

**TOP SIDE INTEGRITY PROGRAM 2007**  
**SUMMARY OF PIPING SYSTEM AT MIKE - MIKE F/S**

Periodic of Inspection : June 30 upto July 21' 2007  
 Date of Inspection : June 30 upto July 21' 2007  
 Location of Piping system : Mike - Mike F/S

No.	PIPING DESIGN DATA														INSPECTION DATA			CALCULATION			
	P & ID No.	Line Number	From	To	Class	NPS	Mat'l. Spec.	Sch	Temp. Design (°F)	CA (inch)	E	OD (inch)	Nom. Thk (inch)	Design Pressure (psig)	MAWS (psig)	Point/ Location	Visual	Thick. Meas. (mm)	Thick. Min. (mm)	Thick. Req (mm)	MAWP (psig)



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	P & ID No.	Line Number	From	To	Class	NPS	Mat'l. Spec.	Sch	Temp. Design (°F)	CA (inch)	E	OD (inch)	Nom. Thk (inch)	Design Pressure (psig)	MAWS (psig)	Point/ Location	Visual	Thick. Meas. (mm)	Thick. Min. (mm)	Thick. Req (mm)	MAWP (psig)	Result	
1	ARD-10450-A-4105C	12"-B-375"-P-006	K-001-AX	C-001-AX	B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E1	INSULATION						
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P2							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E3							
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P4							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E5							
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P6							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E7							
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P8							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E9							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E10							
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	T11							
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P12		Good	16.02	14.75	5.21	1558	Accepted
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E13		Good	16.99	15.72	5.21	1660	Accepted
B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E14	Good	17.13	15.86	5.21	1675	Accepted						
B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P15	Good	16.84	15.57	5.21	1644	Accepted						
2	ARD-10450-A-4106C	12"-B-375"-P-009	V-001-BX	K-001-BX	B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E1	Good	8.93	7.66	5.21	809	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P2	Good	8.55	7.28	5.21	769	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E3	Good	9.29	8.02	5.21	847	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P4	Good	9.13	7.86	5.21	830	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E5	Good	9.00	7.73	5.21	816	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P6	Good	8.60	7.33	5.21	774	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E7	Good	9.21	7.94	5.21	838	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P8	Good	8.21	6.94	5.21	733	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E9	Good	9.29	8.02	5.21	847	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P10	Good	8.67	7.4	5.21	781	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E11	Good	9.40	8.13	5.21	859	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P12	Good	8.92	7.65	5.21	808	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E13	Good	9.82	8.55	5.21	903	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	R14	Good	12.13	10.86	5.21	1147	Accepted	
B	12	SA-234-B	STD	800	0.05	1	16	0.38	550	17100	R14	Good	10.10	8.83	6.54	743	Accepted						
3	ARD-10450-A-4106C	8"-D-060-P-010	K-001-BX	C-001-BX	D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E1	INSULATION						
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P2							
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E3							
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P4							
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E5							
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P6							
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E7							
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P8							
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E9							
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P10							
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	T11		Good	14.26	12.99	7.69	2028	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	R12		Good	13.14	11.87	7.69	1853	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	R12		Good	9.11	7.84	7.69	1224	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E13		Good	13.13	11.86	7.69	1851	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P14		Good	13.49	12.22	7.69	1908	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E15		Good	12.97	11.7	7.69	1826	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P16		Good	12.97	11.7	7.69	1826	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E17		Good	13.03	11.76	7.69	1836	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P18		Good	13.00	11.73	7.69	1831	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E19		Good	14.31	13.04	7.69	2036	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P20		Good	13.30	12.03	7.69	1878	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E21		Good	14.29	13.02	7.69	2033	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P22		Good	12.97	11.7	7.69	1826	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	E23		Good	13.56	12.29	7.69	1919	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	T24		Good	13.42	12.15	7.69	1897	Accepted
					D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P25		Good	13.42	12.15	7.69	1897	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	T26		Good	13.72	12.45	7.69	1944	Accepted
					D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	C27		Good	13.26	11.99	7.69	1872	Accepted
D	8	SA-106-B	80	500	0.05	1	8.625	0.50	1200	17100	P28	Good	12.97	11.7	7.69	1826	Accepted						
D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	T29	Good	13.25	11.98	7.69	1870	Accepted						
D	8	SA-234-B	80	500	0.05	1	8.625	0.50	1200	17100	C30	Good	13.26	11.99	7.69	1872	Accepted						
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E1	Good	9.62	8.35	5.21	882	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P2	Good	9.08	7.81	5.21	825	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E3	Good	9.16	7.89	5.21	833	Accepted	

