



INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

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E-mail: haws@hawsco.com ♦ website: www.hawsco.com

No. 0002077777 (24)

Model 6518FR

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

LIMITED WARRANTY

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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 outdoor 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 drainpipe 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

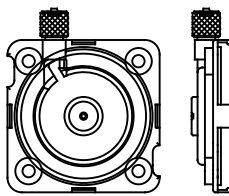
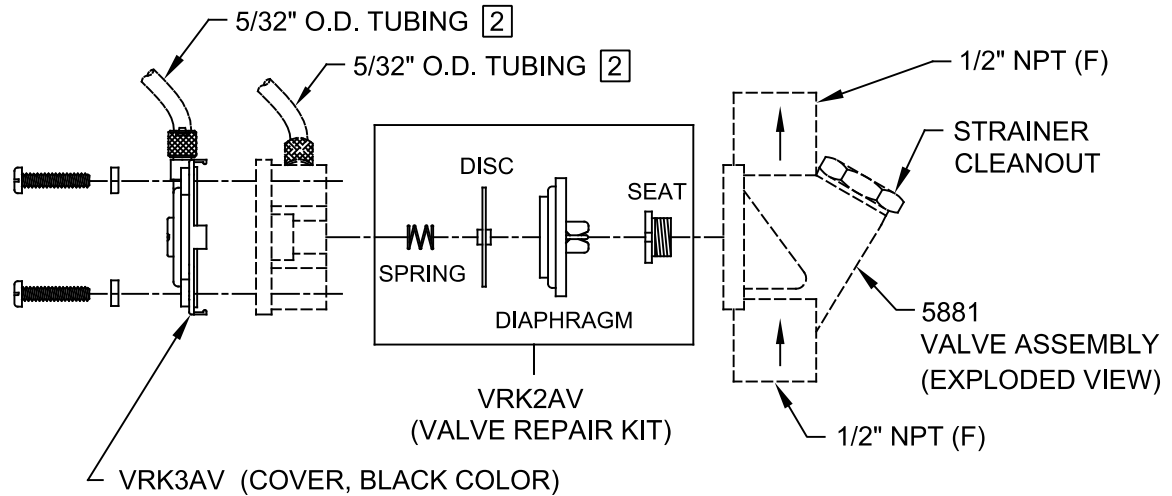
- STEP 3:** Attach the valve assembly to the hose assembly outside of the casing. **Pressure test for leaks:** Using the metal rod as a handle, lower the complete valve assembly into casing. Make sure that the supply hose coils into the bottom of the casing without any kinks. Keep the hose coiled underneath 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"> Pull knob out. Rotate the knob clockwise to increase flow or counterclockwise to reduce flow. Push knob in to lock adjustment. Lower the valve assembly back into the casing. Repeat the above steps until the bubbler flow is correct. Replace pressure regulator if necessary.
2. Insufficient bubbler flow.	2. <ol style="list-style-type: none"> Check that the main shut-off valve is wide open. Verify minimum 30 psi supply pressure. Clean inlet strainer screen located in the valve body. Adjust Pressure Regulator (Refer to Step 1).
3. No flow.	3. <ol style="list-style-type: none"> Check for leaks in the air tubing going from the push button to the valve. Make sure the air tubing compression nuts are hand tight. Disconnect air tube from push button assembly. Blow into tube to verify valve function. Replace valve if necessary. Disconnect air tube from push button. Place finger over air outlet. Push button to test diaphragm. Tighten diaphragm cap screws. Replace diaphragm if necessary.
4. Continued insufficient or varied height of bubbler flow.	4. <ol style="list-style-type: none"> Check for kinks in the tubing. Adjust Pressure Regulator (Refer to Step 1).

TROUBLESHOOTING	
PROBLEM	REPAIR CHECKLIST
5. Continuous bubbler flow.	5. a. Ensure 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 the diaphragm and seats are in good condition, stretch spring slightly. Spring is located behind floating stainless-steel plate. e. Ensure that air bleed port on valve plastic block assembly is not plugged.

