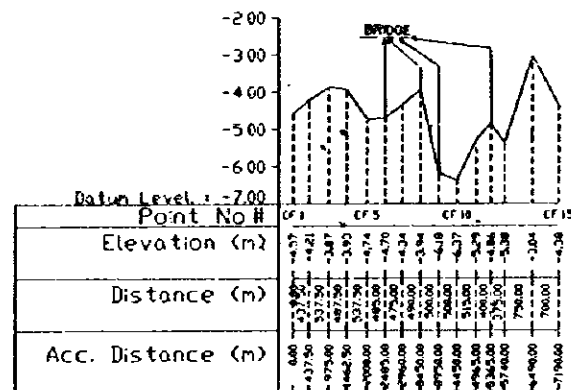
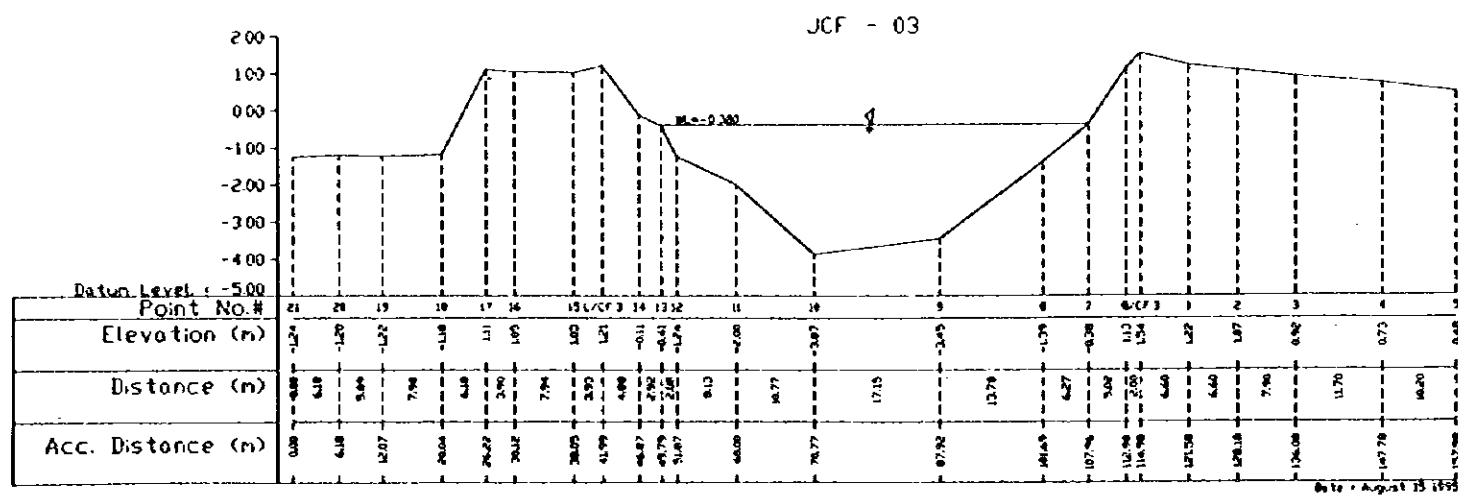
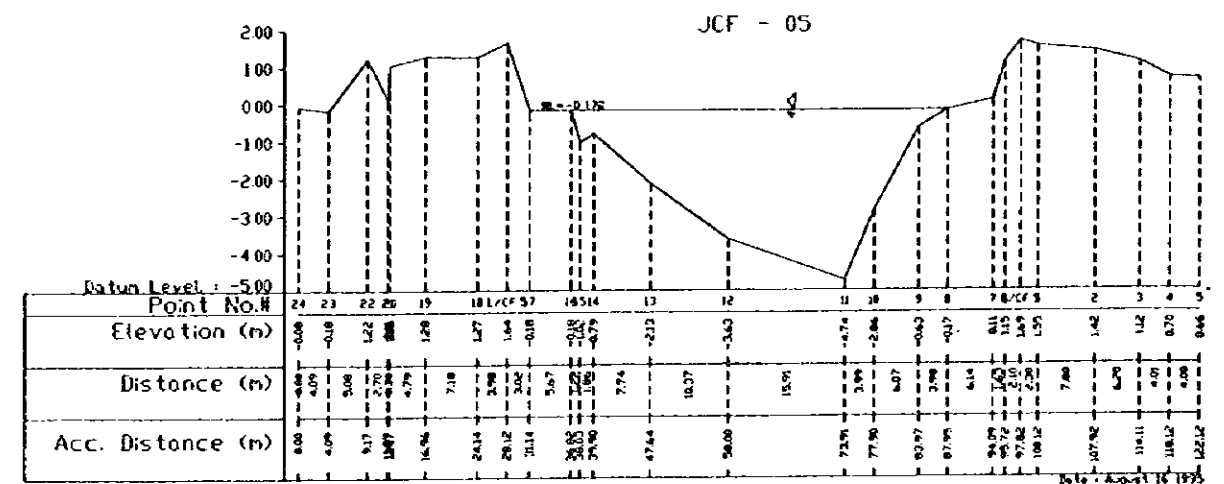
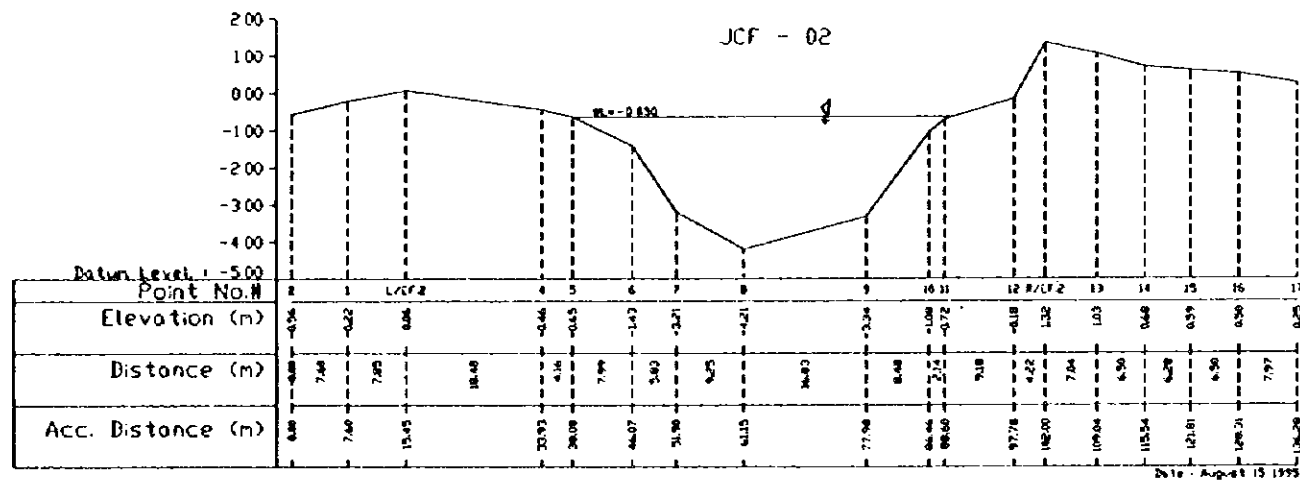
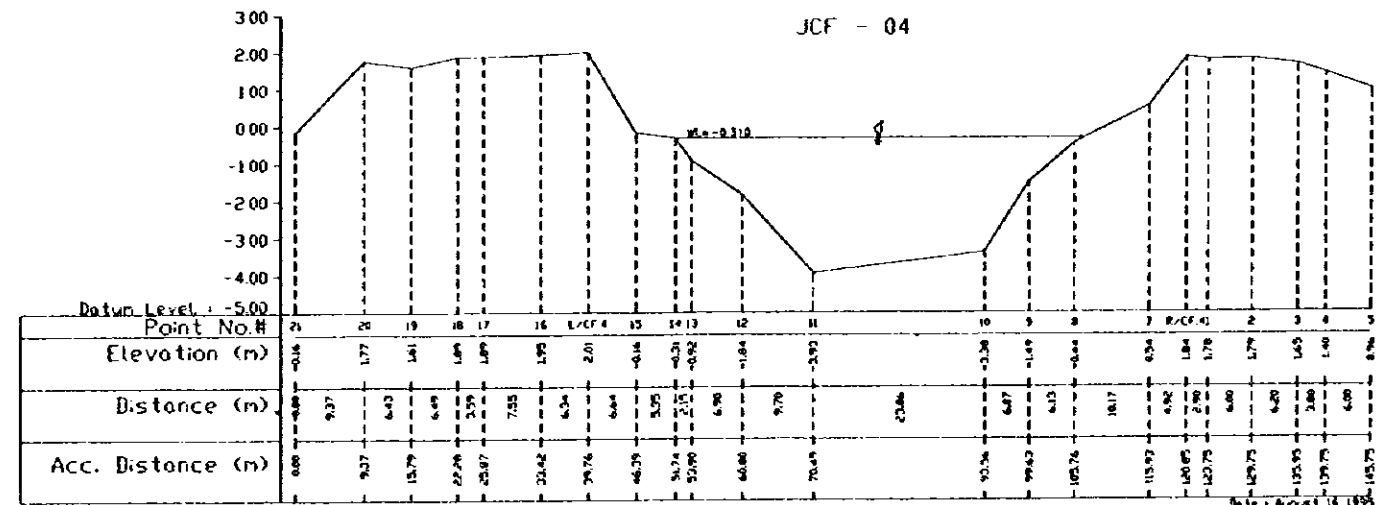
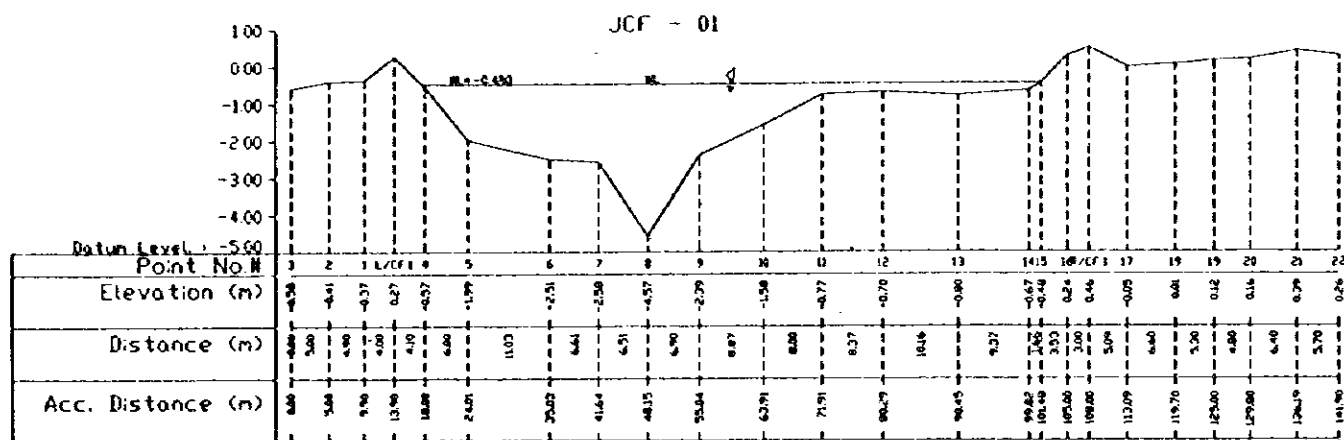


6 River Survey of Cengkareng Floodway System
(Cengkareng Floodway, Mookervaart Canal, Angke, Pesanggrahan and Grogol Rivers)



| | | |
|---|--|--|
| Reference Point : The Elevation is referred to TIG 177 (TIG 177 = 40.136 meters) The correlation between other system are TIG 177 ± 0.0 = NWP - 0.975 meters = PP + _____ meters | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | |
| Name of River : CENKARENG FLOODWAY | | Drawing Title : LONGITUDINAL PROFILE |
| Checked by : Name : <i>BRUNO</i> Signature : <i>[Signature]</i> Date : <i>26.11.11</i> | Approved by : Name : <i>K. TORUWA</i> Signature : <i>[Signature]</i> Date : <i>26.11.11</i> | Scale : Horizontal 1 : 100000 Vertical 1 : 100 Sheet No : 1 of 1 |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WHATMAN & Associates JAKARTA - INDONESIA |



Reference Point:
The Elevation is referred to TIC 177 = 40136 meters
The correlation between other system are:
TIC 177 ± 0 = NGP - 0.975 meters = PP ± . . . meter

(IN METERS)
Scale: 1:100
Horizontal Scale: 1:500
Vertical Scale: 1:100

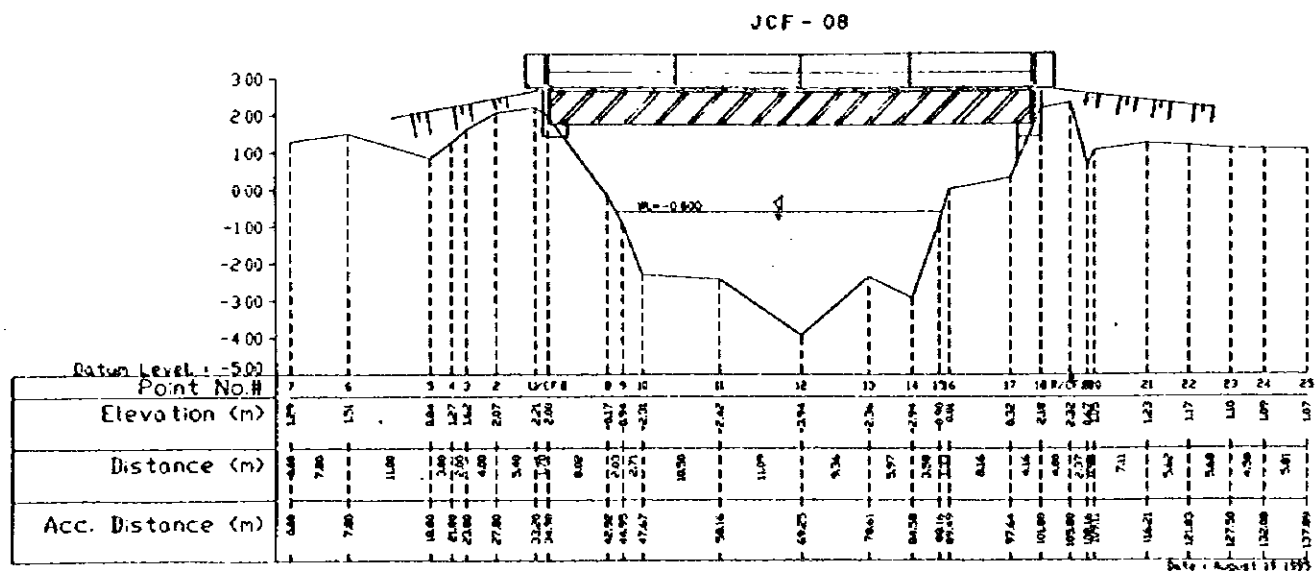
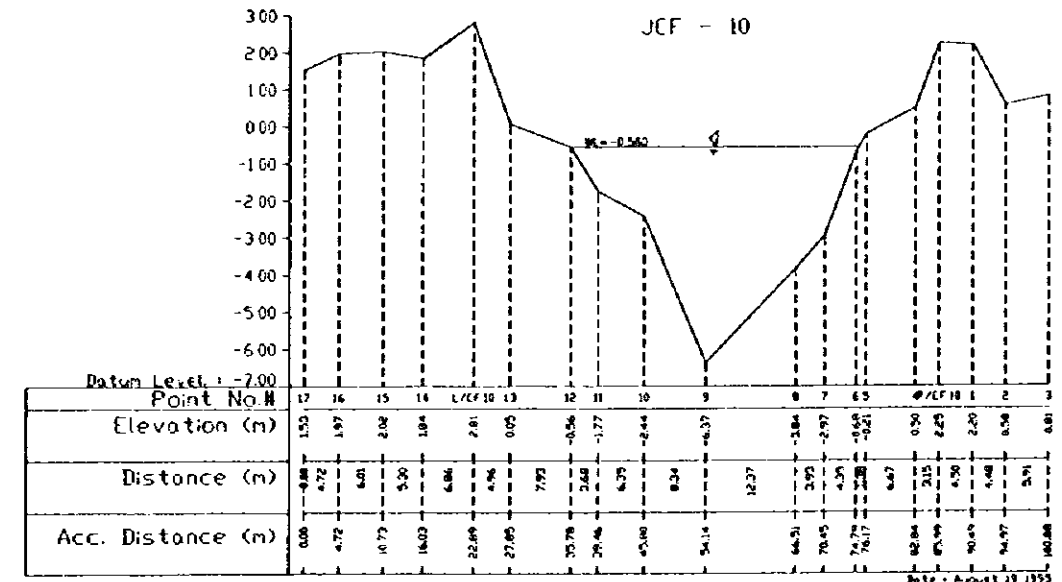
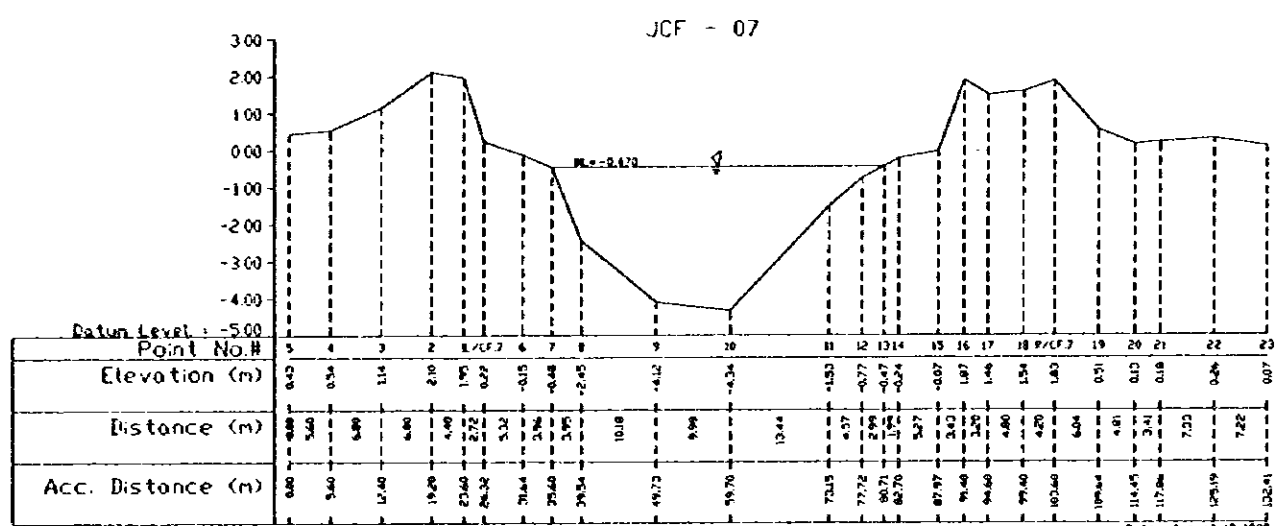
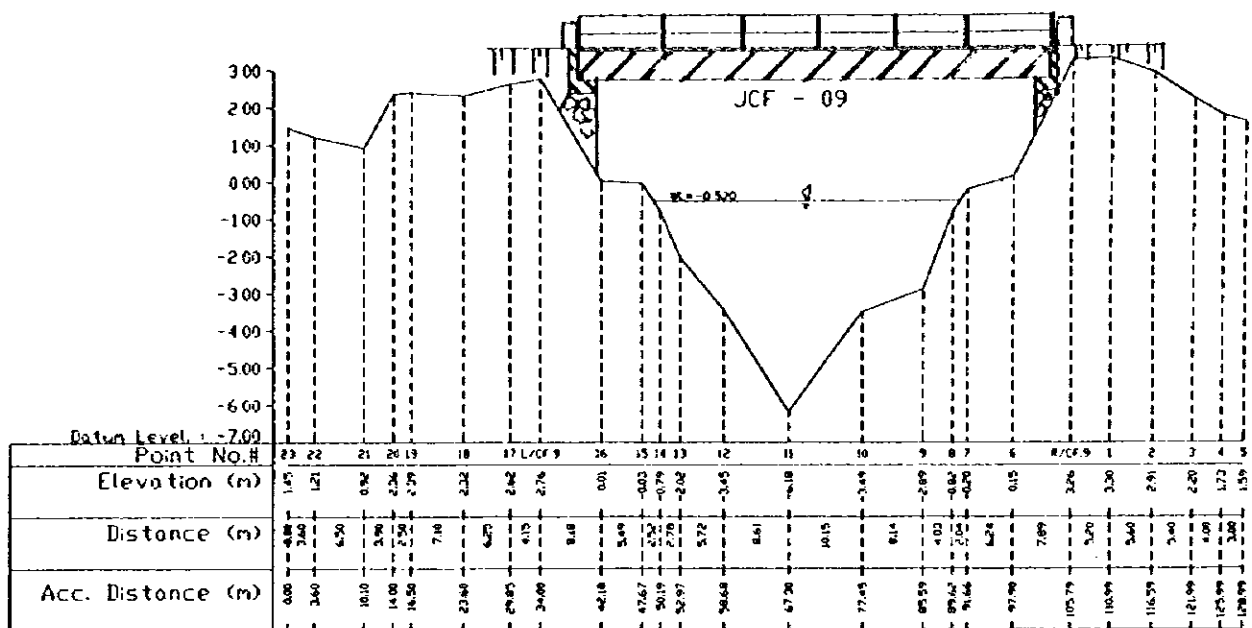
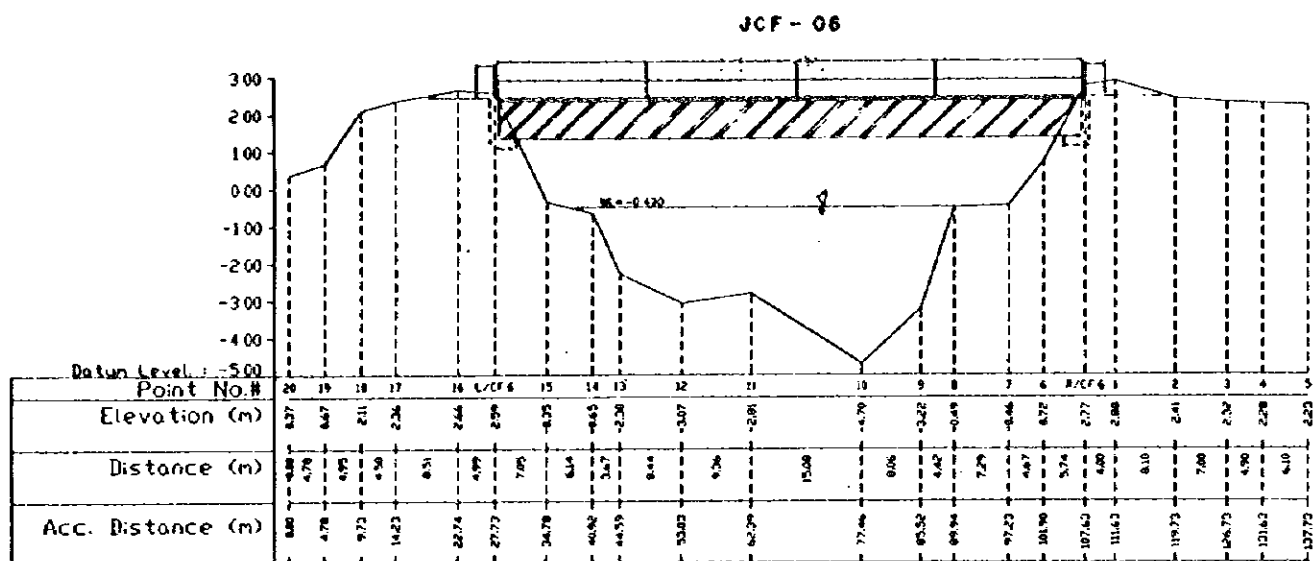
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CENGKARENG FLOODWAY
Drawing Title : CROSS SECTION

| | | | |
|---|--|---|---------------------|
| Checked by Name: B. BOND Signature: [Signature] Date: 11.11.95 | Approved by Name: R. IOWANE Signature: [Signature] Date: 12.11.95 | Scale Horizontal: 1:500 Vertical: 1:100 | Sheet No. 1 of 3 |
|---|--|---|---------------------|

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIDATMAN & Associates
JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to TIG 177 = 40.136 meters
The correlation between other system are:
TIG 177 ± 0 = hWP = 0.975 meters = PP 9

