



# INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

1455 Kleppe Lane ♦ Sparks, NV 89431-6467 ♦ (775) 359-4712 ♦ Fax (775) 359-7424  
E-mail: [haws@hawsco.com](mailto:haws@hawsco.com) ♦ website: [www.hawsco.com](http://www.hawsco.com)

No. 2077777(20)

## Model 6518FR

**NOTE TO INSTALLER:** Please leave this information with the Maintenance Department.

### LIMITED WARRANTY

HAWS warrants that this specific product is guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. HAWS liability under this warranty shall be discharged by furnishing without charge F.O.B. HAWS Factory any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to Haws within a reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the Company, prepaid, for inspection. HAWS will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents, except upon written authority from HAWS, Sparks, Nevada. HAWS will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that HAWS shall not be liable for general, special, or consequential damages claimed to arise under the contract of sale. The drinking fountain manufactured by HAWS is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended.

**NO OTHER WARRANTIES EXPRESSED OR IMPLIED ARE AUTHORIZED,  
PROVIDED OR GIVEN BY HAWS.**

**SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS  
MODEL PLEASE CALL:**

**TECHNICAL SUPPORT: 1-800-766-5612**

**FOR CUSTOMER SERVICE: 1-888-640-4297**

**RECOMMENDED TOOLS:** Pipe joint sealant, screwdriver, level, 5/64" hex key wrench, 12" adjustable wrench, 10" pipe wrench, 5/16", 3/4", 9/16", 1/2" and 7/16" open end wrenches.

**LOCATION OF UNIT:** The Model 6518FR is suitable for all season out-door use where temperatures may drop well below freezing. This model is used with HAWS outdoor drinking fountains and jug fillers. When installing this unit, local state or federal codes should be adhered to.

**SUPPLY LINE:** The minimum recommended line size is 1/2" IPS with 30-90 psi (2-6 ATM) flowing pressure. Where sediment or mineral content in water is a problem, an inlet filter is recommended.

**PLUMBING CONNECTIONS:** Inlet valve is 1/2" IPS male, which must be buried below the frost line. Waste outlet is female 1-1/4" outside diameter tailpiece.

## INSTALLATION PROCEDURE

### GENERAL NOTES:

1. For all plastic push-in type fitting connections, only connect NSF-61 copper or plastic tubing. Stainless steel or glass tubing is not recommended. The following assembly instructions must be followed to ensure a watertight connection:
  - a. Cut tubing square and clean.
  - b. Mark from end of tube the length of insertion (See table below).
  - c. Push tube into the fitting until it bottoms out.
  - d. To remove, depress collet and pull tubing out.

Tube Sizes	O.D. Tolerance	Insertion Depth
1/4"	±.005"	11/16"
3/8"	±.005"	3/4"
1/2"	±.005"	7/8"

Refer to installation drawing for details. Use pipe joint sealant on all water connections.

**STEP 1:** Trench for water supply and waste drain lines. The hole should be deep enough to accommodate the PVC casing and a minimum of 10 cubic feet of porous fill (gravel). Additional porous fill and drain pipe may be required due to local ground conditions. Provide a shut-off valve for maintenance. Install the 1/2" supply line and 1-1/4" sanitary drain, (see Installation Drawing sheet 2 of 3), excavation detailed drawing. Cut the PVC pipe to fit desired bury depth, but no less than 40" long.

**STEP 2:** Attach the supply hose assembly to the inlet elbow below the frost line (See Installation Drawing sheet 3 of 3). Lower the PVC pipe into place. Then with PVC primer and glue attach the "Y" fitting to the pipe. Pull the supply assembly up through the casing using the attached metal rod. Flush the line before attaching the valve.

