

BAB VI

KESIMPULAN DAN SARAN

6.1 Kesimpulan

Berdasarkan hasil analisis dan pembahasan dalam Perencanaan Embung Memanjang dengan metode yang telah ditentukan, maka dapat disimpulkan bahwa :

1. Berdasarkan hasil perhitungan, maka debit banjir rencana yang diperoleh yaitu sebesar $3,44 \text{ m}^3/\text{s}$ dengan periode ulang 25 tahun.
2. Bendung A (tinggi bendung = $P_b = 2,4 \text{ m}$), (lebar peluap = $t_b = 0,473 \text{ m}$), dan (panjang olakan = $L_o = 2,3 \text{ m}$); bendung B ($P_b = 2 \text{ m}$, $t_b = 0,473 \text{ m}$, $L_o = 1,98 \text{ m}$); bendung C ($P_b = 1,6 \text{ m}$, $t_b = 0,473 \text{ m}$, $L_o = 1,66 \text{ m}$); bendung D ($P_b = 1,4 \text{ m}$, $t_b = 0,473 \text{ m}$, $L_o = 1,94 \text{ m}$); bendung E ($P_b = 1,2 \text{ m}$, $t_b = 0,473 \text{ m}$, $L_o = 1,73 \text{ m}$) dan bendung F ($P_b = 1 \text{ m}$, $t_b = 0,473 \text{ m}$, $L_o = 1,52 \text{ m}$).
3. Perbandingan antara data curah hujan stasiun terdekat dan data riil tidak dapat dilakukan secara maksimal. Keterbatasan waktu, cuaca ekstrim, dan beberapa hal lainnya menjadi penghambat saat pengumpulan data riil. Hanya pada bulan Februari data curah hujan riil yang dapat dipertimbangkan. Untuk itu penggunaan data curah hujan dari stasiun terdekat menjadi pilihan sebagai perhitungan dalam perencanaan.

4. Dalam waktu 12 bulan (1 tahun) dengan menggunakan debit andalan 80% dan lebar dasar 4 m, tampungan hanya akan terisi penuh selama 5 bulan dan 3 bulan mengalami kekosongan. Pada bulan Juli hingga September, embung terisi namun tidak penuh. Ini dikarenakan curah hujan yang jatuh tidak dapat memenuhi kebutuhan tampungan dan embung memiliki batas tampungan ketika curah hujan meningkat. Ketersediaan air akan terpenuhi apabila embung memiliki kapasitas tampungan minimal $7531,08 \text{ m}^3$ dengan cara diperlebar (mengurangi lahan pertanian/pemukiman penduduk sekitar embung). Meningkatkan kapasitas embung dengan menaikkan tinggi bendung tanpa galian akan membahayakan karena terdapat 2 buah jembatan di atas embung yang bisa saja tergenang, namun penggalian tidak dapat dilaksanakan karena tanah pada titik yang ditinjau sudah termasuk dalam kategori tanah keras.

6.2 Saran

Ketersediaan air yang memadai akan berpengaruh besar terhadap kehidupan masyarakat, maka diperlukan tindak lanjut untuk mengatasi masalah yang belum terselesaikan, seperti :

1. Data riil yang lebih akurat, pengukuran topografi yang jauh lebih kompleks dan diperlukan analisa lebih rinci tentang evaporasi maupun infiltrasi embung.
2. Untuk mengatasi kekosongan pada tampungan, masyarakat sekitar dapat mengatasinya dengan melakukan pemompaan sumur terdekat yang telah disediakan sebelumnya.
3. Walaupun selama 8 bulan ketersediaan air tercukupi, masyarakat juga harus tetap menggunakan air secara baik dan tidak berlebihan agar tinggi muka air tanah tetap terjaga. Sebagai penunjang, sosialisasi mengenai ketersediaan dan penggunaan air yang baik perlu disampaikan untuk menambah pengetahuan serta menjadikan masyarakat yang cerdas dalam mengelola sumber daya air.
4. Cara meningkatkan kapasitas embung hingga mencapai 7531,08 m³ perlu dilakukan pelebaran yang akan memakan lahan pertanian/pemukiman penduduk, sehingga penduduk diharapkan dapat ikut berpartisipasi dengan kesediaannya dalam pelebaran saluran untuk menggunakan lahan pertanian/pemukiman penduduk.

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Lampiran Data Hujan Stasiun Playen Tahun 1999

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	54.1	47.5	0	0.9	0.2	0.0	0	0	0	0	0	0
2	40.2	2.8	0.4	14.7	0	0.0	0	0	0	0	9.2	0
3	72.8	8.5	3.3	4.1	1	0.0	13.7	0	0	0	0	2.5
4	0	41	1.5	0	1.2	18.9	19.4	0	0	0	14.4	9.5
5	1.2	13.1	5.1	20.8	0.2	0.0	0	0	0	0	2	0
6	0	0	8	13.9	0	0.0	0	0	0	0	0.2	0
7	4.1	0	47.7	2	4.1	0.5	0	0	0	0	0	0
8	11	1.2	0.2	0	45.2	0.0	0	0	0	0	0	16.5
9	0.2	0	1	0	0	0.0	0	0	0	0	0.3	1.5
10	0.3	6.8	9	0.3	0	0.0	0	0	0	0	1.2	6.5
11	10.9	0	4	0.2	10	0.0	0	0	0	0	0.1	0
12	13.7	0	0	32.9	0	0.0	0	0	0	0.7	0	0
13	0	3.5	0	11.5	0	0.0	0	0	0	1.2	0	0
14	0	7	0	4	0	0.0	0	0	0	0.9	0.9	6
15	4.5	0	8.5	1.8	60	0.0	0	0	0	48.4	11.4	2.1
16	0	2.5	8.6	12.4	0	0.0	0	0	0	0	2	0
17	0	4.2	5.6	40.1	0	0.0	0	0	0	0	1.2	0
18	6.1	3.5	0	5.9	0	0.0	0	0	0	0	4	0
19	4.3	9.2	0.5	0	0	0.0	0	0	0	0	0	0
20	0.8	13.7	0	0	0	0.0	0	0	0	3.8	1.5	0
21	0	28.8	0	0	0	0.0	0	0	0	0	33.7	0.8
22	2.5	1.6	0	0	0	0.0	0	0	0	0	15.1	0
23	10.8	32.3	27.5	0.4	0	0.0	0.7	0	0	0	2.4	0.9
24	0.9	0.7	0	0	0	0.0	0	0	0	0	1.6	45.5
25	0	0	1.6	0	0	0.0	0	0	0	0	0	3.5
26	0	0	2.7	0	0	0.0	0	0	0	2	0	0
27	0	55.4	4.9	0.9	0	0.0	0	0	0	13.5	0	0
28	0	5.5	12.3	0	0	1.2	0	0	0	0	0	0
29	0	0	16.5	0	0	0.0	0	0	0	0	0	0
30	0	0	0.5	0.6	0	0.0	0	0	0	16.9	0	0
31	0	0	1.9	0	0	0	0	0	0	0	0	0

Lampiran Data Hujan Stasiun Playen Tahun 2000

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1.0	0.0	13.4	2.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	23.0
2.0	0.0	56.3	2.3	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	5.5
3.0	10.8	41.1	5.2	0.0	0.4	10.9	0.0	0.0	0.0	0.0	94.7	0.0
4.0	15.7	39.6	1.8	11.0	5.0	3.6	0.0	0.0	0.0	0.0	47.4	0.0
5.0	5.3	23.0	0.5	7.4	2.5	3.3	0.0	0.0	0.0	3.7	15.8	0.0
6.0	23.5	0.1	2.0	2.1	0.0	1.9	0.0	0.0	0.0	0.0	15.8	0.0
7.0	11.1	36.2	1.7	1.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0
8.0	0.0	4.1	0.9	1.5	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0
9.0	0.3	1.7	5.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	76.3	0.0
10.0	0.7	5.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0
11.0	2.0	3.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.8	34.3	23.0
12.0	0.6	5.5	1.8	0.0	4.6	0.0	0.0	0.0	0.0	0.0	18.8	83.0
13.0	0.0	5.5	5.6	2.5	8.8	0.0	1.3	0.0	15.8	47.8	10.7	25.0
14.0	0.0	0.9	0.4	0.0	18.3	0.0	0.0	0.0	0.0	29.2	5.1	2.5
15.0	4.4	0.0	0.0	9.9	3.2	0.0	0.0	0.0	0.0	1.4	27.7	0.0
16.0	0.7	0.3	0.3	1.9	0.0	0.0	0.0	0.0	0.0	15.1	7.9	0.0
17.0	0.0	3.5	0.1	0.3	0.0	0.0	0.0	0.0	0.0	52.9	15.8	0.0
18.0	15.4	19.1	0.5	2.3	0.0	2.7	0.0	0.0	0.0	28.4	15.8	0.0
19.0	0.0	8.5	0.7	0.2	22.3	19.3	0.0	0.0	0.0	0.0	0.0	0.0
20.0	17.6	9.0	0.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0
21.0	44.2	2.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.0	2.3	5.3	0.8	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.0	18.7	4.5	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
24.0	0.4	6.2	3.3	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
25.0	7.8	2.0	2.9	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	7.0
26.0	0.0	2.1	2.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.0	4.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	7.2	15.2	23.7	0.0
28.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.5	5.6	30.5
29.0	0.0	0.0	19.3	0.0	1.7	0.0	0.0	0.0	0.0	0.0	19.0	7.5
30.0	1.9	0.0	0.0	1.5	0.0	0.0	0.0	0.0	6.2	0.6	15.8	0.0
31.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	12.0	0.0

Lampiran Data Hujan Stasiun Playen Tahun 2001

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	23.8	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	17.3
2	0.0	30.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	4.0	33.2	19.7
3	1.6	22.7	32.9	4.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4
4	6.7	31.6	50.1	4.2	43.5	8.0	0.0	0.0	0.0	0.0	0.0	39.5
5	7.0	37.6	39.5	11.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9
6	15.6	8.1	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
7	25.8	81.2	50.9	31.5	0.0	16.0	0.0	0.0	0.0	0.0	0.0	1.9
8	0.6	12.7	0.0	5.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	13.4
9	0.0	10.7	7.9	0.0	31.5	53.0	0.0	0.0	0.0	33.0	0.0	0.0
10	1.6	0.0	7.9	40.0	0.0	15.5	0.0	0.0	0.0	5.0	0.0	0.0
11	1.6	0.0	27.2	67.0	0.0	14.5	0.0	0.0	0.0	0.0	0.0	0.0
12	5.9	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	0.0
13	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	7.3	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	103.0	0.0	0.0
15	0.8	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	1.5	19.7
16	0.0	0.0	0.0	21.5	0.0	0.0	4.5	0.0	0.0	15.0	40.5	0.0
17	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	20.0	25.1	0.0
18	1.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0
19	1.6	24.9	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0
20	2.0	0.0	13.8	0.0	83.5	26.5	0.0	0.0	0.0	0.0	20.1	0.0
21	6.8	0.0	27.2	0.0	0.0	3.0	14.0	0.0	0.0	101.0	0.0	0.0
22	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	15.8	0.0
23	2.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0
24	2.2	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	42.5	0.0	0.0
25	6.4	0.0	14.2	17.5	0.0	0.0	0.0	0.0	0.0	37.5	11.8	0.0
26	2.4	17.4	15.8	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
27	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	18.5	5.7	0.0
28	6.6	18.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0	30.0	23.7	0.0
29	4.8		31.6	0.0	72.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
30	4.1		64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	29.1
31	0.0		0.0		0.0		0.0	0.0		0.0		2.6

Lampiran Data Hujan Stasiun Playen Tahun 2002

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.0
2	10.7	27.6	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	23.7	12.6
3	0.3	16.9	2.9	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	6.6	10.8	5.4	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	66.5	13.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	12.5	4.6	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
8	0.0	20.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	25.0
9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
10	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	6.1	5.0
11	0.0	18.9	8.5	0.0	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	8.6	5.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	3.2	6.8	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2
14	1.2	43.8	23.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
15	0.0	0.0	11.7	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2
16	0.0	7.9	21.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.0
17	37.1	4.3	0.0	23.1	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0
18	13.4	21.4	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	26.3	2.7
19	47.0	34.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	82.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	27.9	7.5	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	29.9	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2
23	25.7	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9
24	23.1	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
25	16.4	12.0	45.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
26	19.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
27	22.1	3.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
28	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4
29	22.1		7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
30	21.0		30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		3.7		0.0		0.0	0.0		0.0		5.2