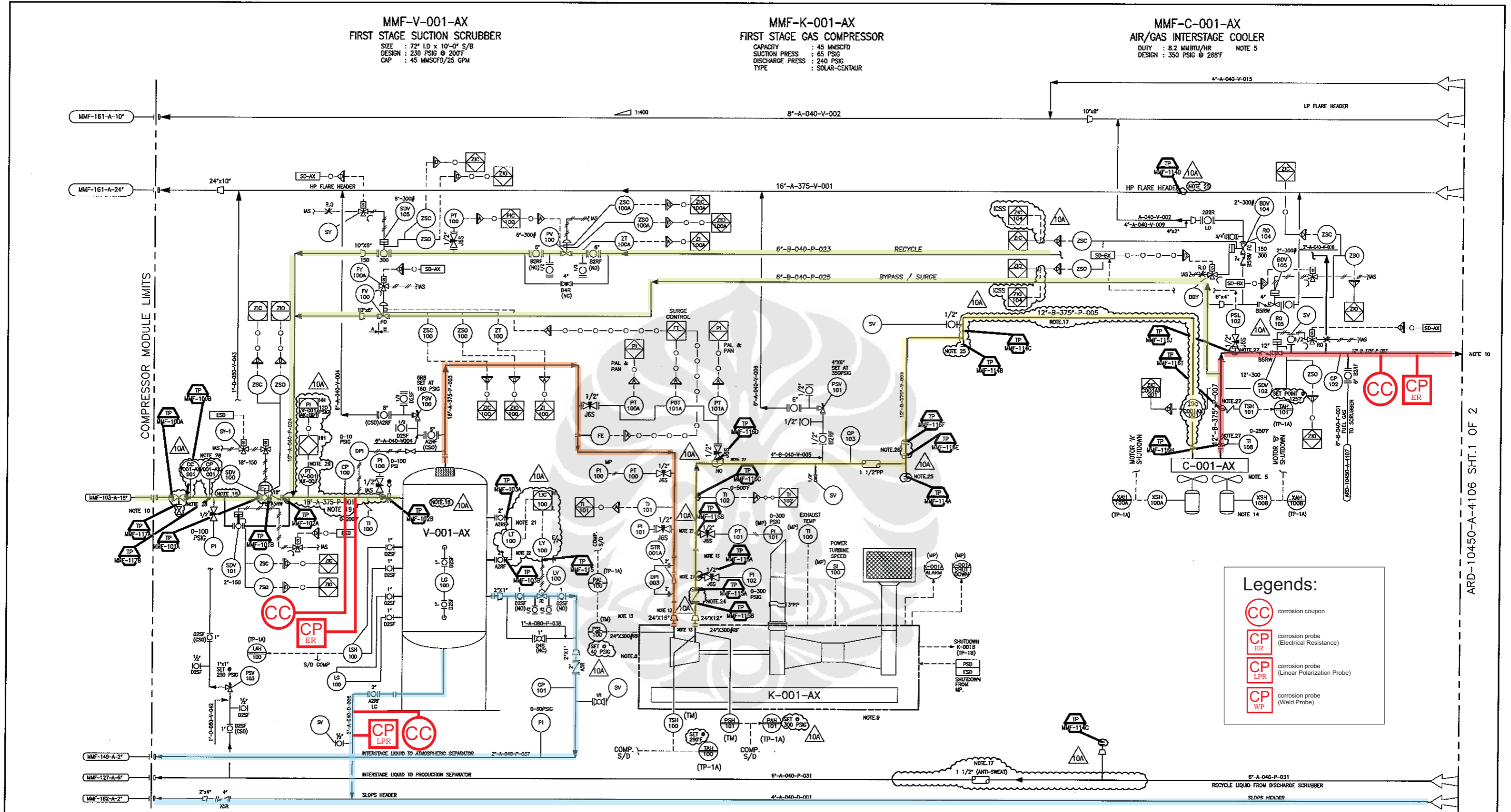
Evaluasi sistem pemantauan... Bara Mahendra Sukatun, FSI UI, 2008