For more information about Haws products, see our website:www.hawsc.com

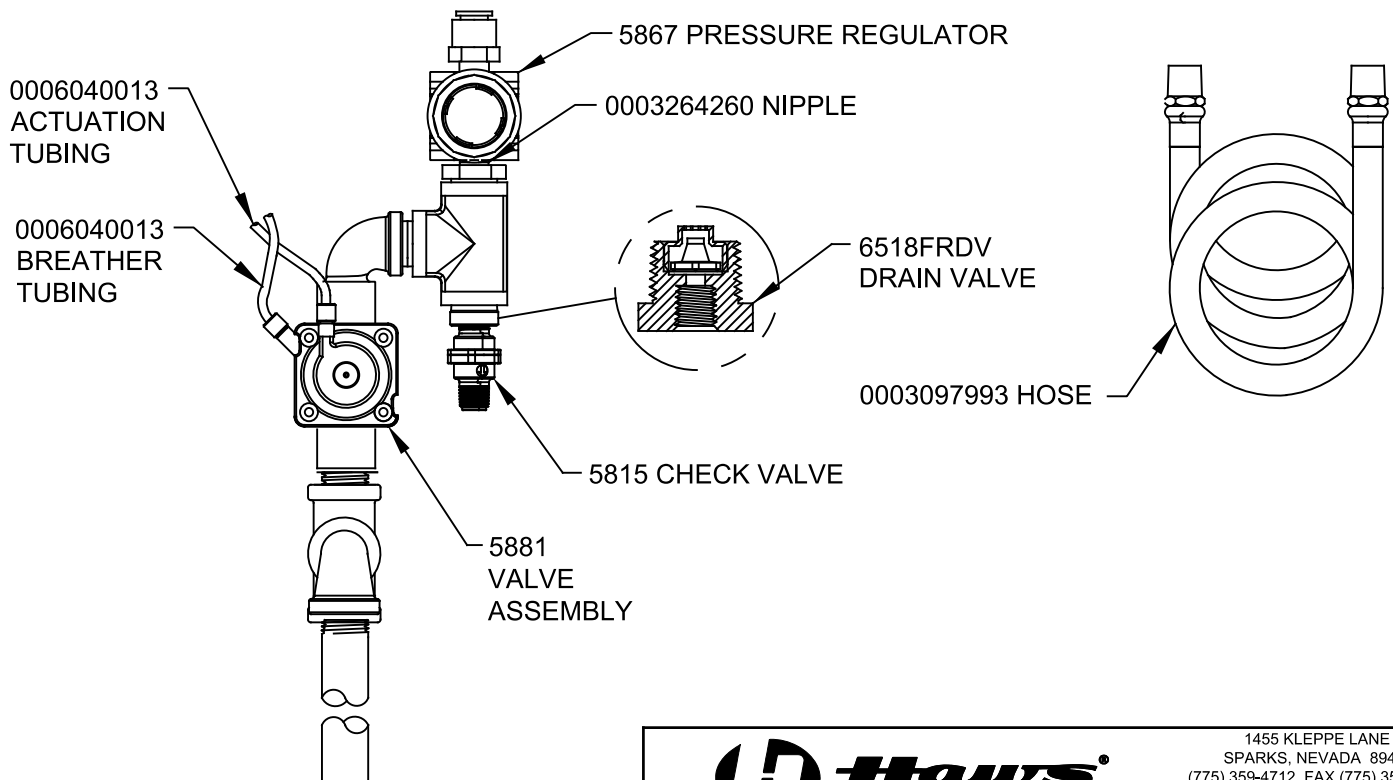
PARTS BREAKDOWN




VRK3AV [1]
DETAIL

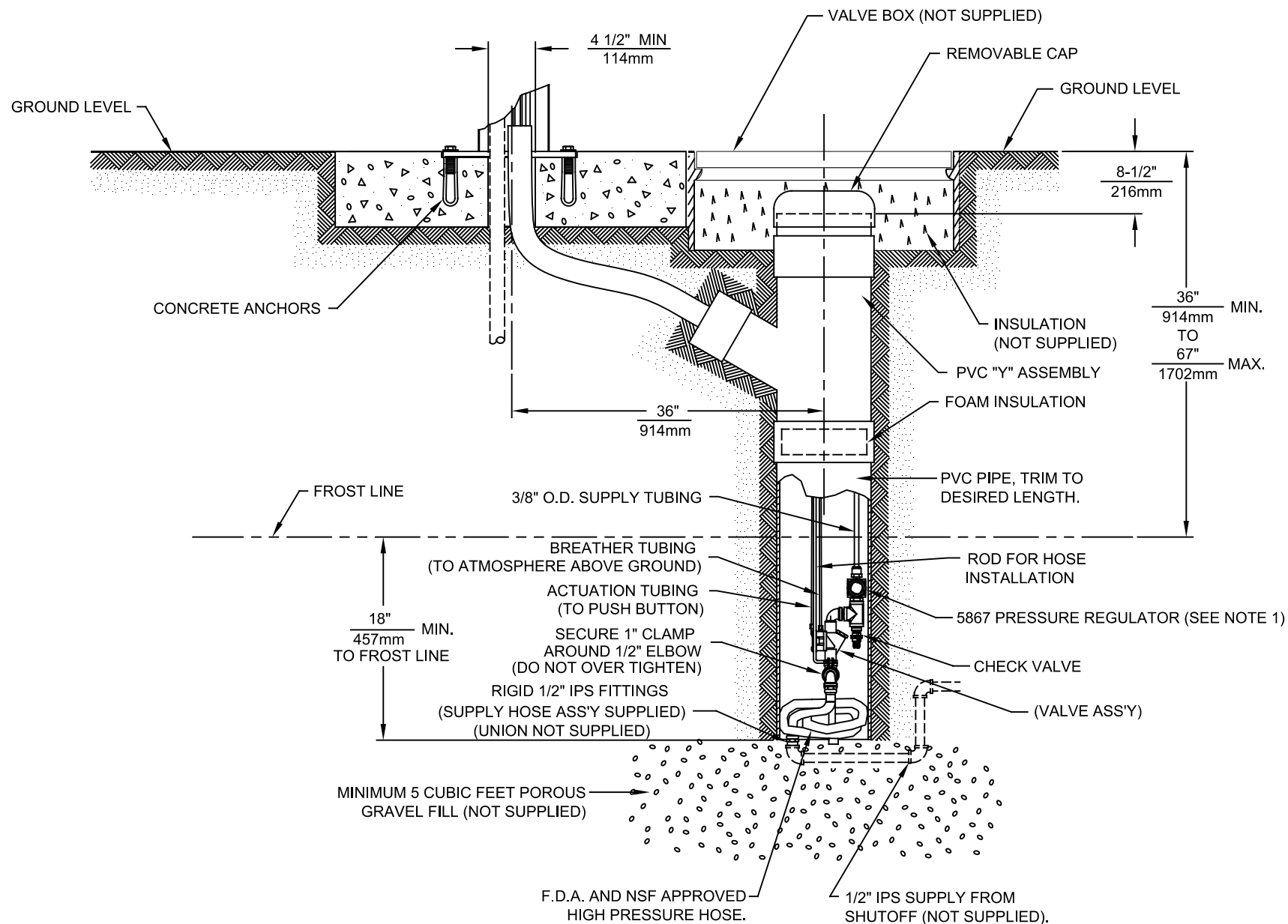
NOTES:


- [1] THIS BLACK COVER IS NOT INTERCHANGEABLE WITH GRAY COVERS USED ON OLDER 5881 VALVES. (SCREWS & WASHERS NOT SUPPLIED WITH COVERS).
- [2] 0006040013 TUBING (NOT SUPPLIED IN ANY VALVE REPAIR KITS OR REPLACEMENTS; MUST BE ORDERED SEPARATELY).



WHEN ORDERING PARTS PLEASE SPECIFY MODEL NUMBER.

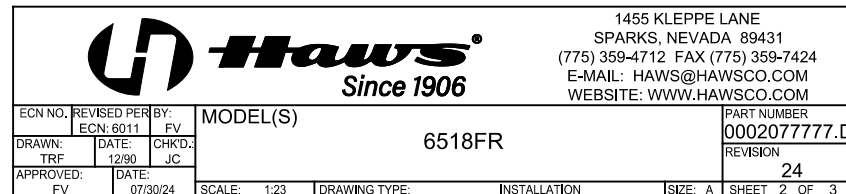
 Haws Since 1906				1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWS.CO.COM WEBSITE: WWW.HAWS.CO.COM	
				MODEL(S)	PART NUMBER
ECN NO.	REVISED PER	BY	6518FR		0002077777
DRAWN	DATE	CHKD			
M.D.	04/26/06	JC			REVISION
APPROVED	DATE				24
FV	07/30/24				
SCALE: 1:1.85		DRAWING TYPE: PARTS BREAKDOWN		SIZE: A SHEET 1 OF 1	