Lampiran Data Hujan Stasiun Playen Tahun 2003

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	5.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	0.0
2	45.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3
3	10.2	0.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
4	9.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9
5	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7
6	1.6	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6
7	0.3	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	30.2
8	0.0	3.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	44.9
9	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	28.0	27.9
10	0.0	7.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
12	11.3	6.8	5.2	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.8
14	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	26.8	2.0
15	0.0	4.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	47.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
19	15.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0
20	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	42.1
21	0.0	0.0	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	9.7	27.9
22	6.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	22.1	32.2
23	0.4	5.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2
24	16.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0
25	0.9	0.9	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3
26	11.4	7.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
28	0.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	18.0
29	0.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	17.3	41.0
30	10.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	4.0	0.0
31	8.3		0.0		0.0		0.0	0.0		0.0		0.0

Lampiran Data Hujan Stasiun Playen Tahun 2004

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	39.5	4.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.3
2	0.0	8.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
3	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5
4	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
6	0.0	39.5	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	3.2	0.0	0.0	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	12.8	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8
9	0.0	0.0	0.0	3.9	0.0	2.2	0.0	0.0	0.0	0.0	1.2	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	21.7	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	25.3	23.3	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	2.6	31.6	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0
15	0.0	44.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	12.6	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0
17	23.5	2.5	0.0	7.1	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0
18	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.2	18.9	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
20	0.0	15.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
21	15.2	8.4	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
22	4.7	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	16.9
23	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	7.3	1.7
24	0.0	1.4	0.0	0.0	11.1	0.0	0.0	0.0	0.0	7.5	3.9	26.8
25	2.1	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	1.3
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	6.5
27	43.7	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.8
28	23.2	10.3	0.0	0.9	28.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
29	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	16.8
30	25.5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
31	0.0		2.7		0.0		0.0	0.0		0.0		0.0

Lampiran Data Hujan Stasiun Playen Tahun 2005

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	0.7	0.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.2
2	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	27.2
3	0.8	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
4	0.0	0.0	0.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	17.1	8.3
5	0.0	0.0	36.4	29.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	7.1
6	4.3	0.0	0.6	7.4	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
7	4.0	0.0	0.3	37.1	0.0	0.0	21.3	0.0	0.0	0.0	0.0	0.0
8	9.5	0.0	2.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
9	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	13.3
10	0.0	7.8	1.4	0.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.2
11	0.0	24.5	0.4	35.5	0.0	0.0	20.8	0.0	0.0	0.0	0.0	49.8
12	0.0	26.1	13.8	1.3	0.0	0.0	4.2	0.0	0.0	5.9	0.0	0.4
13	0.0	12.3	1.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
14	0.0	16.6	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	4.2
15	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
16	18.4	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
17	18.2	0.0	0.4	0.0	0.0	0.0	1.5	0.0	0.0	35.5	5.3	12.9
18	6.1	19.7	0.0	2.4	0.0	0.0	0.0	0.0	0.0	3.5	0.0	3.4
19	56.7	11.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.4
20	33.1	36.0	0.0	2.5	0.0	1.2	0.0	0.0	4.3	0.0	0.0	6.7
21	15.8	6.7	0.0	0.2	0.0	26.8	0.0	0.0	1.4	0.0	0.6	1.8
22	7.4	0.8	1.5	0.0	0.0	25.2	0.0	0.0	2.3	0.0	0.0	1.4
23	22.1	4.4	1.1	0.0	0.0	1.1	0.0	0.0	0.0	15.2	0.0	0.0
24	5.4	0.6	1.5	0.0	0.0	0.0	0.0	0.0	1.6	0.2	12.6	0.0
25	0.0	3.2	33.2	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.6	0.0
26	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	2.4	0.4
27	0.0	2.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.6
28	0.0	0.0	0.8	0.0	0.0	1.6	0.0	0.0	0.0	1.4	0.0	0.4
29	7.5		0.6	0.0	0.0	1.2	0.0	0.0	1.0	0.0	9.5	1.8
30	4.5		8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.5
31	0.0		43.8		0.0		0.0	0.0		0.0		3.6

Lampiran Data Hujan Stasiun Playen Tahun 2006

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	14.1	35.9	21.1	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	23.7	8.3	32.3	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5.5	0.2	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	18.7	1.3	13.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.9
5	0.0	7.9	0.0	14.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.6
6	0.9	5.5	10.4	20.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.9	0.0	7.8	5.1	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.6	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
9	2.5	6.7	0.0	1.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	12.3	2.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.3	2.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.1	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
13	0.0	0.0	4.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.4
14	0.0	0.0	16.8	4.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.4
15	6.4	10.0	13.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
16	17.4	2.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
17	20.7	0.0	7.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.6	1.2	7.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
19	4.8	11.6	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
20	0.7	3.2	87.4	14.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0	27.6
21	0.0	0.0	30.9	9.9	7.5	14.2	0.0	0.0	0.0	0.0	0.3	56.9
22	4.3	18.0	14.4	0.4	14.6	17.4	0.0	0.0	0.0	0.0	0.0	8.3
23	18.8	0.0	17.5	0.0	23.7	0.0	0.0	0.0	0.0	0.0	0.0	18.2
24	21.4	0.7	11.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0
25	6.8	15.6	14.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.3	20.0
26	9.2	24.6	15.3	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.3	14.5
27	42.2	3.2	8.2	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	89.2
28	28.0	3.4	0.0	0.0	39.5	1.6	0.0	0.0	0.0	0.0	0.0	26.9
29	13.4		0.0	0.0	15.8	1.2	0.0	0.0	0.0	0.0	2.4	8.6
30	0.0		7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	11.9
31	20.4		0.0		0.0		0.0	0.0		0.0		3.1

Lampiran Data Hujan Stasiun Playen Tahun 2007

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	36.2	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	14.6	22.1
2	5.5	4.3	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	135.8	0.0
3	0.0	18.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	10.7	2.8
4	0.0	19.0	2.1	5.8	0.0	2.8	0.0	0.0	0.0	0.0	7.1	0.0
5	0.0	31.7	3.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.4
6	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.0
7	0.0	35.1	4.3	27.5	0.0	0.0	0.0	0.0	0.0	0.0	35.2	0.0
8	0.0	0.0	2.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
9	0.0	19.0	5.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.6
10	0.0	43.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.7
11	0.0	0.0	32.1	5.5	3.2	0.0	0.0	0.0	0.0	0.0	27.2	9.6
12	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0
13	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8
14	0.0	0.0	19.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	62.4
15	1.2	2.8	0.0	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	20.1
16	0.0	9.7	0.0	10.3	37.9	0.0	0.0	0.0	0.0	0.0	0.0	23.7
17	0.0	22.1	0.0	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3
18	0.0	0.0	14.1	38.7	0.0	0.0	16.6	0.0	0.0	0.0	0.0	4.3
19	0.0	10.7	27.6	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0
20	0.0	69.0	0.0	38.3	0.0	11.1	0.0	0.0	0.0	0.0	0.0	24.3
21	21.3	0.0	20.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
22	32.3	4.7	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
23	11.6	4.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	33.3
24	19.7	0.0	1.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8
25	11.8	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
26	0.0	4.6	15.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3
27	0.0	0.0	1.7	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	3.1	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6
29	0.0		45.2	0.0	0.0	55.3	0.0	0.0	0.0	0.0	0.0	16.6
30	0.0		0.0	0.0	27.6	0.0	0.0	0.0	0.0	57.6	0.0	9.0
31	0.0		1.8		0.0		0.0	0.0		19.7		1.6

Lampiran Data Hujan Stasiun Playen Tahun 2008

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	5.0	15.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	22.4	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0
3	5.5	15.8	1.6	23.7	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0
4	22.6	19.7	53.3	51.3	0.0	0.0	0.0	0.0	0.0	0.0	27.7	5.1
5	36.8	13.4	2.4	27.6	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0
6	3.9	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3	0.0
7	1.7	15.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	29.2	7.1
8	22.7	7.9	3.9	14.2	0.0	0.0	0.0	0.0	0.0	0.0	12.8	21.9
9	6.1	7.1	33.5	0.0	0.0	0.0	0.0	0.0	0.0	27.6	1.6	3.6
10	3.9	4.3	19.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	12.0	8.1
11	0.0	2.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	13.2
12	0.0	7.9	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	8.5
13	1.8	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
14	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	7.1	4.3
15	5.4	25.7	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.6
16	11.8	0.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	5.5
17	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	10.9
18	10.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	0.0
19	6.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	8.7	0.0
20	0.0	0.0	13.4	1.6	0.0	0.0	0.0	0.0	0.0	2.0	64.4	15.4
21	4.3	15.8	6.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.9
22	0.0	6.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	5.1	43.0	6.3
23	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	19.6
24	0.0	3.2	49.7	2.4	0.0	0.0	0.0	0.0	0.0	23.7	2.2	2.2
25	12.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	12.9
26	20.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.3	16.5	10.6
27	15.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.8	6.8
28	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	6.0
29	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6
30	0.0		4.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.5	25.3
31	0.0		0.0		0.0		0.0	0.0		0.0		17.7

Lampiran Data Hujan Stasiun Playen Tahun 2009

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0	0	0	19	0	0	0	0	0	0	0	0
2	24.2	95	10.5	38	69	0	0	0	0	0	0	1
3	30.6	0	0	28	58	0	0	0	0	0	0	0
4	0	9	0	4	0	0	0	0	0	0	0	2
5	12	29	3	20.3	6.5	0	0	0	0	0	0	1
6	24	12.5	0	10	0	0	0	0	0	0	0	0
7	0	38	0	24	0	0	0	0	0	0	0	14
8	10.8	27	33	0	0	0	0	0	0	0	0	0
9	0	19	0	0	0	0	0	0	0	0	0	0
10	8.2	7	0	0	0	0	0	0	0	0	0	20
11	16.2	0	28	0	0	0	0	0	0	0	0	0
12	20.4	0	0	6	0	0	0	0	0	0	0	45
13	16.2	0	30	0	0	0	0	0	5.5	0	11.5	0
14	0	0	0	2	0	0	0	0	13.5	0	0	2
15	80.6	0	0	5	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	2
17	0	8	5	9.5	0	0	0	0	0	0	0	0
18	24.6	8	0	38.5	0	0	0	0	0	0	28	0
19	30.2	31	0	0	0	0	0	0	0	0	0	0
20	18.2	0	42	4	4	0	0	0	0	0	35	10
21	0	5	0	0	0	0	0	0	0	0	0	8
22	0	3	0	3.5	3	0	0	0	0	0	14	0
23	0	3	0	0	0	0	0	0	0	0	0	15
24	24.6	0	0	50	0	0	0	0	0	0	3	91
25	40.8	0	14.5	0	0	0	0	0	0	0	24	23
26	28.2	6	0	3	0	0	0	0	0	0	0	2
27	0	47.5	0	0	0	0	0	0	0	0	0	0
28	18.2	0	28.5	0	0	0	0	0	0	0	0	0
29	20.4		2	0	0	0	0	0	0	0	7	0
30	36.4		0	0	0	0	0	0	0	0	0	0
31	0		0	0	0	0	0	0	0	0	0	0

