

DEMOLITION NOTES

- ① COORDINATE DEMOLITION WORK WITH THE OWNER, PROTECT ALL EXISTING WORK, BUILDINGS, PIPING, EQUIPMENT, UTILITIES, ETC. TO REMAIN.
- ② REPAIR OR REPLACE ANY DAMAGED ITEMS DUE TO DEMOLITION AND/OR CONSTRUCTION.
- ③ COORDINATE INGRESS/EGRESS AND HAUL ROUTES WITH THE CONTRACTOR PRIOR TO START OF WORK.
- ④ THIS PLAN VIEW IS SHOWN FOR INFORMATION AND ASSISTANCE. THE CONTRACTOR IS RESPONSIBLE FOR INDIVIDUAL DIMENSIONS, ELEVATIONS, TAKE-OFFS AND ESTIMATIONS WITH REGARD TO DEMOLITION, PREPARATION, AS WELL AS MEANS AND METHODS OF CONSTRUCTION AND SHALL VISIT THE SITE AS REQUIRED TO ACCOMPLISH THE WORK, AND TO BECOME FAMILIAR WITH SCOPE AND SERVICES OF WORK REQUIRED.
- ⑤ THE OWNER SHALL IDENTIFY, REMOVE AND SALVAGE ANY ITEMS AS DESIRED PRIOR TO CONTRACTOR MOVE-IN.
- ⑥ COORDINATE DEMOLITION AND POINTS OF CONNECTION WITH EXISTING UTILITIES, AND PIPING SYSTEMS IN THE FIELD TO ALLOW NEW WORK TO BE ACCOMPLISHED IN THE BEST FASHION.
- ⑦ CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND HAULING OFF OF ALL MECHANICAL EQUIPMENT, PIPING, VALVING, AND THE LIKE, AND LEGALLY DISPOSING OF ALL SUCH MATERIAL FROM THE SITE AS PART OF THE OVERALL BASE BID.
- ⑧ LEAVE ADEQUATE PLUMBING LENGTH DURING DEMO FOR POC TO NEW PLUMBING.

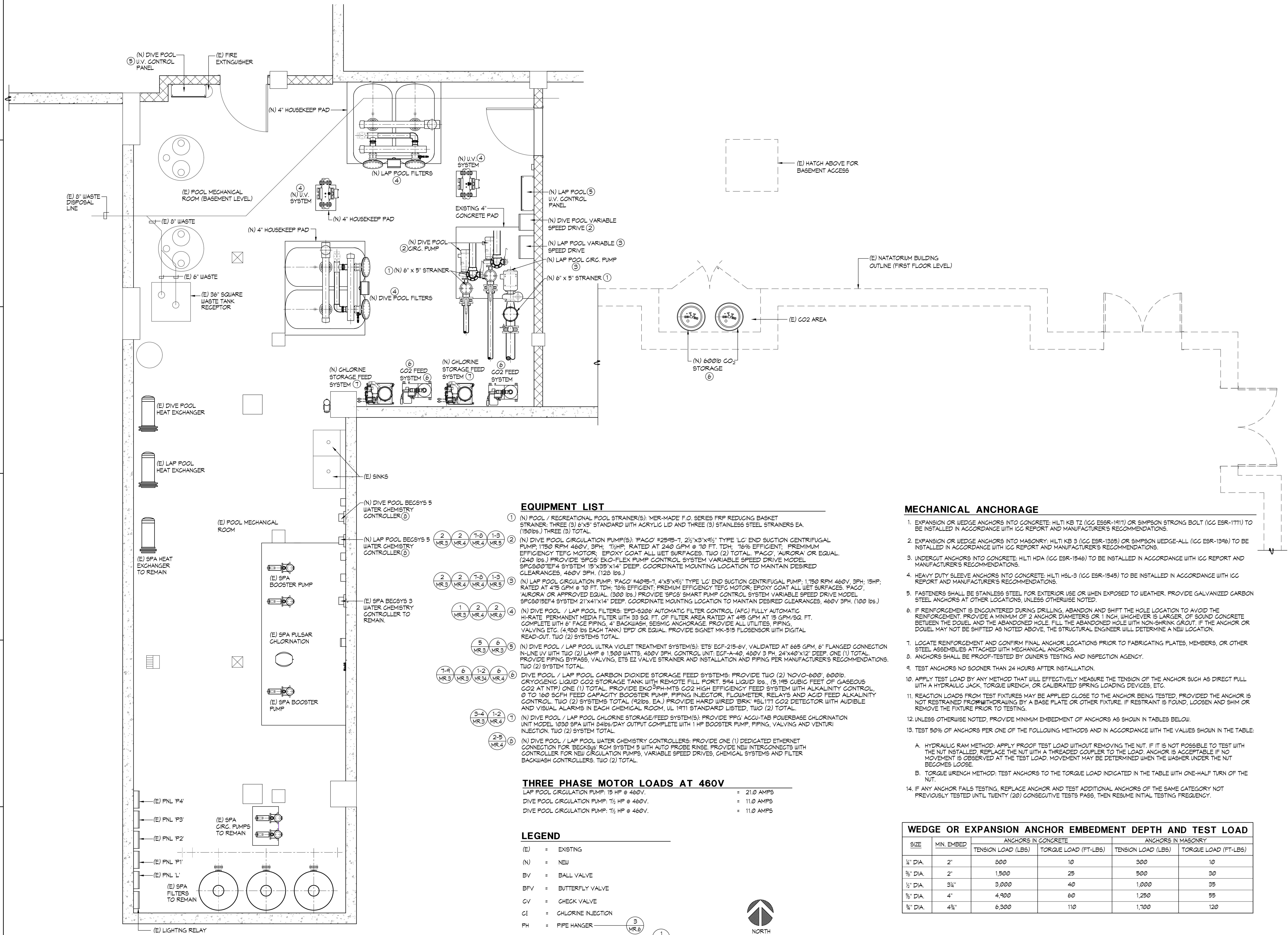
LEGEND

- (E) = EXISTING
- BFV = BUTTERFLY VALVE
- CV = CHECKED VALVE
- BV = BALL VALVE



EXISTING POOL MECHANICAL ROOM DEMOLITION PLAN

3/8"=1'-0"



EQUIPMENT LIST

- ① (N) POOL / RECREATIONAL POOL STRAINER(S): MER-MADE F.O. SERIES FRP REDUCING BASKET STRAINER, THREE (3) 6"x5" STANDARD WITH ACRYLIC LID AND THREE (3) STAINLESS STEEL STRAINERS EA. (150lbs.) THREE (3) TOTAL.
- ② (N) DIVE POOL CIRCULATION PUMP(S): PACO #2595-T, 2 1/2"x3"x9 1/2" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1750 RPM 460V, 3PH, 7 1/2HP, RATED AT 240 GPM @ 10 FT. TDH, 76% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES; TWO (2) TOTAL. PACO, AURORA OR EQUAL. (240 lbs.) PROVIDE SPCS EKO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPC500TEF4 SYSTEM 15"x95"x14" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (120 lbs.)
- ③ (N) LAP POOL CIRCULATION PUMP: PACO #4045-T, 4"x5"x9 1/2" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP, 1750 RPM 460V, 3PH, 15HP, RATED AT 475 GPM @ 10 FT. TDH, 76% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. PACO, AURORA OR APPROVED EQUAL. (300 lbs.) PROVIDE SPCS SMART PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPC500TEF4 SYSTEM 21"x41"x14" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (100 lbs.)
- ④ (N) DIVE POOL / LAP POOL FILTERS: EPD-5206 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 33 SQ. FT. OF FILTER AREA RATED AT 445 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 4" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (4500 lbs EACH TANK) EPD OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT, TWO (2) SYSTEMS TOTAL.
- ⑤ (N) DIVE POOL / LAP POOL ULTRA VIOLET TREATMENT SYSTEM(S): ETS ECF-215-6V, VALIDATED AT 665 GPM, 6" FLANGED CONNECTION IN-LINE UV WITH TWO (2) LAMP @ 1500 WATTS, 480V 3PH, CONTROL UNIT: ECF-A-40, 480V 3 PH, 24"x40"x12" DEEP, ONE (1) TOTAL. PROVIDE PIPING BYPASSES, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS, TWO (2) SYSTEM TOTAL.
- ⑥ DIVE POOL / LAP POOL CARBON DIOXIDE STORAGE FEED SYSTEMS: PROVIDE TWO (2) NOVO-600, 600lb. CRYOGENIC LIQUID CO2 STORAGE TANK WITH REMOTE FILL PORT, 594 LIQUID lbs., (5,195 CUBIC FEET OF GASEOUS CO2 AT NTP) ONE (1) TOTAL. PROVIDE EKO-3PH-MTS CO2 HIGH EFFICIENCY FEED SYSTEM WITH ALKALINITY CONTROL, 0 TO 160 SCFH FEED CAPACITY BOOSTER PUMP, PIPING INJECTOR, FLOWMETER, RELAYS AND ACID FEED ALKALINITY CONTROL, TWO (2) SYSTEMS TOTAL. (920lbs. EA.) PROVIDE HARD WIRED BRK HSLTTI CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS IN EACH CHEMICAL ROOM, UL 1911 STANDARD LISTED, TWO (2) TOTAL.
- ⑦ (N) DIVE POOL / LAP POOL CHLORINE STORAGE/FEED SYSTEM(S): PROVIDE FPG ACCU-TAB POWERBASE CHLORINATION UNIT MODEL 1230 SPA WITH 94lbs/DAY OUTPUT COMPLETE WITH 1 HP BOOSTER PUMP, PIPING, VALVING AND VENTURI INJECTION, TWO (2) SYSTEM TOTAL.
- ⑧ (N) DIVE POOL / LAP POOL WATER CHEMISTRY CONTROLLERS: PROVIDE ONE (1) DEDICATED ETHERNET CONNECTION FOR BECKS'S RCM SYSTEM 5 WITH AUTO PROBE RINSE PROVIDE NEW INTERCONNECTS WITH CONTROLLER FOR NEW CIRCULATION PUMPS, VARIABLE SPEED DRIVES, CHEMICAL SYSTEMS AND FILTER BACKWASH CONTROLLERS, TWO (2) TOTAL.

THREE PHASE MOTOR LOADS AT 460V

LAP POOL CIRCULATION PUMP: 15 HP @ 460V.	= 21.0 AMPS
DIVE POOL CIRCULATION PUMP: 7 1/2 HP @ 460V.	= 11.0 AMPS
DIVE POOL CIRCULATION PUMP: 7 1/2 HP @ 460V.	= 11.0 AMPS

LEGEND

- (E) = EXISTING
- (N) = NEW
- BV = BALL VALVE
- BFV = BUTTERFLY VALVE
- CV = CHECK VALVE
- CI = CHLORINE INJECTION
- PH = PIPE HANGER
- PG/VG = VACUUM / PRESSURE GAUGE

MECHANICAL ANCHORAGE

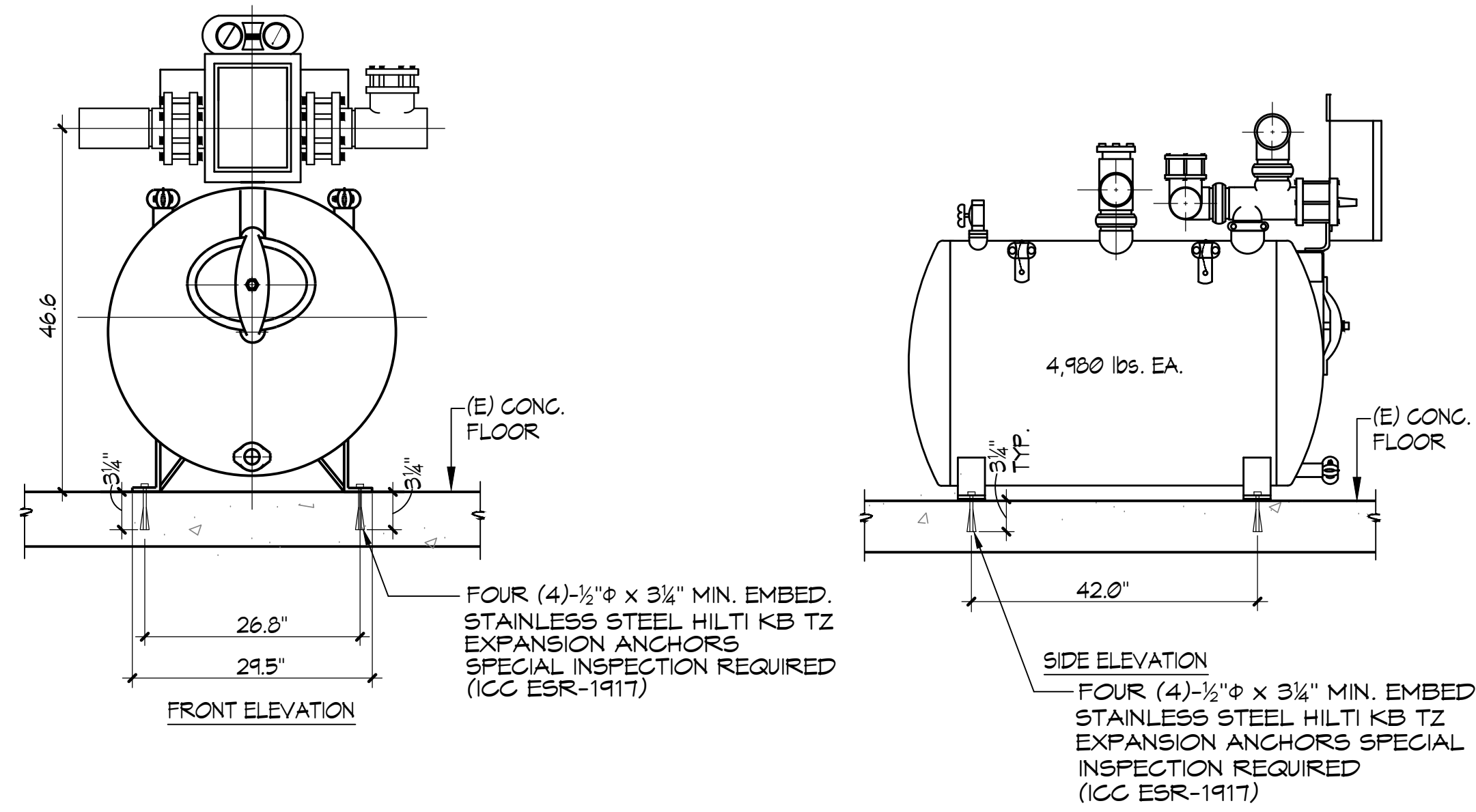
1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ (ICC ESR-1911) OR SIMPSON STRONG BOLT (ICC ESR-1711) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB 3 (ICC ESR-1305) OR SIMPSON WEDGE-ALL (ICC ESR-1346) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. UNDERCUT ANCHORS INTO CONCRETE: HILTI HDA (ICC ESR-1546) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
4. HEAVY DUTY SLEEVE ANCHORS INTO CONCRETE: HILTI HSL-3 (ICC ESR-1545) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
5. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOVEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOVEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
7. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
8. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
9. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
10. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
11. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
12. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
13. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE.
 - A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
14. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