## INSTALLATION PROCEDURE

- STEP 3:** Attach the valve assembly to the hose assembly outside of the casing. **Pressure test for leaks:** Using the metal rod as a handle, lower the complete valve assembly into casing. Make sure that the supply hose coils into the bottom of the casing without any kinks. Keep the hose coiled underneath the valve (see Installation Drawing sheet 1 of 3). Cap the casing and back-fill the trench. Keep the valve casing vertical at all times.
- STEP 4:** Locate the fountain anchor bolts in the proper position. Care must be taken to insure clearance within the pedestal for the valve casing branch arm waste drain line. Pour concrete into forms and finish. Let concrete set for at least 24 hours.
- STEP 5:** Place the fountain onto the mounting pad and secure in place. Pull the valve assembly out of the valve casing. Feed the supply tubing from the fountain down into the valve casing branch arm. Reach into the top of the casing and pull the tubing out. Tubing should now run from pedestal operator down through valve casing arm, then up valve casing to ground level. Measure and cut the tubing to length, allowing enough tubing, to reach the bottom of valve casing. Connect tubing from fountain to the push-in type fitting outlet of the valve. Connect the waste line to the fountain.
- STEP 6:** Feed the two 5/32" O.D. tubing from the valve up to the fountain through the valve casing branch arm. Connect the tubing with label to the push button. Secure with the compression nut (hand tight only). Leave the end of the attached breather tube open to the air.
- STEP 7:** Turn on the supply line shutoff valve. Test the 6518FR valve using the fountain push button. Check for leaks. Refer to trouble shooting section for any malfunction.
- STEP 8:** Lower the complete valve assembly back into the casing as in Step 3. Test the flow once again and make sure that the line water between valve and fountain drains back to porous fill. Make sure the tubing has no low spots, which might collect water causing ice plugs in freezing weather.
- STEP 9:** When the fountain operates satisfactorily, install the access plates. Place a piece of insulation foam (provided) inside the casing as shown on installation drawing. To complete installation, cap valve casing and replace valve box cover.