Lampiran Data Hujan Stasiun Playen Tahun 2010

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.2
2	0.0	0.6	0.0	1.1	0.0	0.0	2.0	0.0	0.0	0.0	2.4	0.6
3	0.0	6.1	0.4	5.7	0.8	0.0	7.1	0.0	0.0	1.2	3.6	2.4
4	3.6	0.6	0.0	0.0	27.5	0.0	10.7	0.0	0.0	52.1	1.2	0.0
5	5.9	23.4	0.8	0.0	15.8	0.4	0.0	0.0	0.0	4.7	9.5	1.2
6	0.0	6.6	3.4	0.0	32.0	0.0	0.0	0.0	23.7	0.0	0.4	0.0
7	0.0	1.0	0.6	0.0	0.4	0.0	0.0	2.1	19.3	0.0	3.6	39.9
8	0.0	32.4	9.6	12.5	19.0	0.0	0.0	0.0	2.4	0.0	0.0	1.2
9	3.6	9.5	5.1	0.0	30.0	13.4	3.2	0.0	19.3	0.0	3.6	0.0
10	1.6	19.0	21.3	3.6	9.1	0.0	0.0	0.0	0.0	8.7	26.0	2.0
11	0.4	27.2	39.2	73.8	10.7	0.0	0.0	0.0	7.9	0.0	16.9	9.5
12	11.3	61.1	0.0	2.0	4.6	0.0	2.8	0.0	42.6	0.0	3.8	3.6
13	36.8	10.4	1.3	0.0	26.0	0.0	2.0	0.0	0.0	0.0	0.8	3.2
14	2.4	0.0	4.6	0.0	15.8	10.7	0.0	11.8	5.5	0.0	1.3	22.1
15	14.2	64.8	0.0	16.2	23.6	7.5	14.6	0.0	0.0	14.5	12.5	15.8
16	25.3	0.6	2.2	3.0	8.0	0.0	0.0	0.0	15.4	3.2	12.6	25.3
17	0.0	5.4	0.0	41.0	14.6	0.0	0.0	0.0	54.5	6.7	3.8	4.7
18	1.7	3.2	5.5	0.0	0.0	1.6	0.0	0.0	13.0	0.0	0.0	3.3
19	19.2	5.9	39.9	5.1	36.3	0.8	0.0	0.0	25.3	4.7	0.0	15.0
20	7.9	33.9	23.8	0.0	0.6	0.0	0.0	0.0	0.8	3.1	0.8	15.0
21	1.1	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	12.2
22	13.1	3.8	7.7	0.0	0.0	0.0	0.0	0.0	18.2	9.2	0.0	14.0
23	4.0	11.7	7.0	0.0	6.1	0.0	0.0	3.2	38.7	3.2	0.0	3.2
24	1.9	0.0	1.9	0.4	15.4	0.0	0.0	0.0	2.4	4.7	0.0	5.6
25	2.5	2.8	9.7	9.5	5.3	0.0	0.0	2.4	6.3	6.3	25.7	0.0
26	0.0	1.6	4.4	2.4	0.0	0.0	0.0	5.5	5.5	0.0	32.9	4.3
27	2.7	10.7	23.7	0.0	30.4	0.0	2.0	0.0	0.0	25.7	2.5	25.0
28	4.2	19.7	13.1	2.8	16.6	0.0	0.0	0.0	0.0	15.8	18.0	2.0
29	0.4		6.0	4.7	7.2	0.0	0.0	0.0	0.0	12.6	23.7	7.9
30	0.6		10.5	0.0	4.1	0.0	0.0	0.0	0.0	14.2	5.2	13.4
31	0.4		15.4		0.0		0.0	19.7		20.9		0.0

Lampiran Data Hujan Stasiun Playen Tahun 2011

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	0.0	6.7	3.2	1.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	10.9
2	8.3	11.6	138.1	4.7	2.0	0.0	0.0	0.0	0.0	0.0	27.4	0.5
3	30.4	14.5	0.8	0.0	19.5	0.8	0.0	0.0	0.0	0.0	23.8	10.7
4	70.8	0.0	1.2	75.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
5	38.2	23.7	5.8	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.9	0.0
6	32.7	34.0	4.3	12.2	29.9	9.9	0.0	0.0	0.0	0.0	31.6	0.1
7	26.2	3.6	8.3	7.1	23.3	4.4	0.0	0.0	0.0	0.0	9.9	2.4
8	18.5	14.6	5.5	52.3	8.7	0.0	0.0	0.0	0.0	0.0	22.9	3.1
9	7.2	3.1	1.2	8.7	0.4	0.0	0.0	0.0	0.0	0.0	2.6	2.2
10	12.2	0.0	0.0	1.3	1.1	0.0	0.0	0.0	0.0	0.0	9.5	0.0
11	7.3	10.5	3.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0
12	7.2	51.0	4.8	7.9	0.4	0.0	0.0	0.0	0.0	0.0	0.6	57.8
13	2.3	0.0	24.9	0.0	0.4	0.0	0.0	0.0	0.0	0.0	5.4	0.0
14	13.8	1.1	3.6	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5
15	3.9	53.0	5.5	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
16	12.6	3.6	2.0	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0
17	1.1	1.7	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.2
18	36.3	2.9	19.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	30.9	38.2
19	12.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	10.8
20	7.9	7.1	8.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0	11.4	1.6
21	7.3	0.0	9.1	0.0	4.4	0.0	0.0	0.0	0.0	1.2	42.1	29.7
22	7.0	33.2	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	31.3	1.4
23	0.0	42.1	25.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.5	0.0
24	32.5	1.2	7.9	11.4	0.0	0.0	0.0	0.0	0.0	18.1	0.0	1.6
25	30.3	37.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
26	13.4	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	9.4
27	2.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	9.6
28	0.2	6.2	35.6	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
29	32.7		6.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.0	4.7
30	16.8		12.6	1.7	0.0	0.0	0.0	0.0	0.0	4.7	0.1	39.9
31	2.8		7.5		0.0		0.0	0.0		8.3		27.0

Lampiran Data Hujan Stasiun Playen Tahun 2012

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	1.5	1.5	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
3	0.0	4.5	11.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5
4	4.5	88.0	9.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
5	0.0	35.5	4.0	19.5	3.0	0.0	0.0	0.0	0.0	0.0	2.0	10.5
6	0.0	1.2	31.0	3.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	20.0
7	6.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	31.0
8	33.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	19.0	22.0	41.0	1.5	12.5	0.0	0.0	0.0	0.0	0.0	0.5	11.0
10	8.5	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.0
11	22.5	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
12	3.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.5	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
14	21.0	0.0	5.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0
15	4.0	0.0	0.0	18.5	5.5	0.0	0.0	0.0	0.0	0.0	3.7	12.0
16	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	44.0
17	15.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	10.0
18	7.5	0.5	0.0	2.0	3.5	0.0	0.0	0.0	0.0	2.0	0.0	7.5
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0
20	4.0	20.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	21.0
21	25.5	25.0	39.0	0.0	0.0	2.5	0.0	0.0	0.0	16.0	0.0	0.0
22	0.0	46.5	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	4.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	20.0
24	0.0	36.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
25	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
27	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
28	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	8.0
29	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	9.0
30	0.0		0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	56.0
31	7.0		1.5		0.0		0.0	0.0		0.0		46.0

Lampiran Data Hujan Stasiun Playen Tahun 2013

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	14	2.5	0	0	0	31	0	0	0	0	0	10
2	84	15	0	7	0	0	0	0	0	0	0	0
3	0	18	0	0	0	0	42	0	0	0	41	0
4	16	0	25	0	0	0	5	0	0	0	0	0
5	5	37	26	0	0	0	0	0	0	0	0	0
6	8	6	0	0	0	0	0	0	0	0	0	0
7	2	0	0	15	16	40	40	0	0	0	0	0
8	46	37	0	0	0	34	15	0	0	0	3.6	23.2
9	2	0	0	8	0	14	14	0	0	0	0	17.5
10	4	14	0	0	0	0	0	0	0	0	13.5	0
11	0	0	0	0	0	3	3	0	0	0	5.5	87
12	4	8	0	7	0	43	43	0	0	0	0	22
13	11	30	0	0	0	13	13	0	0	0	11	25
14	4	19	10	10	0	0	0	0	0	0	0	0
15	28	0	1.7	0	6	0	0	0	0	0	58	0
16	3	3	1.9	0	0	0	0	0	0	0	1	0
17	53	43	3	7	10	0	0	0	0	0	52	9
18	29	0	0	9	20	0	0	0	0	0	0	2
19	15	83	17	0	7	0	0	0	0	8	0	50
20	0	7	0	17	0	0	0	0	0	0	22	20
21	18	2	0	0	14	22.5	0	0	0	0	0	14
22	0	8	0	0	48	0	22	0	0	0	0	34.7
23	8	0	0	10	0	0	0	0	0	0	0	12
24	0	10	6	0	0	0	0	0	0	0	16	5.5
25	9	5	29	0	14	0	0	0	0	0	0	0
26	11	4	0	0	7	0	0	0	0	0	0	0
27	3	0	17	0	0	0	0	0	0	0	0	0
28	0	29	0	0	0	0	0	0	0	22.7	3	0
29	0		21	0	0	2	0	0	0	88	0	6.5
30	0		0	0	12	0	0	0	0	3	0	0
31	0		0		8		0	0		0		0

Lampiran Data Hujan Stasiun Playen Tahun 2014

Tanggal	Bulan											
	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	39.5	5.5	0	0	0	0	0	0	0	0	0	18
2	0.5	0	0	11.5	1.5	0	0	0	0	0	0	1
3	0	28.5	0	7.5	0	0	0	0	0	0	0	28.5
4	0	0	4	21	0	0	0	0	0	0	0	0
5	1	23	0	0	0	0	0	0	0	0	0	2.5
6	0	43	0	7.5	0	0	0	0	0	0	0	3.7
7	4.2	35	0	13	0	0	0	0	0	0	0	0
8	16	5.5	0	0	0	0	0	0	0	0	0	0.8
9	0	41.5	0	5.5	0	0	0	0	0	0	0	2.5
10	9.5	31.5	0	0	0	0	0	0	0	0	4	2.2
11	55.5	38.5	0	3.5	0	0	0	0	0	0	25	84
12	0	0	4.5	0	0	0	0	0	0	0	0	0.5
13	9.5	5	0	17	31	0	0	0	0	0	0.5	5
14	27	3.5	0	0	14	0	0	0	0	0	22.5	31.5
15	28	0	24.5	10.5	0	0	0	0	0	0	4	0
16	13	2	0	6.5	0	0	0	0	0	0	6.5	78
17	0	7.5	0	0	0	0	0	0	0	0	3	0
18	0	0	3.5	0	0	7.5	0	0	0	0	9.5	14
19	0	6	0	17.5	0	0	0	0	0	0	0	0
20	13.5	0	1.5	0	0	0	0	0	0	0	0	3.5
21	0	0	0	41.5	0	0	0	0	0	0	0	12
22	0	9	0	0	0	14	0	0	0	0	0	2.2
23	19	20	0	0	0	0	0	0	0	0	0	2.5
24	39.5	8	10	0	0	0	0	0	0	0	1.5	2.5
25	9	90	3.5	0	0	42.5	0	0	0	0	0	2.2
26	5	8	0	0	0	18	0	0	0	0	0	36
27	0	4	25.5	9.5	0	9	0	0	0	0	0	96
28	11	0	28	10	0	0	0	0	0	0	0	10
29	27.5		0	0	0	0	0	0	0	0	70	10.5
30	0		0	0	0	0	0	0	0	0	13	0
31	9		0		0		0	0		0		3

Lampiran K untuk Distribusi Log Pearson 3

Koef Cs	Interval kejadian, tahun (periode ulang)							
	1,01	1,25	2	5	10	25	50	100
	Persentase peluang terlampaui							
	99	80	50	20	10	4	2	1
3,0	-0,667	-0,636	-0,396	0,420	1,18	2,278	3,152	4,051
2,8	-0,714	-0,666	-0,384	0,460	1,21	2,275	3,114	3,973
2,6	-0,769	-0,696	-0,368	0,499	1,238	2,267	3,071	2,889
2,4	-0,832	-0,725	-0,351	0,537	1,262	2,256	3,023	3,800
2,2	-0,905	-0,752	-0,330	0,574	1,284	2,24	2,970	3,705
2,0	-0,99	-0,777	-0,307	0,609	1,302	2,219	2,192	3,605
1,8	-1,087	-0,799	-0,282	0,643	1,318	2,193	2,848	3,499
1,6	-1,197	-0,817	-0,254	0,675	1,329	2,163	2,780	3,388
1,4	-1,318	-0,832	-0,225	0,705	1,337	2,128	2,706	3,271
1,2	-1,449	-0,844	-0,195	0,732	1,34	2,087	2,970	3,149
1,0	-1,588	-0,852	-0,164	0,758	1,34	2,043	2,542	3,022
0,8	-1,733	-0,856	-0,132	0,780	1,336	1,993	2,453	2,891
0,6	-1,880	-0,857	-0,099	0,80	1,328	1,939	2,359	2,755
0,4	-2,029	-0,855	-0,066	0,816	1,317	1,880	2,261	2,615
0,2	-2,178	-0,850	-0,033	0,830	1,301	1,818	2,159	2,472
0,0	-2,326	-0,842	0	0,842	1,282	1,751	2,051	2,326
-0,2	-2,472	-0,830	0,033	0,850	1,258	1,680	1,945	2,178
-0,4	-2,615	-0,816	0,066	0,855	1,231	1,606	1,834	2,029
-0,6	-2,755	-0,800	0,099	0,857	1,2	1,528	1,720	1,880
-0,8	-2,891	-0,780	0,132	0,856	1,166	1,448	1,606	1,733
-1,0	-3,022	-0,758	0,164	0,852	1,128	1,366	1,492	1,588
-1,2	-2,149	-0,732	0,195	0,844	1,086	1,282	1,379	1,449
-1,4	-2,271	-0,705	0,225	0,832	1,041	1,198	1,270	1,318
-1,6	-2,388	-0,675	0,254	0,817	0,994	1,116	1,166	1,197
-1,8	-3,499	-0,643	0,282	0,799	0,945	1,035	1,069	1,087
-2,0	3,605	-0,609	0,307	0,777	0,895	0,959	0,980	0,990
-2,2	-3,705	-0,574	0,330	0,752	0,844	0,888	0,900	0,905
-2,4	-3,800	-0,537	0,351	0,725	0,795	0,823	0,830	0,832
-2,6	-3,889	-0,490	0,368	0,696	0,747	0,764	0,768	0,769
-2,8	-3,973	-0,469	0,384	0,666	0,702	0,712	0,714	0,714
-3,0	-7,051	-0,420	0,394	0,636	0,660	0,666	0,666	0,667

