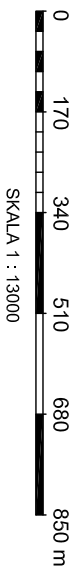
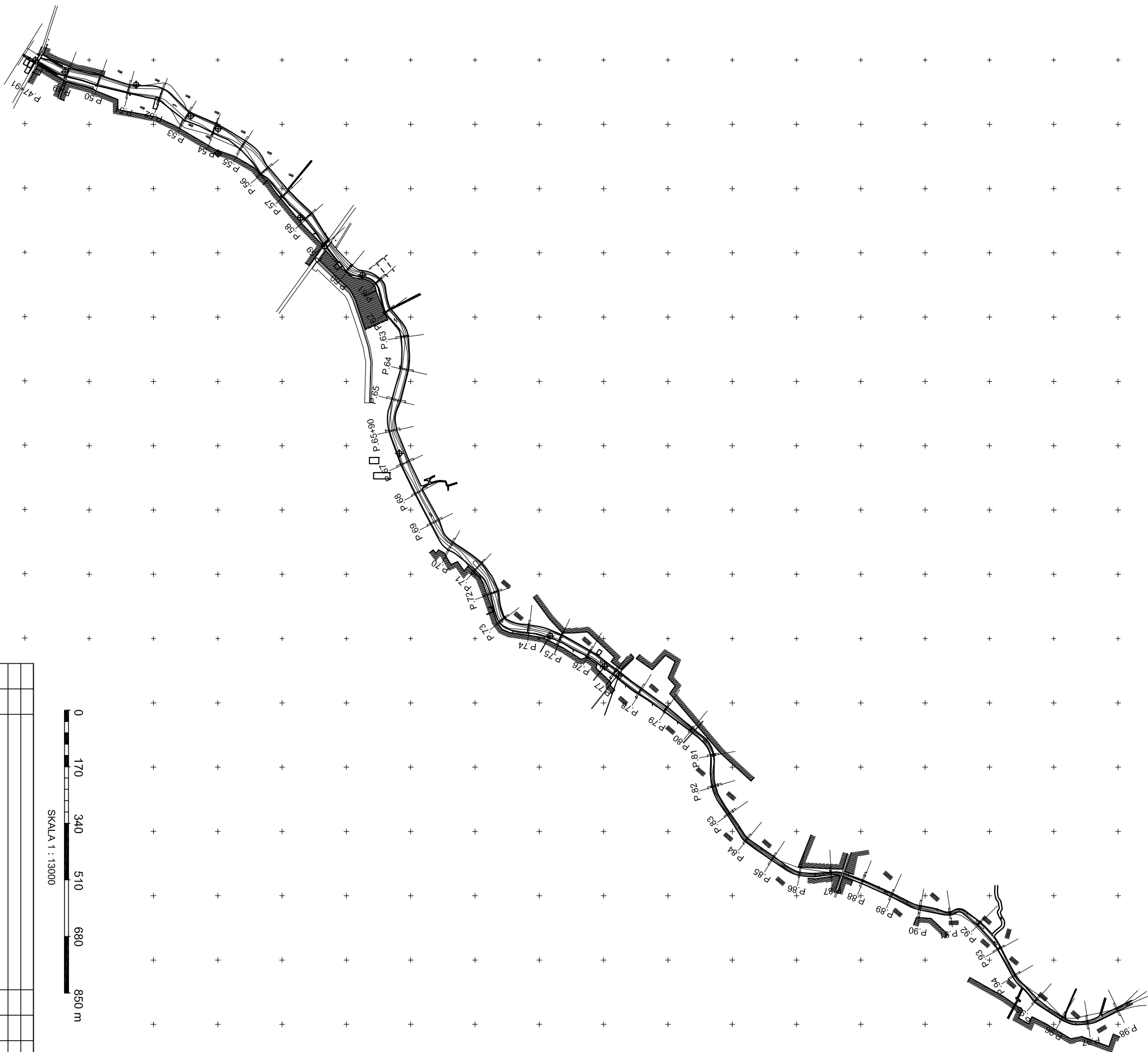
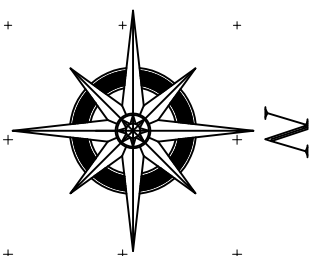
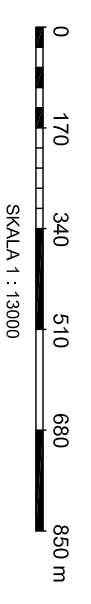
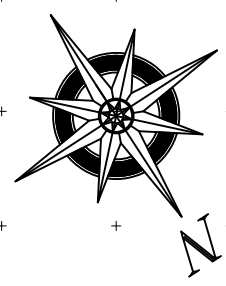
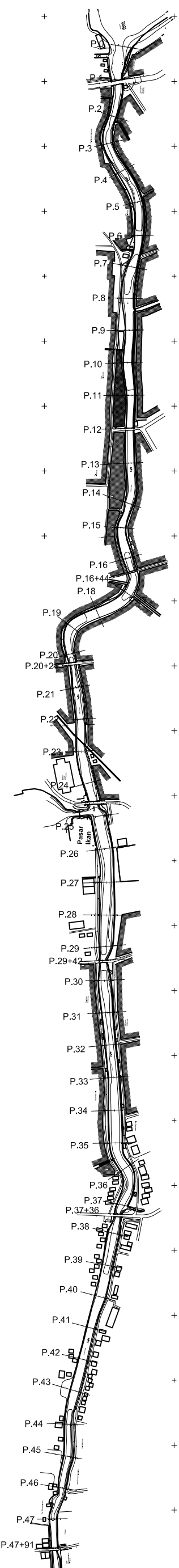


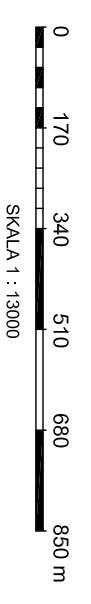
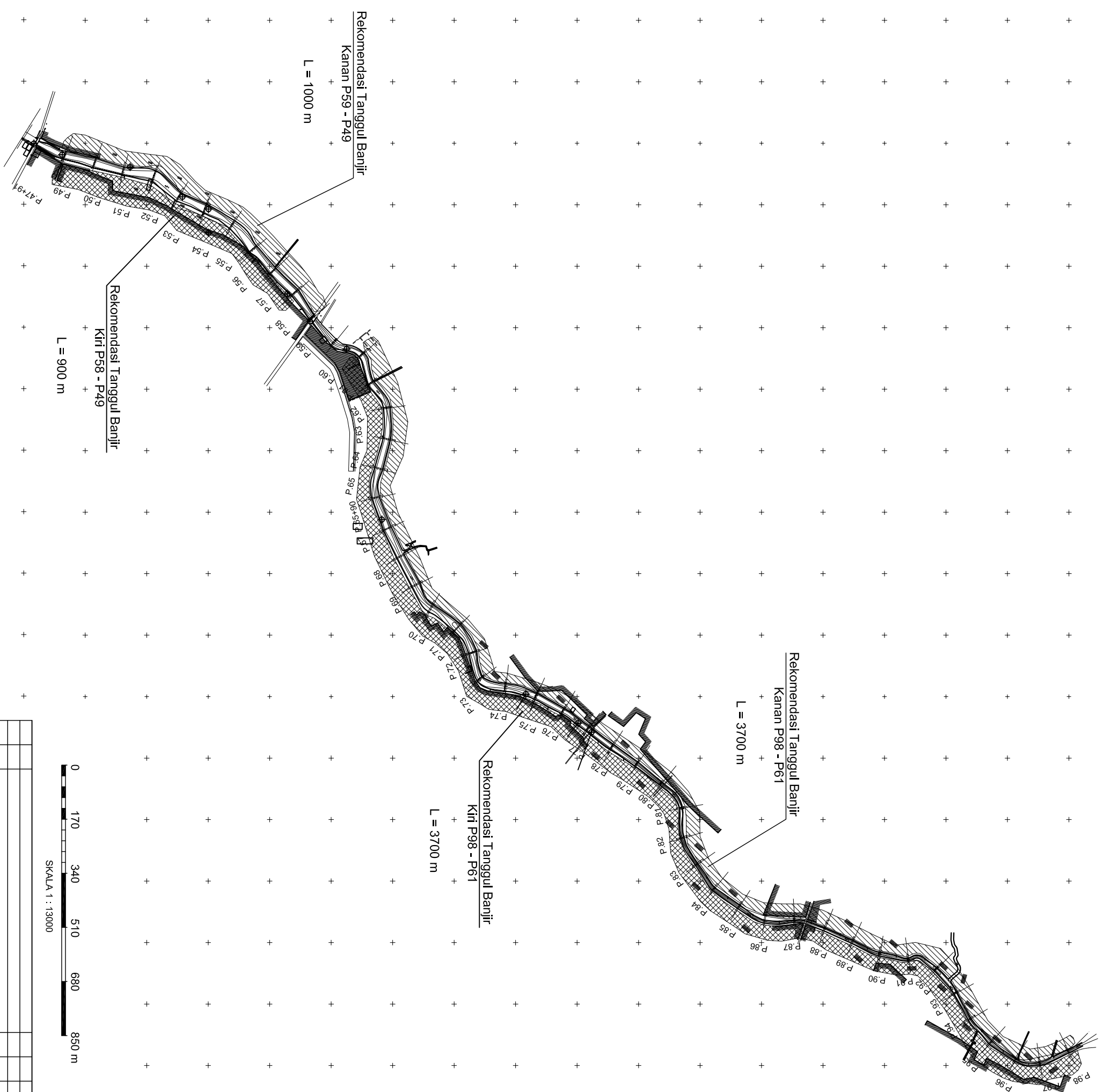
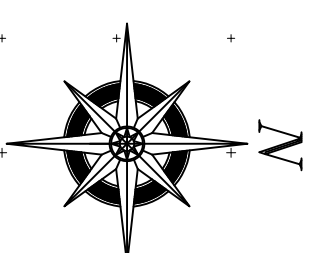
**LAMPIRAN A**  
**PETA TOPOGRAFI KALI**  
**YASA**




<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL Jl. MT Haryono No. 107, Cikemp, Jawa Tengah Telp. (0292) 345003		PROVINSI : JAWA TENGAH KABUPATEN : CILACAP NO. REGISTRASI : NO. JUM. LBR : 01 / 04 TANGGAL : NOKONTRAK	
GAMBAR : LAYOUT KALIVASA P88 - P47+91			
Disediakan oleh :			
<b>SUPRANARMONI</b> Konsultan PT. SUPRANARMONI Jl. MT Haryono No. 107, Cikemp, Jawa Tengah Telp. (0292) 345003		Nelayan, Anggras, ST I. Bambang Sulihono, NSGE	
No. Rev Igl yang direvisi		oleh direvisi oleh	

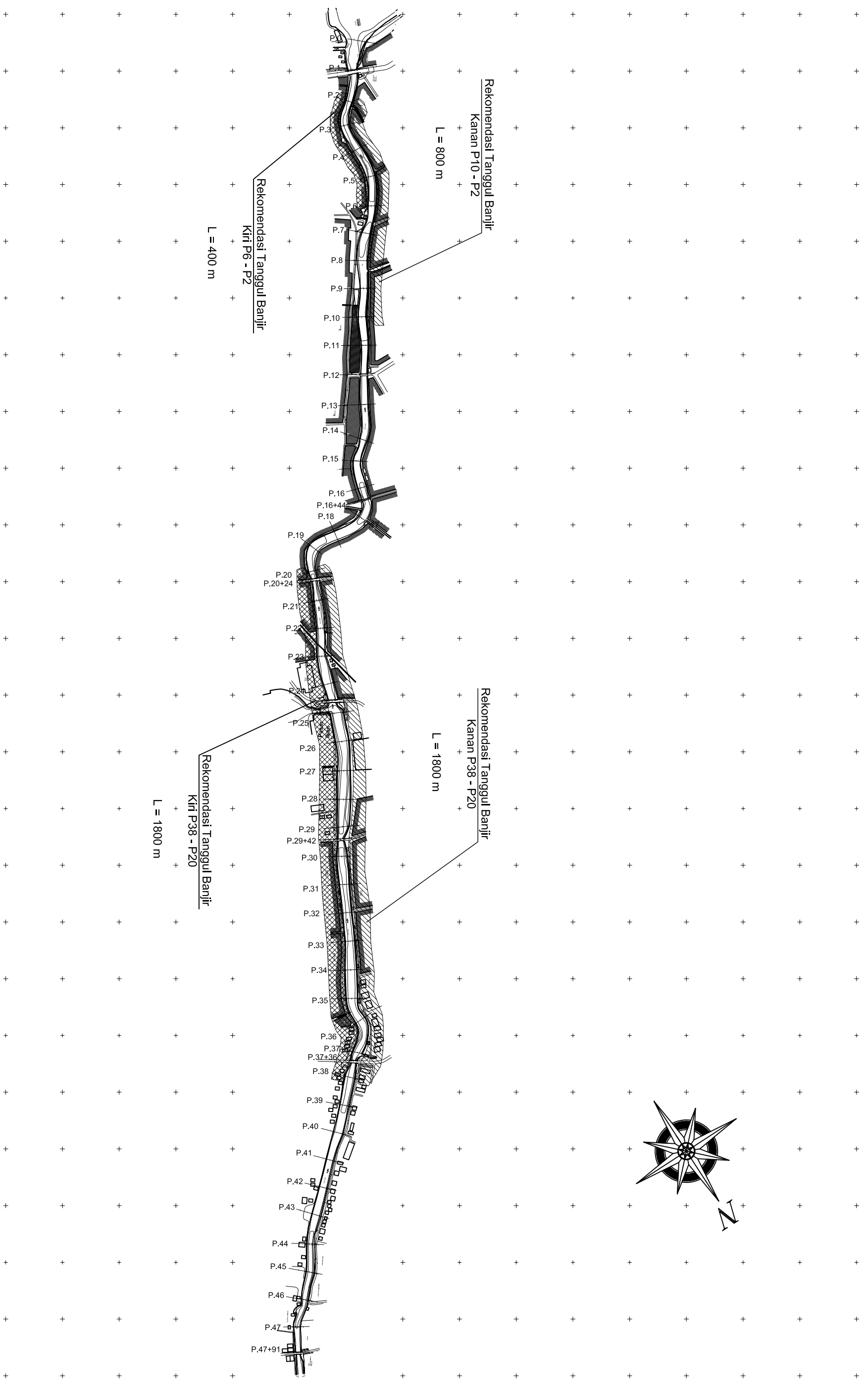
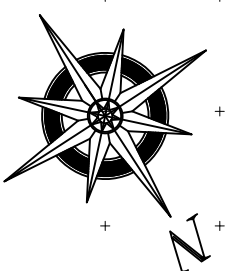


<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL <small>Jl. H. Manopo No. 107, Cilacap, Jawa Tengah Telp. (0422) 348003</small>		PROVINSI : JAWA TENGAH KABUPATEN : CILACAP NO. REGISTRASI : NO. JUM. LBR : 02 / 04 TANGGAL : NO. KONTRAK	
GAMBAR : LAYOUT KALYASA P47+91 - P0		SUPRARAHMONI <small>Suprarahmoning.com</small> CONSULTING PT. SUPRARAHMONI CONSULTING <small>PT. SUPRARAHMONI CONSULTING          Jl. Sekeloa Selatan 1 No. 10          Jakarta Selatan 12120</small>	
No. Rev 1/01	Yang direvisi oleh direnc. dilet	Disediakan KADIPUSDA Sekeloa Selatan 1 No. 10 Jakarta Selatan 12120 Telp. (021) 5340112	No. / Tanggal ST No. / Tanggal NSDC No. / Tanggal



no.	rev	tgl	yang direvisi	oleh	dicorek.	diset

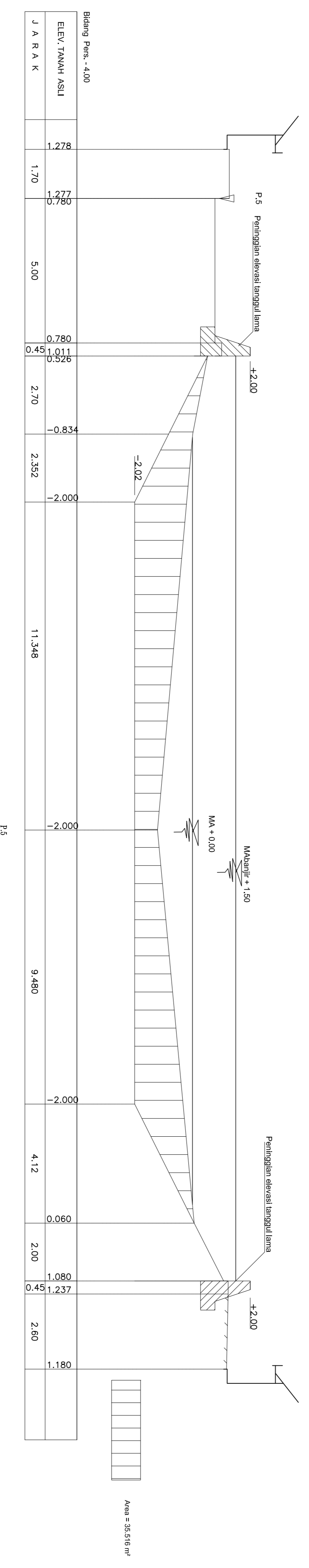
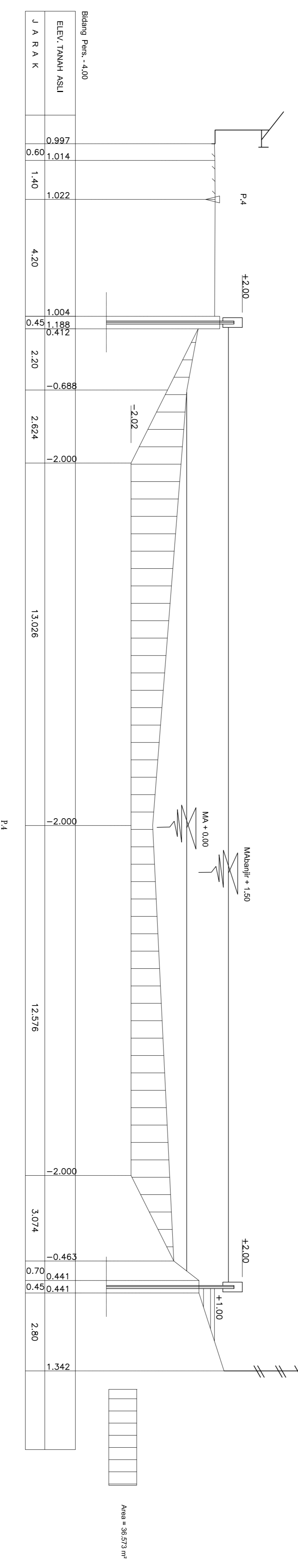
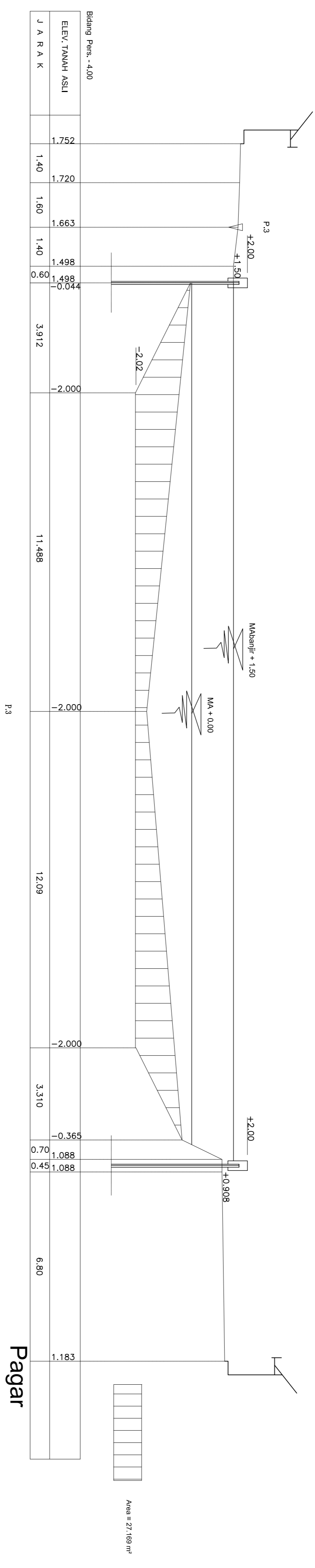
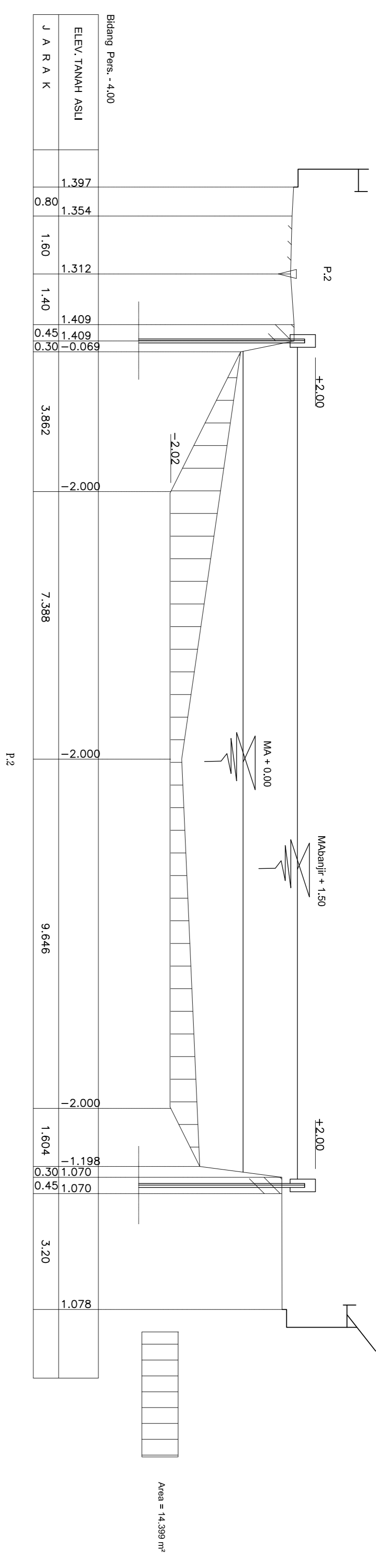
<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL <small>Jl. H.T. Manopo No. 107, Cilacap, Jawa Tengah, Telp. (0422) 348003</small>		PROVINSI : JAWA TENGAH KABUPATEN : CILACAP NO. REGISTRER : NO./JUML. LBR : 03 / 04 TANGGAL : NO.KONTRAK
GAMBAR : PETA AREA BANJIR & REKOMENDASI TANGGUL BANJIR P98 - P47+91		Disediakan oleh :
 <b>SUPRAHARMONI CONSULTING</b> <small>Regency &amp; Company, Indonesia</small> PT/PTK : PT/PTK : Alamat : No. : Telp. : Fax :		Disetujui oleh :
Timah Lender : I. Bambang Sulihono, NSGE NIP. 195807106 1990031 002 Satrio Kurniawan, ST, T. AMI NIP. 19530412 1998031 005		No. / Tanggal :



<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL Jl. H. Manopo No. 107, Cilacap, Jawa Tengah 51262 (Sedz) 54003		PROVINSI : JAWA TENGAH KABUPATEN : CILACAP DEK KALIVASA	
GAMBAR : PETA AREA BANJIR & REKOMENDASI TANGGUL BANJIR P47-91 - P0			
<b>SUPRARAHMONI</b> Arcadikar Regenerasi & Pengembangan Wilayah		Rony/Anjuna, ST I. Bambang Sulihono, NSGE	
<b>CONSULTING</b> PT/TK		TEAMA LEADER NRP. 150201006 10003171002 NRP. 150304121 090031 1005	
No. rev Igl yang direvisi		Dibuat KADIP DAU, Jakarta PPK	
ohn dironc.		dset	
NO. REGISTRASI : 04 / 04 NO. JUM. LBR : TANGGAL : NO. KONTRAK			

