AGSI is required to be installed to maintain GB-250 structural integrity



DO NOT USE CAST IRON COVERS IN ABOVE GRADE OR INDOOR INSTALLATIONS

Use composite cover C24H2 for above grade installations



SCHIER

MODEL NUMBER:
GB-250

DESCRIPTION: 100/200 GPM Polyethylene Grease Interceptor

PART # 4055-001-02

DWG BY: B Karrer

DATE 8/28/2020

REV

ECO

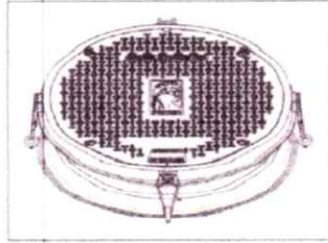


SPECIAL PRECAUTIONS

For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

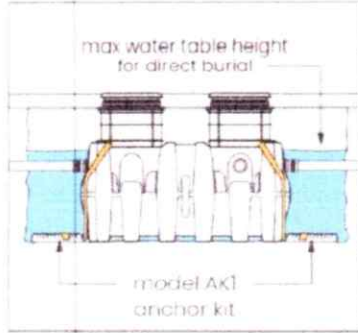
Secure Cover Adapters

Cover adapters must be secured to base units in above grade installations with increased head pressure conditions. Use cover adapter tie-down kit model ATD1.



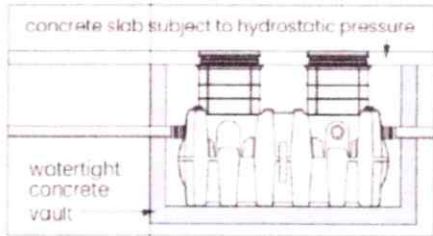
High Water Table Installations

Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured in stages to avoid crushing the interceptor). At risk areas include but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Model GB-250 uses model AK1 anchor kit.



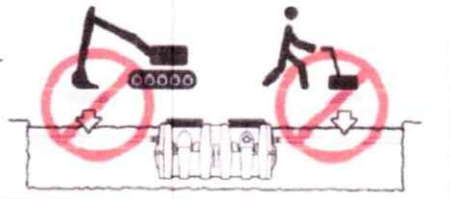
Hydrostatic/Pressure Slabs

When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



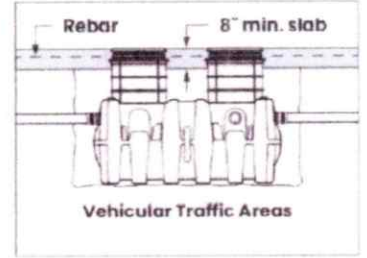
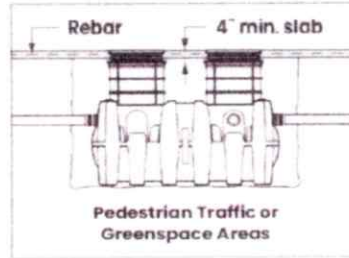
DO NOT COMPACT BACKFILL MECHANICALLY

Compact by hand only

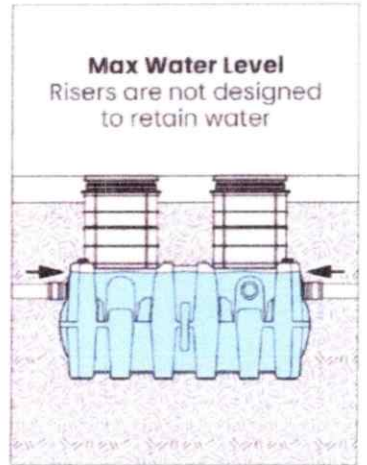
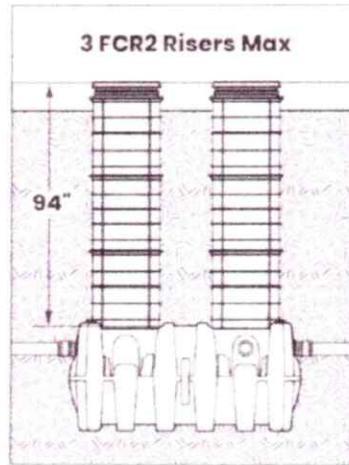


Below Grade Installation Slab Requirements

A concrete slab to finished grade with rebar is required when installing interceptor below grade.

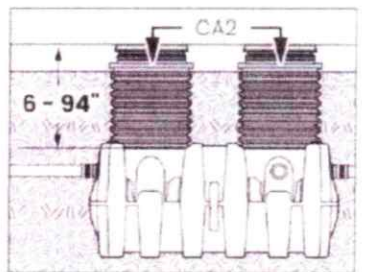


Installations with Risers



Corrugated Riser Pipe Requirements

Riser adapter model CA2 must be used when installing interceptors using 24" diameter corrugated pipe as a riser. This will adequately embed the cover adapter in the concrete slab, preventing cover/cover adapter failure under traffic rated loads.



