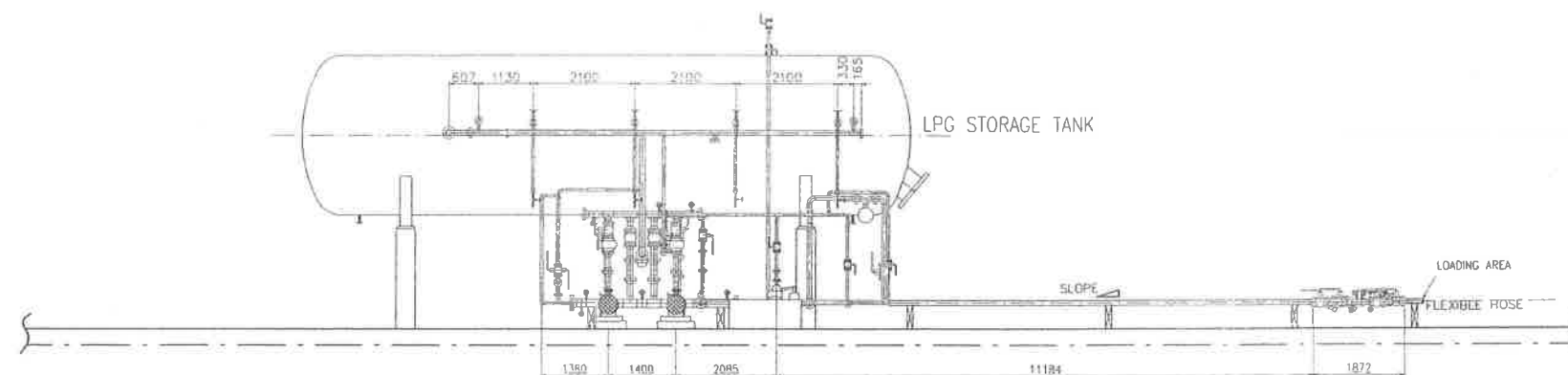
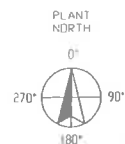
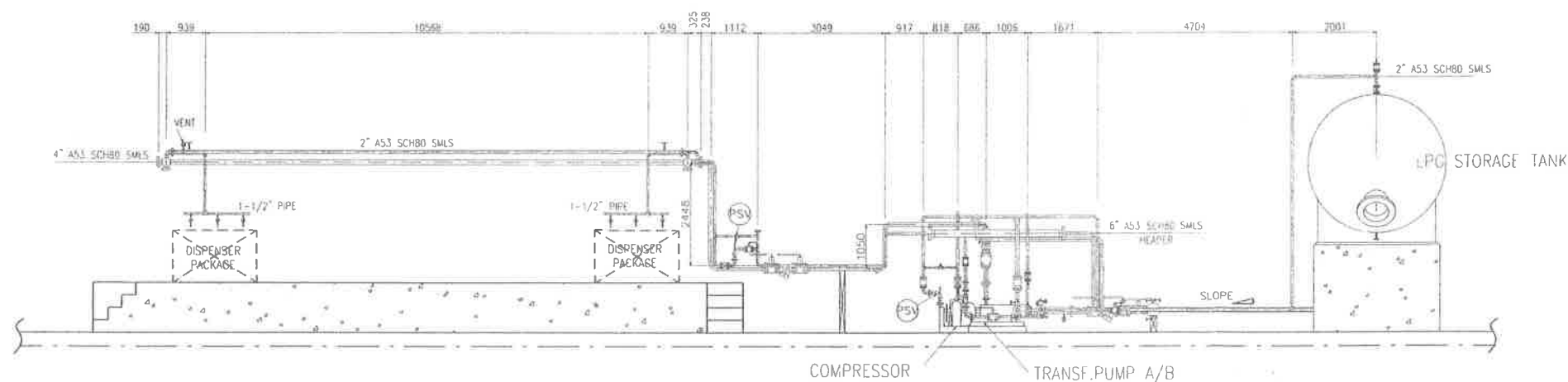


ISS.	REV.	REFERENCE DOCUMENT				
ISS.	REV.	DRAWING NUMBER	DATE	DSG'N'D	CHK'D	APP
SIGNATURE SHALL BE COMPLETED IN ACCORDANCE WITH DISIPLINE QC PROCEDURES						
PROJECT NAME: SPBE PIPE LINE LPG						
TITLE: ISOMETRIC PIPING LPG 001						
WO-XXX	ISO-X03-LPG-2010	NTS	A1	△		
JOB NUMBER	DRAWING NUMBER	SCALE	SIZE	REV		



SIDE VIEW - A



SIDE VIEW - B



ISS. REV.