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4	ARD-10450-A-4105C	12"-B-375"-P-007	C-001-AX	V-001-BX	B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P4	Good	8.92	7.65	5.21	808	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	T5	Good	10.02	8.75	5.21	924	Accepted	
					B	12	SA-106-B	STD	800	0.05	1	12.75	0.38	550	17100	P6	Good	8.52	7.25	5.21	766	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	E7	Good	8.92	7.65	5.21	808	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	T8	Good	11.27	10	5.21	1056	Accepted	
					B	12	SA-234-B	STD	800	0.05	1	12.75	0.38	550	17100	R9	Good	9.15	7.88	5.21	832	Accepted	





- NOTES:**
- DELETED.
  - DELETED.
  - RESTAGE COMPRESSOR PER SOLAR RECOMMENDATION.
  - DELETED.
  - REFER P&ID MMF-MD-014 SUCTION/DISCHARGE FOR INTERCONNECTION.
  - DELETED.
  - DELETED.
  - SPOOLS ALREADY EXIST BOLTS AND GASKET TO BE REPLACE AT TIE-IN POINT.
  - MMF-C-001-AX MOTORS TO BE REPLACED.

- NOTES:**
- SDV TO BE REPLACED. SCOPE OF WORK UNDER HOLD (SOLAR/REHAB).
  - DELETED.
  - REINSULATE PIPING.
  - EQUIPMENT TO BE RE-PAINTED, GASKET TO BE REPAIR.
  - LINE TO BE REPLACED. TIE IN POINT WILL BE FINALIZED.
  - DELETED.
  - NEW LEVEL TRANSMITTER TO BE INSTALLED.
  - INTEGRAL POSITIONER (FIELD BUS) TO BE INSTALLED ON THE VALVE.
  - NEW SINGLE VALVE WITH DBS SPECIFICATION TO BE INSTALLED.
  - NEW CHECK VALVE TO BE INSTALLED.
  - TO BE BLUNDED (WELDED/HARGED)
  - SPOOL PIECE TO BE INSTALLED. VALVE TO BE REMOVED.
  - THREADED TO BE CHANGED WITH WELDED CONNECTION.
  - CC AND CP TO BE INSTALLED.
  - NEW ELECTRONIC PRESSURE TRANSMITTER TO BE INSTALLED.