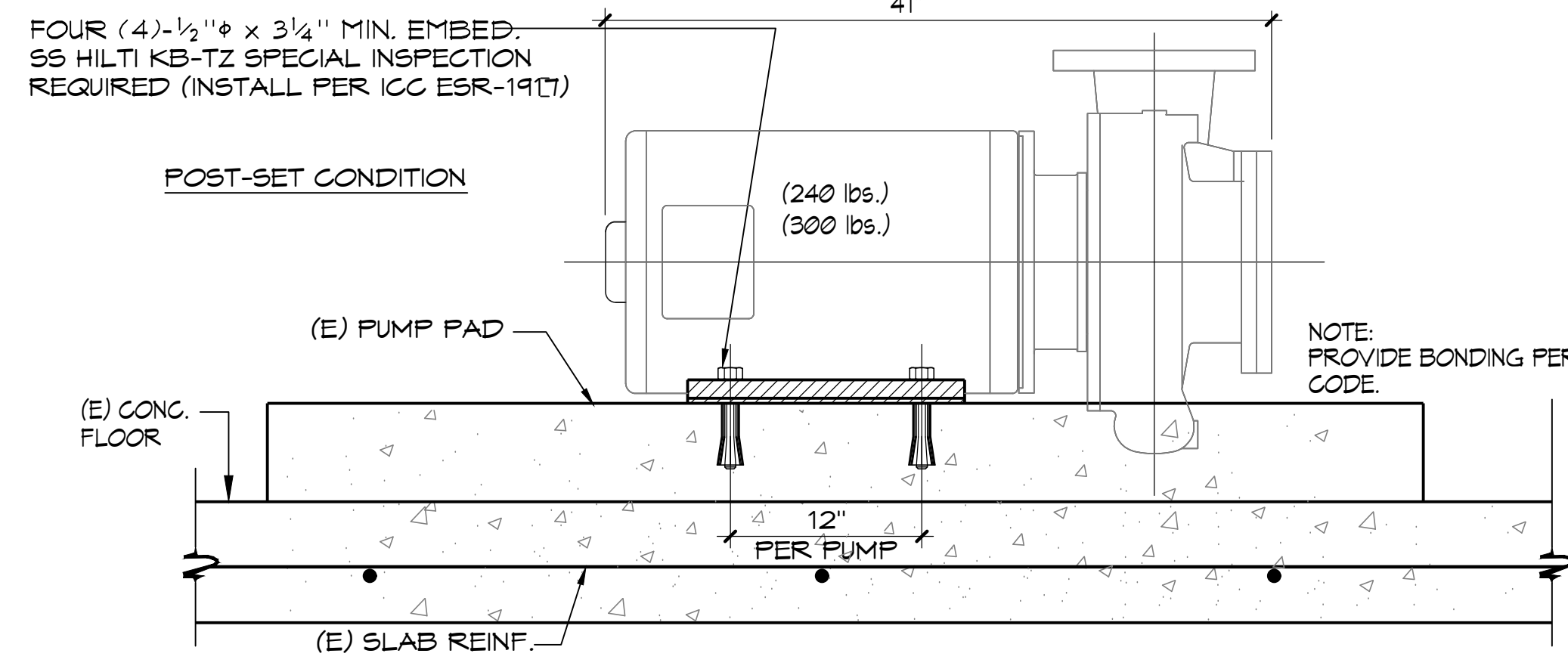
SIZE	MIN. EMBED	ANCHORS IN CONCRETE		ANCHORS IN MASONRY	
		TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)	TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)
1/2" DIA.	2"	800	10	300	10
3/8" DIA.	2"	1,500	25	500	30
1/2" DIA.	3 1/4"	3,000	40	1,000	35
3/8" DIA.	4"	4,900	60	1,250	55
3/4" DIA.	4 3/4"	6,300	110	1,700	120

MECHANICAL ROOM LAYOUT PLAN

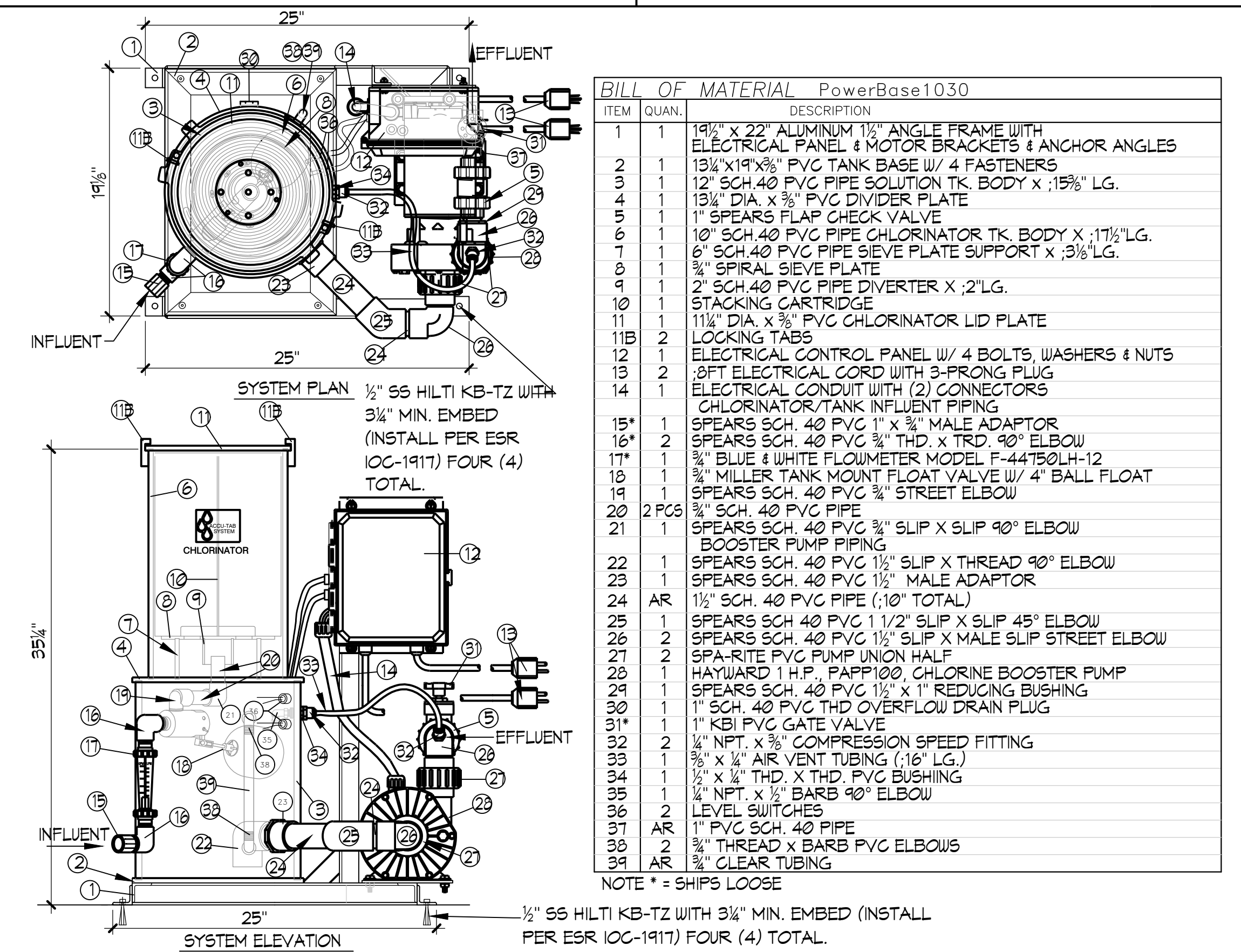
1/8"=1'-0"