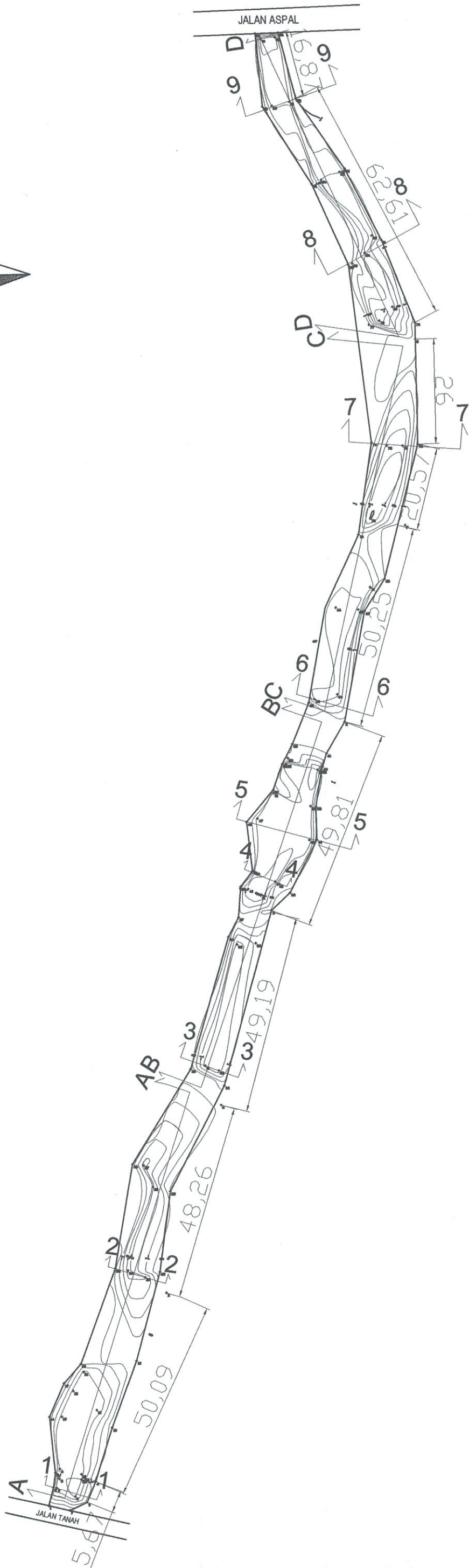
Lampiran Tabel Chi Kuadrat Kritik

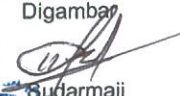


DK	Distnbusi χ^2											
	0,99	0,95	0,90	0,80	0,70	0,50	0,30	0,20	0,10	0,05	0,01	0,001
1	0,000	0,004	0,016	0,064	0,148	0,455	1,074	1,642	2,706	3,481	6,635	10,827
2	0,020	0,103	0,211	0,446	0,713	0,139	2,408	3,219	3,605	5,591	9,210	13,815
3	0,115	0,352	0,584	1,005	1,424	2,366	3,665	4,642	6,251	7,815	11,341	16,268
4	0,297	0,711	1,064	1,649	2,195	3,357	4,878	5,989	7,779	9,488	13,277	18,465
5	0,554	1,145	1,610	2,343	3,000	4,351	6,064	7,289	9,236	11,070	15,086	20,517
6	0,872	1,635	2,204	3,070	3,828	5,348	7,231	8,558	10,645	12,592	16,812	22,457
7	1,239	2,167	2,833	3,822	4,671	6,346	8,383	9,803	12,017	14,017	18,475	24,322
8	1,646	2,733	3,890	4,594	5,527	7,344	9,524	11,030	13,362	15,507	20,090	26,425
9	2,088	3,325	4,168	5,380	6,393	8,343	10,656	12,242	14,684	16,919	21,666	27,877
10	2,558	3,940	6,179	6,179	7,267	9,342	11,781	13,442	15,987	18,307	23,209	29,588
11	3,053	4,575	5,578	6,989	8,148	10,341	12,899	14,631	17,275	19,675	24,725	31,624
12	3,571	5,226	6,304	7,807	9,034	11,340	14,011	15,812	18,549	21,026	26,217	32,909
13	4,107	5,892	7,042	8,634	9,926	12,340	15,19	16,985	19,812	22,368	27,688	34,528
14	4,660	6,571	7,790	9,467	10,821	13,332	16,222	18,151	21,064	23,685	29,141	36,123
15	5,229	7,261	8,547	10,307	11,721	14,339	17,322	19,311	22,307	24,996	30,578	37,697
16	5,812	7,962	9,312	11,152	12,624	15,338	18,418	20,465	23,542	26,296	32,000	39,252
17	6,408	8,672	10,085	12,002	13,531	16,337	19,511	21,615	24,785	27,587	33,409	40,790
18	7,015	9,390	10,865	12,857	14,440	17,338	20,601	22,760	26,028	28,869	34,805	42,312
19	7,633	10,117	11,651	13,716	15,352	18,338	21,689	23,900	27,271	30,144	36,191	43,820
20	8,260	10,851	12,443	14,578	16,267	19,337	22,775	25,038	28,514	31,410	37,566	45,315
21	8,897	11,501	13,240	15,445	17,182	20,337	23,858	26,171	29,615	32,671	38,932	46,797
22	9,542	12,338	14,041	16,314	18,101	21,337	24,939	27,301	30,813	33,924	40,289	48,268
23	10,196	13,091	14,848	17,187	19,021	22,337	26,018	28,429	32,007	35,172	41,638	49,728
24	10,856	13,848	15,659	18,062	19,943	23,337	27,096	29,553	33,194	35,415	42,980	51,179
25	11,524	14,611	16,473	18,940	20,867	24,337	28,172	30,675	34,382	37,652	44,314	52,620
26	12,198	15,379	17,292	19,820	21,792	25,336	29,246	31,795	35,563	38,885	45,642	54,052
27	12,879	16,151	18,114	20,703	22,719	26,336	30,319	32,912	36,741	40,113	46,963	55,576
28	13,565	16,928	18,939	21,588	23,647	27,336	31,391	34,027	37,916	41,337	48,278	56,893
29	14,256	17,708	19,768	22,475	24,577	28,336	32,461	35,139	39,087	42,557	49,588	58,302
30	14,953	18,493	20,599	23,364	25,508	29,336	33,530	36,250	40,256	43,775	50,892	59,703



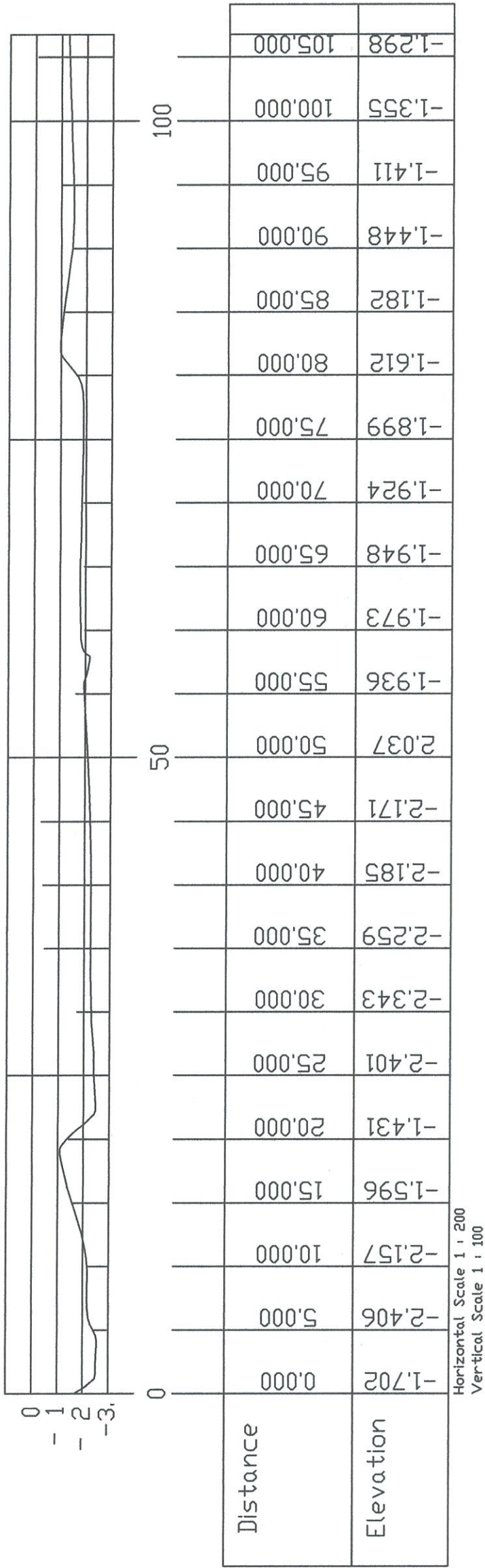
Lampiran Nilai-Nilai dalam Distribusi -t

α untuk Uji Dua Pihak (<i>Two Tail Test</i>)						
	0,50	0,20	0,10	0,05	0,02	0,01
α untuk Uji Satu Pihak (<i>One Tail Test</i>)						
DK	0,25	0,10	0,05	0,025	0,01	0,005
1	1,000	3,078	6,314	12,076	31,821	63,657
2	0,816	1,886	2,920	4,303	6,965	9,925
3	0,765	1,638	2,353	3,182	4,541	5,841
4	0,741	1,533	2,132	2,776	3,747	4,604
5	0,727	1,486	2,015	2,571	3,365	4,032
6	0,718	1,440	1,943	2,447	3,143	3,707
7	0,711	1,415	1,895	2,265	2,998	3,499
8	0,706	1,397	1,860	2,306	2,896	3,355
9	0,703	1,383	1,833	2,262	2,821	3,250
10	0,700	1,372	1,812	2,228	2,764	3,169
11	0,697	1,363	1,796	2,201	2,718	3,106
12	0,695	1,356	1,782	2,178	2,681	3,055
13	0,692	1,350	1,771	2,160	2,650	3,012
14	0,691	1,345	1,761	2,145	2,624	2,977
15	0,690	1,341	1,753	2,132	2,623	2,947
16	0,698	1,337	1,746	2,120	2,583	2,921
17	0,688	1,333	1,743	2,110	2,567	2,898
18	0,688	1,330	1,740	2,101	2,552	2,878
19	0,687	1,328	1,729	2,093	2,539	2,861
20	0,687	1,325	1,725	2,086	2,528	2,845
21	0,686	1,323	1,721	2,080	2,518	2,831
22	0,686	1,321	1,717	2,074	2,508	2,819
23	0,685	1,319	1,714	2,069	2,500	2,807
24	0,685	1,318	1,711	2,064	2,492	2,797
25	0,684	1,316	1,708	2,060	2,485	2,787
26	0,684	1,315	1,706	2,056	2,479	2,779
27	0,684	1,314	1,703	2,052	2,473	2,771
28	0,683	1,113	1,701	2,048	2,467	2,763
29	0,683	1,311	1,699	2,045	2,462	2,756
30	0,683	1,310	1,697	2,042	2,457	2,750
40	0,681	1,303	1,684	2,021	2,423	2,704
60	0,679	1,296	1,671	2,000	2,390	2,660
120	0,677	1,289	1,658	1,908	2,358	2,617
∞	0,674	1,282	1,645	1,960	2,326	2,576

