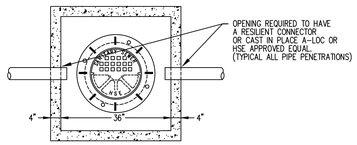
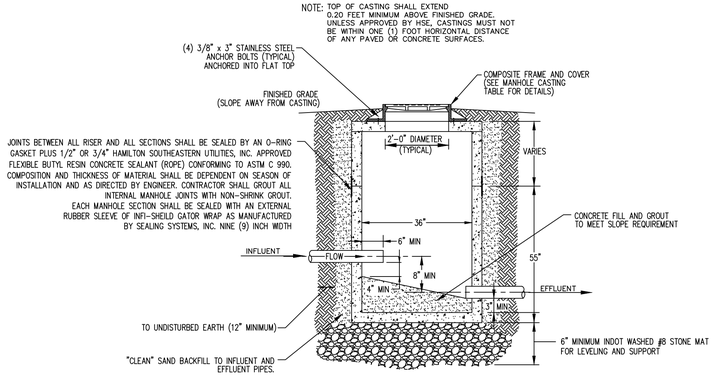
| MANHOLE CASTING TABLE | | |
|---|---|---|
| LOCATION | MODEL | COVER |
| 18" INCHES OR MORE ABOVE 100 YEAR FLOOD ELEVATION OF ALL WATERWAYS | EAST JORDAN COMPOSITE LID AND CASTING | HEAVY DUTY SOLID |
| LESS THAN 18" ABOVE 100 YEAR FLOOD ELEVATION OF ALL WATERWAYS | EAST JORDAN COMPOSITE LID AND CASTING | HEAVY DUTY SOLID |
| LID | | |
| OWNERSHIP | LETTERING | |
| HAMILTON SOUTHEASTERN UTILITIES, INC. | "SANITARY SEWER – HSE" | |
| PRIVATE | "SANITARY SEWER" | |

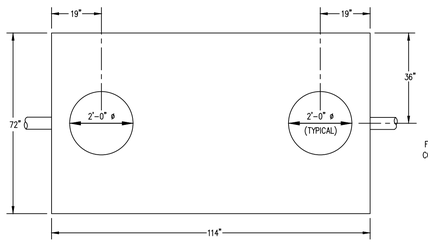
ALL CASTINGS TO BE SUPPLIED WITH FOUR (4) ANCHOR BOLT HOLES




## TYPICAL CONCRETE WASTEWATER SAMPLING STRUCTURE

NO SCALE




TOP VIEW

NOTE:
STRUCTURE TO BE SEALED IN THE FIELD WITH A SINGLE ROW OF CENTERED KENT SEAL™ No2 PREMIUM or FLEXIBLE BUTYL RESIN CONCRETE SEALANT (ROPE) CONFORMING TO ASTM 990

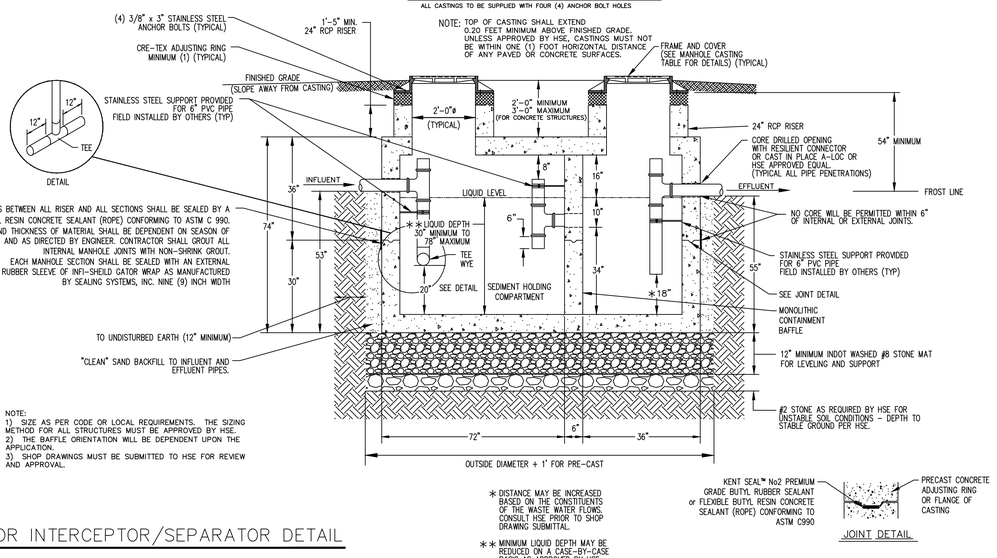
NOTE:
McCREARY CONCRETE PRODUCTS, INC
APPROXIMATE WEIGHTS:
BASE SECTION 9375 lbs
RISER SECTION 7650 lbs
TOP SLAB 5700 lbs
STRUCTURE WEIGHT TOTAL 22725 lbs