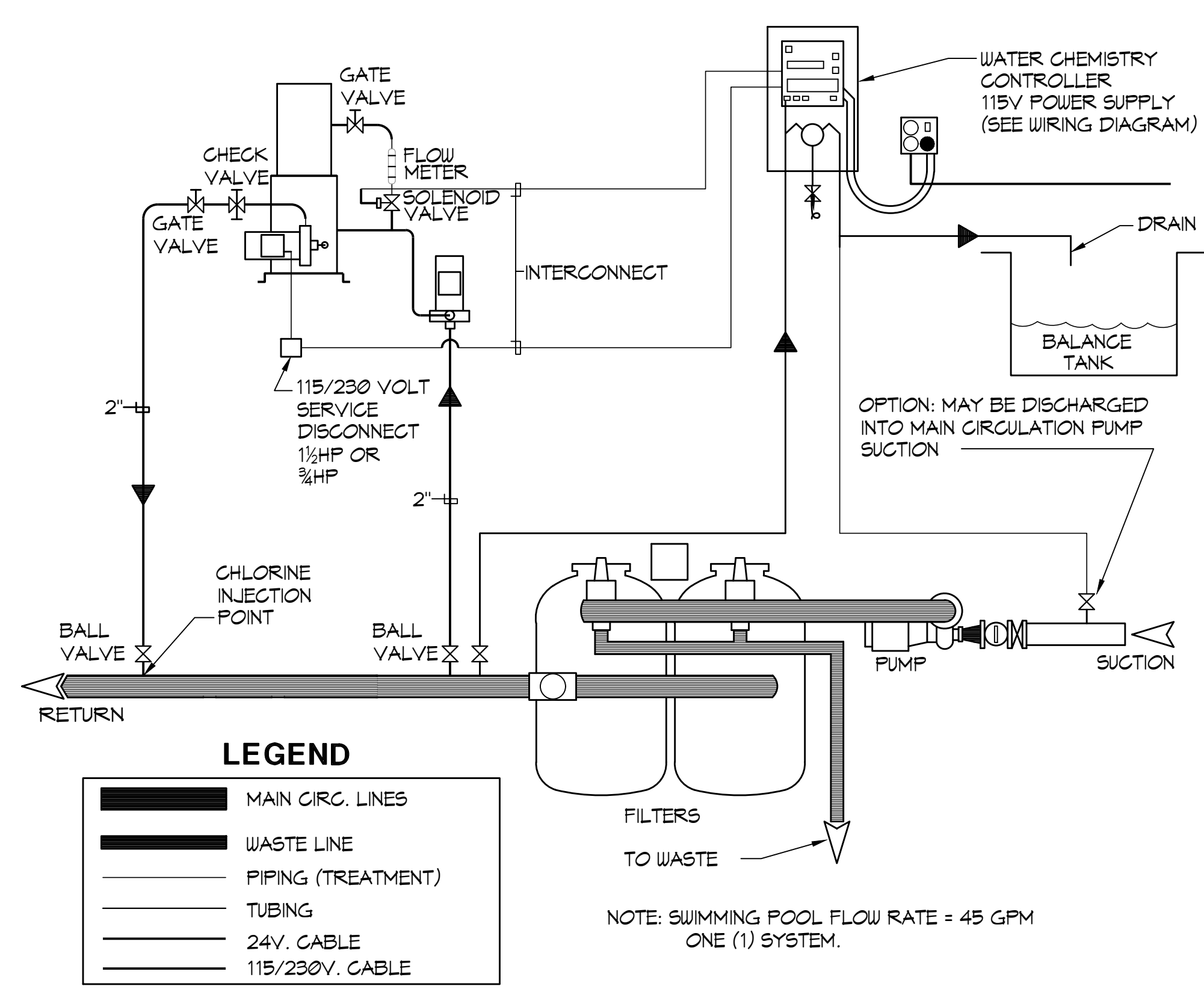
1 FILTER ANCHORAGE NO SCALE



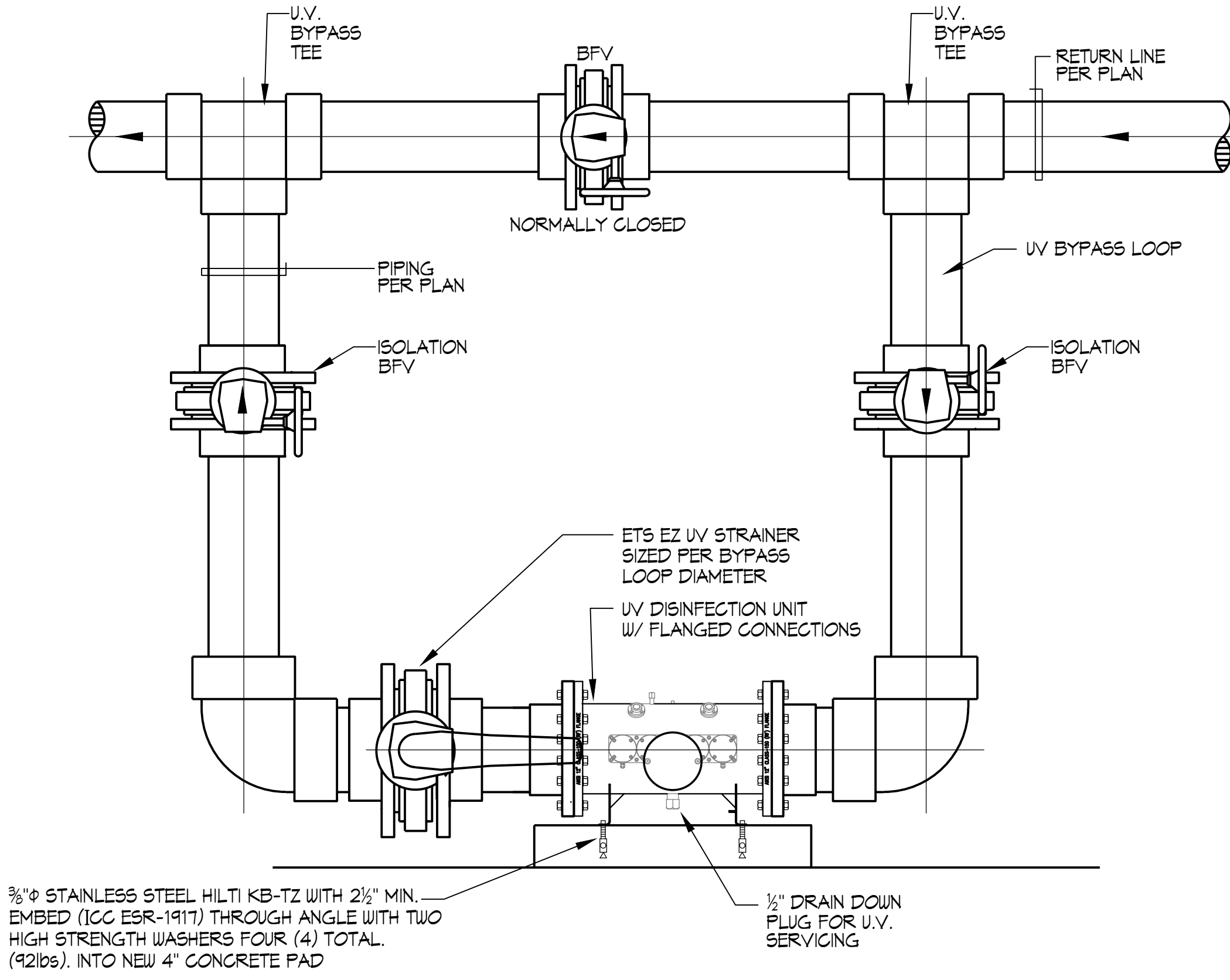
2 PUMP ANCHORAGE NO SCALE



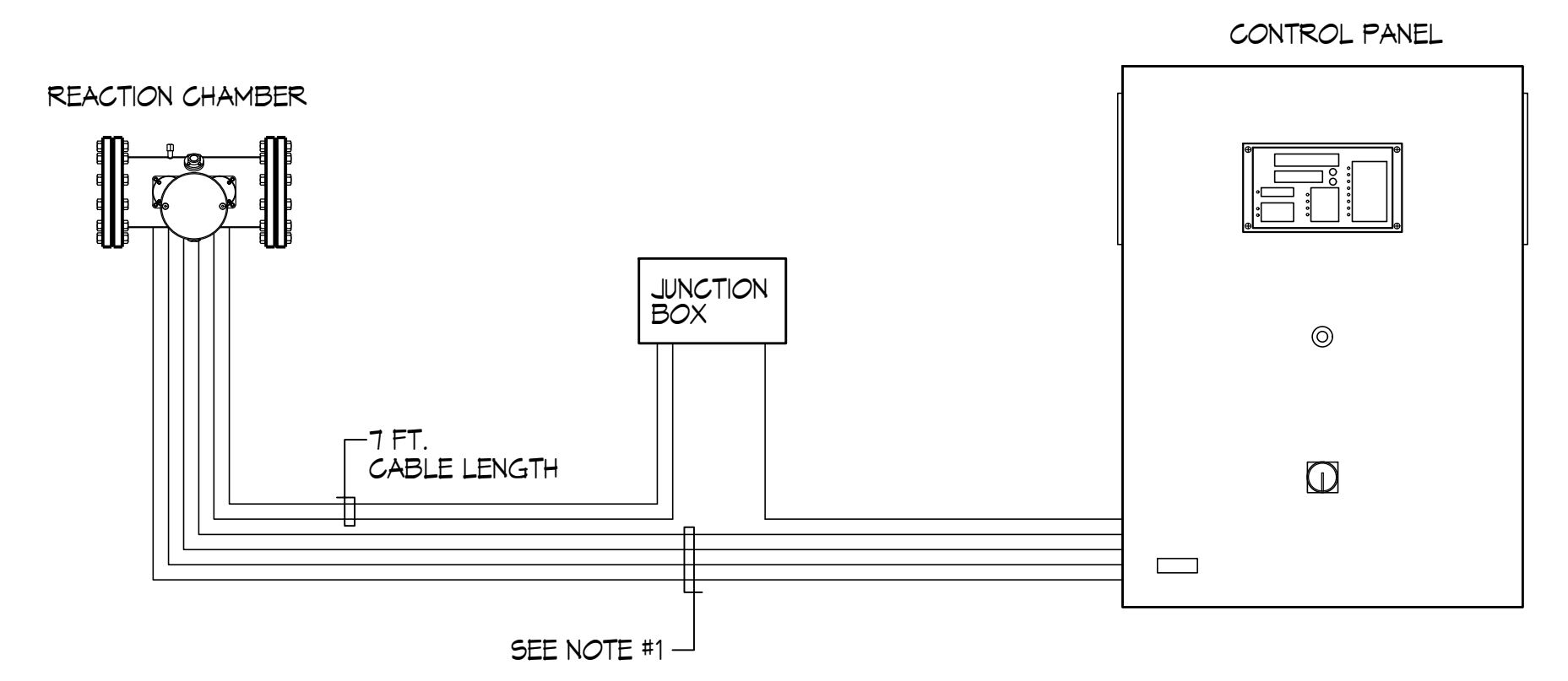
3 ACCU-TAB POWERBASE 1030 CHLORINATION SYSTEM 1 1/2" x 1'-0"