**VESSEL (MMF-V-001-AX) LEVELS**

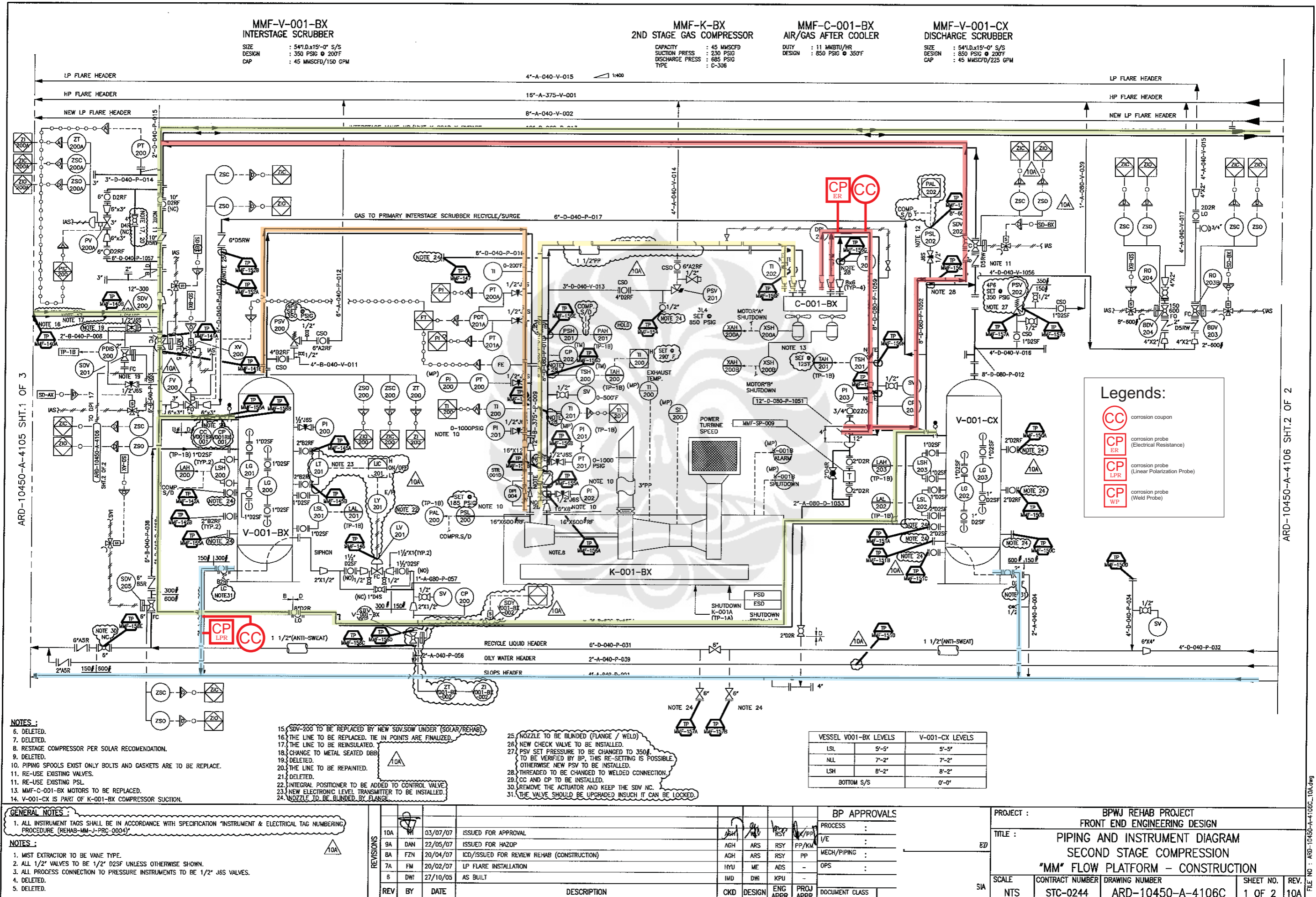
LSL	15"
NLL	35"
LSH	55"
BOTTOM S/S ▼ 0'-0"	

- GENERAL NOTES:**
- ALL INSTRUMENT TAGS SHALL BE IN ACCORDANCE WITH SPECIFICATION 'INSTRUMENT & ELECTRICAL TAG NUMBERING PROCEDURE (REHAB-MM-J-PRC-004)'
- NOTES:**
- DELETED.
  - ALL 1/2" VALVES TO BE 1/2" O2SF UNLESS OTHERWISE SHOWN.
  - ALL PROCESS CONNECTION TO PRESSURE INSTRUMENTS TO BE 1/2" JGS VALVES.
  - INSTRUMENT DETAIL DRAWING CAN BE LOOKED AT DRAWING CAT. SOLAR 01736A-A149743.
  - AIR COOLER BUNDLE FOR MMF-C-001-AX IS TO BE REPLACED WITH NEW AIR COOLER BUNDLE TO FIT ON THE EXISTING FRAME.

REV	BY	DATE	DESCRIPTION	CKD	DESIGN	ENG APPR	PROJ APPR	BP APPROVALS
10A	IRW	03/07/07	ISSUED FOR APPROVAL	AGH	WLV	RSY	PP/KM	PROCESS :
9A	DAN	23/05/07	ISSUED FOR HAZOP	AGH	WLV	RSY	PP/KM	VE :
8A	TGH	20/04/07	IDC/ISSUED FOR REVIEW REHAB (CONSTRUCTION)	AGH	WLV	RSY	PP	MECH/PIPING :
7A	FM	20/02/07	IFR-LP FLARE INSTALLATION	HYO	ME	ADS	-	OPS :
6	DWI	27/10/05	AS-BUILT	IMD	DWI	KPU	-	