| MANHOLE CASTING TABLE | | |
|---|---|---|
| LOCATION | MODEL | COVER |
| 18" INCHES OR MORE ABOVE 100 YEAR FLOOD ELEVATION OF ALL WATERWAYS | EAST JORDAN 1050-Z1 | HEAVY DUTY SOLID |
| LESS THAN 18" ABOVE 100 YEAR FLOOD ELEVATION OF ALL WATERWAYS | EAST JORDAN 1050-Z1WT | HEAVY DUTY SOLID |
| LID | | |
| OWNERSHIP | LETTERING | |
| HAMILTON SOUTHEASTERN UTILITIES, INC. | "SANITARY SEWER – HSE" | |
| PRIVATE | "SANITARY SEWER" | |

ALL CASTINGS TO BE SUPPLIED WITH FOUR (4) ANCHOR BOLT HOLES

NOTE:
1) INTERCEPTOR/SEPARATOR SHALL CONFORM TO ASTM C 478 UTILIZING 4,000 PSI CONCRETE. CONTRACTOR MAY SUPPLY INTERCEPTOR/SEPARATORS AS MANUFACTURED BY SCHIER PRODUCTS (www.schierproducts.com) MODEL NUMBER GB-250 GREAT BASIN GREASE INTERCEPTOR. MODEL NUMBER SV24-06 BELOW GRADE SAMPLING PORT.

2) EXTERIOR INSTALLATION MUST BE CONCRETE OR CAST IRON. STEEL INTERCEPTORS/SEPARATORS SHALL ONLY BE INSTALLED INSIDE A BUILDING.




NOTE:
1) SIZE AS PER CODE OR LOCAL REQUIREMENTS. THE SIZING METHOD FOR ALL STRUCTURES MUST BE APPROVED BY HSE.
2) THE BAFFLE ORIENTATION WILL BE DEPENDENT UPON THE APPLICATION.
3) SHOP DRAWINGS MUST BE SUBMITTED TO HSE FOR REVIEW AND APPROVAL.

* DISTANCE MAY BE INCREASED BASED ON THE CONSTITUENTS OF THE WASTE WATER FLOWS. CONSULT HSE PRIOR TO SHOP DRAWING SUBMITTAL.