REFERENCE DOCUMENT

ISS. REV. DRAWING NUMBER DATE DRAW CHK'D APP

SIGNATURE SHALL BE COMPLETED IN ACCORDANCE WITH DISCIPLINE QC PROCEDURES

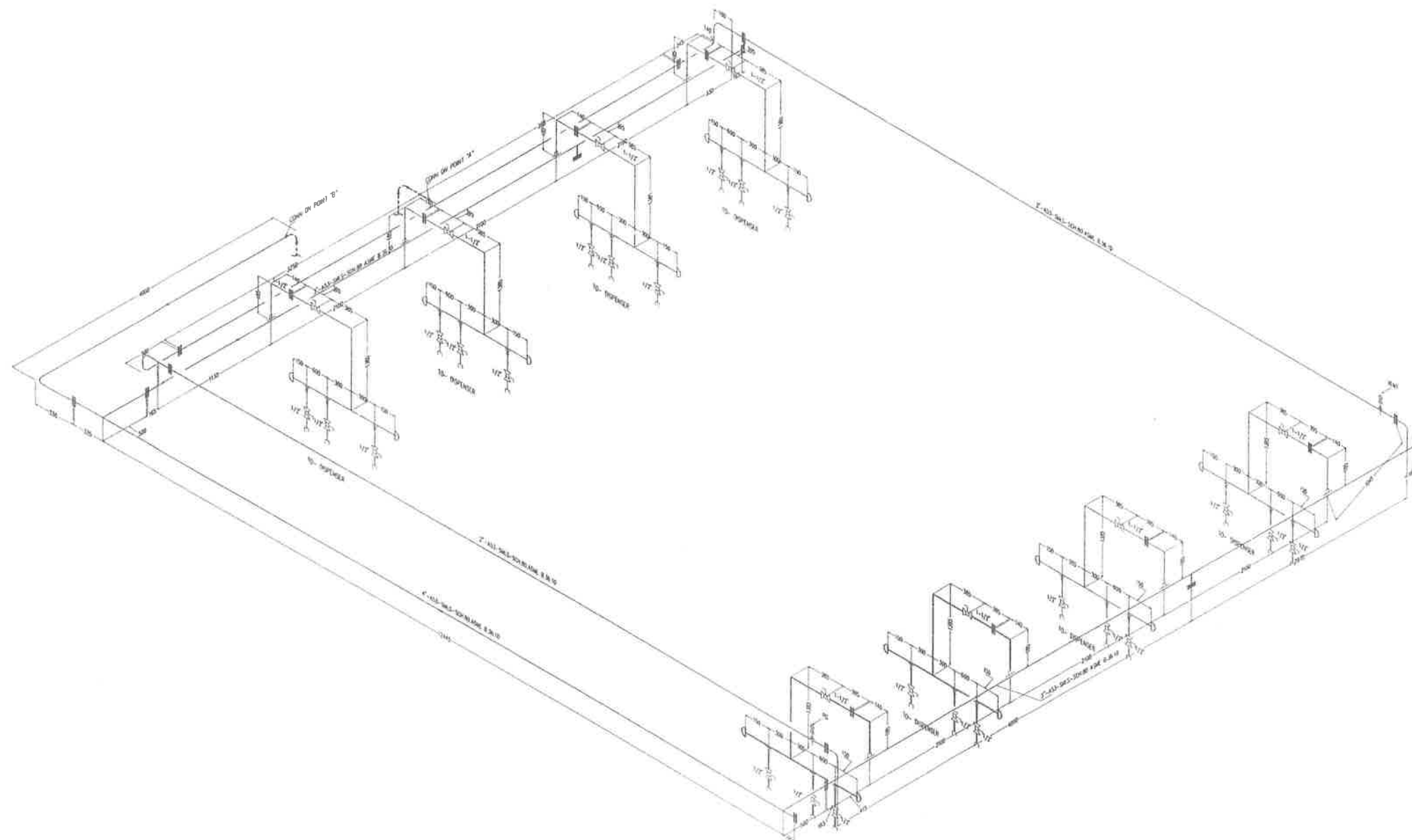
PROJECT NAME:

SPBE PIPE LINE

TITLE:

PIPING ARRANGEMENT LPG
STORAGE TANK

W00-XXX	PA-LPG-001-2010	1:50	A0	△
JOB NUMBER	DRAWING NUMBER	SCALE	SIZE	REV.



BILL OF MATERIAL

NO	DESCRIPTION	QTY	UNIT
1	PIPE 4" A-53 SCH.80 SMLS ASME B.36.10		M
2	PIPE 3" A-53 SCH.80 SMLS ASME B.36.10		M
3	PIPE 2" A-53 SCH.80 SMLS ASME B.36.10		M
4	PIPE 1-1/2" A-53 SCH.80 SMLS ASME B.36.10		M
5	PIPE NEPPLE 1/2" A-53 SCH.80 SMLS ASME B.36.10		M
6	ELL 90° LR 4" A-234 GR.WPB SCH.80 SMLS ASME B.16.9	1	EA
7	ELL 90° LR 2" A-234 GR.WPB SCH.80 SMLS ASME B.16.9	6	EA
8	ELL 90° LR 1-1/2" A-234 GR.WPB SCH.80 SMLS ASME B.16.9	16	EA
10	TEE RED 4X3" A-234 GR.WPB SCH.80 SMLS ASME B.16.9	2	EA
11	TEE RED 3X2" A-234 GR.WPB SCH.80 SMLS ASME B.16.9	4	EA
12	TEE 3X3" ST A-234 GR.WPB SCH.80 SMLS ASME B.16.9	2	EA
13	TEE 1-1/2X1-1/2" SW A-234 GR.WPB SCH.80 SMLS ASME B.16.9	8	EA
14	THREDOLET NPT #3000 ASTM A53 1/2"	24	EA
15	FLANGE 4" WN #300 RF A105 GR.B ASME 16.5	3	EA
16	FLANGE 3" WN #300 RF A105 GR.B ASME 16.5	6	EA
17	FLANGE 2" WN #300 RF A105 GR.B ASME 16.5	12	EA
18	FLANGE 1-1/2" SO #300 RF A105 GR.B ASME 16.5	8	EA
19	BLIND FLANGE 4" #300 RF A105 GR.B ASME 16.5	1	EA
20	BLIND FLANGE 3" #300 RF A105 GR.B ASME 16.5	2	EA
21	HALF COUPLING SW#3000 ASTM A53X3/4"	2	EA
22	BALL VALVE 1-1/2" NPT #800	8	EA
23	BALL VALVE 3/4" NPT #800	2	EA
24	BALL VALVE 1/2" NPT #800	24	EA
25	4" SPIRAL WOUND GASKET 32TB 5thk #300 ASME B.16.20	2	EA
26	3" SPIRAL WOUND GASKET 32TB 5thk #300 ASME B.16.20	6	EA
27	2" SPIRAL WOUND GASKET 32TB 5thk #300 ASME B.16.20	8	EA
28	1-1/2" SPIRAL WOUND GASKET 32TB 5thk #300 ASME B.16.20	8	EA
29	BOLT & NUT A193GR.B7/194GR.2H #300 S.BOLT		
30	BOLT & NUT A193GR.B7/194GR.2H #300 S.BOLT		