PROJECT :		BPWJ REHAB PROJECT		
TITLE :		FRONT END ENGINEERING DESIGN		
		PIPING AND INSTRUMENT DIAGRAM		
		FIRST STAGE COMPRESSION		
		"MM" FLOW PLATFORM - CONSTRUCTION		
SCALE	CONTRACT NUMBER	DRAWING NUMBER	SHEET NO.	REV.
NTS	STC-0244	ARD-10450-A-4105C	1 OF 3	10A





- NOTES:**
- DELETED.
  - DELETED.
  - REPLACE COMPRESSOR PER SOLAR RECOMMENDATION.
  - DELETED.
  - PIPING SPOOLS EXIST ONLY BOLTS AND GASKETS ARE TO BE REPLACE.
  - RE-USE EXISTING VALVES.
  - RE-USE EXISTING PSL.
  - MMF-C-001-BX MOTORS TO BE REPLACED.
  - V-001-CX IS PART OF K-001-BX COMPRESSOR SUCTION.
  - SDV-200 TO BE REPLACED BY NEW SDV,SOW UNDER (SOLAR/REHAB).
  - THE LINE TO BE REPLACED. THE IN POINTS ARE FINALIZED.
  - THE LINE TO BE REINSULATED.
  - CHANGE TO METAL SEATED ODBB.
  - DELETED.
  - THE LINE TO BE REPAINTED.
  - DELETED.
  - INTEGRAL POSITIONER TO BE ADDED TO CONTROL VALVE.
  - NEW ELECTRONIC LEVEL TRANSMITTER TO BE INSTALLED.
  - NOZZLE TO BE BLUNDED BY FLANGE.
  - NOZZLE TO BE BLUNDED (FLANGE / WELD)
  - NEW CHECK VALVE TO BE INSTALLED.
  - PSV SET PRESSURE TO BE CHANGED TO 350 PSI TO BE VERIFIED BY BP. THIS RE-SETTING IS POSSIBLE. OTHERWISE, NEW PSV TO BE INSTALLED.
  - THREADED TO BE CHANGED TO WELDED CONNECTION.
  - CC AND CP TO BE INSTALLED.
  - REMOVE THE ACTUATOR AND KEEP THE SDV NC.
  - THE VALVE SHOULD BE UPGRADED INSUCH IT CAN BE LOCKED.

