

FIGURE 1

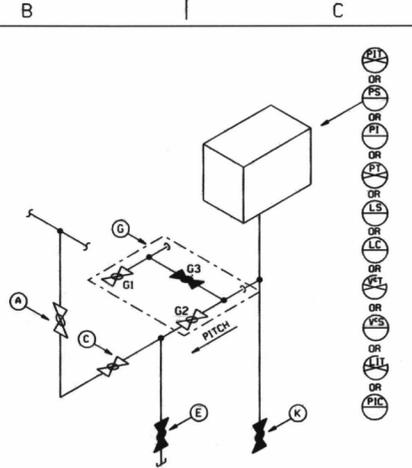


FIGURE 1A

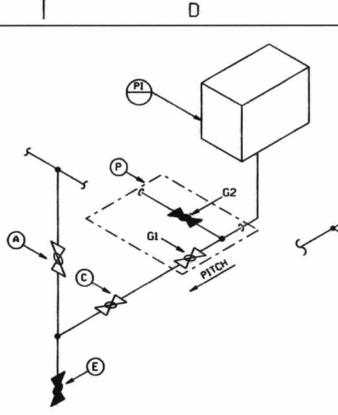


FIGURE 1B

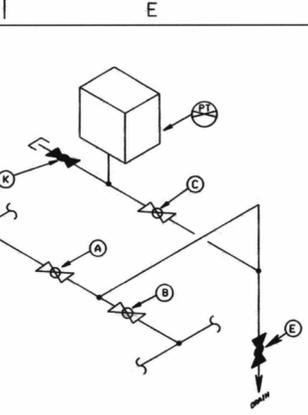


FIGURE 1C

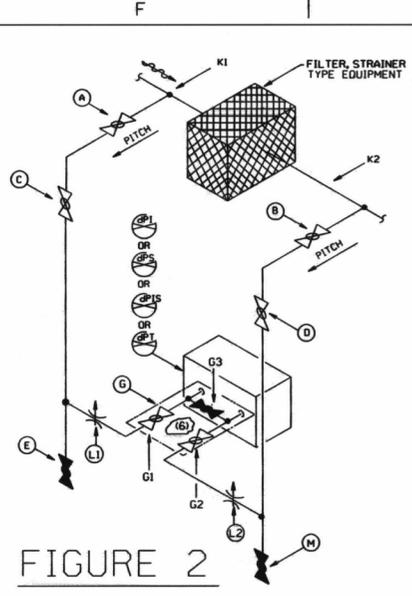


FIGURE 2

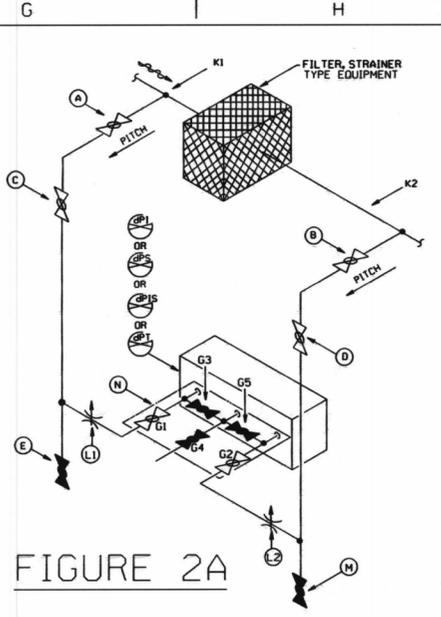


FIGURE 2A

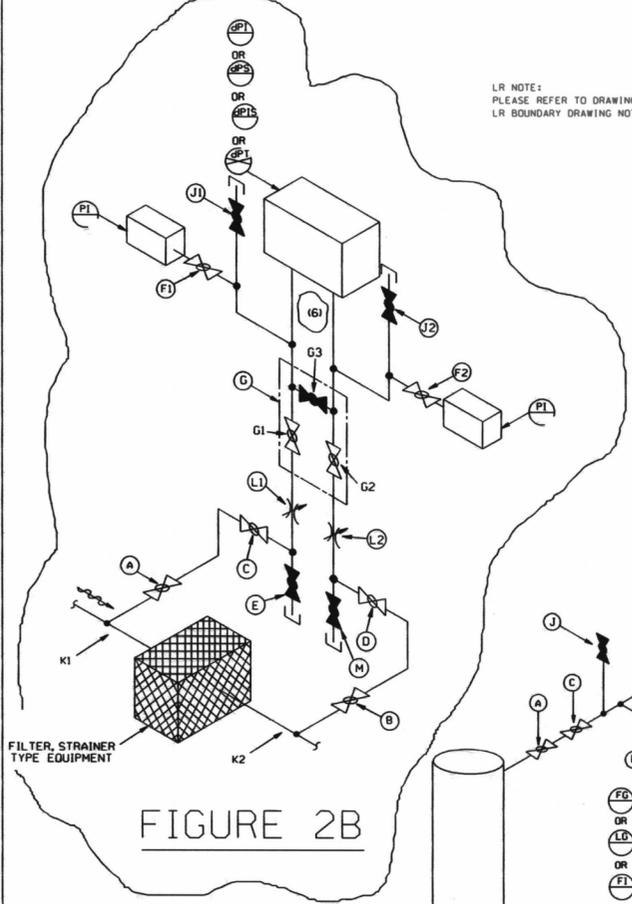


FIGURE 2B

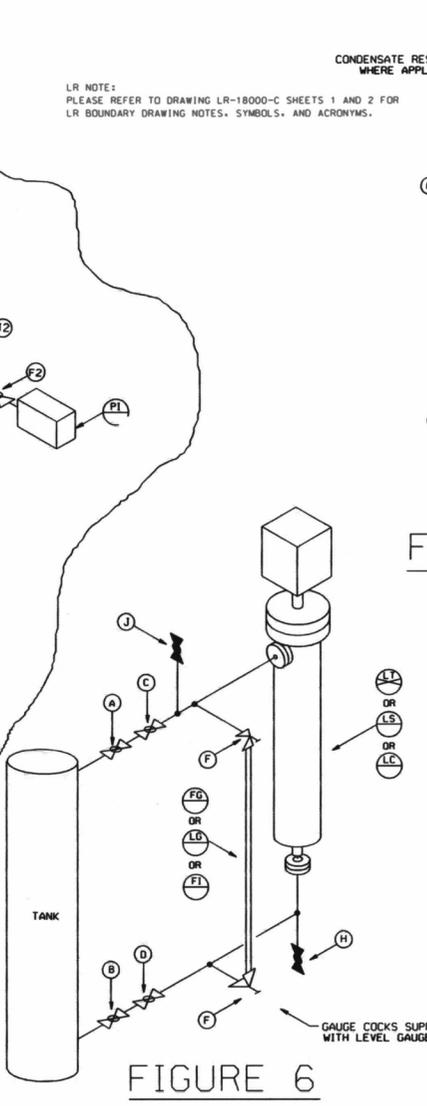


FIGURE 6

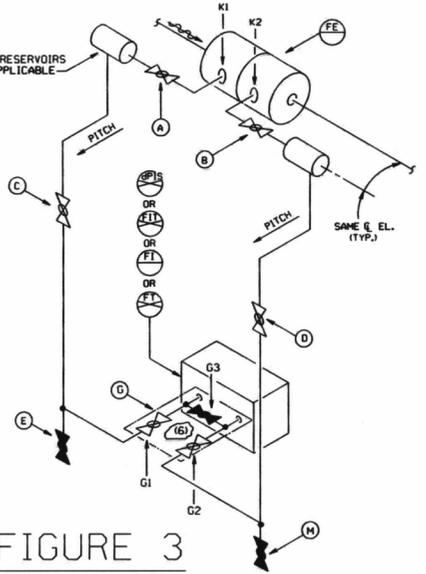