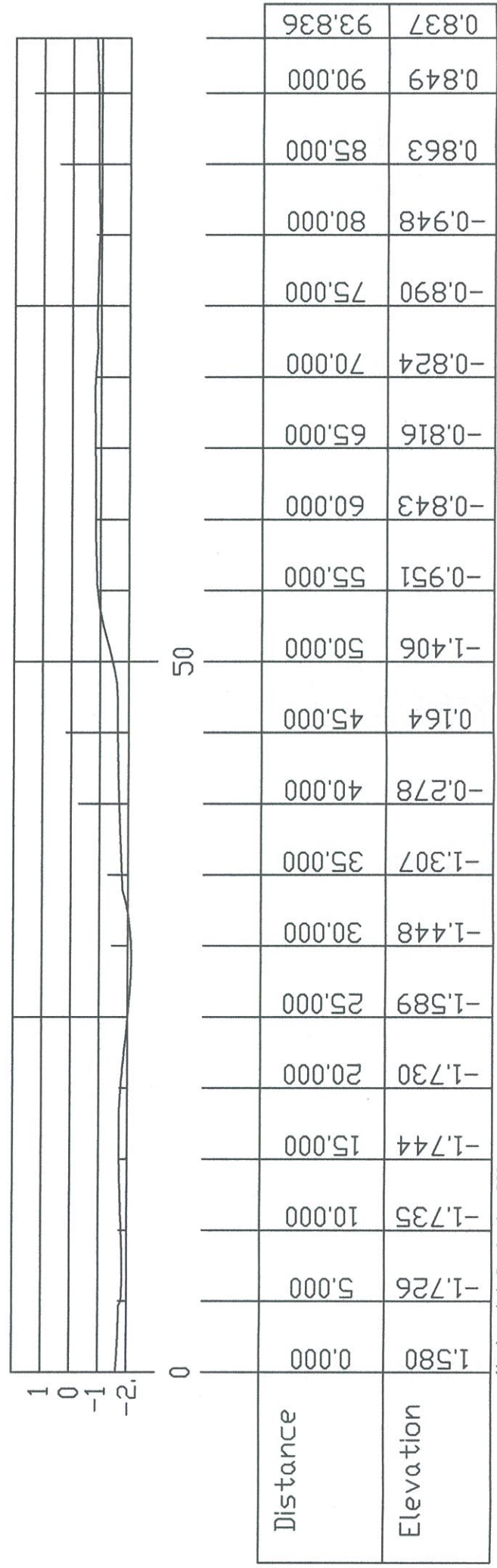


Pekerjaan	
PEMETAAN TANAH	
Lokasi	
EMBUNG NGAWU, PLAYEN, GK	
Diukur Oleh	
TIM LAB UKUR TANAH FAK TEKNIK UNIVERSITAS ATMA JAYA YOGYAKARTA	
KETERANGAN	
Digambar	Skala
 Sudarmaji	A3, 1 : 1000
 PERIKSA OLEH KEPALA LAB. IUT. UAJY  ANGGUN TRI ATMAJAYANTI.,ST.M.Eng	



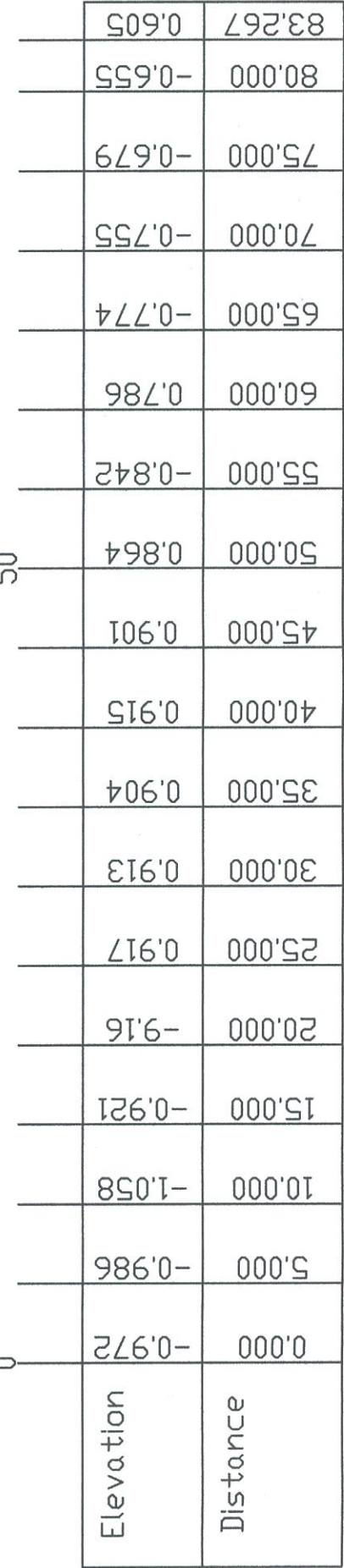


POTONGAN A - A

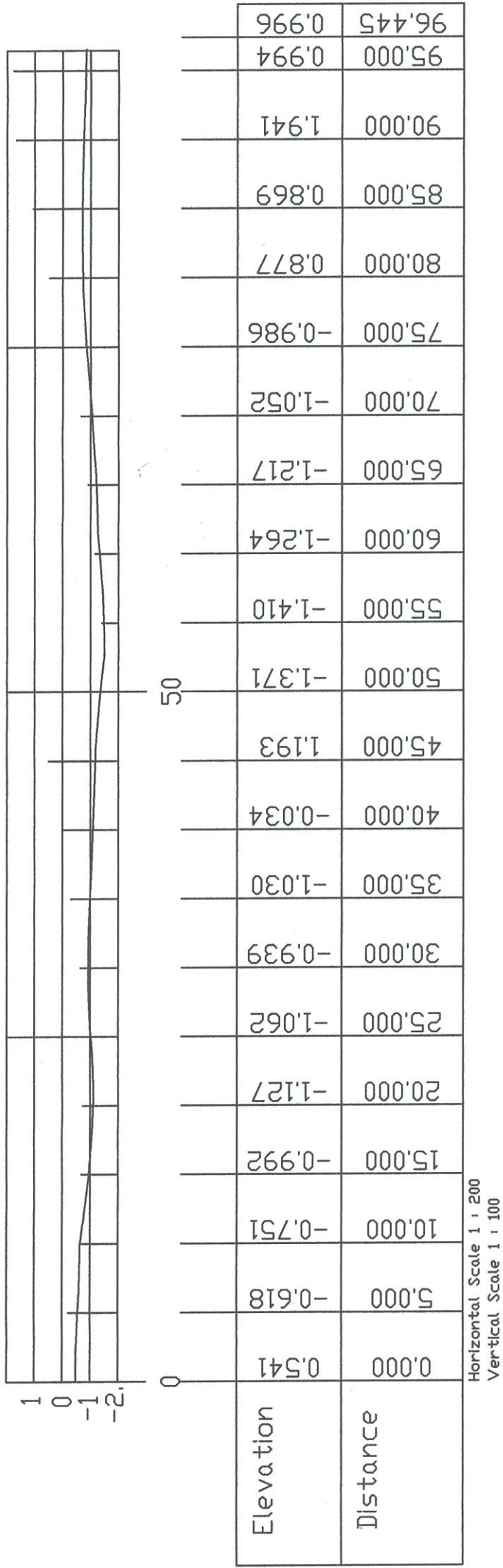


POTONGAN B - B

POTONGAN D - D

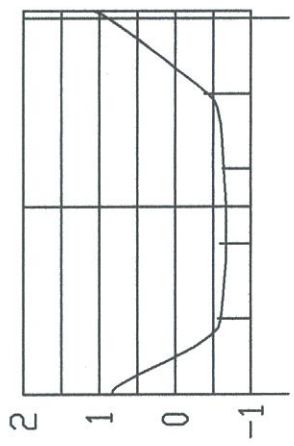


POTONGAN C - C



POTONGAN 6 - 6

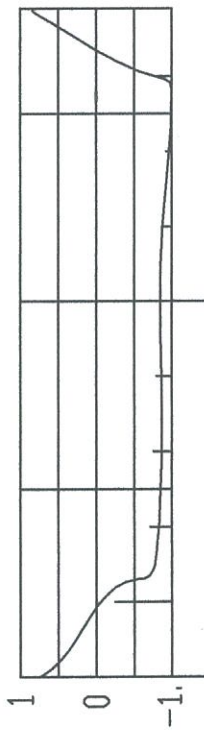
Elevation	0.000	0.828	-0.565	-0.598	-0.630	-0.387	0.939
Distance	0.000	2.000	4.000	6.000	8.000	10.000	



Horizontal Scale 1 : 100
Vertical Scale 1 : 50

POTONGAN 5 - 5

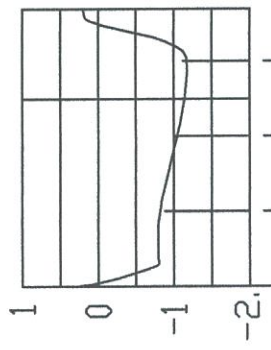
Elevation	0.730	-0.249	-0.713	-0.755	-0.796	-0.838	-0.879	-0.924	-0.802
Distance	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000



Horizontal Scale 1 : 100
Vertical Scale 1 : 50

POTONGAN 4 - 4

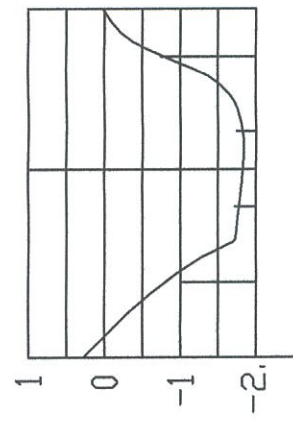
Elevation	0.424	-0.884	-1.005	-1.125
Distance	0.000	2.000	4.000	6.000



Horizontal Scale 1 : 100
Vertical Scale 1 : 50

POTONGAN 3 - 3

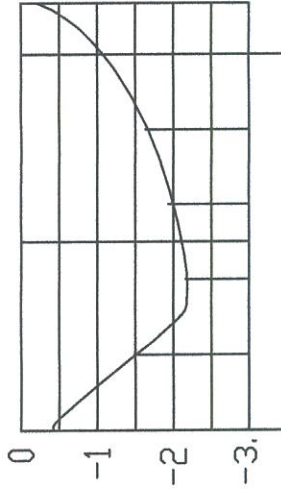
Elevation	0.274	-1.016	-1.722	-1.741	-0.751
Distance	0.000	2.000	4.000	6.000	8.000



Horizontal Scale 1 : 100
Vertical Scale 1 : 50

POTONGAN 2 - 2

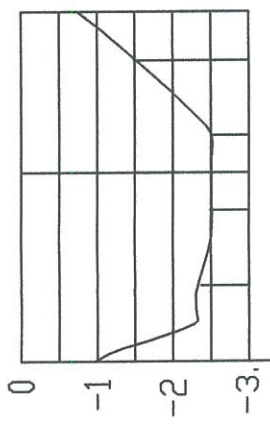
Elevation	0.000	-0.418	-1.490	-2.161	-1.938	-1.637	-0.830
Distance	0.000	2.000	4.000	6.000	8.000	10.000	



Horizontal Scale 1 : 100
Vertical Scale 1 : 50

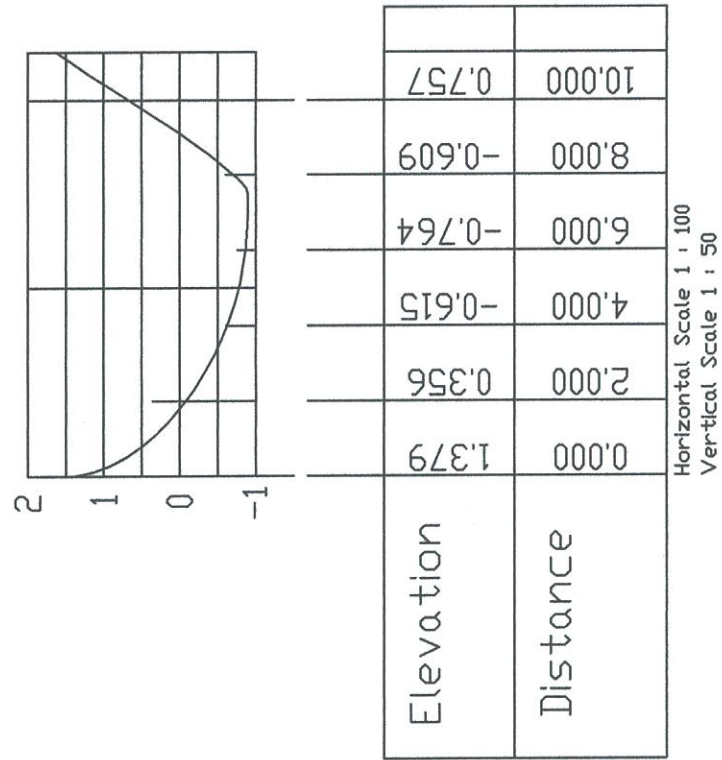
POTONGAN 1 - 1

Elevation	-0.983	-2.374	-2.494	-2.507	-1.489
Distance	0.000	2.000	4.000	6.000	8.000

