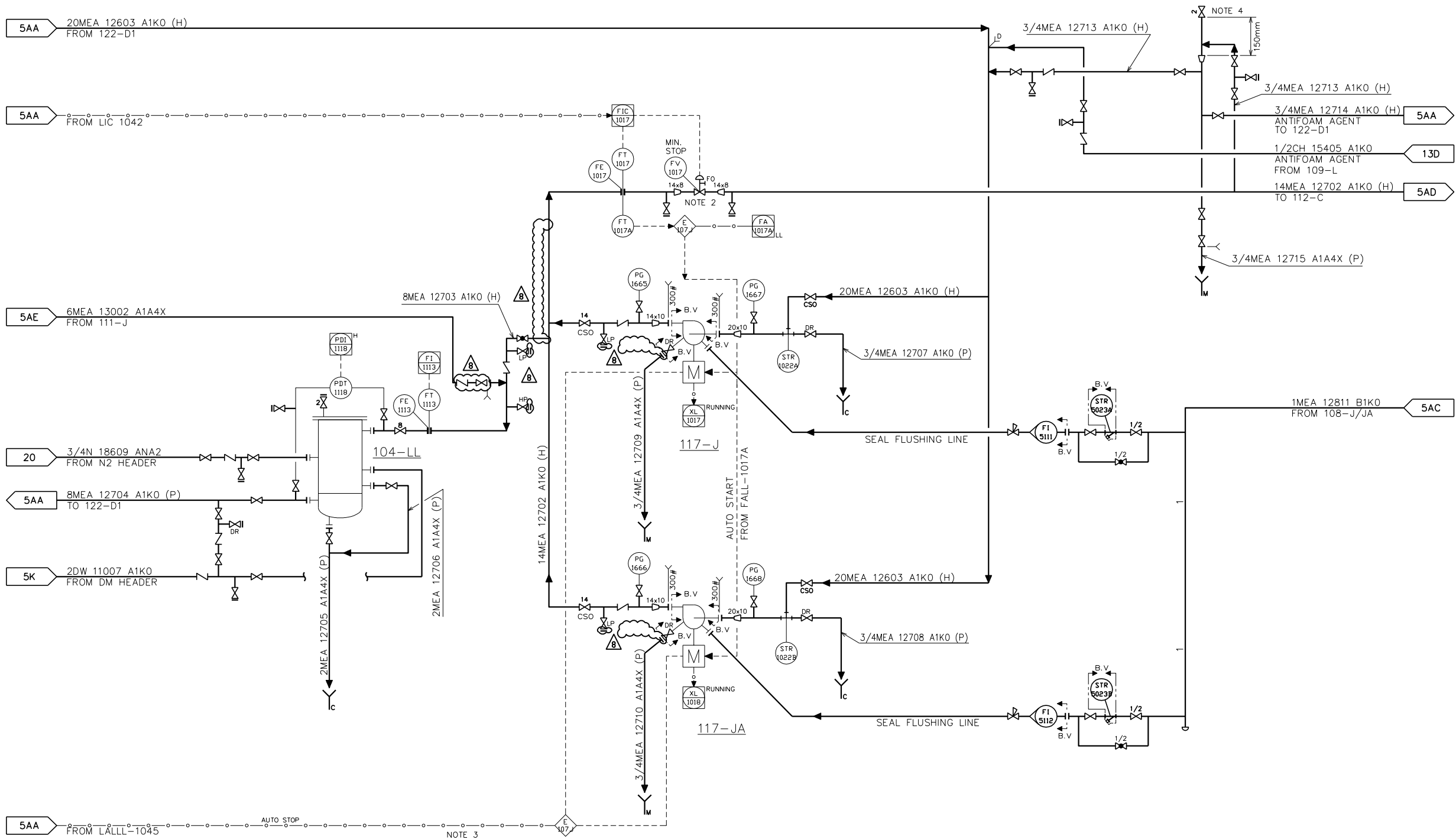


104-LL	
aMDEA SOLUTION FILTER	
DES./OPER.TEMP	°C 110/30
DES./OPER.PRESS	kg/cm2G 9/5
MAX. ALLOW PRESS DROP	kg/cm2 0.1(CLEAN), 1.0(FOULED)
ELEMENT MATERIAL	MAGNETITE TYPE
VESSEL MATERIAL	Body: C.S
CAPACITY	m3/h 67.4 (NORMAL); 77.1 (MAX)

NOTES

- FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
- MINIMUM STOP PROVIDES MINIMUM FLOW FOR 117-J/JA.
- REFER TO WRITE-UP CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
- POT FOR ANTIFOAM INJECTION.



117-J/JA	
SEMI LEAN SOLUTION CIRCULATING PUMP	
SEAL PLAN 32	
DESIGN CAPACITY	m3/h 903.8
SUCT./DISCH.	kg/cm2G 4.04/6.27
HEAD/NPSHR	m 21/6.9
TYPE OF SEAL	MECH. SEAL
POWER	KW 68.3
MAT. CASING/IMPELL.	SCS13A

REV.	DESCRIPTION	DRWN	CHNG	DESIGN	APPROV	DATE	
1	RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	ABA	DU	HCB	ANG	14/11/13
2	RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	ABA	DU	HCB	ANG	29/06/13
3	RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	ABA	DU	HCB	ANG	10/04/13
4	ISSUED FOR CONSTRUCTION (AFC)	EB	ABA	DU	RM	AA	25/11/12
5	RE-ISSUED FOR APPROVAL (AFD-1)	EB	ABA	DU	RM	LI	29/06/12
6	ISSUED FOR APPROVAL (AFD)	EB	ABA	DU	RM	LI	22/04/12
7	ISSUED FOR DETAIL DESIGN (AFC-2)	EB	ABA	JAH	YSA	BSP	14/02/12

PROJECT NAME : KALTIM-5 PROJECT
2500 MTPD AMMONIA AND 3500 MTPD UREA
BONTANG, EAST KALIMANTAN, INDONESIA

CLIENT NAME : **PUPUK KALTIM**
PT. PUPUK KALIMANTAN TIMUR

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PIPING & INSTRUMENT FLOW DIAGRAM
SEMI-LEAN SOLUTION CIRCULATING PUMPS

SCALE : DWG. NO. K5-01-E1-PD-5AB-T
DOC. NO. K5-01-E1-PD-029-T SHEET 029/073 REV.8