ISS. REV.

REFERENCE DOCUMENT

ISS. REV. DRAWING NUMBER DATE DSGND CHK APP

SIGNATURE SHALL BE COMPLETED IN ACCORDANCE WITH DISCIPLINE QC PROCEDURES

PROJECT NAME

SPBE PIPE LINE LPG

TITLE

ISOMETRIC PIPING LPG 002

W/O-XXA

ISO-002-LPG-002

NTS

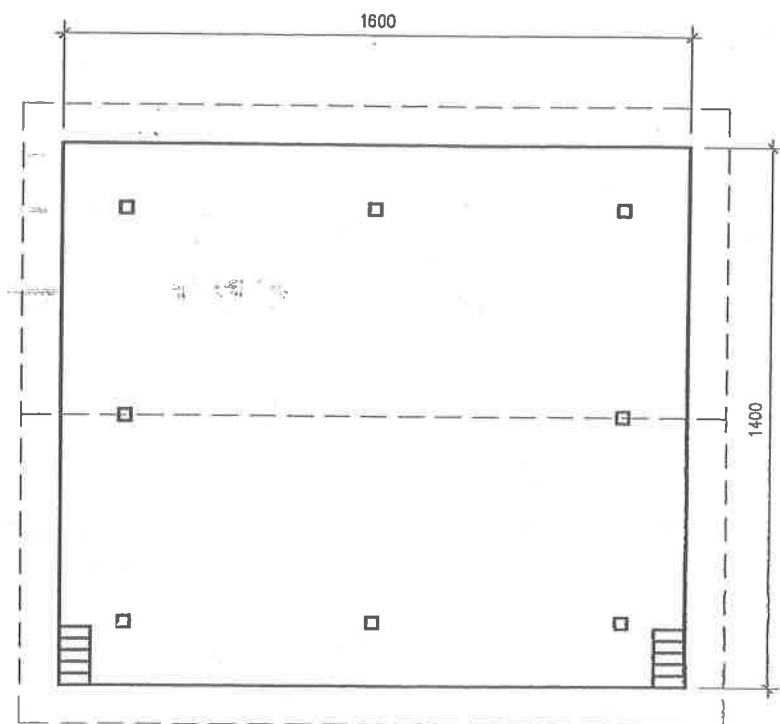
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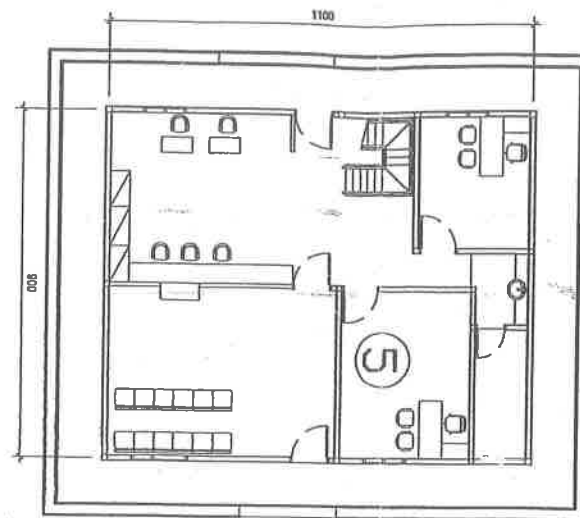
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SIZE

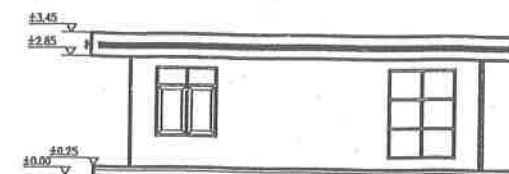
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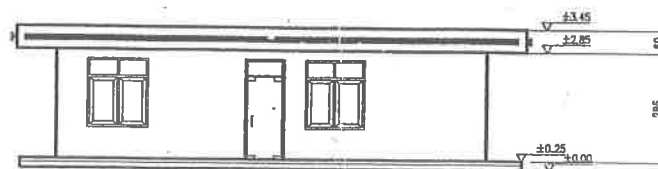
DENAH FILLING AREA



