

EXCAVATION

1. Surrounding soil must be undisturbed soil or well compacted engineering fill.
2. Measure the width and length of the tank and excavate a hole that is a minimum of 18" greater than the tank on all sides.
3. Depth of excavation shall be 12" deeper than tank bottom.
4. After the excavation is complete create a well compacted support layer of aggregate mixture so that ground supporting tank is a minimum of 12" above native soil. Aggregate mixture must be 3/4" size clean rock or sand, with no fines. For compaction, use a flat plate compactor to tamper rock or sand evenly for 15 minutes.

UNIT INSTALLATION

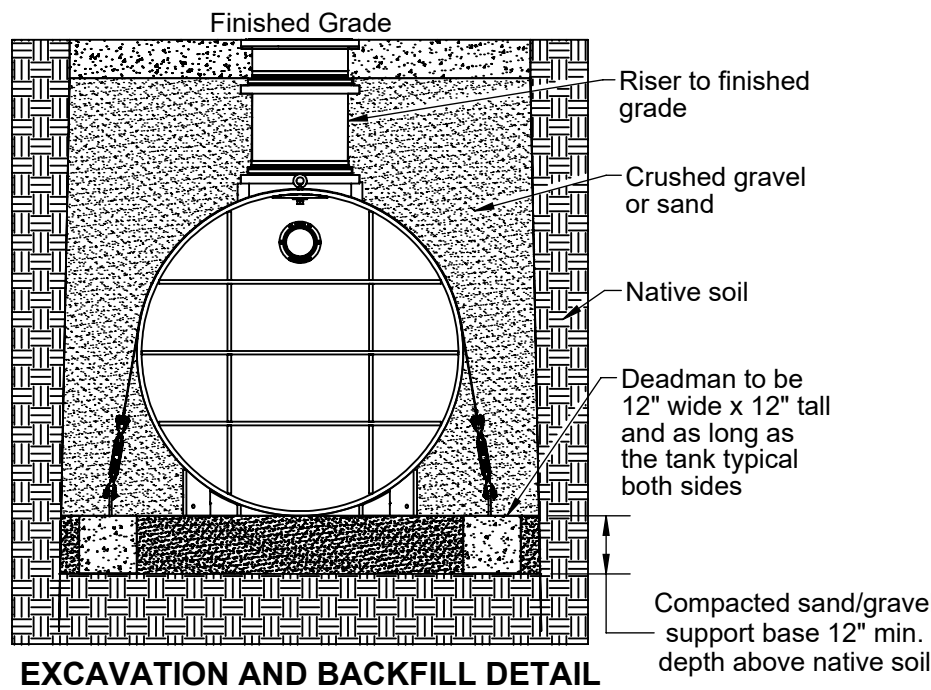
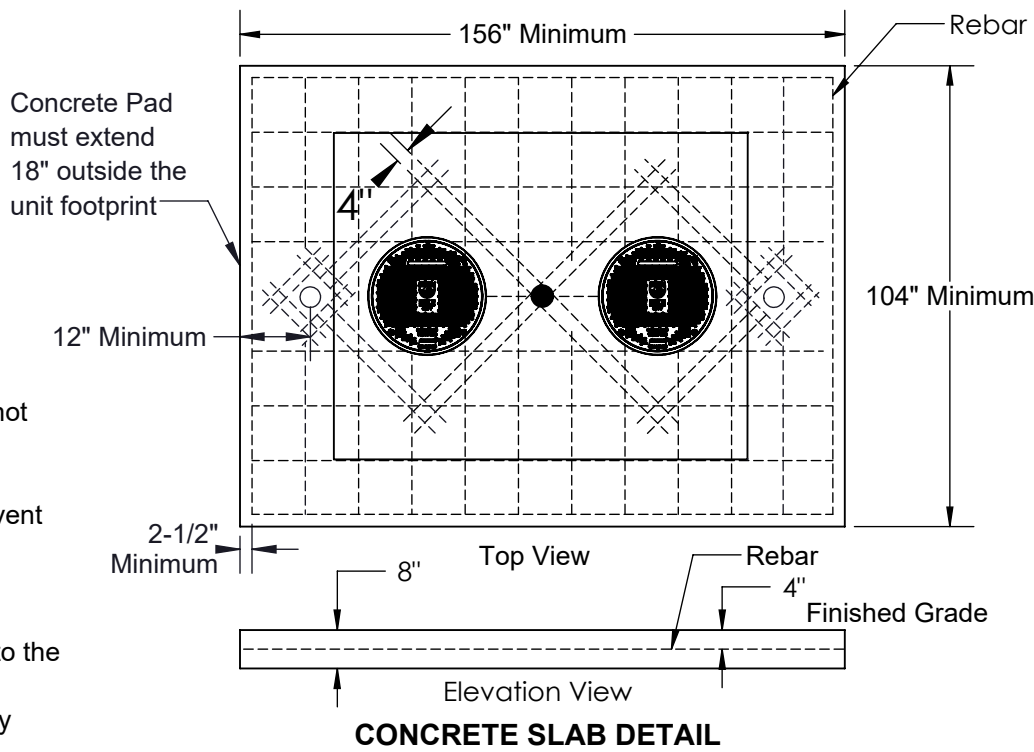
1. Lower and center the unit into hole using Striem lifting lug kit (included). Do not use chains or accessways to move the unit.
2. Ensure tops of risers are level with finished grade.
3. Fill unit with water before backfilling to stabilize unit, check for leaks, and prevent float out during backfilling