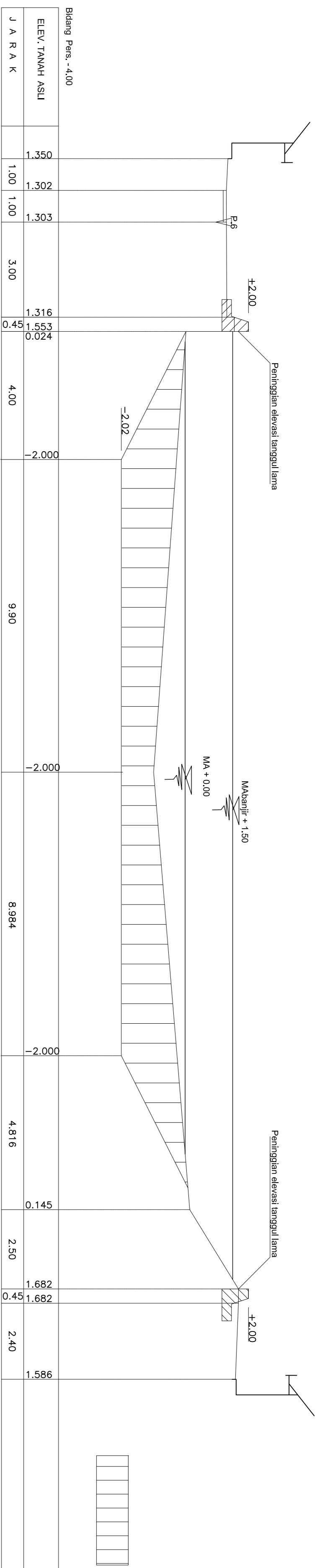
**LAMPIRAN B**  
**POTONGAN MELINTANG**  
**SUNGAI KALI YASA P.0 –**  
**P.98**



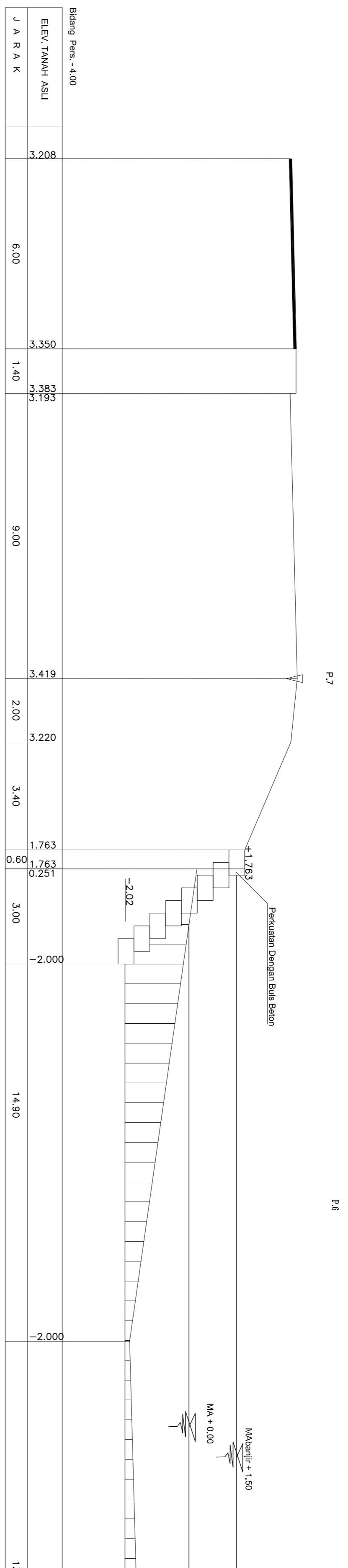


<b>Pemerintah Kabupaten Cilacap</b> Dinas Bina Marga Sumber Daya Air Energi Dan Sumber Daya Mineral Jl. Mt. Kemuning No. 507, Cilacap, Jawa Tengah, (0282) 349003		PROVINSI : JAWA TENGAH PEKERJAAN : DED KALAYASA	
GAMBAR : POTONGAN MELINTANG (P.2 - P.5)		KABUPATEN : CILACAP	
NO. REGISTRER :		NO. JUMIL. LBR : 9 / 25	
TANGGAL :		NO. KONTRAK :	
15 JUNI 2015		602.2/15.07-1/SDA.372/19	
Disetujui :	oleh :	direnc. :	diset :
yang direvisi :	No. Rev :	Ugi :	:
<b>PT. SUPRANARMONIA</b> Konsultindo Jl. Buntar, Karangreja, Cilacap, Jawa Tengah, (0282) 349003		Disetujui :	
PT. SUPRANARMONIA Konsultindo Jl. Buntar, Karangreja, Cilacap, Jawa Tengah, (0282) 349003		Disetujui :	

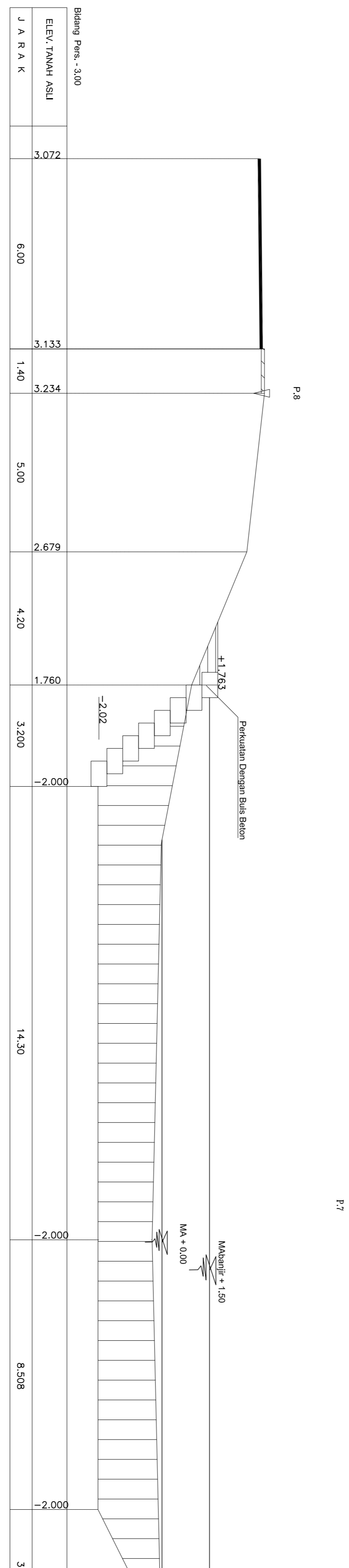




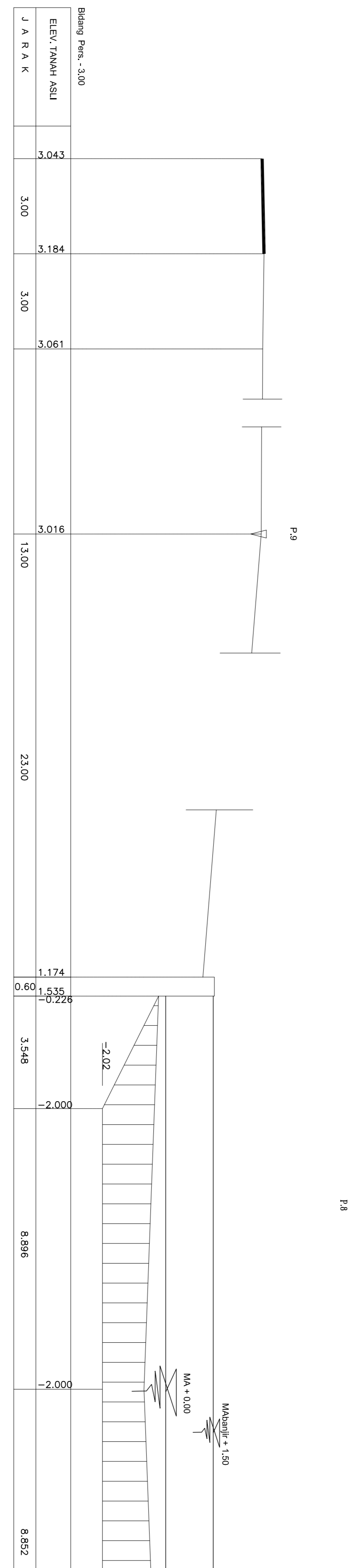
Bidang Pers. - 4.00	1.350	1.302	1.303	3.00	1.316	1.553	0.45	4.00	-2.000	9.90	2.000	8.984	-2.000	4.816	0.145	1.682	0.45	2.50	2.40	1.586
ELEV. TANAH ASLI	1.00	1.00	1.00	3.00	1.316	1.553	0.45	4.00	-2.000	9.90	2.000	8.984	-2.000	4.816	0.145	1.682	0.45	2.50	2.40	1.586
J A R A K	1.00	1.00	1.00	3.00	1.316	1.553	0.45	4.00	-2.000	9.90	2.000	8.984	-2.000	4.816	0.145	1.682	0.45	2.50	2.40	1.586



Bidang Pers. - 4.00	3.208	3.350	3.383	6.00	1.763	1.913	0.60	3.00	-2.000	9.00	2.000	3.40	1.763	1.763	0.251	3.00	-2.000	14.90	14.90	13.776
ELEV. TANAH ASLI	1.40	1.40	1.40	6.00	1.763	1.913	0.60	3.00	-2.000	9.00	2.000	3.40	1.763	1.763	0.251	3.00	-2.000	14.90	14.90	13.776
J A R A K	1.40	1.40	1.40	6.00	1.763	1.913	0.60	3.00	-2.000	9.00	2.000	3.40	1.763	1.763	0.251	3.00	-2.000	14.90	14.90	13.776



Bidang Pers. - 3.00	3.072	3.133	3.234	6.00	3.234	3.234	1.40	5.00	-2.000	2.679	4.20	1.760	1.760	3.200	-2.000	14.30	14.30	8.508	8.508	3.992
ELEV. TANAH ASLI	1.40	1.40	1.40	6.00	3.234	3.234	1.40	5.00	-2.000	2.679	4.20	1.760	1.760	3.200	-2.000	14.30	14.30	8.508	8.508	3.992
J A R A K	1.40	1.40	1.40	6.00	3.234	3.234	1.40	5.00	-2.000	2.679	4.20	1.760	1.760	3.200	-2.000	14.30	14.30	8.508	8.508	3.992



Bidang Pers. - 3.00	3.043	3.184	3.061	3.00	3.016	3.016	13.00	23.00	-2.000	1.174	1.174	1.174	1.174	1.174	1.174	3.548	3.548	8.896	8.896	8.852
ELEV. TANAH ASLI	1.00	1.00	1.00	3.00	3.016	3.016	13.00	23.00	-2.000	1.174	1.174	1.174	1.174	1.174	1.174	3.548	3.548	8.896	8.896	8.852
J A R A K	1.00	1.00	1.00	3.00	3.016	3.016	13.00	23.00	-2.000	1.174	1.174	1.174	1.174	1.174	1.174	3.548	3.548	8.896	8.896	8.852

**POTONGAN MELINTANG (P.6 - P.9)**

**PT. SUPRANARMONIA KONSULTING**  
 Jalan Kertajaya No. 107, Cikembar, Jawa Tengah Telp. (0282) 348003

**PEMERINTAH KABUPATEN CILACAP**  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL  
 Jl. Mt. Merapi No. 107, Cikembar, Jawa Tengah Telp. (0282) 348003

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

KABUPATEN : CILACAP  
 NO. REGISTRER : 10 / 25  
 NO. JUMIL. LBR : NO KONTRAK

TANGGAL : 15 JUNI 2015  
 NO. 602.2/15.07-1/SDA.372/19

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Disediakan

Disetujui

KADISDA SDA, Cikembar, PPK

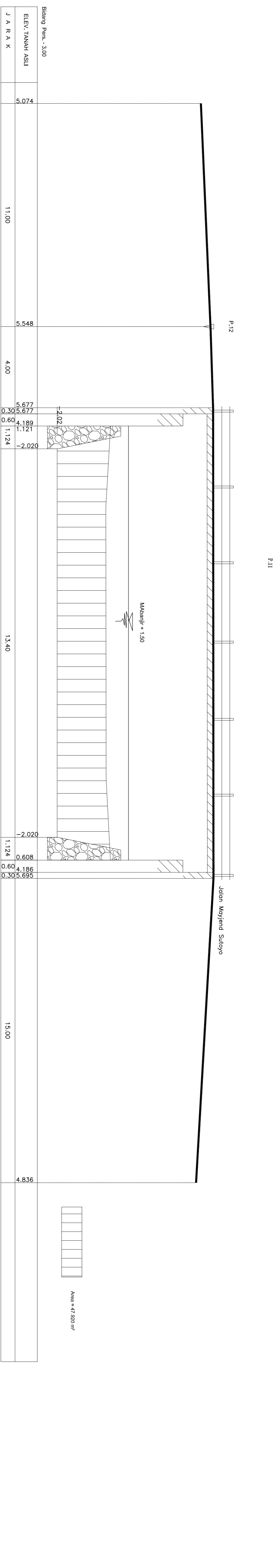
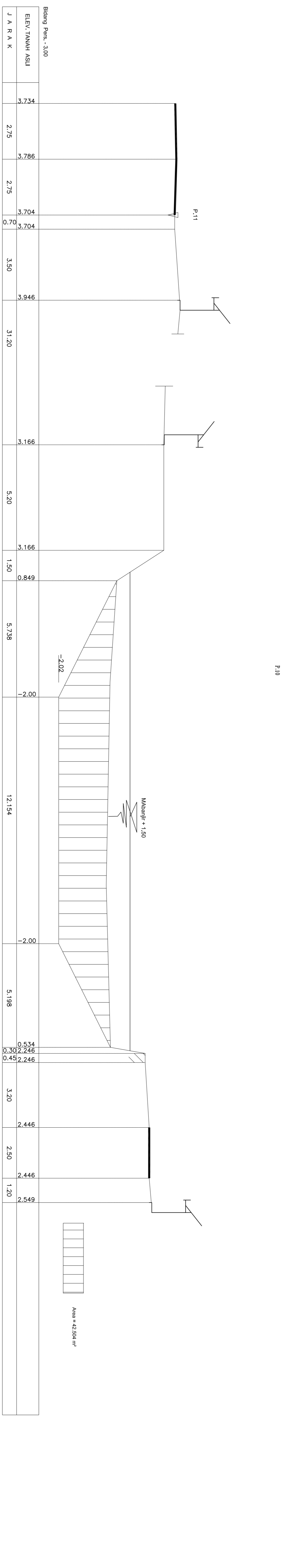
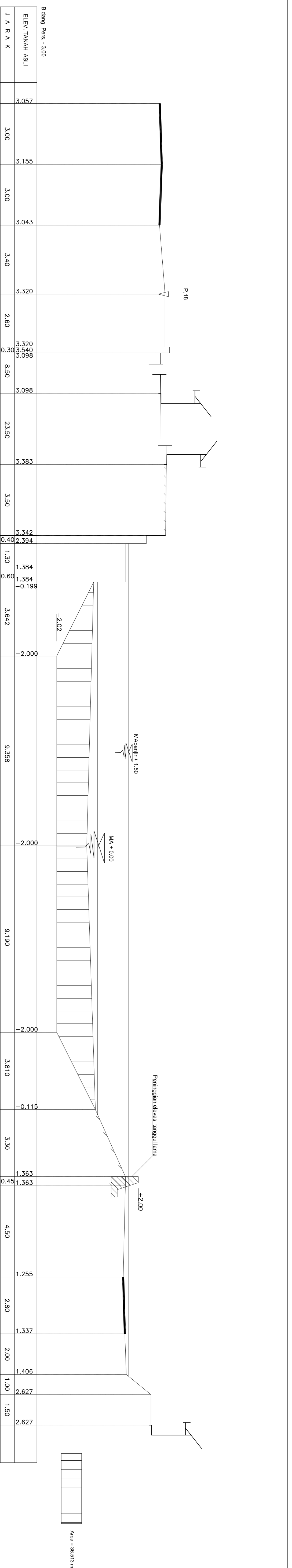
PRPK

TAJAM LENDER

Rudy Anggrana, ST

16.06.2015

15 JUNI 2015



P.10

P.11

P.12

Bidang Atas ELEM. TANAH ASLI J A R A K	3.057 3.00 3.00 3.40 2.80 0.30 8.50 23.50 3.50 0.40 1.30 0.60 3.642 9.358 9.190 3.810 3.30 0.45 1.363 4.50 1.255 2.80 1.337 2.00 1.406 2.627 1.50 2.627	3.00 3.00 3.00 3.40 2.80 0.30 8.50 23.50 3.50 0.40 1.30 0.60 3.642 9.358 9.190 3.810 3.30 0.45 1.363 4.50 1.255 2.80 1.337 2.00 1.406 2.627 1.50 2.627	3.00 3.00 3.00 3.40 2.80 0.30 8.50 23.50 3.50 0.40 1.30 0.60 3.642 9.358 9.190 3.810 3.30 0.45 1.363 4.50 1.255 2.80 1.337 2.00 1.406 2.627 1.50 2.627	3.00 3.00 3.00 3.40 2.80 0.30 8.50 23.50 3.50 0.40 1.30 0.60 3.642 9.358 9.190 3.810 3.30 0.45 1.363 4.50 1.255 2.80 1.337 2.00 1.406 2.627 1.50 2.627
----------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

P.11

Area = 47,820 m<sup>2</sup>

P.12

Area = 42,504 m<sup>2</sup>

P.12

Area = 56,513 m<sup>2</sup>

**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Kemuning No. 507, Cilacap, Jawa Tengah Telp. (0282) 349003

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

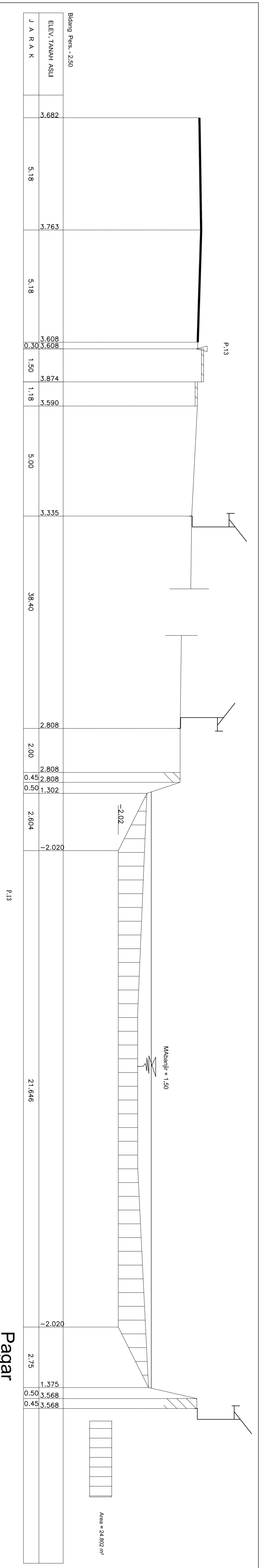
KABUPATEN : CILACAP  
 NO. REGISTRER : 11 / 25  
 NO. JUDIAL. LBR : 11 / 25  
 TANGGAL : NO KONTRAK

GAMBAR :  
 POTONGAN MELINTANG (P.10 - P.12)

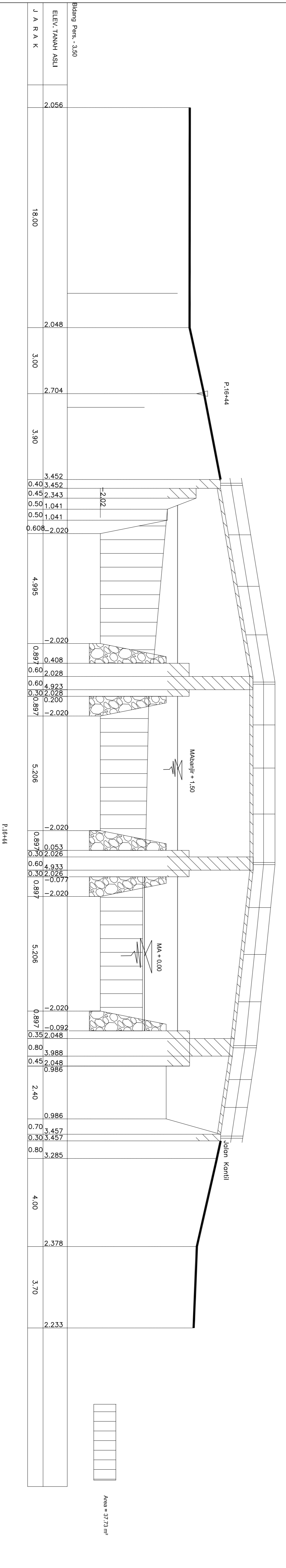
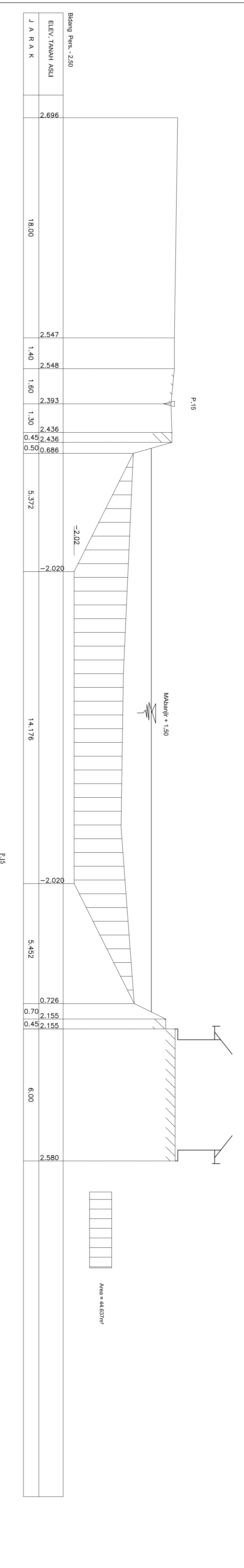
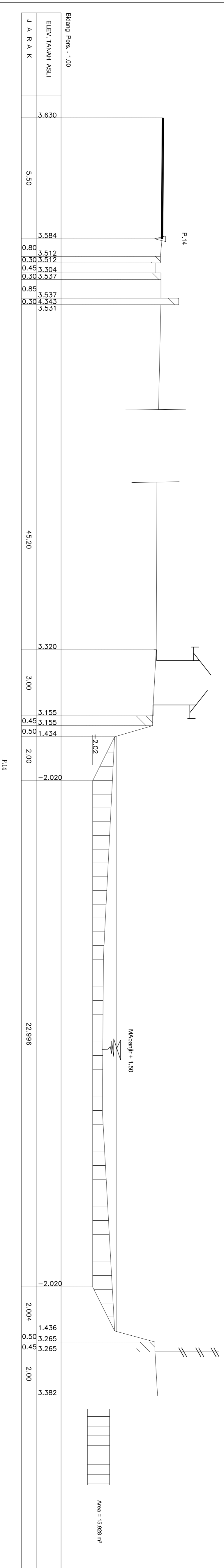
KABUPATEN : CILACAP  
 NO. REGISTRER : 11 / 25  
 NO. JUDIAL. LBR : 11 / 25  
 TANGGAL : NO KONTRAK