** MINIMUM LIQUID DEPTH MAY BE REDUCED ON A CASE-BY-CASE BASIS AS APPROVED BY HSE.

## EXTERIOR INTERCEPTOR/SEPARATOR DETAIL

NO SCALE




JOINT DETAIL

NOTES
1. LISTED BY IAPMO TO ASME GREASE INTERCEPTOR STANDARD #A112.14.3 AND CSA B481.1
2. FACTORY INSTALLED BUILT-IN FLOW CONTROL.
3. FOR GRAVITY DRAINAGE APPLICATIONS ONLY. DO NOT USE FOR PRESSURE APPLICATIONS.
4. SEAMLESS HIGH DENSITY POLYETHYLENE TANK.
5. UNIT SUPPLIED WITH BUILT-IN ADAPTER(S) FOR UP TO 6" OF ADJUSTABILITY. ADDITIONAL RISER(S) AVAILABLE FOR DEEPER BURIAL DEPTH.
6. COVER PLACEMENT ALLOWS FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
7. VENT NOT REQUIRED UNLESS PER LOCAL CODE.
8. NARROW FOOTPRINT ALLOWS CLEARANCE THROUGH DOORWAYS AND DOWN STAIRWELLS.
9. ENGINEERED INLET AND OUTLET DIFFUSERS ARE REMOVABLE TO INSPECT/CLEAN PIPING.
10. FOR ON-THE-FLOOR OR BURIED APPLICATIONS.
11. INTEGRAL AIR RELIEF / ANTI-SIPHON / SAMPLING ACCESS.
12. THREE OUTLET OPTIONS FOR EASY ROUGH IN. UNIT SHIPPED WITH OUTLET DIFFUSER IN OUTLET "B".

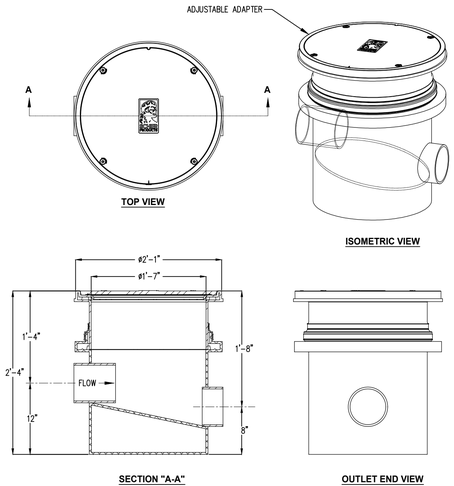
SPECIFICATIONS
1. 4" INLET/OUTLET SCH. 40, PLAIN END (NO-HUB)
2. MAX FLOW RATE: 100 GPM
3. LIQUID CAPACITY: 275 GALLONS
4. MAX GREASE CAPACITY: 1,078 LBS. (147.4 GALLONS)
5. MAX SOLIDS/SEDIMENT CAPACITY: 105 GALLONS
6. UNIT WEIGHT W/STD. COVERS: 230 LBS.
7. MAXIMUM OPERATING TEMPERATURE 190° CONTINUOUS.
8. HIGHWAY RATED COVER: 16,000 LB. CAPACITY (STANDARD)
9. SEAMLESS MOLDED POLYETHYLENE TANK.

ENGINEER SPECIFICATION GUIDE
SCHIER GREAT BASIN™ GREASE INTERCEPTOR MODEL # GB-250 SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED HIGH DENSITY POLYETHYLENE. INTERCEPTOR SHALL BE FURNISHED FOR ABOVE OR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS AND THREE OUTLET OPTIONS. INTERCEPTOR FLOW RATE SHALL BE 100 GPM. INTERCEPTOR GREASE CAPACITY SHALL BE 1,076 LBS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 2,000 LBS. LOAD CAPACITY.

DIFFUSION FLOW TECHNOLOGY
THE INLET DIFFUSER SPLITS INCOMING EFFLUENT INTO TWO PATHS THAT UTILIZE THE ENTIRE LIQUID VOLUME OF THE TANK FOR EFFICIENT GREASE SEPARATION. THE CALIBRATED OPENINGS GREATLY REDUCE EFFLUENT TURBULENCE. THE EFFLUENT ENTERS THE MAIN CHAMBER WITHOUT DISTURBING THE EXISTING GREASE OR SEDIMENT LAYERS.

THE INTEGRAL AIR RELIEF / ANTI-SIPHON IN THE TOP OF THE OUTLET DIFFUSER ALLOWS PRESSURE STABILIZATION WITHIN THE UNIT DURING OPERATION. THE BOTTOM OF THE OUTLET DIFFUSER ALLOWS ONLY EFFLUENT WHICH IS FREE OF GREASE TO EXIT THE TANK. IT CAN EASILY BE ATTACHED TO ANY OF THE THREE OUTLETS PROVIDED TO EASE JOBSITE PIPING LAYOUTS.