BACKFILLING & FINISHED CONCRETE SLAB

1. Before backfilling and pouring of slab secure covers and risers (if necessary) to the unit.
2. Backfill evenly all around tank using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
3. When backfilling ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
4. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
5. H20 rated slab required.
6. Concrete to be 28 day compressive strength to 4000 PSI with 6±1% air entrainment.
7. NO. 4 rebar (Ø 1/2") grade 60 steel per ASTM A615: connected with tie wire.
8. Rebar to be 2 1/2" from edge of concrete.
9. Rebar spacing 12" grid. 4" spacing around access openings.

DEADMAN ANCHORING

1. Deadmen should be constructed as noted on Excavation and Backfill detail.
2. Deadmen should be 12" wide x 12" tall and equal to the length of the entire unit.
3. Each deadman should have 4 anchor points for connection to a 3,500 lbs. rated turnbuckle.
4. Lay the deadmen parallel with the unit and ensure that it is outside the shadow of the tank.
5. Nylon straps rated to 3,333 lbs. each should be connected to a turnbuckle on each side. Turnbuckles should be secured to the deadmen anchor points on each side of the tank such that the tank is held down.



SPECIFICATIONS

1. Max flow rate: 314 GPM
2. Liquid capacity: 1500 Gallons (200.5 cu. ft.)
3. Oil capacity: 610 Gallons
4. Solids/sediment capacity: 486 Gallons
5. Unit weight w/std. covers: 1700 lbs.
6. H20 rated pickable cast iron covers. (16,000 lbs)
7. Maximum operating temperature 140°F continuous

NOTES

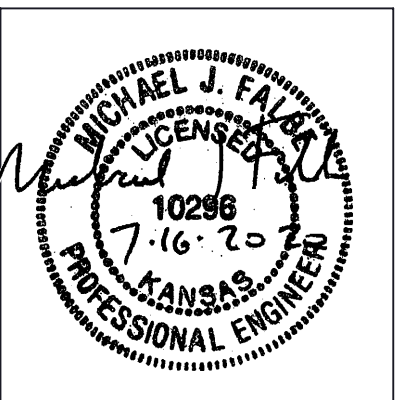
1. 1" thick high density polyethylene walls.
2. Unit supplied with built-in adapter(s) for up to 6" of adjustability. Additional riser(s) available for deeper burial depth.
3. For buried applications.
4. Lifting lug set included for easy install.

ENGINEER SPECIFICATION GUIDE

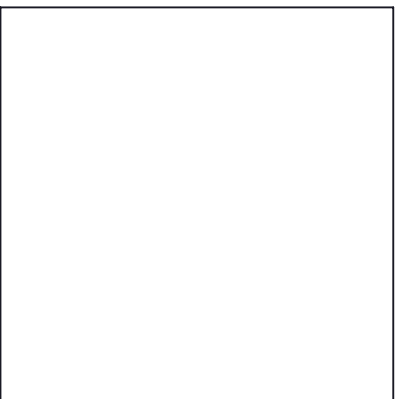
Striem oil separator model OS-1500-120-JCW shall be lifetime guaranteed and made in USA of High Density Polyethylene with minimum 1" uniform wall thickness. Separator shall be furnished for below grade installation with field adjustable riser system. Separator flow rate shall be 314 GPM. Separator oil capacity shall be 610 gallons. Sand capacity shall be 486 gallons. Cover shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