15 JUNI 2015 602.2/15.07-1/SDA.372/19

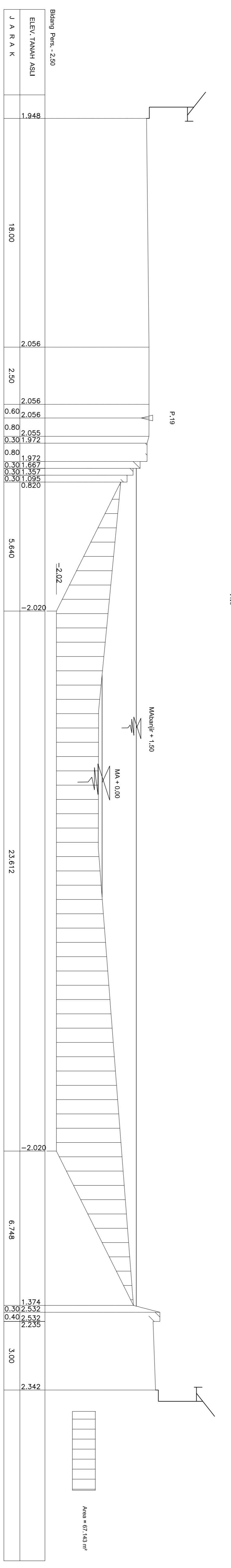
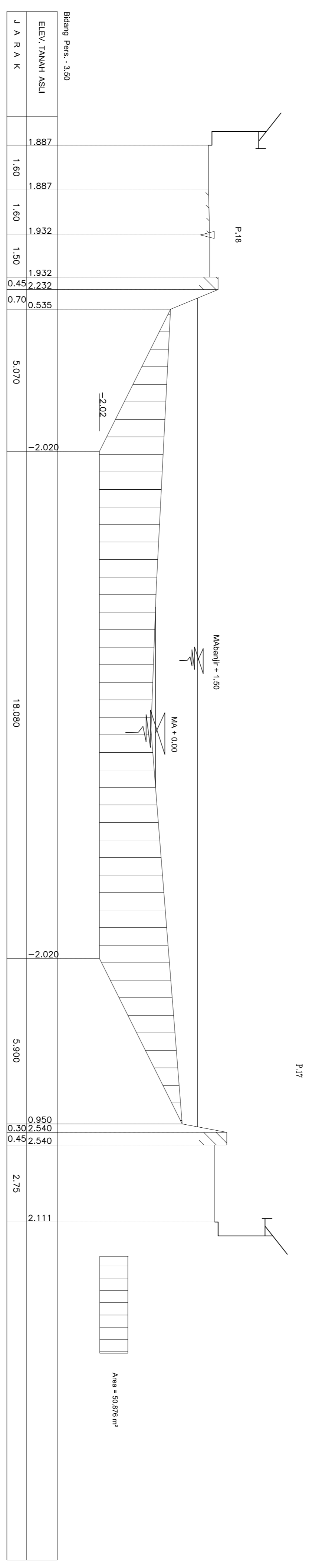
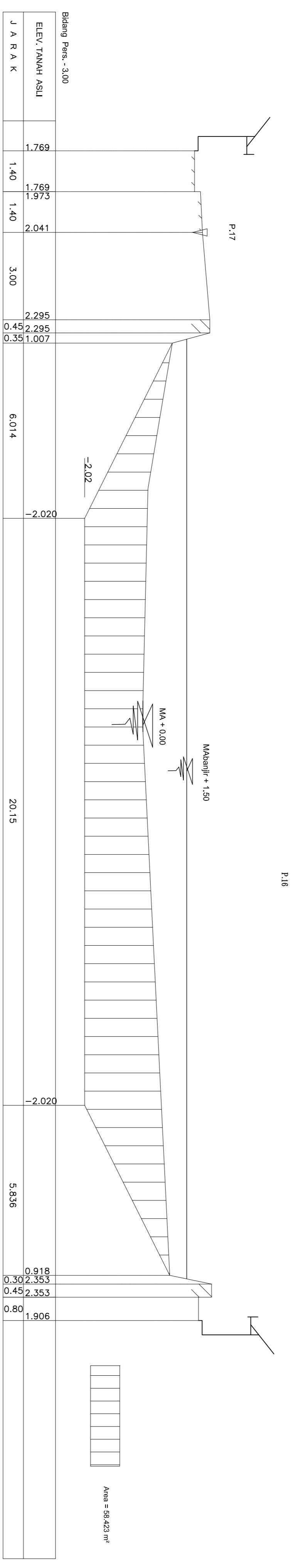
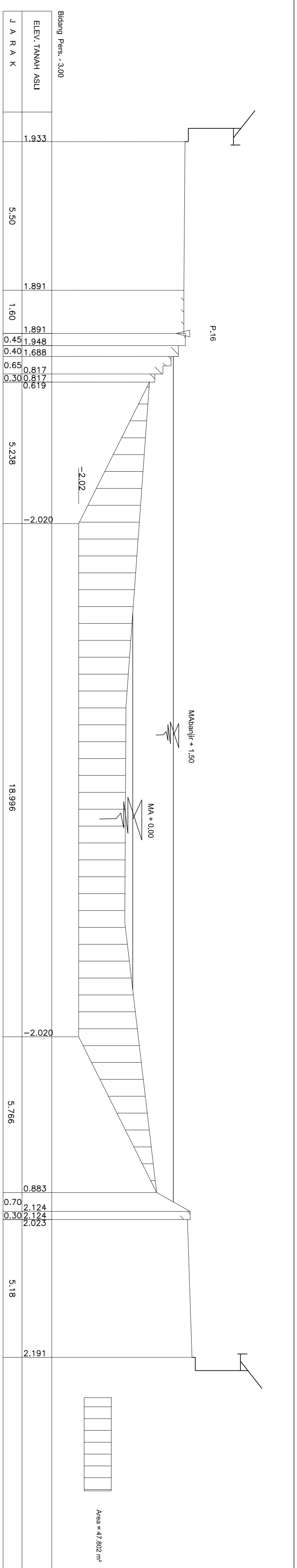
PT. SUPRANARMONIA KONSULTING & ENGINEERING	DIPADAKAR TEMAT LEADER	Rudy Anggrana, ST H. Bambang Sulaksana, MSCE	PRPK Kantor Sipil ST Selandi Medial SIPR - ST - MAM	KADID SDA, sesuai PRPK	yang direvisi	oleh	ditenc.	diset	Disetujui
no. rev	tgl								



Pagar



<b>PERMINTAH KABUPATEN CILACAP</b>																		
<b>DINAS BINA MARGA SUMBER DAYA AIR</b>																		
<b>ENERGI DAN SUMBER DAYA MINERAL</b>																		
Jl. Mt. Kemuning No. 572, Cilacap, Jawa Tengah, Telp. (0282) 349003																		
PROVINSI: <b>JAWA TENGAH</b>		PEKERJAAN: <b>DED KALIVASA</b>																
GAMBAR : <b>POTONGAN MELINTANG (P.13 - P.16+44)</b>																		
KABUPATEN : <b>CILACAP</b>		NO. JILID, LBR : <b>12 / 25</b>																
NO. REGISTER : <b>TANGGAL</b>		NO. KONTRAK																
15 JUNI 2015		602.2/15.07-1/SDA.372/19																
<table border="1"> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">DIDAKAR</td> <td style="text-align: center;">Rud. Anggra, ST</td> </tr> <tr> <td style="text-align: center;">PT. SUPRAHARMONA ENGINEERING &amp; CONSULTING</td> <td style="text-align: center;">TEAM LEADER</td> <td style="text-align: center;">H. Bambang Sulhono, MSCE</td> </tr> <tr> <td style="text-align: center;">PRTK</td> <td style="text-align: center;">K. Hari Dinda, ST</td> <td></td> </tr> <tr> <td style="text-align: center;">NIP. 1560705 197003 1 002</td> <td style="text-align: center;">Suardi Harahul, SIP, ST, MM</td> <td></td> </tr> <tr> <td style="text-align: center;">NIP. 1963042 198603 1 005</td> <td></td> <td></td> </tr> </table>					DIDAKAR	Rud. Anggra, ST	PT. SUPRAHARMONA ENGINEERING & CONSULTING	TEAM LEADER	H. Bambang Sulhono, MSCE	PRTK	K. Hari Dinda, ST		NIP. 1560705 197003 1 002	Suardi Harahul, SIP, ST, MM		NIP. 1963042 198603 1 005		
	DIDAKAR	Rud. Anggra, ST																
PT. SUPRAHARMONA ENGINEERING & CONSULTING	TEAM LEADER	H. Bambang Sulhono, MSCE																
PRTK	K. Hari Dinda, ST																	
NIP. 1560705 197003 1 002	Suardi Harahul, SIP, ST, MM																	
NIP. 1963042 198603 1 005																		
no. rev	tgl	yang direvisi	oleh direnc. diset															



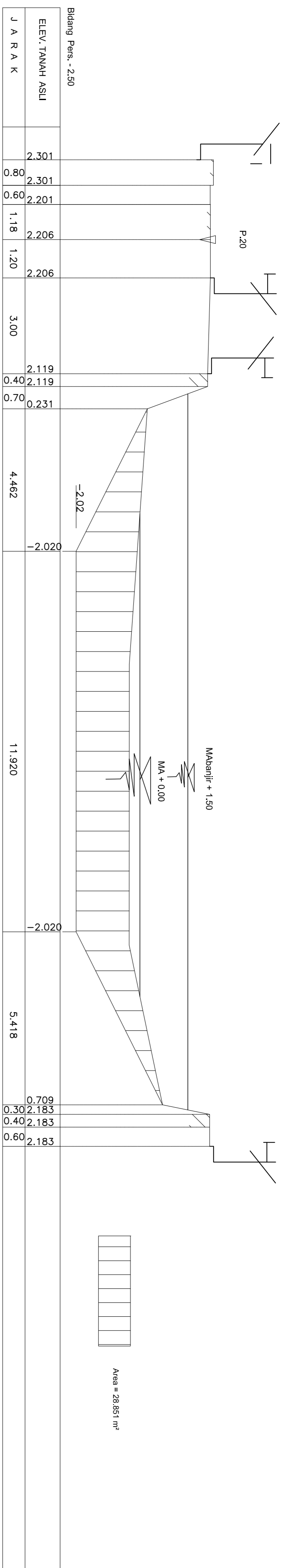
GAMBAR : POTONGAN MELINTANG (P.16 - P.19)  
 NO. REGISTRER : 13 / 25  
 NO. JUMIL. LBR : NO KONTRAK

PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 PEKERJAAN : DBO KALUYASA

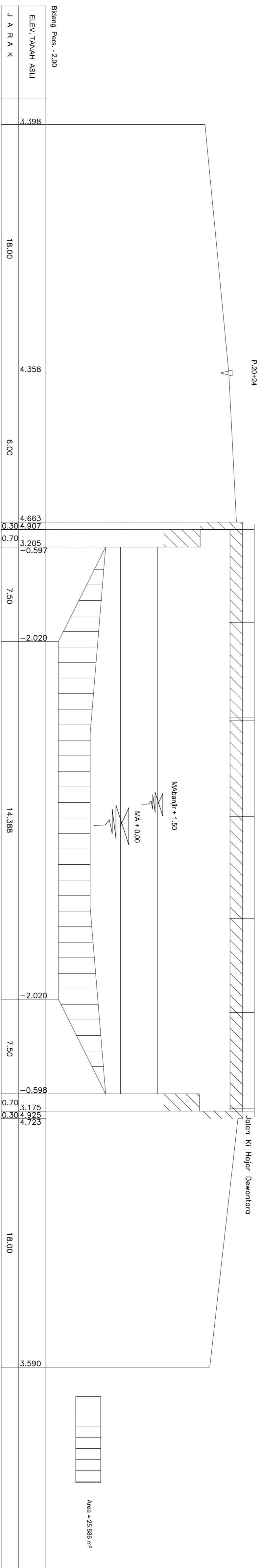
PEMERINTAH KABUPATEN CILACAP  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL  
 Jl. Mt. Kemuning No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349003

Disetujui : KARDI SUDA, Kepala PPK  
 Disetujui : Rudi Anggrana, ST  
 PT. SUPRANARMONIA KONSULTINDO  
 Timah Lender, H. Bambang Sulaksana, MScE  
 NIP. 15607051990031002  
 NIP. 196304121998031005

yang direvisi :  
 oleh :  
 ditenc :  
 diset :  
 15 JUNI 2015  
 602.2/15.07-1/SDA.372/19

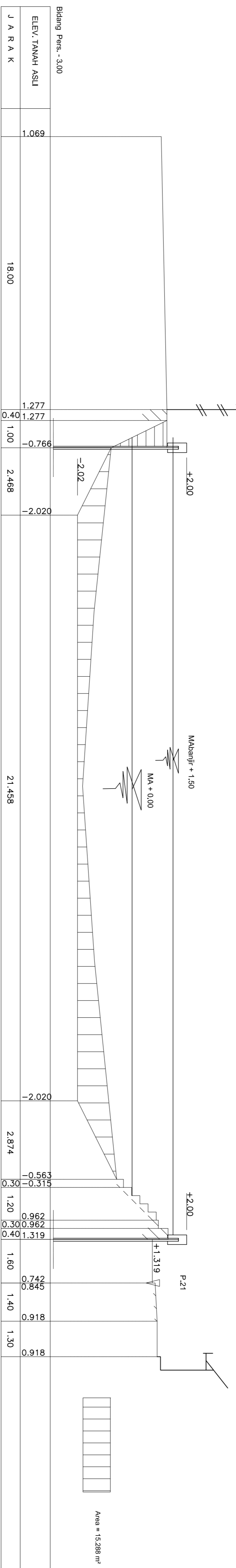


P.20

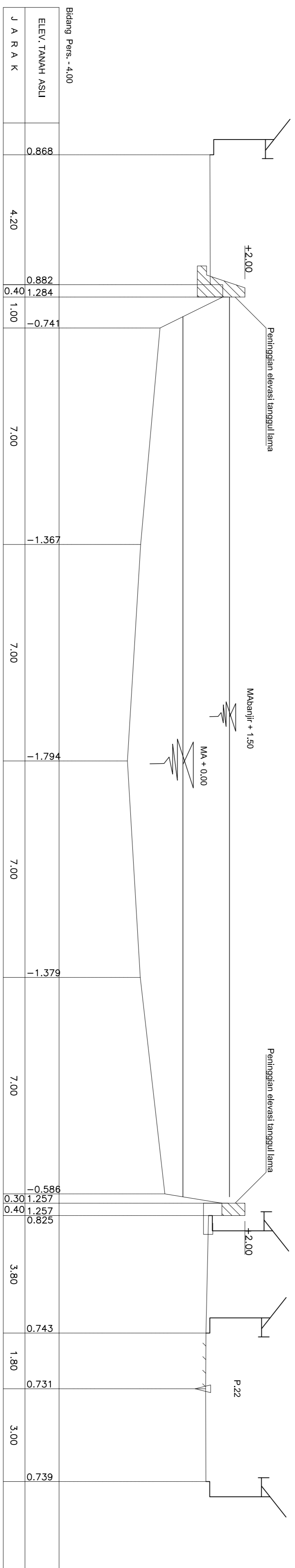


P.20/24

Pagar



P.21



P.22

GAMBAR :  
**POTONGAN MELINTANG (P.20 - P.22)**

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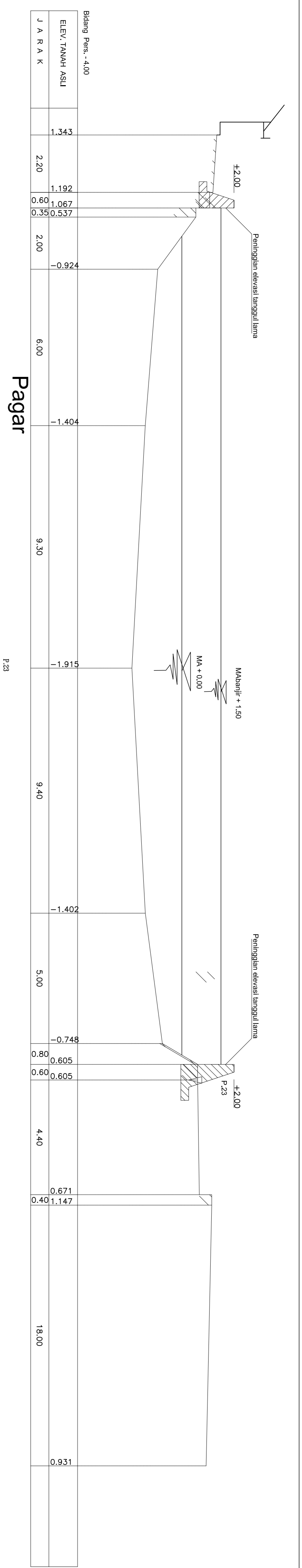
**PT. SUPRAHARMONIA KONSULTINDO**  
 PT. SUPRAHARMONIA KONSULTINDO  
 Jln. Mt. Kemuning No. 107, Cikemp, Jawa Tengah, Telp. (0282) 249003

**PEMERINTAH KABUPATEN CILACAP**  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL

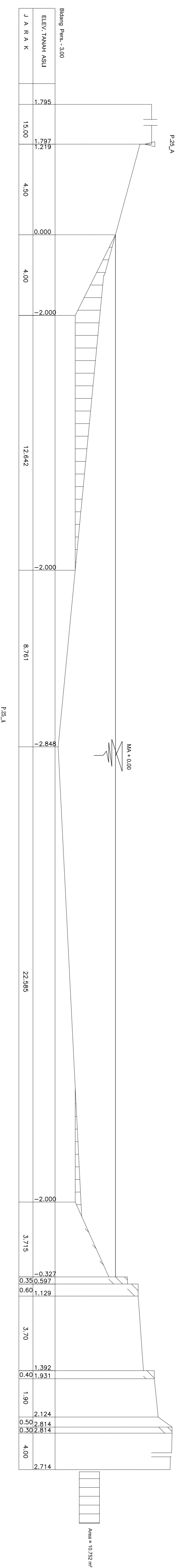
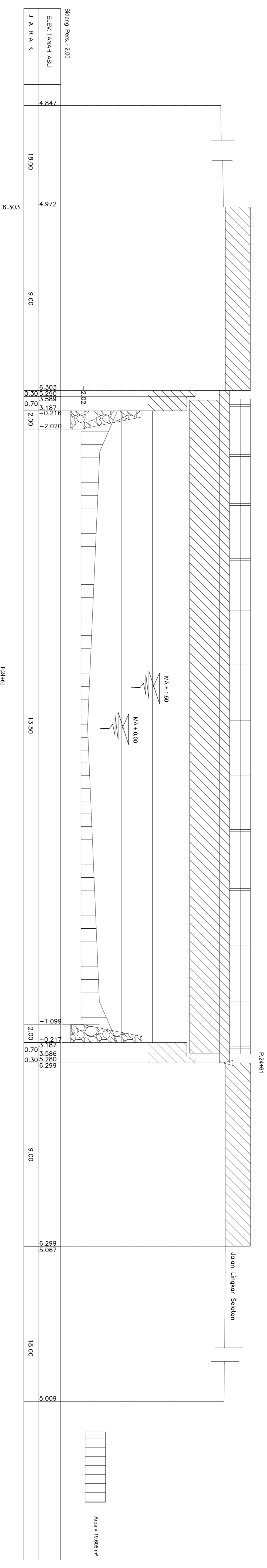
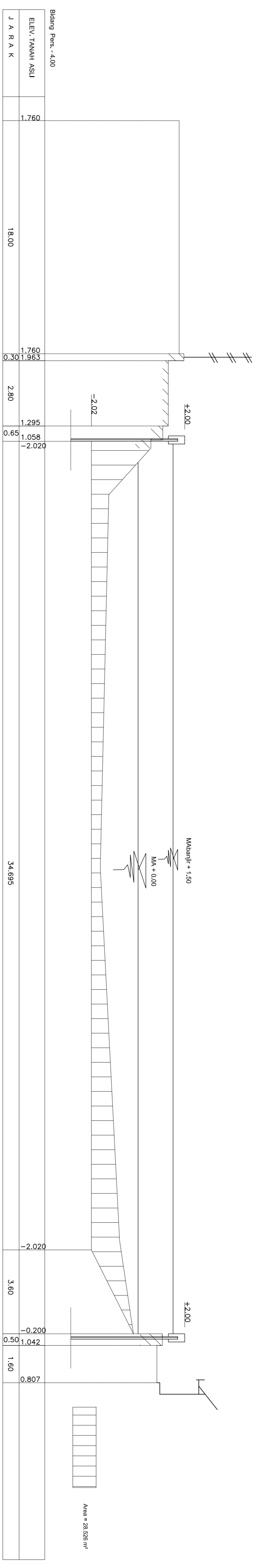
PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

KABUPATEN : CILACAP  
 NO. REGISTRER : 14 / 25  
 NO. JUMIL. LBR : NO KONTRAK

15 JUNI 2015  
 602.2/15.07-1/SDA.372/19



Pagar



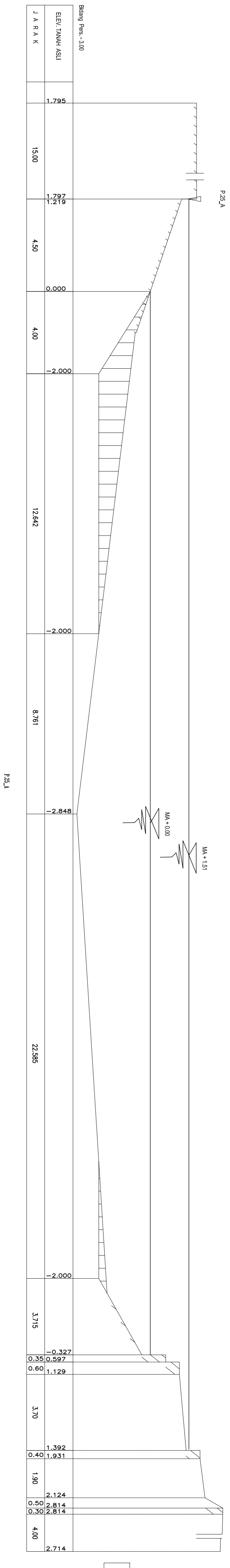
**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. KH. Hasyim No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349003

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

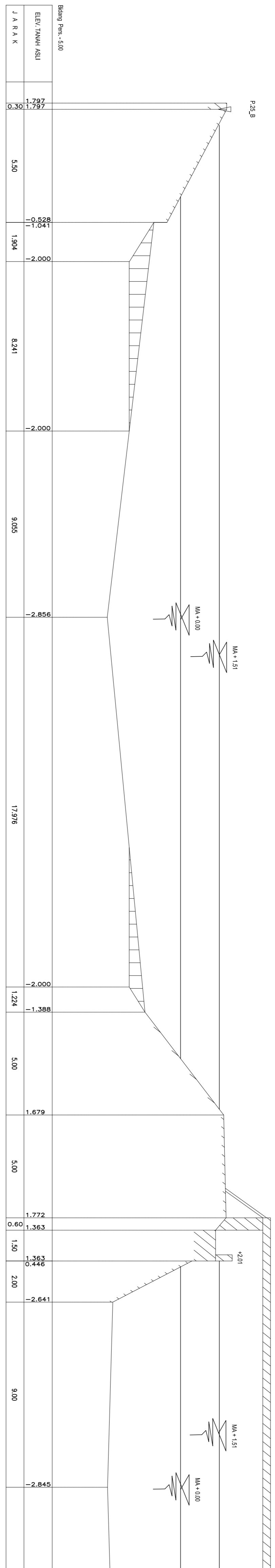
KABUPATEN : CILACAP  
 NO. REGISTRER : 15 / 25  
 NO. JUMIL. LBR : 15 / 25  
 TANGGAL : NO KONTRAK

GAMBAR : POTONGAN MELINTANG (P.23 - P.25)

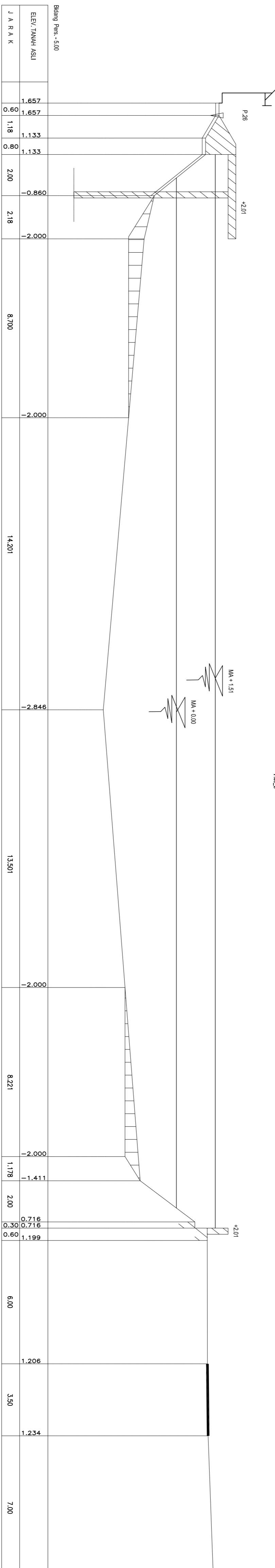
Disetujui	Diketahui	Disetujui	Disetujui
KADIB DAU, selaku PPK	PT. SUPRANARMONIA Konsultansi & Jasa Konstruksi	TEMAI LENDIR Konsultansi & Jasa Konstruksi	Rudy Anggrana, ST I. Bambang Sulaksana, MScE
PRK	Konsultansi & Jasa Konstruksi	Konsultansi & Jasa Konstruksi	Konsultansi & Jasa Konstruksi
NIP. 1560705 199003 1 002	NIP. 1560705 199003 1 002	NIP. 1560705 199003 1 002	NIP. 1560705 199003 1 002
15 JUNI 2015	602.2/15.07-1/SDA.372/19		