(IN METERS)
1 : 100
1 : 500

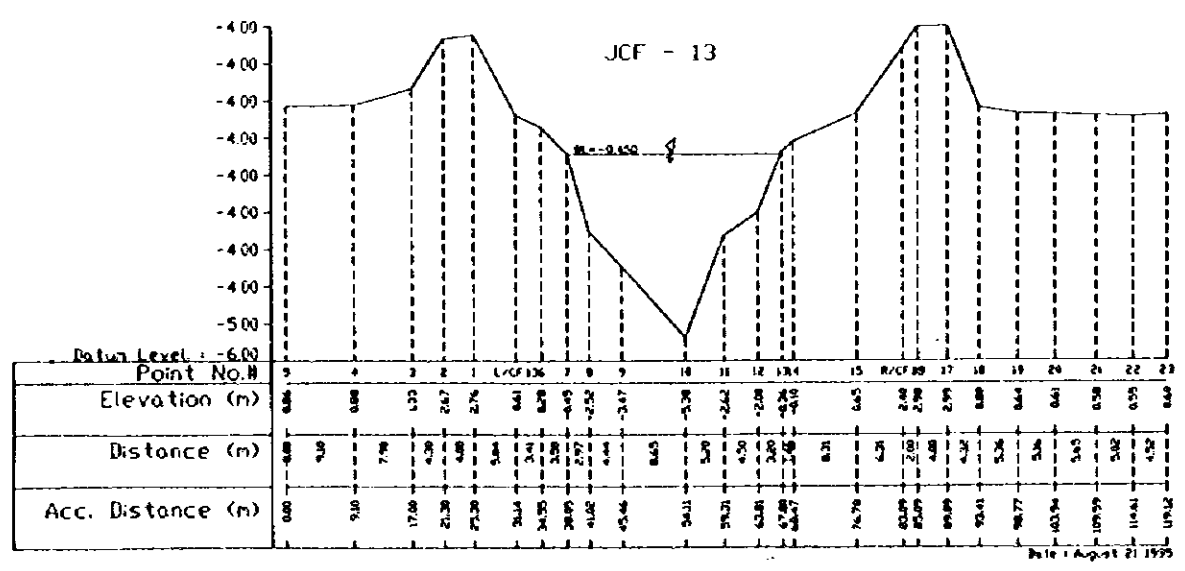
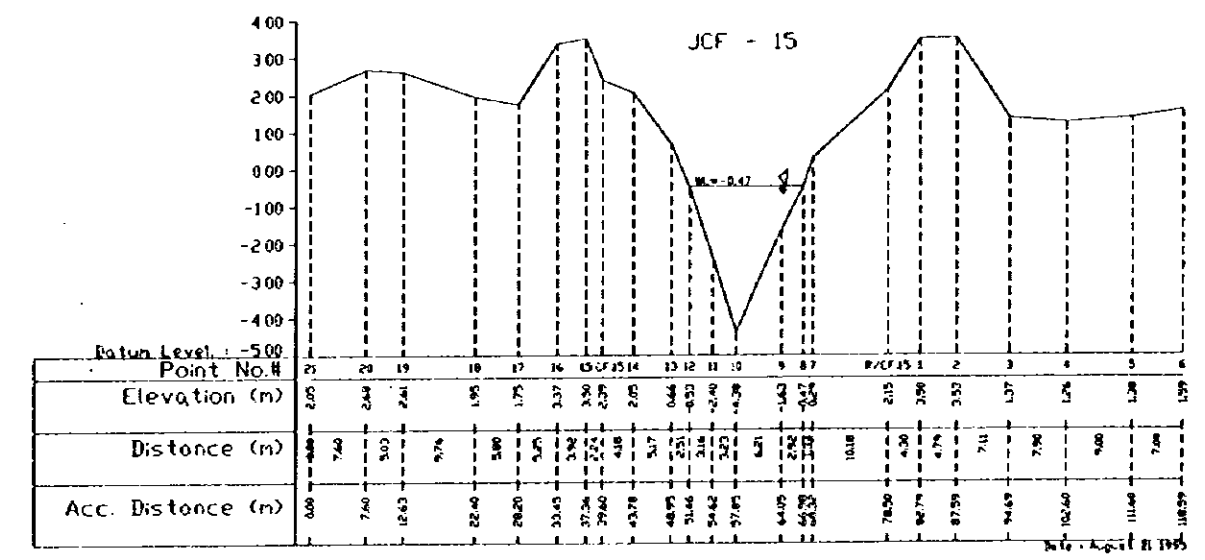
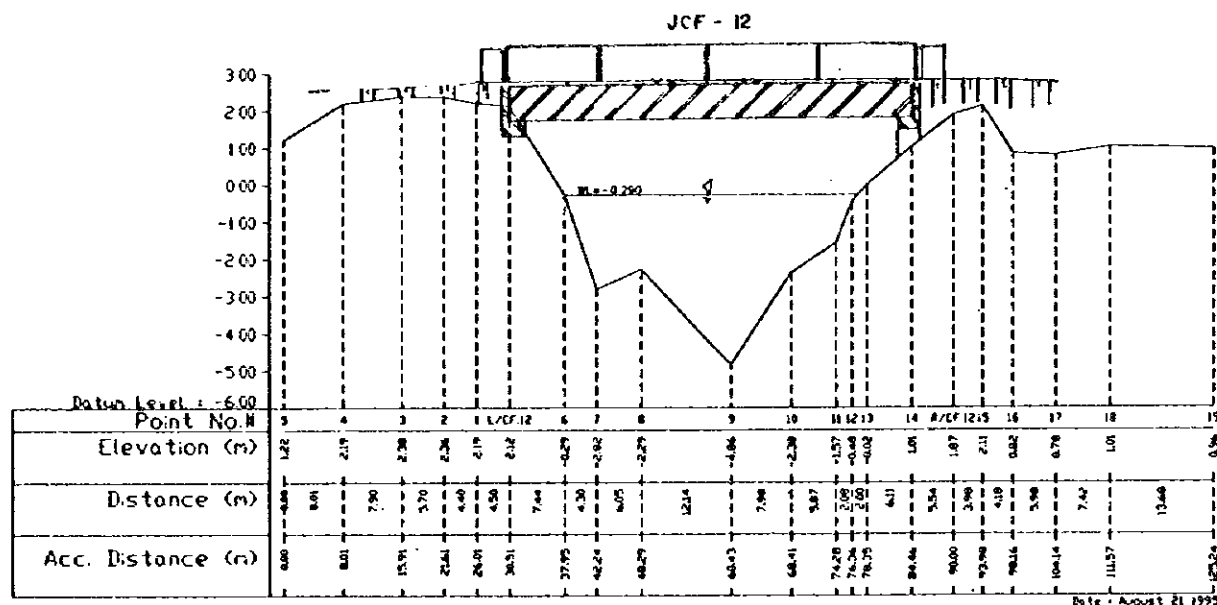
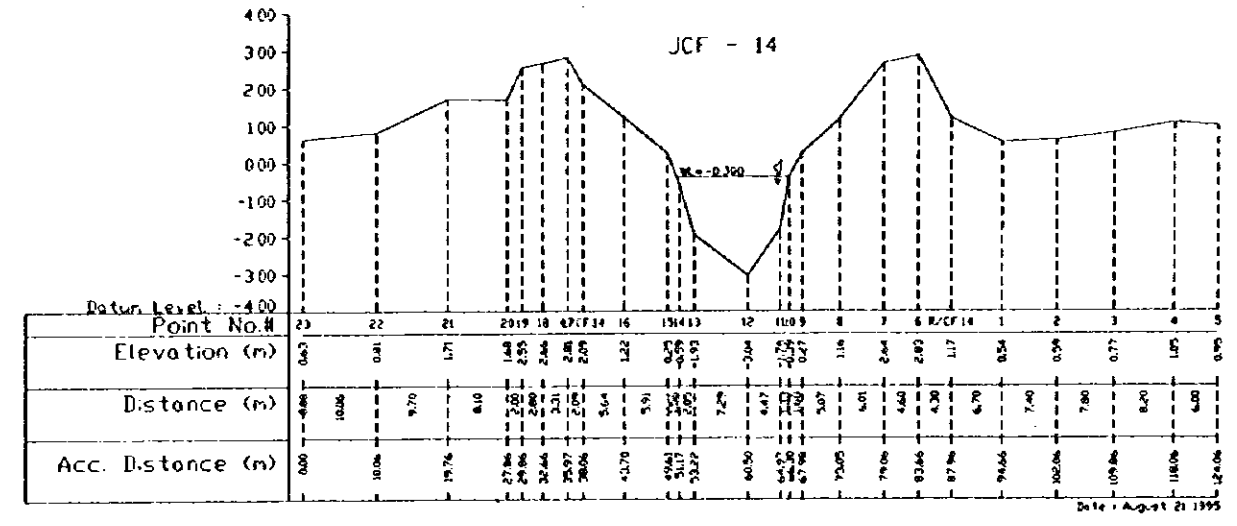
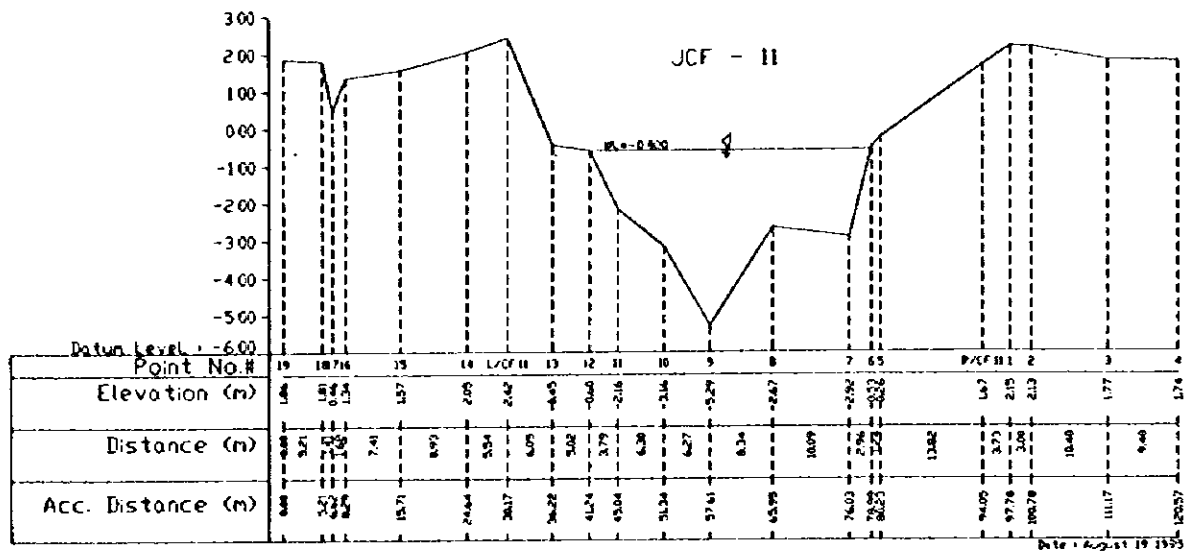
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CENKARENG FLOODWAY** Drawing Title : **CROSS SECTION**

| | | | |
|----------------------|--------------------|--|----------|
| Checked by | Approved by | Scale | Sheet No |
| B. MARDI S. DARTO | T. MAN R. KAMAR | Horizontal 1 : 500 Vertical 1 : 100 | 2 of 3 |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITC 177 = 40.136 meters
 The correlation between other systems are
 ITC 177 ± 0 = NWP = 0.975 meters = PP ± meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

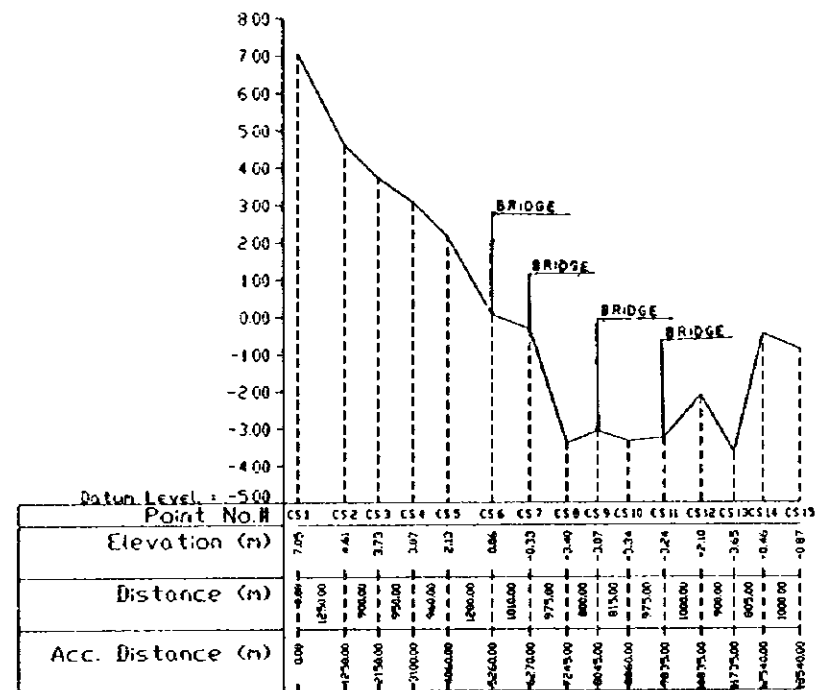
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CENGKARENG FLOODWAY
 Drawing Title : CROSS SECTION

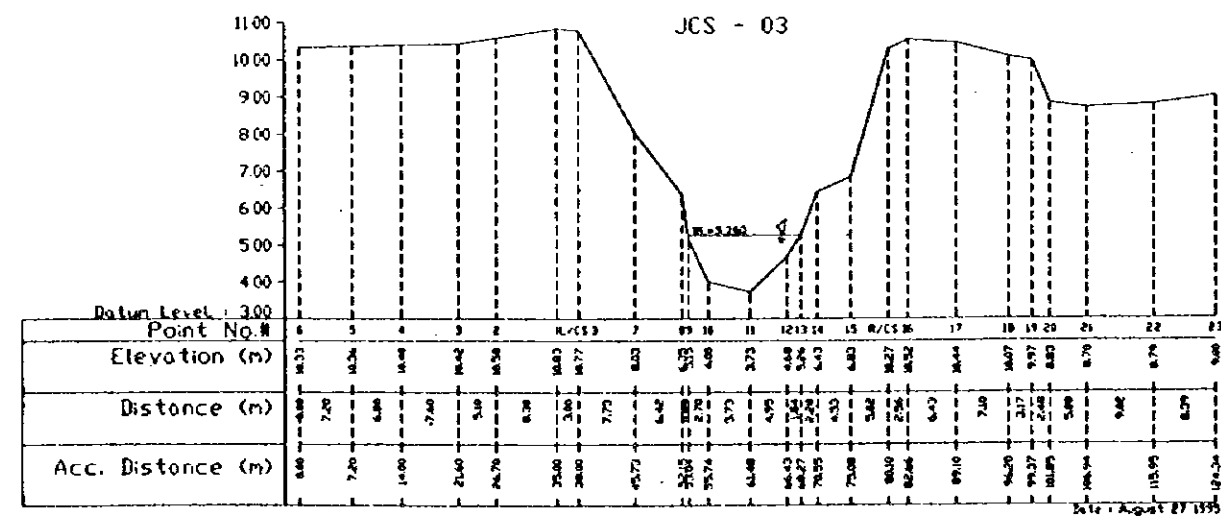
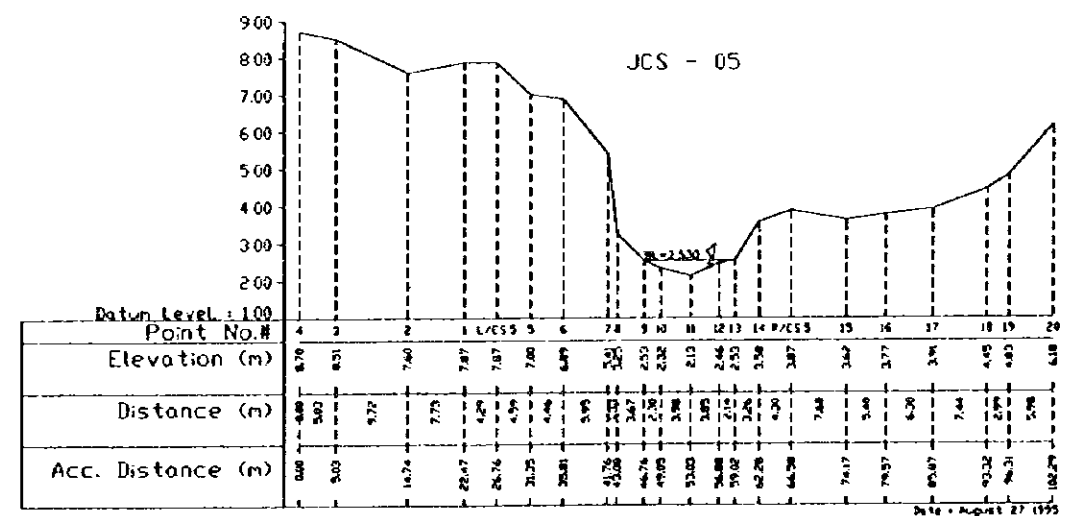
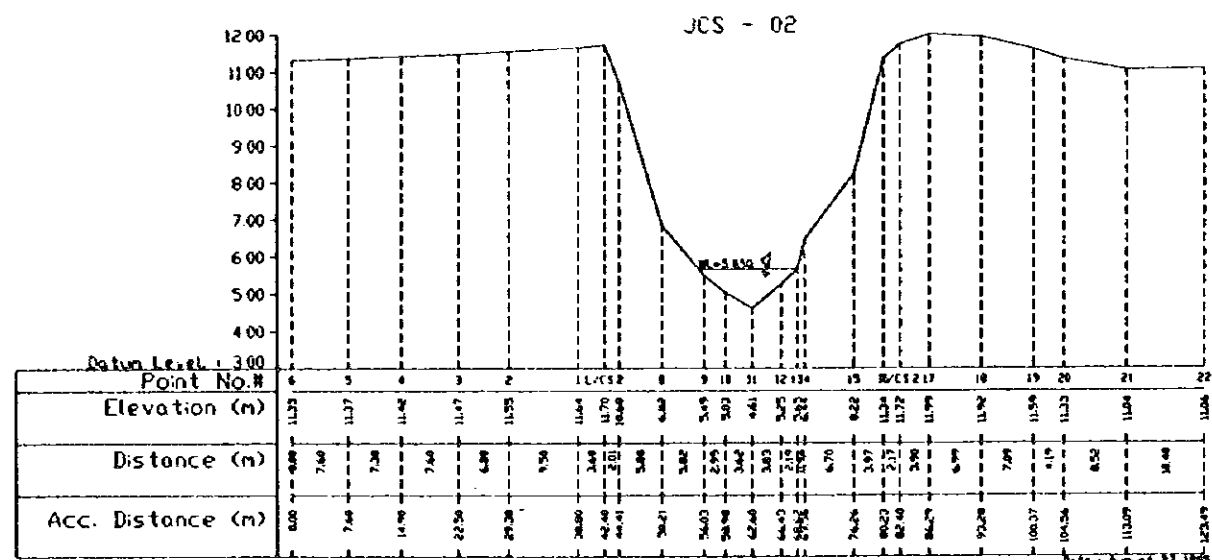
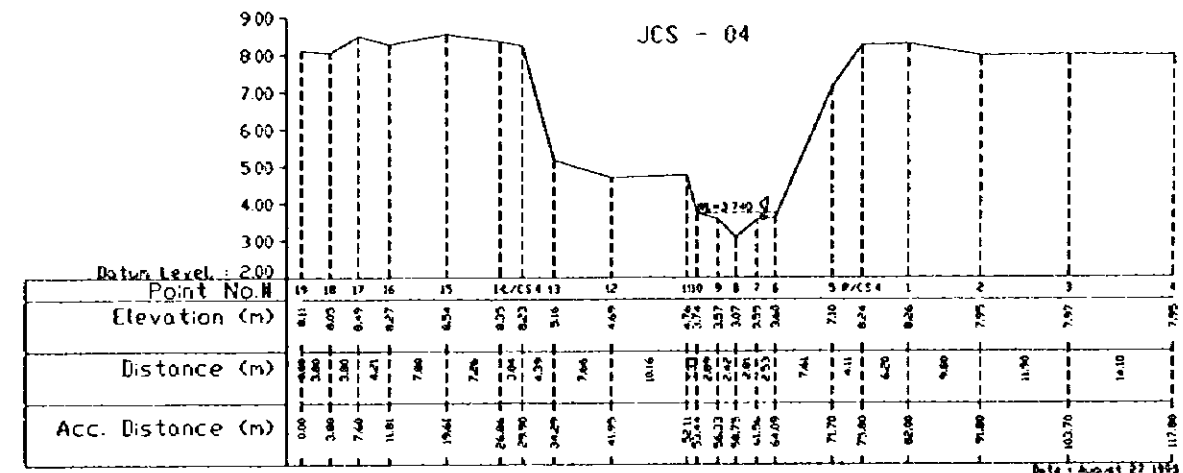
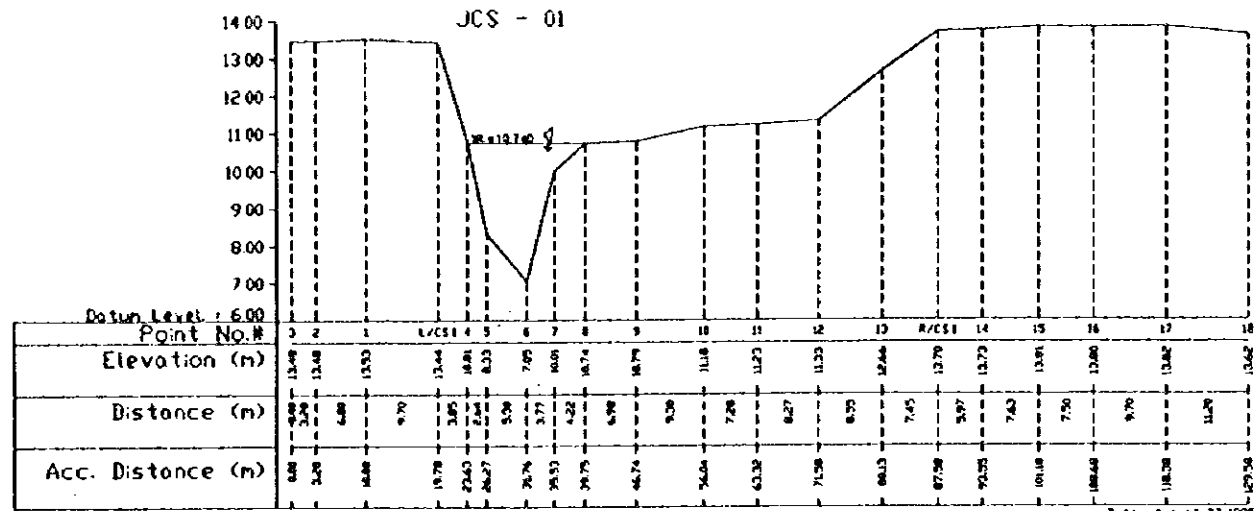
Checked by : [Signature]
 Approved by : [Signature]

Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No. : 3 of 3

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates JAKARTA - INDONESIA



| | | | |
|--|--------------------------------------|--|----------|
| Reference Point : The Elevation is related to TIG 177 (TIG 177 = 40.138 meters) The correlation between other system are : TIG 177 ± 0.0 = NWP = 0.975 meters = PP ± meters | | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : HOOKERVAART CANAL | | Drawing Title : LONGITUDINAL PROFILE | |
| Checked By | Approved by | Scale | Sheet No |
| None | BRUNO SUCIPTO 1. BAW 2. TORANE | Horizontal 1 : 100000 Vertical 1 : 100 | 1 of 1 |
| Date | 24.11.21 26.11.21 26.11.21 | | |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WHATMAN & Associates JAKARTA - INDONESIA | |



Reference Point:
 The Elevation is referred to FIG 177 = 40.136 meters
 The correlation between other system are:
 FIG 177 ± 0 = NVP - 0.875 meters = PP ± meter

(IN METERS)
 1:100
 0 10 20 30 40 50 60 70 80 90 100

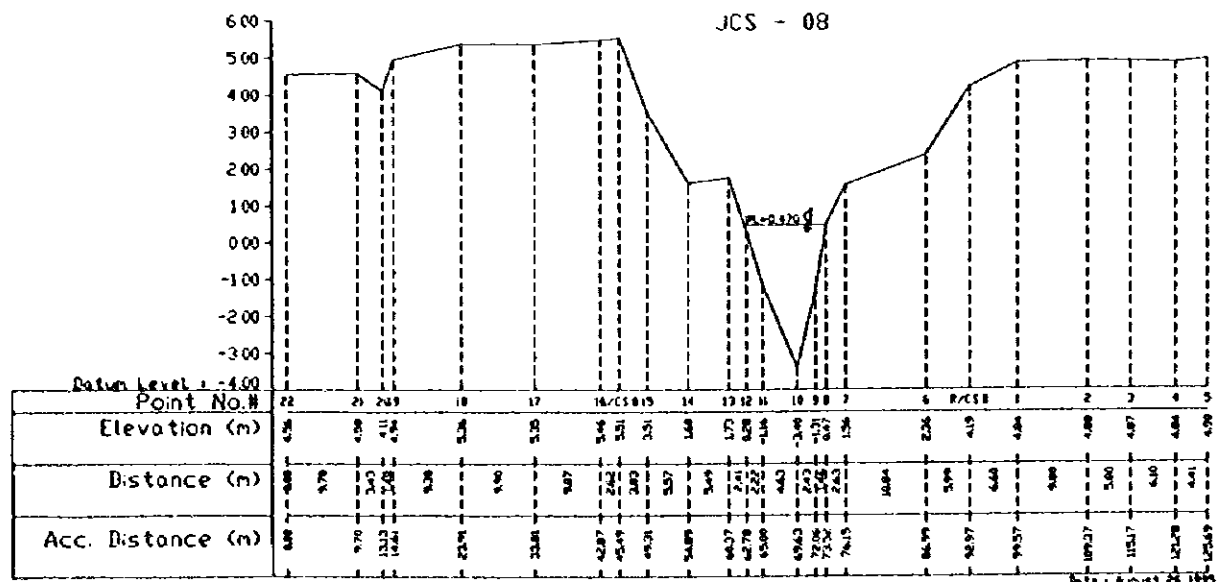
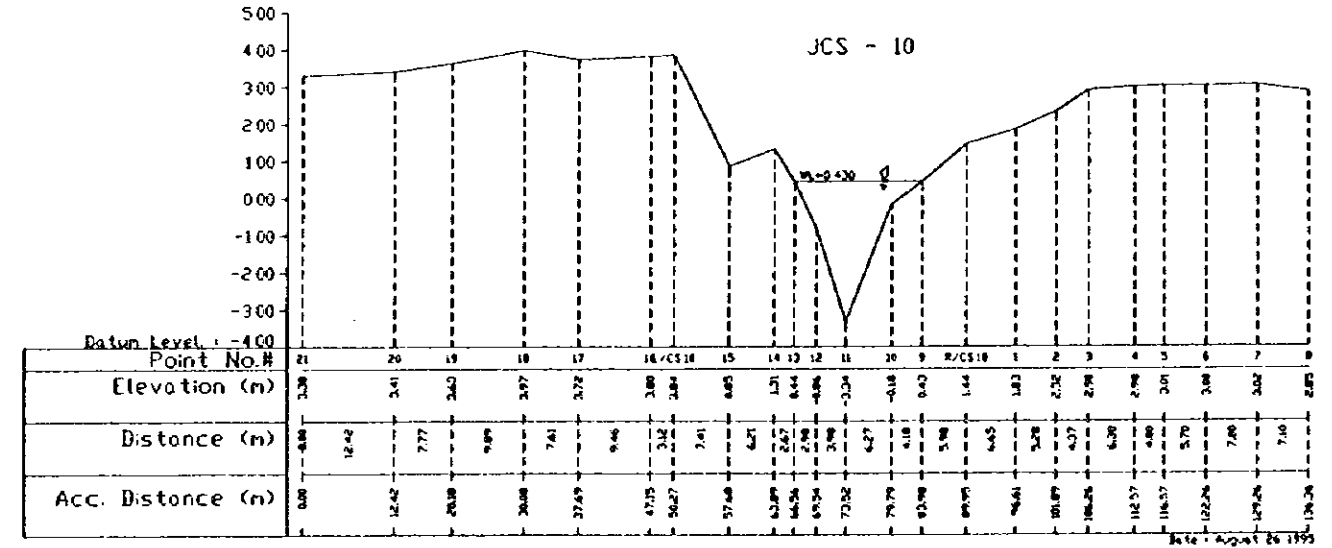
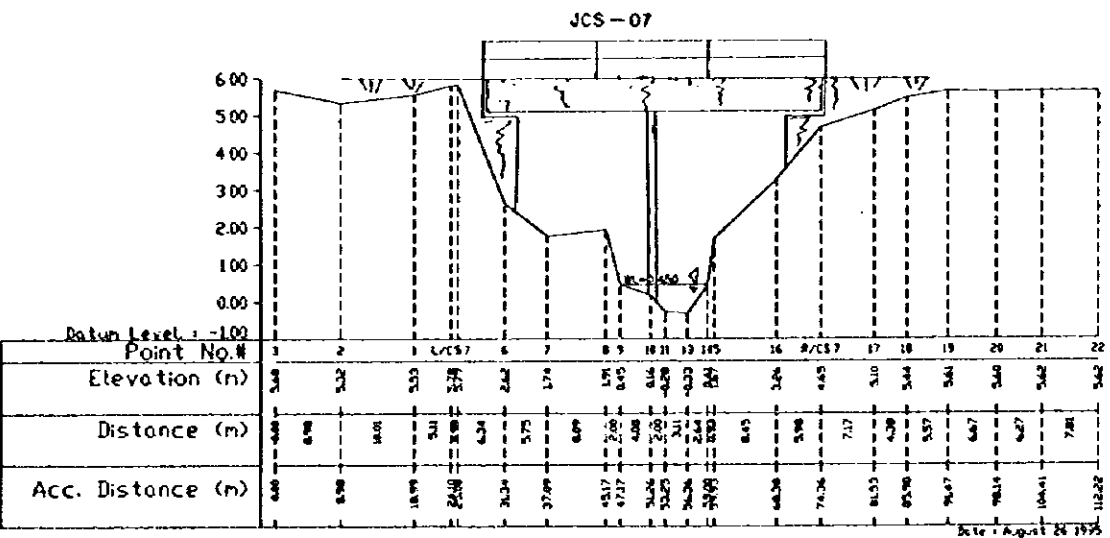
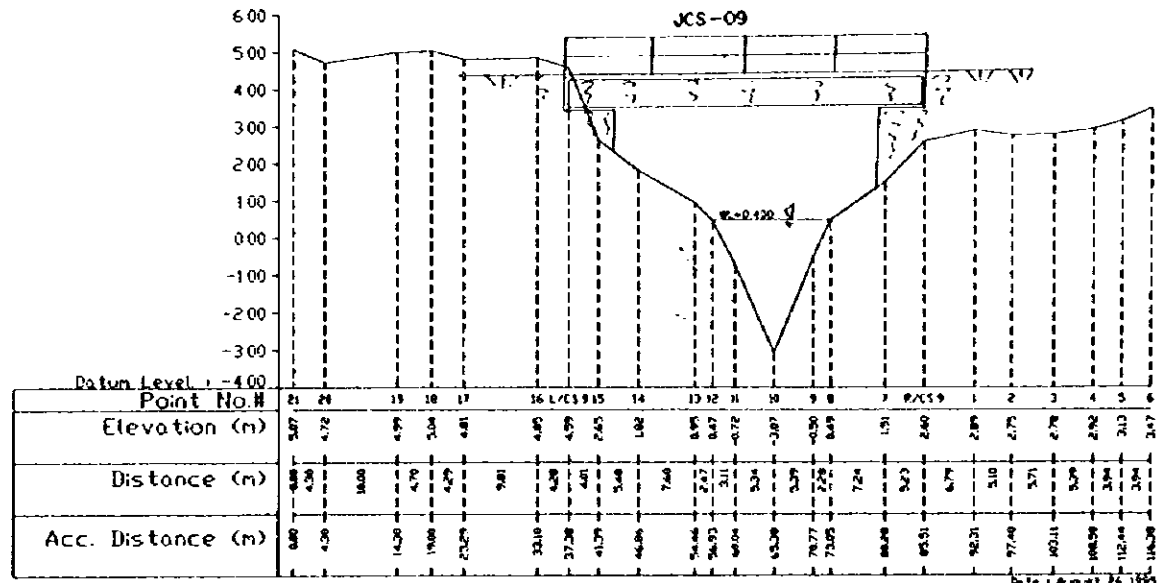
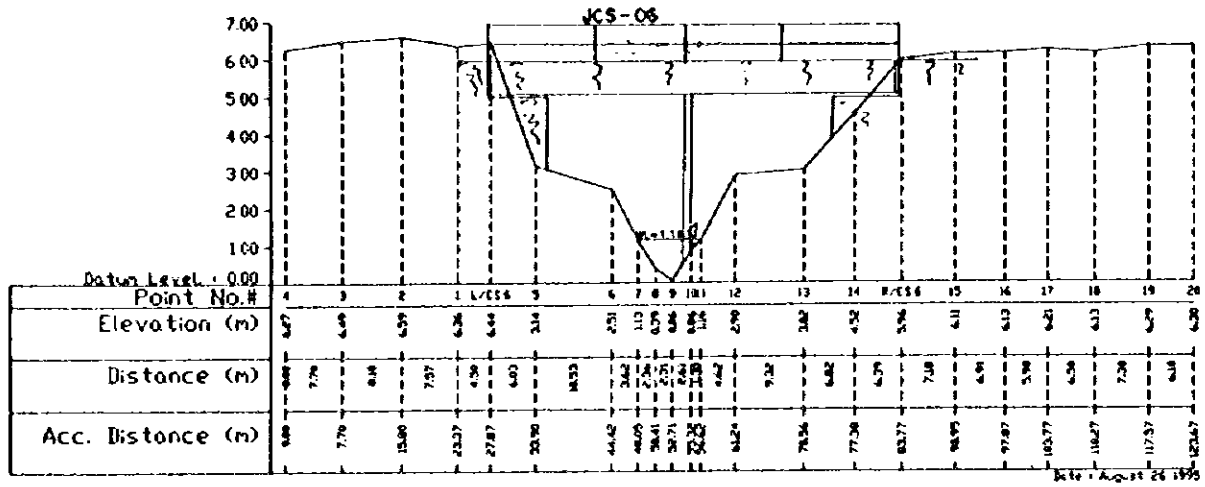
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **HOOKERYAART CANAL RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------|-------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| B. HANIKO | R. KORANE | Horizontal 1 : 500 | 1 of 3 |
| Signature | Date | Vertical 1 : 100 | |
| 11.11.95 | 20.11.95 | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATAMA & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to TIG 177 = 40.134 meters
 The correlation between other system are:
 TIG 177 ± 0 = MWP - 0.975 meters = PP ± meter