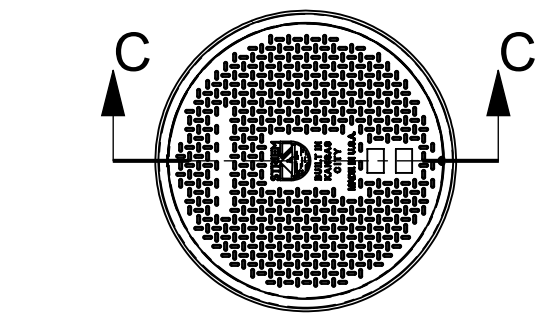
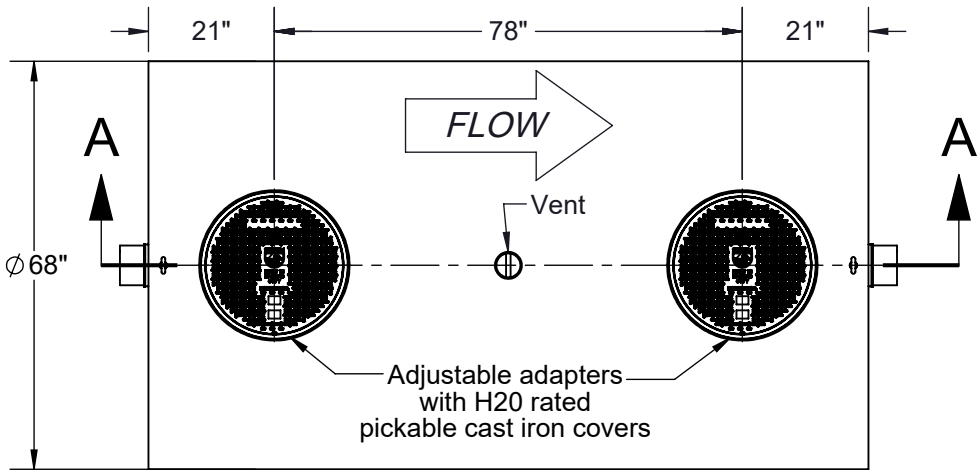
The OS-1500-120-JCW has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.



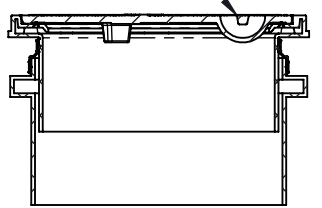
PE STAMP
(For H20 Slab Design Only)



