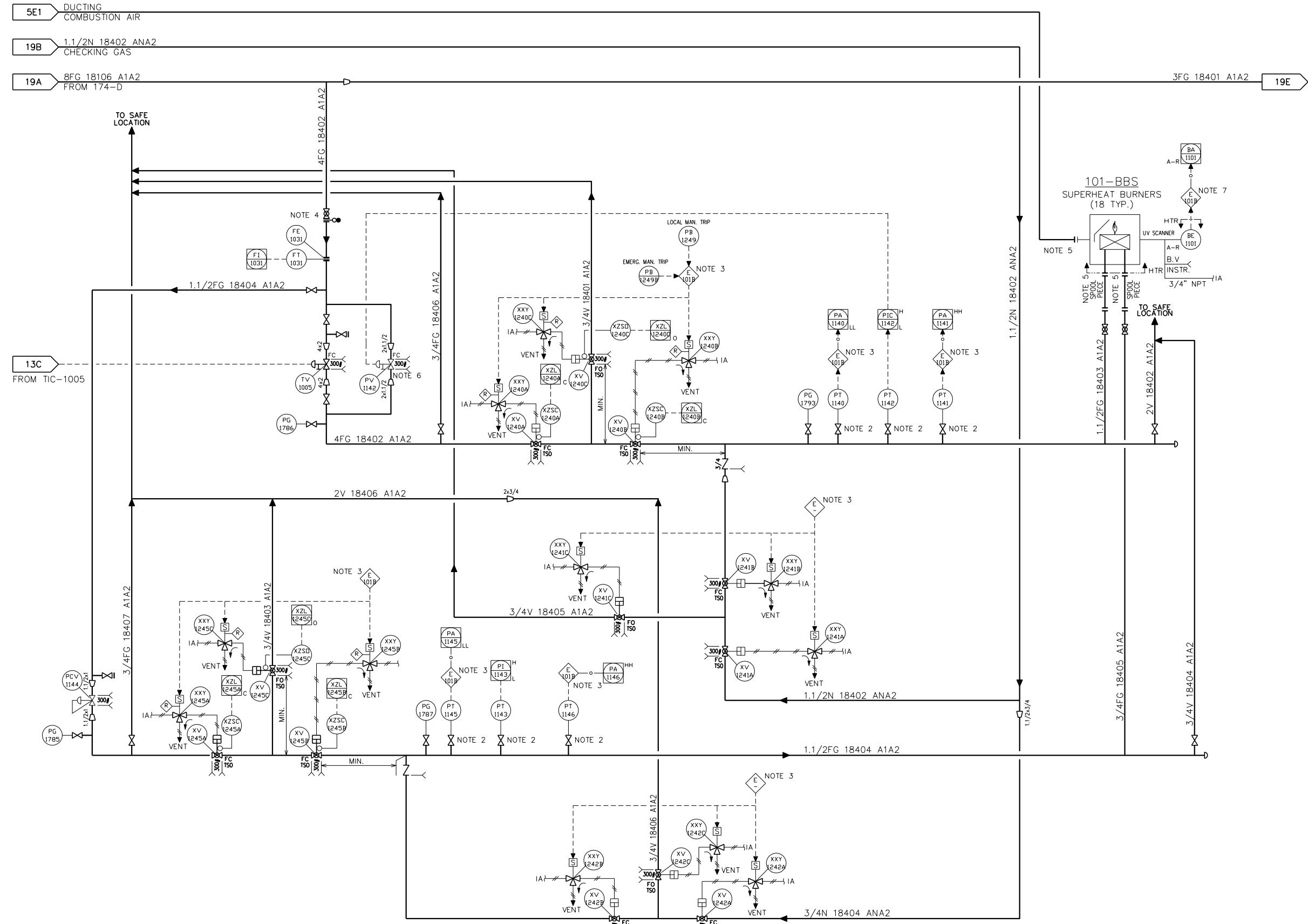


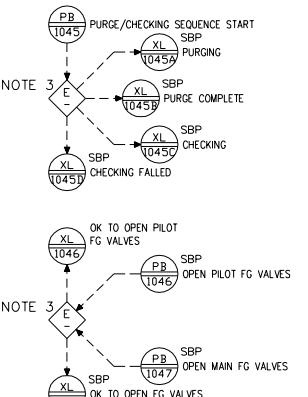
101-BBS SUPERHEAT BURNERS	
DES./OPER.TEMP	°C 345/-
DES./OPER.PRESS.	kg/cm ² G -
MATERIAL	-
BURNER NO.	18
HEAT DUTY/BURNER	GCAL/h 2.0

