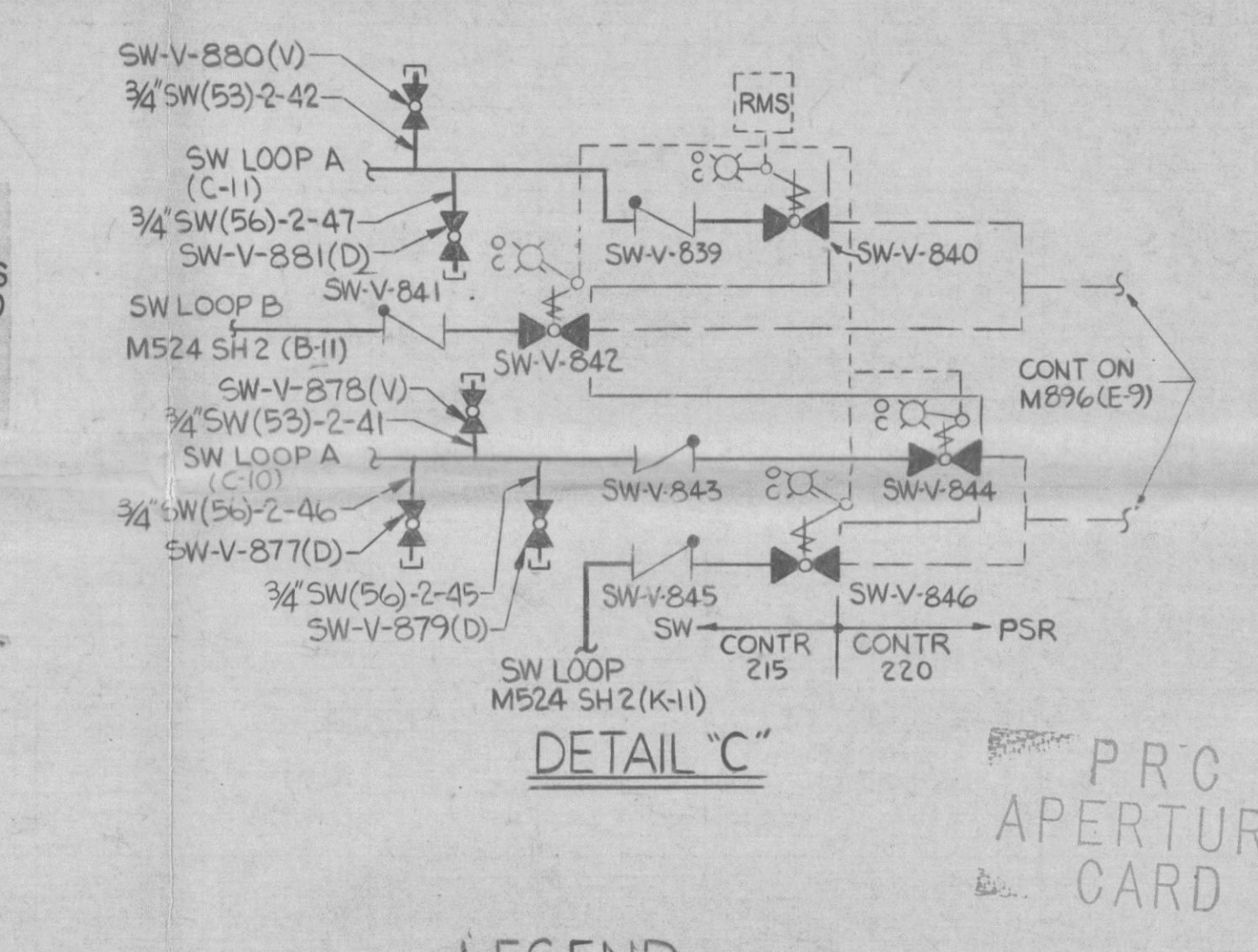
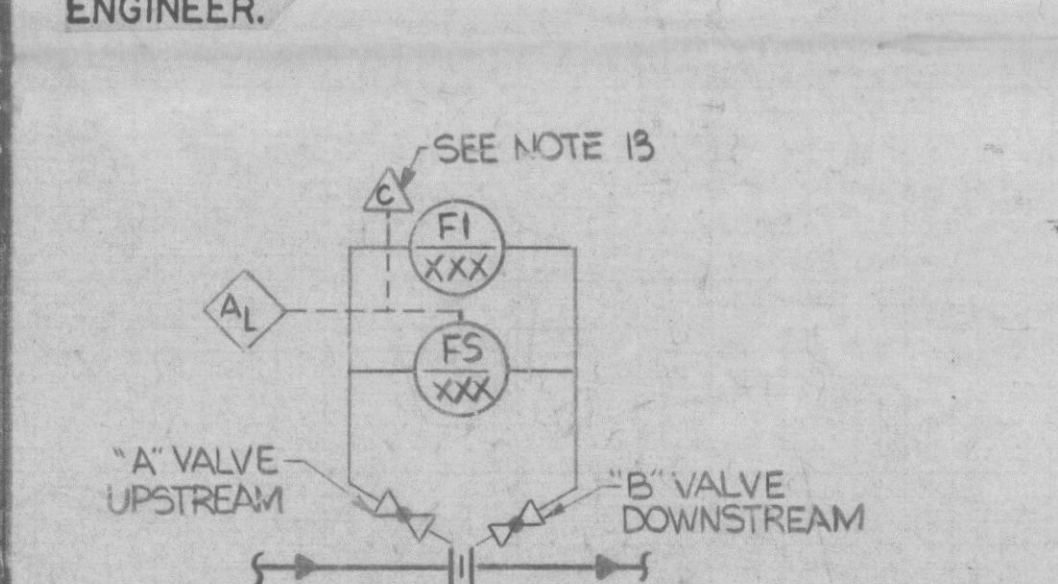