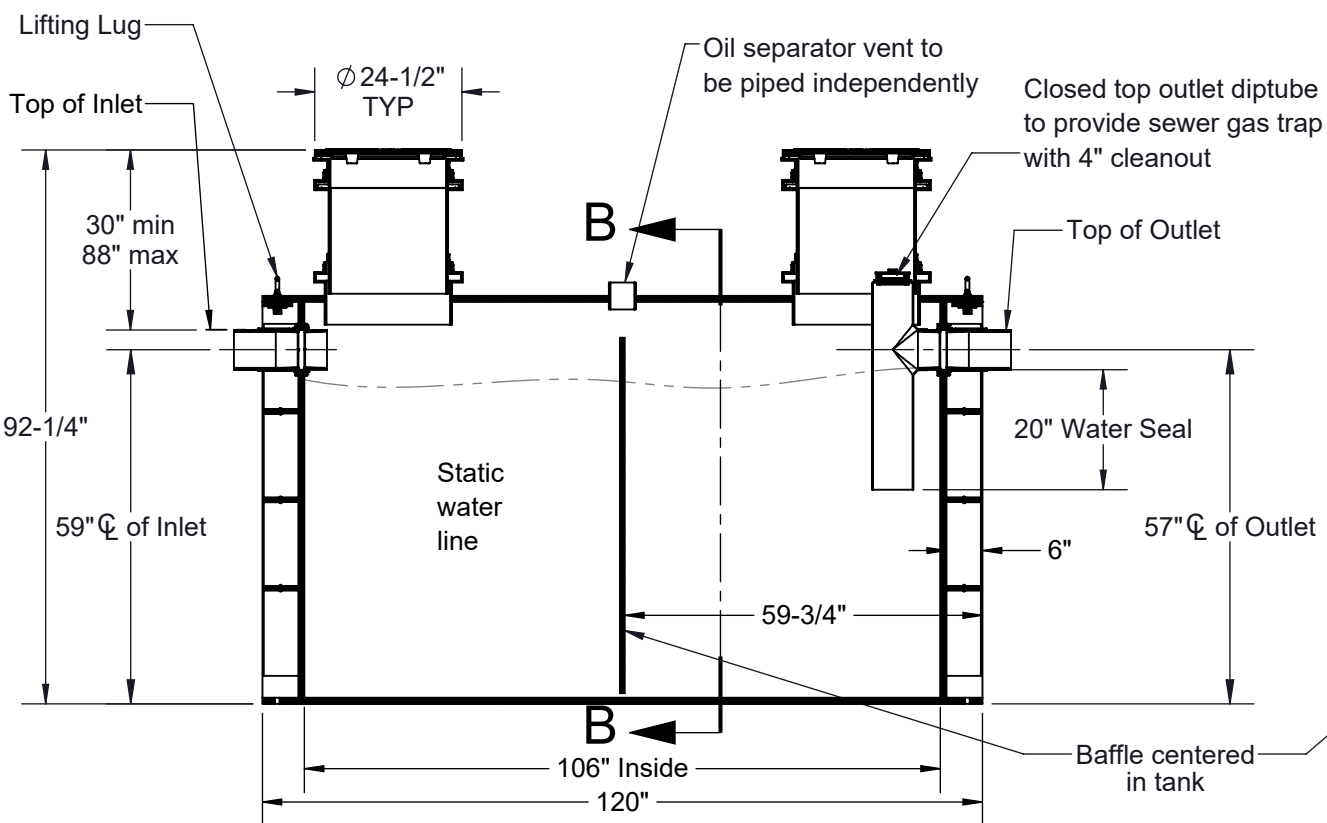
Hold Down Kit Required
Unless Sealed by Kansas
Professional Engineer