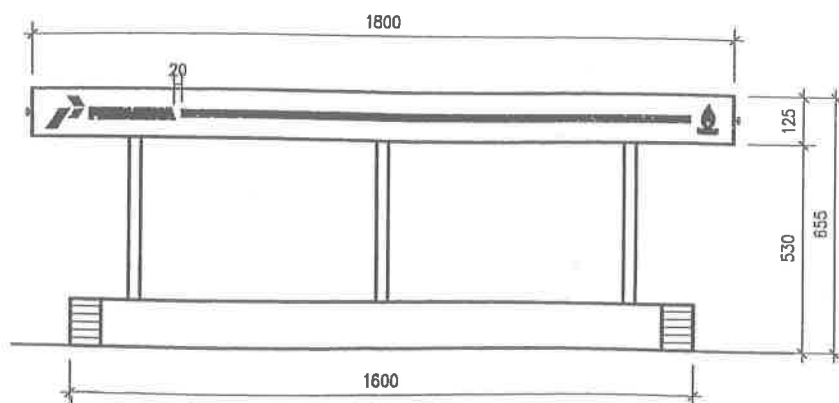
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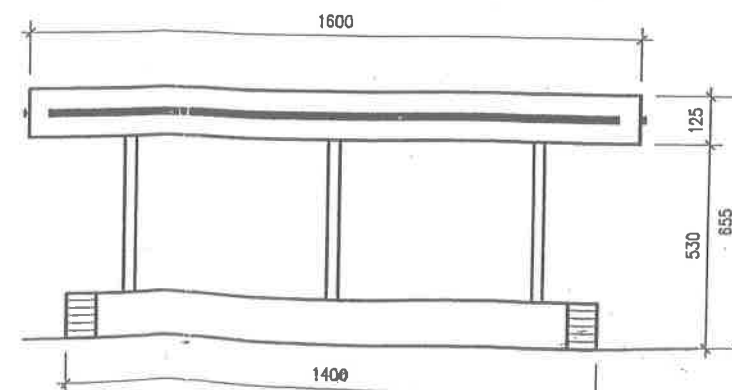
TAMPAK SAMPING KIRI



TAMPAK SAMPING KANAN



TAMPAK DEPAN



TAMPAK SAMPING

CATATAN

- * UNTUK KEPERLUAN PENGURUSAN IMB
- * UKURAN GAMBAR DALAM CENTIMETER

MENGETAHUI

DIPERIKSA CHECKED	DISETUJUI APPROVED
TANGGAL DATE 11/11/09	TANGGAL DATE
<i>Wa fe</i>	<i>Hardi Suyoko</i>
	Hardi Suyoko Man. Infrastruktur & Safety

PEMILIK
PT PERTAMINA (PERSERO)
UNIT GAS DOMESTIK
DIREKTORAT PEMASARAN & NIAGA

PROYEK :
**PEMBANGUNAN SPBE
PT. MITRA HARUN GASINDO**
Ciawi Bogor

KONSULTAN PERENCANA :

JUDUL :
FILLING AREA & KANTOR

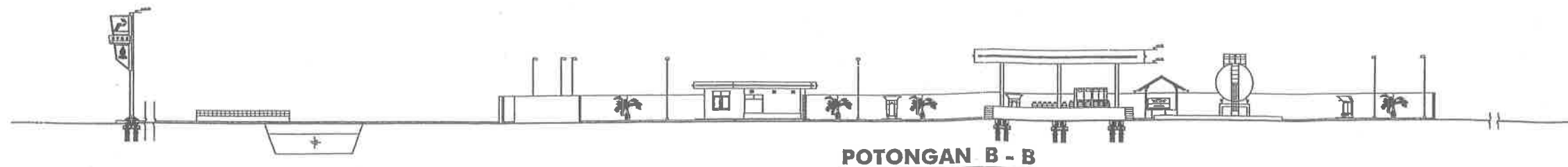
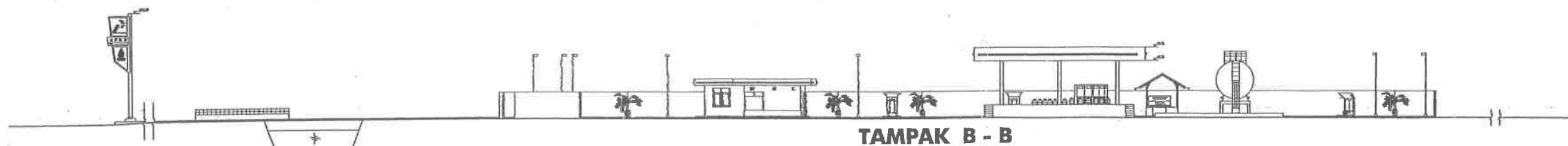
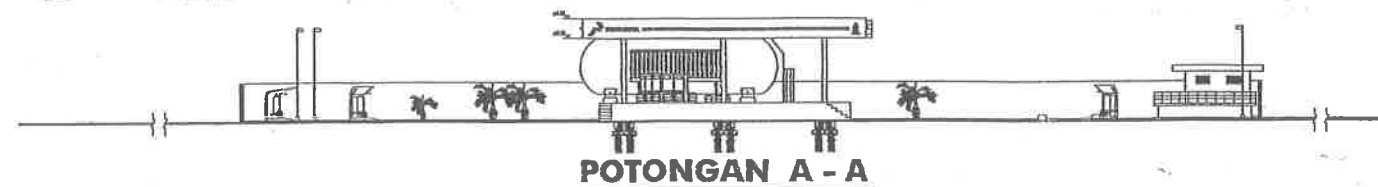
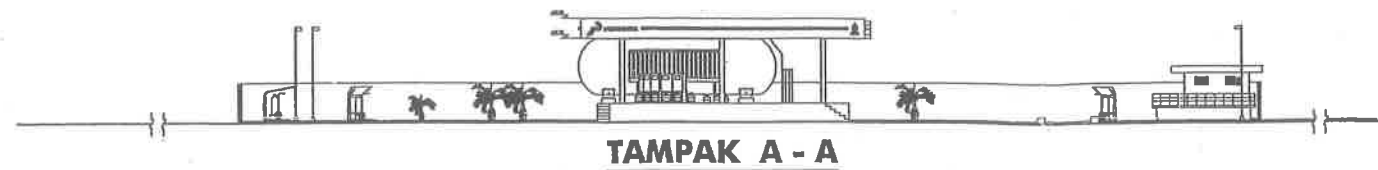
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SKALA : 1 : 100
TANGGAL : 11 OKTOBER 2009