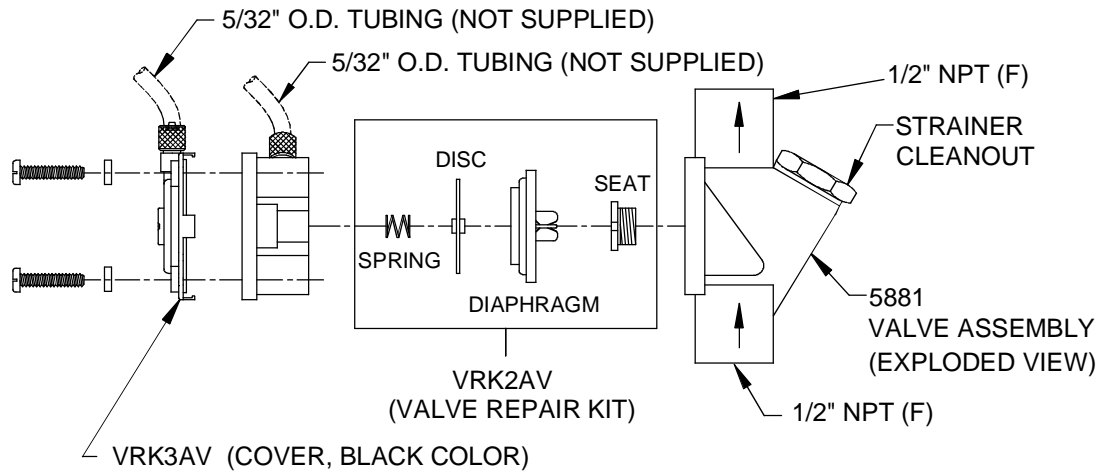
## TROUBLESHOOTING

PROBLEM	REPAIR CHECKLIST
1. Bubbler Flow Control.	1. Adjust pressure regulator: <ol style="list-style-type: none"> <li>a. Loosen the locknut.</li> <li>b. Rotate the knob clockwise to increase flow or counterclockwise to reduce flow.</li> <li>c. Tighten the locknut.</li> <li>d. Lower the valve assembly back into the casing.</li> <li>e. Repeat the above steps until the bubbler flow is correct.</li> <li>f. Replace pressure regulator if necessary.</li> </ol>
2. Insufficient bubbler flow.	2. <ol style="list-style-type: none"> <li>a. Check that the main shut-off valve is wide open.</li> <li>b. Verify minimum 30 psi supply pressure.</li> <li>c. Clean inlet strainer screen located in the valve body.</li> <li>d. Adjust Pressure Regulator (Refer to Step 1).</li> </ol>
3. No flow.	3. <ol style="list-style-type: none"> <li>a. Check for leaks in the air tubing going from the push button to the valve.</li> <li>b. Make sure the air tubing compression nuts are hand tight.</li> <li>c. Disconnect air tube from push button assembly. Blow into tube to verify valve function. Replace valve if necessary.</li> <li>d. Disconnect air tube from push button. Place finger over air outlet. Push button to test diaphragm. Tighten diaphragm cap screws. Replace diaphragm if necessary.</li> </ol>
4. Continued insufficient or varied height of bubbler flow.	4. <ol style="list-style-type: none"> <li>a. Check for kinks in the tubing.</li> <li>b. Adjust Pressure Regulator (Refer to Step 1).</li> </ol>

<b>TROUBLESHOOTING</b>	
<b>PROBLEM</b>	<b>REPAIR CHECKLIST</b>
5. Continuous bubbler flow.	5. a. Insure that push button is not obstructed and springs back to normal position. b. Remove four screws, which secure plastic diaphragm block to brass valve body. Pull plastic and rubber diaphragm assembly out of valve body. Locate tiny hole in rubber diaphragm just under lip of plastic part. Clean debris from this hole. Inspect valve seat for grooves. If seat is worn, replace with stainless steel seat (newer models) or replace valve (older models, integral brass seat). c. If valve seat was OK and diaphragm holes were free from debris, inspect rubber button located at center of floating steel disc in valve diaphragm block assembly. If button is worn, turn disc over or replace disc. d. If diaphragm and seats are in good condition, stretch spring slightly. Spring is located behind floating stainless steel plate. e. Insure that air bleed port on valve plastic block assembly is not plugged.

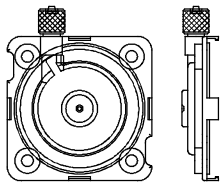
For more information about Haws products, see our website: [www.hawsc.com](http://www.hawsc.com)