FIGURE 3

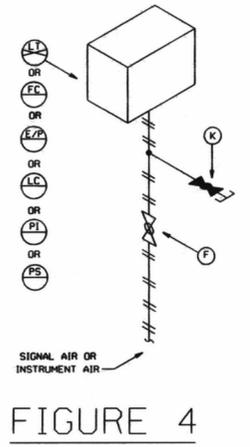


FIGURE 4

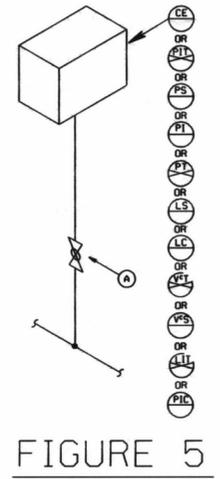


FIGURE 5

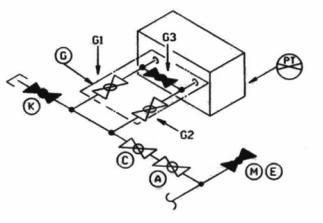


FIGURE 7

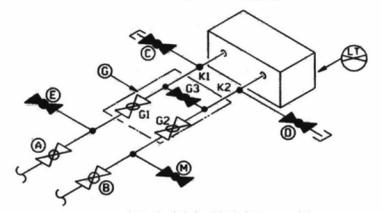


FIGURE 8

(C. AND D. = TEST/DRAIN VALVES)

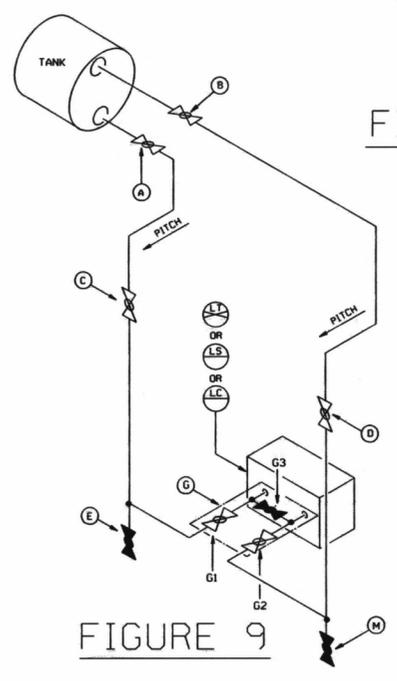


FIGURE 9

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

CONDENSATE RESERVOIRS  
WHERE APPLICABLE

SAME E. EL.  
(TYP.)