4 PPG POWERBASE AT INSTALLATION

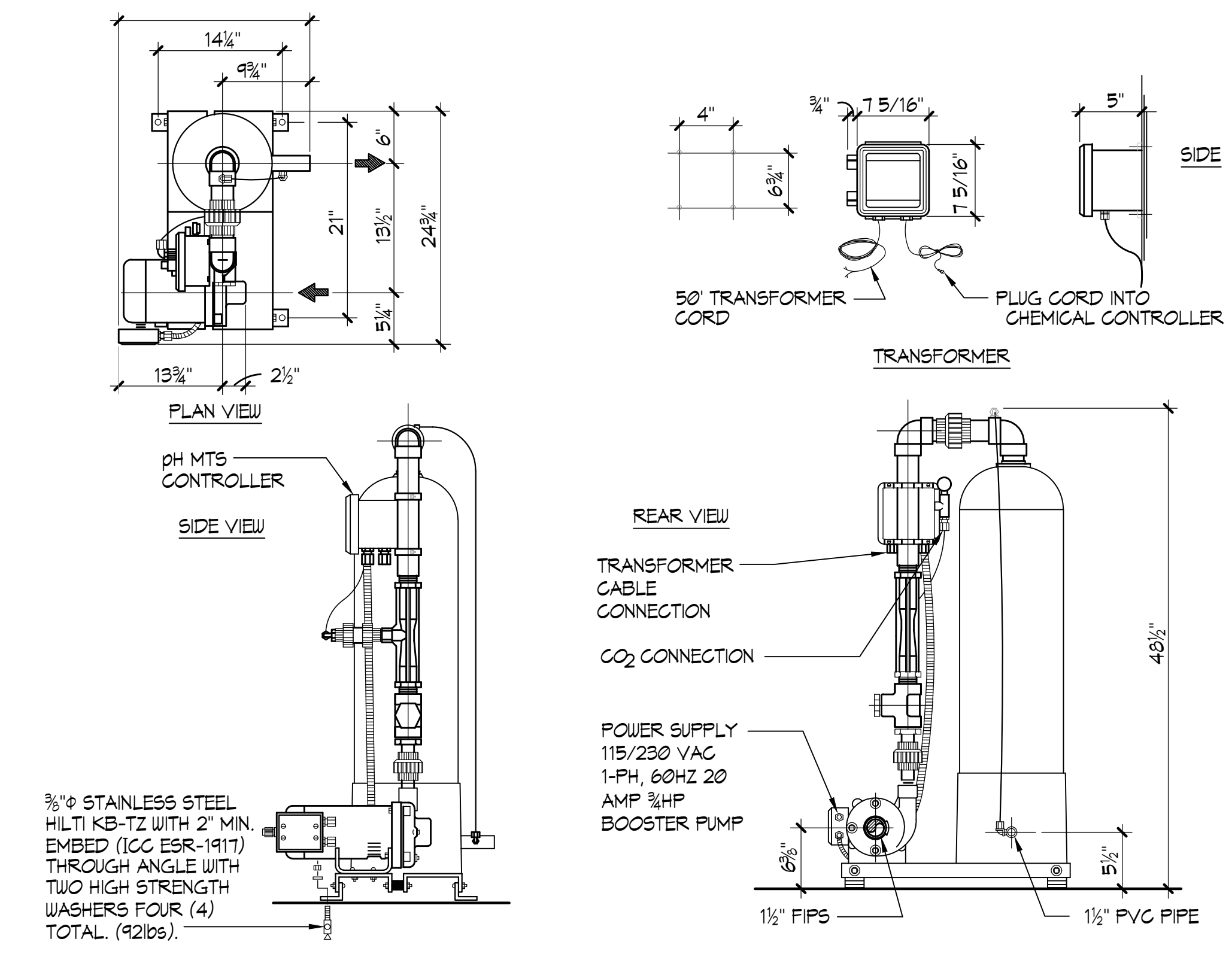


5 ECF U.V. DISINFECTION UNIT INSTALLATION DETAIL NO SCALE

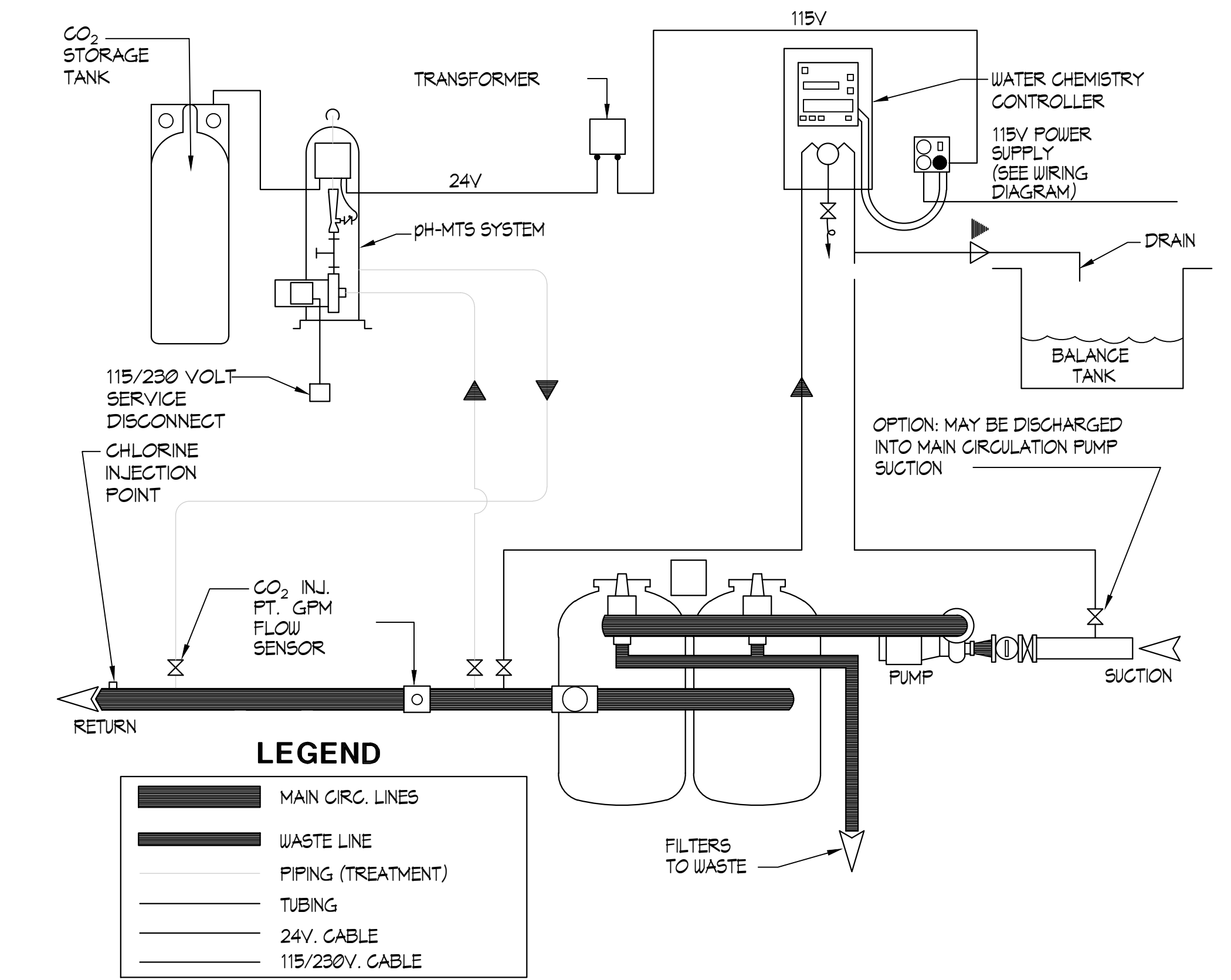


NOTES:
 1. STANDARD CABLE LENGTH FROM REACTION CHAMBER TO CONTROL PANEL IS 16 FEET. OPTIONAL CABLE LENGTHS AVAILABLE IN 33 FT, 66 FT, AND 164 FT.
 2. SEE SPECIFICATIONS FOR BARRIER M UNIT, CONTROL PANEL, AND JUNCTION BOX DIMENSIONS.

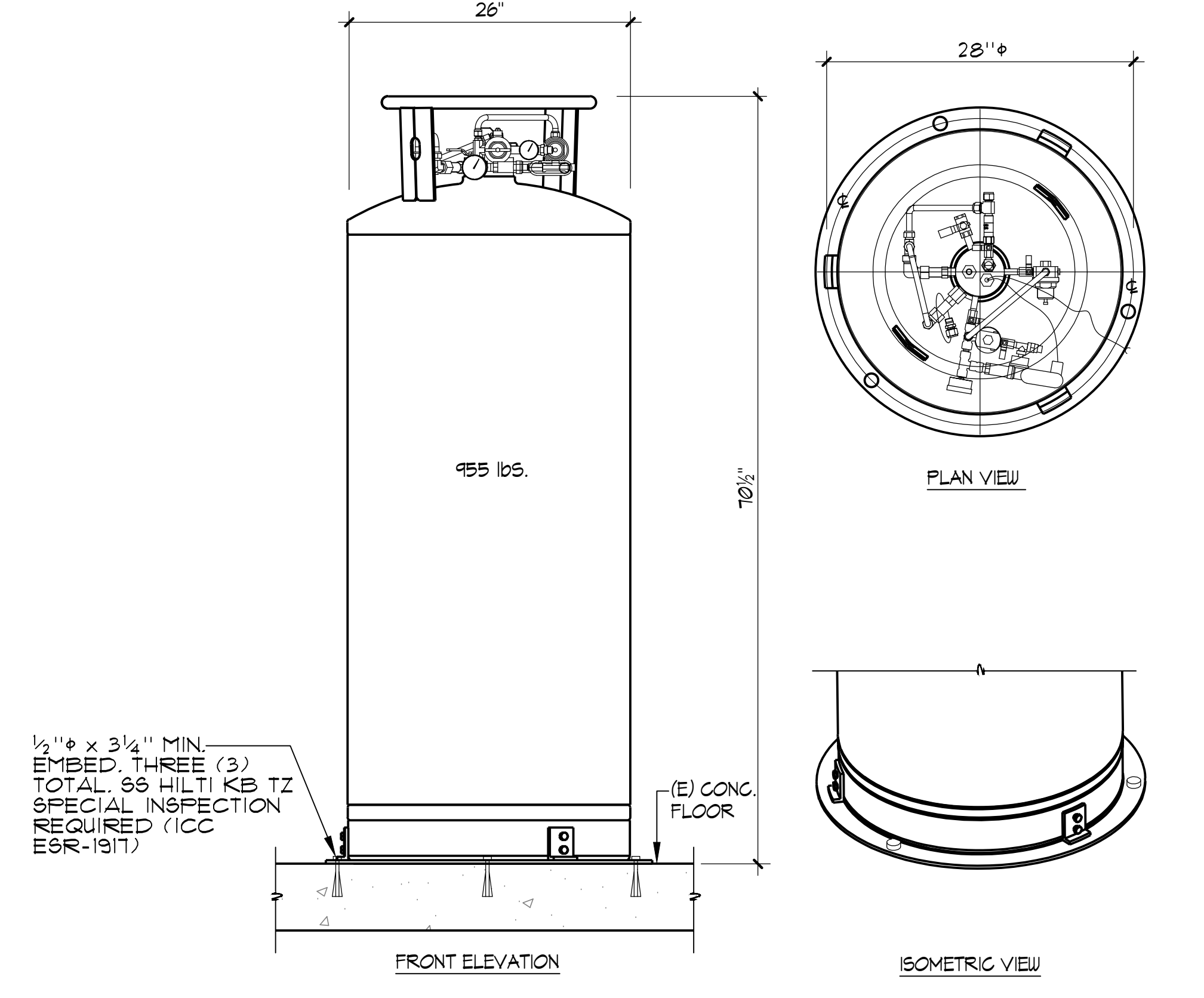
6 U.V. DISINFECTION UNIT TYPICAL INSTALLATION NO SCALE



7 CARBON DIOXIDE pH MTS CONTROLLER NO SCALE



8 TYPICAL CARBON DIOXIDE pH-MTS INSTALLATION NO SCALE



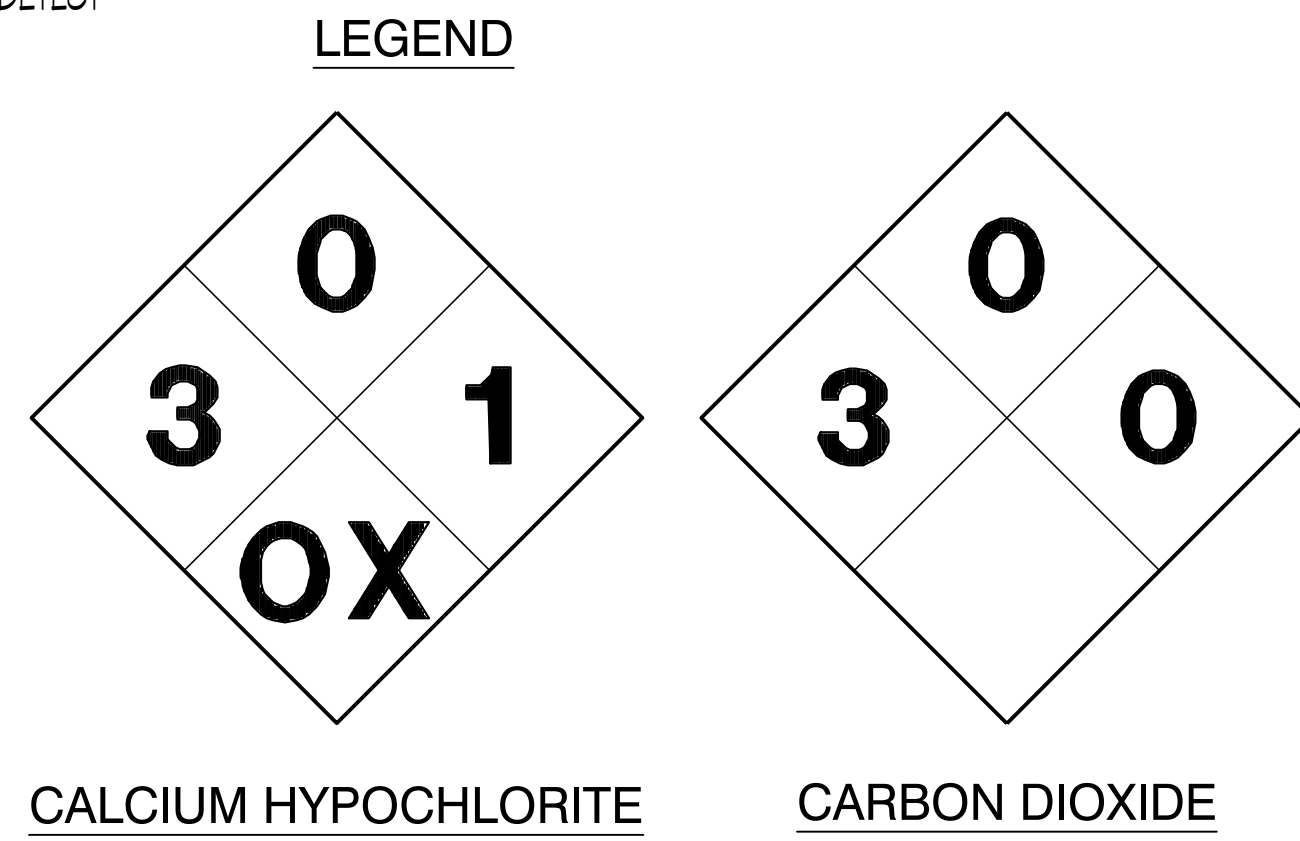
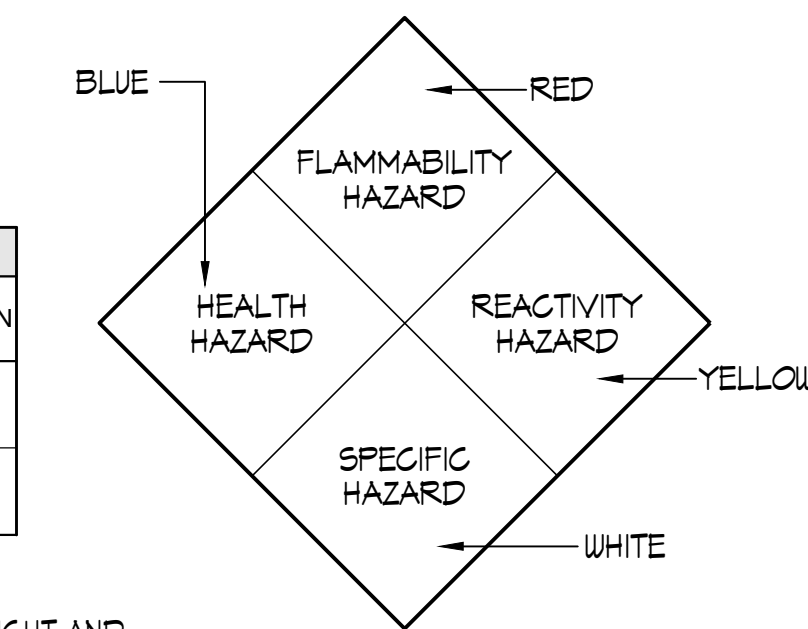
9 CO2 TANK ANCHORAGE DETAIL NO SCALE

CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
CALCIUM HYPOCHLORITE	CALCIUM HYPOCHLORITE	65%	7778-54-3	TABLET	45 lbs.	150 lbs.	1,150 lbs.	MECH. ROOM	OXIDIZER	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	686 lbs.	EXISTING CO2 LOCATION (SEE SHEET MR.2)	CRYOGENIC	MSDS