# PARTS BREAKDOWN

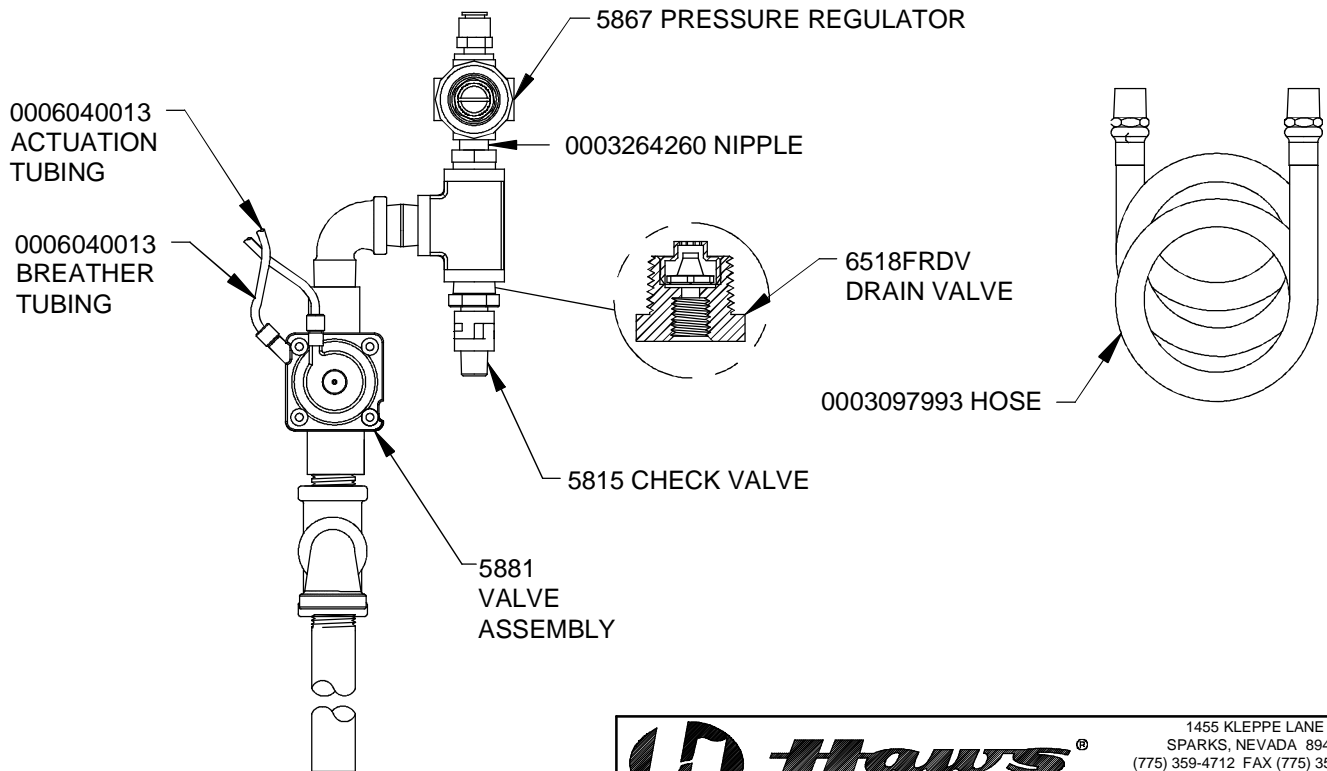


**NOTE:**

1 THIS BLACK COVER IS NOT INTERCHANGEABLE WITH GRAY COVERS USED ON OLDER 