NO. GAMBAR : PR 02 - 69 - 04

UKURAN
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* UNTUK KEPERLUAN PENGURUSAN IMB
* UKURAN GAMBAR DALAM CENTIMETER

MENGETAHUI

DIPERIKSA CHECKED	DISETUJUI APPROVED
TANGGAL DATE 11/11/09	TANGGAL DATE
<i>Wa R</i>	<i>Hardi Suyoko</i> Hardi Suyoko Man. Infrastruktur & Safety

PEMILIK
PT PERTAMINA (PERSERO)
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PROYEK :
PEMBANGUNAN SPBE
PT. MITRA HARUN GASINDO
Ciawi Bogor

KONSULTAN PERENCANA :

JUDUL :
TAMPAK & POTONGAN

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SKALA : 1 : 250
TANGGAL : 11 OKTOBER 2009

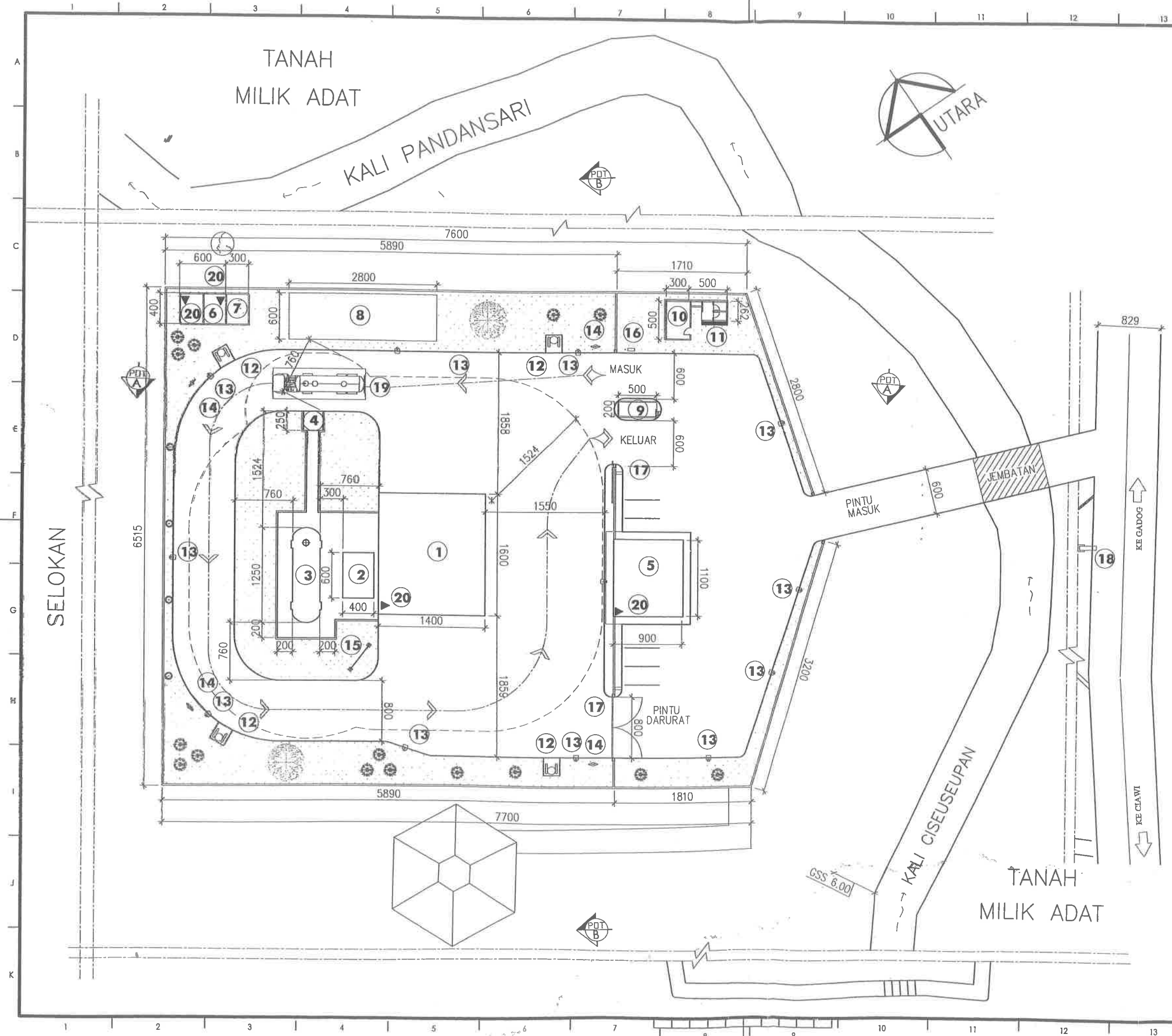
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CATATAN