**GENERAL NOTES:**

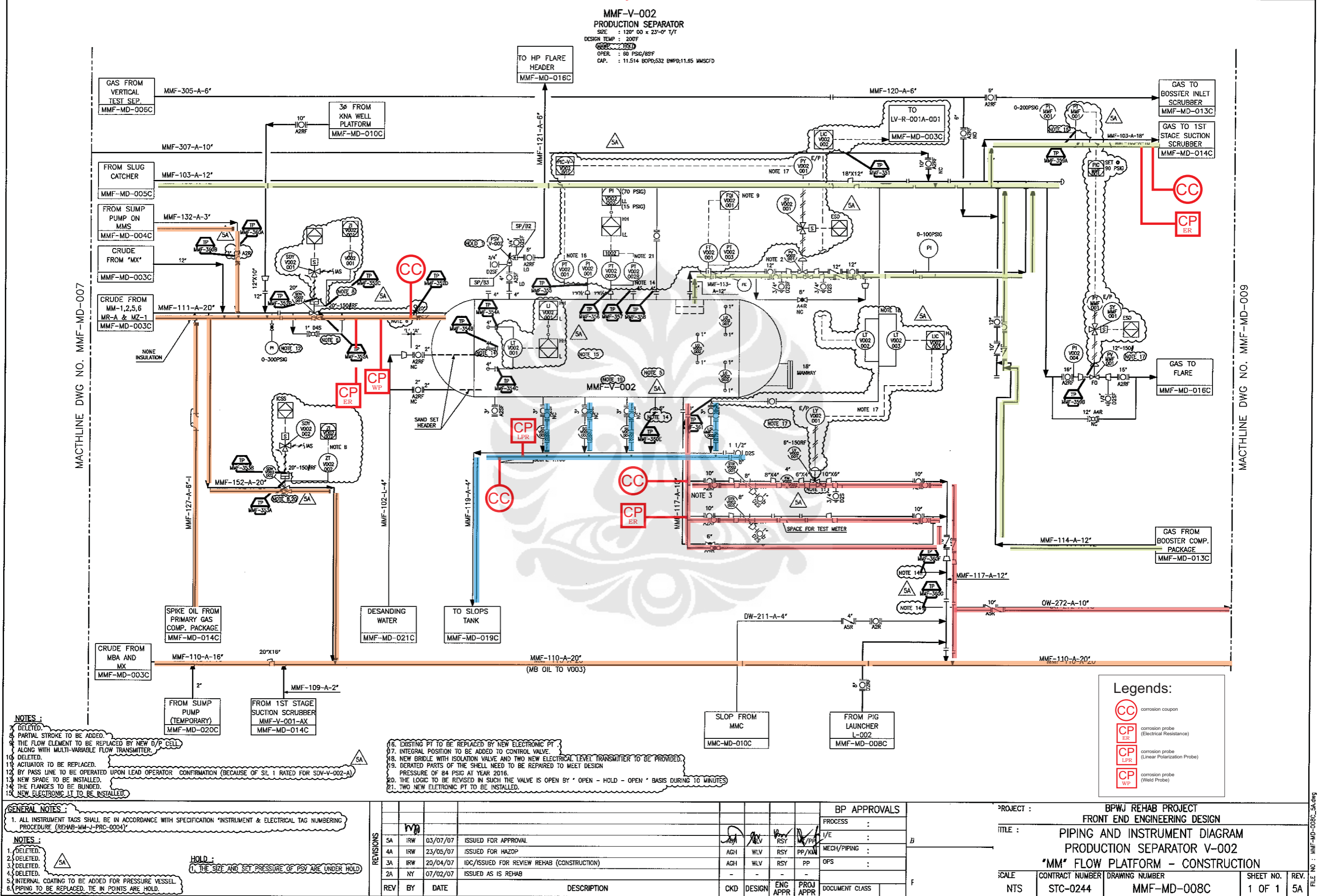
- ALL INSTRUMENT TAGS SHALL BE IN ACCORDANCE WITH SPECIFICATION "INSTRUMENT & ELECTRICAL TAG NUMBERING PROCEDURE (REHAB-MM-J-PRC-0004)"

**NOTES:**

- MIST EXTRACTOR TO BE VANE TYPE.
- ALL 1/2" VALVES TO BE 1/2" D2SF UNLESS OTHERWISE SHOWN.
- ALL PROCESS CONNECTION TO PRESSURE INSTRUMENTS TO BE 1/2" J6S VALVES.
- DELETED.
- DELETED.

REV	BY	DATE	DESCRIPTION	CKD	DESIGN	ENG APPR	PROJ APPR	DOCUMENT CLASS
10A	MM	03/07/07	ISSUED FOR APPROVAL					
9A	DAN	22/05/07	ISSUED FOR HAZOP					
8A	FZN	20/04/07	ICD/ISSUED FOR REVIEW REHAB (CONSTRUCTION)					
7A	FM	20/02/07	LP FLARE INSTALLATION					
6	DW	27/10/05	AS BUILT					

PROJECT :		BPWJ REHAB PROJECT FRONT END ENGINEERING DESIGN		
TITLE :		PIPING AND INSTRUMENT DIAGRAM SECOND STAGE COMPRESSION "MM" FLOW PLATFORM - CONSTRUCTION		
SCALE	CONTRACT NUMBER	DRAWING NUMBER	SHEET NO.	REV.
NTS	STC-0244	ARD-10450-A-4106C	1 OF 2	10A



- NOTES:**
- DELETED.
  - PARTIAL STROKE TO BE ADDED.
  - THE FLOW ELEMENT TO BE REPLACED BY NEW O/P CELL ALONG WITH MULTI-VARIABLE FLOW TRANSMITTER.
  - DELETED.
  - ACTUATOR TO BE REPLACED.
  - BY PASS LINE TO BE OPERATED UPON LEAD OPERATOR CONFIRMATION (BECAUSE OF SL 1 RATED FOR SDV-Y-002-A).
  - NEW SPADE TO BE INSTALLED.
  - THE FLANGES TO BE BUNDED.
  - NEW ELECTRONIC LT TO BE INSTALLED.