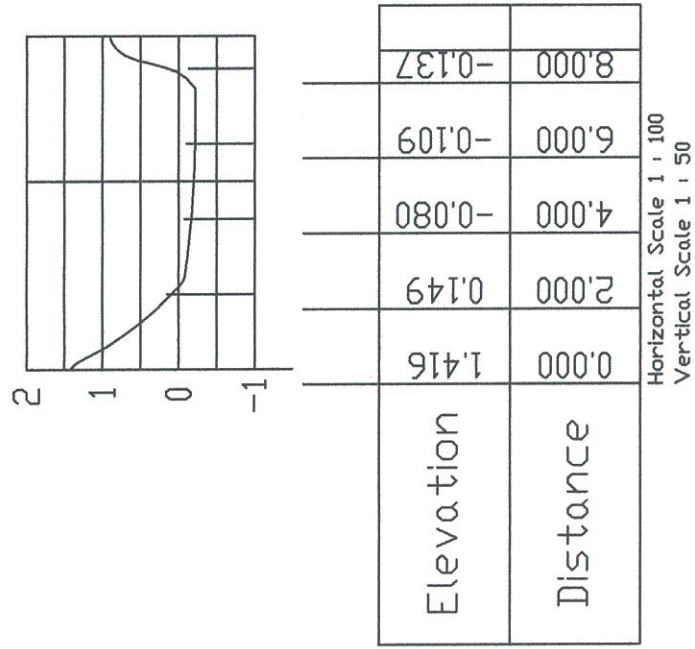


Horizontal Scale 1 : 100
Vertical Scale 1 : 50

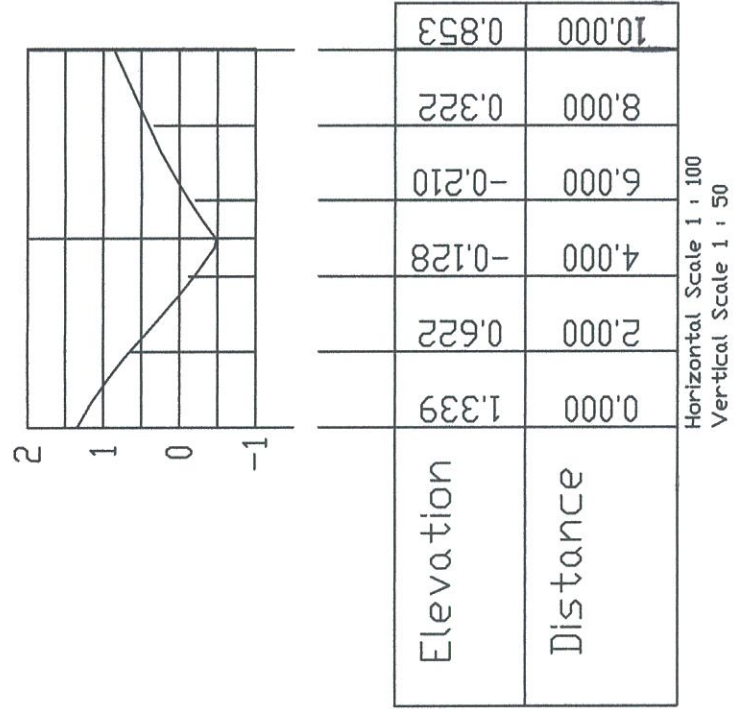
POTONGAN 7 - 7



POTONGAN 8 - 8

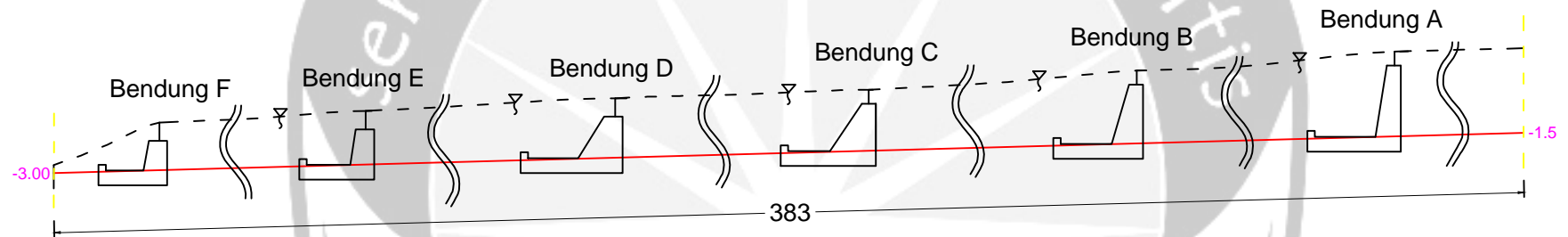


POTONGAN 9 - 9



EMBUNG MEMANJANG

Tipe Bendung Peluap Ambang Lebar



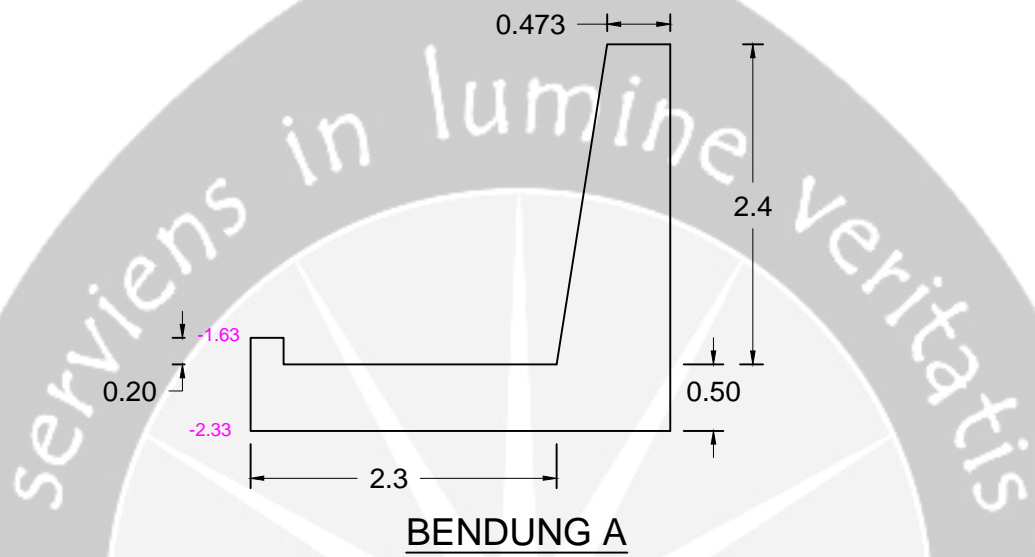
POTONGAN MEMANJANG

Satuan : Meter (m)

— : Dasar saluran

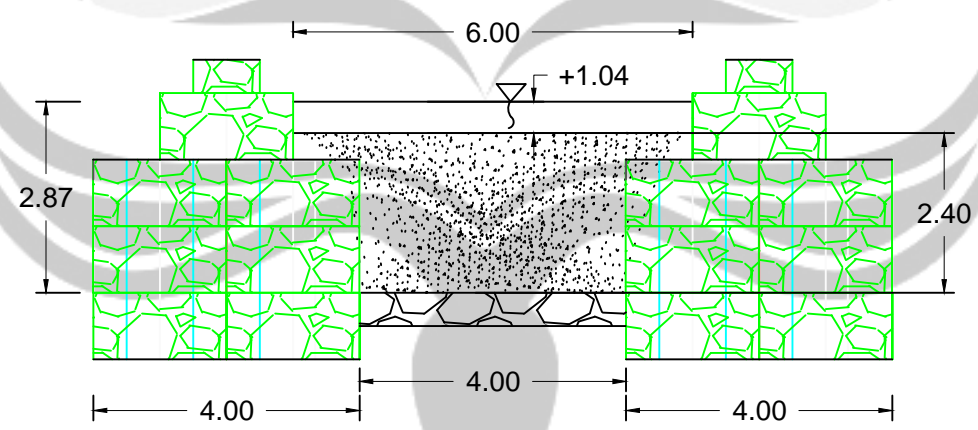
- - : Muka air

Skala (1 : 200)



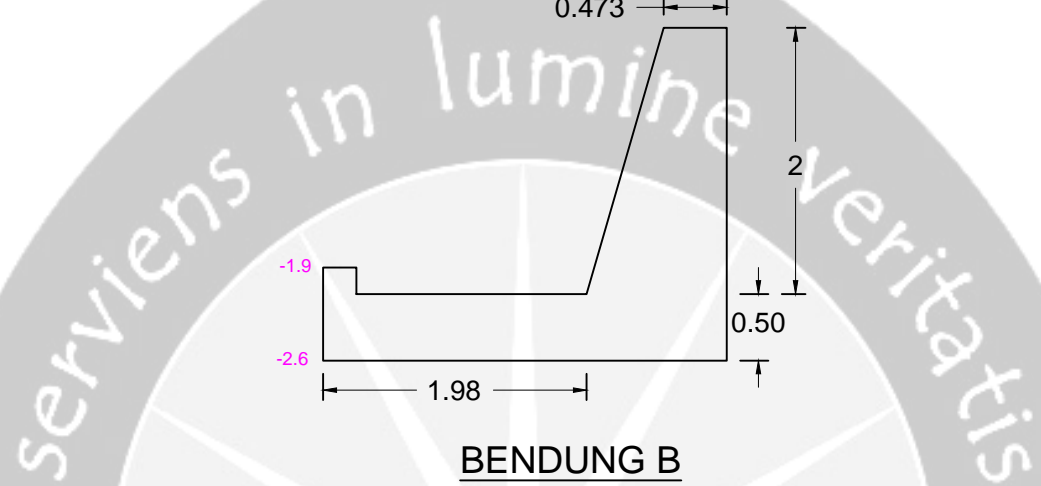
Satuan : Meter (m)
 Skala (1 : 50)

BENDUNG A

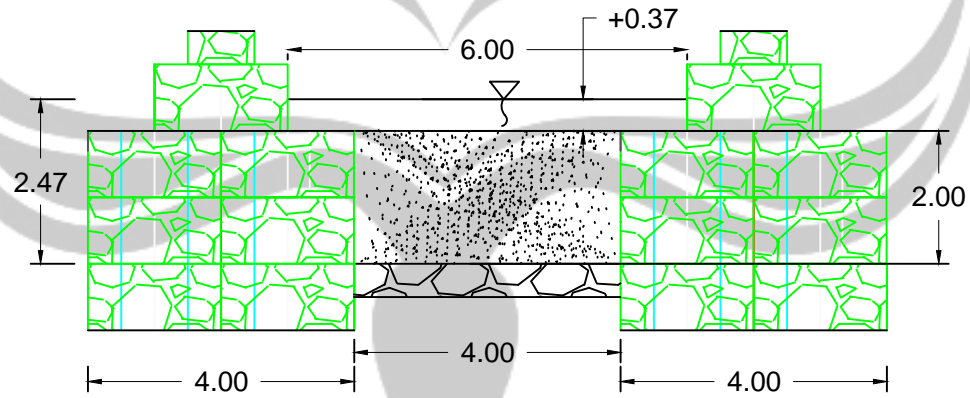


Satuan : Meter (m)
 Skala (1 : 100)