- * UNTUK KEPERLUAN PENGURUSAN IMB
- * UKURAN GAMBAR DALAM CENTIMETER

KETERANGAN

- 1 AREA PENGISIAN LPG (1600 x 1400cm)
- 2 RUMAH POMPA/KOMPRESSOR LPG (600 x 400cm)
- 3 TANGKI LPG KAP. 1x50 ton
- 4 BONGKAR LPG (250 x 250cm)
- 5 KANTOR (1100 x 900cm)
- 6 GUDANG & R. GENSET (600 x 400cm)
- 7 R. POMPA PMK (400 x 300cm)
- 8 KOLAM PMK 460 M3 (2800 x 600 x 270cm)
- 9 POS JAGA (500 x 200cm)
- 10 MUSHOLLA (500 x 300cm)
- 11 SHELTER SOPIR & TOILET (500 x 250cm)
- 12 POINT HYDRANT
- 13 RACUN API & SHELTER
- 14 LAMPU TAMAN
- 15 RAMBU DILARANG MEROKOK
- 16 RAMBU MASUK
- 17 RAMBU DILARANG MASUK
- 18 SIGNAGE
- 19 JEMBATAN TIMBANG
- 20 ALAT PEMADAM API RINGAN (APAR)

MENGETAHUI

DIPERIKSA CHECKED	DISETUJUI APPROVED
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<i>Wa</i>	<i>Hardi Suyoko</i>
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PEMILIK
PT PERTAMINA (PERSERO)
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Ciawi Bogor

KONSULTAN PERENCANA :

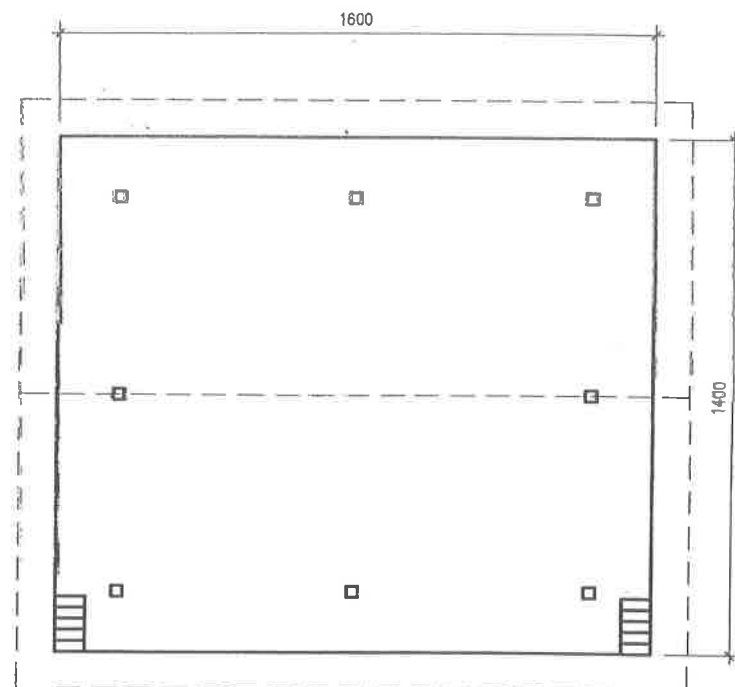
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TANGGAL : 11 OKTOBER 2009

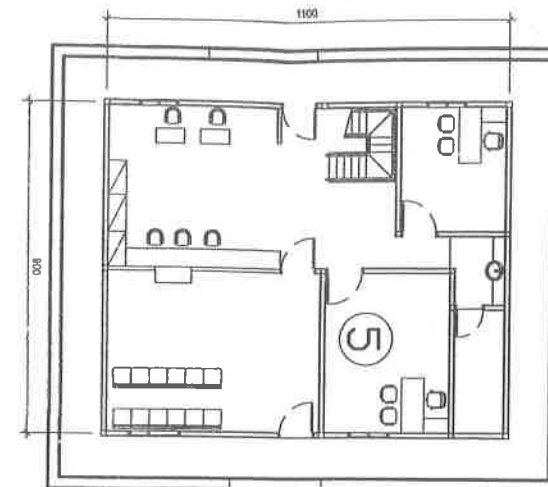
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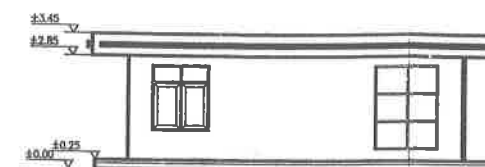
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DENAH FILLING AREA