- EXISTING PT TO BE REPLACED BY NEW ELECTRONIC PT.
- INTEGRAL POSITION TO BE ADDED TO CONTROL VALVE.
- NEW BRIDLE WITH ISOLATION VALVE AND TWO NEW ELECTRICAL LEVEL TRANSMITTER TO BE PROVIDED.
- DERATED PARTS OF THE SHELL TO BE REPAIRED TO MEET DESIGN PRESSURE OF 84 PSIG AT YEAR 2016.
- THE LOGIC TO BE REVISED IN SUCH THE VALVE IS OPEN BY \* OPEN - HOLD - OPEN \* BASIS DURING 10 MINUTES.
- TWO NEW ELECTRONIC PT TO BE INSTALLED.

- GENERAL NOTES:**
- ALL INSTRUMENT TAGS SHALL BE IN ACCORDANCE WITH SPECIFICATION 'INSTRUMENT & ELECTRICAL TAG NUMBERING PROCEDURE (REHAB-MM-J-PRC-0004)'
- NOTES:**
- DELETED.
  - DELETED.
  - DELETED.
  - DELETED.
  - INTERNAL COATING TO BE ADDED FOR PRESSURE VESSEL.
  - PIPING TO BE REPLACED, TE IN POINTS ARE HOLD.
- HOLD:**
- THE SIZE AND SET PRESSURE OF PSV ARE UNDER HOLD.

REV	BY	DATE	DESCRIPTION	CKD	DESIGN	ENG APPR	PROJ APPR
5A	IRW	03/07/07	ISSUED FOR APPROVAL				
4A	IRW	23/05/07	ISSUED FOR HAZOP	AGH	WLV	RSY	PP/KM
3A	IRW	20/04/07	IDC/ISSUED FOR REVIEW REHAB (CONSTRUCTION)	AGH	WLV	RSY	PP
2A	NY	07/02/07	ISSUED AS IS REHAB				