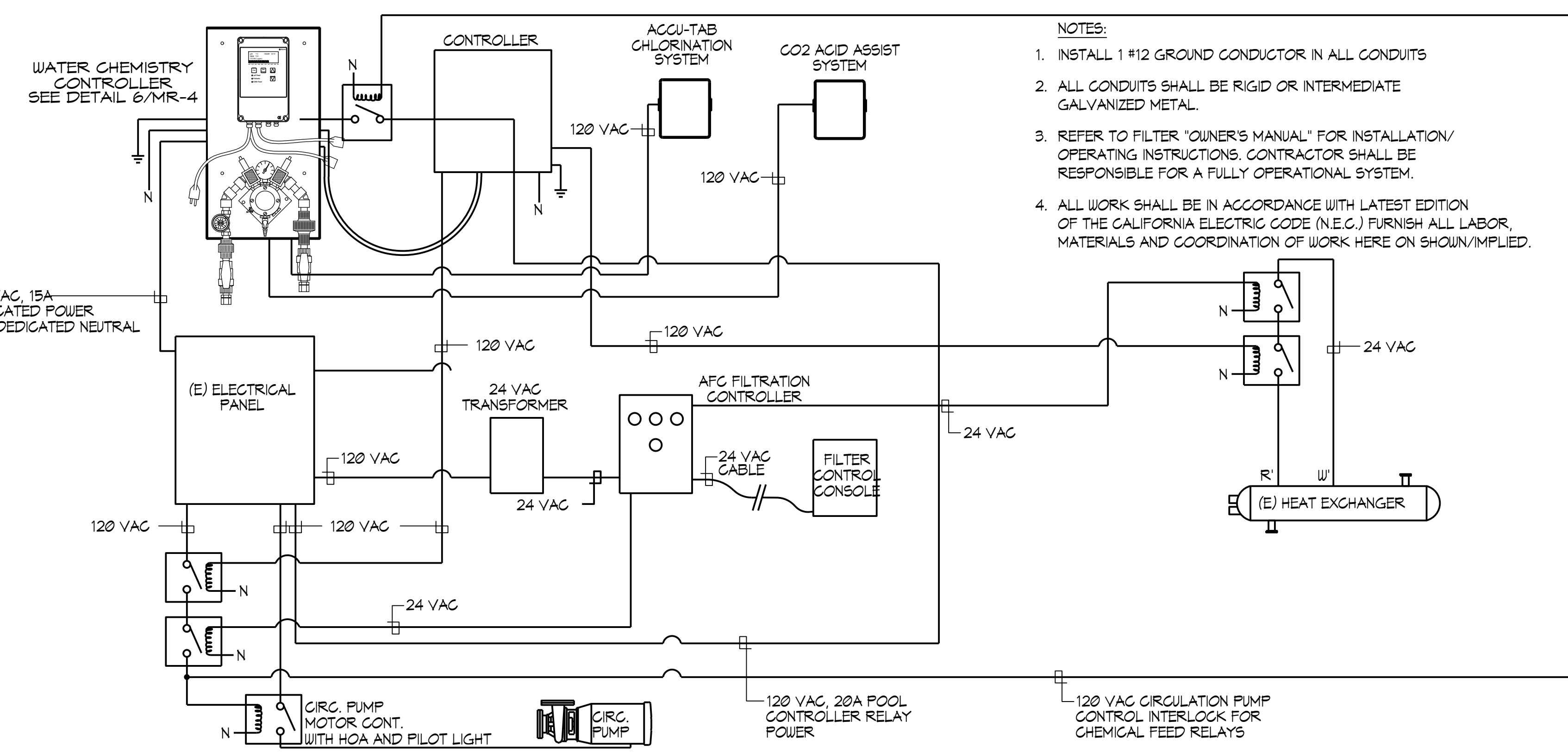
QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1.1 (1) AND 307.1.1 (2). FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA & 800 FT³ ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA. PROVIDE HARD WIRED CO₂ DETECTOR ANALOG SENSOR TECHNOLOGY MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 10 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO₂ GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO₂.

RATING EXPLANATION GUIDE					
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD	
4	CAN BE LETHAL	EXTREMELY FLAMMABLE IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER:	OX
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F., BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	ACID:	ACID
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F., BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	CORROSIVE:	COR
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	ALKALI:	ALK
0	NO HAZARD	WILL NOT BURN	STABLE	USE NO WATER:	W-
				RADIATION HAZARDS:	☢
				POLYMERIZES:	P

- NOTES:
 1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
 2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT 48" A.F.F. ON DOORS AT CHEMICAL ROOMS.



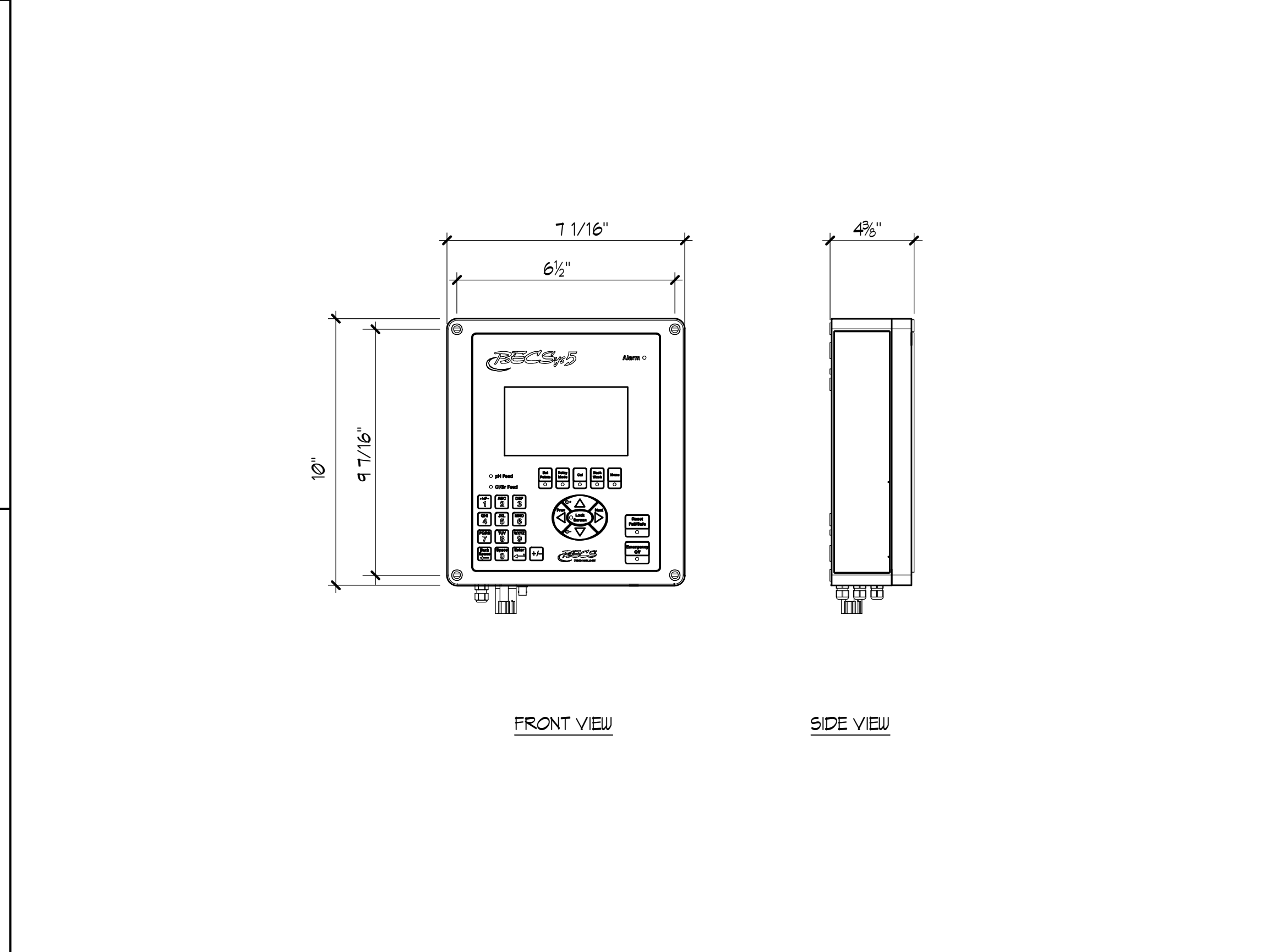
CALCIUM HYPOCHLORITE CARBON DIOXIDE



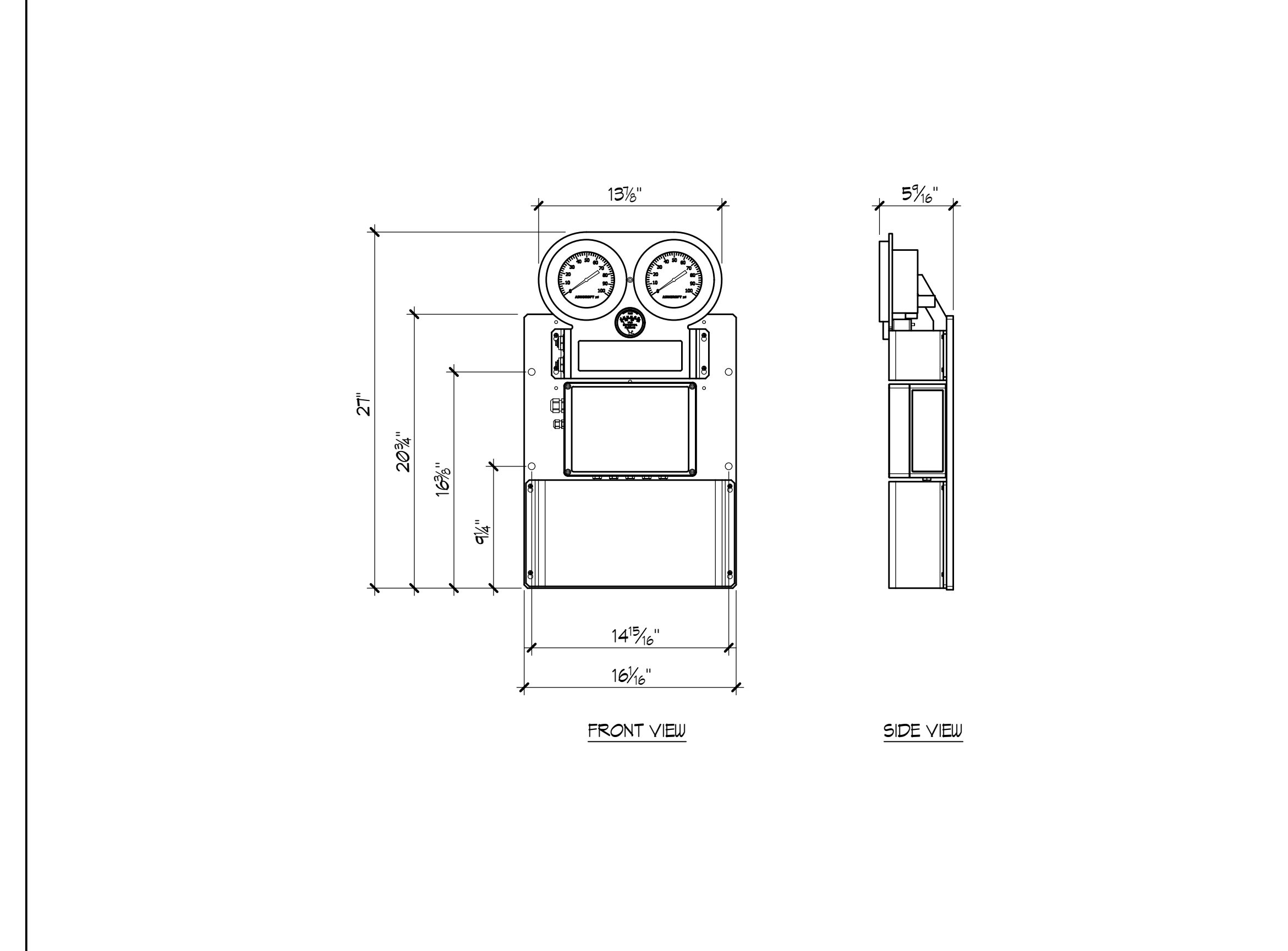
- NOTES:
 1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
 2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
 3. REFER TO FILTER 'OWNER'S MANUAL' FOR INSTALLATION/ OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE CALIFORNIA ELECTRIC CODE (N.E.C.) FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.