(IN METERS)
 1 : 100
 1 : 500

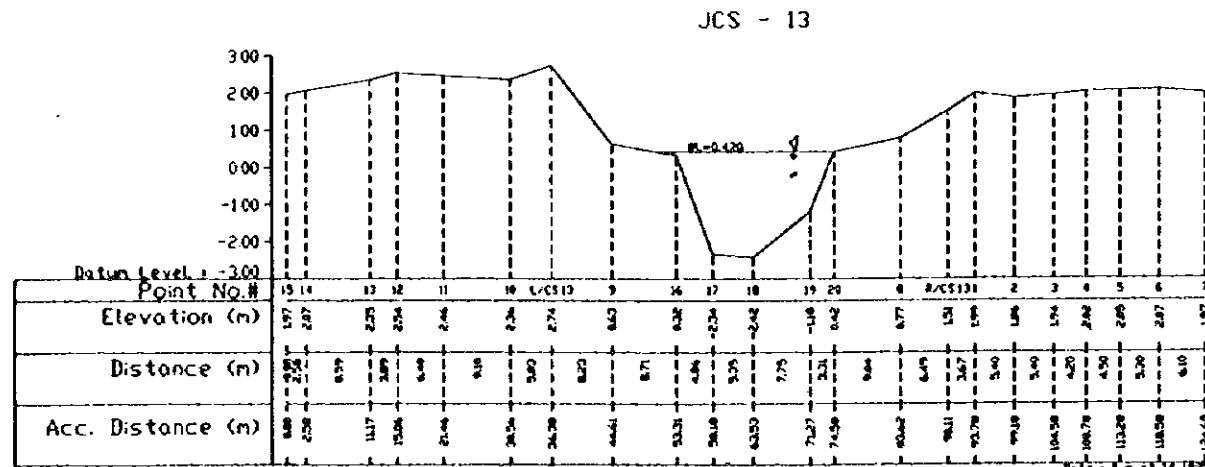
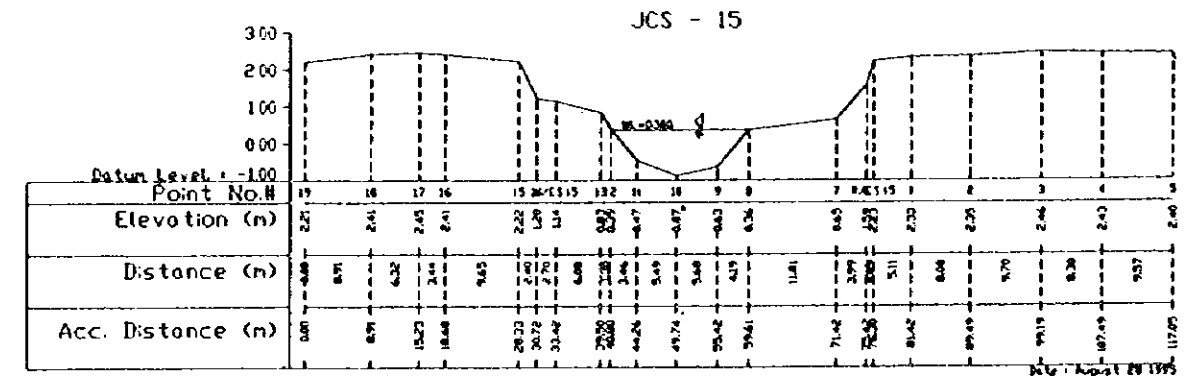
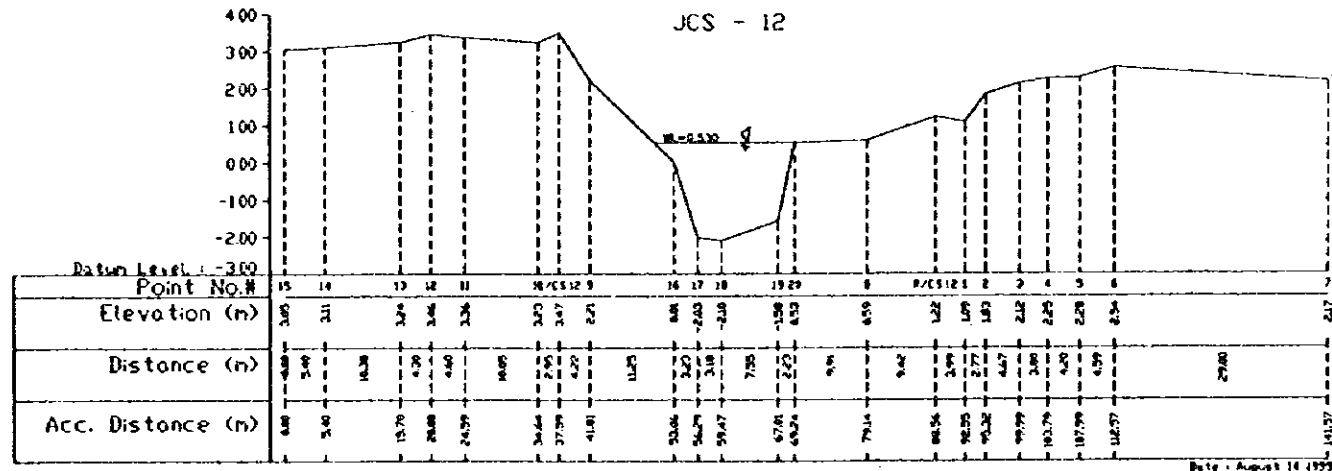
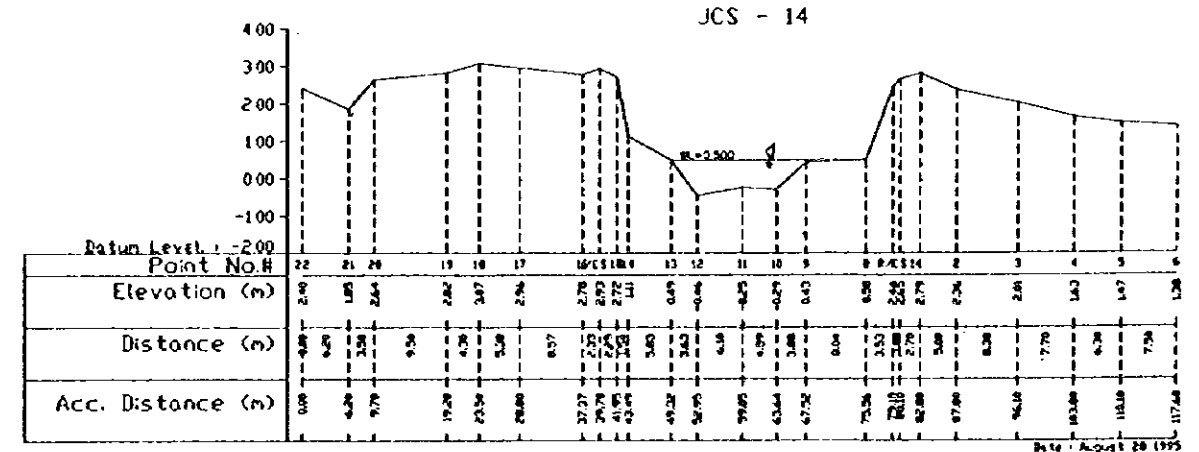
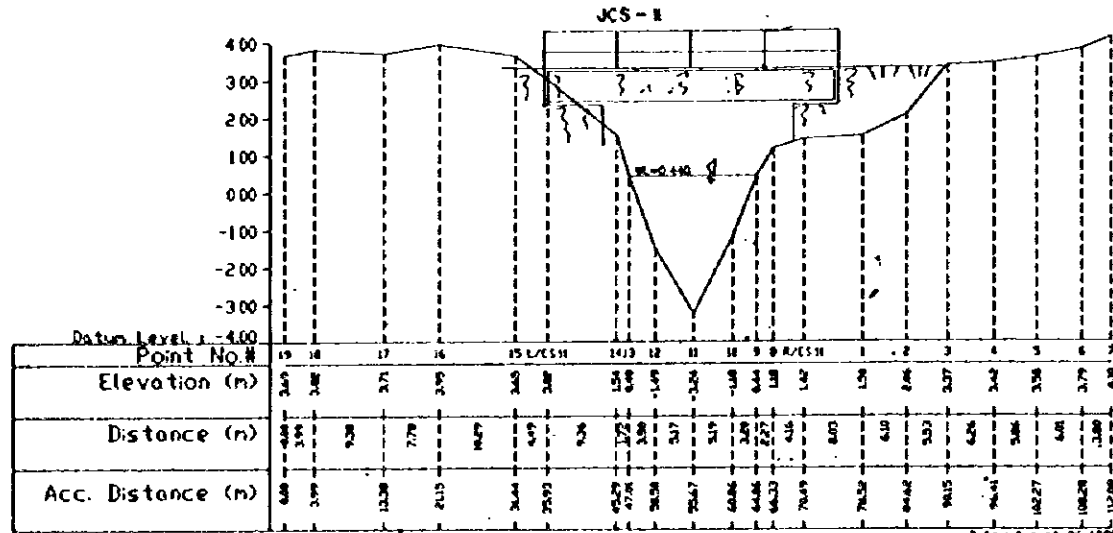
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **HOOKERYAART CANAL RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|----------------|-------------|--------------------|-----------|
| Checked by | Approved by | Scale | Sheet No. |
| W. SUDARNO | I. HAN | Horizontal 1 : 500 | 2 of 3 |
| Date: 11.01.07 | 12.11.07 | Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRAWAN & Associates** JAKARTA -- INDONESIA



Reference Point:
The Elevation is referred to TTG 177 = 40.156 meters
The correlation between other system are
TTG 177 ± 0 = MSL - 0.975 meters = PP ± 0.975 meter

(IN METERS)

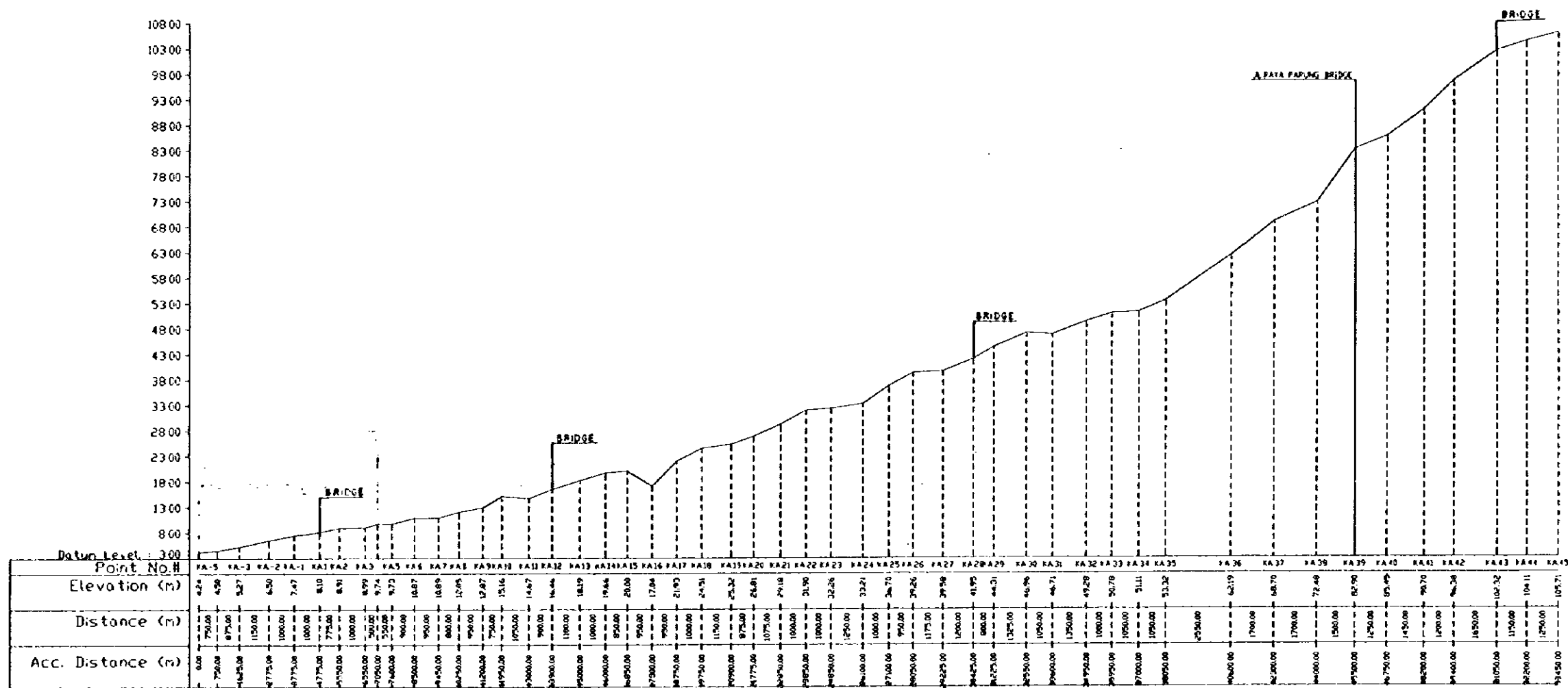
1 : 500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

| | | | | | | | |
|--|--|----------------------------------|--|--------------------------------------|--|-------------------|--|
| Name of River : MOOKERYAART CANAL RIVER | | | | Drawing Title : CROSS SECTION | | | |
| Checked by : <u>MOHAMMAD SOEPAHITO</u> | | Approved by : <u>[Signature]</u> | | Scale : Horizontal 1 : 500 | | Sheet No : 3 of 3 | |
| Signed : <u>[Signature]</u> | | Date : <u>22.11.93</u> | | Vertical 1 : 100 | | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 (TIG 177 = 40.136 meters)
 The correlations between other system are :
 TIG 177 ± 0.0 = NWP - 0.975 meters + PP + meters

(20 METERS)
 0 100 200 300 400 500
 0 100 200 300 400 500
 Scale = 1:100000

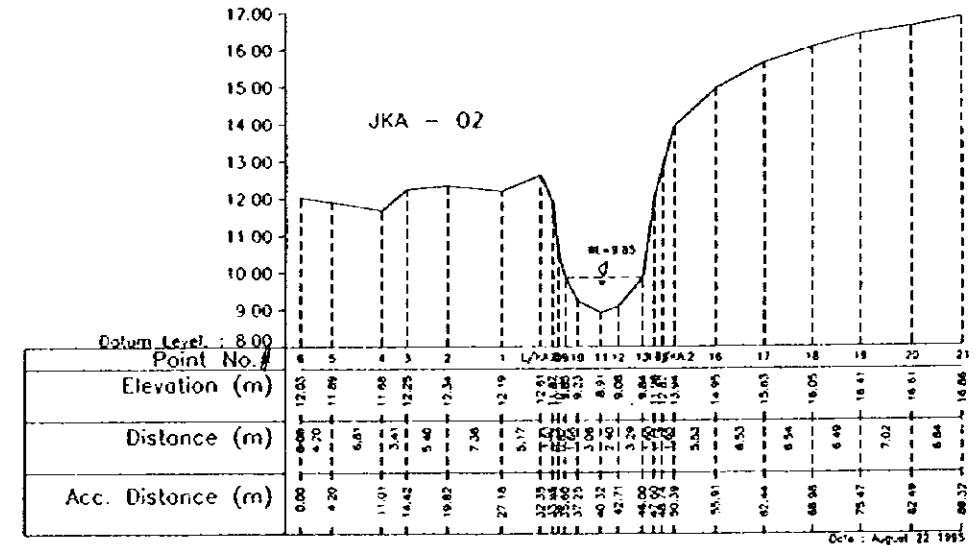
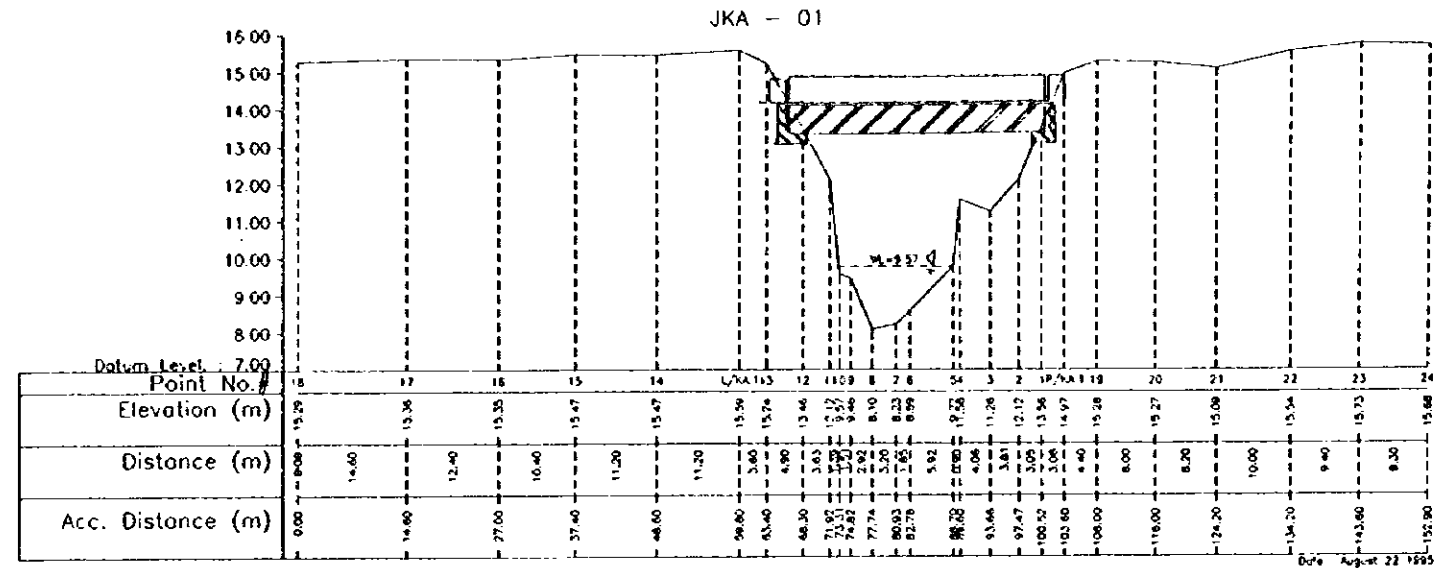
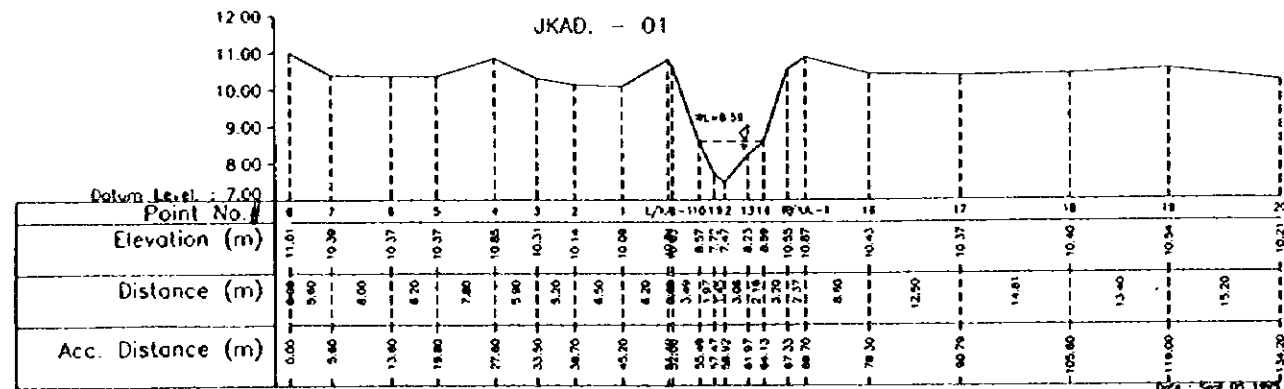
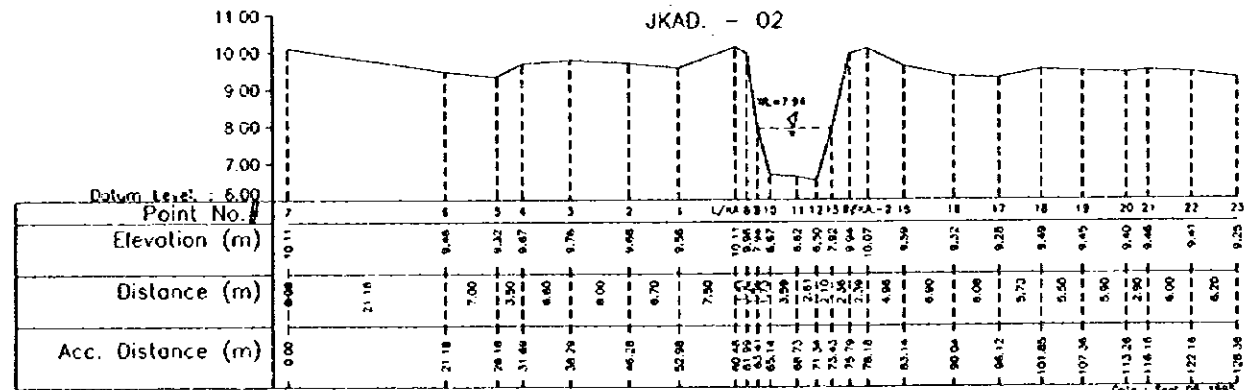
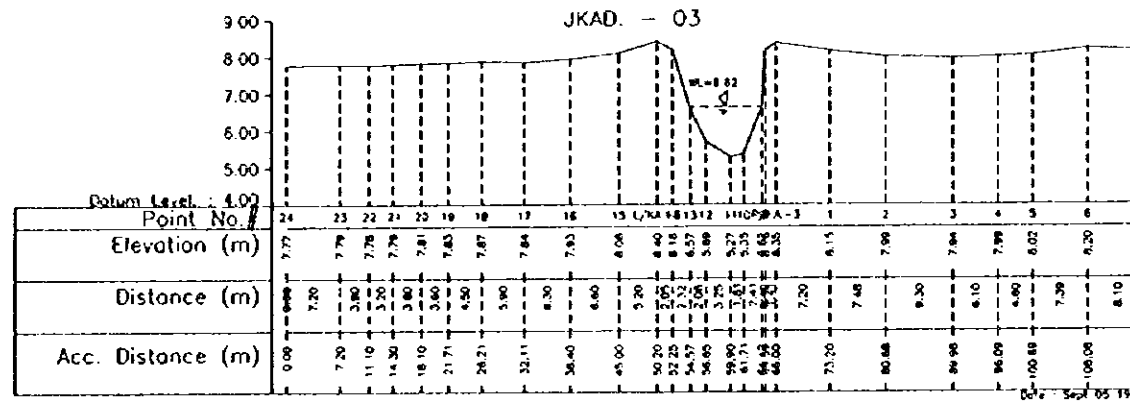
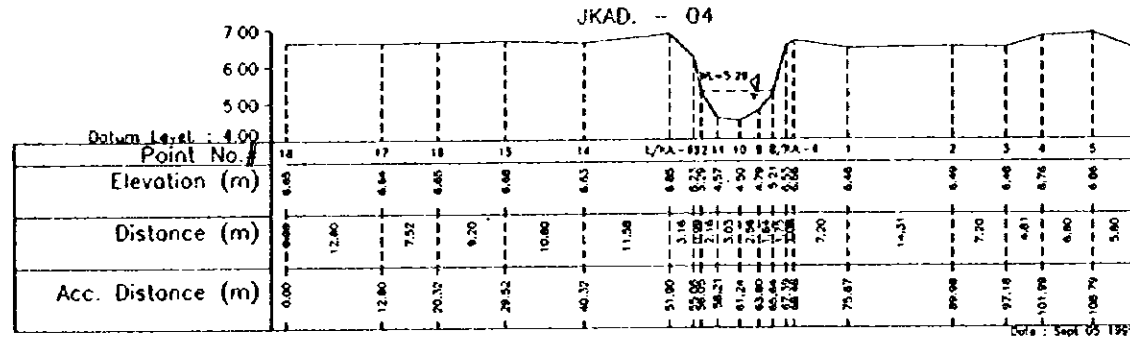
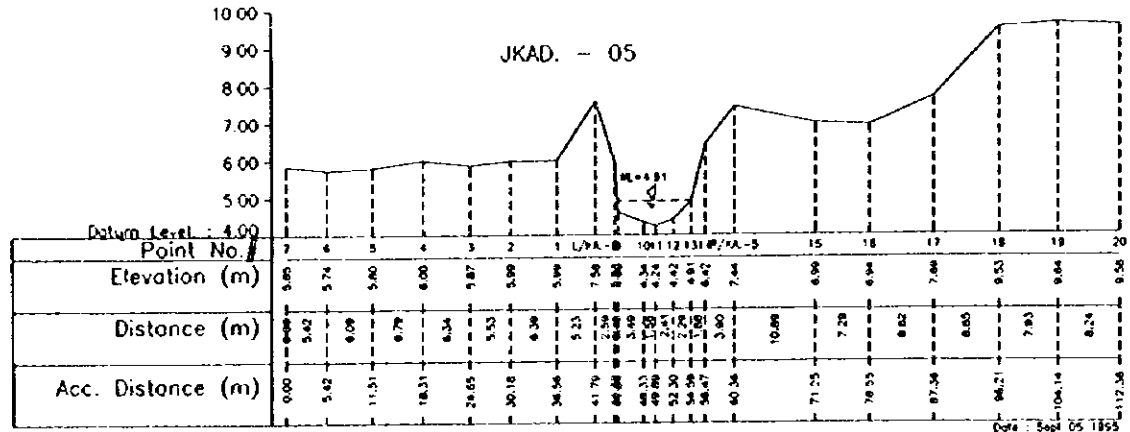
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **ANGKE RIVER** Drawing Title : **LONGITUDINAL PROFILE**

| | | | |
|-------------------------|-------------------------|-----------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| Name : BIRCHHO | Name : R. TORANE | Horizontal 1 : 100000 | 1 of 1 |
| Signature : [Signature] | Signature : [Signature] | Vertical 1 : 500 | |
| Date : 26.11.2011 | Date : 26.11.2011 | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WARITAMA & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIC 177 = 40.136 meters
 The correlation between other system are :
 TIC 177 ± 0 = WSP - 0.975 meters = PP + ... meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