TAMPAK DEPAN



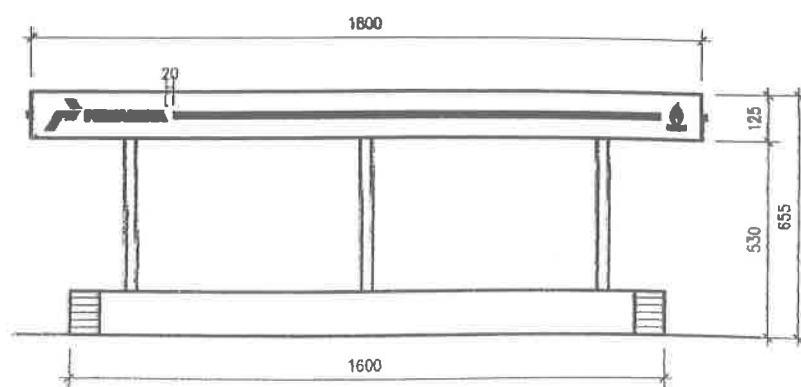
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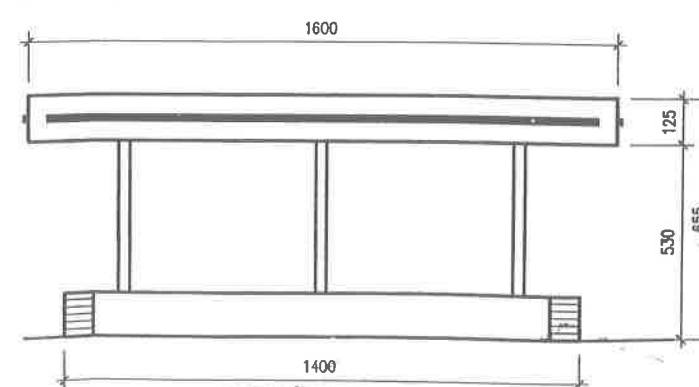
TAMPAK DEPAN



TAMPAK SAMPING KANAN



TAMPAK DEPAN



TAMPAK SAMPING

CATATAN

- * UNTUK KEPERLUAN PENGURUSAN IMB
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PROYEK :
PEMBANGUNAN SPBE
PT. MITRA HARUN GASINDO
Ciawi Bogor

KONSULTAN PERENCANA :