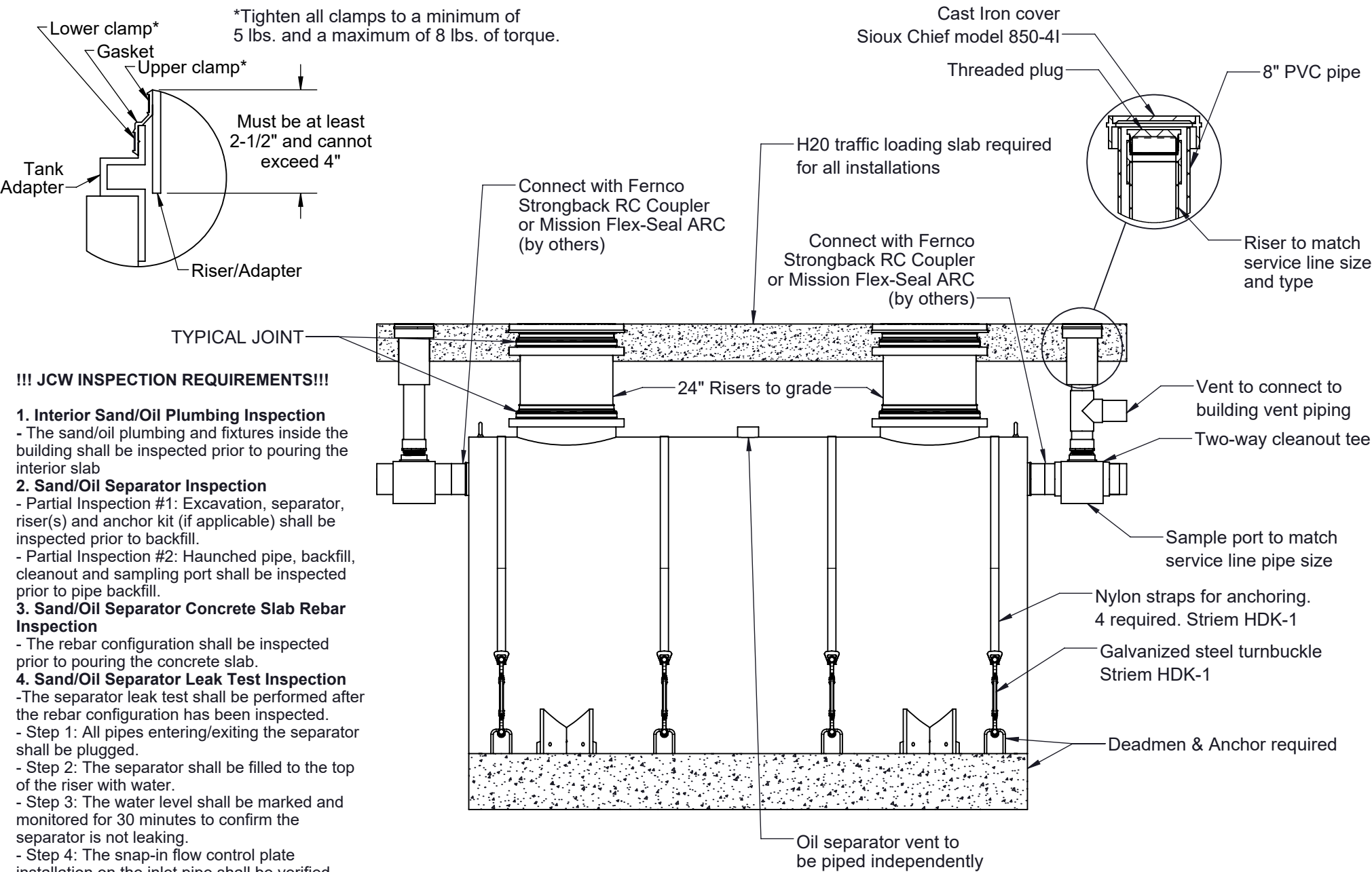
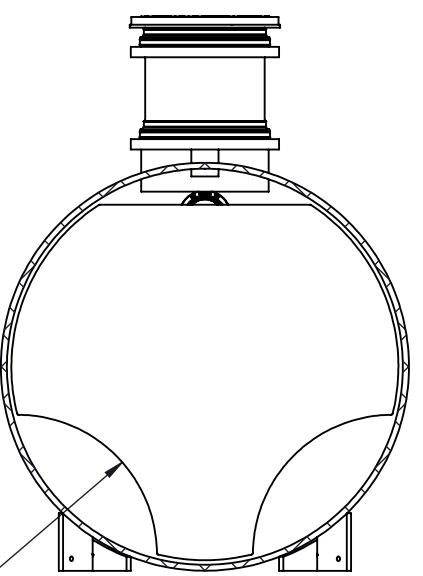
Pickable cast iron cover



SECTION C-C



SECTION B-B



!!! JCW INSPECTION REQUIREMENTS!!!

1. **Interior Sand/Oil Plumbing Inspection**
- The sand/oil plumbing and fixtures inside the building shall be inspected prior to pouring the interior slab
2. **Sand/Oil Separator Inspection**
- Partial Inspection #1: Excavation, separator, riser(s) and anchor kit (if applicable) shall be inspected prior to backfill.
- Partial Inspection #2: Haunched pipe, backfill, cleanout and sampling port shall be inspected prior to pipe backfill.
3. **Sand/Oil Separator Concrete Slab Rebar Inspection**
- The rebar configuration shall be inspected prior to pouring the concrete slab.
4. **Sand/Oil Separator Leak Test Inspection**
- The separator leak test shall be performed after the rebar configuration has been inspected.
- Step 1: All pipes entering/exiting the separator shall be plugged.
- Step 2: The separator shall be filled to the top of the riser with water.
- Step 3: The water level shall be marked and monitored for 30 minutes to confirm the separator is not leaking.
- Step 4: The snap-in flow control plate installation on the inlet pipe shall be verified.

!!! ALL JCW INSPECTIONS SHALL BE REQUESTED ONLINE THROUGH THE WWW.MYGVERNMENTONLINE.ORG PORTAL !!!

ALL PIPE EMBEDMENT IN ACCORDANCE WITH JCW STANDARDS

PROPRIETARY AND CONFIDENTIAL

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MODEL NUMBER: OS-1500-120-JCW

DESCRIPTION:

POLYETHYLENE OIL SEPARATOR
314 GPM
1500 GALLON CAPACITY
JOHNSON COUNTY WASTEWATER DETAIL

DWG BY: MJ

DATE: 07/16/2020

REV: 0

SPECIFICATION SHEET

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Made in the U.S.A