5881 VALVES. (SCREWS & WASHERS NOT SUPPLIED WITH COVERS).

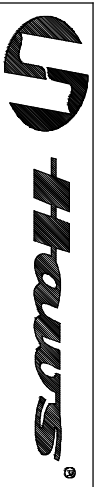
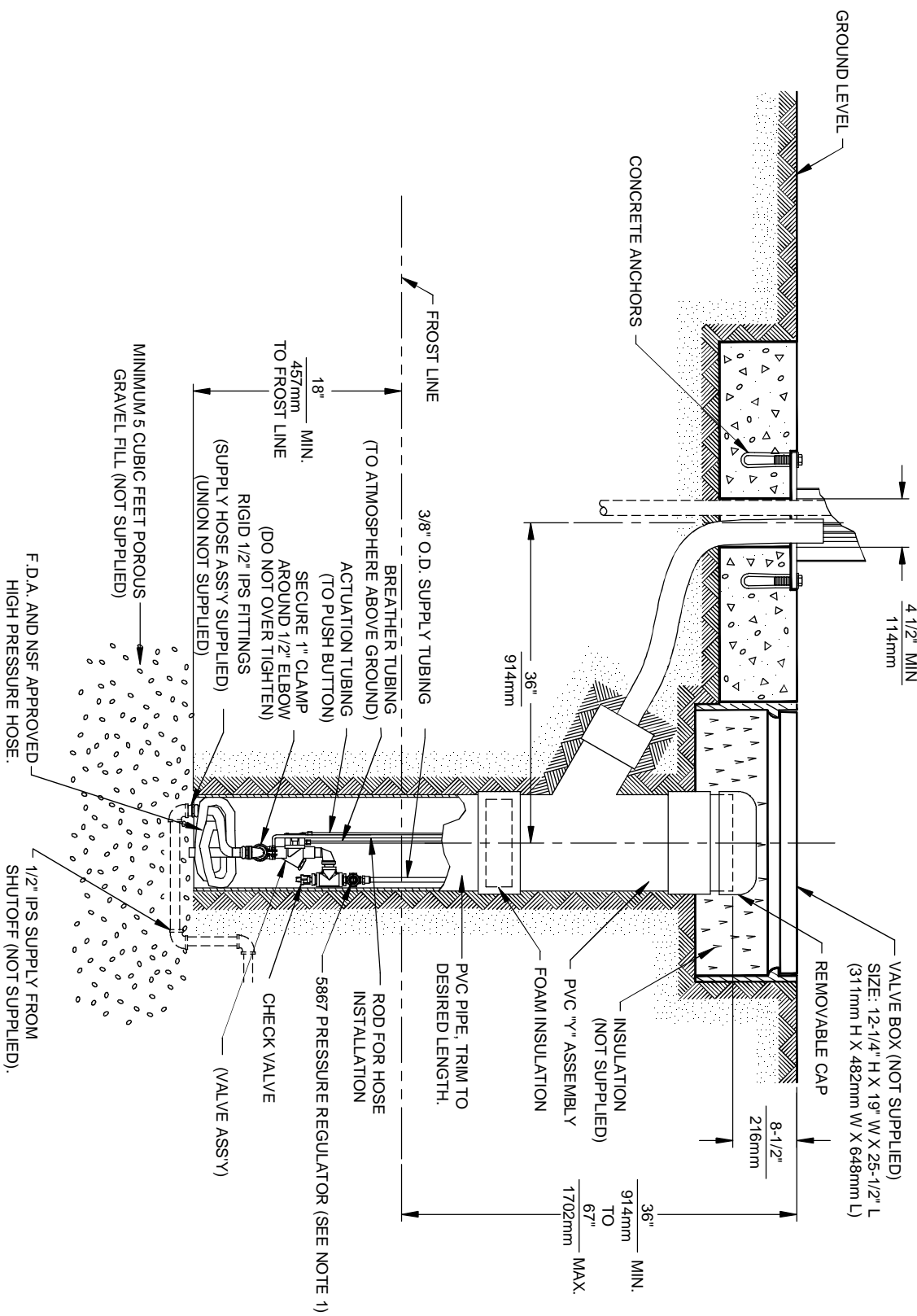