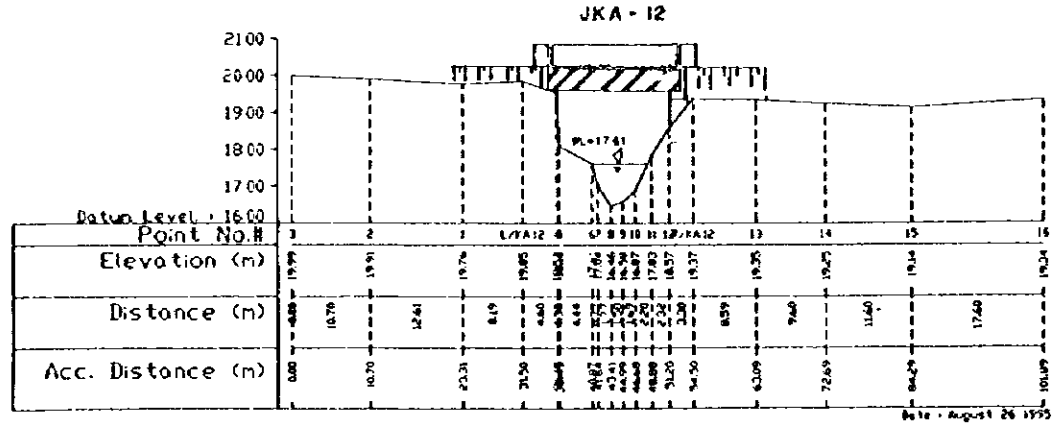
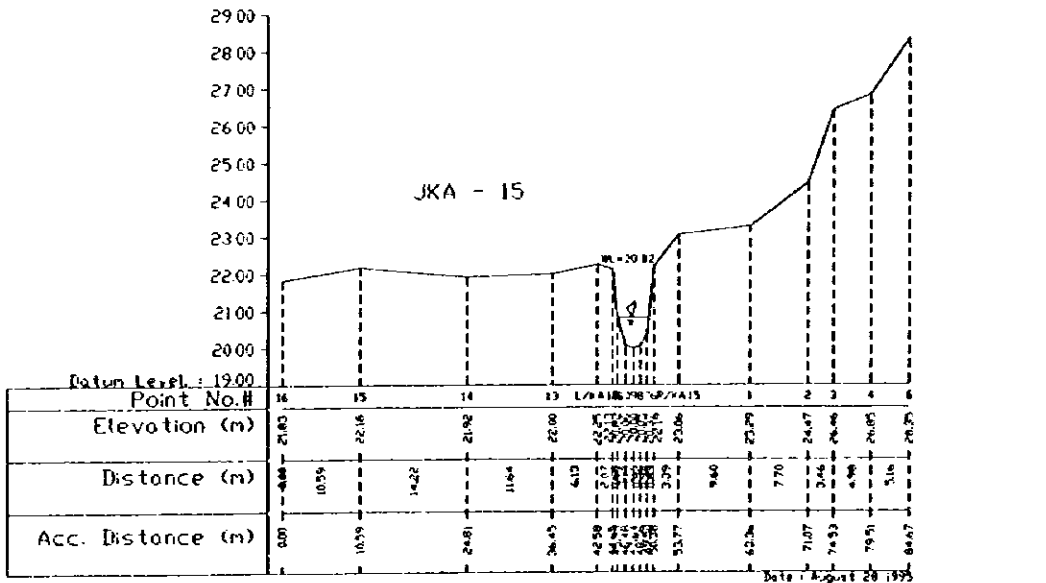
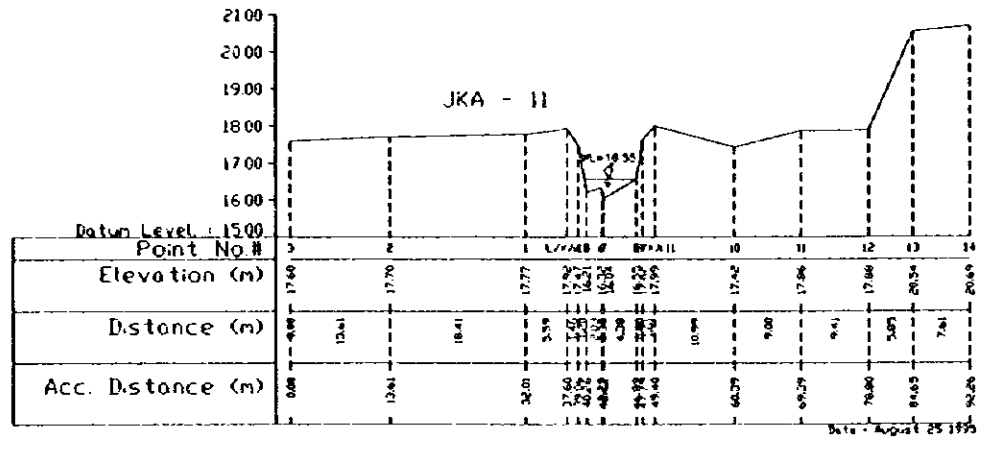
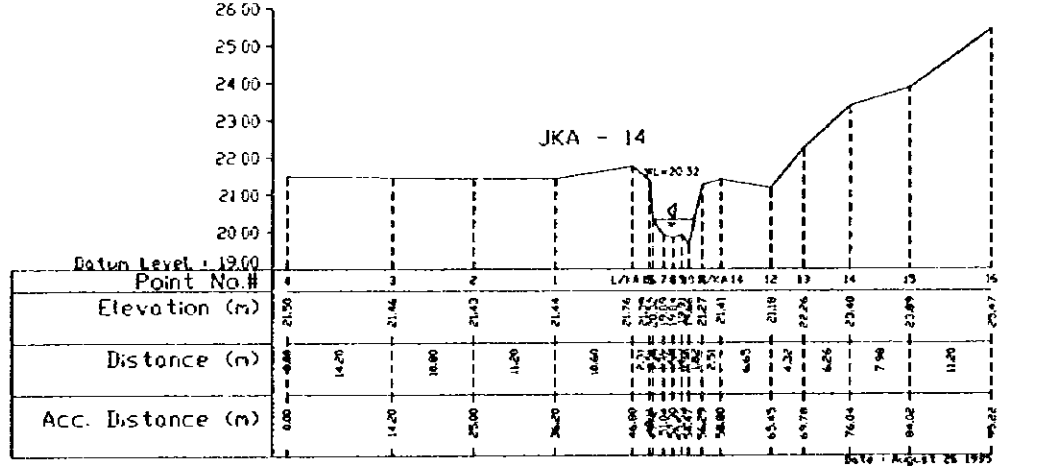
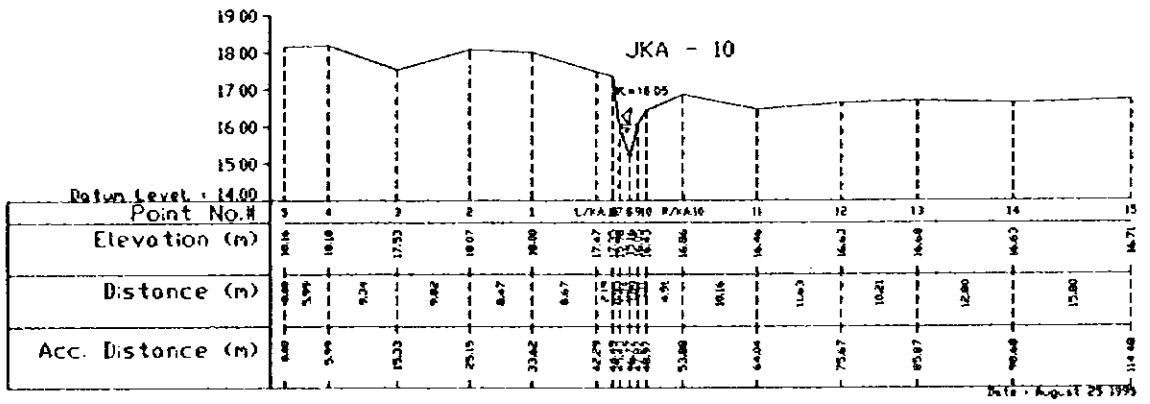
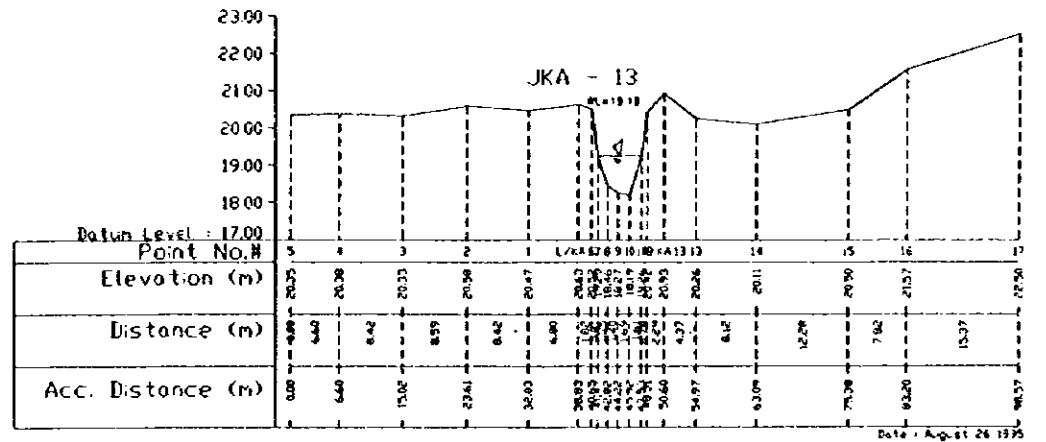
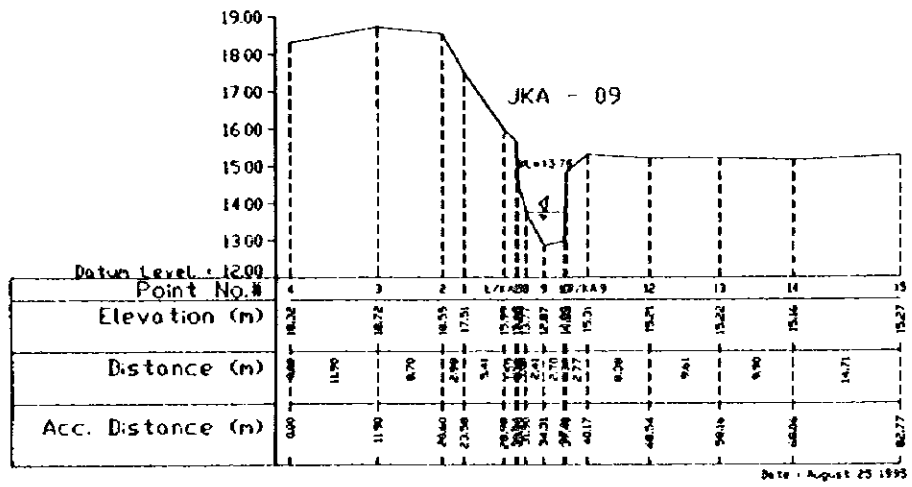
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **ANGKE RIVER** Drawing Title : **CROSS SECTION**

| Name | BACHNO | HECKANO | T. MAN | F. TOPANE |
|-----------|-------------|-------------|-------------|-------------|
| Signature | [Signature] | [Signature] | [Signature] | [Signature] |
| Date | 17.11.95 | 20.11.95 | | |

Scale : Horizontal 1 : 500 Vertical 1 : 100 Sheet No 1 of 9

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WIATMAN & Associates JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to TIG 177 = 40.156 meters.
The correlation between other system are
TIG 177 ± 0 = MWP = 0.875 meters = FP + ... meter

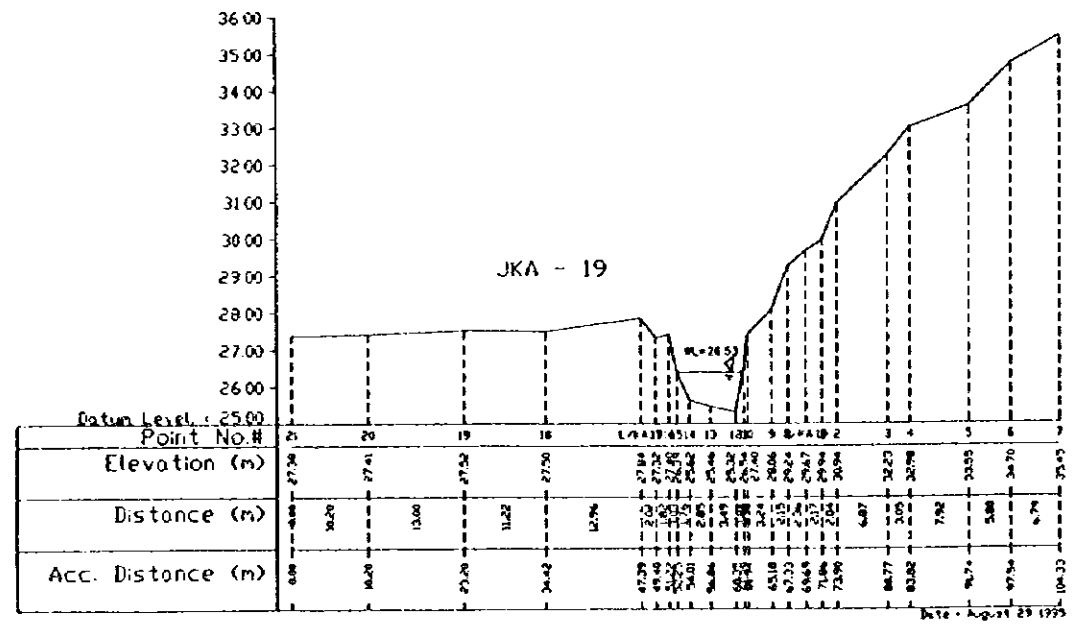
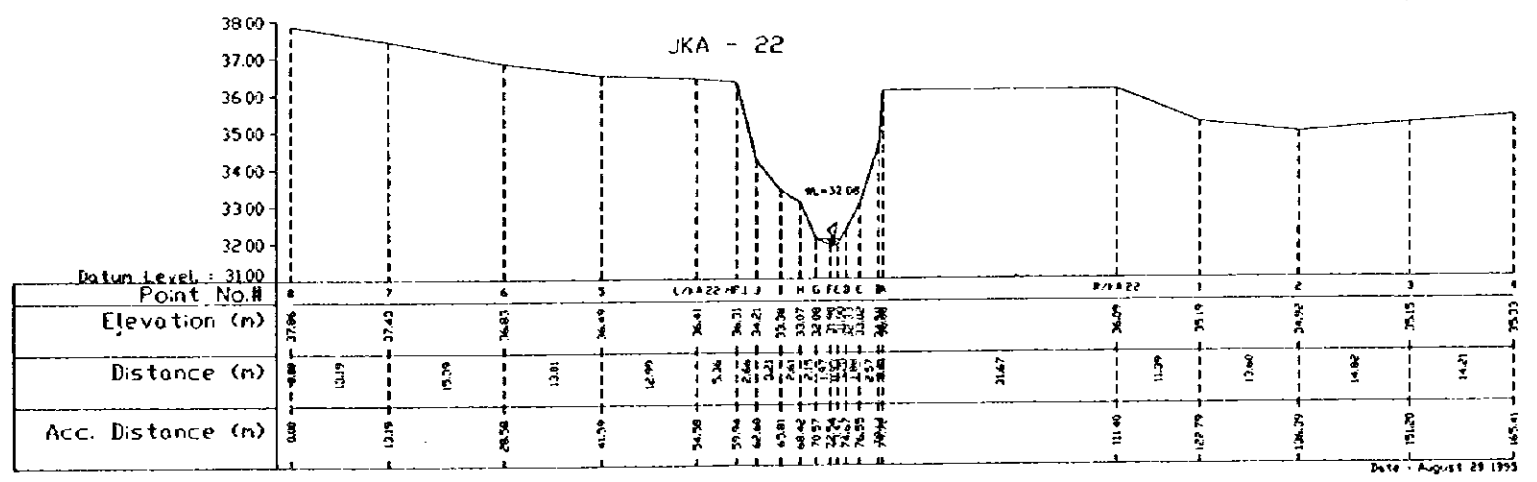
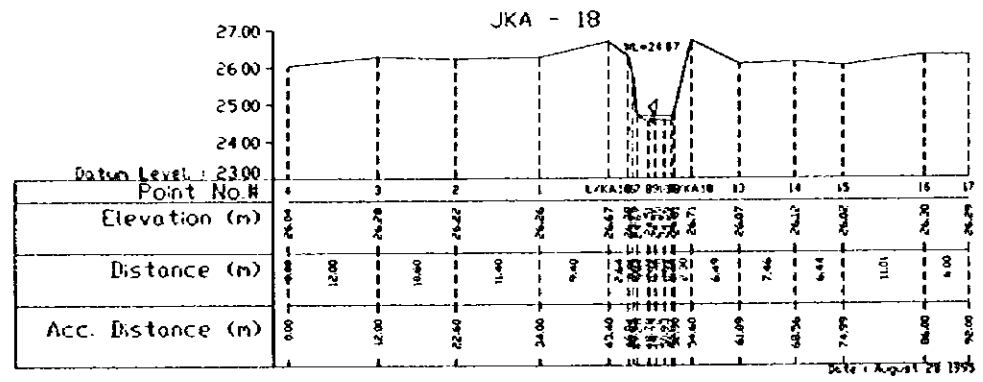
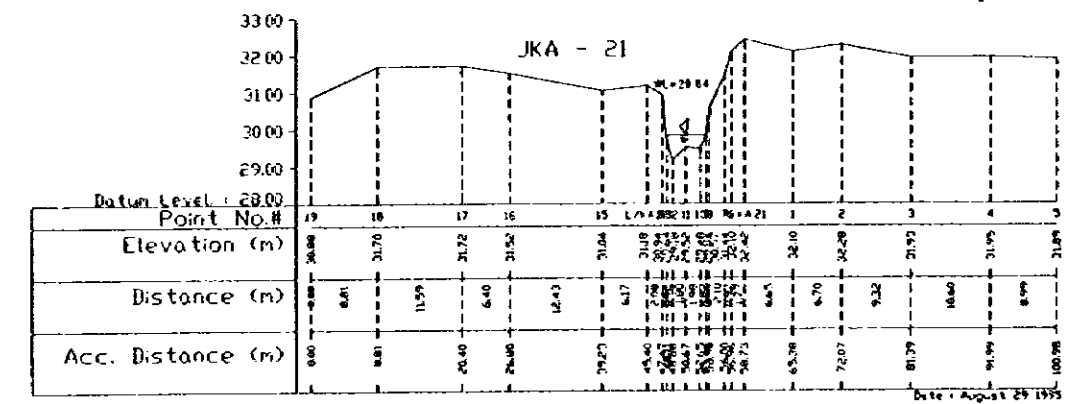
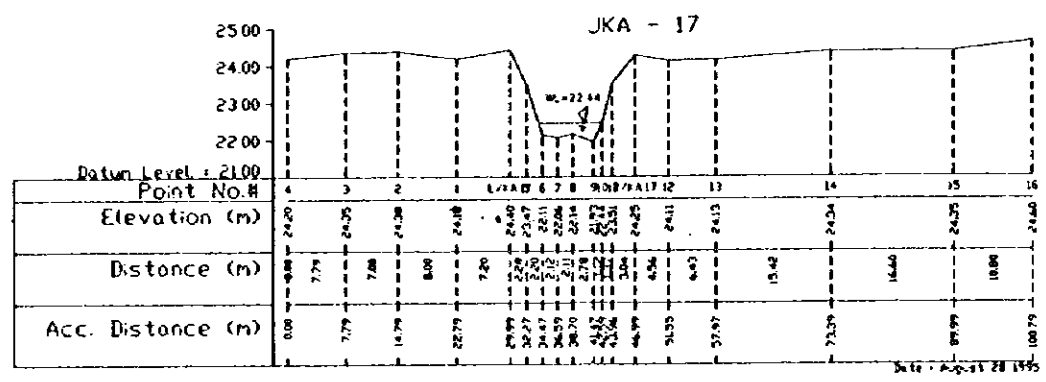
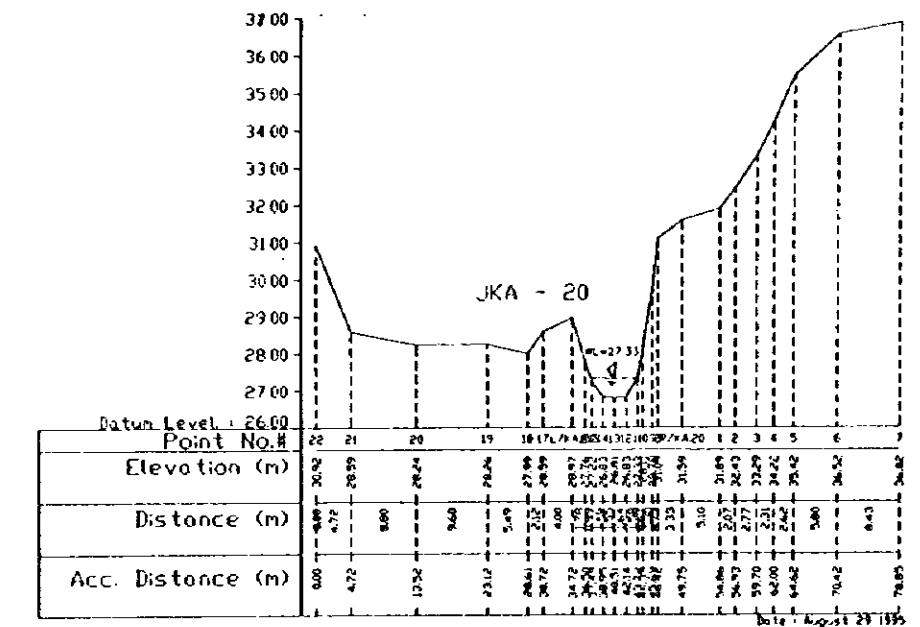
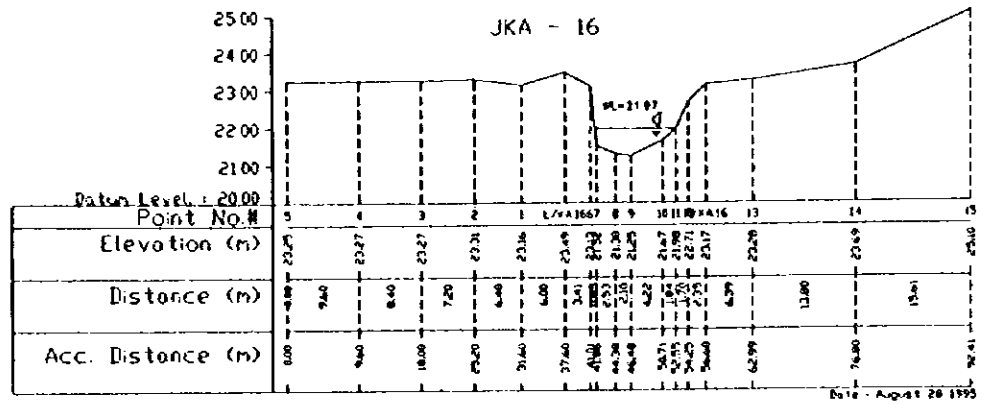
(IN METERS)
1:500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

| | | | |
|--|---|--|---------------------|
| Name of River : ANGKE RIVER | | Drawing Title : CROSS SECTION | |
| Checked by: Name: BARONO SOEDARTO Signature: [Signature] Date: 14.11.95 | Approved by: Name: T. M. K. TOFANE Signature: [Signature] Date: 20.11.95 | Scale: Horizontal 1 : 500 Vertical 1 : 100 | Sheet No: 3 of 9 |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WATAMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITG 177 = 60.136 meters
 The correlation between other system are :
 ITG 177 ± 0 = NTP = 0.975 meters = PP ± . . . meter

(IN METERS)
 1 : 100
 No = 1/200

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

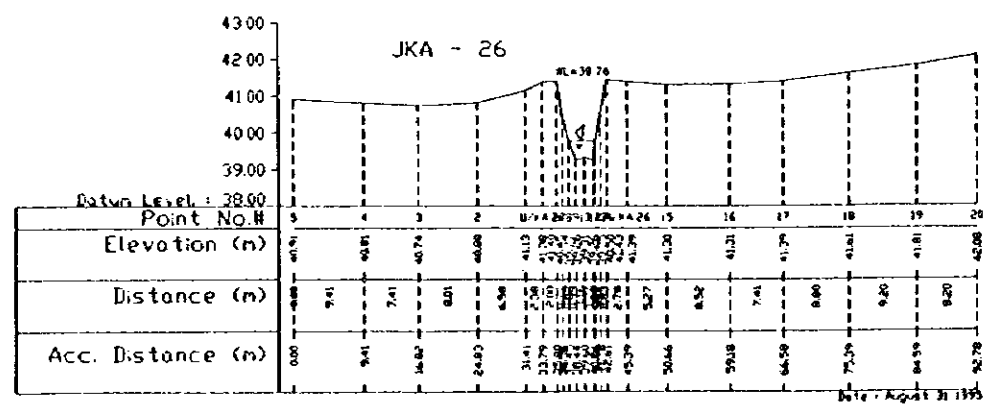
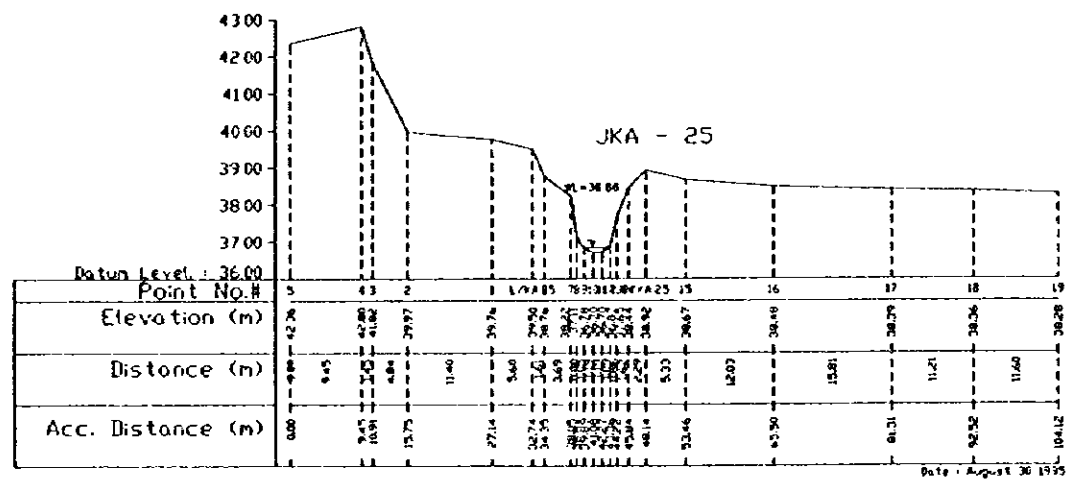
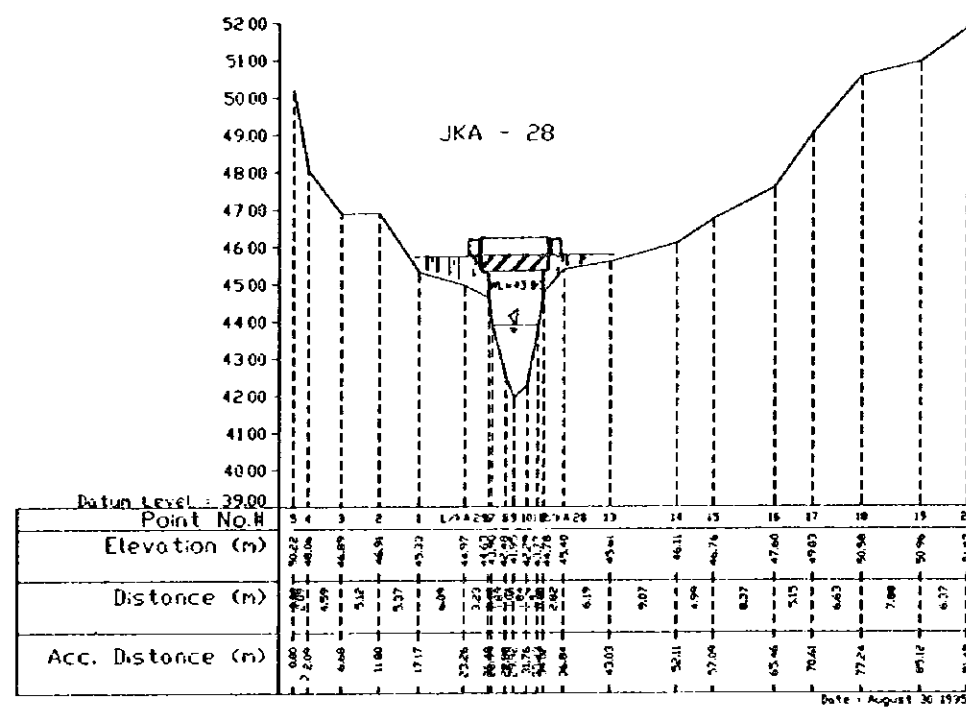
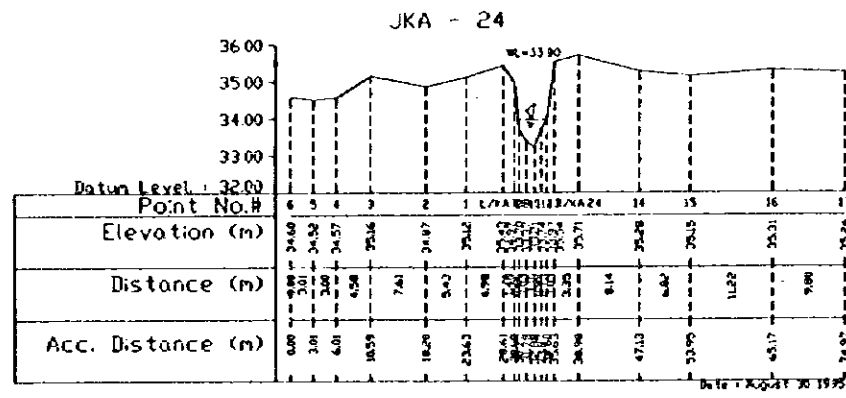
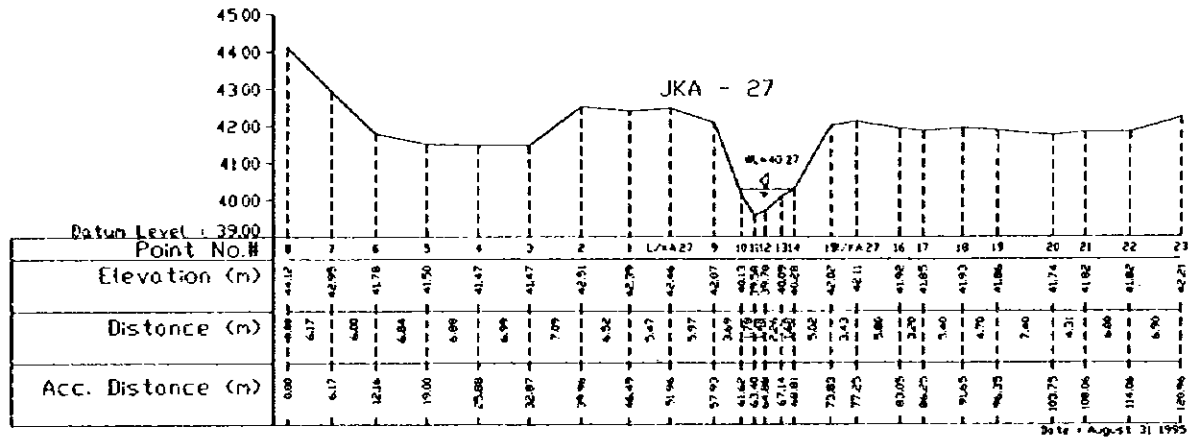
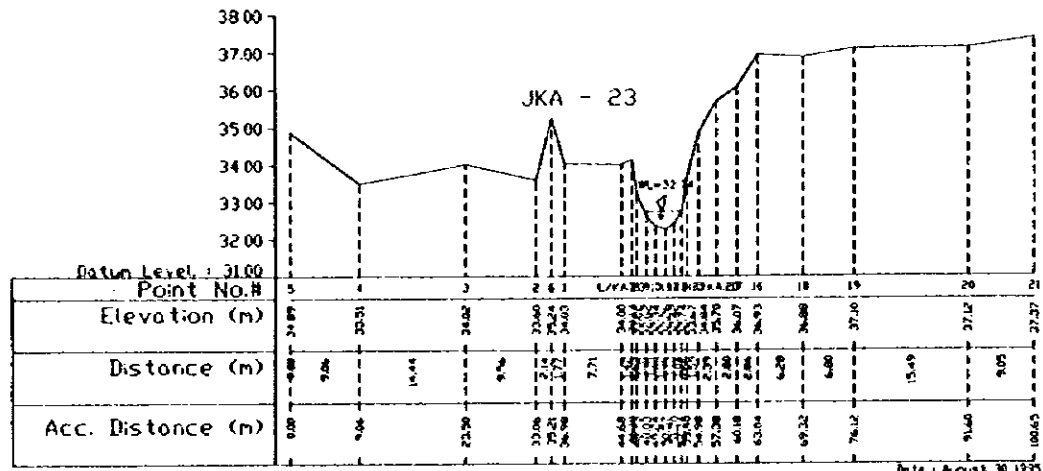
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **ANGKE RIVER** Drawing Title : **CROSS SECTION**

