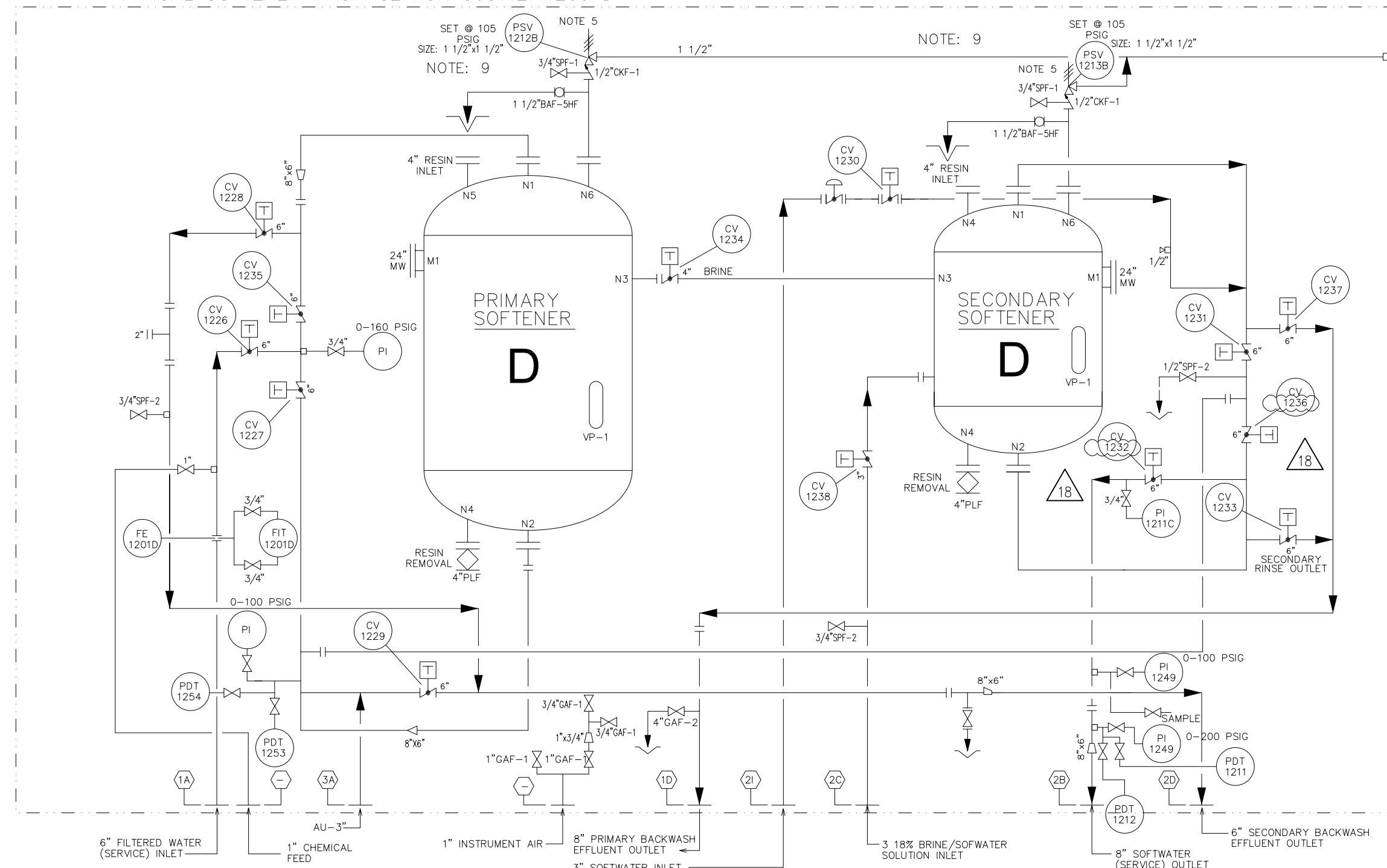


TYPICAL SOFTENER PACKAGE FOR 8037.ZF.1203 D

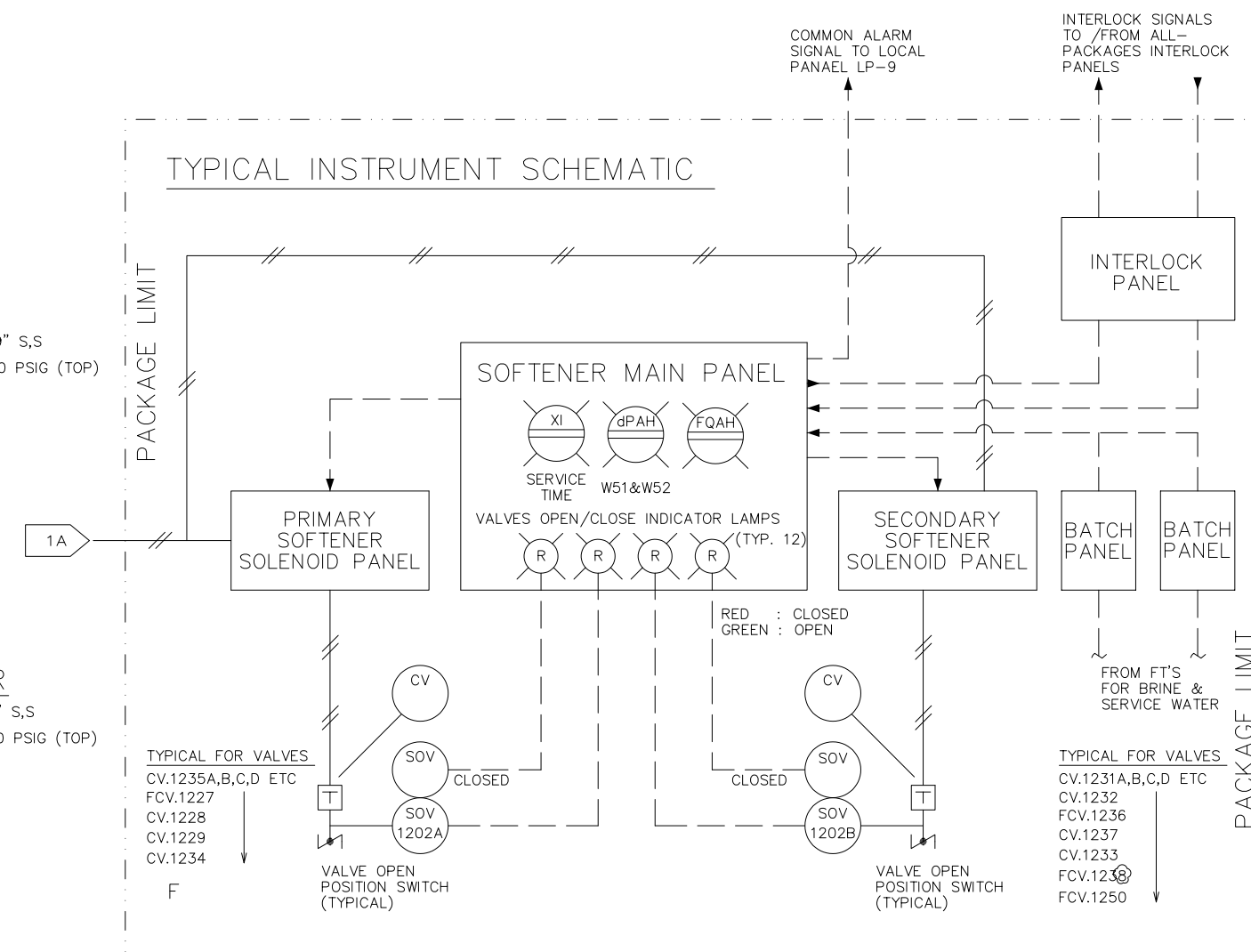


PRIMARY SOFTENER

DIMENSIONS	: 12'-0" DIA. X 9'-9" S.S
DESIGN PRESSURE	: 115 PSIG (BOT)/100 PSIG (TOP)
LINED WITH	: ENGARD 482
RESIN CAPACITY	: 243 FT ³
DESIGN TEMP	: 250°F
CAPACITY	: 1543 FT ³