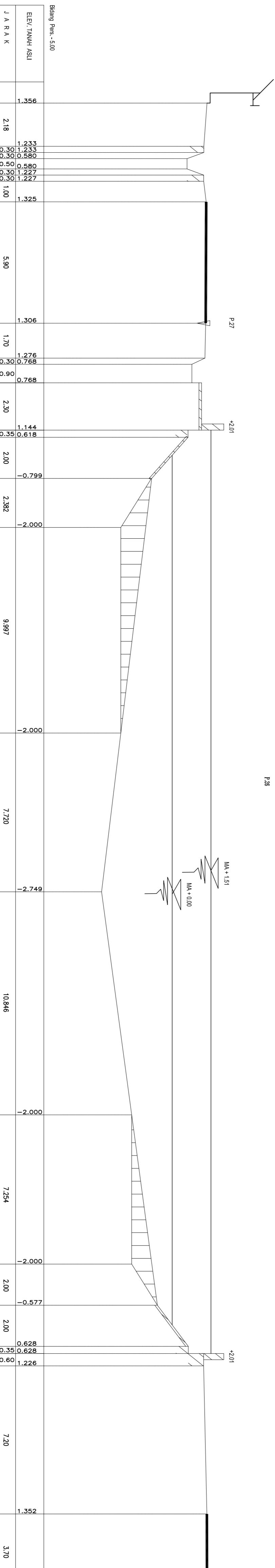
Bidang Pem. - 3.00	ELEV. TAWAN ASU	J A R A K	15.00	1.797	1.216	4.50	0.000	4.00	-2.000	12.642	-2.000	8.781	-2.848	-2.000	22.585	10.327	0.357	0.60	1.129	3.70	1.392	1.931	0.40	1.90	2.124	1.814	0.50	2.814	4.00	2.714
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Bidang Pem. - 5.00	ELEV. TAWAN ASU	J A R A K	17.976	1.797	1.797	5.00	-1.041	1.964	-2.000	9.055	-2.000	17.976	-2.856	-2.000	17.976	1.722	1.363	1.50	0.448	2.00	-2.641	9.00	-2.845	9.00	1.80	1.202	1.202	1.80
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Bidang Pem. - 5.00	ELEV. TAWAN ASU	J A R A K	14.201	1.657	1.133	2.00	-0.860	2.18	-2.000	8.700	-2.000	14.201	-2.846	-2.000	13.501	0.716	0.716	0.90	1.199	6.00	1.206	1.234	7.00	1.439	1.202	1.202	1.80
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Bidang Pem. - 5.00	ELEV. TAWAN ASU	J A R A K	10.846	1.356	1.233	2.30	0.588	1.325	0.768	5.90	0.768	10.846	-2.000	-2.000	9.997	1.144	0.618	2.00	2.382	-2.000	7.720	-2.749	7.720	1.352	3.70	1.358	1.357
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**POTONGAN MELINTANG (P.25 - P.27)**

<b>PT. SUPRAHARMONIA</b> Konsultansi & Perencanaan		Disusun oleh : KADID SDA, selaku PPK	
PT. SUPRAHARMONIA Jln. Mt. Kemuning No. 572, Cikembar, Jawa Tengah (5282) 349003	Dihadirkan : Rudi Anggrana, ST	Disetujui : KADID SDA, selaku PPK	Ditinjau : Rudi Anggrana, ST
PT. SUPRAHARMONIA Jln. Mt. Kemuning No. 572, Cikembar, Jawa Tengah (5282) 349003	Disetujui : KADID SDA, selaku PPK	Disetujui : KADID SDA, selaku PPK	Disetujui : KADID SDA, selaku PPK

**POTONGAN MELINTANG (P.25 - P.27)**

PROVINSI : JAWA TENGAH KABUPATEN : CILACAP NO. REGISTRER : 16 / 25 NO. JUMIL. LBR : NO KONTRAK	PEMERINTAH KABUPATEN CILACAP DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL Jl. Mt. Kemuning No. 572, Cikembar, Jawa Tengah (5282) 349003
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GAMBAR : POTONGAN MELINTANG (P.25 - P.27)

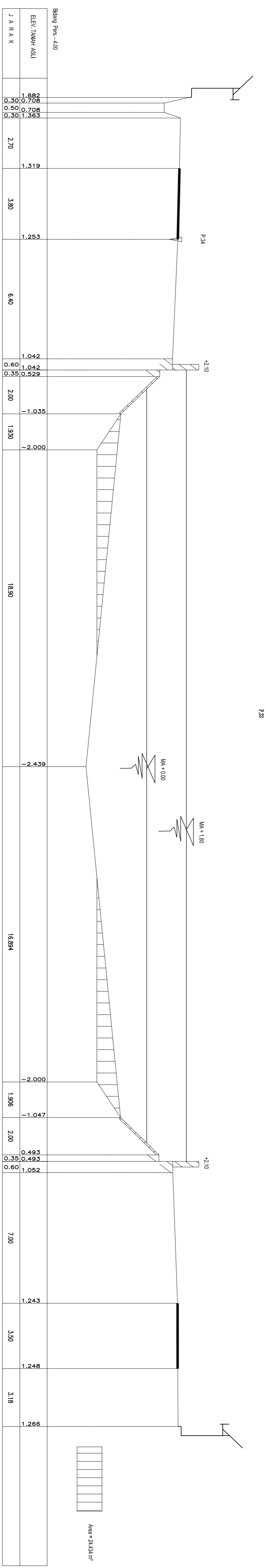
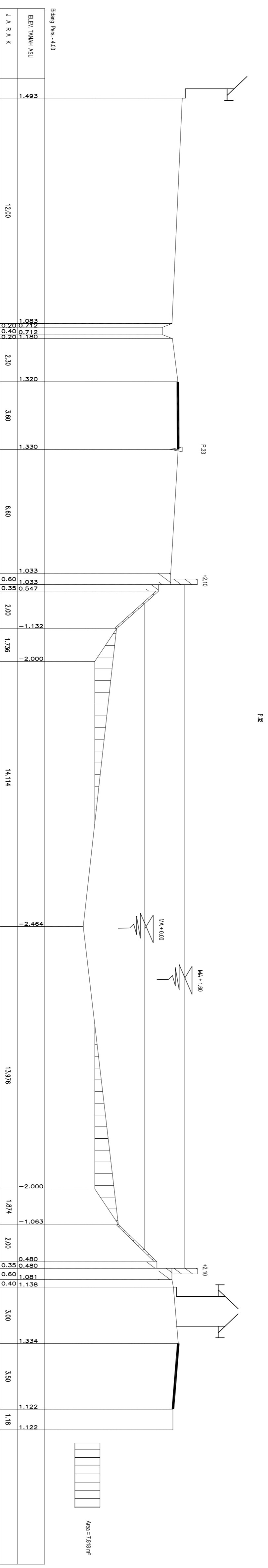
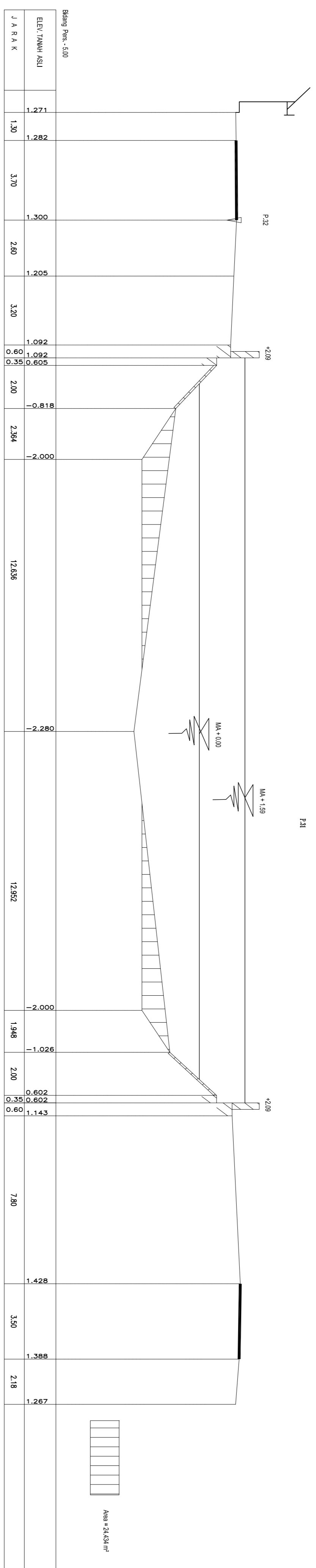
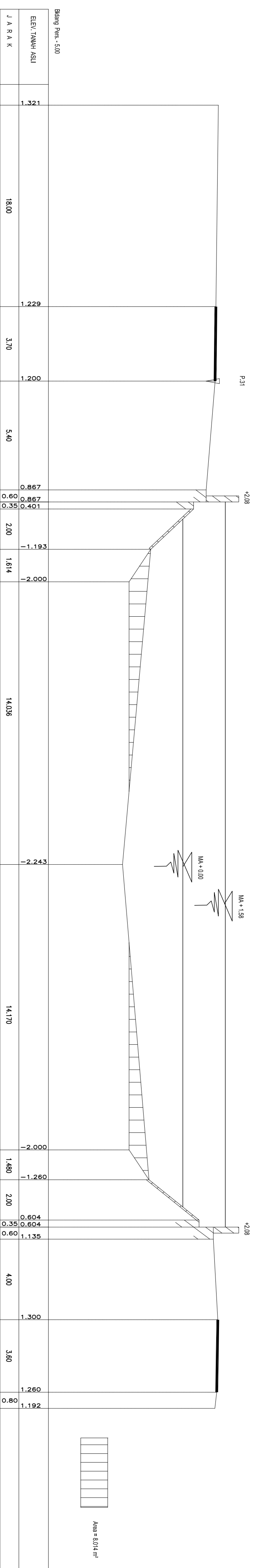
NO. REGISTRER : 16 / 25 NO. JUMIL. LBR : NO KONTRAK	KABUPATEN : CILACAP NO. REGISTRER : 16 / 25 NO. JUMIL. LBR : NO KONTRAK
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15 JUNI 2015

602.2/15.07-1/SDA.372/19







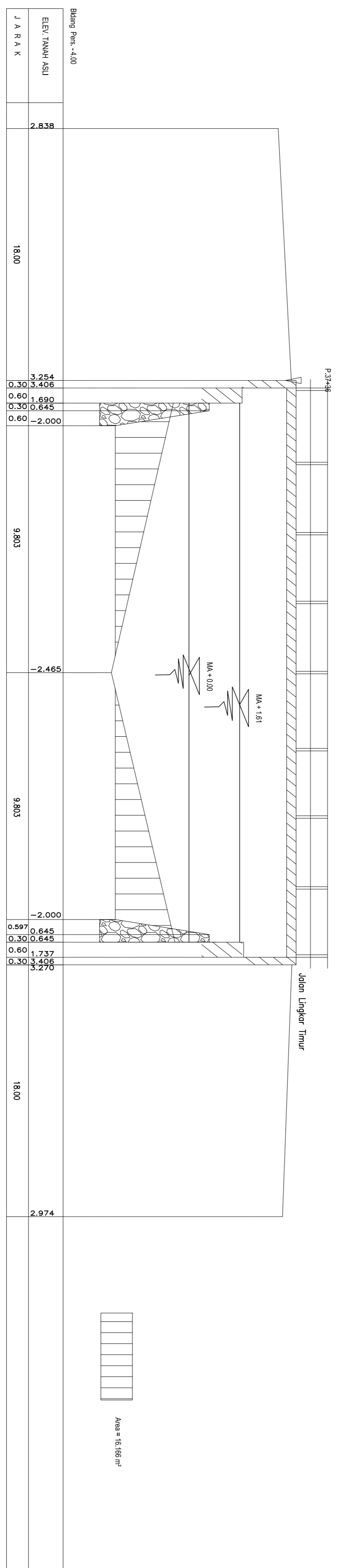
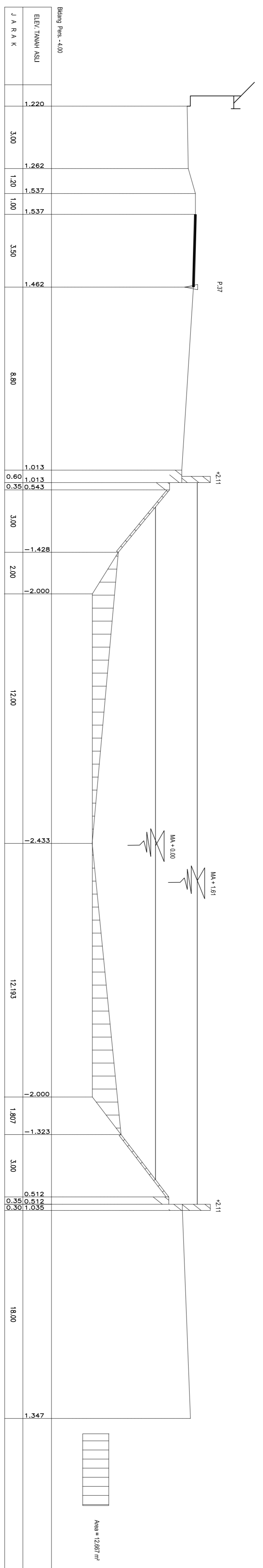
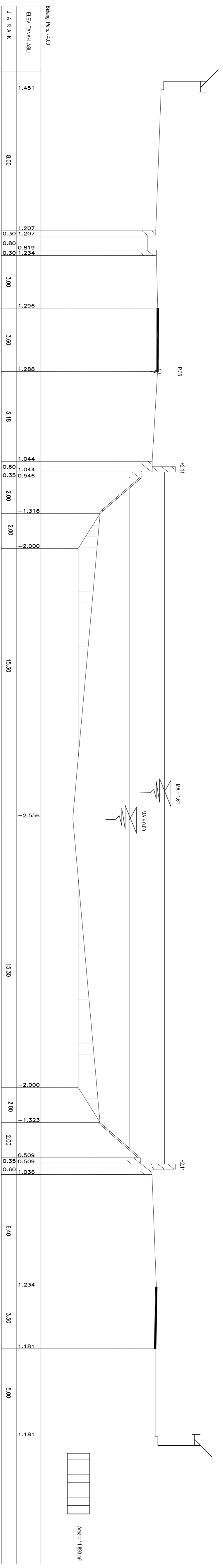
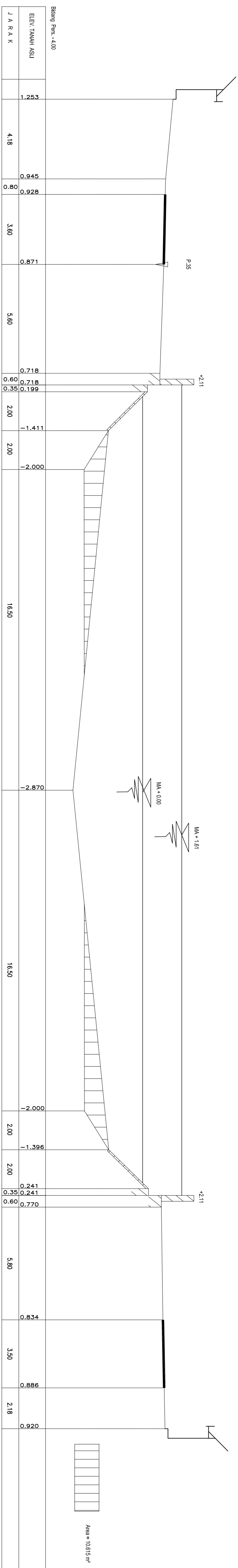
PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 18 / 25  
 NO. JUMIL. LBR : NO KONTRAK

GAMBAR : POTONGAN MELINTANG (P.31 - P.34)  
 PEMERINTAH KABUPATEN CILACAP  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL  
 Jl. Mt. Kemuning No. 572, Cilacap, Jawa Tengah Telp. (0282) 349003

no. rev	tgl	yang direvisi	oleh	dicorek	diset	Disetujui

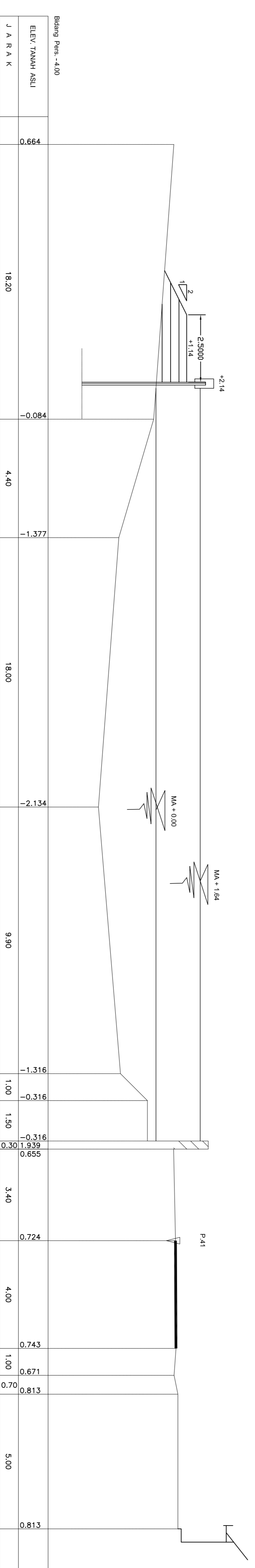
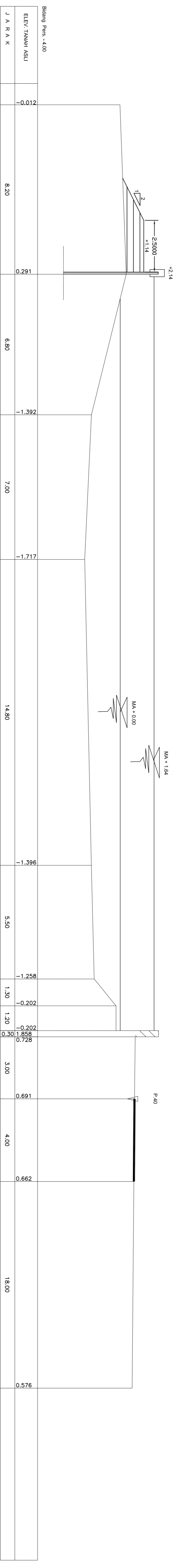
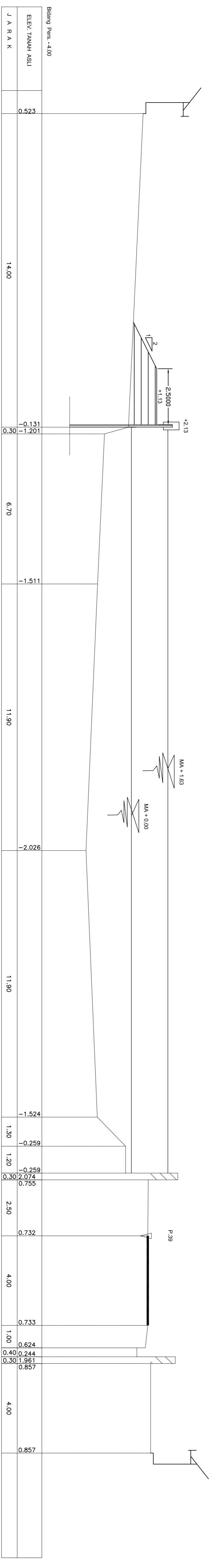
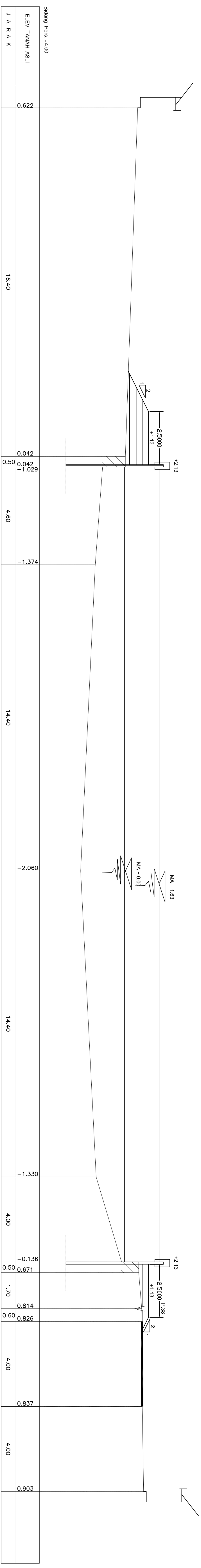
PT SUPRAHARMONIA KONSULTING	DIDAGABAR	Rud. Anggrana, ST
PTK	TEMA LEADER	I. Bambang Sulaksana, MSCE
KABID SDA, selaku PPK	K. Saiful Hudaq, ST	
	Sahadi Hudaq, SIP, ST, MM	
	NIP. 19630412 199803 1 005	

PROVINSI : JAWA TENGAH	NO. REGISTRER : 18 / 25
KABUPATEN : CILACAP	NO. JUMIL. LBR : NO KONTRAK
15 JUNI 2015	602.2/15.07-1/SDA.372/19



<b>PT. SUPRAHARMONIA</b> Konsultansi & Perencanaan		Disiapkan <b>PT. SUPRAHARMONIA</b> Konsultansi & Perencanaan		Rd. Anggana, ST K. Bumiayu, Subhono, ANJIE	
No. Rev 191		yang direvisi		oleh direnc. diset	
Disetujui		Disetujui		KADISDA, Bekasi, 1905	
15 JUNI 2015		602.2/15.07-1/SDA.372/19		PROVINSI : JAWA TENGAH KABUPATEN : CLACAP NO. REGISTRER : 19 / 25 NO. JUMIL. LBR : NO KONTRAK	

**PEMERINTAH KABUPATEN CLACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Merapi No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349803



**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. M.H. Thamrin No. 87/2, Cilacap, Jawa Tengah Telp.(0282) 349003

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

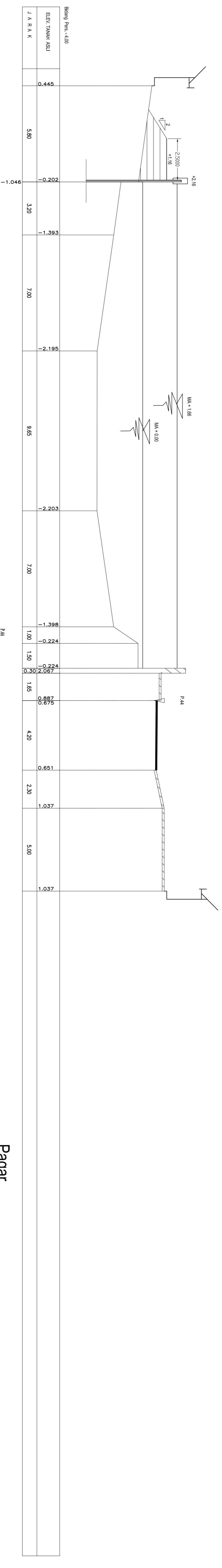
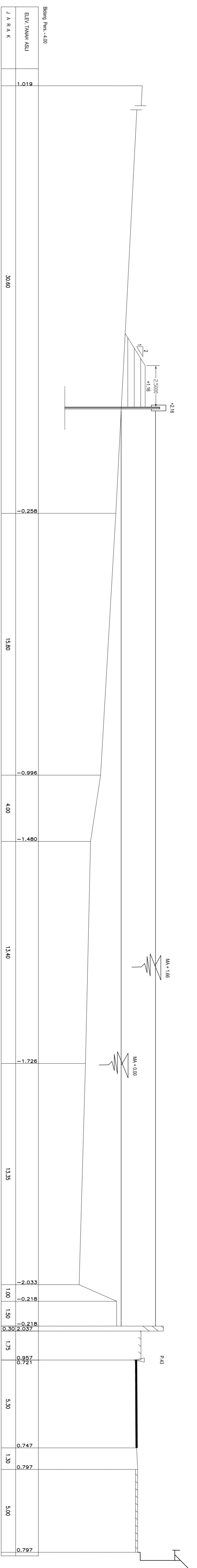
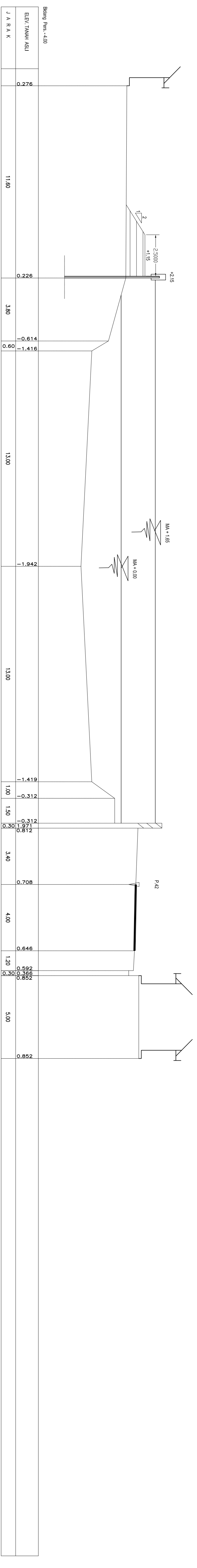
GAMBAR : POTONGAN MELINTANG (P.38 - P.41)

KABUPATEN : CILACAP  
 NO.REGISTER : 20 / 25  
 NO.JUML. LBR : NO.KONTRAK

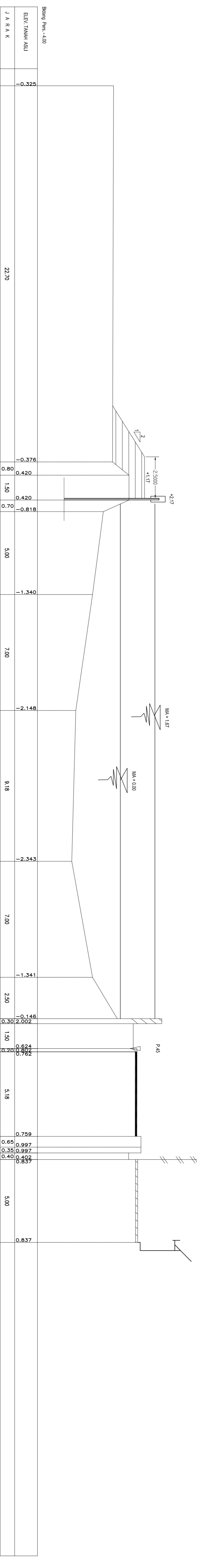
Disetujui : **PT. SUPRAHARMONIA KONSULTINDO**  
 Ir. Bambang Sulaksana, MScE  
 NIP. 1960705 199003 1 002  
 NIP. 1963042 199803 1 005

yang direvisi  
 oleh :  
 direnc. :  
 diset :