1 HAZARDOUS INFORMATION SIGNAGE NO SCALE

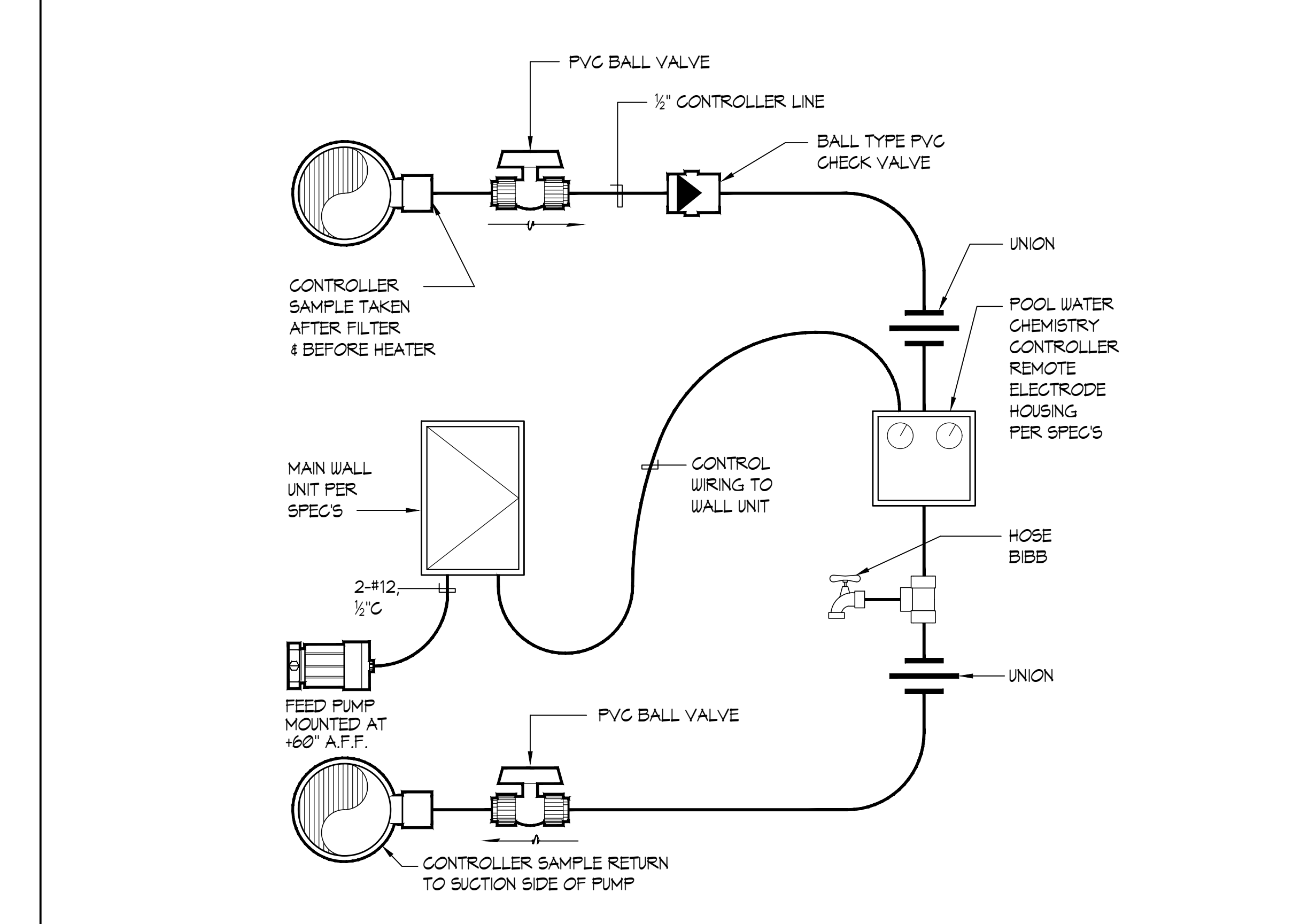
2 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE



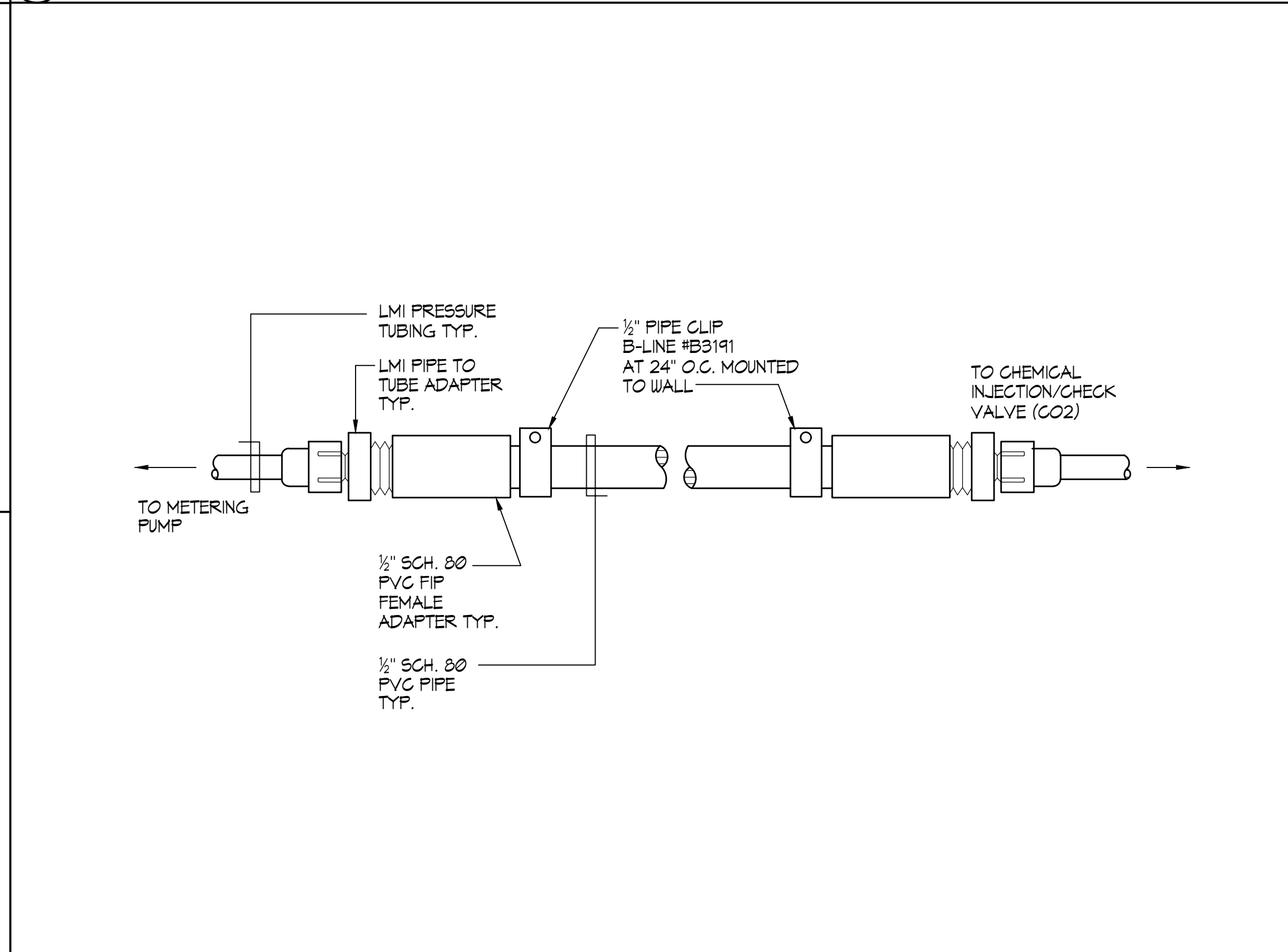
3 BECSYS 5 WATER CHEMISTRY CONTROLLER 1/2"=1'-0"



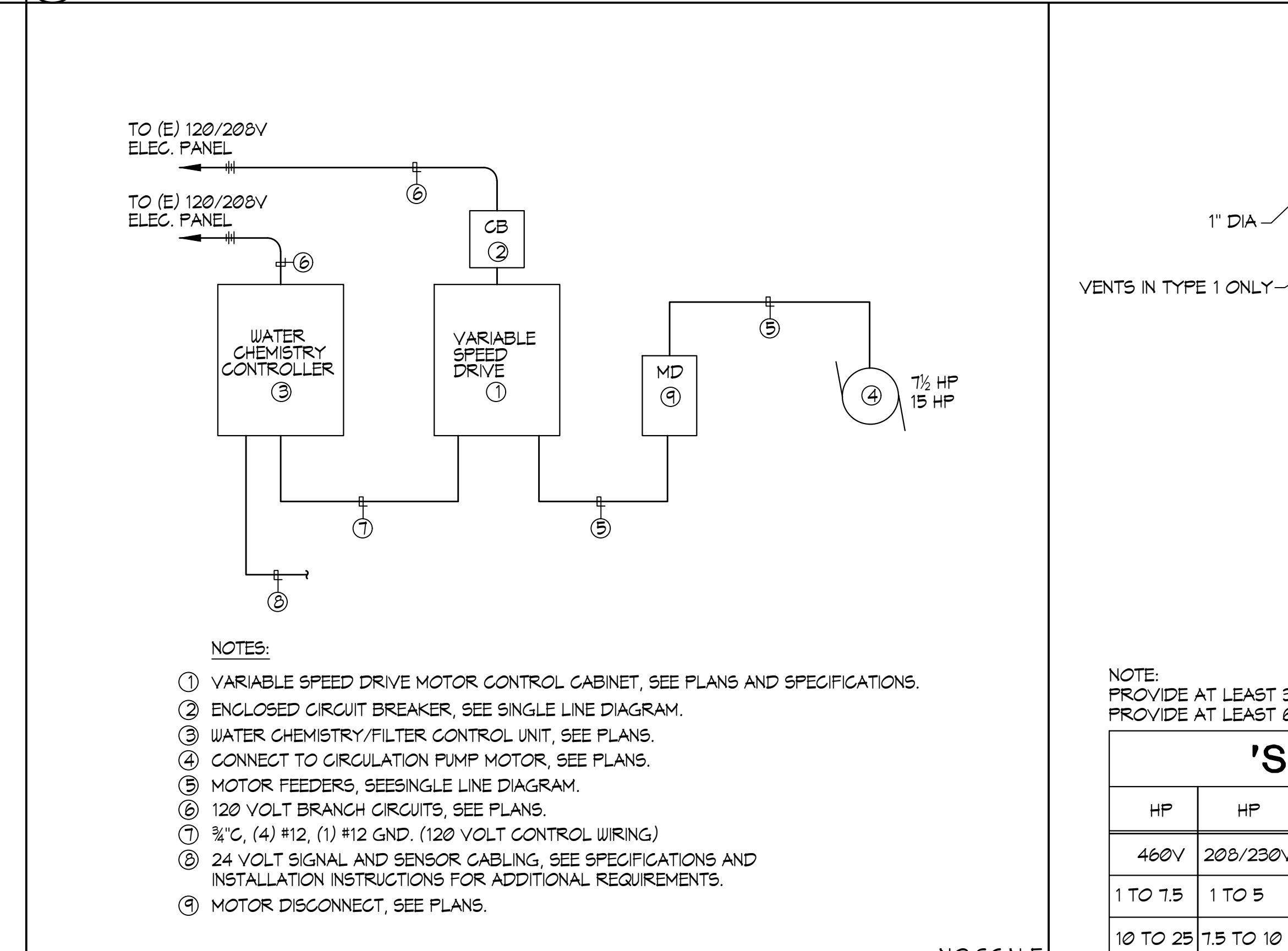
4 BECSYS FILTER INTERFACE SYSTEM 1/2"=1'-0"



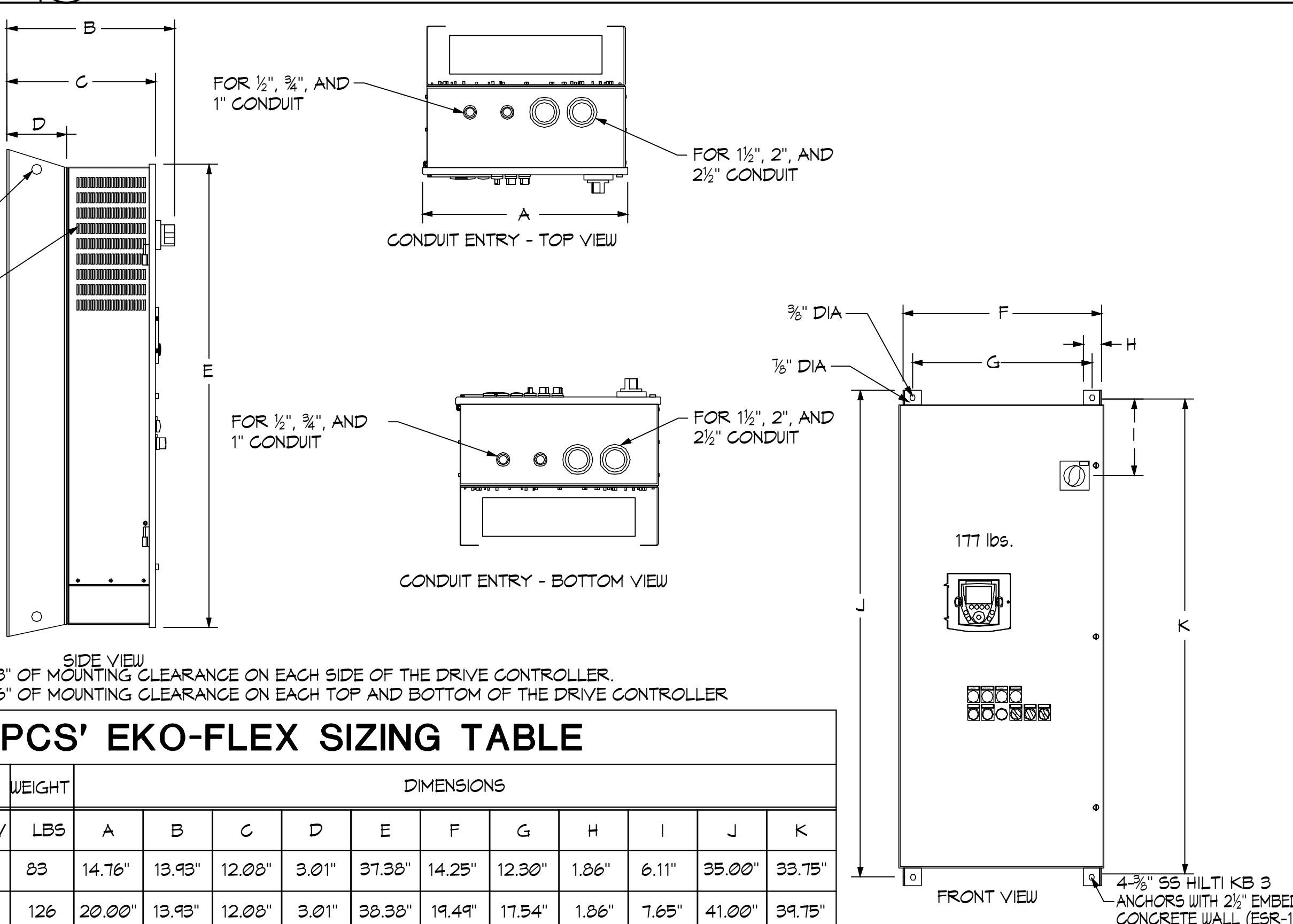
5 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