VRK3AV 1  
DETAIL



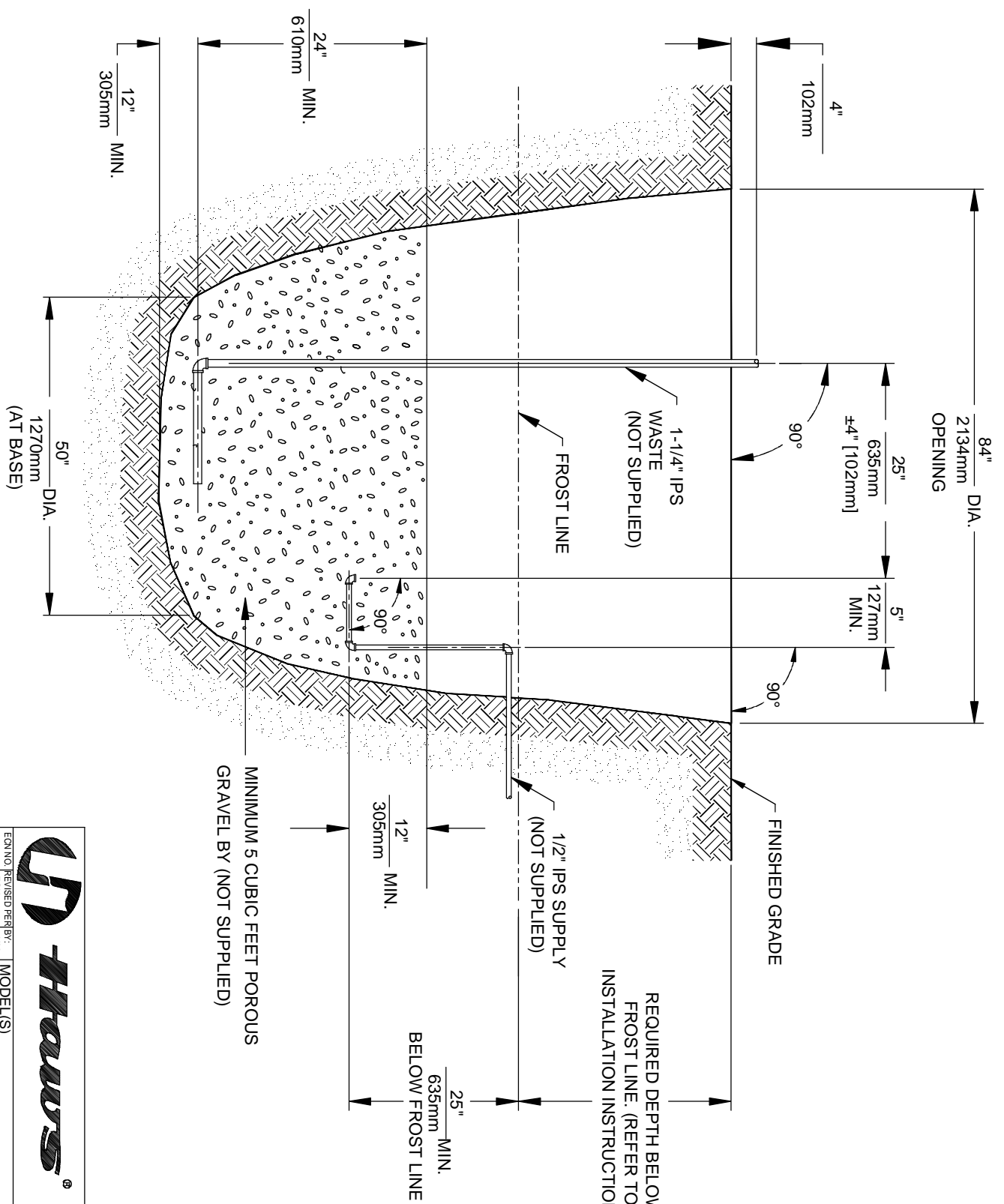
			1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWSCO.COM WEBSITE: WWW.HAWSCO.COM		
ECN NO.	REVISED PER	BY	MODEL(S)		PART NUMBER
	ECN: 5009	HM	6518FR		000207777
DRAWN	DATE	CHKD	VALVE, FREEZE RESISTANT, SINGLE		REVISION
M.D.	04/26/06	RVH			20
APPROVED	DATE	SCALE:	DRAWING TYPE:	SIZE:	SHEET
FV	07/15/15	1:1.85	PARTS BREAKDOWN	A	1 OF 1

WHEN ORDERING PARTS PLEASE SPECIFY MODEL NUMBER.



1455 KLEPPE LANE  
 SPARKS, NEVADA 89431  
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 E-MAIL: HAWS@HAWSCO.COM  
 WEBSITE: WWW.HAWSCO.COM

EON NO. REVISED PER BY:	MODEL(S)	PART NUMBER
CON. 5009	6518FR	000207777.D
DATE: 12/90	VALVE, FREEZE RESISTANT, SINGLE	REVISION
DATE: 07/15/05	SCALE: 1:13	20
DATE: 07/15/05	SCALE: 1:13	SHEET 1 OF 3