SECONDARY SOFTENER

DIMENSIONS	: 9'-0" DIA. X 6'-6" S,S
DESIGN PRESSURE	: 115 PSIG (BOT)/110 PSIG (TOP)
LINED WITH	: FNGARD 482
RESIN CAPACITY	: 243 FT3
DESIGN TEMP	: 250°F
CAPACITY	: 604 FT3

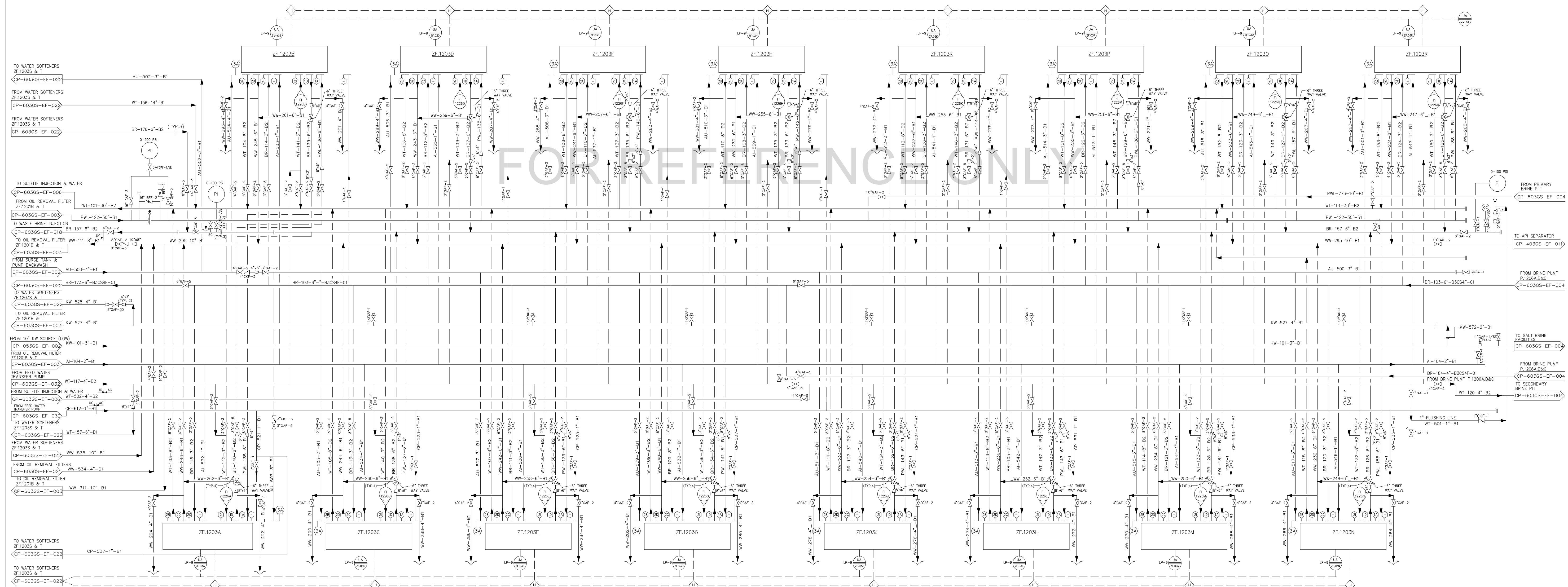


CONTROL VALVES SEQUENCE CHART

OPERATION STEP	SOFTENER FUNCTION MODE	VALVE POSITION							
		CY 025 C/W 026	SBR CY 027 C/W 028	CY 029 C/W 030	CY 031 C/W 032	SBR CY 033 C/W 034	CY 035 C/W 036	CY 037 C/W 038	CY 039 C/W 040
6	NORMAL SERVICE	X	X	X	X	X	X	X	X
1	BACKWASH (PRIMARY)	X	X	X	X	X	X	X	X
REF	BACKWASH (SECONDARY)	X	X	X	X	X	X	X	X
2	REGENERATION (BRINE INTRO)	X	X	X	X	X	X	X	X
3	BRINE DISPLACEMENT (PRM'Y)	X	X	X	X	X	X	X	X
4	RINSE (PRIMARY)	X	X	X	X	X	X	X	X
5	RINSE (SECONDARY)	X	X	X	X	X	X	X	X