SCHIER

MODEL NUMBER:
GB-250

DESCRIPTION: 100/200 GPM Polyethylene Grease Interceptor

PART # 4055-001-02

DWG BY B. Korrer

DATE: 8/28/2020

REV:

ECO

SPECIFICATIONS

NOTES

- 4" FPT with 4" plain end adapters, single inlet and triple outlet
- Unit weight - w/cast iron covers, 375 lbs., w/composite covers, 266 lbs. (For wet weight add 2,310 lbs.)
- Maximum operating temperature 150° F continuous
- Capacities - Liquid: 277 gal., @100 GPM - Grease: 1,895 lbs @200 GPM - Grease: 1,196 lbs Solids: 89 gal
- This unit does not require flow control for 100 GPM applications. Built-in Flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary
- For gravity drainage applications only
- Do not use for pressure applications
- Cover placement allows full access to tank for proper maintenance.
- Vent not required unless per local code
- Engineered inlet and outlet diffusers are removable to inspect / clean piping
- Integral air relief / Anti-siphon / Sampling access
- Adjustable cover adapters provide up to 4" of additional height.
- Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (B) positions
- Flow rates are based on 2-minute drain time
- Safety Star[®], access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating)

DIFFUSION FLOW TECHNOLOGY

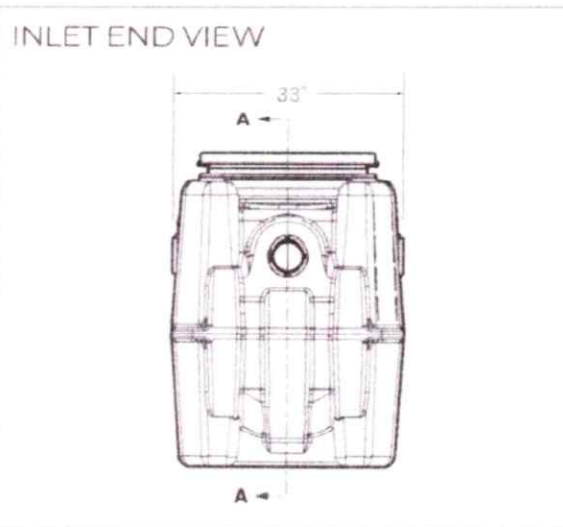
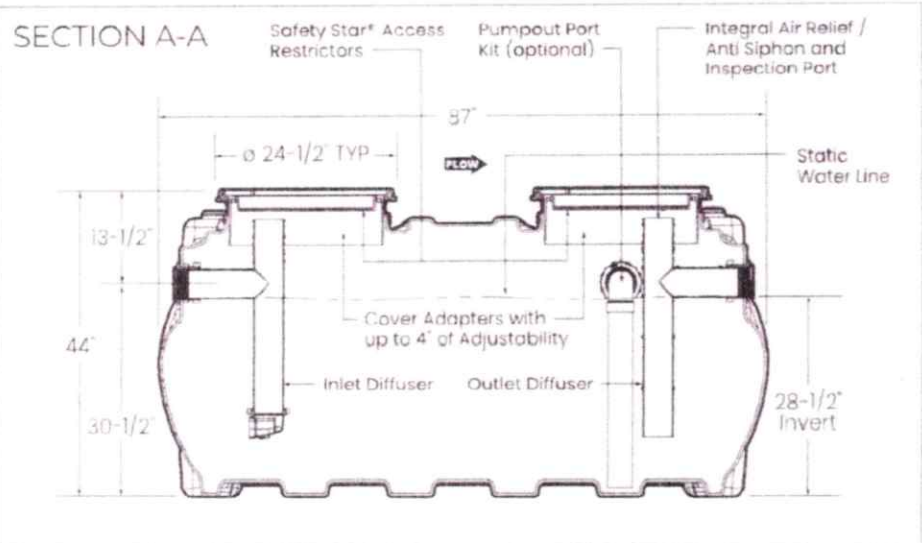
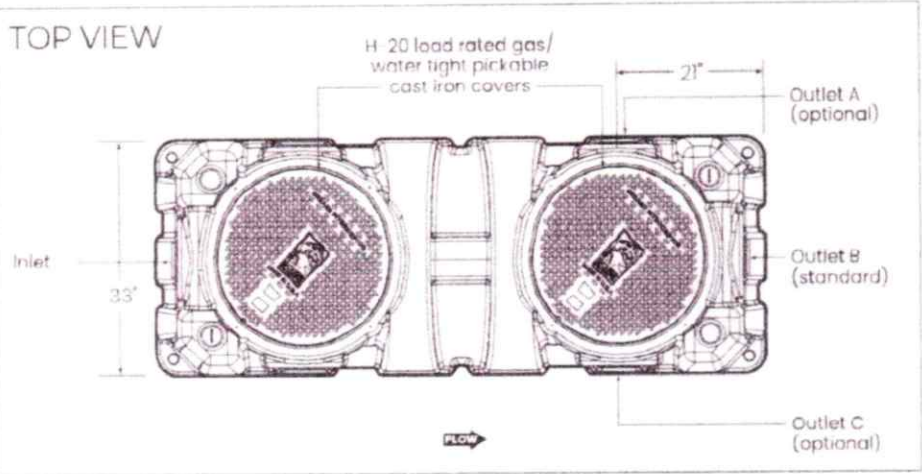
The inlet diffuser reduces turbulence, creates laminar flow and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers. The inlet diffuser can be attached to any of the three inlets provided to ease job site piping layouts. The integral air relief / anti-siphon at the outlet diffuser top allows pressure stabilization within the unit during operation. The outlet diffuser can easily be attached to any of the three outlets provided to ease job site piping layouts.

ENGINEER SPECIFICATION GUIDE

Schier Great Basin[™] grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481, with adjustable cover adapters, Safety Star[®] access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor flow rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 GPM @ 200 GPM. Cover shall provide water/ gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

Great Basin[™] hydromechanical grease interceptors are third party performance tested and listed by IAPMO to ASME #A112.14.3 and CSA B481 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	Removal Efficiency	
	100 GPM	200GPM
	96.7%	93.5%
2	3,790 lbs.	2,392 lbs.
3	5,625 lbs.	3,588 lbs.
4	7,580 lbs.	4,790 lbs.



MODEL NUMBER:
GB-250

DESCRIPTION: 100 / 200 GPM Polyethylene Grease Interceptor

PART # 4055-001-02

DWG BY R Karrer

DATE 8/28/2020

REV

ECO