15 JUNI 2015  
 602.2/15.07-1/SDA.372/19



Pagar



PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 21 / 25  
 NO. JUMIL. LBR : NO KONTRAK

POTONGAN MELINTANG (P.42 - P.45)

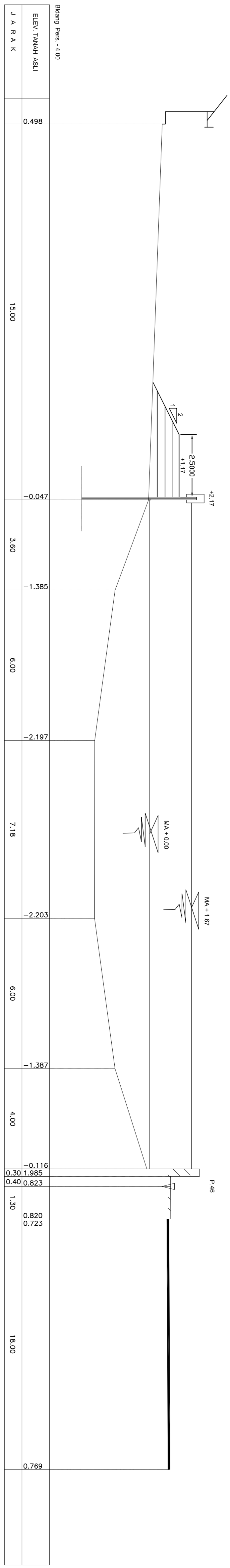
PEMERINTAH KABUPATEN CILACAP  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL  
 Jl. Mt. Kemuning No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349003

Disetujui :  
 KARDI SDA, Kepala DPMK

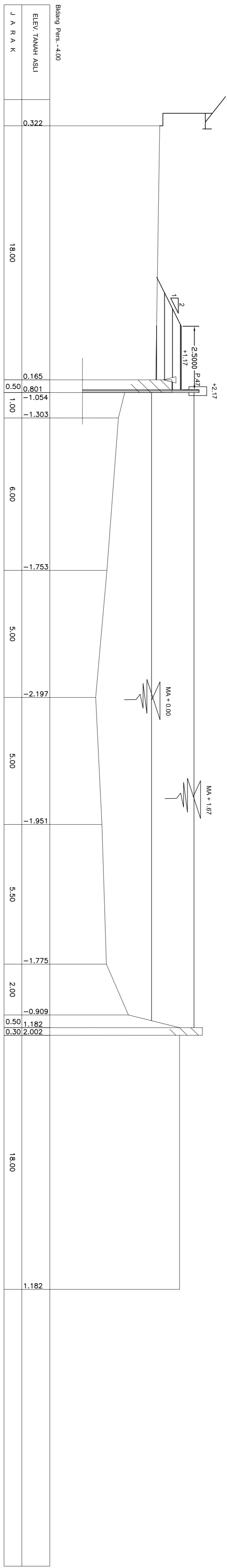
PT. SUPRAHARMONIA  
 Konsultansi Teknik Sipil dan Struktur  
 PTSPK  
 Telp. 1560705 199703 1 002  
 Smanid Industrial SIP - ST - MM  
 NIP. 19630412 199803 1 005

Dibuat oleh :  
 Rudy Anggrana, ST  
 Ir. Bambang Sulaksana, MScE  
 Kardi SDA, ST  
 NIP. 19630412 199803 1 005

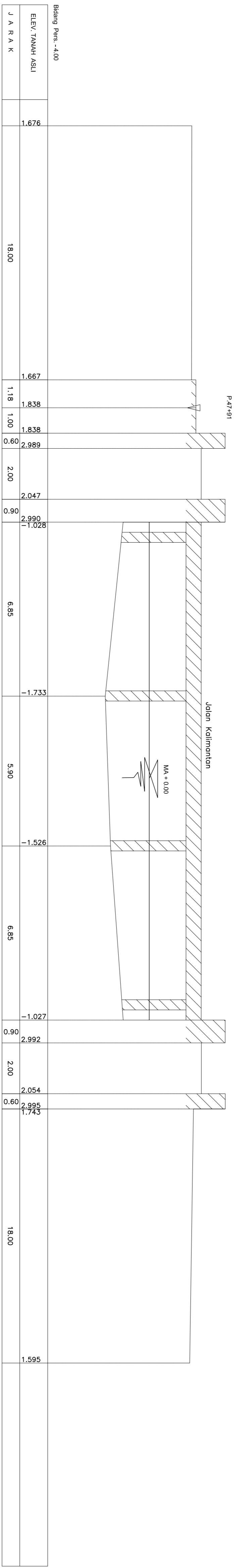
15 JUNI 2015  
 602.2/15.07-1/SDA.372/19



P.46



P.47



P.47+91

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 22 / 25  
 NO. JUMAL. LBR :  
 TANGGAL : NO KONTRAK

GAMBAR :  
**POTONGAN MELINTANG (P.46 - P.47+91)**

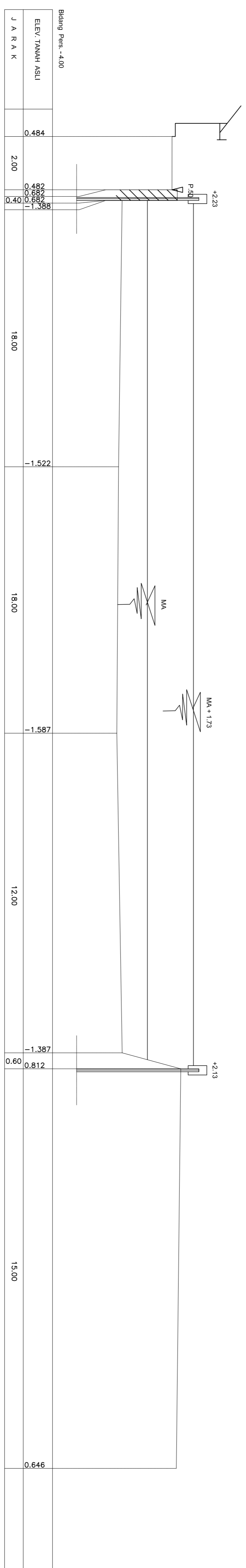
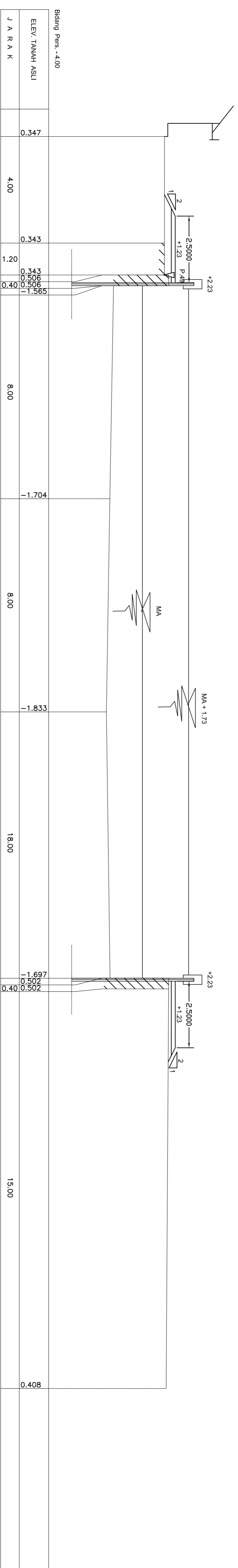
PT. SUPRANARMONIA  
 Konsultansi  
 Gedung 1, Jalan Sekeloa 3, Jakarta Barat

Disetujui  
 KARDI SIDA, selaku IrPK

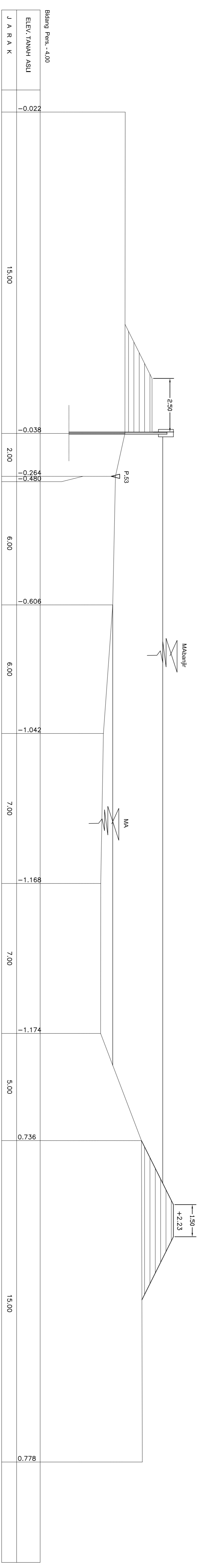
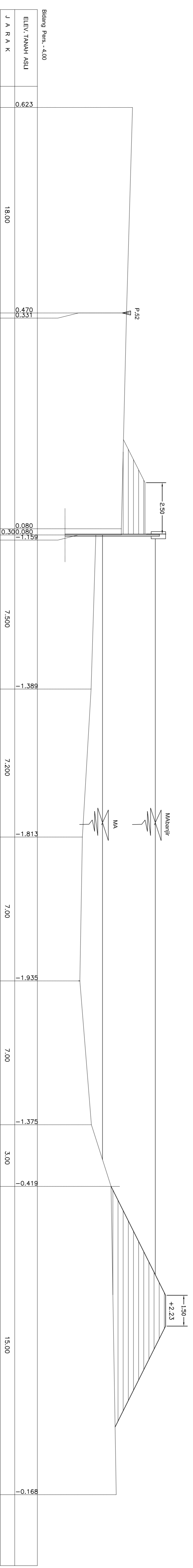
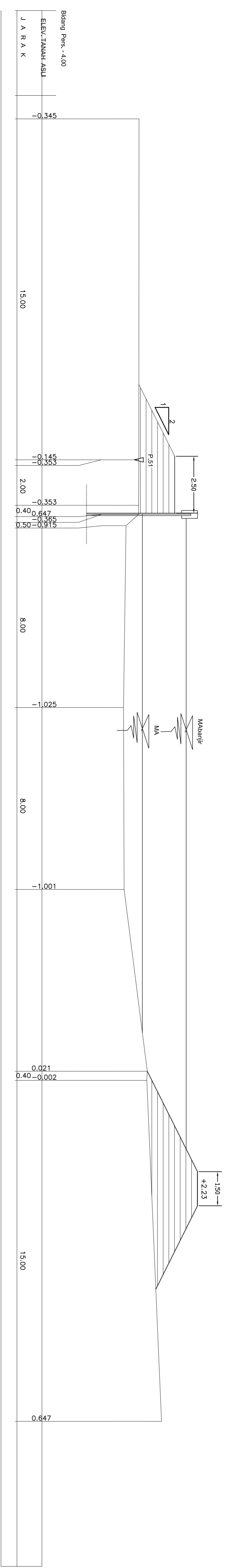
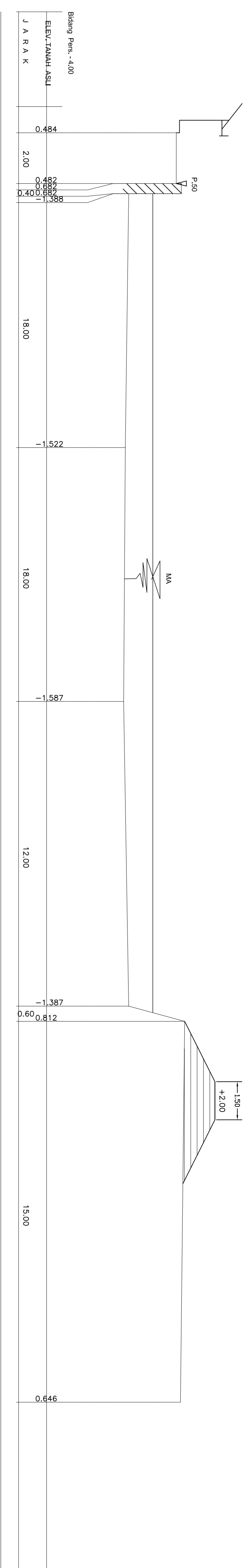
Disetujui  
 KARDI SIDA, selaku IrPK

15 JUNI 2015  
 602.2/15.07-1/SDA.372/19

no. rev	tgl	yang direvisi	oleh	dicoreksi	disetujui



<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL Jl. M.H. Thamrin No. 87, Cilacap, Jawa Tengah Telp. (0283) 349003		PROVINSI : JAWA TENGAH PERENCANA : DEO KALYASA	
GAMBAR :			
POTONGAN MELINTANG (P.47-91 - P.50)		KABUPATEN : CILACAP	
NO. JUDUL LBR : 23 / 25		NO. REGISTRER :	
TANGGAL : 15 JUNI 2015		NO. KONTRAK : 602.2/15.07-1/SDA.372/19	
Disetujui KADIBD SDA, Kepala Bidang		Disetujui Kepala Bidang SDA	
PT SUPRANARMONIA Konsultindo PTSPK KAPROK NIP. 1960705 199003 1 002 Selandi Medial SIP. ST. MA NIP. 19630412 199803 1 005		Disetujui Kepala Bidang SDA	
yang direvisi		oleh/ditenc./disai	
No. Rev		Ugi	




**PT. SUPRAHANANINDO**  
 Konsultan Teknik Sipil & Konstruksi

**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Merapi No. 107, Cilacap, Jawa Tengah Telp. (0282) 349603

Disetujui  
 KADIB DAU, selaku ppk

Disetujui  
 PPK  
 NIP. 15607051009031002  
 Suardi Hidayat, SIP, ST, MM  
 NIP. 198304121098031005

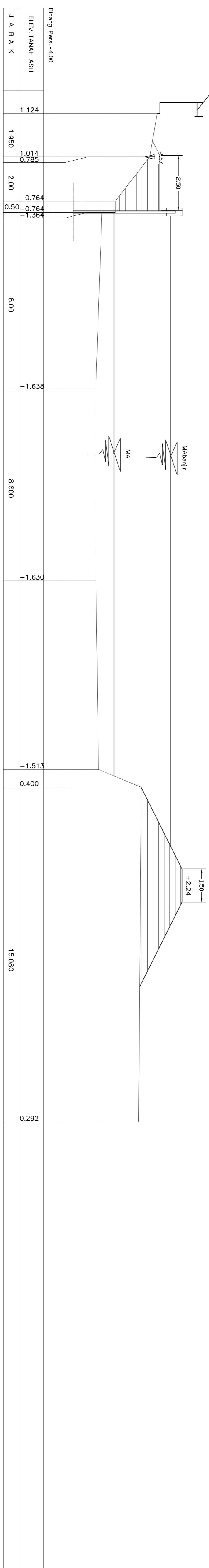
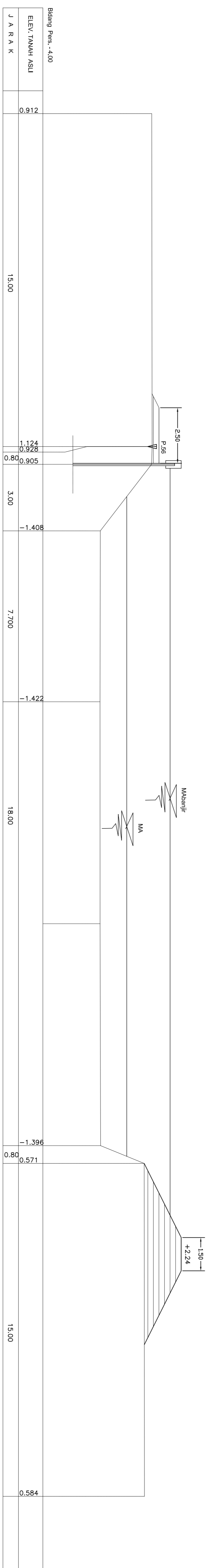
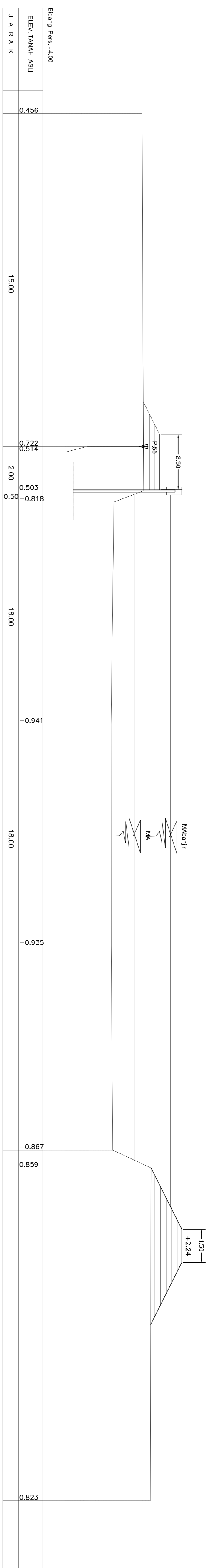
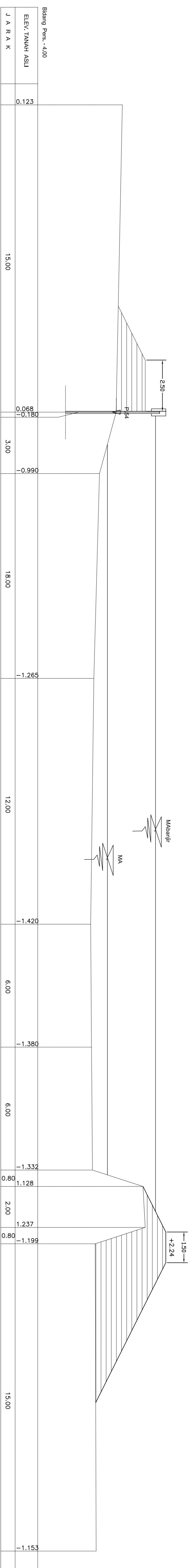
Disetujui  
 Disahkan  
 Kepala DAU, selaku ppk

Disetujui  
 Kepala DAU, selaku ppk

Disetujui  
 Kepala DAU, selaku ppk

Disetujui  
 Kepala DAU, selaku ppk

PROVINSI :	JAWA TENGAH				
KABUPATEN :	CILACAP				
NO. REGISTRER :	8 / 25				
NO. JUDIAL. LBR :	NO KONTRAK				
TANGGAL :					
GAMBAR :	POTONGAN MELINTANG (P.50 - P.53)				
NO. REV	UJI	yang direvisi	oleh	dicorek	diset



**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. MT Haryono No. 157 / Cilacap, Jawa Tengah Telp. (0282) 545603

PROVINSI : JAWA TENGAH  
 PEKERJAAN : GED KAU VASA

GAMBAR :  
 POTONGAN MELINTANG (P.54 - P.57)

KABUPATEN : CILACAP  
 NO. REGISTRER :  
 NO./JUML. LBR : 9 / 25  
 TANGGAL : NO.KONTRAK

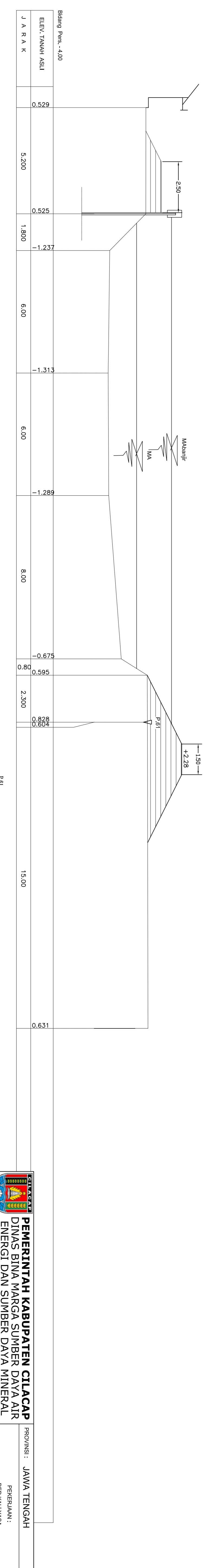
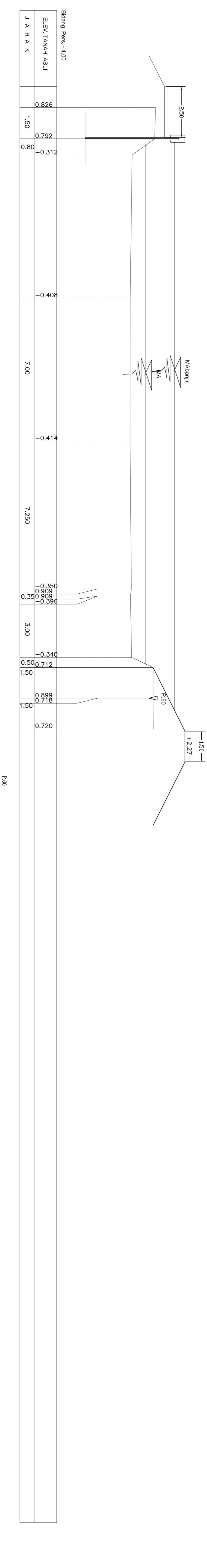
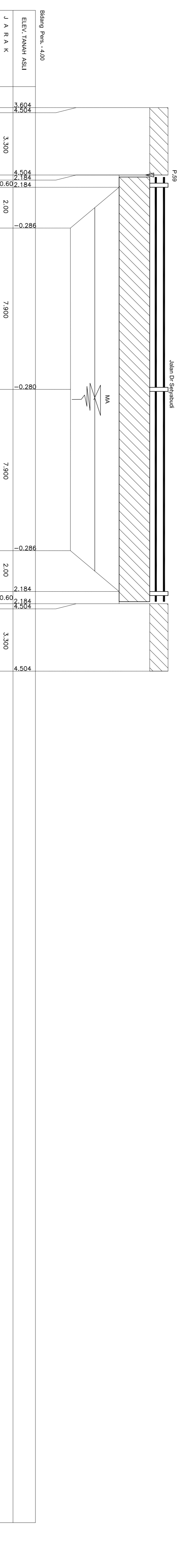
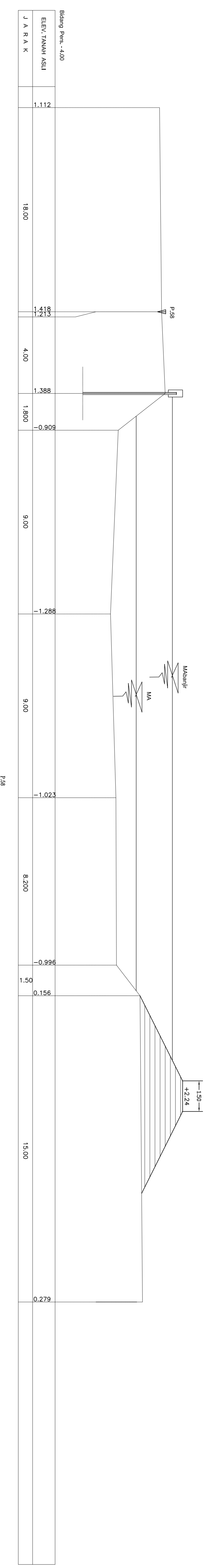
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**PT. SUPRAHARMONIA** Dikembangkan  
**CONSULTINDO**  
 Engineering & Management Consulting

PTIK  
 KALIA SIDA selaku PIK

Road Anggara ST  
 Ir. Bambang Sulaksana, MSCE  
 Tim. 2, Jalan Duki ST 1022  
 Srenggeh, Sukoharjo, Sukoharjo, 57151, Jawa Tengah  
 NIP. 196304171980031005





