



- NOTES:**
- "C-P" INDICATES LOCATION OF CATHODIC PROTECTION LEADS TO BE INSTALLED IN ACCORDANCE WITH PARAGRAPH 1.4.14.2, CONTRACT E-69-4.
 - AT SAMPLING POINTS, CONNECTIONS, PROBES AND ROOT VALVES SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT E-69-4. PROBES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT PARA. 3.4.2 AND DWG. SP-07211, FIG. NUMBER AS NOTED. CONTINUATION OF SAMPLE PIPING BY E-70-3.
 - CLASS IS SEISMIC REQUIREMENTS FOR THE "SW-2" & "CW-2" SYSTEMS SHALL APPLY TO THAT PORTION OF THE SYSTEM IDENTIFIED AS CLASS IS SEISMIC HEREON. ALL SW-2 PIPING DOWNSTREAM OF 24"-1490 IS CL-IIS. (REF. E-10)
 - UNLESS OTHERWISE INDICATED ALL PRESSURE AND/OR FLOW INSTRUMENT ROOT LINES SHALL BE 3/4" ROOT VALVES SHALL BE 3/4"-V2325 EXCEPT AS NOTED. LINE UP TO AND INCLUDING ROOT VALVE SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT E-69-4.
 - ALL TEMPERATURE, TEST AND PROTECTING WELL PENETRATIONS SHALL BE 1" NPT UNLESS OTHERWISE NOTED.
 - 156" CW-1, 108" CW-2, 84" CW-2 TEMPERING LINE AND PORTIONS OF THE CW-1, CW-2 AND SW-2 SYSTEMS ARE NOT IN CONTRACT E-69-4. FOR INTERFACES SEE COMPOSITE PIPING DWGS.
 - VENTS & DRAINS SHALL CONFORM (FULL LENGTH) TO THE SYSTEMS DESIGNATION FROM WHICH THEY ORIGINATE.
 - ALL VALVE NUMBERS IN PARENTHESIS () ARE NUMBERS TO BE USED IN OPERATING PROCEDURES. THESE NUMBERS ARE ASSIGNED BY NPFD AND WILL NOT BE SHOWN ON PIPING DRAWINGS.
 - ALL VALVES DOWNSTREAM OF SW-116W ARE IN THE CIRCULATING WATER SYSTEM (CW) UNLESS DESIGNATED OTHERWISE. ALL VALVES UPSTREAM AND INCLUDING SW-116W ARE IN THE SERVICE WATER SYSTEM (SW) UNLESS DESIGNATED OTHERWISE.
 - WHERE LINES ARE INTERCONNECTED AND CONTINUED ON OTHER DRAWINGS, ZONE NUMBERS ARE APPROX. ONLY.
 - PRESSURE REGULATING VALVE FOR TWS SCREEN WASH SUPPLY IS MANUALLY ADJUSTABLE.
 - INSTRUMENT ABANDONED IN PLACE.
 - HOSE CONNECTION FOR CHEMICAL INJECTION LINE.
 - CHEMICAL INJECTION QUILL AND ASSOCIATED COMPRESSION GLAND, CHECK VALVE(S), AND HOSE CONNECTION MAY OR MAY NOT BE INSTALLED. IF NOT INSTALLED, ISI BOUNDARY/CLASS BREAK REVERTS TO NEAREST CLOSED VALVE (1519, 1523) FOR CLASS 3 BOUNDARIES.
 - CHEMICAL INJECTION LINES FROM SW/CW CHEMICAL TREATMENT SYSTEM TO SW/CW BAYS, THE SW/CW CHEMICAL TREATMENT SYSTEM, INCLUDING ISOLATION VALVES CW-V-1043, CS-V-1044, CW-V-1045, CW-V-1046, SW-V-1536 & SW-V-1537 IS A PROCEDURE 0.31 EXEMPT SYSTEM CONTROLLED BY THE CHEMISTRY DEPARTMENT. THESE INJECTION LINES TO THE SW/CW BAYS ARE PLASTIC TUBING AND ARE NOT PART OF CONTRACT E-69-4.

REVISIONS TO THIS DRAWING REQUIRES A REVISION TO THE CORRESPONDING ISOKEY.

FOR PREVIOUS REVISIONS, SEE SUPERSEDED CARDS.

VERSIONS/REVISIONS BY N.P.P.D.			
NO.	DESCRIPTION	DFTI	DATE
1	AS BUILT	DR	10/27/2015
2	AS BUILT	DR	10/27/2015

SIGNIFICANT NUMBER		DRAWN		DATE	
GROUP	NO.	DATE	DATE	DATE	DATE
1	1	10/27/2015	10/27/2015	10/27/2015	10/27/2015

AS BUILT

454003586

STATUS: Release
 STATUS DATE: 10/27/2015
 DS APPROVED: JOMADDO
 VER: AN REV: 90 SIZE: F

AS BUILT

FLOW DIAGRAM
 CIRCULATING, SCREEN WASH & SERVICE
 WATER SYSTEMS
 COOPER NUCLEAR STATION

2006 SH 1

BURNS & ROE

00017906

NOTE: ALL ITEMS MARKED THIS [A] ARE "AS BUILT" ITEMS AND ARE NOT SHOWN ON PIPING DRAWINGS.