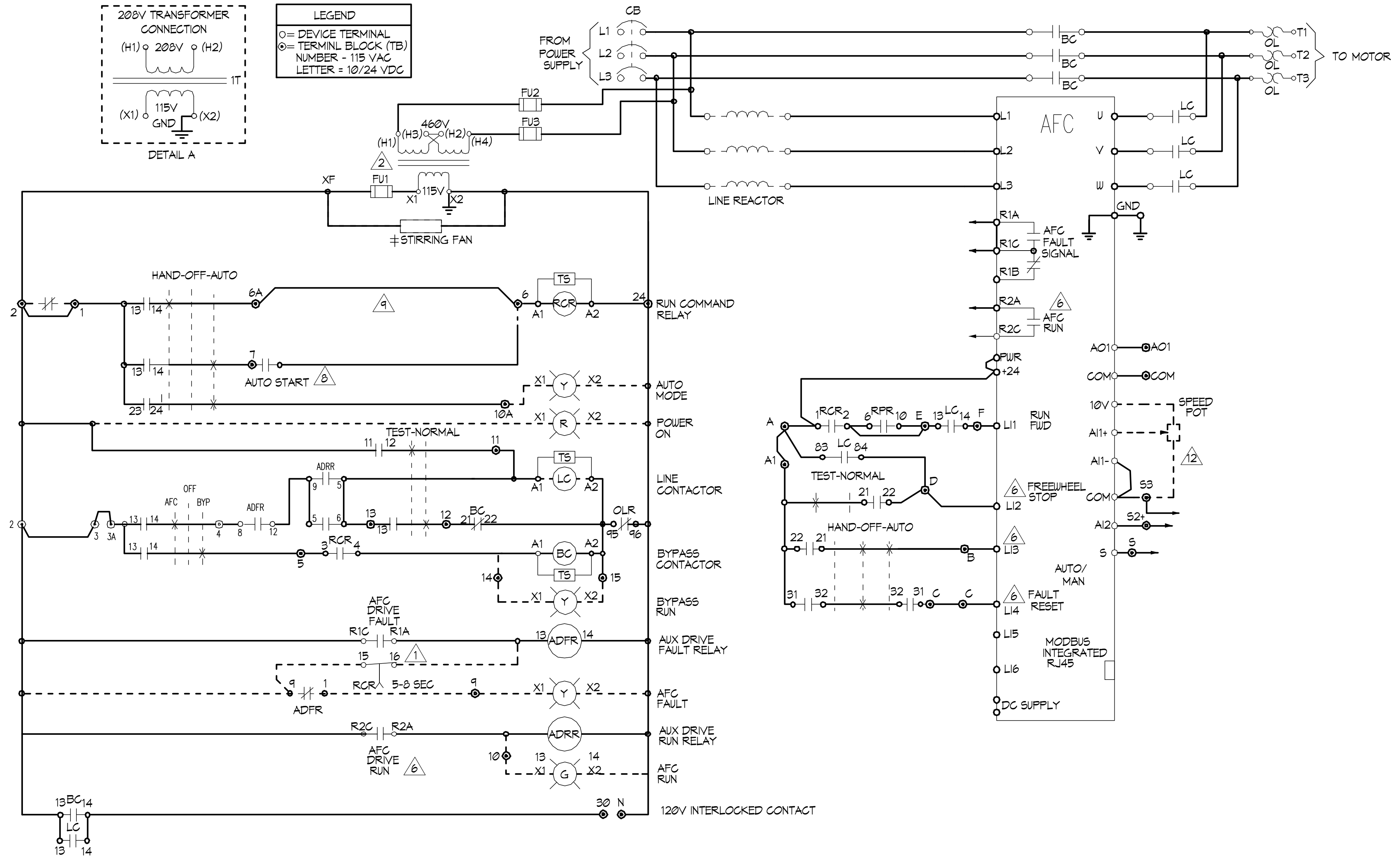
6 CHEMICAL FEED PIPING DETAIL NO SCALE



7 TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE



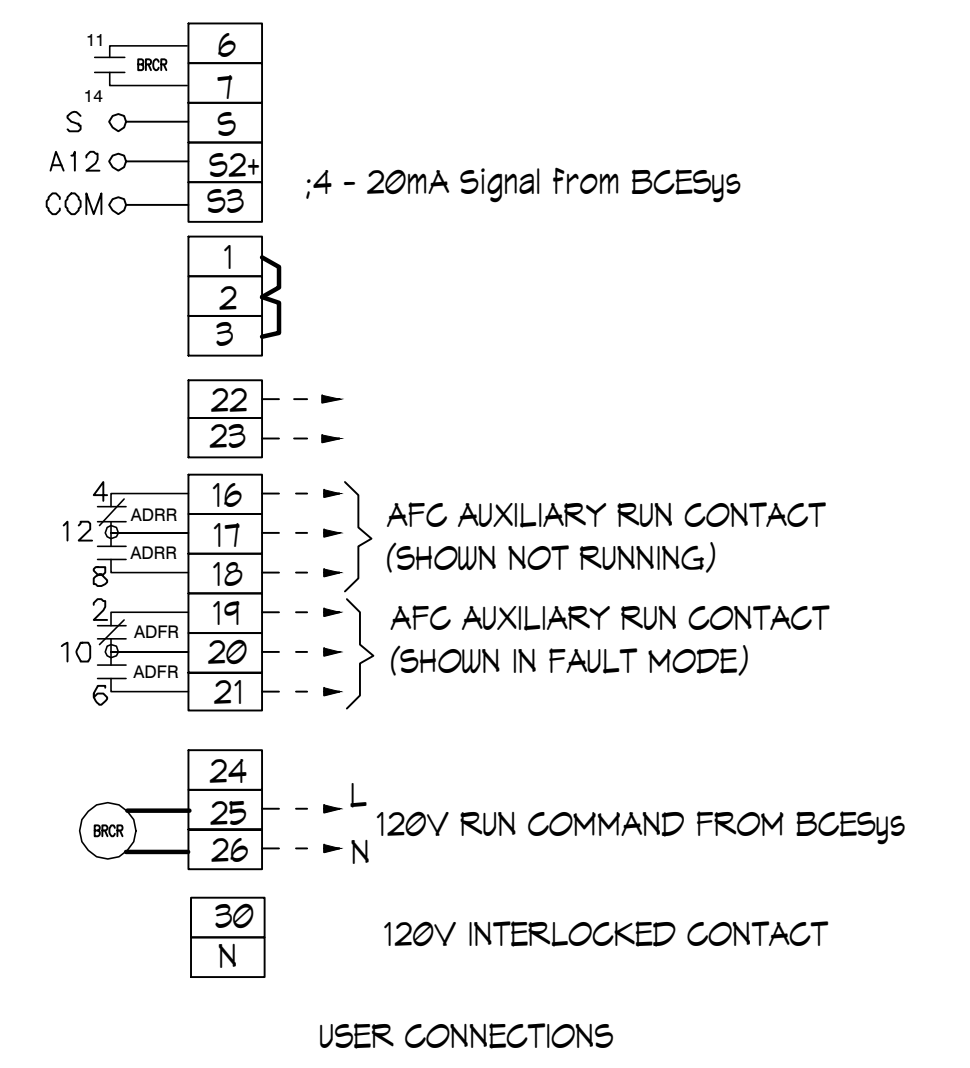
8 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS NO SCALE



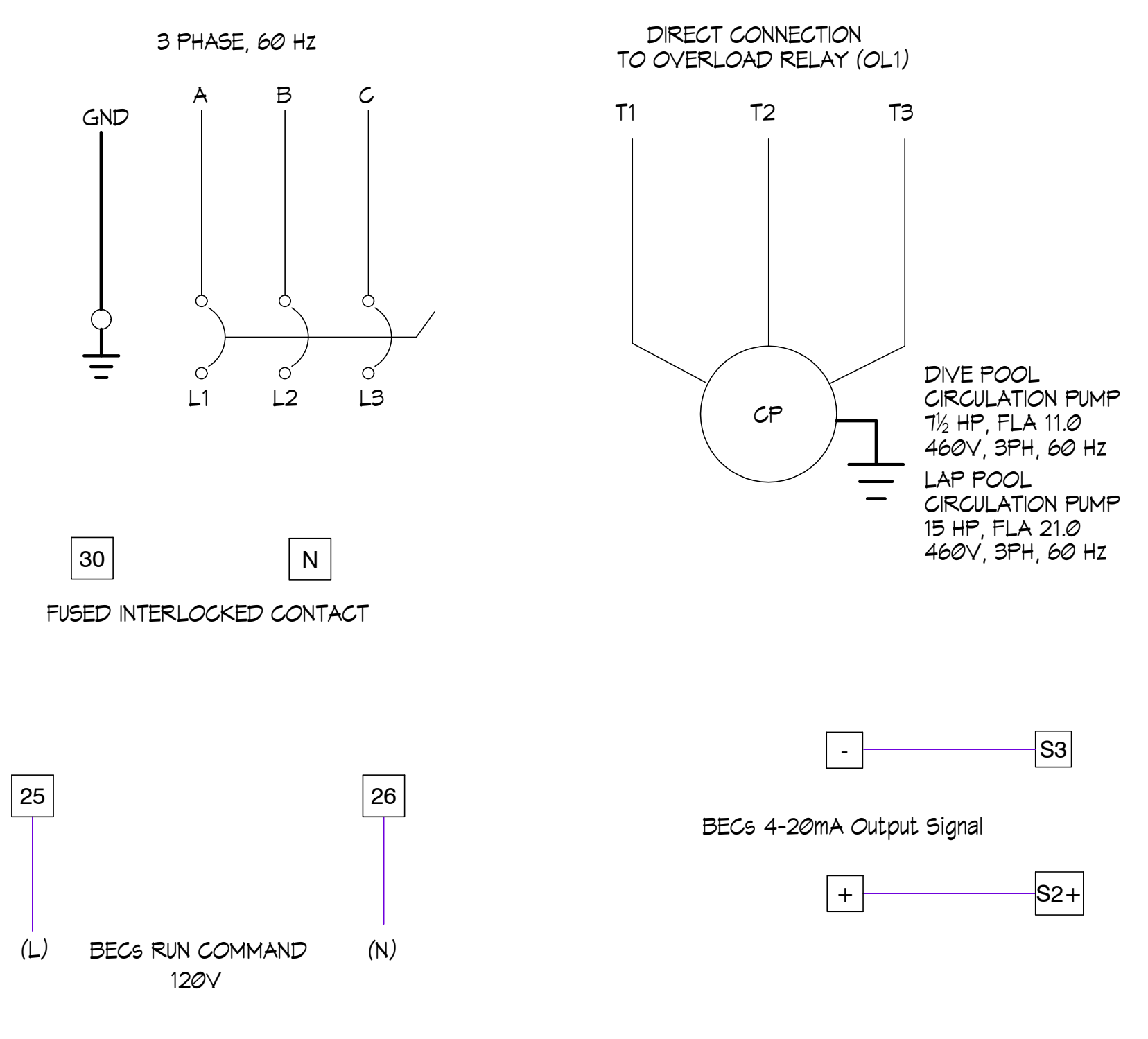
EKO-FLEX ATV61 FACTORY CONFIGURATION

MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	LCC	2C
SIM	1.1	----	PUMPS FANS	CFG	PHF
SIM	1.1	----	STANDARD MOT. FREQ. (HZ)	BPF	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	DEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SIM	1.3	----	SWITCHING FREQ. (HZ)	SCF	8
I-O	1.5	----	2 WIRE TYPE	LC1	LEL
I-O	1.5	A12 CONFIG.	A12 MIN. VALUE (mA)	C12	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	rUn
CLL	1.6	----	REF. 1 CHAN	FR1	HMI
CLL	1.6	----	REF. 1B CHAN	FR1	A1
CLL	1.6	----	PROFILE	CHCF	SEP
FUN	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nSt	LI2
FUN	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	LI3
FUN	1.7	REFERENCE SWITCH	REF. 1B CHAN	Fr1b	A12
FLI	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLI	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLI	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	PDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLI	LI4