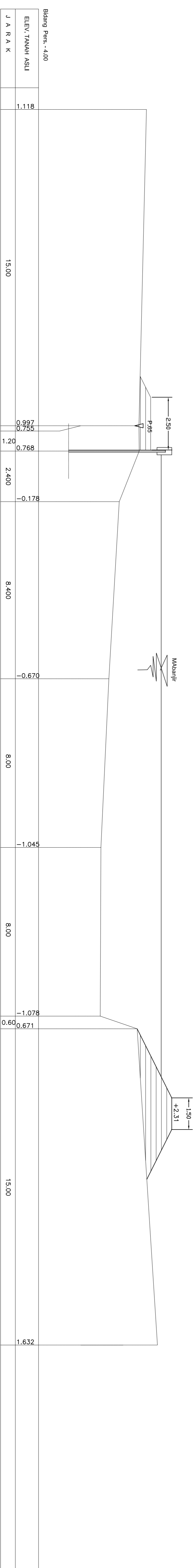
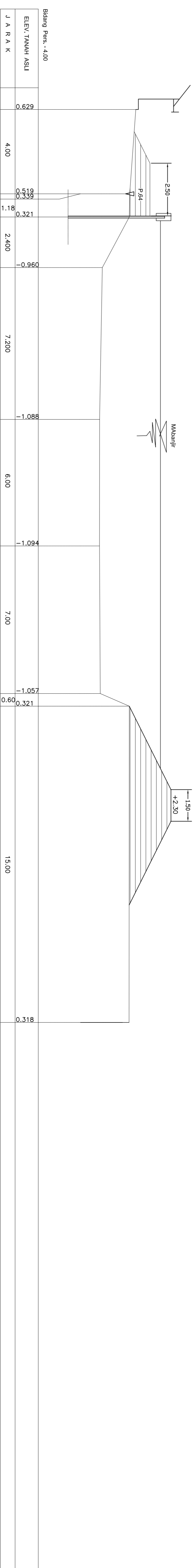
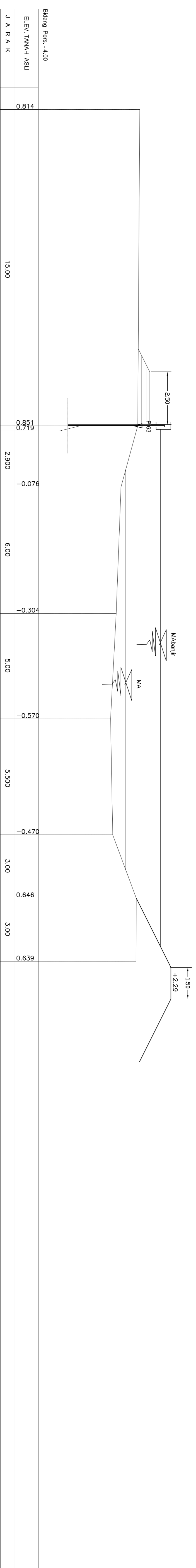
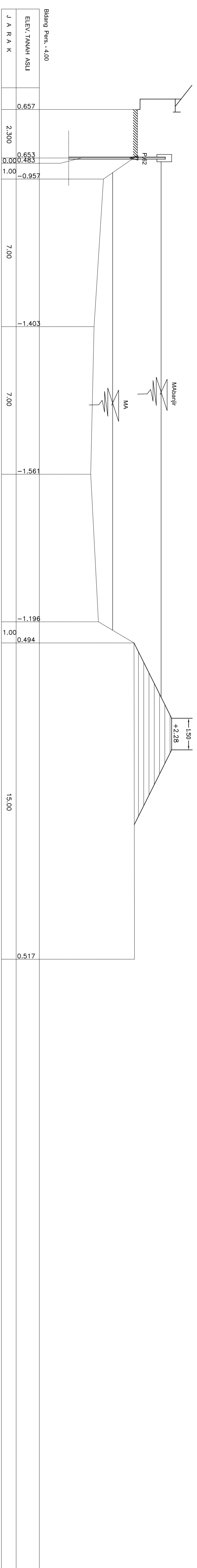
**PEMERINTAH KABUPATEN CILACAP**  
DINAS BINA MARGA SUMBER DAYA AIR  
ENERGI DAN SUMBER DAYA MINERAL  
Jl. Mri Kawoyan No. 107, Cilacap, Jawa Tengah Telp: (0282) 349003

PROVINSI : JAWA TENGAH  
PEKERJAAN : DED KALYASA

GAMBAR : POTONGAN MELINTANG (P58 - P61)

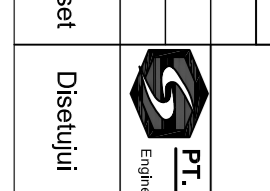
DIDAKIABAR	Rudy Anggara, ST
PT SUPRANARMONIA KONSULTING	TEMA LEBER
PTK	Kediri Road ST
NP: 1560705-199703-1-002	Survei Hidraulik SIP - ST - MA
NP: 19830412-199803-1-005	

no. rev	tgl	yang direvisi	oleh	direnc.	disek	Disebut




**PT. SUPRAHARMONIA**  
 Konsultan Arsitektur & Teknik Sipil  
 JI. MT. Kemuning No. 107, Cikembar, Jawa Tengah Telp. (0282) 249003

**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Kemuning No. 107, Cikembar, Jawa Tengah Telp. (0282) 249003

Disetujui :   
 KARDI SUDA, selaku PPK  
 NIP. 19630412 199803 1 005

NO. REV	UJI	yang direvisi	oleh	ditenc.	diset

PROVINSI :	JAWA TENGAH
KABUPATEN :	CILACAP
NO. REGISTRER :	11 / 25
NO. JUMIL. LBR :	NO. KONTRAK
TANGGAL :	

Bilang Pers. - 4/00  
 ELEV. TANAH ASLI  
 J A R A K

1.118	15.00	0.997	0.755	1.20	2.400	-0.178	8.400	-0.670	8.00	-1.045	8.00	-1.078	0.60	0.671	15.00	1.632
-------	-------	-------	-------	------	-------	--------	-------	--------	------	--------	------	--------	------	-------	-------	-------

Bilang Pers. - 4/00  
 ELEV. TANAH ASLI  
 J A R A K

0.629	4.00	0.997	0.755	1.20	2.400	-0.178	8.400	-0.670	8.00	-1.045	8.00	-1.078	0.60	0.671	15.00	1.632
-------	------	-------	-------	------	-------	--------	-------	--------	------	--------	------	--------	------	-------	-------	-------

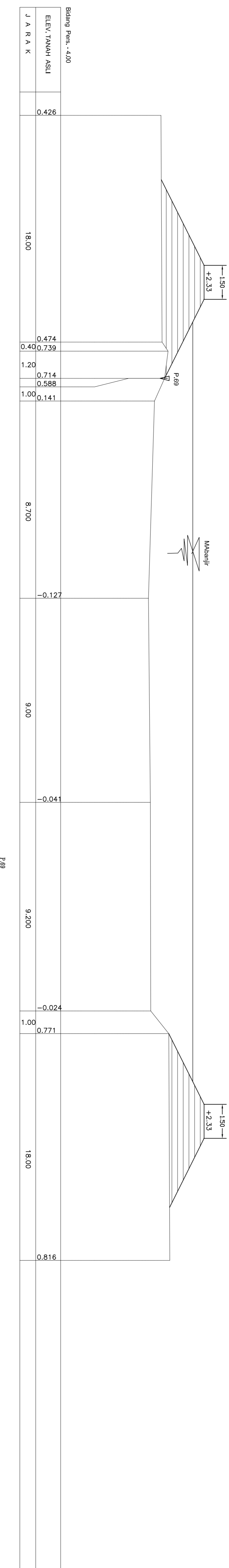
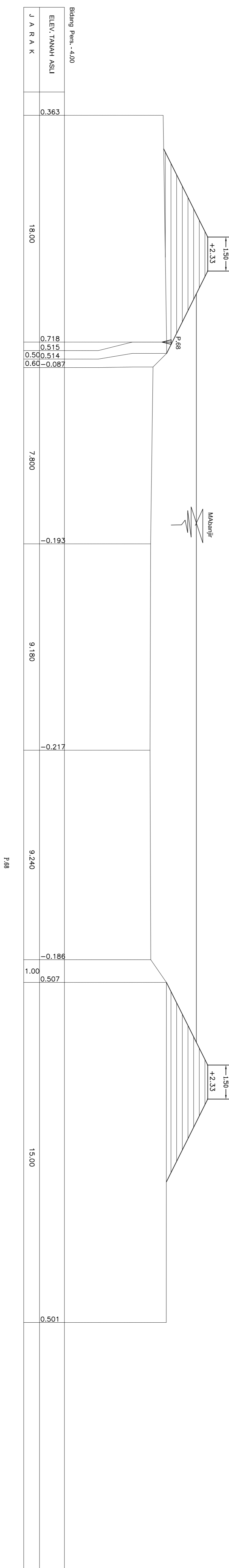
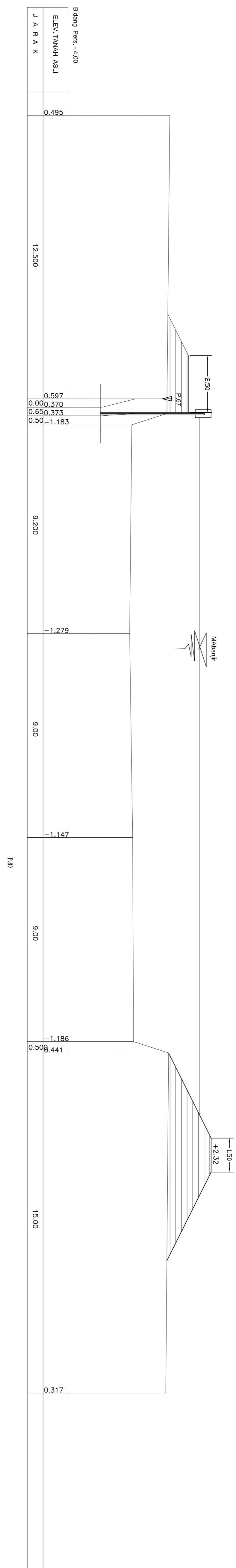
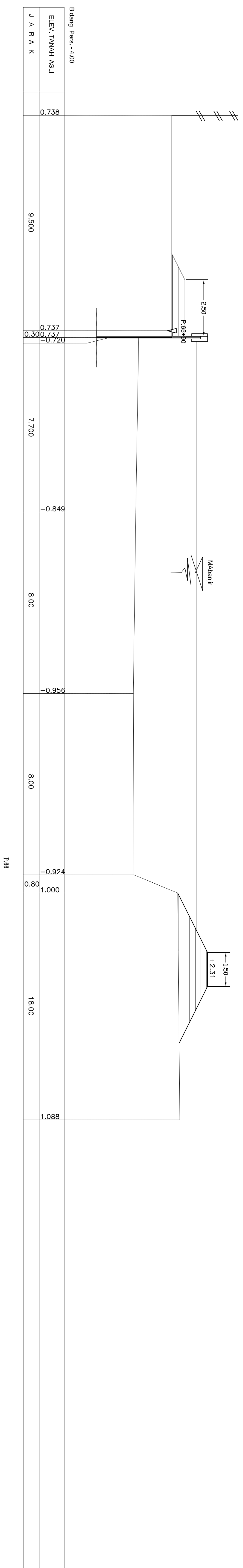
Bilang Pers. - 4/00  
 ELEV. TANAH ASLI  
 J A R A K

0.814	15.00	0.851	0.719	2.900	-0.076	6.00	-0.304	5.00	-0.570	5.500	-0.470	3.00	0.646	3.00	0.639
-------	-------	-------	-------	-------	--------	------	--------	------	--------	-------	--------	------	-------	------	-------

Bilang Pers. - 4/00  
 ELEV. TANAH ASLI  
 J A R A K

0.657	2.300	0.000	0.593	0.000	1.00	-1.403	7.00	-1.561	1.00	-1.196	1.00	0.494	15.00	0.517
-------	-------	-------	-------	-------	------	--------	------	--------	------	--------	------	-------	-------	-------

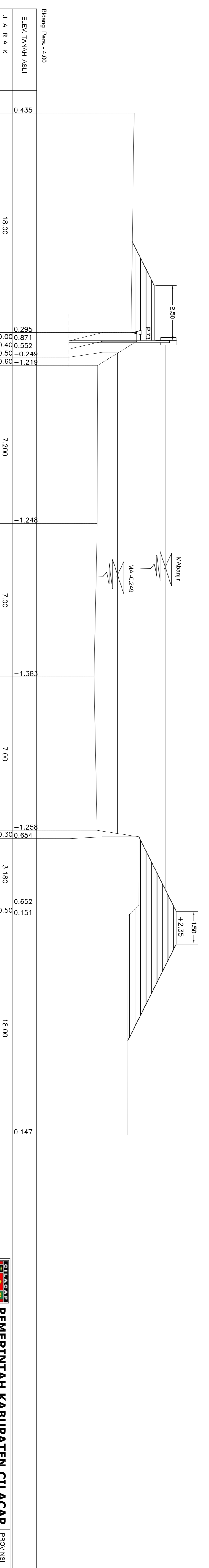
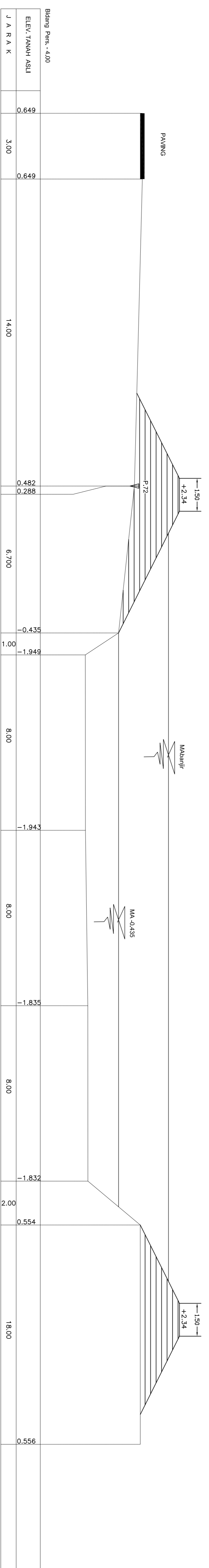
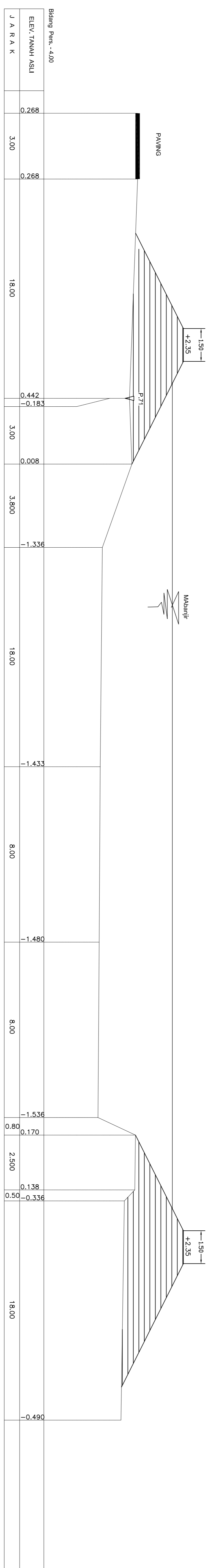
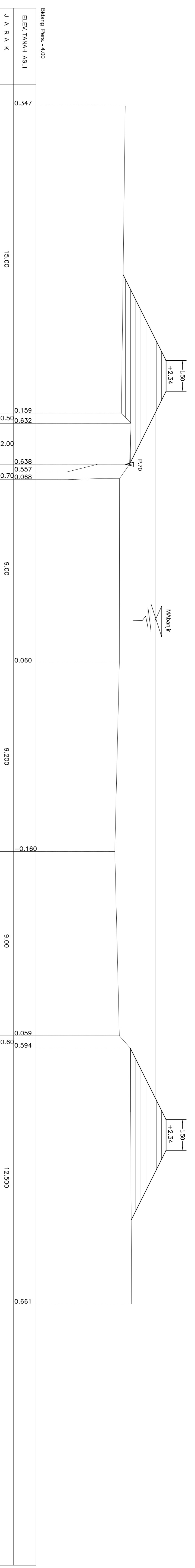
# Pagar



**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. M. Haryono No. 107, Cilacap, Jawa Tengah, Telp. (0292) 249603

no. rev	tgl	yang direvisi	oleh	ditensi	diset	Disebuti

PROVINSI :	JAWA TENGAH
KABUPATEN :	CILACAP
NO. REGISTRER :	12 / 25
NO. JUDIAL. LBR :	NO KONTRAK
TANGGAL :	



**PEMERINTAH KABUPATEN CILOCAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. M. Haryono No. 107, Cilacap, Jawa Tengah Telp. (0825) 349003

PROVINSI : JAWA TENGAH  
 KABUPATEN : CILOCAP  
 NO. REGISTRER : 13 / 25  
 NO. JUMIL. IBR : NO KONTRAK

GAMBAR : POTONGAN MELINTANG (P.70 - P.73)

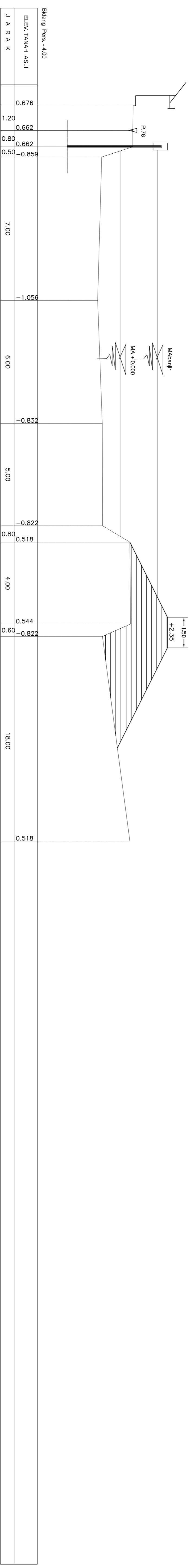
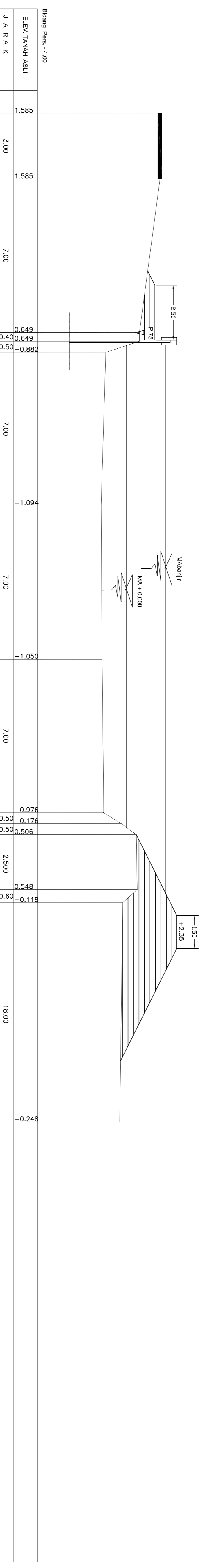
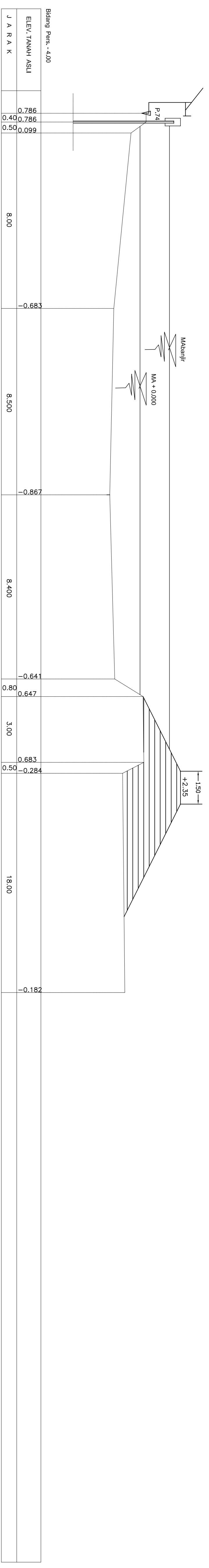
Disetujui	Disetujui	Disetujui
KADIS DAU, selaku PPK	PT. SUPRAHARMONIA KONSULTING	PT. SUPRAHARMONIA KONSULTING
	TEAM LEADER	TEAM LEADER
	H. Bambang Sulitono, MSCE	Rud. Anggrana, ST
	K. Sani Rizki, ST	K. Sani Rizki, ST
	NIP. 1960706 199003 1 002	NIP. 1960706 199003 1 002
	NIP. 1963042 199803 1 005	NIP. 1963042 199803 1 005

yang direvisi

oleh drafte diset

NO. REV

UJI



PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 14 / 25  
 NO. JUMIL. LBR : NO. KONTRAK

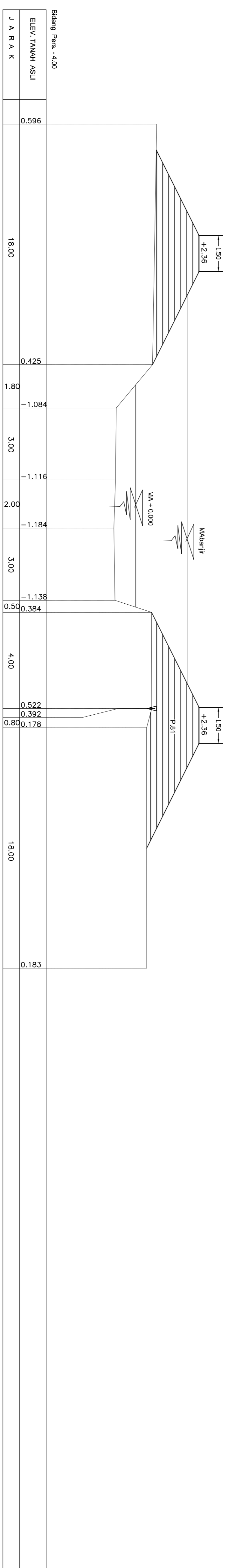
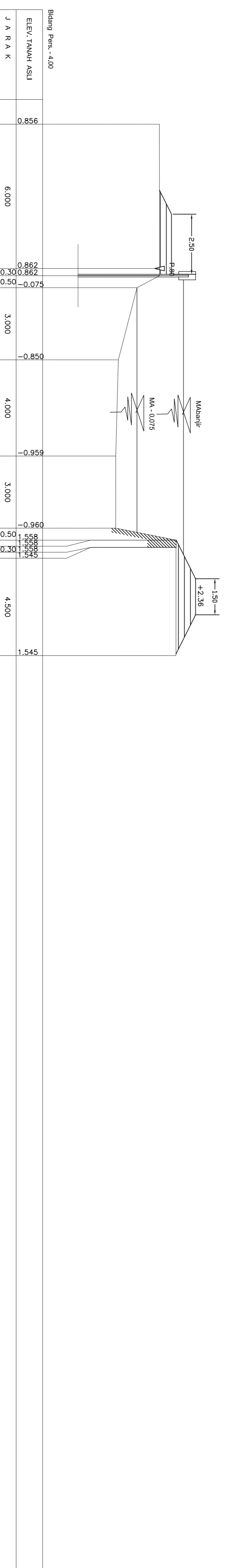
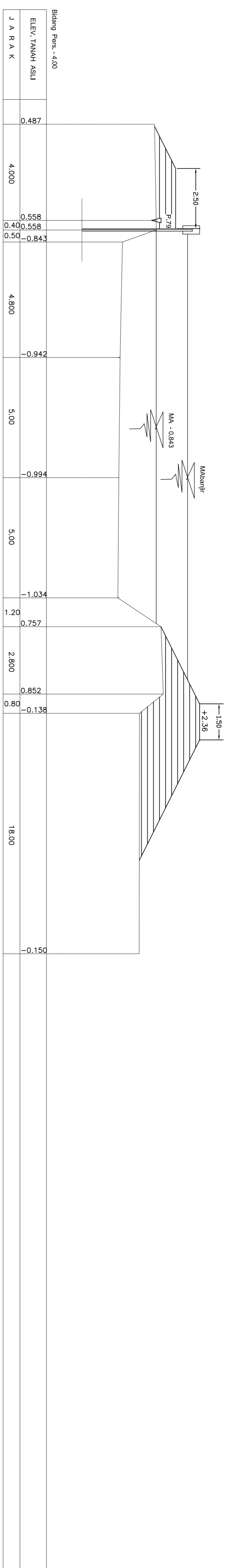
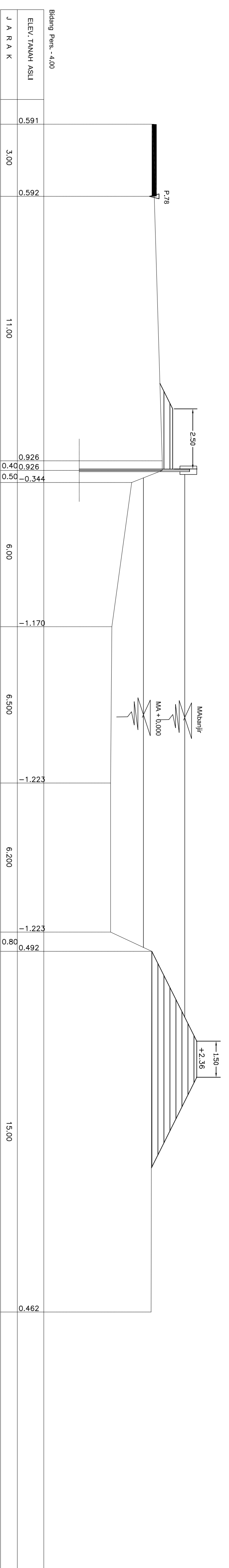
**PEMERINTAH KABUPATEN CILACAP**  
 DINAS BINA MARGA SUMBER DAYA AIR  
 ENERGI DAN SUMBER DAYA MINERAL  
 Jl. M.H. Thamrin No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349003