NOTES

1. FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
2. LOCATE PRESSURE TRANSMITTER PROCESS CONNECTIONS ON MANIFOLD CLOSE TO BURNERS.
3. REFER TO WRITE-UP BY CONROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
4. DENOTES ISOLATION VALVE TO BE LOCATED AT GRADE A MINIMUM OF 15M FROM FURNACE AND GROUPED.
5. TOTAL OF 18 LINES EACH AND 18 BURNERS FOR SUPERHEATER.
6. PV-1143 IS SET TO MAINTAIN MINIMUM FIRE.
7. TRIP INTERLOCK SUPERHEAT BURNERS AND PILOT BURNERS. WHEN ANY THREE CONSECUTIVE DETECTOR DETECTING NO FLAME.



SUPERHEAT BURNER CHECKING/LIGHT-OFF CONTROLS (SBP)



RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	ABA	DU	HOM	ANS	HK	OL	V	14/11/13
RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	ABA	DU	HOM	AM	HK	US	O	28/06/13
RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	ABA	DU	RW	AM	SPL	US	O	10/04/13
ISSUED FOR CONSTRUCTION (AFC)	EB	ABA	DU	RW	AM	SPL	US	O	26/11/12
RE-ISSUED FOR APPROVAL (AFD-1)	EB	ABA	DU	RW	U	SPL	US	O	29/09/12
RE-ISSUED FOR APPROVAL (AFD-2)	EB	ABA	JAK	YSH	BOP	HN	SH	O	14/05/12
ISSUED FOR DETAIL DESIGN (AFD-2)	EB	ABA	DU	RW	U	SPL	US	O	29/09/12
REVISIONS	REV.	DESCRIPTION	DRAW	CHD	CDR	APD	AUT	ISSUE	DATE

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

CLIENT NAME : PUPUK KALTIM
PT. PUPUK KALIMANTAN TIMUR

Engineering Services by
KBR Technical Services, Inc.

THIS DOCUMENT CONTAINS TECHNICAL INFORMATION THAT IS SUBJECT TO U.S. EXPORT CONTROL REGULATIONS.
THIS DRAWING OR THE MATERIAL DESCRIBED THEREIN MAY NOT BE COPIED OR DISCLOSED
TO SANCTIONED COUNTRIES, ENTITIES, OR PERSONS, UNLESS AN EXPORT LICENSE HAS BEEN
ISSUED UNDER APPLICABLE U.S. EXPORT CONTROL REQUIREMENTS.

THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO KELLOGG, BROWN & ROOT. THIS INFORMATION IS TO BE
HELD IN CONFIDENCE. NO DISCLOSURE, REPRODUCTION OR OTHER USE OF THIS DOCUMENT IS TO BE MADE WITHOUT THE
PRIOR WRITTEN CONSENT OF KELLOGG, BROWN & ROOT.

THE DRAWING CONTAINS PROPRIETARY INFORMATION OF TOYO ENGINEERING CORPORATION.
THIS DRAWING OR THE MATERIAL DESCRIBED THEREIN MAY NOT BE COPIED OR DISCLOSED
TO SANCTIONED COUNTRIES, ENTITIES, OR PERSONS, UNLESS AN EXPORT LICENSE HAS BEEN
ISSUED UNDER APPLICABLE U.S. EXPORT CONTROL REQUIREMENTS.

CONTRACTOR : PT. KALINITRAKA PERUSAHAAN TAHUN, TOYO ENGINEERING CORPORATION

CONTRACTOR WORK NUMBER : 10107 / BA096300 / 11-018-01

PIPING & INSTRUMENT FLOW DIAGRAM
FUEL GAS SUPERHEAT BURNERS

SCALE : DWG. NO. K5-01-E1-PD-19D-T
DOC. NO. K5-01-E1-PD-062-T SHEET 062/073 REV.B