 INDICATION VALVE IN OPEN POSITION

 INDICATION VALVE IN CLOSED POSITION



NOTES:

- | | | |
|---|---|---|
| 1. ALL EQUIPMENT, INSTRUMENT AND LINE NUMBERS ON THIS DRAWING HAVE THE PREFIX R73 UNLESS OTHERWISE NOTED. | 4. BACKWASH OF SECONDARY SOFTENERS TO BE CARRIED OUT AUTOMATICALLY BY PUSH BUTTON FURNISHED ON THE PANEL. | 6. THE PDI ON ZF-1203A HAS BEEN DEMOLISHED |
| 2. THE LETTERS 'I' & 'O' ARE NOT USED IN THE EQUIPMENT NUMBERING SYSTEM. | 5. PSV'S FOR SOTTENING PACKAGE UNITS ZF-1203B THRU ZF-1203JK TO BE TAGGED 1212B, 1212C,.....1212K FOR PRIMARY SOFTENER A & 1213B, 1213C.....1213K FOR SECONDARY SOFTENER. | 7. THE N4 ON ZF-1203A IS BLUNDED ONLY |
| 3. FOR STANDARD PAID LEGEND SEE THE FOLLOWING DRAWINGS
- FOR PIPING & EQUIPMENT : DWG. NO. CH-0505N-FI-002
- FOR INSTRUMENTATION : DWG. NO. CH-0505N-FI-003 | | 8. THE FIT.1230 # ON ZF-1203A HAS BEEN DEMOLISHED |

9. PSV SIZE:
SOFTENER # 1203 D (PRIMARY: 1 1/2"x1 1/2"), (SECONDARY: 1 1/2"x1 1/2")

10. LINE NO. WW-541-8"-B1 TO BE USE FOR WATER SOFTENER ZF.1203 P, Q & R

INTERLOCK NOTES:

1. ONLY 2 PACKAGED SOFTENER UNITS ARE TO BE IN "REGENERATION" AT A TIME

16	18-01-22	UPDATE AS PER PSI Y&V (ID #7650)	RVP	PAW			RIS					
17	11-12-18	AS BUILT AS PER PSI REVALUATION MOC#81540	SM	AM			TSX					
16	21-09-18	UPDATE AS PER PSI Y&V MOC#307724	HERT	PUTM			TSX					
15	16-12-15	AS BUILT PSM-PSI REMEDIATION PROJECT UNDER JOB NO.2445	APR /ND	JX	BAY	BAY						
14	20-07-15	UP-DATE FOR SMO FLARE & RELIEF PROJECT (JOB NO.#2332)	RDY	EVK	MRD	MRD						
13	03-11-11	AS BUILT DONE BY T-JAKARTA	YQI	DKM	IKS	AKH						
12A	30-09-11	AS BUILT DONE BY T-JAKARTA (ISSUED FOR APPROVAL)	AP	DKM	IKS	AKH						
REV.	DATE	DESCRIPTION	BY	CHKD	DESIGN ENGINEER	PROJ ENGINEER	PSI COORD				REFERENCE	DRAWINGS

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	DRAWN	MST. 06/09/86
	CHECKED	WW. 31/10/86
	DESIGN ENG'R.	INP. 13/09/86
	DESIGN TEAM LEADER	
	PROJECT ENG'R.	IHR. 22/10/86 OK 23/10/86
	OPR'G DEPT.	

PIPING & INSTRUMENT DIAGRAM
WATER SOFTENERS
WATER TREATMENT PLANT
CENTRAL GATHERING STATION
DURI AREA-3

DURI-WTPF03GS000-PRO-PID-IBU-0027-03

ITC NO.	21/0E-PMF/RP/2011 21/0E-PMF/2011
SCALE : NTS	
SIZE :	
DRAWING NO.	

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CP-603GS-EF-005-18