JUDUL :
FILLING AREA & KANTOR

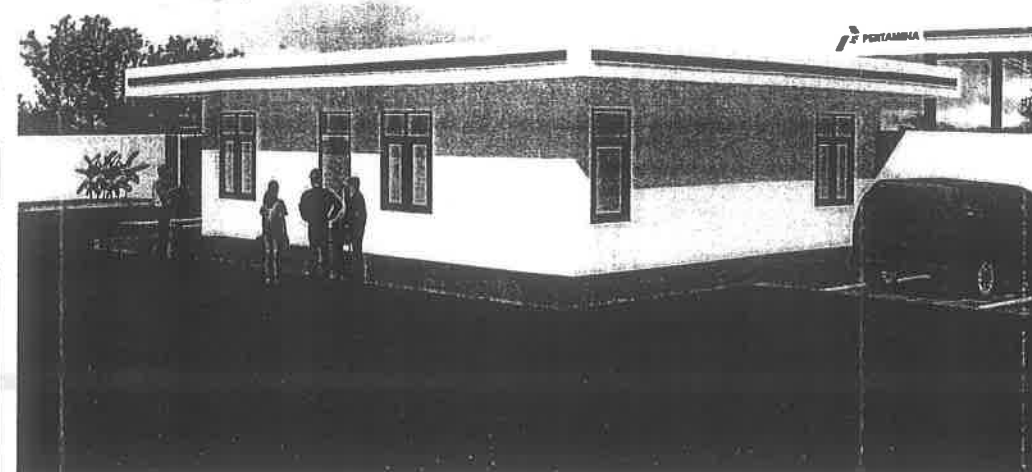
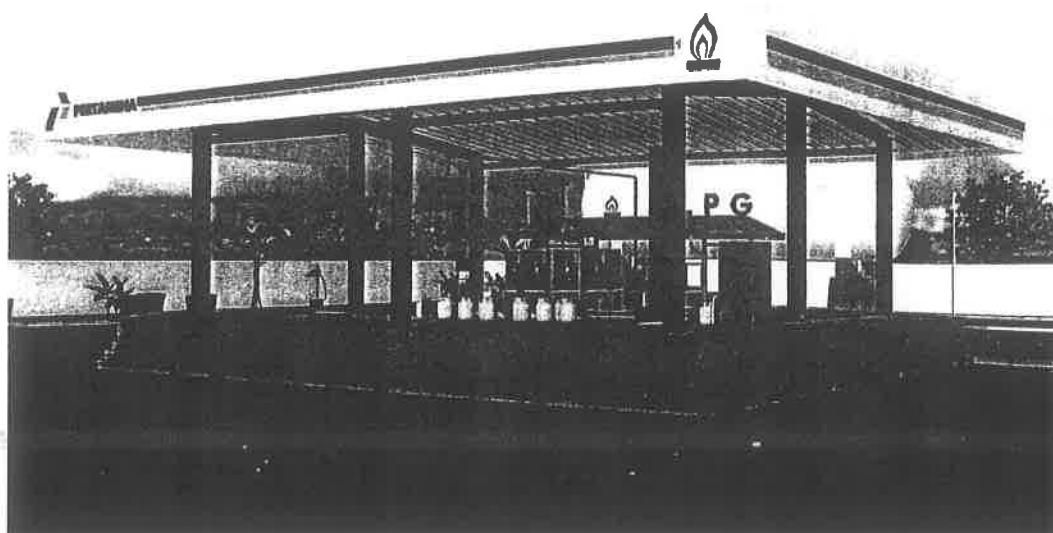
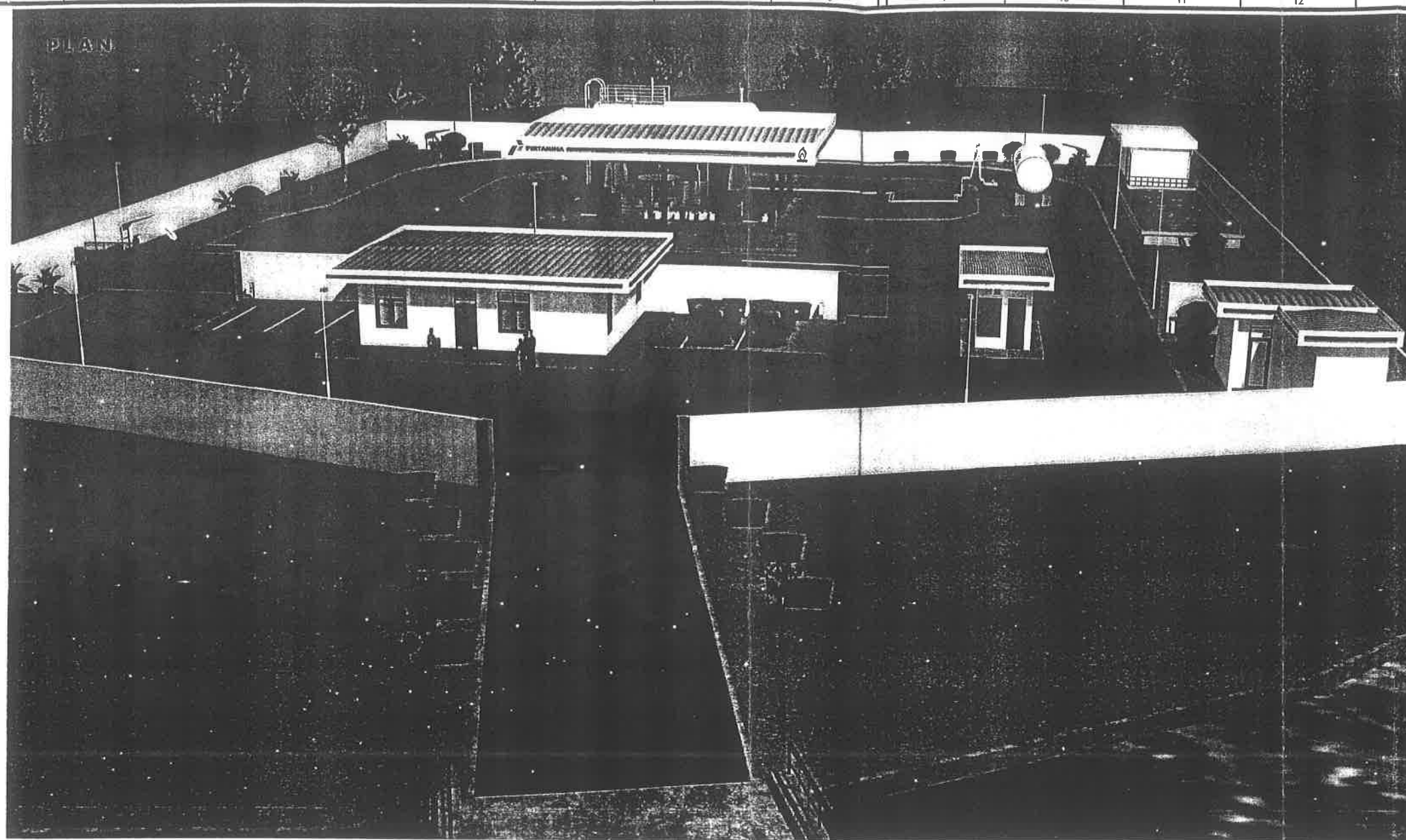
DIGAMBAR : ASR
SKALA : 1 : 100
TANGGAL : 11 OKTOBER 2009

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- * UNTUK KEPERLUAN PENGURUSAN IMB
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DIPERIKSA CHECKED	DISETUJUI APPROVED
TANGGAL DATE 11/11/09	TANGGAL DATE
<i>wa</i>	<i>Hardi Suyoko</i> Hardi Suyoko Man.Infrastruktur & Safety

PEMILIK

PT PERTAMINA (PERSERO)
 UNIT GAS DOMESTIK
 DIREKTORAT PEMASARAN & NIAGA

PROYEK :
 PEMBANGUNAN SP8E
 PT. MITRA HARUN GASINDO
 Ciawi Bogor

KONSULTAN PERENCANA :

JUDUL :

IMAGES 3D

DIGAMBAR : ASR
 SKALA : NTS
 TANGGAL : 11 OKTOBER 2009

NO. GAMBAR : PR 02 - 69 - 02

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