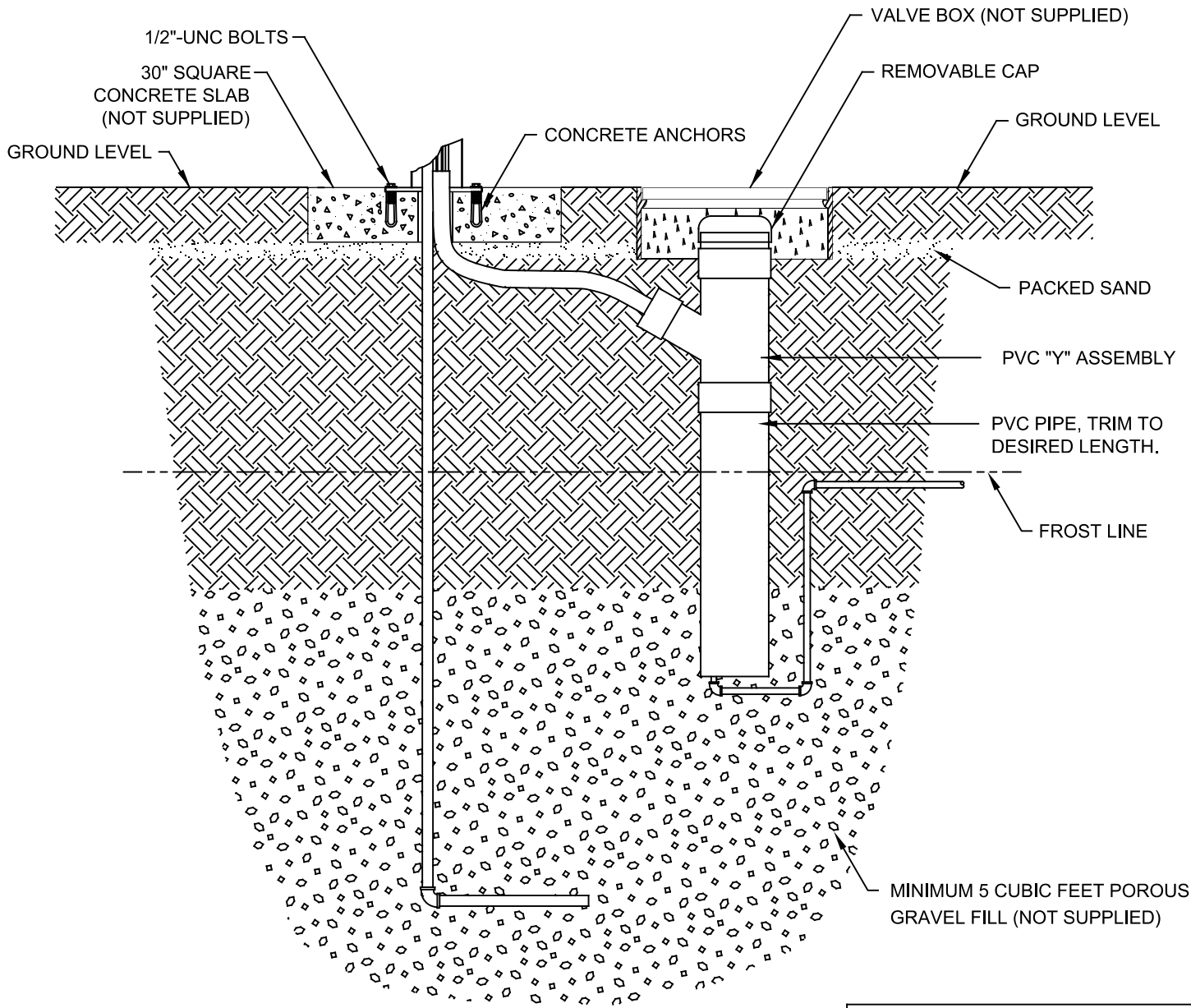


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ECN NO.	REVISED PER	BY:	MODEL(S)	PART NUMBER
ECN: 6011	FV			0002077777.D
DRAWN:	DATE:	CHKD.		REVISION
TRF	12/90	JC		24
APPROVED:	DATE:		SCALE: 1:13	DRAWING TYPE: INSTALLATION
FV	07/30/24			SIZE: A SHEET 1 OF 3





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ECN NO.	REVISED PER	BY:	MODEL(S)	PART NUMBER
ECN: 6011	FV			0002077777.D
DRAWN:	DATE:	CHK'D:		REVISION
TRF	12/90	JC	6518FR	24
APPROVED:	DATE:	SCALE:	DRAWING TYPE:	INSTALLATION
FV	07/30/24	1:23		
				SHEET 3 OF 3