GAMBAR : POTONGAN MELINTANG (P.74 - P.77)

Disetujui	Diketahui		
KARDI SUDA, selaku PRK	PT. SUPRANARMONIA KONSULTING	TEAMI LEBER	Rudy Anggrana, ST
	PRK		
	TNP. 1560705/1997/03/1/002		
	Sandi Minimal SIP. ST. MA		
	NIP. 19630412 199803 1 005		

no. rev	tgl	yang direvisi	oleh	dicorek	diset





Bidang Pns. - 4.00	ELEV. TANAH ASLI	J A R A K
	0,596	18,00
	0,425	1,80
	-1,084	3,00
	-1,116	2,00
	-1,184	3,00
	-1,138	0,50
	0,384	4,00
	0,522	0,50
	0,392	0,80
	0,178	0,80
	0,183	18,00

no. rev	tgl	yang direvisi	oleh	ditenc.	diset	Disebuti

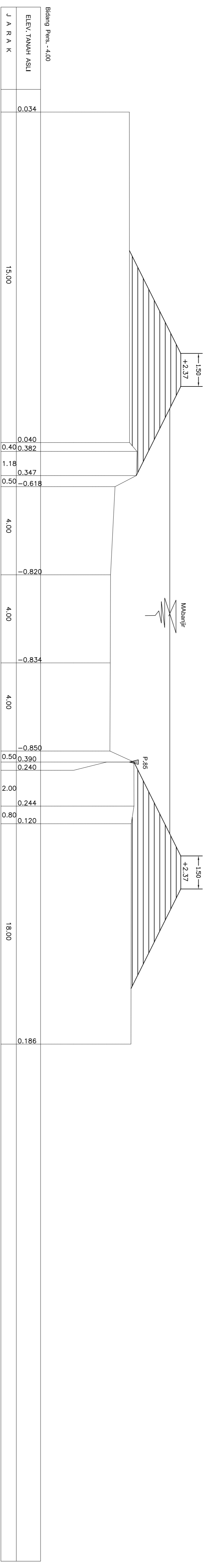
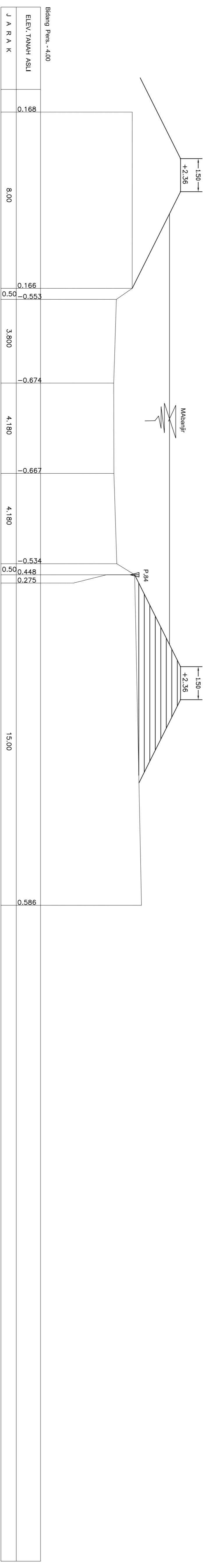
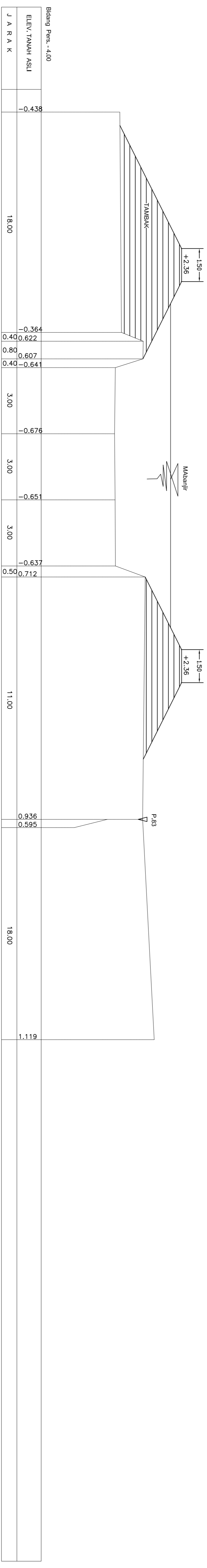
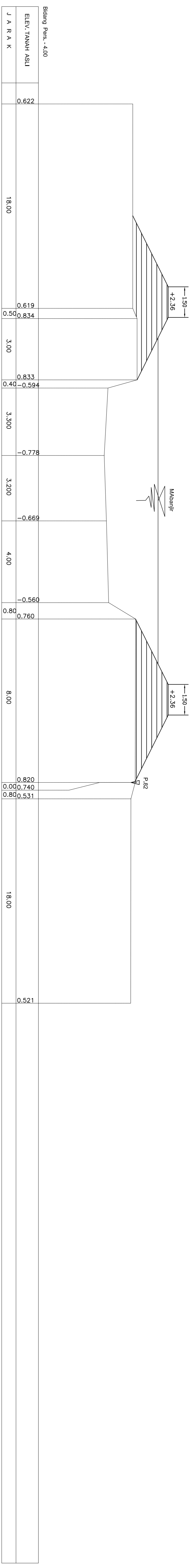
**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. M. Hidayat No. 107, Cilacap, Jawa Tengah, Telp. (0282) 349003

PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 15 / 25  
 NO. JUMIL. LBR : NO KONTRAK

GAMBAR : POTONGAN MELINTANG (P.78 - P.81)

Disetujui : **PT. SUPRAHARMONIA KONSULTINDO**  
 Disiapkan oleh : **TEAM LEADER**  
 Disetujui : **KARDI SUDA, S.T., M.M.**

Disetujui : **PT. SUPRAHARMONIA KONSULTINDO**  
 Disiapkan oleh : **TEAM LEADER**  
 Disetujui : **KARDI SUDA, S.T., M.M.**

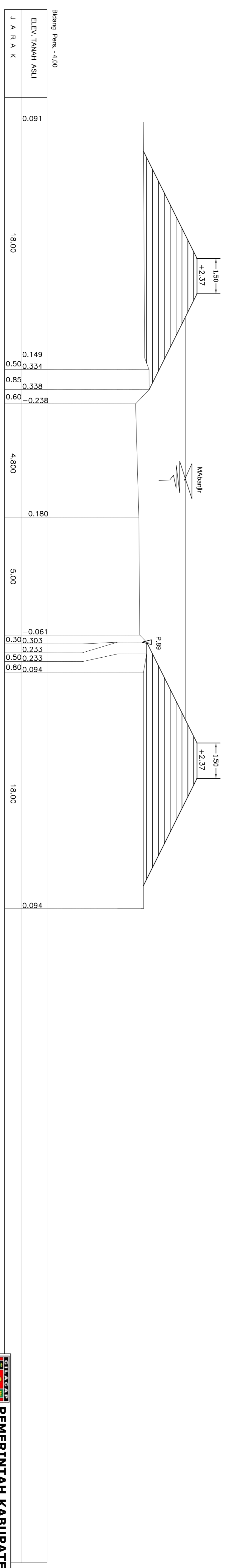
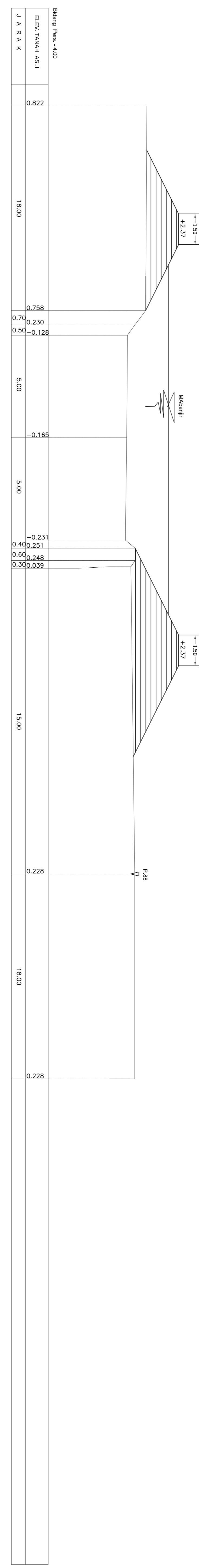
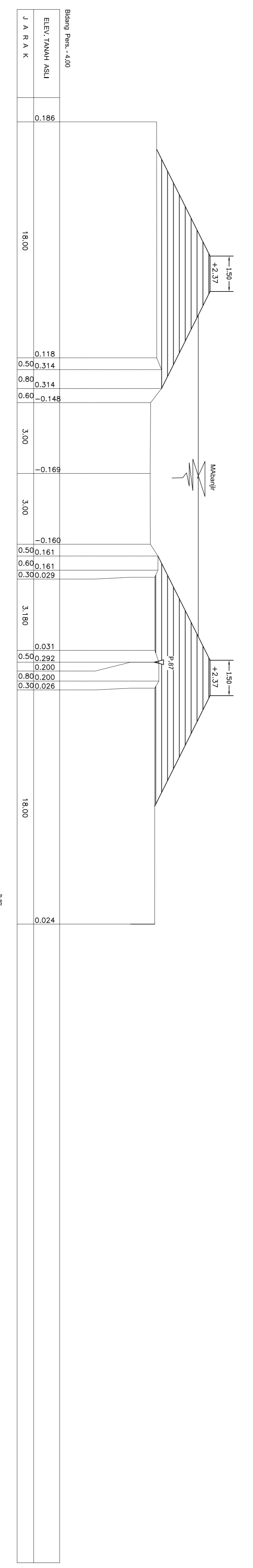
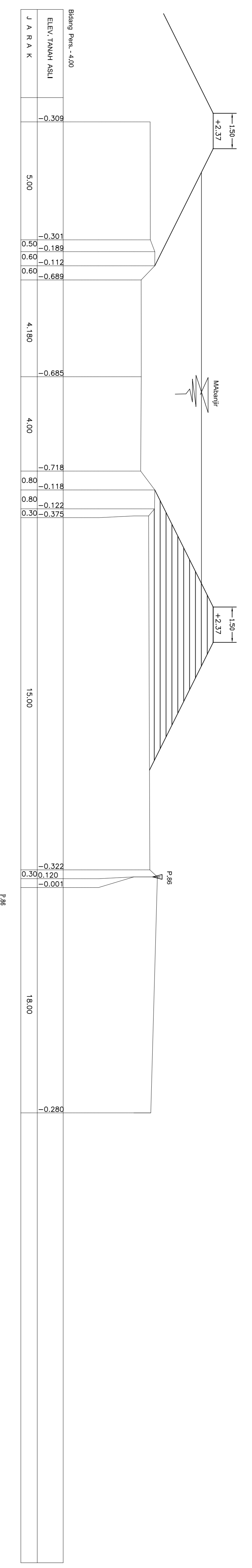




**PT. SUPRANARMONIA KONSULTING ENGINEERING & CONSULTING**  
 PT. SUPRANARMONIA KONSULTING ENGINEERING & CONSULTING  
 Jln. Mt. Kemuning No. 107, Cikembar, Jawa Tengah Telp. (0282) 349003

**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Kemuning No. 107, Cikembar, Jawa Tengah Telp. (0282) 349003

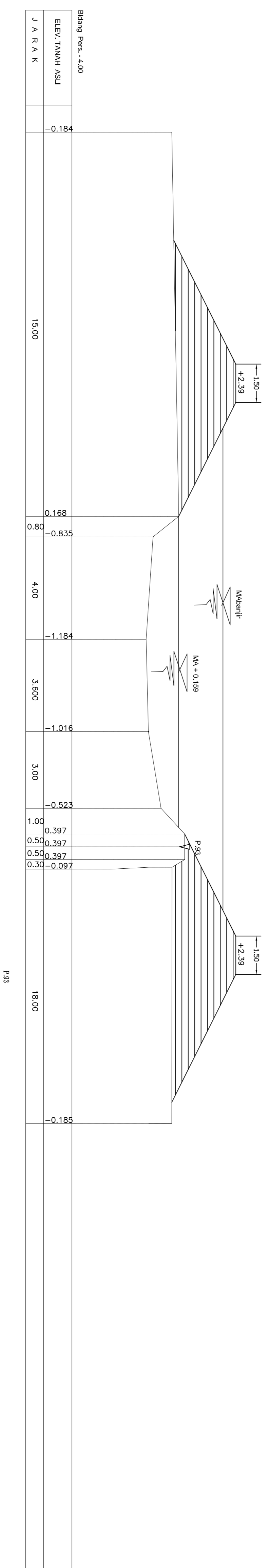
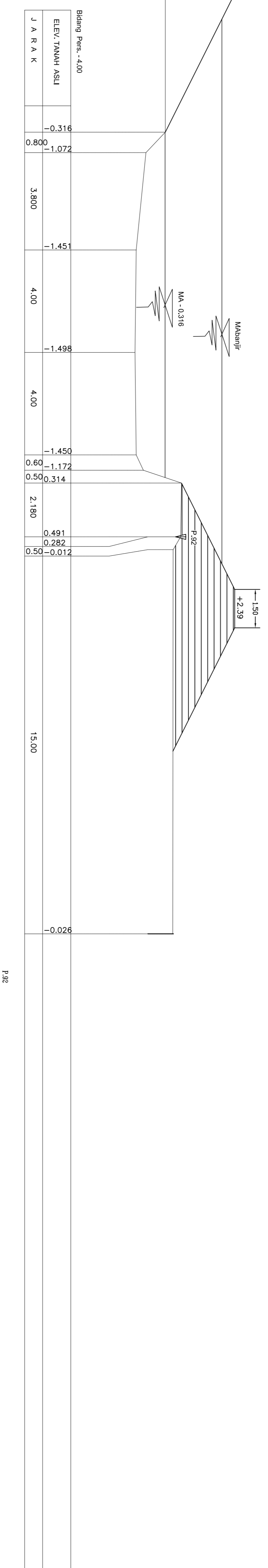
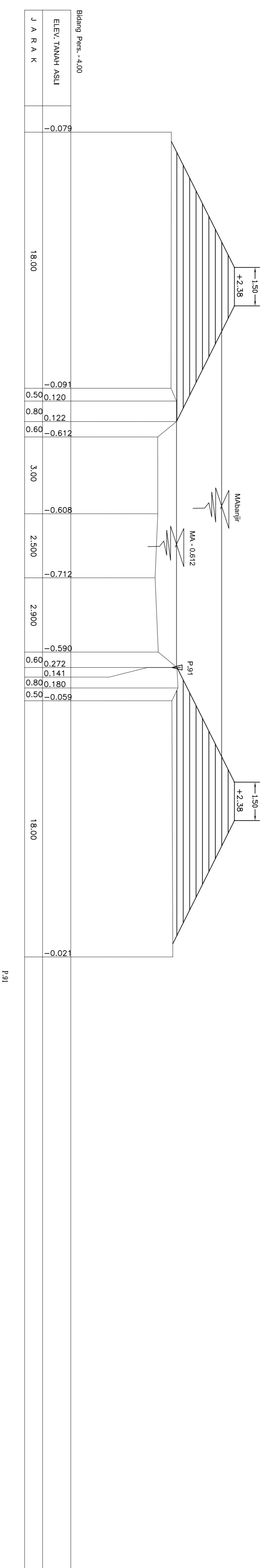
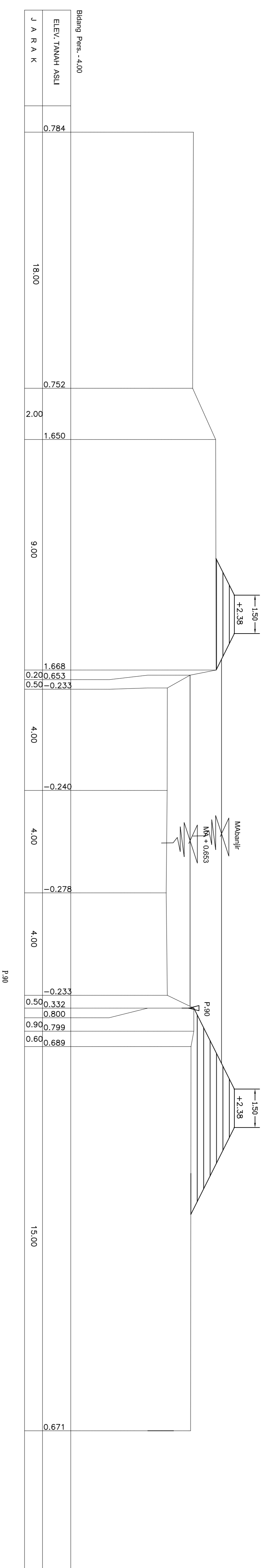
PROVINSI : JAWA TENGAH  
 KABUPATEN : CILACAP  
 NO. REGISTRER : 16 / 25  
 NO. JUMIL. LBR : NO. KONTRAK

NO. REV	UJI	yang direvisi	oleh	ditenc.	diset	Disetujui



 <b>PT SUPRAHARMONIA KONSULTINDO</b> Insinyeri & Konsultansi		<b>PEMERINTAH KABUPATEN CILACAP</b> DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL Jl. Mt. Kemuning No. 107, Cilacap, Jawa Tengah Telp. (0282) 349003		PROVINSI : <b>JAWA TENGAH</b> KABUPATEN : <b>CILACAP</b> NO. REGISTRER : <b>17 / 25</b> NO. JUMIL. LBR : <b>NO KONTRAK</b>
Disetujui KARDI SUDA, selaku PPK	Disetujui Rudi Anggana, ST Kepala Bidang S2 NIP. 19630412 199803 1 005	Disetujui Rudi Anggana, ST Kepala Bidang S2 NIP. 19630412 199803 1 005	Disetujui Rudi Anggana, ST Kepala Bidang S2 NIP. 19630412 199803 1 005	
GAMBAR : <b>POTONGAN MELINTANG (P.86 - P.89)</b>	oleh : <b>yang direvisi</b>	oleh : <b>yang direvisi</b>	oleh : <b>yang direvisi</b>	
NO. REV : <b>1</b>	UJI : <b>1</b>	UJI : <b>1</b>	UJI : <b>1</b>	





**PEMERINTAH KABUPATEN CILACAP**  
DINAS BINA MARGA SUMBER DAYA AIR  
ENERGI DAN SUMBER DAYA MINERAL  
Jl. M.H. Thamrin No. 107, Cilacap, Jawa Tengah Telp. (0282) 249803

PROVINSI : JAWA TENGAH  
KABUPATEN : CILACAP  
NO. REGISTRER :  
NO. JUDIAL IBR : 18 / 25  
TANGGAL : NO KONTRAK

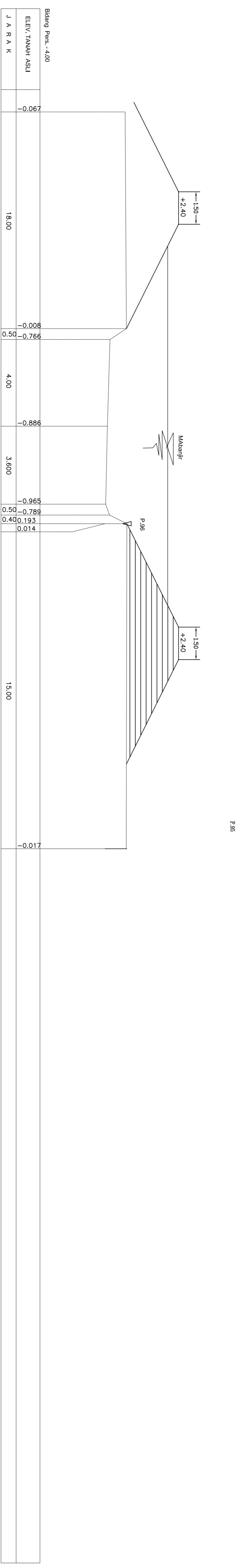
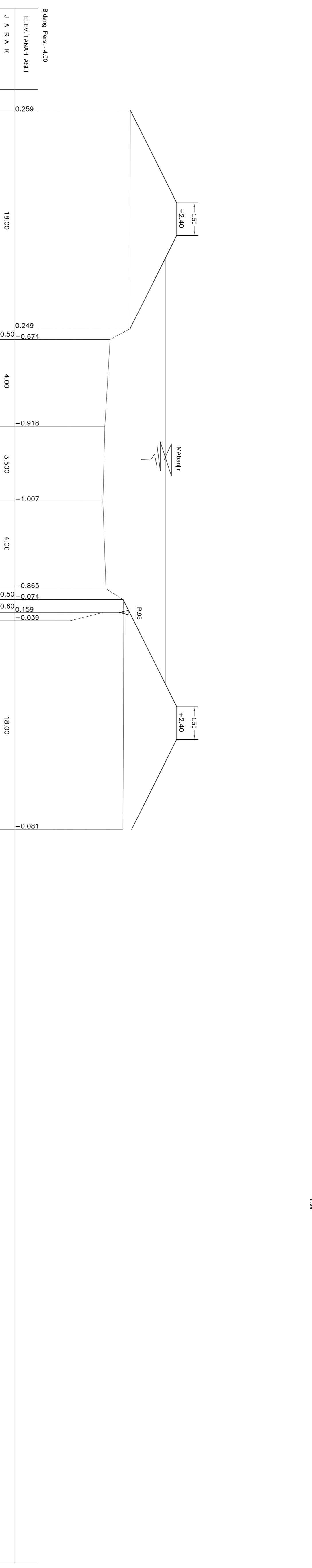
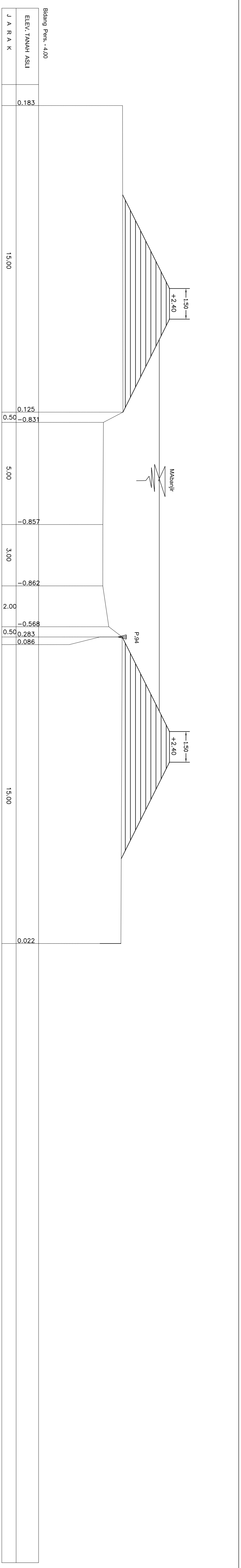
POTONGAN MELINTANG (P.90 - P.93)

KABUPATEN : CILACAP  
NO. REGISTRER :  
NO. JUDIAL IBR : 18 / 25  
TANGGAL : NO KONTRAK

**PT. SUPRANARMONIA**  
KONSULTING ENGINEERING & CONSTRUCTION  
PT. SUPRANARMONIA KONSULTING ENGINEERING & CONSTRUCTION  
Jl. Raya Siliwangi No. 107, Bandung, Jawa Barat Telp. (021) 25000000  
NIP. 19630412 199803 1 005

PROVINSI : JAWA TENGAH  
KABUPATEN : CILACAP  
NO. REGISTRER :  
NO. JUDIAL IBR : 18 / 25  
TANGGAL : NO KONTRAK

No. Rev	Uj	yang direvisi	oleh	ditenc.	diset



**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. Mt. Kemuning No. 107, Cilacap, Jawa Tengah, Telp. (0282) 249803

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DBO KALIVASA

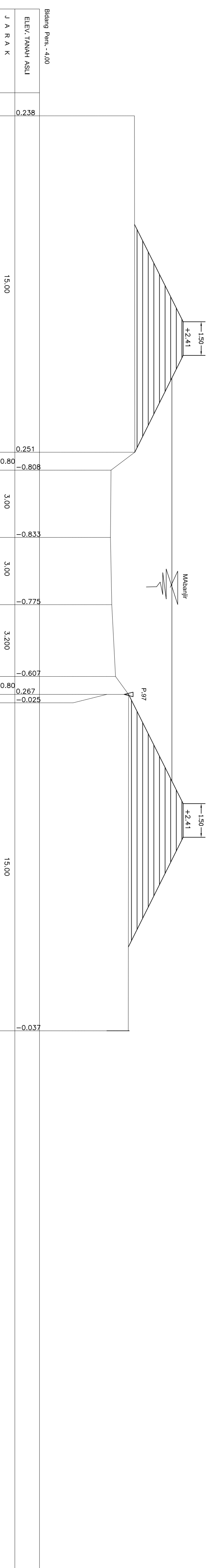
GAMBAR : POTONGAN MELINTANG (P.94 - P.96)