**BP APPROVALS**

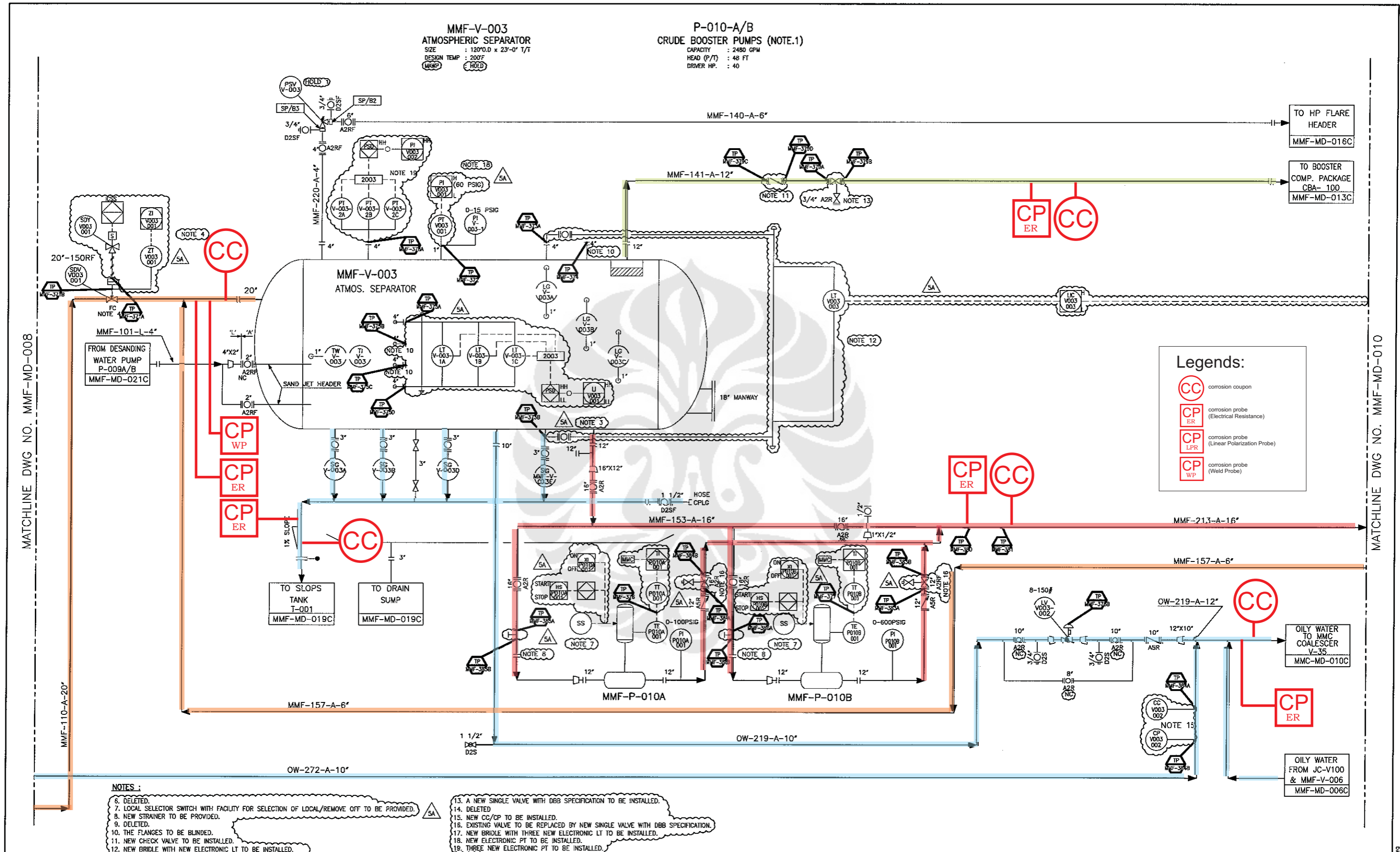
PROJECT: BPWJ REHAB PROJECT  
 FRONT END ENGINEERING DESIGN

TITLE: PIPING AND INSTRUMENT DIAGRAM  
 PRODUCTION SEPARATOR V-002  
 "MM" FLOW PLATFORM - CONSTRUCTION

SCALE: NTS CONTRACT NUMBER: STC-0244 DRAWING NUMBER: MMF-MD-008C SHEET NO.: 1 OF 1 REV.: 5A

Evaluasi sistem pemantauan..., Bara Mahendra Sukaton, FT UI, 2008





<b>GENERAL NOTES :</b> 1. ALL INSTRUMENT TAGS SHALL BE IN ACCORDANCE WITH SPECIFICATION "INSTRUMENT & ELECTRICAL TAG NUMBERING PROCEDURE (REHAB-MM-J-PROC-0004)"				<b>BP APPROVALS</b> PROCESS : MECH/PIPING : OPS :				PROJECT : BPWJ REHAB PROJECT FRONT END ENGINEERING DESIGN TITLE : PIPING AND INSTRUMENT DIAGRAM ATMOSPHERIC SEPARATOR "MM" FLOW PLATFORM - CONSTRUCTION																																											
<b>NOTES :</b> 1. DELETED. 2. DELETED. 3. INTERNAL COATING TO BE ADDED FOR PRESSURE VESSEL 4. PARTIAL STROKE TO BE ADDED 5. DELETED.				<b>REVISIONS</b> <table border="1"> <tr> <th>REV</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> <th>CKD</th> <th>DESIGN</th> <th>ENG APPR</th> <th>PROJ APPR</th> </tr> <tr> <td>5A</td> <td>TGH</td> <td>03/07/07</td> <td>ISSUED FOR APPROVAL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4A</td> <td>IRW</td> <td>22/05/07</td> <td>ISSUED FOR HAZOP</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3A</td> <td>IRW</td> <td>20/04/07</td> <td>IDC/ISSUED FOR REVIEW REHAB (CONSTRUCTION)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2A</td> <td>NV</td> <td>07/02/07</td> <td>ISSUED AS IS REHAB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				REV	BY	DATE	DESCRIPTION	CKD	DESIGN	ENG APPR	PROJ APPR	5A	TGH	03/07/07	ISSUED FOR APPROVAL					4A	IRW	22/05/07	ISSUED FOR HAZOP					3A	IRW	20/04/07	IDC/ISSUED FOR REVIEW REHAB (CONSTRUCTION)					2A	NV	07/02/07	ISSUED AS IS REHAB					SCALE : NTS CONTRACT NUMBER : STC-0244 DRAWING NUMBER : MMF-MD-009C SHEET NO. : 1 OF 1 REV. : 5A			
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