- NOTES:**
- 1- ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
 - 2- VALVES SW-V-2A, B AND SW-V-29 MUST BE CLOSED PRIOR TO PUMP START. VALVES WILL BE INTERLOCKED WITH PUMPS TO PREVENT PUMP START UNLESS VALVE IS CLOSED. VALVES WILL RUN CLOSE ON PUMP STOP. VALVES ARE BUTTERFLY TYPE.
 - 3- PVC-38A AND 38B ARE PROVIDED TO MAINTAIN SYSTEM PRESSURE ABOVE RHR SYSTEM PRESSURE DURING COOL DOWN CONDITIONS.
 - 4- ALL ITEMS MARKED * ARE FURNISHED WITH ASSOCIATED EQUIPMENT.
 - 5- ALL INSTRUMENTS ON THIS DWG. TO BE IDENTIFIED BY PREFIX "SW" UNLESS SPECIFICALLY NOTED (E.G. -SW-PS-40).
 - 6- ALL PIPING AND VALVES AND ASSOCIATED COMPONENTS IN THE SW SYSTEM ON THIS DWG. EXCEPT AS STATED IN NOTE 17 SHALL BE CLASSIFIED AS FOLLOWS:
SEISMIC CATEGORY I
QUALITY CLASS I
CODE GROUP C
EXCEPT AS NOTED ON M619 INSTRUMENT CONNECTION DIAGRAMS.
 - 7- ALL PIPING AND VALVES AND ASSOCIATED COMPONENTS IN THE CW AND TMU SYSTEMS AS INDICATED SHOWN ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS:
SEISMIC CATEGORY II
QUALITY CLASS II
CODE GROUP D
 - 8- ALL PIPING SHALL BE SUPPLIED AND ERECTED BY THE 215 CONTRACT EXCEPT AS NOTED OTHERWISE.
 - 9- FOR ALL PIPING ARRANGEMENTS AT COOLING COILS SEE DETAIL A.
 - 10- THIS EQUIPMENT IS NORMALLY CONTROLLED FROM THE MAIN CONTROL ROOM. IF THE MAIN CONTROL ROOM MUST BE VACATED THIS CONTROL POINT MAY BE ISOLATED AND CONTROL TRANSFERRED TO THE REMOTE SHUTDOWN PANEL C61-POD1.
 - 11- ELECT. HEAT TRACING: 20 WATTS/LIN. FT. CHEMEX, TYPE SATVI WITH 34 AWG S.S. OVERSHIELD OR EQUAL.
 - 12- VALVES WILL CLOSE ON SW PUMP SHUT DOWN.
 - 13- THESE COMPUTER INPUT POINTS ARE NOT USED.
 - 14- VALVE EQUIPPED WITH MECHANICAL THROTTLE POSITION LOCK.
 - 15- THE 3/4" DRAIN THREAD-O-LETS ON THE INLET NOZZLES OF PRA-CC-1A AND 1B ARE TO BE PLUGGED. COILS PRA-CC-1A AND PRA-CC-1B MAY BE DRAINED BY USING VALVES SW-V-154F AND SW-V-154G RESPECTIVELY.
 - 16- ON ISOLATION SIGNALS FA, SW-V-69A AND B AND SW-V-70A AND B SHUT AND SW-V-12A AND B OPEN.
 - 17- ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE WITH THE SUBSYSTEM DESIGNATION "SYSTEM (S)" THRU (S) SHALL BE CLASSIFIED AS FOLLOWS:
SEISMIC CATEGORY II @ QUALITY CLASS II
CODE GROUP D
EXCEPT AS NOTED ON M619 INSTRUMENT CONNECTION DIAGRAMS.
 - 18- PIPING REFERRING TO THIS NOTE DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO ATMOSPHERE SHALL BE CLASSIFIED AS FOLLOWS:
SEISMIC CATEGORY II
QUALITY CLASS II
CODE GROUP D
SUPPORTS FOR THIS PIPING SHALL BE CLASSIFIED QUALITY CLASS II, SEISMIC CATEGORY I.
 - 19- THE HPCS DIESEL GENERATOR HEAT EXCHANGER, DCW-HX-15, IS GE SUPPLIED EQUIPMENT AND IN ACCORDANCE WITH THEIR CONTRACT, COMPLIES WITH SECTION VIII, DIVISION 1 OF ASME, 1970 EDITION, SUMMER 1970 ADDENDA.