FILTER, STRAINER  
TYPE EQUIPMENT

GAUGE COCKS SUPPLIED  
WITH LEVEL GAUGE.

- GENERAL NOTES:**
- ALL ROOT VALVES ON THIS DRAWING ARE BEING SHOWN AS NORMALLY OPEN SINCE THIS IS THE PLANT CONFIGURATION GENERALLY FOUND, WHERE SPECIFIC ROOT VALVES ARE REQUIRED TO BE MAINTAINED IN THE NORMALLY CLOSED POSITION, THESE ROOT VALVES SHALL BE SO NOTED ON THE SCHEDULE SHEETS. THIS INFORMATION WILL BE INCORPORATED AS IT IS RECEIVED FROM THE SITE AND THROUGH THE DOCUMENT CHANGE PROCEDURE PROCESS.
  - THE PIPING AND VALVING CONFIGURATIONS SHOWN ON THIS DRAWING DO NOT NECESSARILY REFLECT THE EXACT PIPING AND VALVING ARRANGEMENTS INSTALLED. REFER TO MECHANICAL DESIGN CRITERIA MDC-14 FOR THE DESIGN CRITERIA AND GUIDELINES BEING UTILIZED BY ENGINEERING FOR NEW (AS OF 1-27-98) INSTRUMENTATION INSTALLATION.
  - FIGURES AS SHOWN REFLECT INSTRUMENT INSTALLATION FOR LIQUID SERVICES. FOR GAS SERVICES, SEE MDC-14.
  - SEE DRAWING C-18000-C (S11) FOR THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
  - CALIBRATION TEES MAY BE FIELD INSTALLED BETWEEN THE INSTRUMENT ISOLATION VALVE AND THE INSTRUMENT FOR EASE OF CALIBRATION PROVIDED THE DISTANCE BETWEEN THE VALVE AND INSTRUMENT DOES NOT INCREASE IN LENGTH AND ONLY A TEE AND PLUG IS ADDED (NO ADDITIONAL TUBING IS INSTALLED) AND THE PROVISIONS OF MDC-14 ARE MET. POST INSTALLATION TESTING TO BE PERFORMED PER THE APPLICABLE WORK PLAN. THE ALARA GROUP SHALL BE CONTACTED PRIOR TO INSTALLATION OF THE TEE AND PLUG TO ENSURE THAT IN SITU CALIBRATION OF THE INSTRUMENT IS ALARA.
  - INSTRUMENT LINES MAY BE CROSSED TO ENSURE HIGH PRESSURE AND LOW PRESSURE PROCESS POINTS ARE CONNECTED TO THE HIGH PRESSURE AND LOW PRESSURE TAPS, RESPECTIVELY, OF THE INSTRUMENT.

**INSTRUMENT LETTER SYMBOL INDEX  
(UNLESS OTHERWISE NOTED)**

- A. ROOT VALVE
- B. ROOT VALVE
- C. ROOT VALVE BACKUP VALVE
- D. ROOT VALVE BACKUP VALVE
- E. BLOWDOWN VALVE
- F. INSTRUMENT ISOLATING VALVE
- G. THREE VALVE MANIFOLD: G1(N.O.), G2(N.O.) & G3(N.C.)
- H. INSTRUMENT DRAIN VALVE
- J. VENT VALVE
- K. CALIBRATION POINT VALVE
- L. INSTRUMENT SNUBBERS
- M. BLOWDOWN VALVE
- N. FIVE VALVE MANIFOLD: G1(N.O.), G2(N.O.), G3(N.C.), G4(N.C.), G5(N.C.)
- P. TWO VALVE MANIFOLD: G1(N.O.), & G2(N.C.)

**INSTRUMENT VALVE IDENTIFICATION**

- VLV-39-04-8-A
- VALVE, LETTER SYMBOL AS SHOWN ON DRAWING F-45136-C, SH. 1
  - FIGURE NUMBER AS SHOWN ON DRAWING F-45136-C, SH. 1
  - INSTRUMENT EQUIPMENT IDENTIFIER PER MEL-1
  - COMPONENT ID PREFIX PER ME-1

NOTE: THIS DRAWING WAS CREATED USING  
COMPUTER AIDED DRAFTING SOFTWARE  
DO NOT MAKE MANUAL CHANGES

CONSTELLATION ENERGY GROUP		NINE MILE POINT NUCLEAR STATION UNIT NO. 1	
APP: APP		DATE: 395.05-3876-280000-5996-7395	
INSTRUMENTATION VALVE SCHEDULE			
P&I DIAGRAM			
REV. NO.	SCALE	DWG NO.	REV.
1	NONE	LR-F45136-C	1

D086