Checked by : *[Signature]* Approved by : *[Signature]*
 Name : BIRIHNO SUCARNO I. H. K. TOPKANE
 Signature : *[Signature]* *[Signature]* *[Signature]*
 Date : 14.01.95 17.01.95 21.01.95

Scale : Sheet No.
 Horizontal : 1 : 500 4 of 9
 Vertical : 1 : 100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRAYMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITG 177 = 431.56 meters
 The correlation between other system are :
 ITG 177 ± 0 = NWP - 0.975 meters + PP + ... meter

(IN METERS)
 1:500

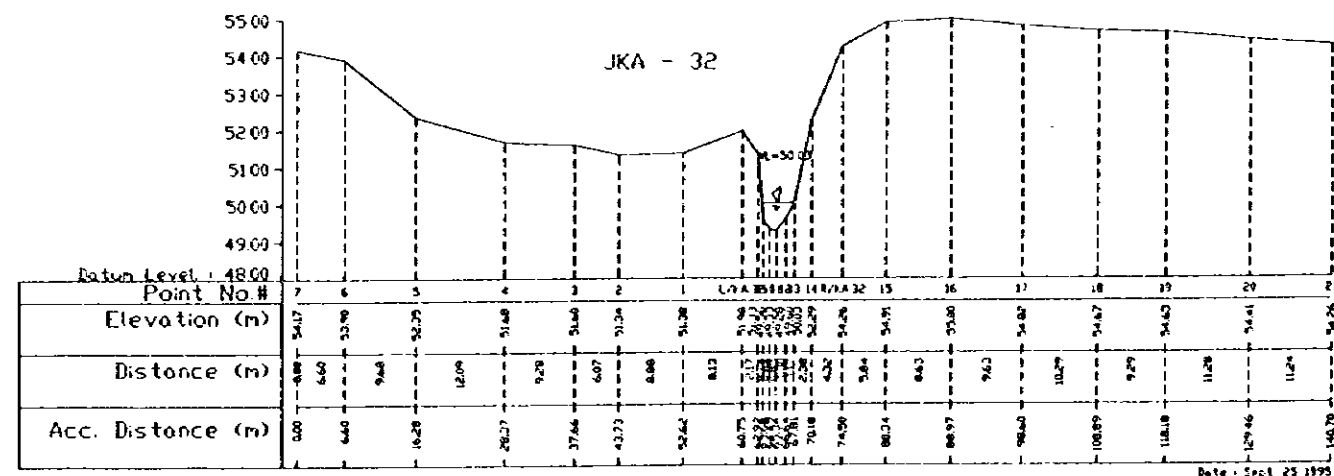
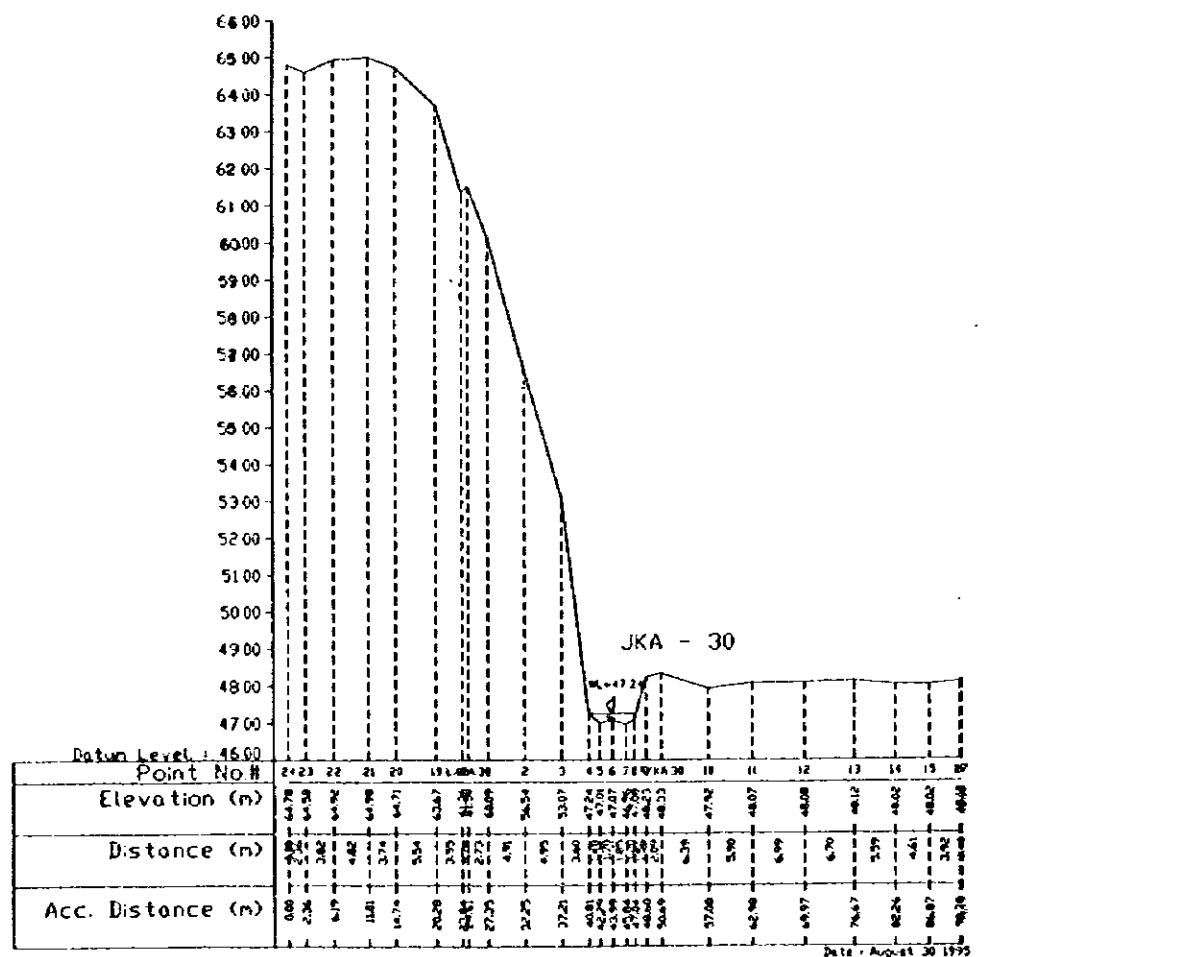
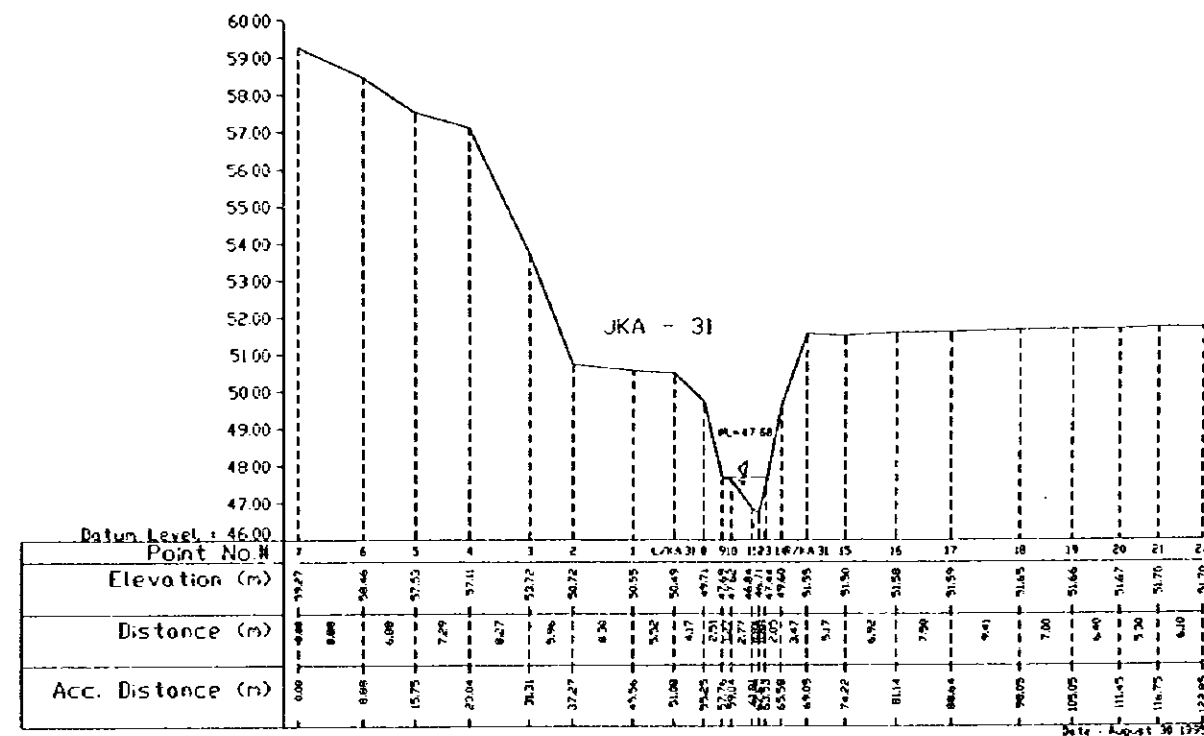
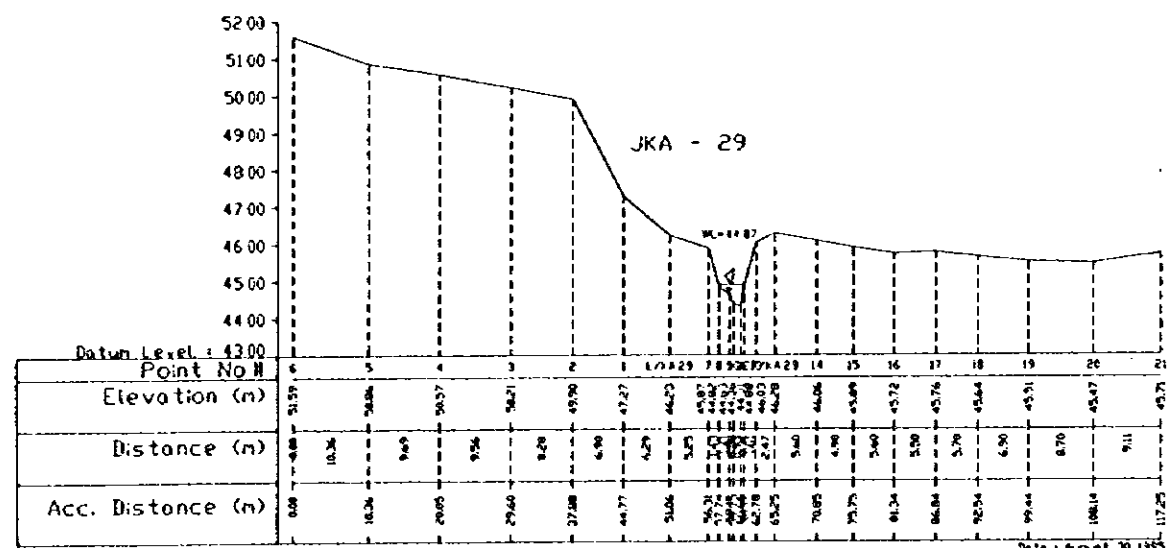
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

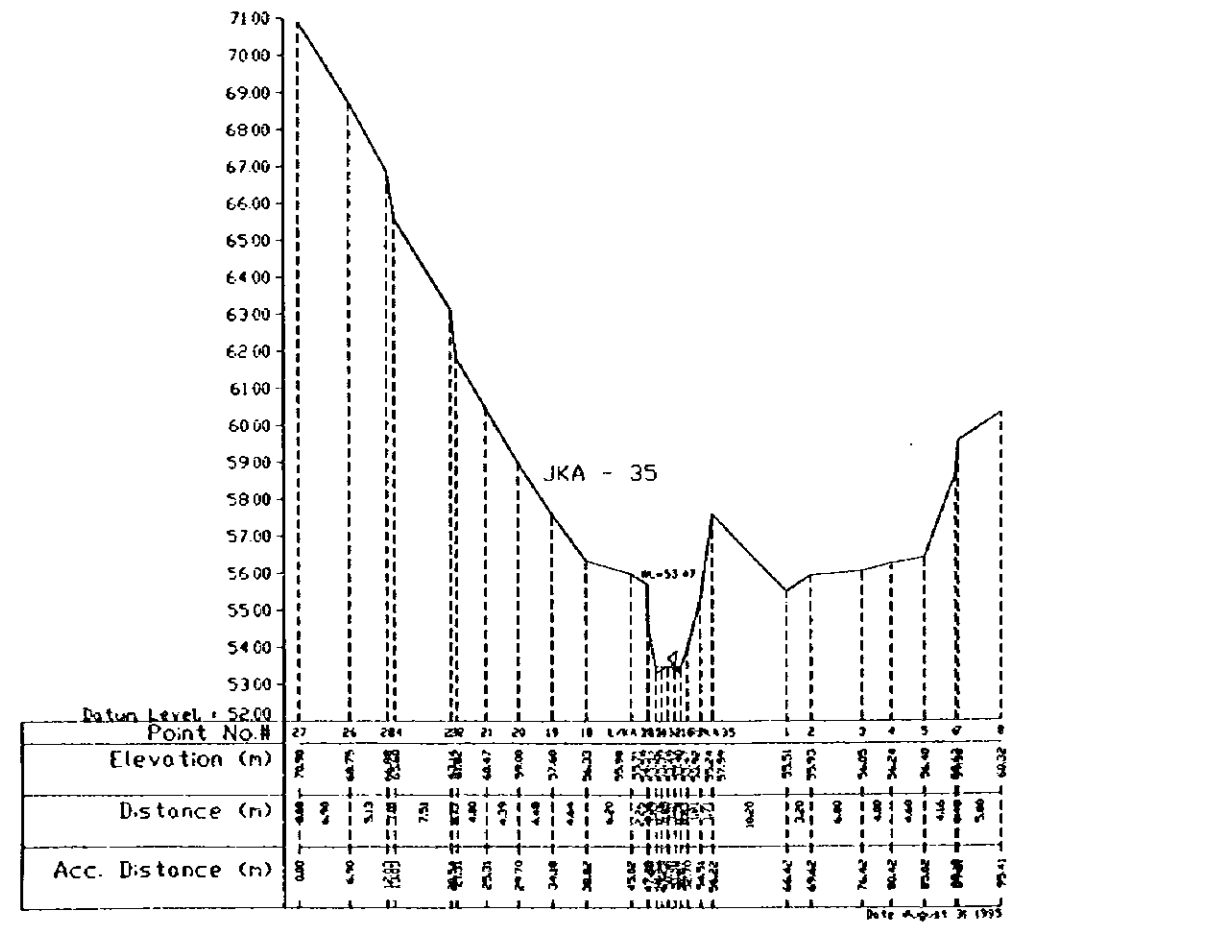
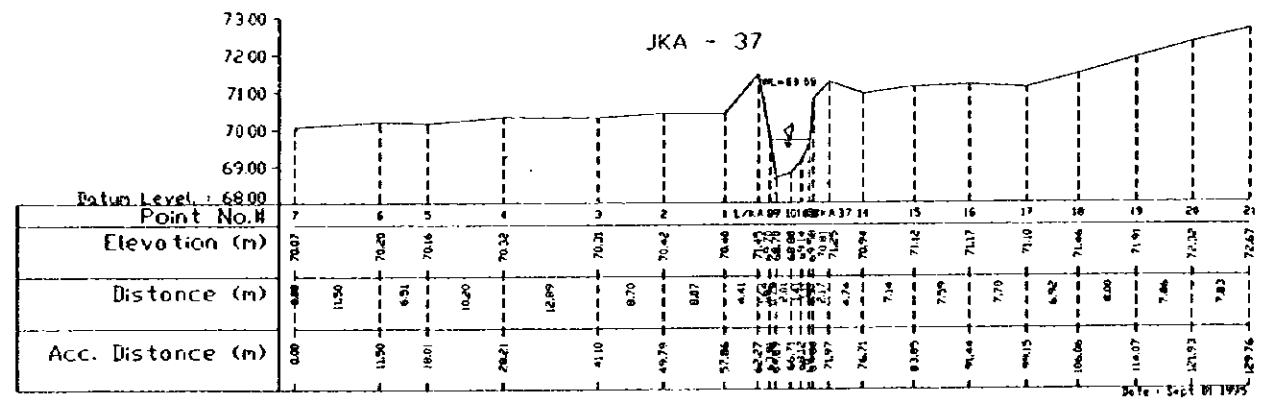
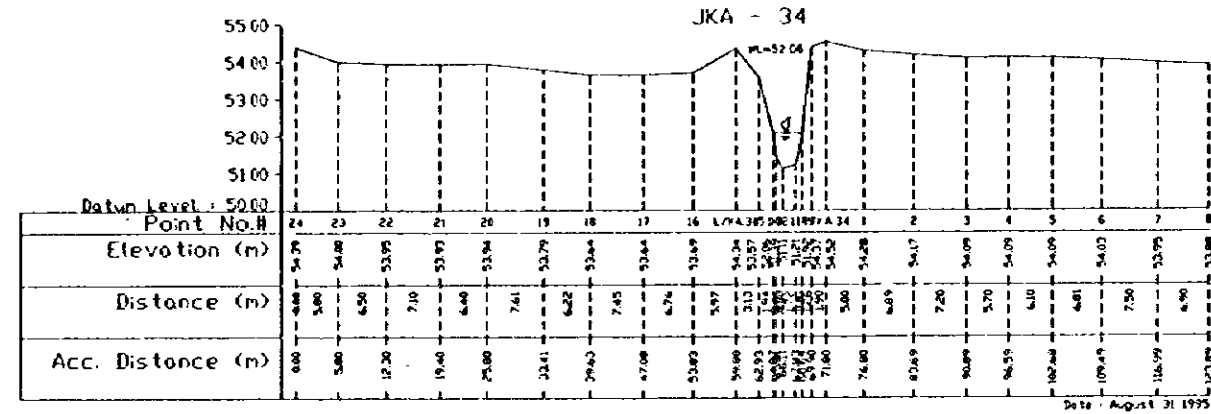
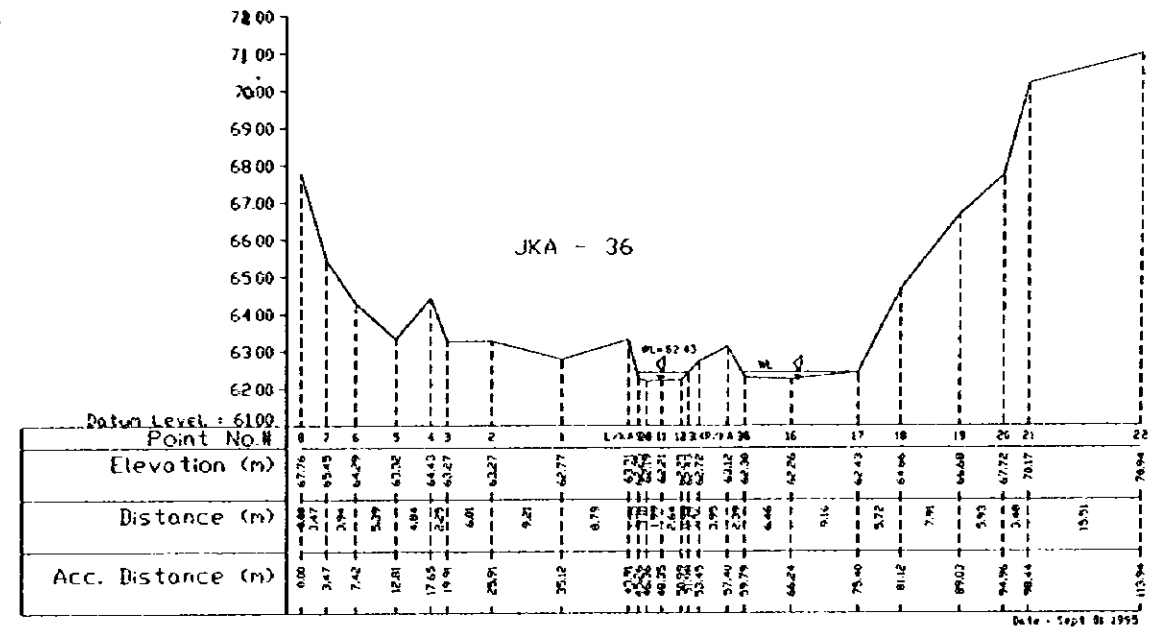
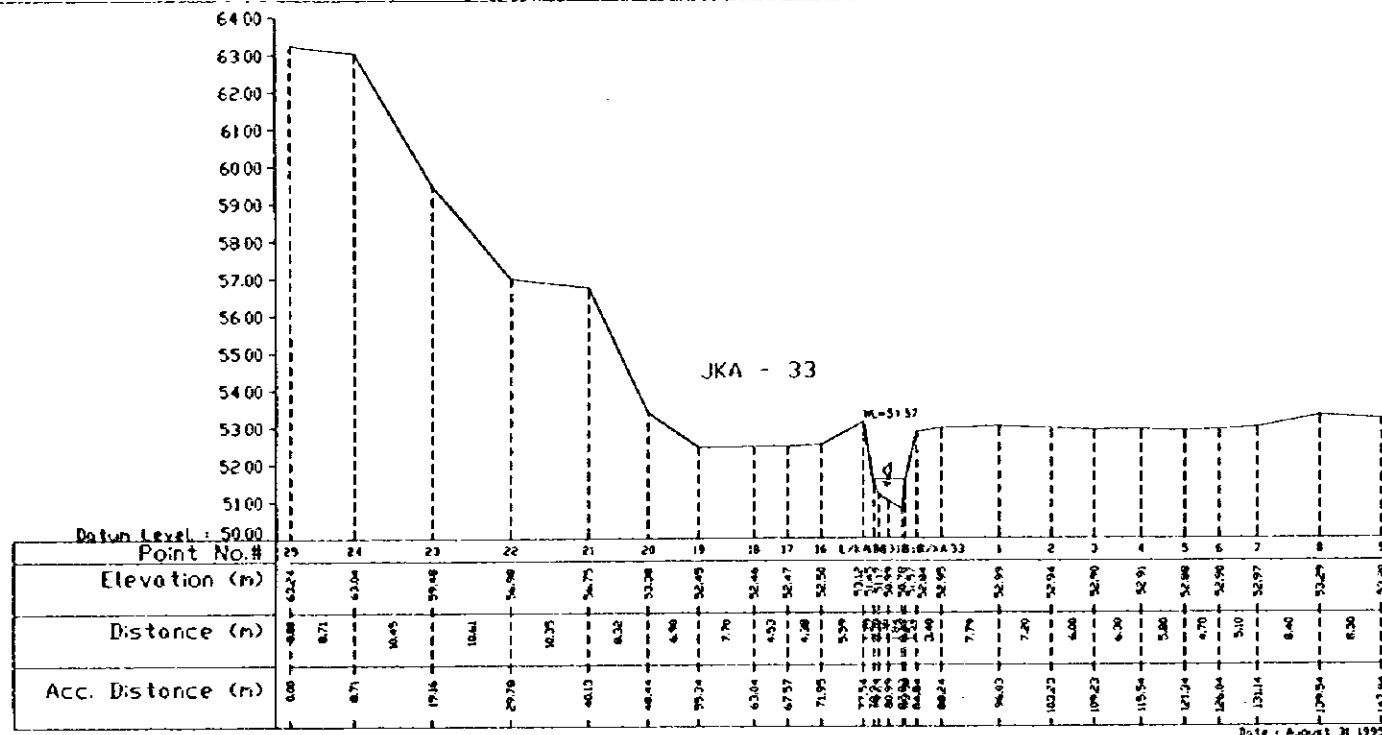
Name of River : **ANGKE RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------|-------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| BHARNO | K. HANANE | Horizontal 1 : 500 | 5 of 9 |
| Signature | Signature | Vertical 1 : 100 | |
| Date | Date | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WATANABE & Associates** JAKARTA - INDONESIA



| | | | |
|--|-------------------------------------|--|----------|
| Reference Point : The Elevation is referred to TIC 177 = 40.136 meters The correlation between other system are TIC 177 ± 0 = NWP - 0.975 meters = PP ± meter | | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : ANGKE RIVER | | Drawing Title : CROSS SECTION | |
| Checked by : <i>(Signature)</i> | Approved by : <i>(Signature)</i> | Scale | Sheet No |
| Horizontal : 1 : 500 | Vertical : 1 : 100 | 6 of 9 | |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WIJAYANAN & Associates JAKARTA -- INDONESIA | |



Reference Point
 The Elevation is related to FIG 177 = 40.136 meters
 The correlation between other system are
 FIG 177 ± 0 = ANP - 0.875 meters = PP ± meter