DESIGN CONTROL FOR START-UP SYSTEM(S)
TRANSFERRED TO WPPSS. ALL FUTURE CHANGES TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED AND APPROVED BY THE SUPPLY SYSTEM. ALL REVISIONS TO THIS DRAWING REQUIRE APPROVAL OF THE SUPPLY SYSTEM AND THE ARCHITECT/ENGINEER.



LEGEND

- 1- ALL VALVES SUPPLIED WITH A(V) EQUAL A 3/4" VENT VALVE.
- 2- ALL VALVES SUPPLIED WITH A(D) EQUAL A 3/4" DRAIN VALVE.

REV	REVISION	DATE	DRWN	CHKD	APPROVED	REV	REVISION	DATE	DRWN	CHKD	APPROVED	REV	REVISION	DATE	DRWN	CHKD	APPROVED
1	PER TASK 3040: PED 218-E-B10(C-D-13, B-14, C-14, G-4, H-3, H-4, J-3) 220-I-137(B-C-10), 215-E-1, 215-E-2, 215-E-3, 220-M-1254(B-C-12, B-C-13), 215-M-1254(B-C-13), 220-I-1236(H-23, J-34) S.U. SYSTEM 55146 TRANSFERRED TO SUPPLY SYSTEM PER W.D. 4300, MEMO DNR-83-1984-1-1972	9/83	DR	DR	DR	2	FOR PREVIOUS REVISIONS, SEE PREVIOUS ISSUE. S.U. SYSTEM 55 TRANSFERRED TO SUPPLY SYSTEM PER W.D. 4300, MEMO DNR-83-785 & 980.	9/83	DR	DR	DR	3	PER TASK 3040: PED 218-E-B10(C-D-13, B-14, C-14, G-4, H-3, H-4, J-3) 220-I-137(B-C-10), 215-E-1, 215-E-2, 215-E-3, 220-M-1254(B-C-12, B-C-13), 215-M-1254(B-C-13), 220-I-1236(H-23, J-34) S.U. SYSTEM 55146 TRANSFERRED TO SUPPLY SYSTEM PER W.D. 4300, MEMO DNR-83-1984-1-1972	9/83	DR	DR	DR

BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
ORADELL, N.J. HEMPSTEAD, N.Y. LOS ANGELES, CALIF.

FLOW DIAGRAM
STANDBY SERVICE WATER SYSTEM
REACTOR/RADWASTE, D.G. BLDG'S AND YARD

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
HANFORD No. 2

ENGINEERING REVIEW: SCALE NONE
ENGR: [Signature] DATE: 10/10/82
DATE: 10/10/82
W.D. O. 2808
DWG. M 524, SH. 1