OPTIONS:
- H20 RATED CAST IRON COVER: 20,000LB CAPACITY
- PEDESTRIAN RATED COVER: 2,000 LB. CAPACITY
- TELEGUIDE FIELD ADJUSTABLE RISERS FOR EXTENDING COVERS TO GRADE
- MALE PIPE THREAD CONNECTIONS
- 6" PLAIN END PIPE CONNECTIONS (INLET/OUTLET "B" ONLY)
- HIGH WATER ANCHOR KIT
- CLAMPING COLLAR KIT




## SEWER VIEWER POLYETHYLENE WASTEWATER SAMPLING PORT

NO SCALE SCHIER MODEL NUMBER SV24-06

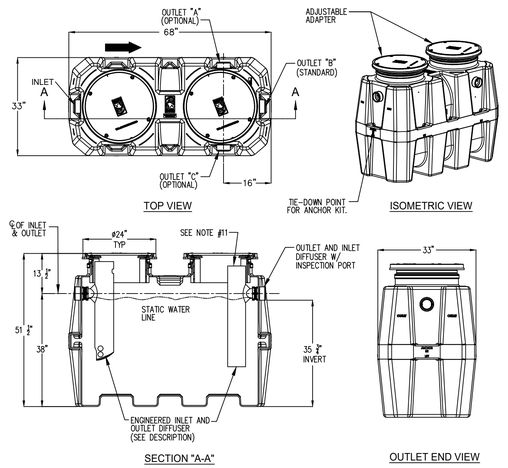
SPECIFICATIONS
1. 6" INLET/OUTLET SCH. 40, PLAIN END (NO-HUB)
2. MAX FLOW RATE: 100 GPM
3. LIQUID CAPACITY: 275 GALLONS
4. MAX GREASE CAPACITY: 1,076 LBS. (147.4 GALLONS)
5. MAX SOLIDS/SEDIMENT CAPACITY: 105 GALLONS
6. UNIT WEIGHT W/STD. COVERS: 230 LBS.
7. MAXIMUM OPERATING TEMPERATURE 190° F CONTINUOUS.
8. HIGHWAY RATED COVER: 16,000 LB. CAPACITY (STANDARD)
9. SEAMLESS MOLDED POLYETHYLENE TANK.

NOTES
1. LISTED BY IAPMO TO ASME GREASE INTERCEPTOR STANDARD #A112.14.3 AND CSA B481.1
2. FACTORY INSTALLED BUILT-IN FLOW CONTROL.
3. FOR GRAVITY DRAINAGE APPLICATIONS ONLY. DO NOT USE FOR PRESSURE APPLICATIONS.
4. SEAMLESS HIGH DENSITY POLYETHYLENE TANK.
5. UNIT SUPPLIED WITH BUILT-IN ADAPTER(S) FOR UP TO 6" OF ADJUSTABILITY. ADDITIONAL RISER(S) AVAILABLE FOR DEEPER BURIAL DEPTH.
6. COVER PLACEMENT ALLOWS FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
7. VENT NOT REQUIRED UNLESS PER LOCAL CODE.
8. NARROW FOOTPRINT ALLOWS CLEARANCE THROUGH DOORWAYS AND DOWN STAIRWELLS.
9. ENGINEERED INLET AND OUTLET DIFFUSERS ARE REMOVABLE TO INSPECT/CLEAN PIPING.
10. FOR ON-THE-FLOOR OR BURIED APPLICATIONS.
11. INTEGRAL AIR RELIEF / ANTI-SIPHON / SAMPLING ACCESS.
12. THREE OUTLET OPTIONS FOR EASY ROUGH IN. UNIT SHIPPED WITH OUTLET DIFFUSER IN OUTLET "B".