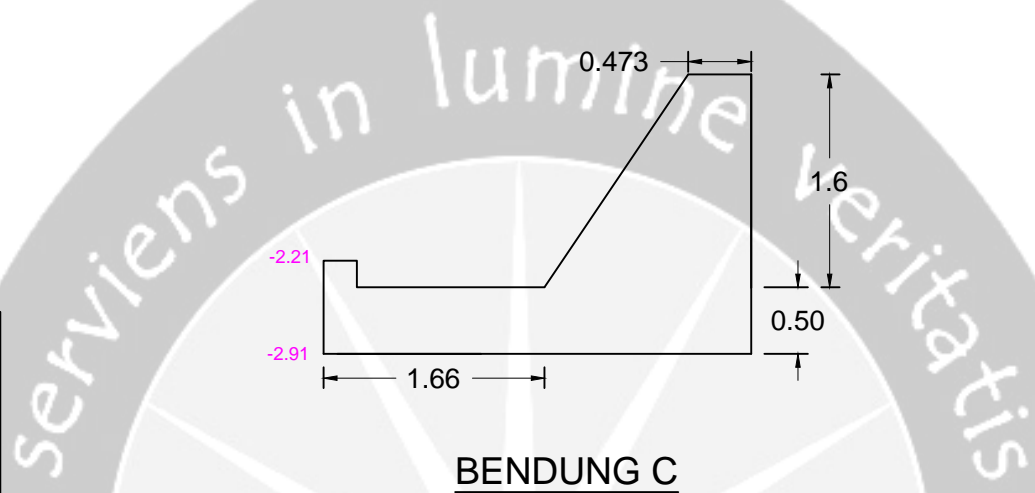
POTONGAN 1-1



Satuan : Meter (m)
 Skala (1 : 50)

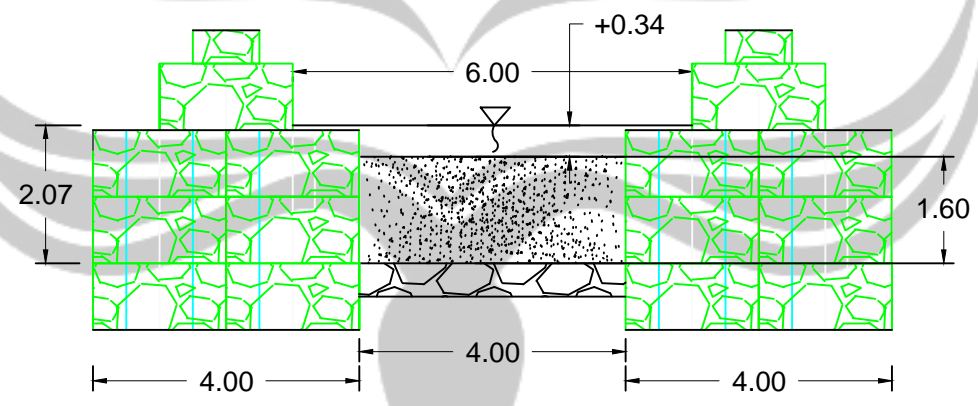


Satuan : Meter (m)
 Skala (1 : 100)



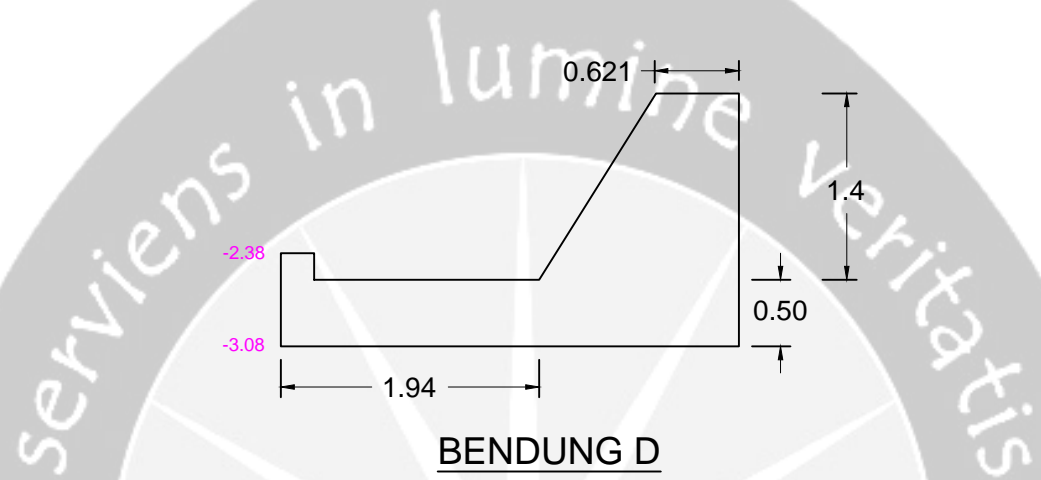
Satuan : Meter (m)
Skala (1 : 50)

BENDUNG C

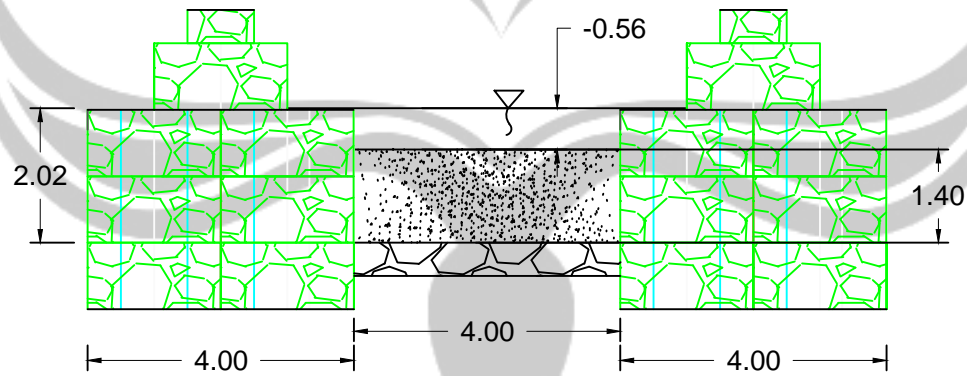


Satuan : Meter (m)
Skala (1 : 100)

POTONGAN 3-3

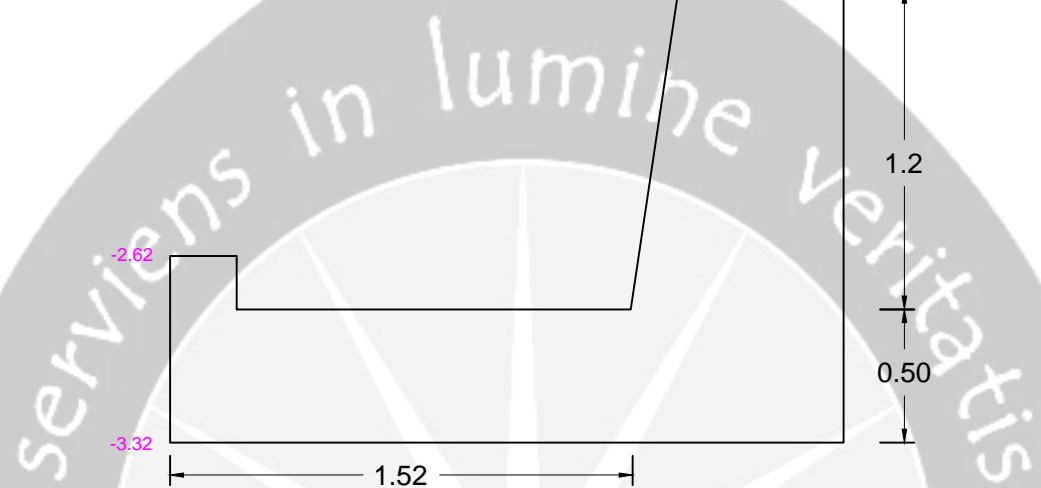


Satuan : Meter (m)
Skala (1 : 50)



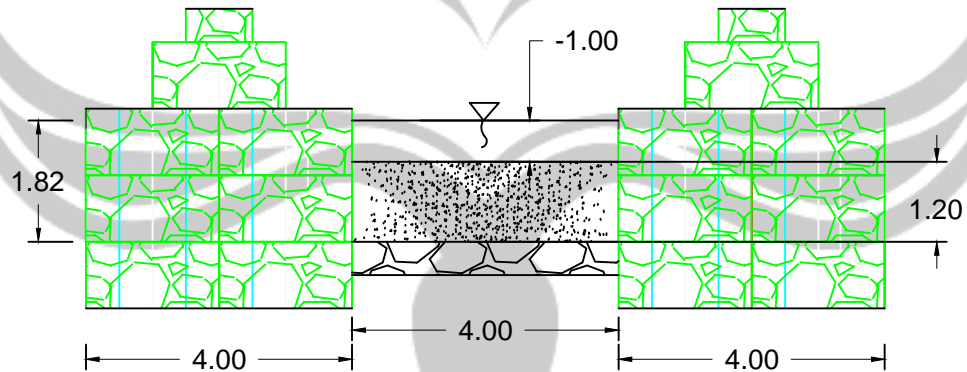
Satuan : Meter (m)
Skala (1 : 100)

POTONGAN 4-4



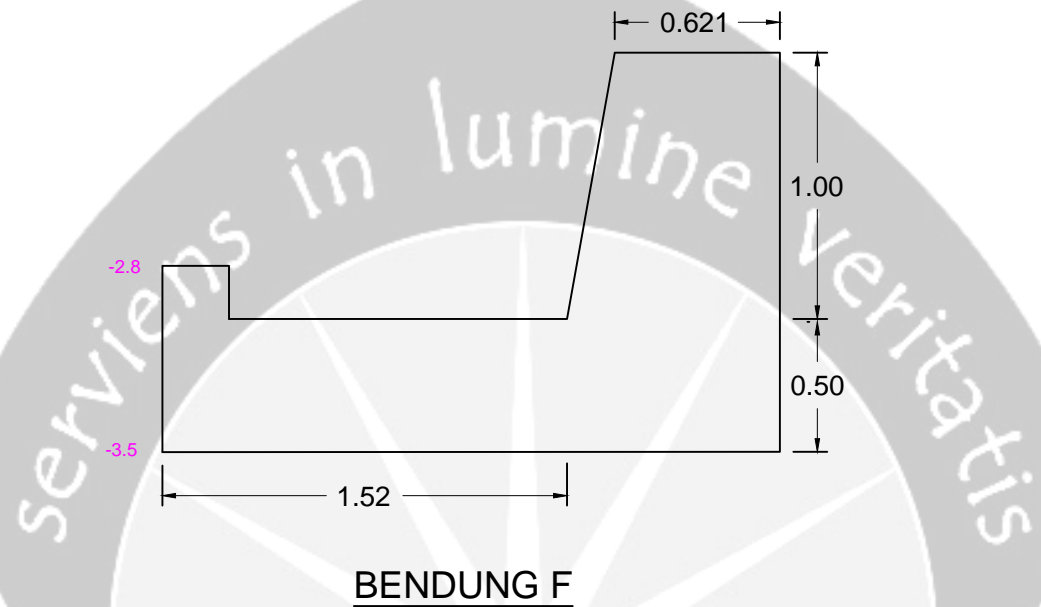
Satuan : Meter (m)
 Skala (1 : 25)

BENDUNG E

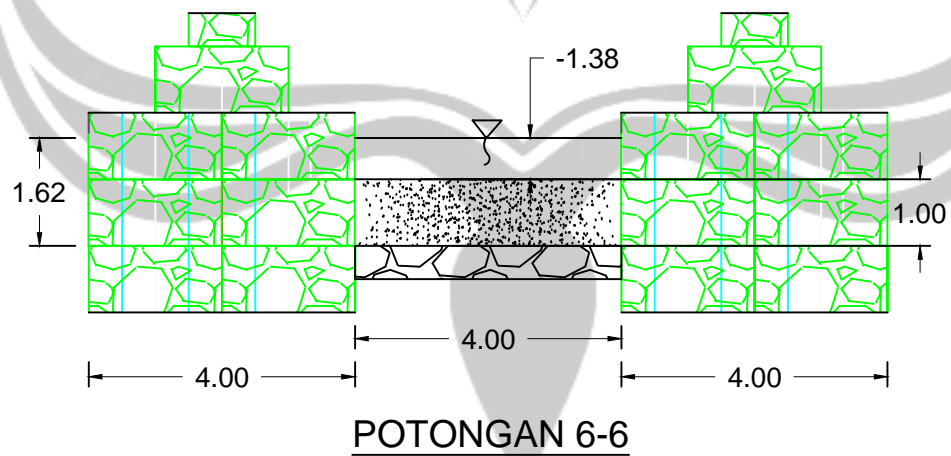


Satuan : Meter (m)
 Skala (1 : 100)

