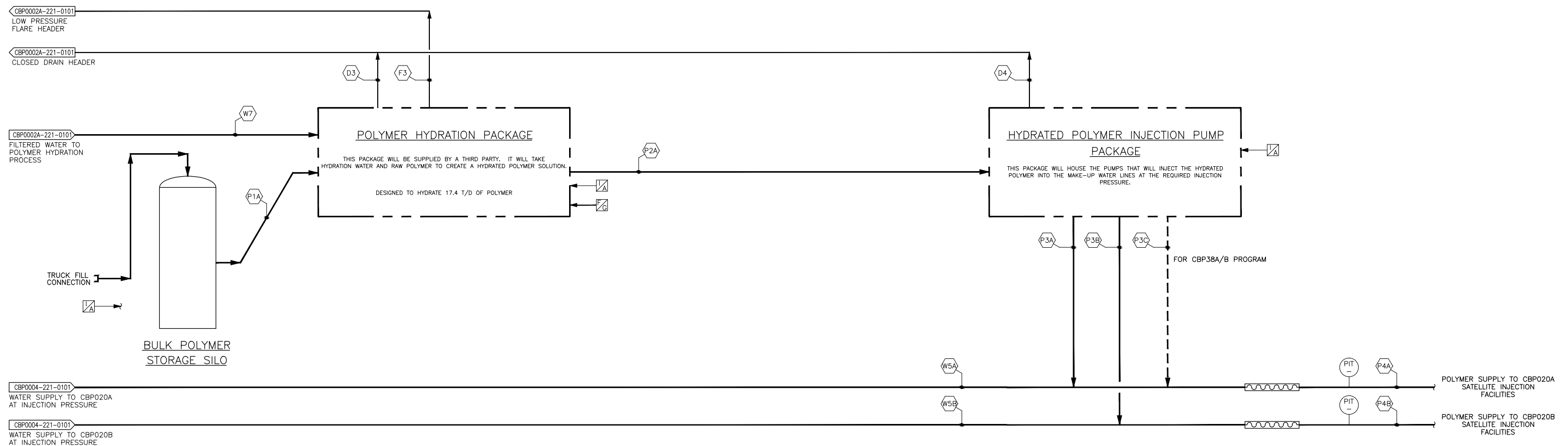



NODE	DESCRIPTION	PRESSURE (kPa)			FLOW RATE (m ³ /d)			COMMENTS
		MIN	NOM	MAX	MIN	NOM	MAX	
P1A	BULK POLYMER TO POLYMER HYDRATION SKID							
P2A	POLYMER MOTHER SOLUTION	-	670	-	-	1,160	1,440	NOM IS AT 17.4 T/D @ 15,000PPM, PIPE DESIGN TO BE BASE ON MAX.
P3A	MOTHER SOLUTION AT INJECTION PRESSURE TO CBP020A	1,725	7,240	9,180	-	173	467	
P3B	MOTHER SOLUTION AT INJECTION PRESSURE TO CBP020B	1,725	7,240	9,180	-	173	467	
P3C	MOTHER SOLUTION AT INJECTION PRESSURE TO CBP038A/B FUTURE	1,725	7,240	9,180	-	173	467	
P4A	FINAL POLYMER SOLUTION AT INJECTION PRESSURE TO CBP020A	1,725	7,240	9,180	-	1,300	3,500	2,000 PPM CONCENTRATION
P4B	FINAL POLYMER SOLUTION AT INJECTION PRESSURE TO CBP020B	1,725	7,240	9,180	-	1,300	3,500	2,000 PPM CONCENTRATION
P4C	FINAL POLYMER SOLUTION AT INJECTION PRESSURE TO CBP038A/B FUTURE	1,725	7,240	9,180	-	1,300	3,500	2,000 PPM CONCENTRATION
D3	CLOSED DRAIN FROM POLYMER HYDRATION SKID	-	-	-	-	-	-	
D4	CLOSED DRAIN FROM MOTHER SOLUTION INJECTION PUMP PACKAGE	-	-	-	-	-	-	
F3	TANK VENT GASES FROM POLYMER HYDRATION SKID	ATM	ATM	ATM	-	-	-	TANK TO BE GAS BLANKETED



DRAWING NO.		REFERENCE DRAWINGS		CANADIAN NATURAL		REV.		DESCRIPTION		BY		DATE		CHK		APP.		CLIENT		DRAWN BY: K. KWAN		DATE 2012-03-07		 Canadian Natural TITLE BRINTNELL (1362) 10-13-080-21W4 BARNEY PAD #1A - POLYMER HYDRATION FACILITY PROCESS FLOW DIAGRAM		SCALE N.T.S.		JOB NO. -		DRAWING NO. BAP001A-221-0102		REV. B	
						B		REVISED AS PER MARK-UPS		HN		2012-03-20		CS						DESIGNED BY: C. STURDY		DATE 2012-03-07											
						A		ISSUED FOR ENGINEERING AND DESIGN		KK		2012-03-07		CS						CHECKED BY:		DATE											
																				APPROVED BY:		DATE											
																				CLIENT BY:		DATE											