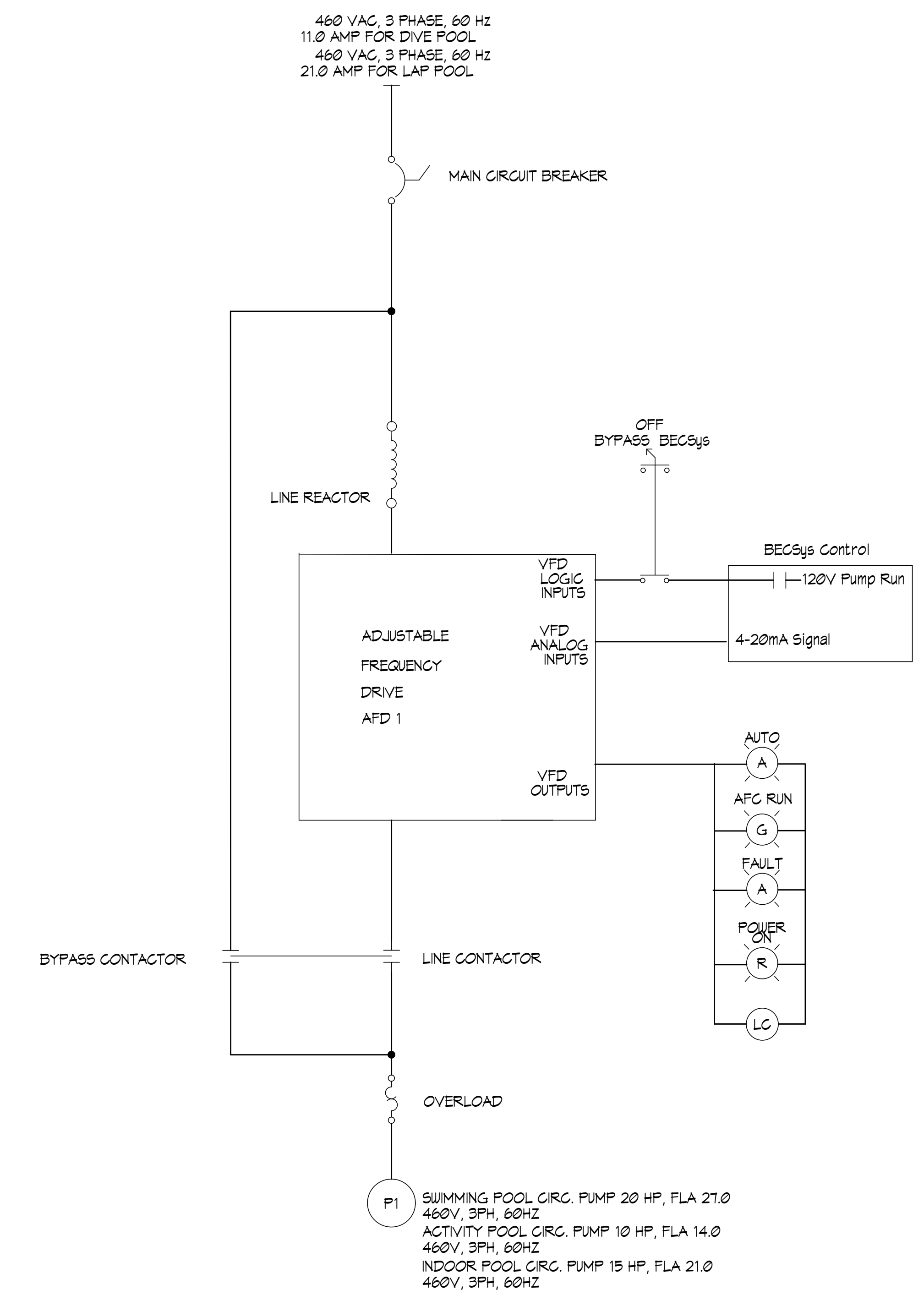
DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
± STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
± VENTILATION FAN	NA	NA	ALL HP
± SPACE HEATER	NA	NA	ALL HP

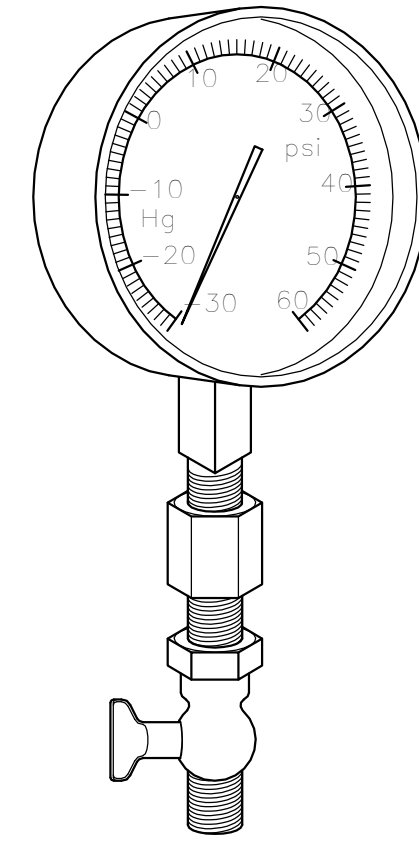


- NOTES:**
- 1 RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
 - 2 CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
 - 3 PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
 - 4 BECs RUN COMMAND RELAY (BRGR)
 - 5 JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.



2 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE





4 1/2" 5/8" CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60PSI AND VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2PSI AND VACUUM OF 2" Hg 1/4" NPT PER SPECIFICATIONS.

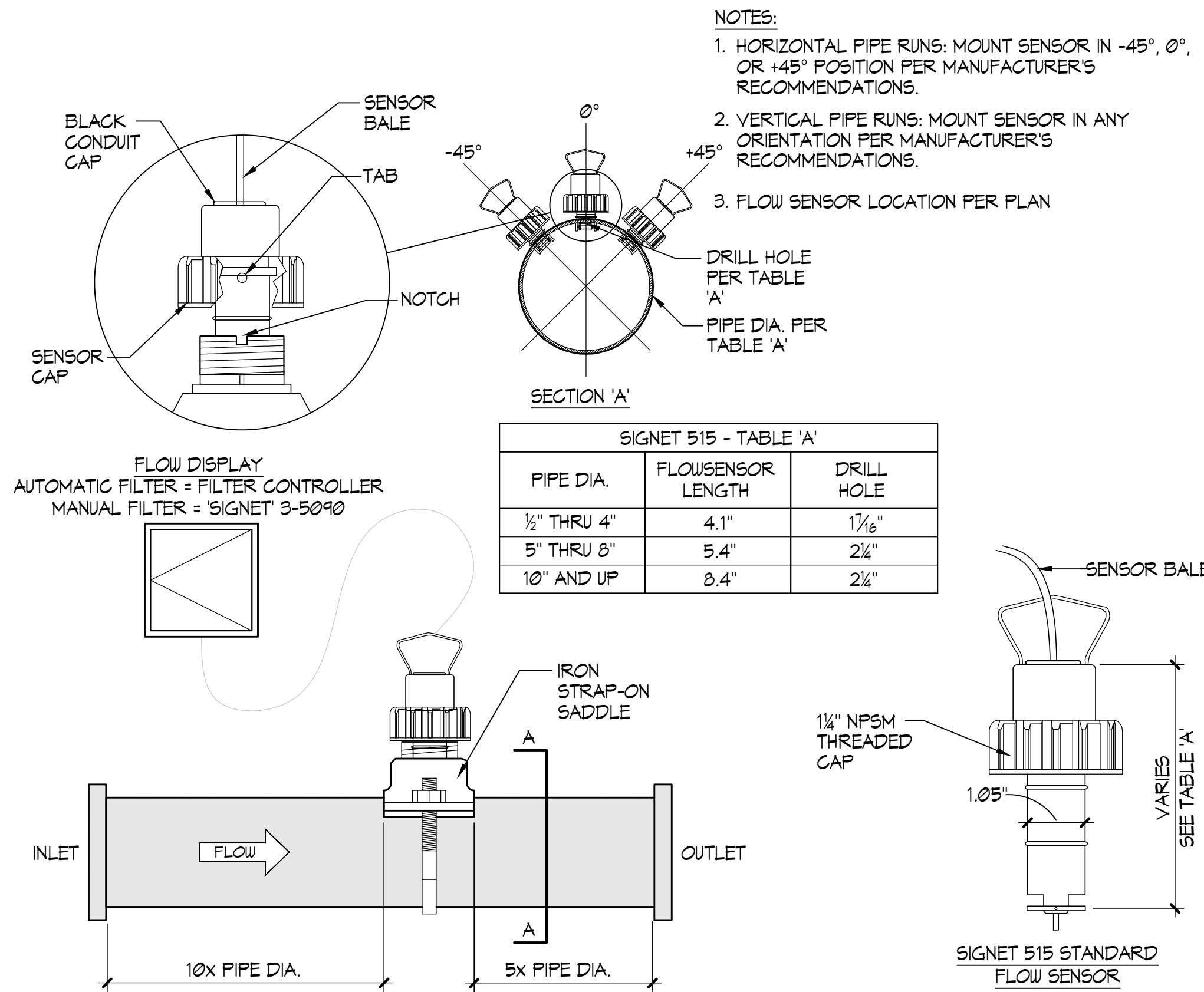
SNUBBER

PETCOCK: MODEL #A10, BRASS

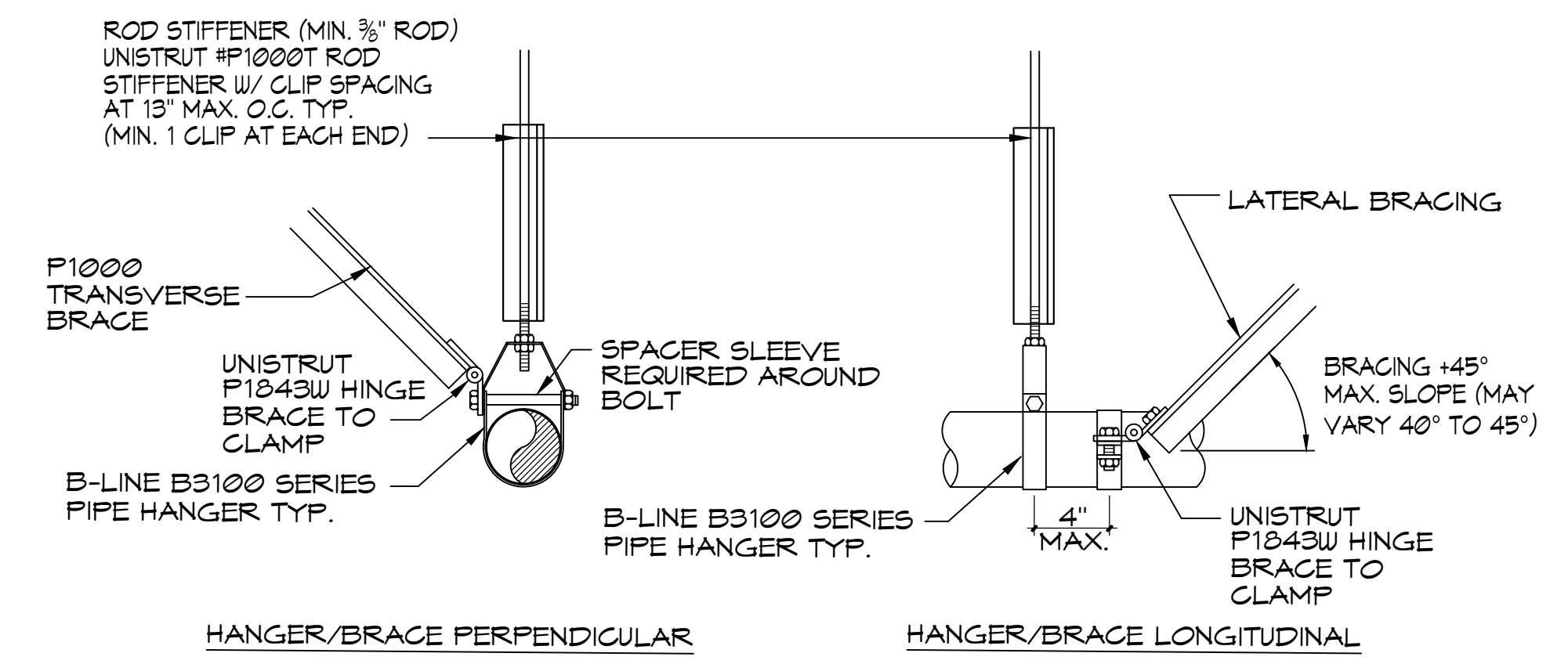
NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.

2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

1 PRESSURE/VACUUM GAUGE 6"-11"-0"



2 SIGNET FLOWMETER NO SCALE



HANGER ROD SIZES/TABLE
3/8" AT 4" PIPING MAX. ROD LENGTH = 30"
1/2" AT 6" PIPING MAX. ROD LENGTH = 30"
3/4" AT 8" PIPING MAX. ROD LENGTH = 30"
1" AT 12" PIPING MAX. ROD LENGTH = 30"

MAX. PIPE HANGER SPACING
4" PIPING OR SMALLER = 3'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
12" PIPING = 4'-0" O.C.

NOTES:
1. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
2. PROVIDE BRACING FOR EACH PIPE RUN IN TWO DIRECTIONS.
3. REFER TO MR.1 FOR PIPE HANGER LOCATIONS.

3 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS NO SCALE