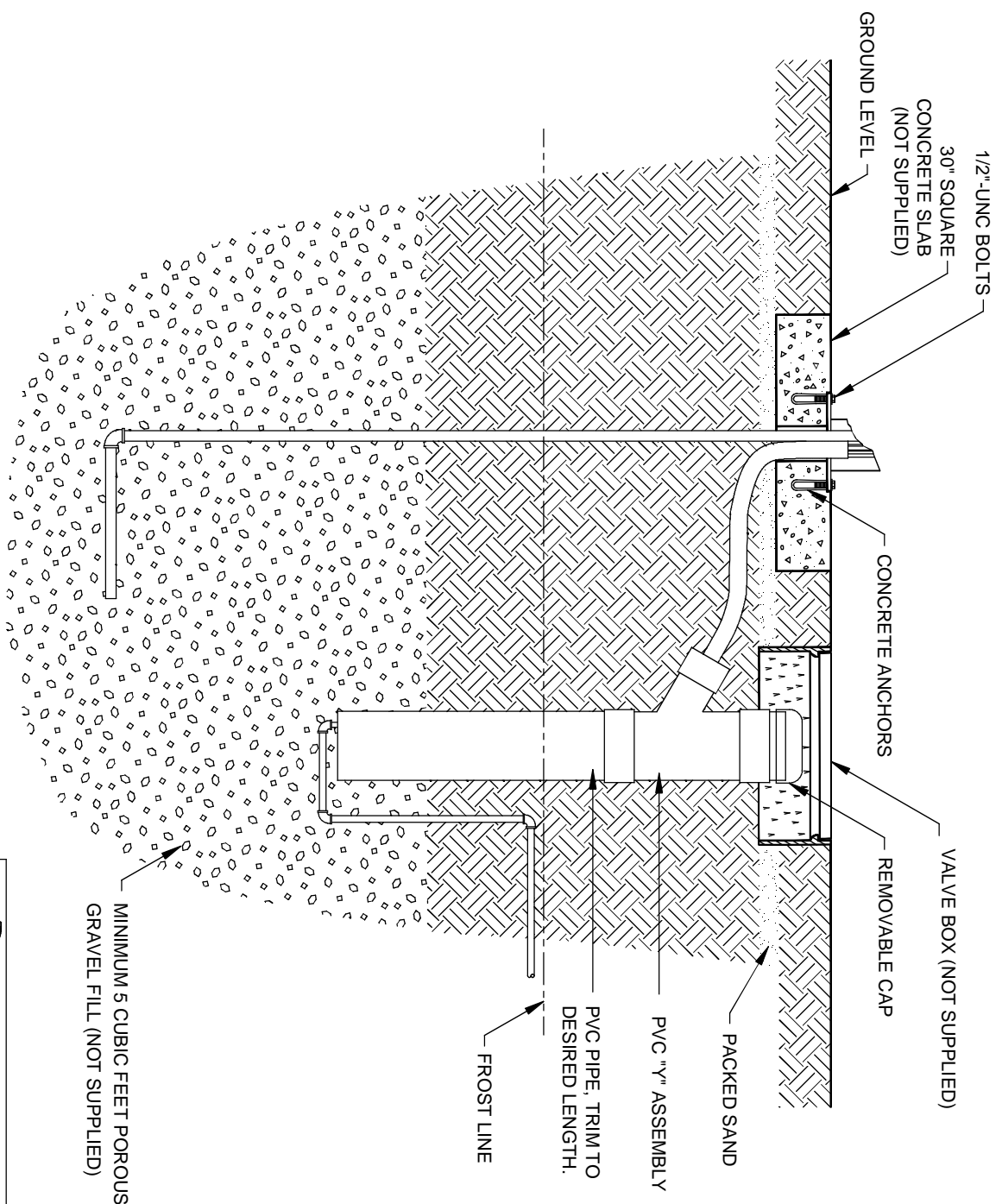
REQUIRED DEPTH BELOW FROST LINE. (REFER TO INSTALLATION INSTRUCTIONS).



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 WEBSITE: WWW.HAWSCO.COM

ECONO REVISED PER: BY: MODEL(S)		PART NUMBER	
ECN: 5009	HM	0002077777.D	
DATE: 12/90	CHKD:	REVISION	
APPROVED: FV	RVH	20	
DATE: 07/15/15	SCALE: 1/2"	DRAWING TYPE: INSTALLATION	
	SIZE: A	SHEET 2 OF 3	





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 (775) 359-4712 FAX (775) 359-7424  
 E-MAIL: HAWS@HAWS.CO.COM  
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ENGINEER	REVISED PER BY:	MODEL(S)	PART NUMBER
DRAWN:	EDN:5009	6518FR	0002077777.D
DATE:	CHKD:	VALVE, FREEZE RESISTANT, SINGLE	REVISION
07/15/15	07/15/15		20
APPROVED:	SCALE:	DRAWING TYPE:	SHEET
F.V.	1:24		3 OF 3