DIFFUSION FLOW TECHNOLOGY
THE INLET DIFFUSER SPLITS INCOMING EFFLUENT INTO TWO PATHS THAT UTILIZE THE ENTIRE LIQUID VOLUME OF THE TANK FOR EFFICIENT GREASE SEPARATION. THE CALIBRATED OPENINGS GREATLY REDUCE EFFLUENT TURBULENCE. THE EFFLUENT ENTERS THE MAIN CHAMBER WITHOUT DISTURBING THE EXISTING GREASE OR SEDIMENT LAYERS. THE INTEGRAL AIR RELIEF / ANTI-SIPHON IN THE TOP OF THE OUTLET DIFFUSER ALLOWS PRESSURE STABILIZATION WITHIN THE UNIT DURING OPERATION. THE BOTTOM OF THE OUTLET DIFFUSER ALLOWS ONLY EFFLUENT WHICH IS FREE OF GREASE TO EXIT THE TANK. IT CAN EASILY BE ATTACHED TO ANY OF THE THREE OUTLETS PROVIDED TO EASE JOBSITE 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 HIGH DENSITY POLYETHYLENE. INTERCEPTOR SHALL BE FURNISHED FOR ABOVE OR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS AND THREE OUTLET OPTIONS. INTERCEPTOR FLOW RATE SHALL BE 100 GPM. INTERCEPTOR GREASE CAPACITY SHALL BE 1,076 LBS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 2,000 LBS. LOAD CAPACITY.

OPTIONS:
- H20 RATED CAST IRON COVER: 20,000LB CAPACITY
- PEDESTRIAN RATED COVER: 2,000 LB. CAPACITY
- TELEGUIDE FIELD ADJUSTABLE RISERS FOR EXTENDING COVERS TO GRADE
- MALE PIPE THREAD CONNECTIONS
- 6" PLAIN END PIPE CONNECTIONS (INLET/OUTLET "B" ONLY)
- HIGH WATER ANCHOR KIT
- CLAMPING COLLAR KIT




## 100 GPM POLYETHYLENE GREASE INTERCEPTOR

NO SCALE SCHIER MODEL NUMBER GB-250

### DISCLAIMER

HSE'S GRINDER PUMP DETAILS, GREASE INTERCEPTOR AND SMALL DIAMETER FORCE MAIN SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER SHEETS.

REVISED 3/7/2019

NOTE:
CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PURCHASING ANY EQUIPMENT FOR THIS PROJECT TO VERIFY PROPER INTERPRETATION OF SPECIFICATIONS AND CONSTRUCTION PLANS.


ENGINEER
SAMCO
11905 LAKESIDE DRIVE
FISHERS, INDIANA 46038
(317) 577-1150



THESE DRAWINGS AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF SANITARY MANAGEMENT & ENGINEERING COMPANY, INC. AND ARE NOT TO BE USED OR REPRODUCED IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF SANITARY MANAGEMENT & ENGINEERING COMPANY, INC.

© 2019 BY SANITARY MANAGEMENT & ENGINEERING COMPANY, INC.


| REVISIONS | | | | |
|---|---|---|---|---|
| BY | DATE | CHECK | NO. | BY | DATE | CHECK |
| | | | 1 | TK | 1/7/2019 | TK |
| | | | 2 | MHF | | |

UPDATED FOR 2017
CHANGED 4" to 6" ON SPEC NOTE 1. FOR 100 GPM POLYETHYLENE GREASE INTERCEPTOR DETAIL
UPDATED EXTERIOR INTERCEPTOR/SEPARATOR DETAIL FROM MCCREARY

DRAWN
CHECKED
CERTIFIED


SAMCO
Sanitary Management & Engineering Company, Inc.
11905 Lakeside Drive
Fishers, IN 46038
317-577-1150 Fax 317-577-3642


JOB NO. –
SCALE: N/A

PROJECT
PREPARED FOR Hamilton Southeastern Utilities, INC.

TITLE
GREASE INTERCEPTOR SANITARY SEWER DETAILS

SHEET