KABUPATEN : CILACAP

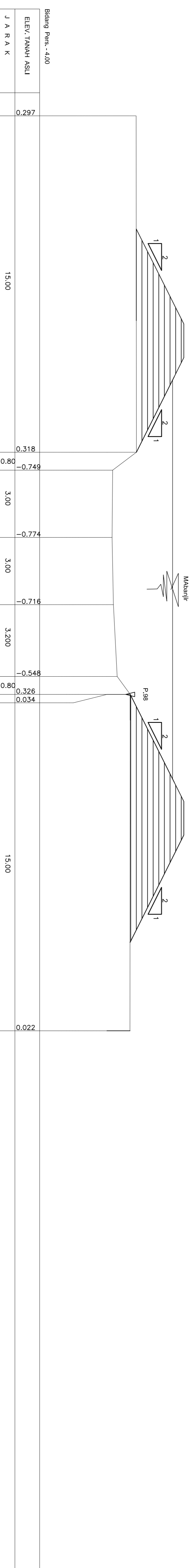
NO. REGISTRER : 19 / 25

NO. JUMIL. LBR : NO KONTRAK

no. rev	tgl	yang direvisi	oleh	dicoreksi	diset	Disetujui	KADIS DAU, Kepala BPDK
						PT. SUPRANARMONIA KONSULTING	
						Diketahui TEMA LEBER	
						Rudy Anggara, ST	
						K. Bambang Sulaksana, MSCE	
						PRK K. Hadi Dwi Satrio, ST	
						NIP. 1960706 199703 1 002	
						Sahadi Harahap, SIP, ST, MM	
						NIP. 19630412 199603 1 005	



P.97



P.98

**PEMERINTAH KABUPATEN CILACAP**  
**DINAS BINA MARGA SUMBER DAYA AIR**  
**ENERGI DAN SUMBER DAYA MINERAL**  
 Jl. M. Haryono No. 57, Cilacap, Jawa Tengah Telp. (0282) 349003

PROVINSI : JAWA TENGAH  
 PEKERJAAN : DED KALIVASA

GAMBAR :

POTONGAN MELINTANG (P.97 - P.98)

KABUPATEN : CILACAP  
 NO. REGISTER :  
 NO. JUDUL LBR : 20 / 25  
 TANGGAL : NO KONTRAK

no. rev	tgl	yang direvisi	oleh	ditenc.	diset	Disetujui	Diketahui
						KARDI SUDA, Kepala PPK	Rudy Anggrana, ST K. Bani Dandi, ST NIP. 1960706 199003 1 002 NIP. 19630412 199803 1 005

**PT. SUPRANARMONIA**  
 Konsultindo  
 PT. SUPRANARMONIA  
 Konsultindo  
 PT. SUPRANARMONIA  
 Konsultindo  
 PT. SUPRANARMONIA  
 Konsultindo

**LAMPIRAN C**  
**DATA CURAH HUJAN**  
**STASIUN SAMPANG**  
**TAHUN 1981 – 1991**

























**LAMPIRAN D**  
**DATA TABEL PASANG**  
**SURUT SUNGAI KALI**  
**YASA TAHUN 2015**



Tabel Pasang Surut Sungai Kali Yasa

Jam	TMA (cm)	TMA (cm)	Elevasi (m)
8/7/2015 19:00			-2.635
8/7/2015 20:00	58	-22	-0.22
8/7/2015 21:00	80	0	0
8/7/2015 22:00	140	60	0.6
8/7/2015 23:00	150	70	0.7
8/8/2015 0:00	198	118	1.18
8/8/2015 1:00	210	130	1.3
8/8/2015 2:00	200	120	1.2
8/8/2015 3:00	180	100	1
8/8/2015 4:00	160	80	0.8
8/8/2015 5:00	120	40	0.4
8/8/2015 6:00	110	30	0.3
8/8/2015 7:00	93	13	0.13
8/8/2015 8:00	100	20	0.2
8/8/2015 9:00	115	35	0.35
8/8/2015 10:00	119	39	0.39
8/8/2015 11:00	125	45	0.45
8/8/2015 12:00	148	68	0.68
8/8/2015 13:00	160	80	0.8
8/8/2015 14:00	185	105	1.05
8/8/2015 15:00	160	80	0.8
8/8/2015 16:00	135	55	0.55
8/8/2015 17:00	110	30	0.3
8/8/2015 18:00	96	16	0.16
8/8/2015 19:00	100	20	0.2
8/8/2015 20:00	110	30	0.3
8/8/2015 21:00	120	40	0.4
8/8/2015 22:00	135	55	0.55
8/8/2015 23:00	155	75	0.75
8/9/2015 0:00	190	110	1.1
8/9/2015 1:00	230	150	1.5
8/9/2015 2:00	200	120	1.2
8/9/2015 3:00	170	90	0.9
8/9/2015 4:00	150	70	0.7
8/9/2015 5:00	130	50	0.5
8/9/2015 6:00	110	30	0.3
8/9/2015 7:00	130	50	0.5
8/9/2015 8:00	110	30	0.3
8/9/2015 9:00	98	18	0.18
8/9/2015 10:00	90	10	0.1

8/9/2015 11:00	105	25	0.25
8/9/2015 12:00	120	40	0.4
8/9/2015 13:00	125	45	0.45
8/9/2015 14:00	130	50	0.5
8/9/2015 15:00	140	60	0.6
8/9/2015 16:00	149	69	0.69
8/9/2015 17:00	140	60	0.6
8/9/2015 18:00	128	48	0.48
8/9/2015 19:00	105	25	0.25
8/9/2015 20:00	103	23	0.23
8/9/2015 21:00	102	22	0.22
8/9/2015 22:00	104	24	0.24
8/9/2015 23:00	100	20	0.2
8/10/2015 0:00	130	50	0.5
8/10/2015 1:00	155	75	0.75
8/10/2015 2:00	160	80	0.8
8/10/2015 3:00	175	95	0.95
8/10/2015 4:00	180	100	1
8/10/2015 5:00	185	105	1.05
8/10/2015 6:00	175	95	0.95
8/10/2015 7:00	110	30	0.3
8/10/2015 8:00	100	20	0.2
8/10/2015 9:00	98	18	0.18
8/10/2015 10:00	90	10	0.1
8/10/2015 11:00	89	9	0.09
8/10/2015 12:00	105	25	0.25
8/10/2015 13:00	115	35	0.35
8/10/2015 14:00	120	40	0.4
8/10/2015 15:00	130	50	0.5
8/10/2015 16:00	135	55	0.55
8/10/2015 17:00	140	60	0.6
8/10/2015 18:00	145	65	0.65
8/10/2015 19:00	130	50	0.5
8/10/2015 20:00	126	46	0.46
8/10/2015 21:00	118	38	0.38
8/10/2015 22:00	110	30	0.3
8/10/2015 23:00	108	28	0.28
8/11/2015 0:00	120	40	0.4
8/11/2015 1:00	145	65	0.65
8/11/2015 2:00	152	72	0.72
8/11/2015 3:00	160	80	0.8
8/11/2015 4:00	168	88	0.88

8/11/2015 5:00	175	95	0.95
8/11/2015 6:00	187	107	1.07
8/11/2015 7:00	180	100	1
8/11/2015 8:00	148	68	0.68
8/11/2015 9:00	132	52	0.52
8/11/2015 10:00	115	35	0.35
8/11/2015 11:00	95	15	0.15
8/11/2015 12:00	90	10	0.1
8/11/2015 13:00	89	9	0.09
8/11/2015 14:00	102	22	0.22
8/11/2015 15:00	105	25	0.25
8/11/2015 16:00	125	45	0.45
8/11/2015 17:00	138	58	0.58
8/11/2015 18:00	142	62	0.62
8/11/2015 19:00	145	65	0.65
8/11/2015 20:00	146	66	0.66
8/11/2015 21:00	120	40	0.4
8/11/2015 22:00	118	38	0.38
8/11/2015 23:00	105	25	0.25
8/12/2015 0:00	104	24	0.24
8/12/2015 1:00	110	30	0.3
8/12/2015 2:00	120	40	0.4
8/12/2015 3:00	145	65	0.65
8/12/2015 4:00	170	90	0.9
8/12/2015 5:00	185	105	1.05
8/12/2015 6:00	195	115	1.15
8/12/2015 7:00	184	104	1.04
8/12/2015 8:00	170	90	0.9
8/12/2015 9:00	155	75	0.75
8/12/2015 10:00	128	48	0.48
8/12/2015 11:00	98	18	0.18
8/12/2015 12:00	90	10	0.1
8/12/2015 13:00	94	14	0.14
8/12/2015 14:00	88	8	0.08
8/12/2015 15:00	70	-10	-0.1
8/12/2015 16:00	125	45	0.45
8/12/2015 17:00	130	50	0.5
8/12/2015 18:00	148	68	0.68
8/12/2015 19:00	150	70	0.7
8/12/2015 20:00	149	69	0.69
8/12/2015 21:00	130	50	0.5
8/12/2015 22:00	125	45	0.45

8/12/2015 23:00	110	30	0.3
8/13/2015 0:00	105	25	0.25
8/13/2015 1:00	115	35	0.35
8/13/2015 2:00	120	40	0.4
8/13/2015 3:00	135	55	0.55
8/13/2015 4:00	145	65	0.65
8/13/2015 5:00	150	70	0.7
8/13/2015 6:00	155	75	0.75
8/13/2015 7:00	190	110	1.1
8/13/2015 8:00	180	100	1
8/13/2015 9:00	165	85	0.85
8/13/2015 10:00	140	60	0.6
8/13/2015 11:00	125	45	0.45
8/13/2015 12:00	110	30	0.3
8/13/2015 13:00	70	-10	-0.1
8/13/2015 14:00	60	-20	-0.2
8/13/2015 15:00	55	-25	-0.25
8/13/2015 16:00	80	0	0
8/13/2015 17:00	85	5	0.05
8/13/2015 18:00	130	50	0.5
8/13/2015 19:00	155	75	0.75
8/13/2015 20:00	165	85	0.85
8/13/2015 21:00	160	80	0.8
8/13/2015 22:00	148	68	0.68
8/13/2015 23:00	135	55	0.55
8/14/2015 0:00	105	25	0.25
8/14/2015 1:00	90	10	0.1
8/14/2015 2:00	95	15	0.15
8/14/2015 3:00	100	20	0.2
8/14/2015 4:00	120	40	0.4
8/14/2015 5:00	148	68	0.68
8/14/2015 6:00	178	98	0.98
8/14/2015 7:00	200	120	1.2
8/14/2015 8:00	190	110	1.1
8/14/2015 9:00	180	100	1
8/14/2015 10:00	150	70	0.7
8/14/2015 11:00	130	50	0.5
8/14/2015 12:00	100	20	0.2
8/14/2015 13:00	70	-10	-0.1
8/14/2015 14:00	65	-15	-0.15
8/14/2015 15:00	60	-20	-0.2
8/14/2015 16:00	85	5	0.05

8/14/2015 17:00	100	20	0.2
8/14/2015 18:00	125	45	0.45
8/14/2015 19:00	140	60	0.6
8/14/2015 20:00	155	75	0.75
8/14/2015 21:00	168	88	0.88
8/14/2015 22:00	150	70	0.7
8/14/2015 23:00	140	60	0.6
8/15/2015 0:00	110	30	0.3
8/15/2015 1:00	98	18	0.18
8/15/2015 2:00	100	20	0.2
8/15/2015 3:00	110	30	0.3
8/15/2015 4:00	120	40	0.4
8/15/2015 5:00	135	55	0.55
8/15/2015 6:00	160	80	0.8
8/15/2015 7:00	185	105	1.05
8/15/2015 8:00	195	115	1.15
8/15/2015 9:00	205	125	1.25
8/15/2015 10:00	190	110	1.1
8/15/2015 11:00	145	65	0.65
8/15/2015 12:00	112	32	0.32
8/15/2015 13:00	94	14	0.14
8/15/2015 14:00	53	-27	-0.27
8/15/2015 15:00	48	-32	-0.32
8/15/2015 16:00	52	-28	-0.28
8/15/2015 17:00	75	-5	-0.05
8/15/2015 18:00	115	35	0.35
8/15/2015 19:00	125	45	0.45
8/15/2015 20:00	150	70	0.7
8/15/2015 21:00	175	95	0.95
8/15/2015 22:00	180	100	1
8/15/2015 23:00	165	85	0.85
8/16/2015 0:00	145	65	0.65
8/16/2015 1:00	120	40	0.4
8/16/2015 2:00	80	0	0
8/16/2015 3:00	75	-5	-0.05
8/16/2015 4:00	60	-20	-0.2
8/16/2015 5:00	95	15	0.15
8/16/2015 6:00	130	50	0.5
8/16/2015 7:00	185	105	1.05
8/16/2015 8:00	198	118	1.18
8/16/2015 9:00	200	120	1.2
8/16/2015 10:00	180	100	1

8/16/2015 11:00	130	50	0.5
8/16/2015 12:00	100	20	0.2
8/16/2015 13:00		-80	-0.8
8/16/2015 14:00	64	-16	-0.16
8/16/2015 15:00	55	-25	-0.25
8/16/2015 16:00	68	-12	-0.12
8/16/2015 17:00	75	-5	-0.05
8/16/2015 18:00	105	25	0.25
8/16/2015 19:00	110	30	0.3
8/16/2015 20:00	125	45	0.45
8/16/2015 21:00	160	80	0.8
8/16/2015 22:00	185	105	1.05
8/16/2015 23:00	200	120	1.2
8/17/2015 0:00	180	100	1
8/17/2015 1:00	150	70	0.7
8/17/2015 2:00	100	20	0.2
8/17/2015 3:00	80	0	0
8/17/2015 4:00	70	-10	-0.1
8/17/2015 5:00	90	10	0.1
8/17/2015 6:00	120	40	0.4
8/17/2015 7:00	130	50	0.5
8/17/2015 8:00	180	100	1
8/17/2015 9:00	195	115	1.15
8/17/2015 10:00	200	120	1.2
8/17/2015 11:00	195	115	1.15
8/17/2015 12:00	160	80	0.8
8/17/2015 13:00	130	50	0.5
8/17/2015 14:00	85	5	0.05
8/17/2015 15:00	50	-30	-0.3
8/17/2015 16:00	45	-35	-0.35
8/17/2015 17:00	60	-20	-0.2
8/17/2015 18:00	80	0	0
8/17/2015 19:00	110	30	0.3
8/17/2015 20:00	150	70	0.7
8/17/2015 21:00	170	90	0.9
8/17/2015 22:00	175	95	0.95
8/17/2015 23:00	182	102	1.02
8/18/2015 0:00	157	77	0.77
8/18/2015 1:00	125	45	0.45
8/18/2015 2:00	95	15	0.15
8/18/2015 3:00	55	-25	-0.25
8/18/2015 4:00	110	30	0.3

8/18/2015 5:00	55	-25	-0.25
8/18/2015 6:00	93	13	0.13
8/18/2015 7:00	120	40	0.4
8/18/2015 8:00	150	70	0.7
8/18/2015 9:00	180	100	1
8/18/2015 10:00	205	125	1.25
8/18/2015 11:00	230	150	1.5
8/18/2015 12:00	215	135	1.35
8/18/2015 13:00	200	120	1.2
8/18/2015 14:00	85	5	0.05
8/18/2015 15:00	60	-20	-0.2
8/18/2015 16:00	50	-30	-0.3
8/18/2015 17:00	45	-35	-0.35
8/18/2015 18:00	40	-40	-0.4
8/18/2015 19:00	80	0	0
8/18/2015 20:00	95	15	0.15
8/18/2015 21:00	155	75	0.75
8/18/2015 22:00	160	80	0.8
8/18/2015 23:00	175	95	0.95
8/19/2015 0:00	160	80	0.8
8/19/2015 1:00	130	50	0.5
8/19/2015 2:00	110	30	0.3
8/19/2015 3:00	90	10	0.1
8/19/2015 4:00	80	0	0
8/19/2015 5:00	75	-5	-0.05
8/19/2015 6:00	60	-20	-0.2
8/19/2015 7:00	123	43	0.43
8/19/2015 8:00	140	60	0.6
8/19/2015 9:00	178	98	0.98
8/19/2015 10:00	186	106	1.06
8/19/2015 11:00	193	113	1.13
8/19/2015 12:00	184	104	1.04
8/19/2015 13:00	110	30	0.3
8/19/2015 14:00	105	25	0.25
8/19/2015 15:00	89	9	0.09
8/19/2015 16:00	60	-20	-0.2
8/19/2015 17:00	53	-27	-0.27
8/19/2015 18:00	82	2	0.02
8/19/2015 19:00	95	15	0.15
8/19/2015 20:00	120	40	0.4
8/19/2015 21:00	165	85	0.85
8/19/2015 22:00	190	110	1.1

8/19/2015 23:00	205	125	1.25
8/20/2015 0:00	170	90	0.9
8/20/2015 1:00	150	70	0.7
8/20/2015 2:00	130	50	0.5
8/20/2015 3:00	100	20	0.2
8/20/2015 4:00	80	0	0
8/20/2015 5:00	75	-5	-0.05
8/20/2015 6:00	65	-15	-0.15
8/20/2015 7:00	140	60	0.6
8/20/2015 8:00	155	75	0.75
8/20/2015 9:00	170	90	0.9
8/20/2015 10:00	180	100	1
8/20/2015 11:00	195	115	1.15
8/20/2015 12:00	188	108	1.08
8/20/2015 13:00	160	80	0.8
8/20/2015 14:00	145	65	0.65
8/20/2015 15:00	120	40	0.4
8/20/2015 16:00	68	-12	-0.12
8/20/2015 17:00	40	-40	-0.4
8/20/2015 18:00	60	-20	-0.2
8/20/2015 19:00	85	5	0.05
8/20/2015 20:00	100	20	0.2
8/20/2015 21:00	125	45	0.45
8/20/2015 22:00	150	70	0.7
8/20/2015 23:00	170	90	0.9
8/21/2015 0:00	215	135	1.35
8/21/2015 1:00	200	120	1.2
8/21/2015 2:00	175	95	0.95
8/21/2015 3:00	130	50	0.5
8/21/2015 4:00	100	20	0.2
8/21/2015 5:00	80	0	0
8/21/2015 6:00	60	-20	-0.2
8/21/2015 7:00	40	-40	-0.4
8/21/2015 8:00	70	-10	-0.1
8/21/2015 9:00	140	60	0.6
8/21/2015 10:00	150	70	0.7
8/21/2015 11:00	170	90	0.9
8/21/2015 12:00	180	100	1
8/21/2015 13:00	195	115	1.15
8/21/2015 14:00	150	70	0.7
8/21/2015 15:00	120	40	0.4
8/21/2015 16:00	100	20	0.2



8/21/2015 17:00	95	15	0.15
8/21/2015 18:00	80	0	0
8/21/2015 19:00	85	5	0.05
8/21/2015 20:00	115	35	0.35
8/21/2015 21:00	145	65	0.65
8/21/2015 22:00	165	85	0.85
8/21/2015 23:00	195	115	1.15
8/22/2015 0:00	198	118	1.18
8/22/2015 1:00	175	95	0.95
8/22/2015 2:00	178	98	0.98
8/22/2015 3:00	195	115	1.15
8/22/2015 4:00	120	40	0.4
8/22/2015 5:00	100	20	0.2
8/22/2015 6:00	83	3	0.03
8/22/2015 7:00	80	0	0
8/22/2015 8:00	95	15	0.15
8/22/2015 9:00	100	20	0.2
8/22/2015 10:00	110	30	0.3
8/22/2015 11:00	120	40	0.4
8/22/2015 12:00	130	50	0.5
8/22/2015 13:00	140	60	0.6
8/22/2015 14:00	150	70	0.7
8/22/2015 15:00	120	40	0.4
8/22/2015 16:00	100	20	0.2
8/22/2015 17:00	95	15	0.15
8/22/2015 18:00	85	5	0.05
8/22/2015 19:00	90	10	0.1
8/22/2015 20:00	120	40	0.4
8/22/2015 21:00	135	55	0.55
8/22/2015 22:00	150	70	0.7
8/22/2015 23:00	180	100	1
8/23/2015 0:00	190	110	1.1
8/23/2015 1:00	170	90	0.9
8/23/2015 2:00	160	80	0.8
8/23/2015 3:00	130	50	0.5
8/23/2015 4:00	125	45	0.45
8/23/2015 5:00	110	30	0.3
8/23/2015 6:00	80	0	0
8/23/2015 7:00	105	25	0.25
8/23/2015 8:00	90	10	0.1
8/23/2015 9:00	106	26	0.26
8/23/2015 10:00	124	44	0.44

8/23/2015 11:00	142	62	0.62
8/23/2015 12:00	149	69	0.69
8/23/2015 13:00	150	70	0.7
8/23/2015 14:00	148	68	0.68
8/23/2015 15:00	139	59	0.59
8/23/2015 16:00	123	43	0.43
8/23/2015 17:00	105	25	0.25
8/23/2015 18:00	95	15	0.15
8/23/2015 19:00	80	0	0
8/23/2015 20:00	90	10	0.1
8/23/2015 21:00	110	30	0.3
8/23/2015 22:00	140	60	0.6
8/23/2015 23:00	160	80	0.8
8/24/2015 0:00	175	95	0.95
8/24/2015 1:00	190	110	1.1
8/24/2015 2:00	170	90	0.9
8/24/2015 3:00	160	80	0.8
8/24/2015 4:00	155	75	0.75
8/24/2015 5:00	120	40	0.4
8/24/2015 6:00	75	-5	-0.05
8/24/2015 7:00	110	30	0.3
8/24/2015 8:00	90	10	0.1
8/24/2015 9:00	115	35	0.35
8/24/2015 10:00	130	50	0.5
8/24/2015 11:00	140	60	0.6
8/24/2015 12:00	158	78	0.78
8/24/2015 13:00	160	80	0.8
8/24/2015 14:00	155	75	0.75
8/24/2015 15:00	140	60	0.6
8/24/2015 16:00	130	50	0.5
8/24/2015 17:00	115	35	0.35
8/24/2015 18:00	90	10	0.1
8/24/2015 19:00	100	20	0.2
8/24/2015 20:00	115	35	0.35
8/24/2015 21:00	120	40	0.4
8/24/2015 22:00	130	50	0.5
8/24/2015 23:00	140	60	0.6
8/25/2015 0:00	160	80	0.8
8/25/2015 1:00	180	100	1
8/25/2015 2:00	170	90	0.9
8/25/2015 3:00	155	75	0.75
8/25/2015 4:00	130	50	0.5

8/25/2015 5:00	120	40	0.4
8/25/2015 6:00	80	0	0
8/25/2015 7:00	130	50	0.5
8/25/2015 8:00	95	15	0.15
8/25/2015 9:00	80	0	0
8/25/2015 10:00	70	-10	-0.1
8/25/2015 11:00	60	-20	-0.2
8/25/2015 12:00	105	25	0.25
8/25/2015 13:00	120	40	0.4
8/25/2015 14:00	130	50	0.5
8/25/2015 15:00	140	60	0.6
8/25/2015 16:00	145	65	0.65
8/25/2015 17:00	145	65	0.65
8/25/2015 18:00	120	40	0.4
8/25/2015 19:00	125	45	0.45
8/25/2015 20:00	120	40	0.4
8/25/2015 21:00	115	35	0.35
8/25/2015 22:00	129	49	0.49
8/25/2015 23:00	135	55	0.55
8/26/2015 0:00	140	60	0.6
8/26/2015 1:00	153	73	0.73
8/26/2015 2:00	155	75	0.75
8/26/2015 3:00	165	85	0.85
8/26/2015 4:00	160	80	0.8
8/26/2015 5:00	170	90	0.9
8/26/2015 6:00	160	80	0.8
8/26/2015 7:00	145	65	0.65
8/26/2015 8:00	130	50	0.5
8/26/2015 9:00	105	25	0.25
8/26/2015 10:00	90	10	0.1
8/26/2015 11:00	95	15	0.15
8/26/2015 12:00	100	20	0.2
8/26/2015 13:00	110	30	0.3
8/26/2015 14:00	120	40	0.4
8/26/2015 15:00	130	50	0.5
8/26/2015 16:00	140	60	0.6
8/26/2015 17:00	150	70	0.7
8/26/2015 18:00	160	80	0.8
8/26/2015 19:00	140	60	0.6
8/26/2015 20:00	125	45	0.45
8/26/2015 21:00	110	30	0.3
8/26/2015 22:00	130	50	0.5

8/26/2015 23:00	135	55	0.55
8/27/2015 0:00	140	60	0.6
8/27/2015 1:00	160	80	0.8
8/27/2015 2:00	168	88	0.88
8/27/2015 3:00	175	95	0.95
8/27/2015 4:00	178	98	0.98
8/27/2015 5:00	180	100	1
8/27/2015 6:00	185	105	1.05