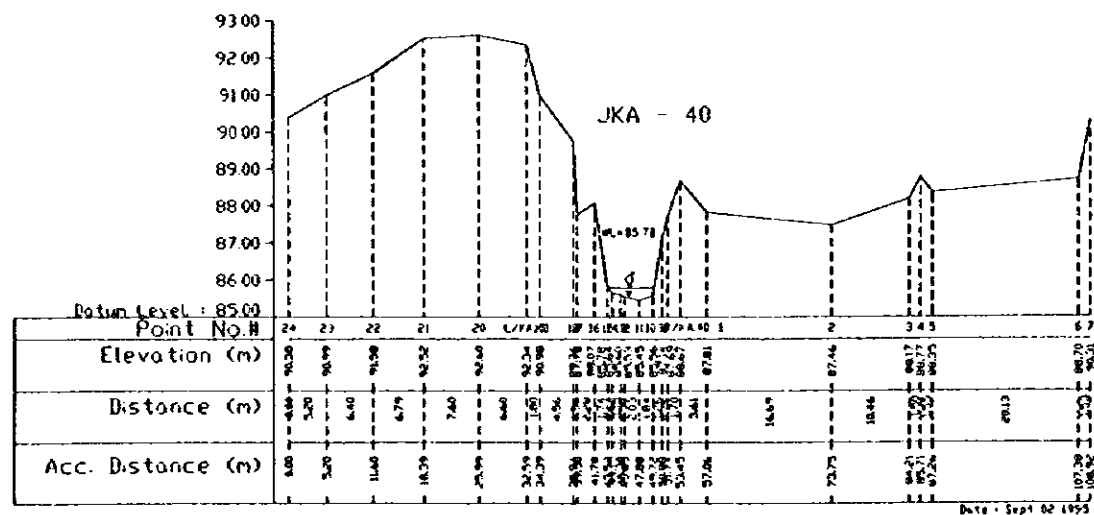
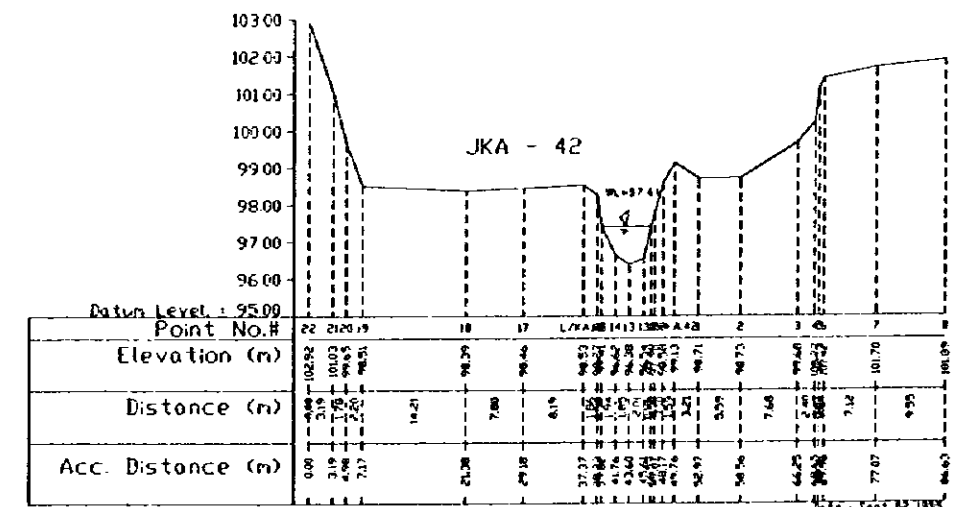
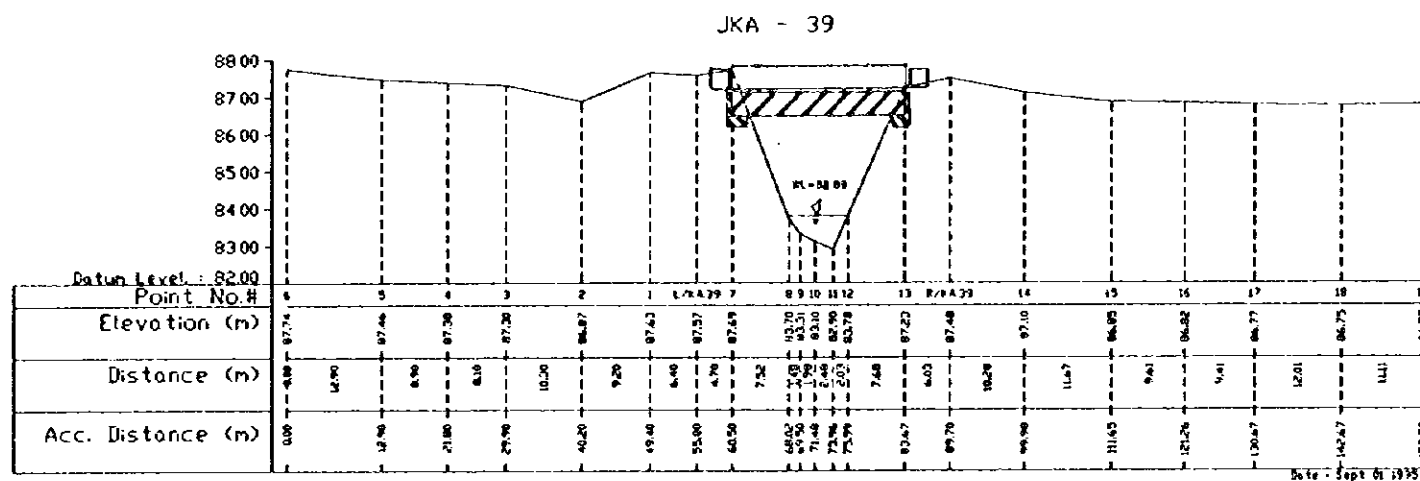
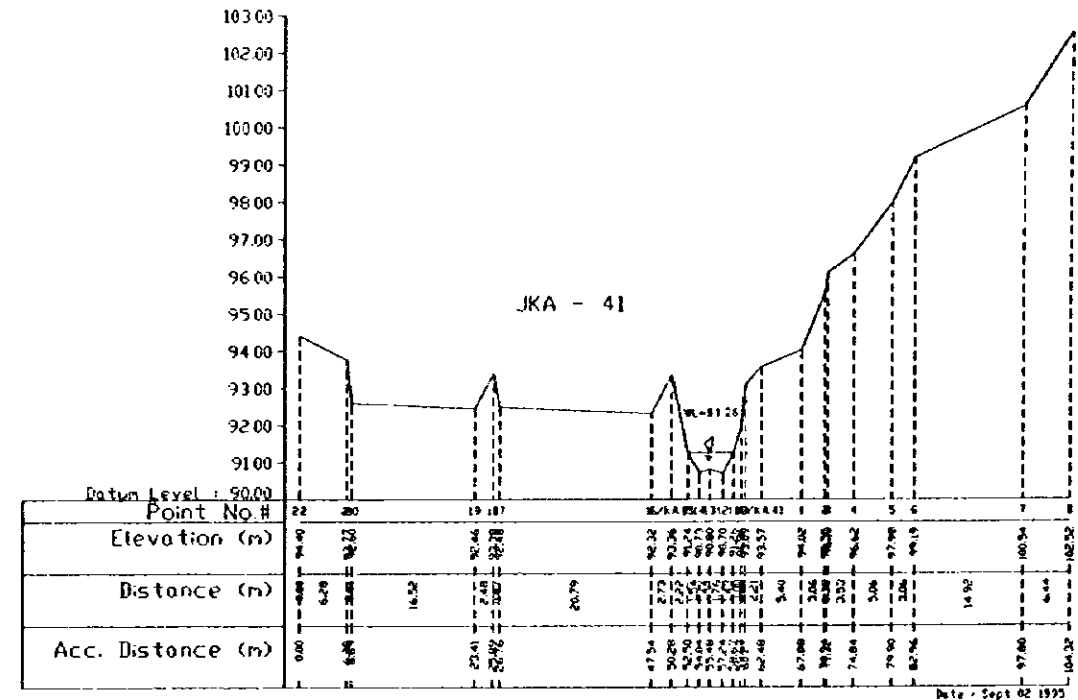
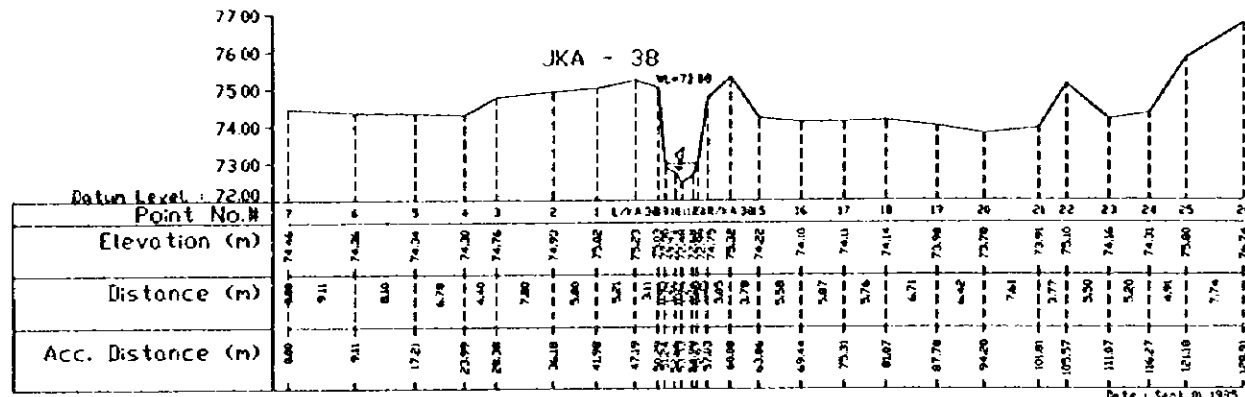
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **ANGKE RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------|-------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| BANONO | SUDARPO | Horizontal 1 : 500 | 7 of 9 |
| Signature | Signature | Vertical 1 : 100 | |
| Date | Date | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WHATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40 136 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP - 0.875 meters = FP + . . . meter

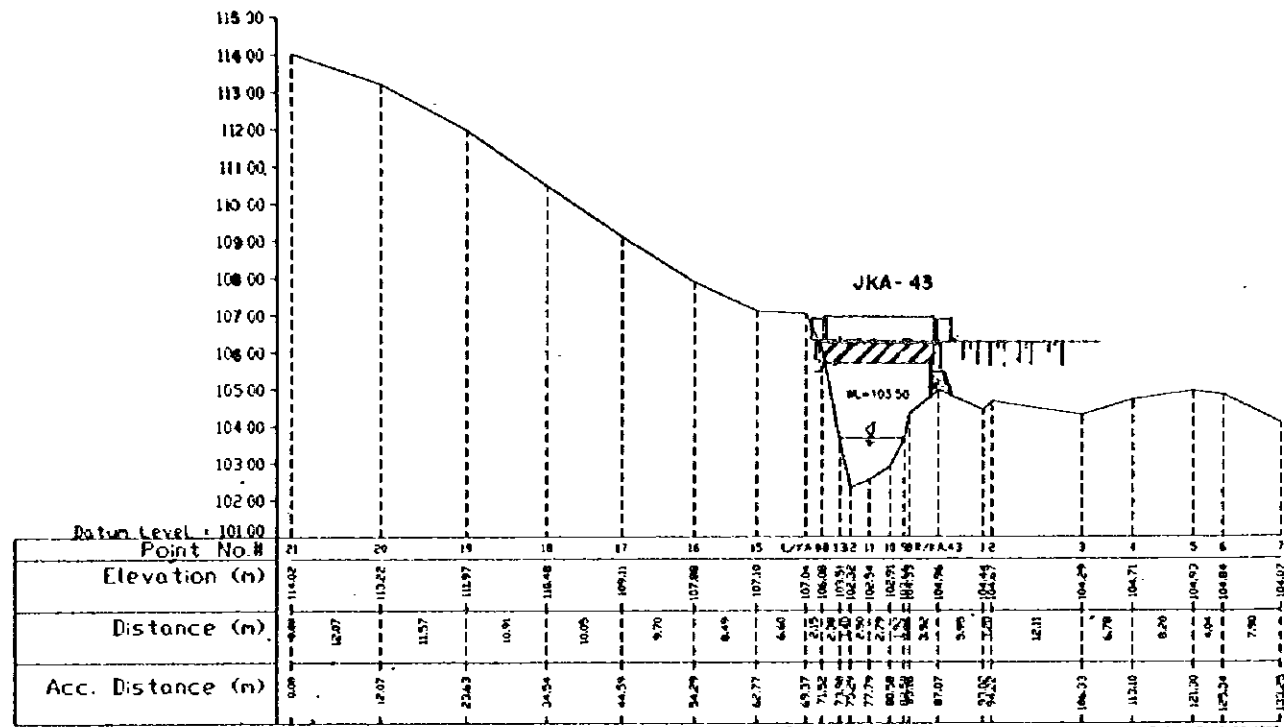
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK

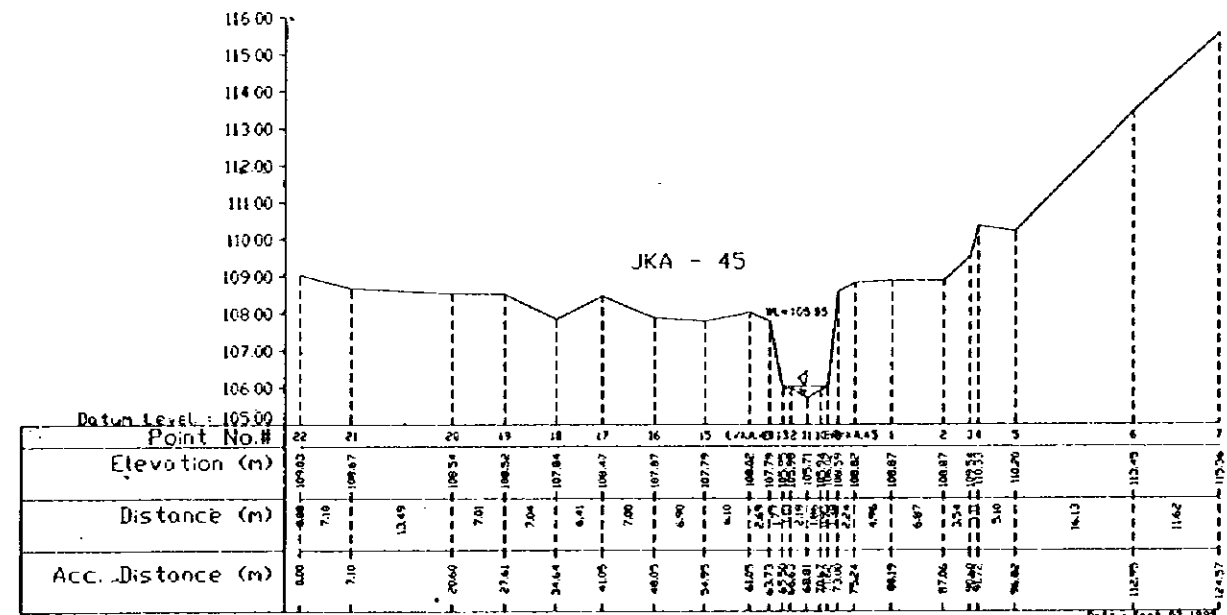
Name of River : ANGE RIVER
 Drawing Title : CROSS SECTION

| | | | |
|---------------|---------------|--------------------|----------|
| Checked By | Approved By | Scale | Sheet No |
| BIRAHNO | P. FORANE | Horizontal 1 : 500 | 8 of 9 |
| Signature | Signature | Vertical 1 : 100 | |
| Date 12.11.75 | Date 21.11.75 | | |

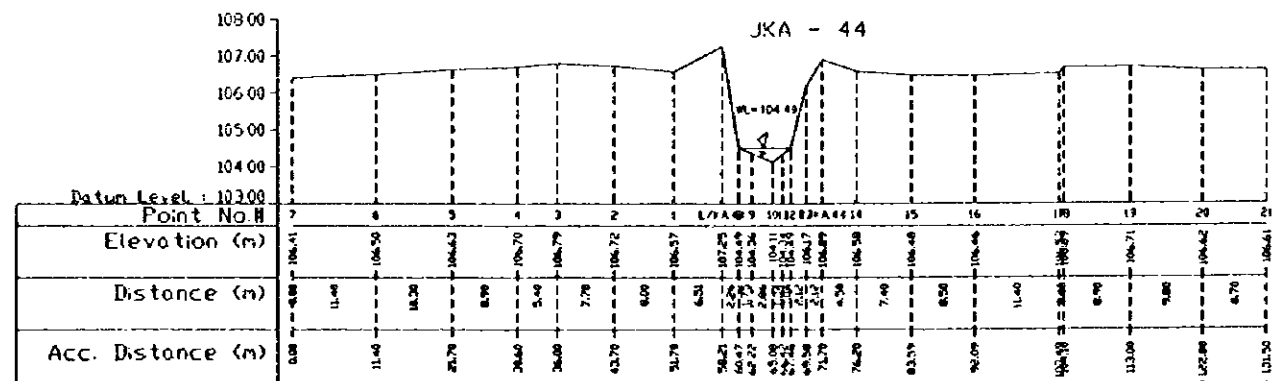
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRAMAN & Associates JAKARTA - INDONESIA



Date : Sept 02 1995



Date : Sept 02 1995



Date : Sept 02 1995

Reference Point :
 The Elevation is referred to ITG 177 = 40 + 36 meters
 The correlation between other system are :
 ITG 177 ± 0 = NWP - 0.975 meters = PP + . . . meter

(1 : 100)
 (IN METERS)

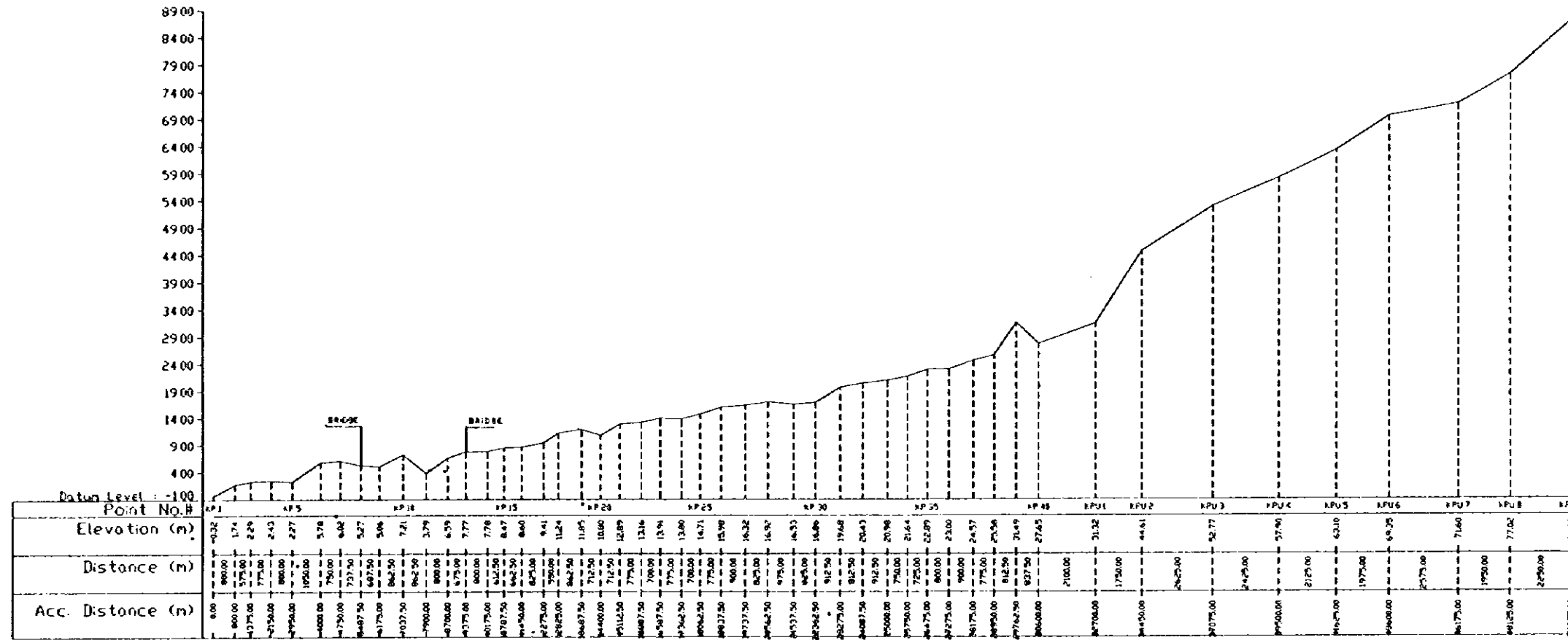
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **ANGKE RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------------------|------------------------|--------------------|-----------|
| Checked by | Approved by | Scale | Sheet No. |
| Signature: [Signature] | Signature: [Signature] | Horizontal 1 : 500 | 9 of 9 |
| Date: 15.11.95 | Date: 21.11.95 | Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to ITG 177 (ITG 177 = 40.136 meters)
 The correlation between other system are :
 ITG 177 ± 0.0 = NWP - 0.975 meters = PP ± meters

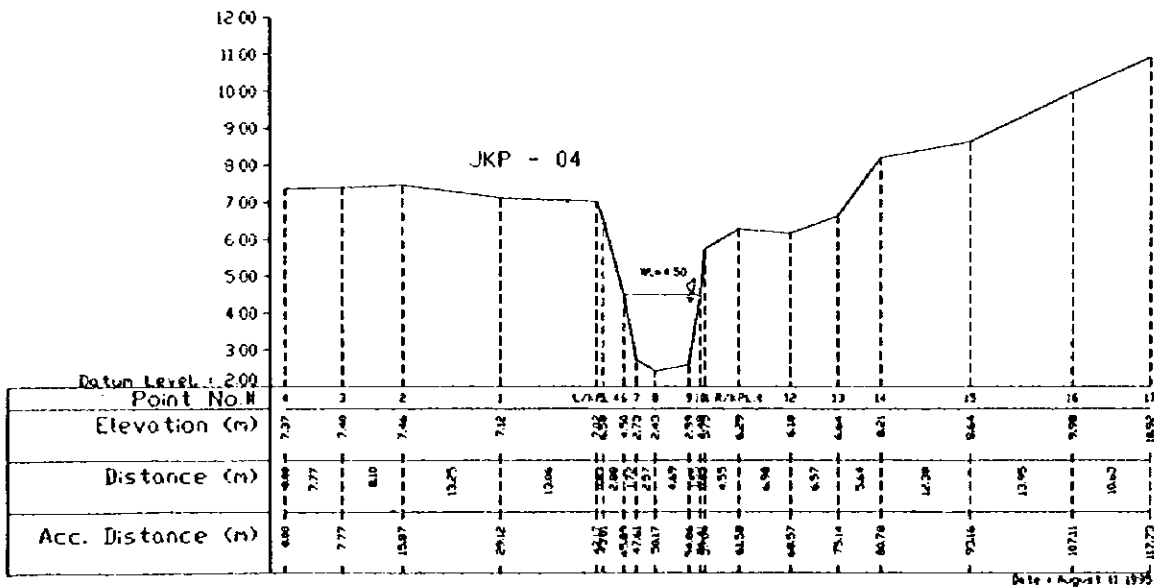
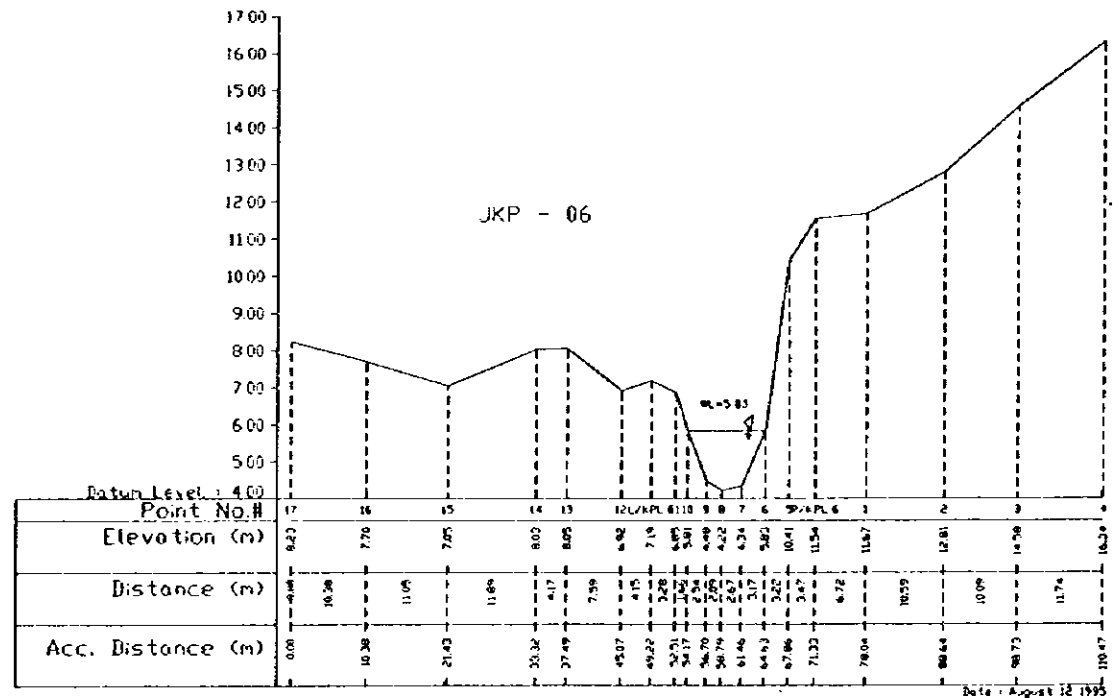
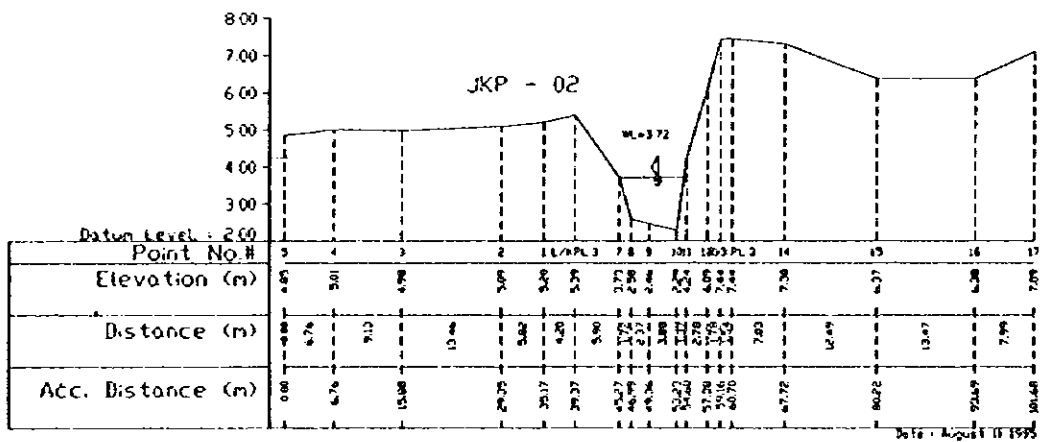
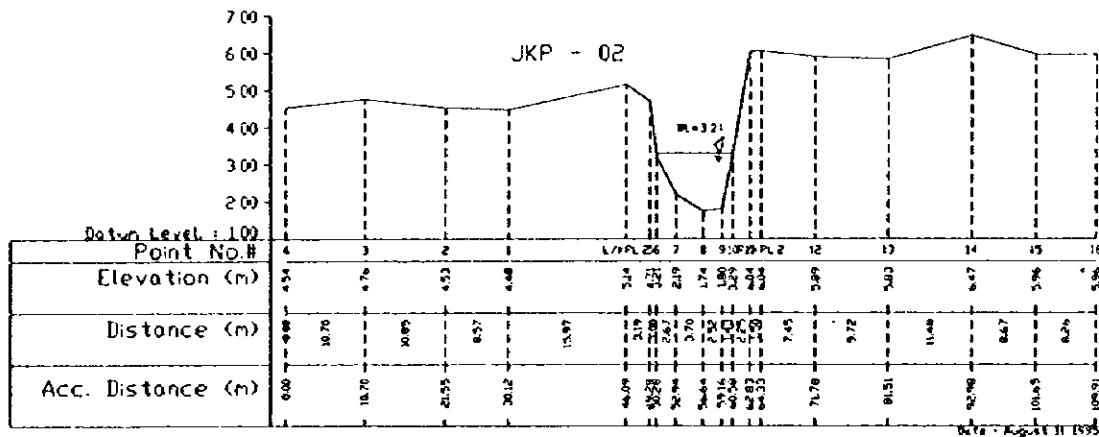
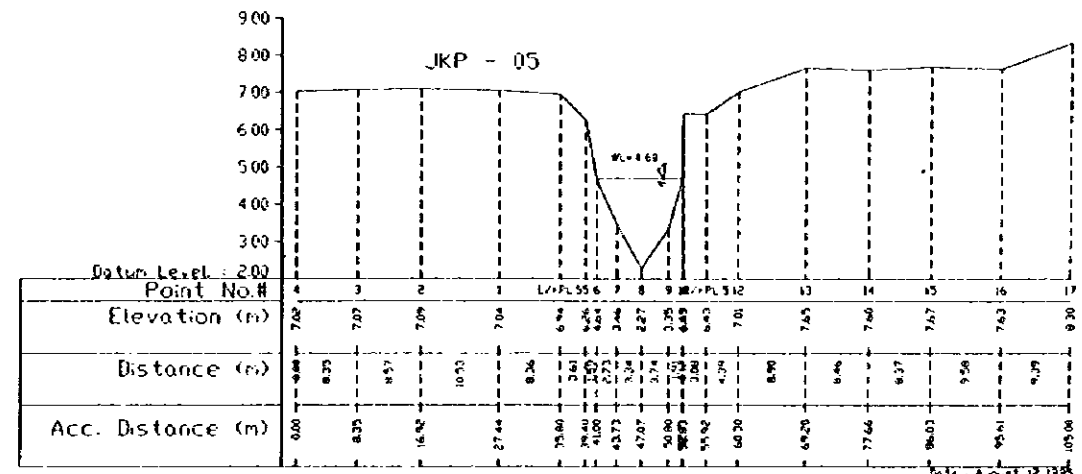
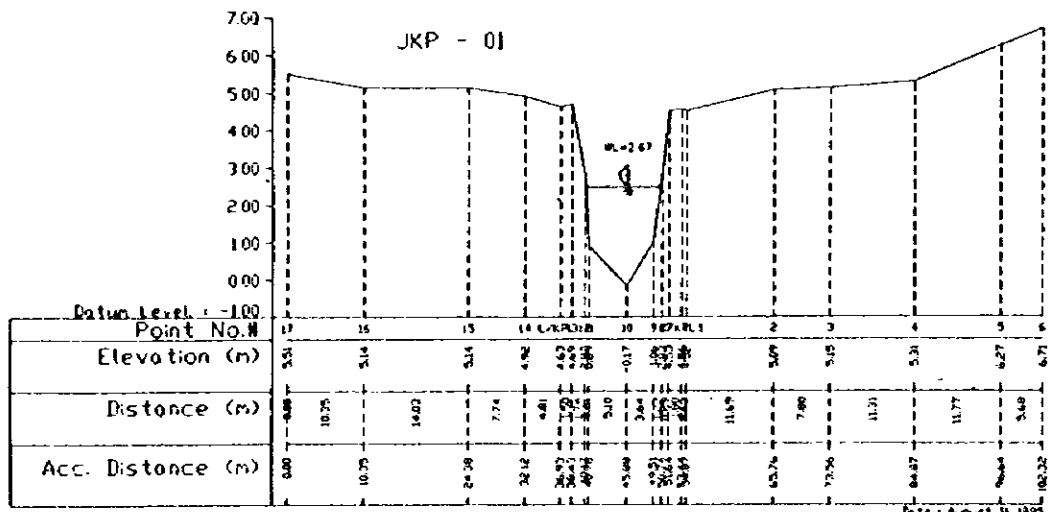
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **PASANGGRAHAN RIVER** Drawing Title : **LONGITUDINAL PROFILE**

| | | | |
|-----------------|-------------|-----------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| BAROND SOEDARTO | R. TORNAME | Horizontal 1 : 100000 | 1 of 1 |
| Signature | Date | Vertical 1 : 500 | |
| | 28.11.95 | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITG 177 = 43 136 meters
 The correlation between other system are :
 ITG 177 ± 0 = WPD - 0.975 meters = FP ± . meter