POTONGAN 5-5



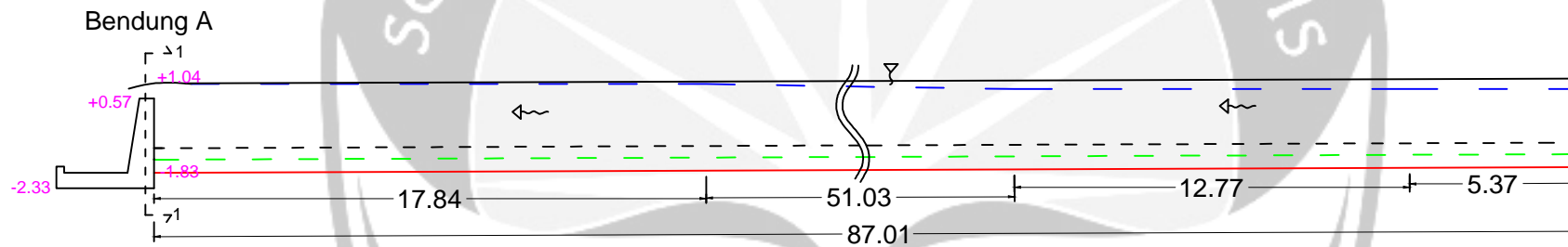
Satuan : Meter (m)
 Skala (1 : 25)



Satuan : Meter (m)
 Skala (1 : 100)

Profil Muka Air

Segmen 1



Volume : 904.8 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

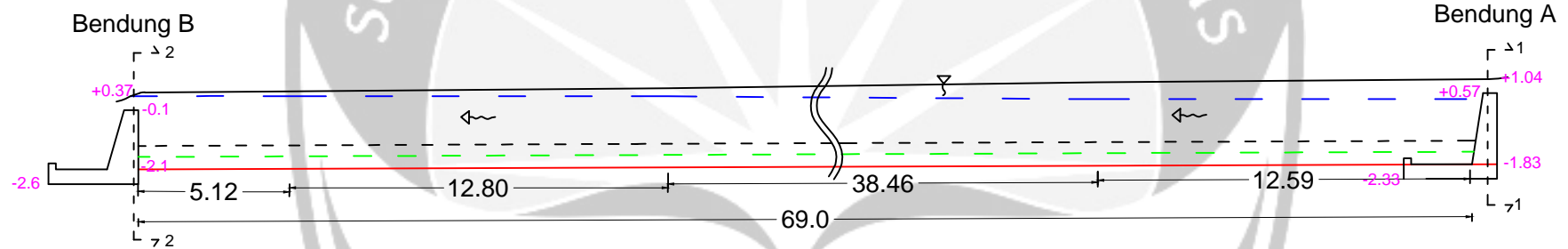
- - - : Muka air kritik sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

Profil Muka Air

Segmen 2



Volume : 634.8 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

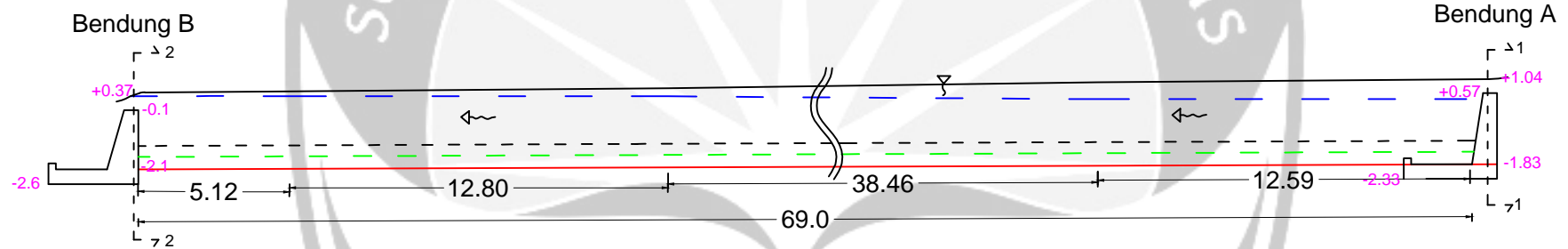
- - - : Muka air kritik sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

Profil Muka Air

Segmen 2



Volume : 634.8 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

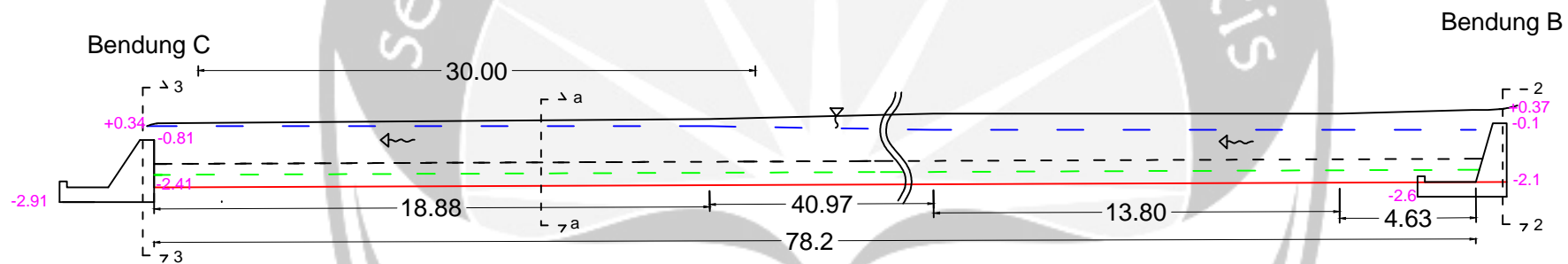
- - - : Muka air kritik sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

Profil Muka Air

Segmen 3



Volume : 1031.2 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

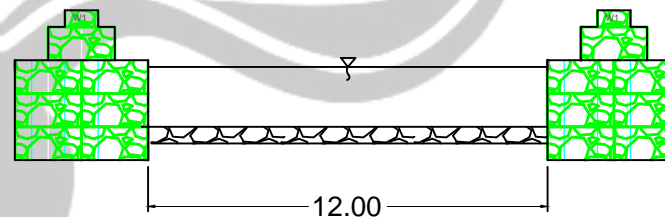
- - - : Muka air normal sebelum bendung

- - - : Muka air kritis sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

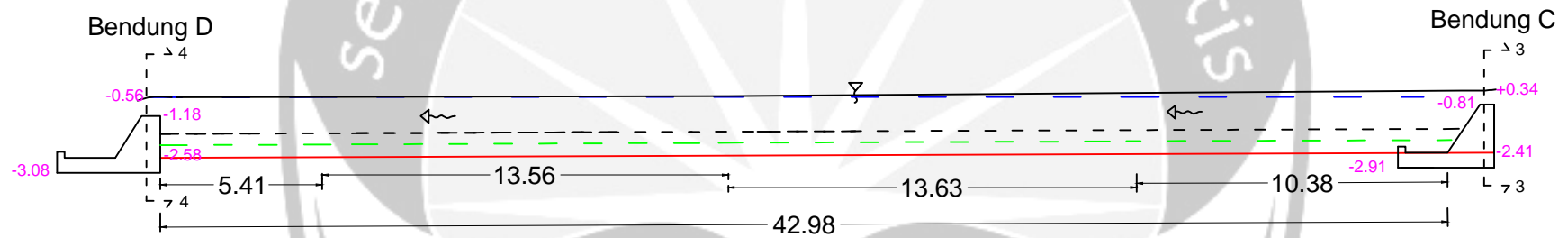
Tampungan Sebelum Perencanaan
Embung Memanjang



POTONGAN a-a

Profil Muka Air

Segmen 4



Volume : 257.99 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

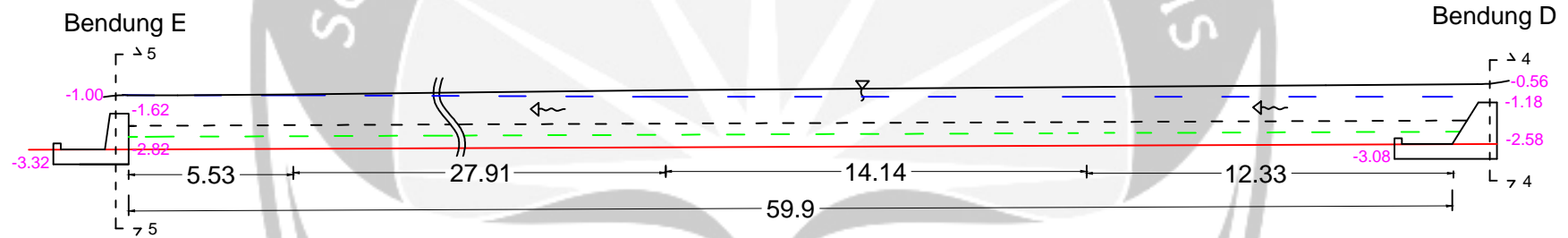
- - - : Muka air kritis sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

Profil Muka Air

Segmen 5



Volume : 315.64 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

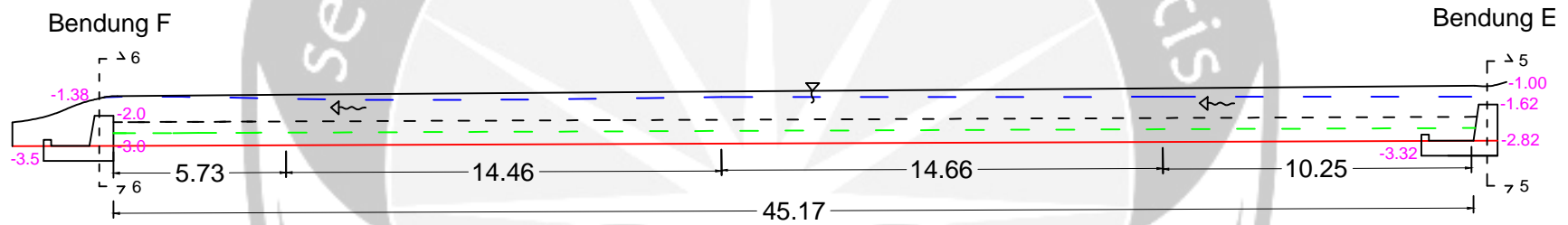
- - - : Muka air kritik sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

Profil Muka Air

Segmen 6



Volume : 199.14 (m³)

Satuan : Meter (m)

— : Dasar saluran

— : Muka air

- - - : Muka air normal sebelum bendung

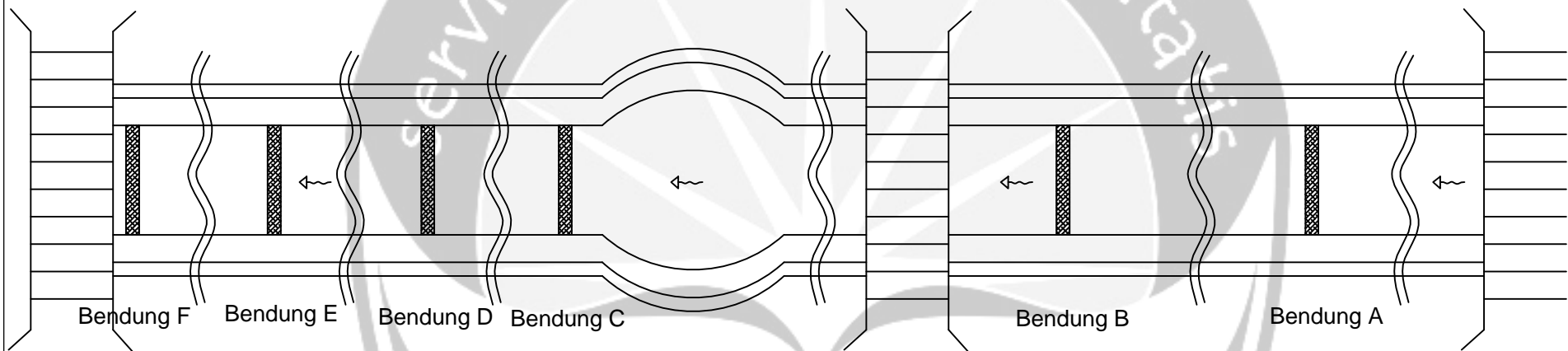
- - - : Muka air kritik sebelum bendung

- - - : Elevasi muka air akibat bendung di hilir

Skala (1 : 200)

EMBUNG MEMANJANG

Tipe Bendung Peluap Ambang Lebar



TAMPAK ATAS

Satuan : Meter (m)

Skala (1 : 200)