1 : 500 (IN METERS)

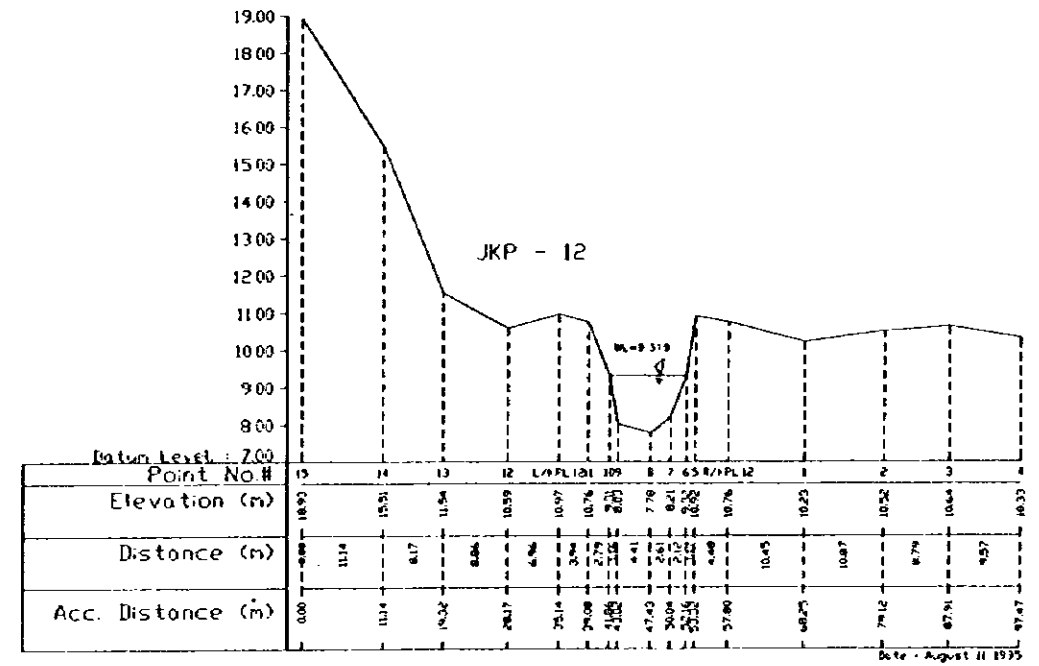
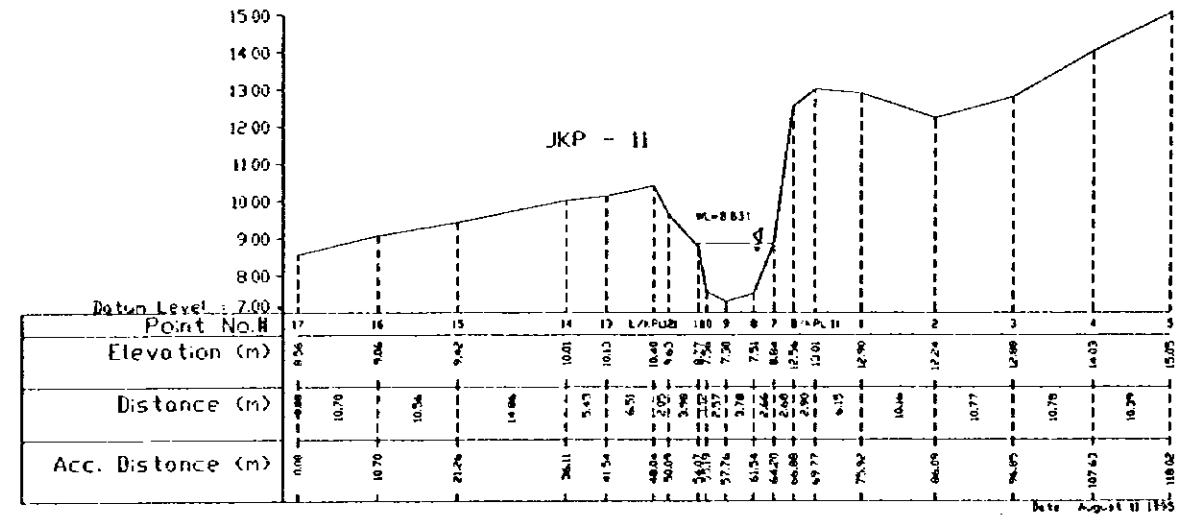
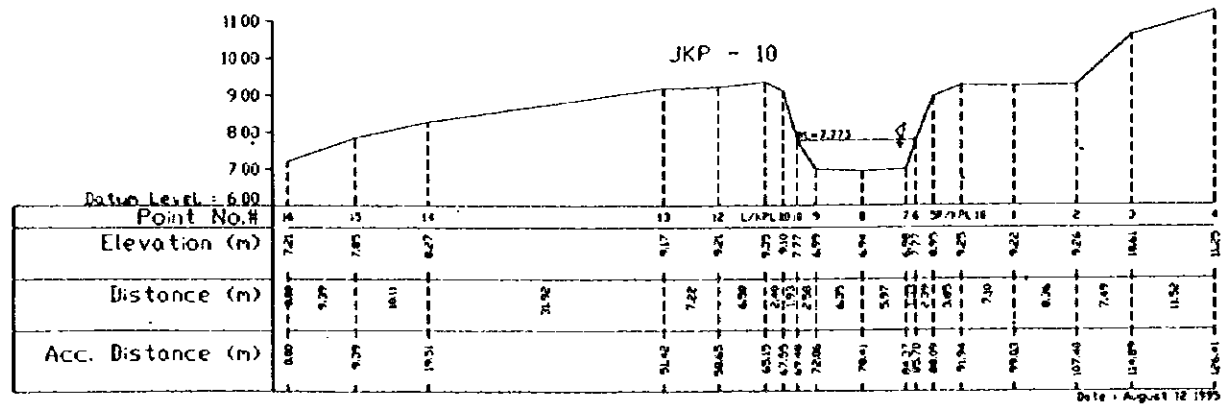
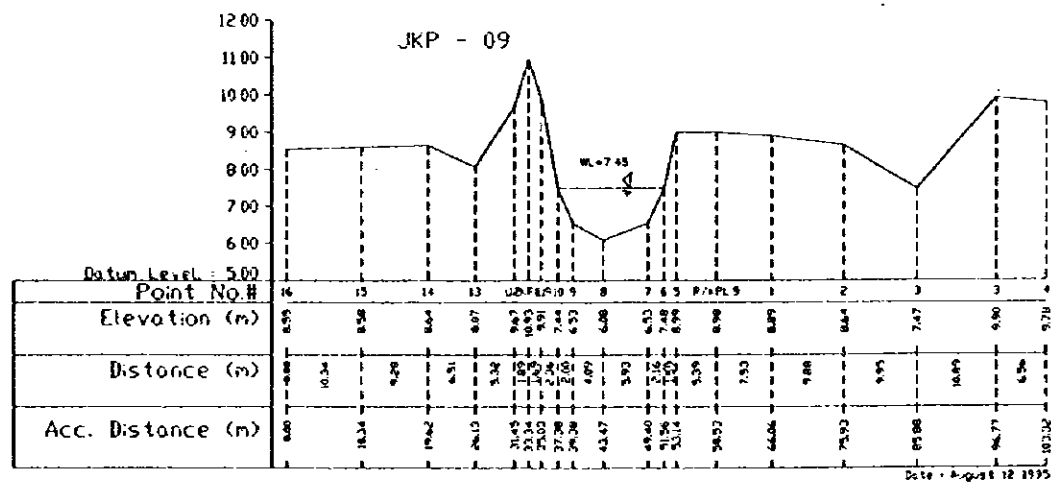
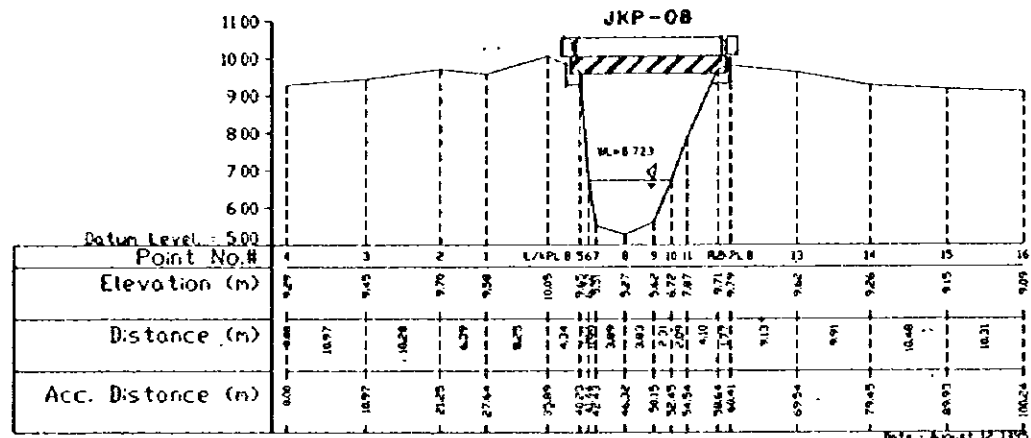
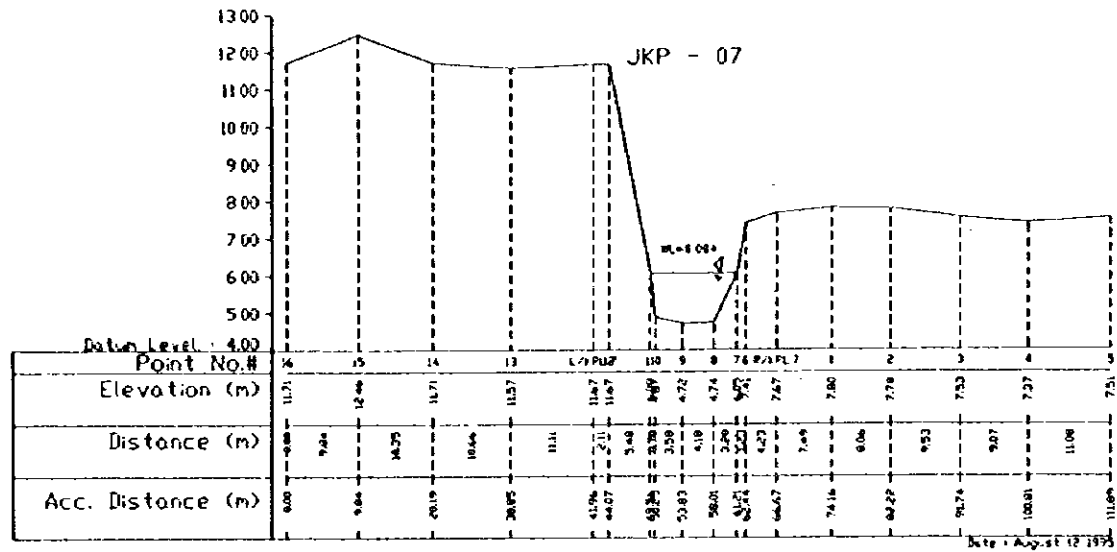
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

| | |
|---|---|
| Name of River : PASANGGRAHAN RIVER | Drawing Title : CROSS SECTION |
| Checked by : BIRMANO SOEPRADO | Approved by : I. ANU H. KOPANE |
| Scale : Horizontal 1 : 500 Vertical 1 : 100 | Sheet No : 1 of 10 |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

WIRATMAN & Associates
 JAKARTA - INDONESIA



Reference Point :
The Elevation is referred to TIG 177 = 40 136 meters
The correlation between other system are
TIG 177 ± 0 = KRP - 0975 meters = PP ± meter

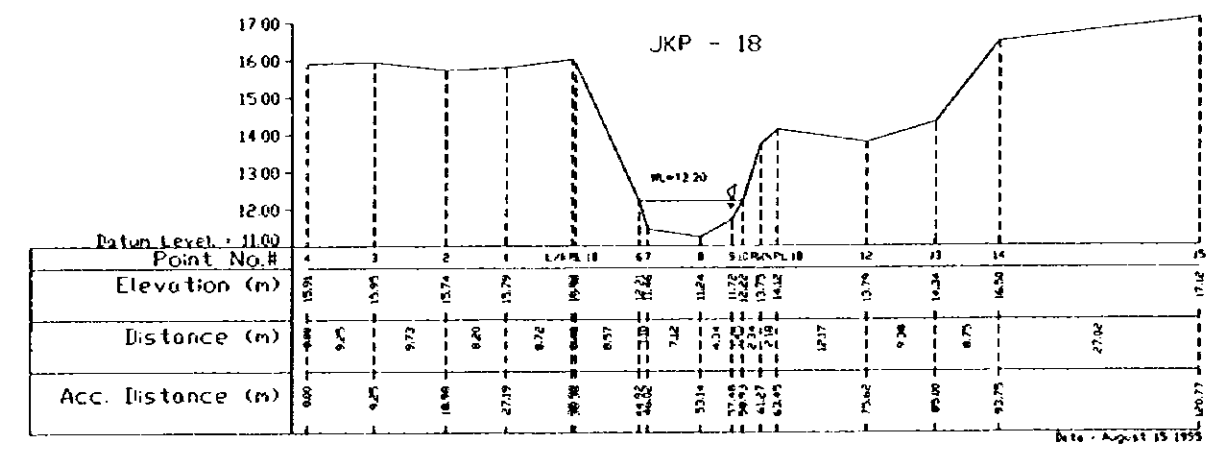
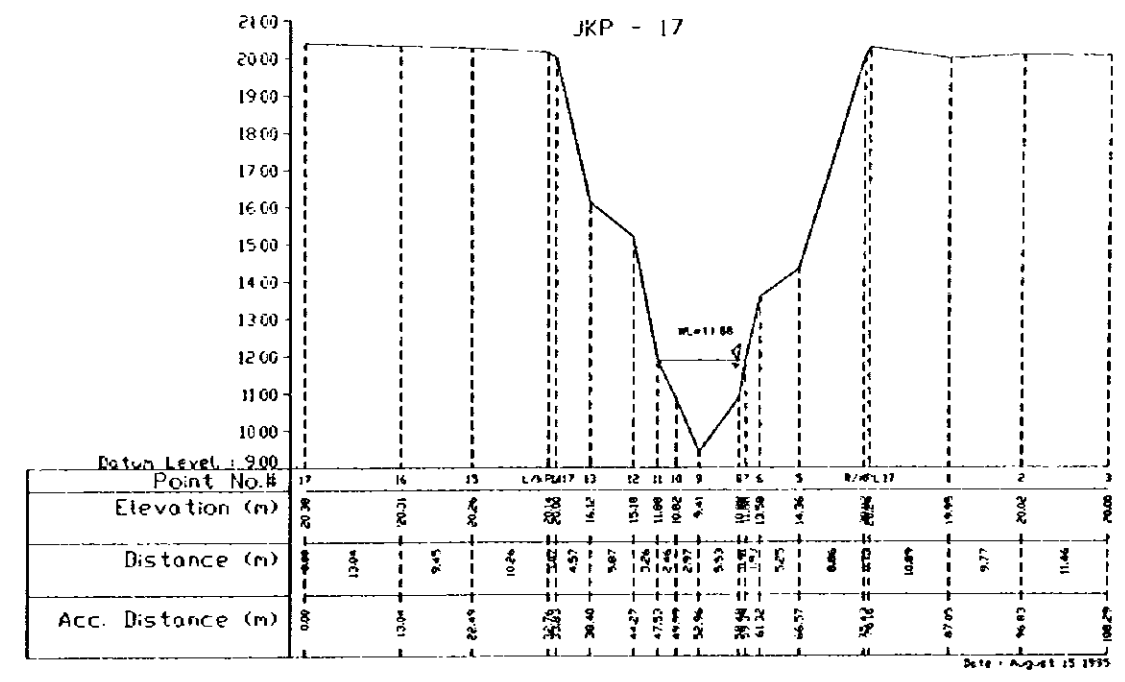
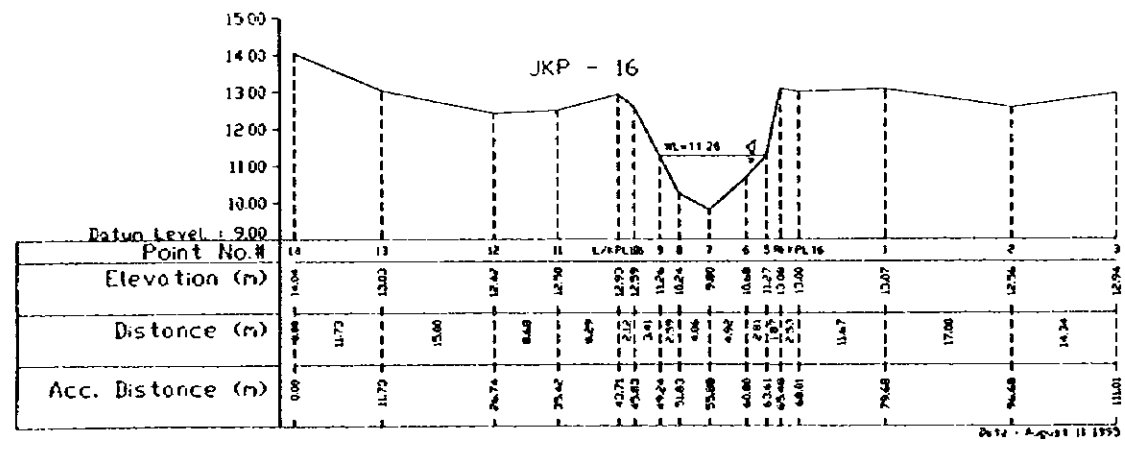
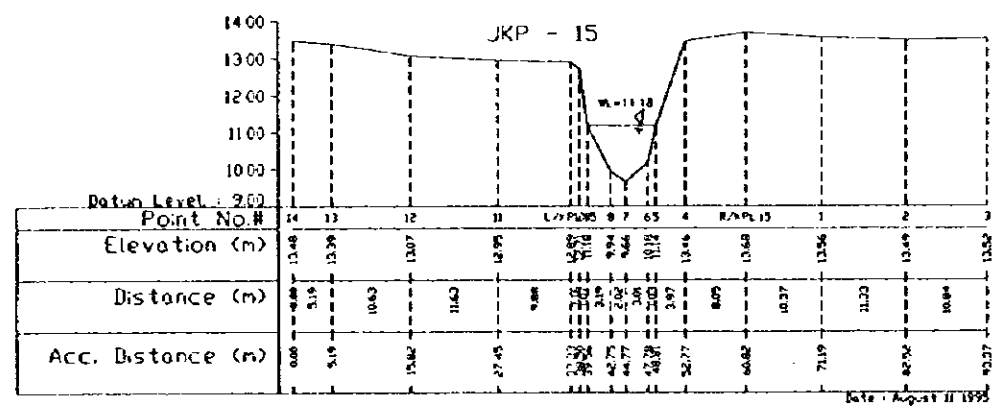
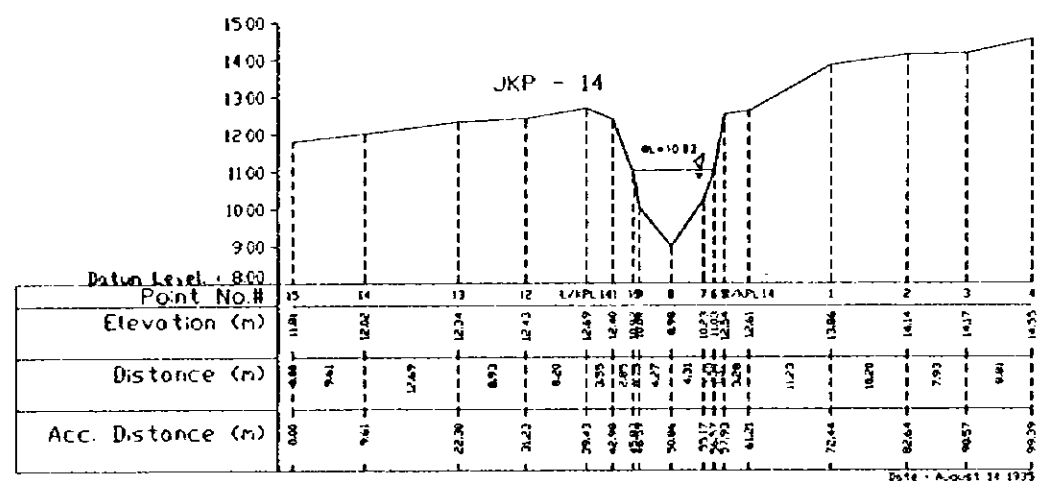
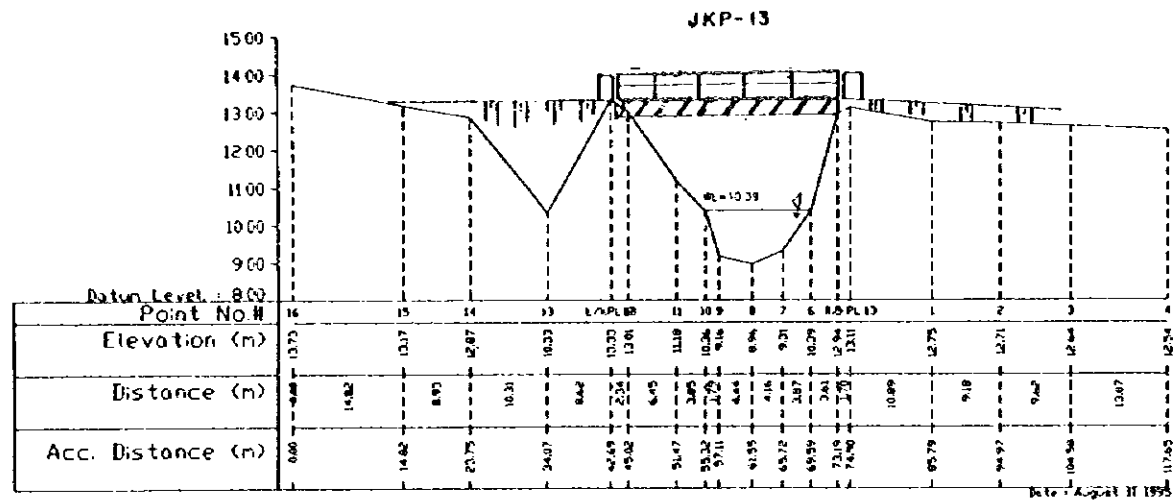
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

| | | | |
|------------------------------------|--|--|--|
| Name of River : PASANGGRAHAN RIVER | | Drawing Title : CROSS SECTION | |
| Checked by : [Signature] | | Approved by : [Signature] | |
| Date : 11-11-95 | | Scale : Horizontal 1 : 500 Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WYATMAN & Associates JAKARTA - INDONESIA

Sheet No : 2 of 10



Reference Point
 The Elevation is referred to TIG 177 = 43 136 meters
 The correlation between other system are
 TIG 177 & 0 = NWP = 0 973 meters = PP + . . . meter

1:100 (OF METERS)
 1 100 1000
 1:1000

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

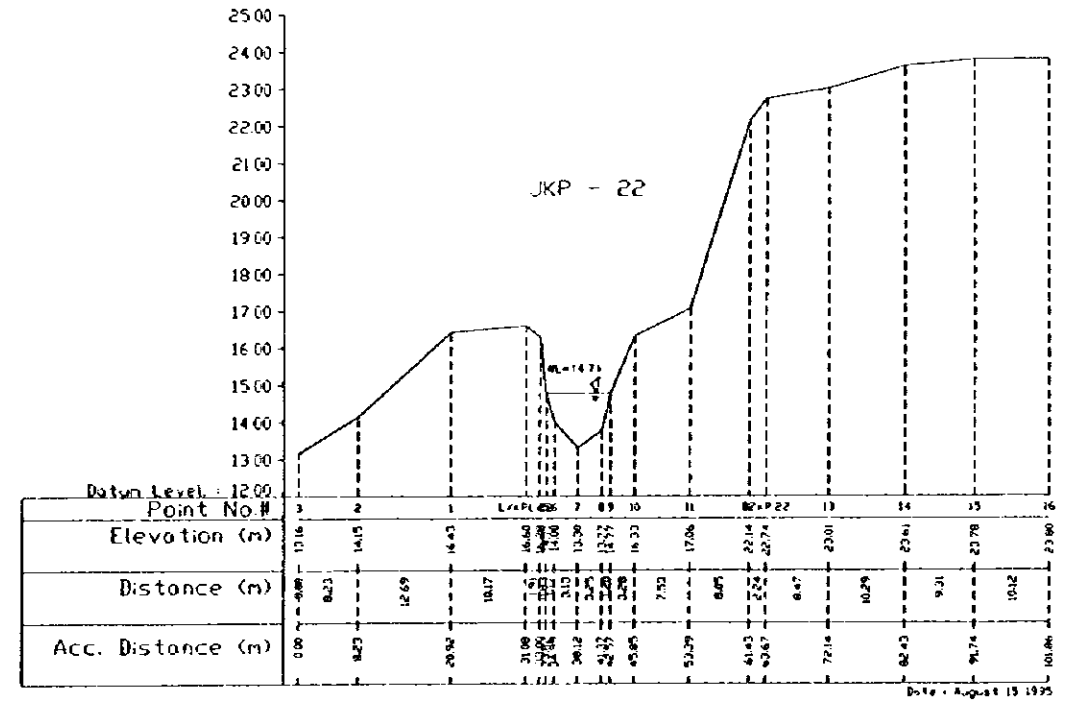
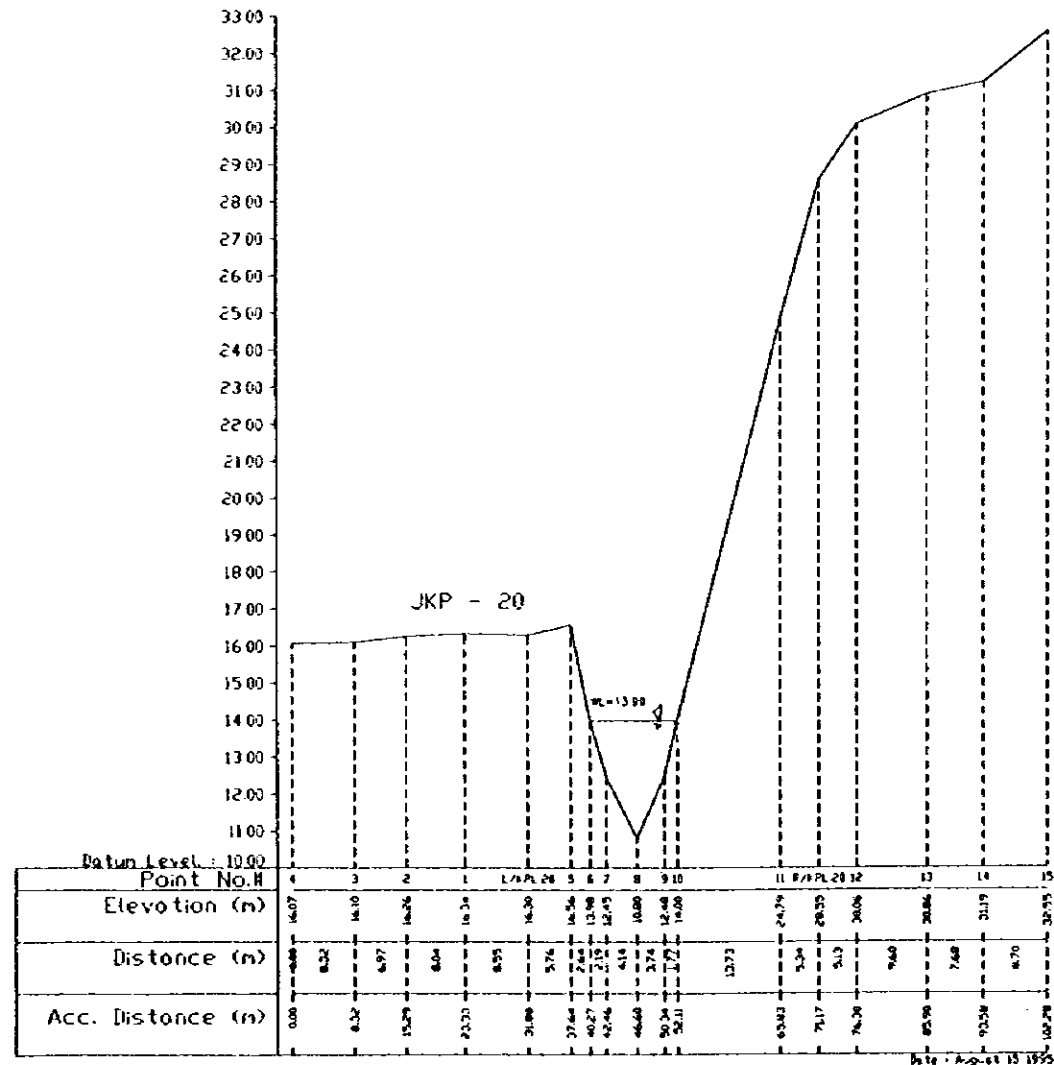
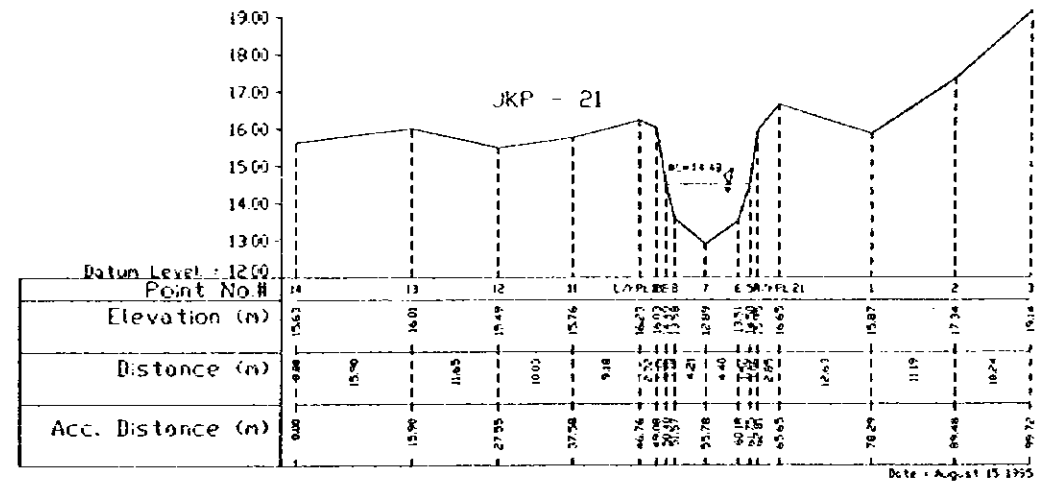
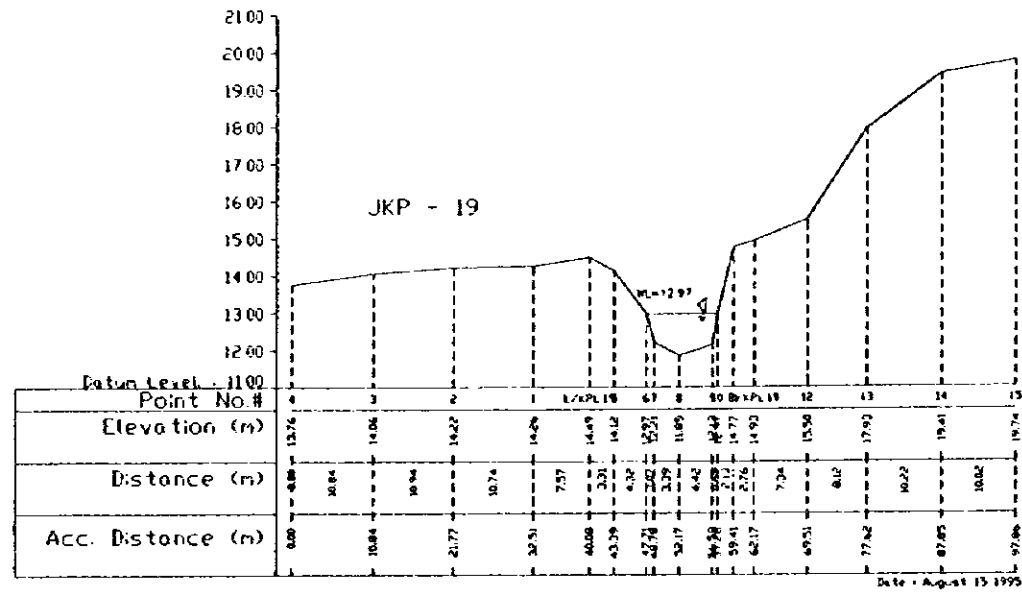
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **PASANGGRAHAN RIVER** Drawing Title : **CROSS SECTION**

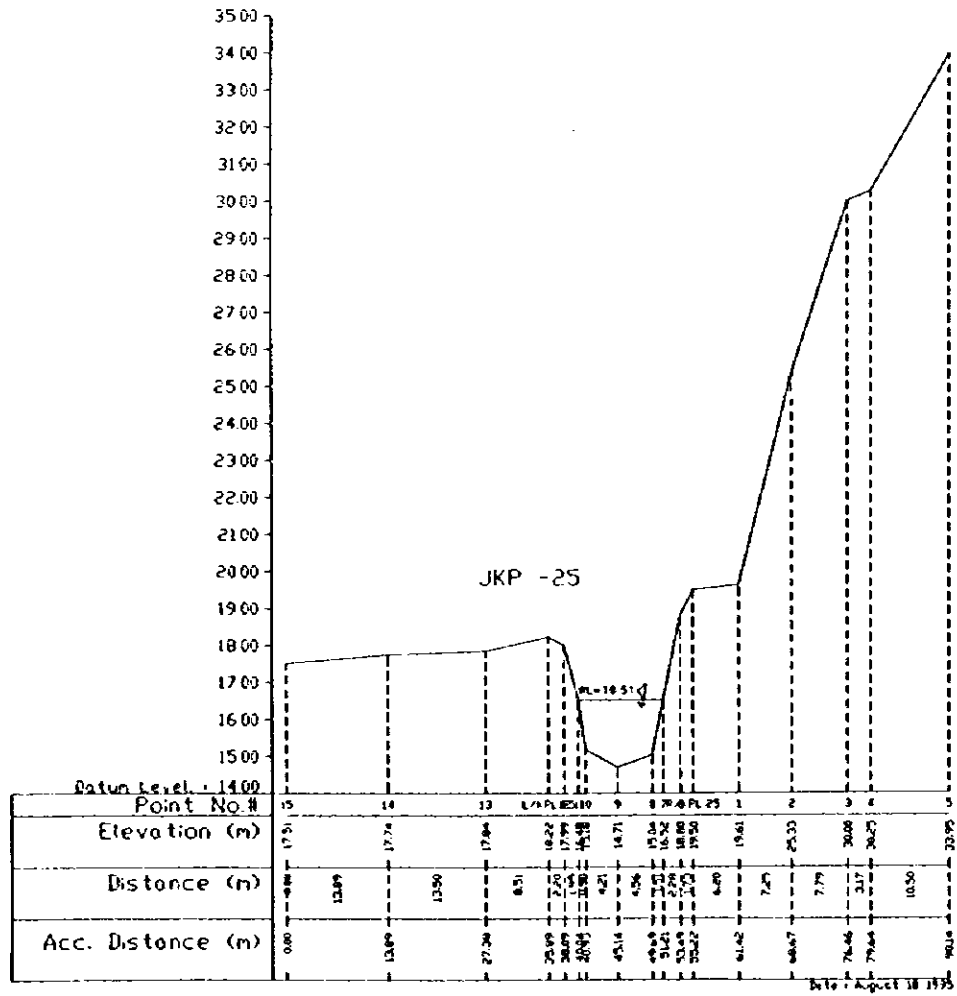
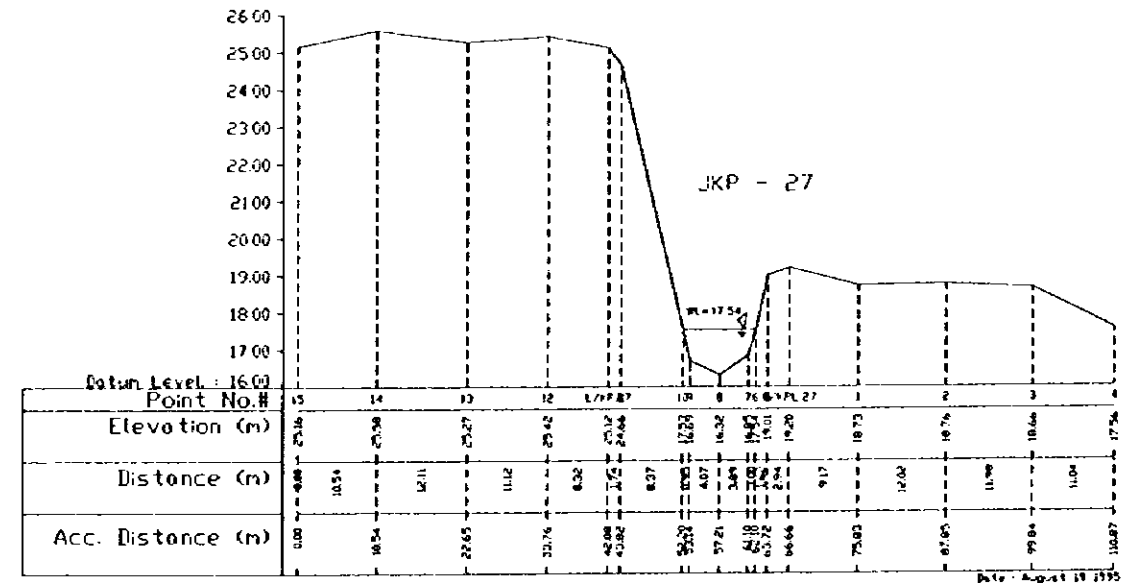
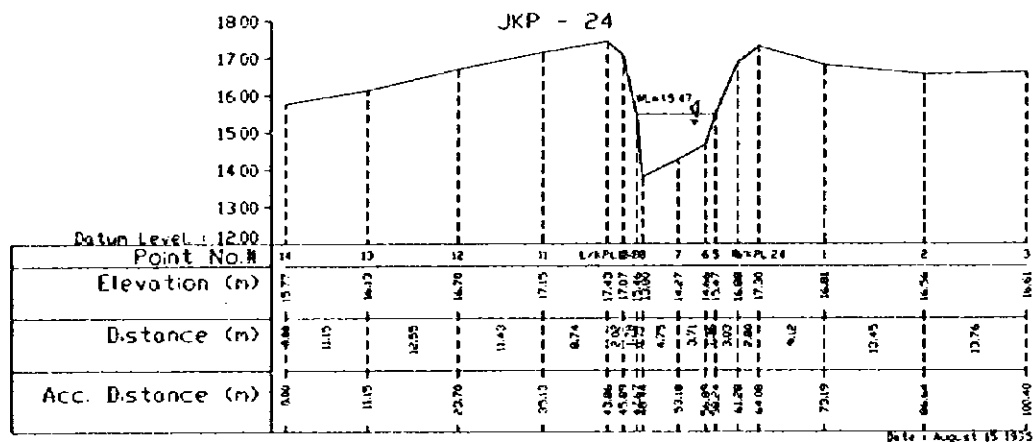
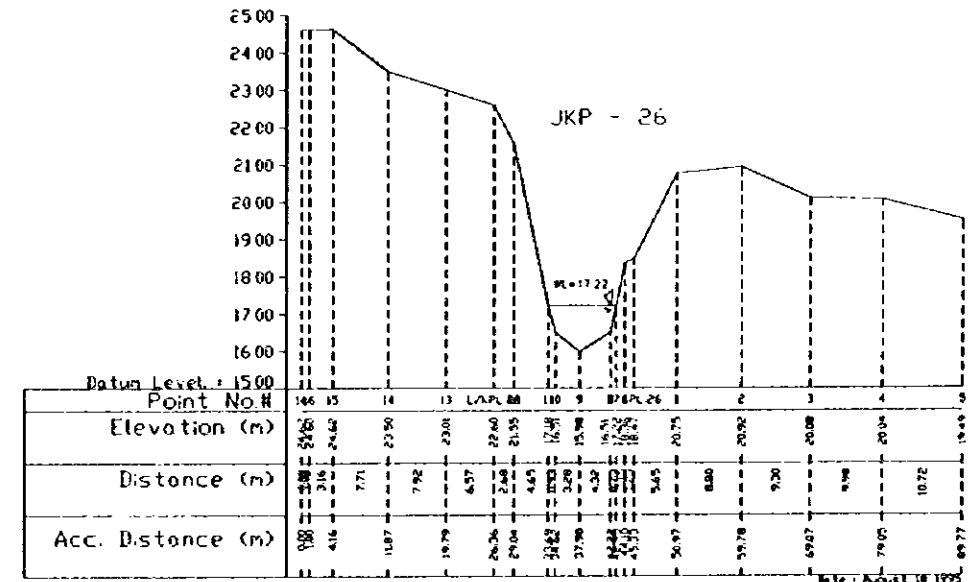
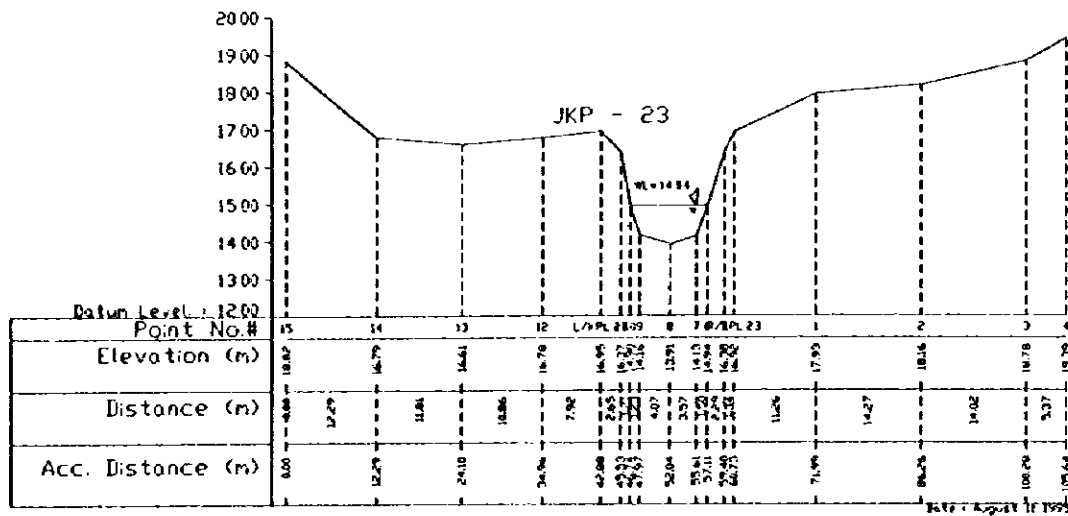
| | | | |
|---|--|---|----------------------|
| Checked by Name: BAMBANG SOEDARTO | Approved by Name: K. TORPANE | Scale Horizontal : 1 : 500 Vertical : 1 : 100 | Sheet No. 3 of 10 |
|---|--|---|----------------------|

Date : **14.8.95** **21.11.95**

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



| | | | |
|---|--|---|----------------------|
| Reference Point: The Elevation is referred to TIG 177 = 40 136 meters The correlation between other system are TIG 177 ± 0 = NWP - 0.975 meters = PP ± meter | | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : PASANGGRAHAN RIVER | | Drawing Title : CROSS SECTION | |
| Checked by: Name: <i>[Signature]</i> Date: <i>[Signature]</i> | Approved by: Name: <i>[Signature]</i> Date: <i>[Signature]</i> | Scale: Horizontal 1 : 500 Vertical 1 : 100 | Sheet No: 4 of 10 |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WIRATMAN & Associates JAKARTA - INDONESIA | |



Reference Point :
 The Elevation is referred to FIG 177 = 40.136 meters
 The correlation between other system are :
 FIG 177 ± 0 = HWP = 0.975 meters = PP 4 ± 0.00 meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

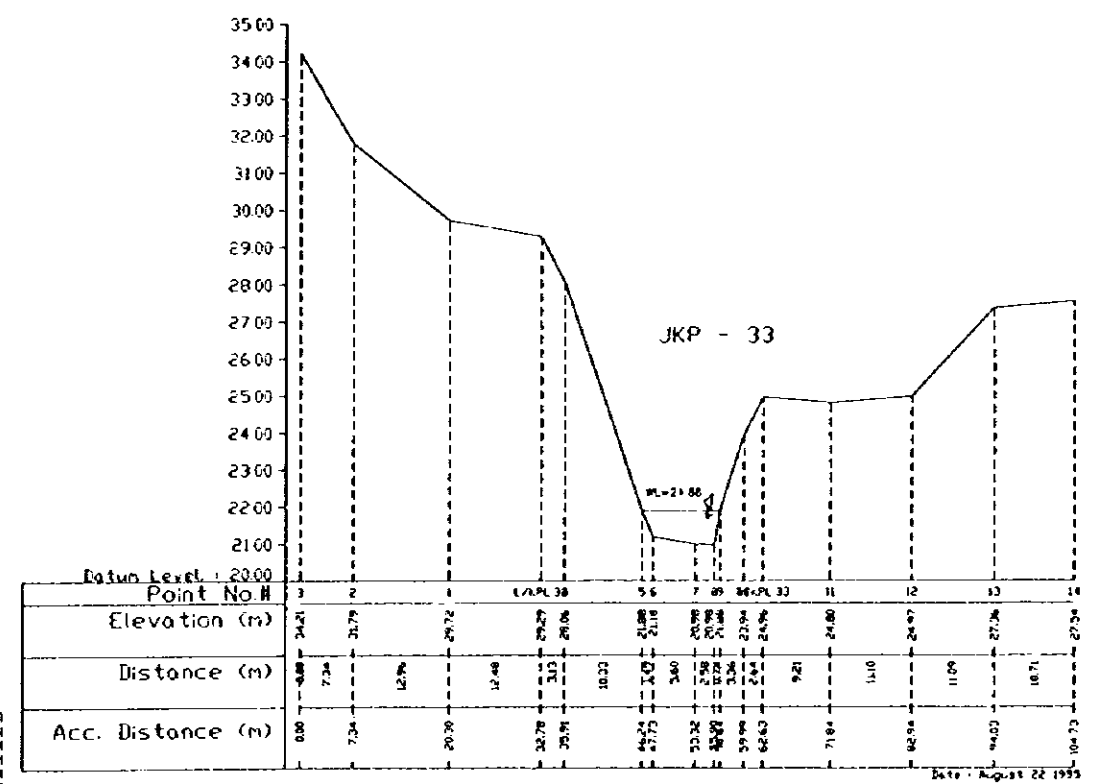
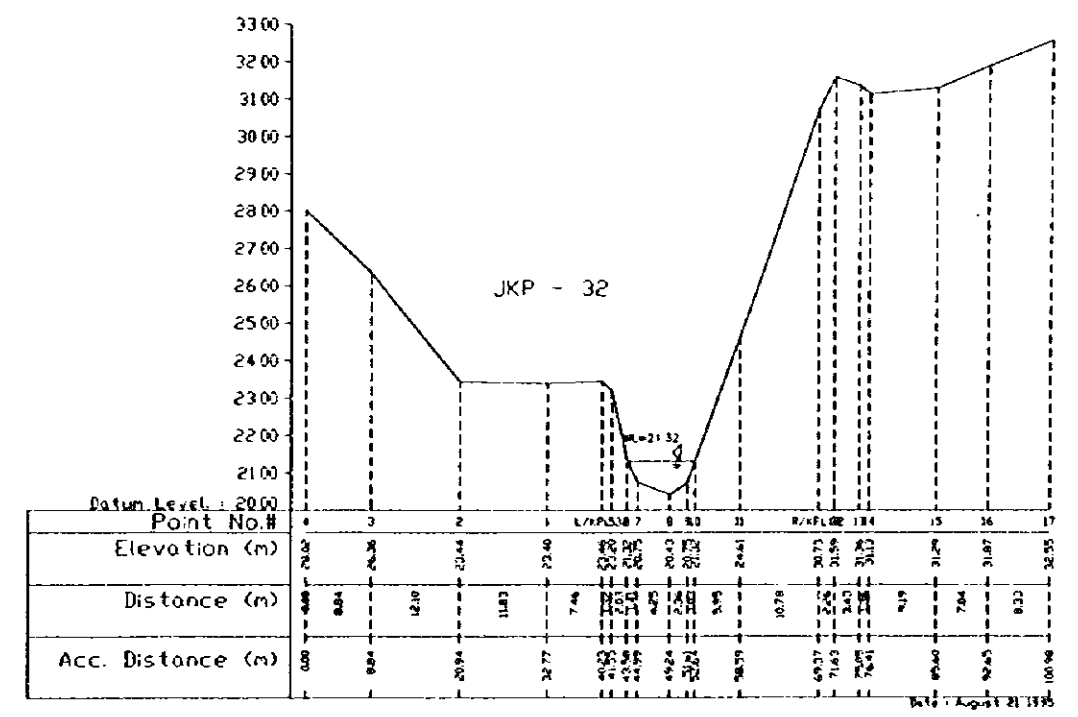
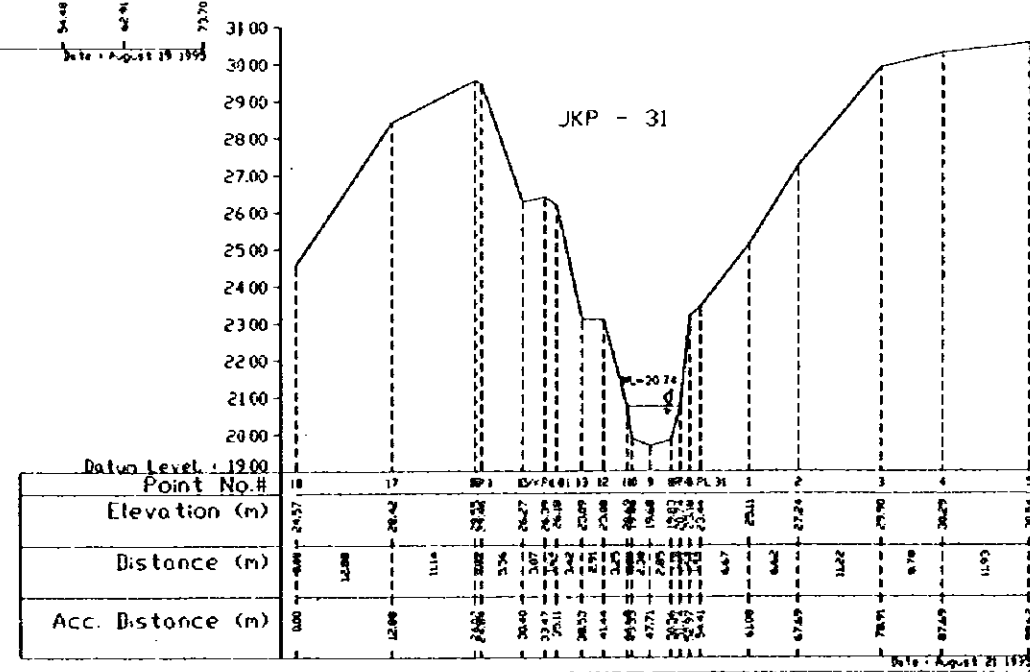
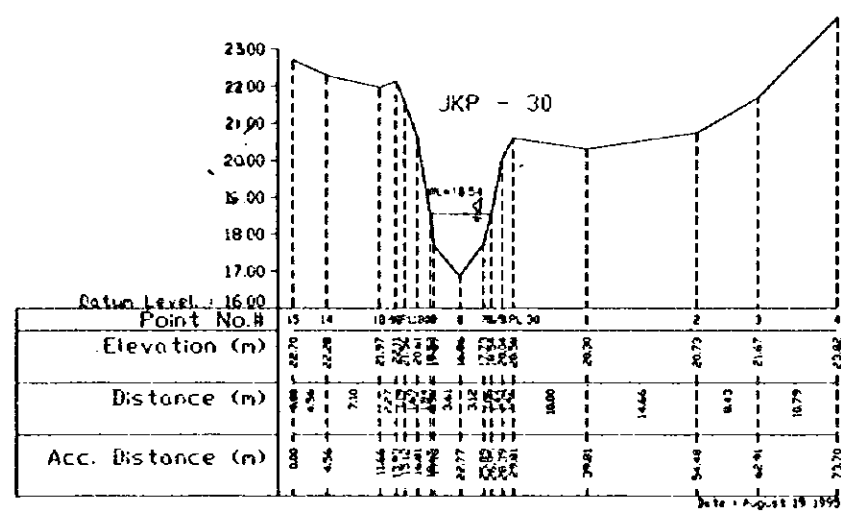
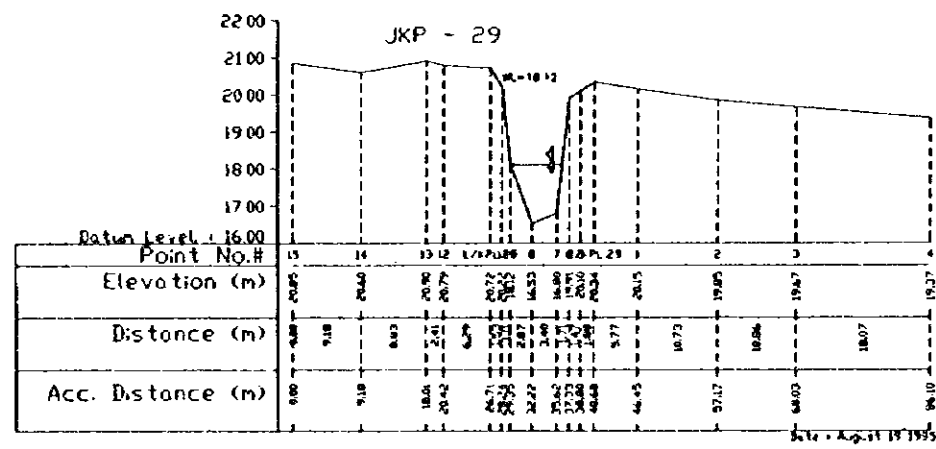
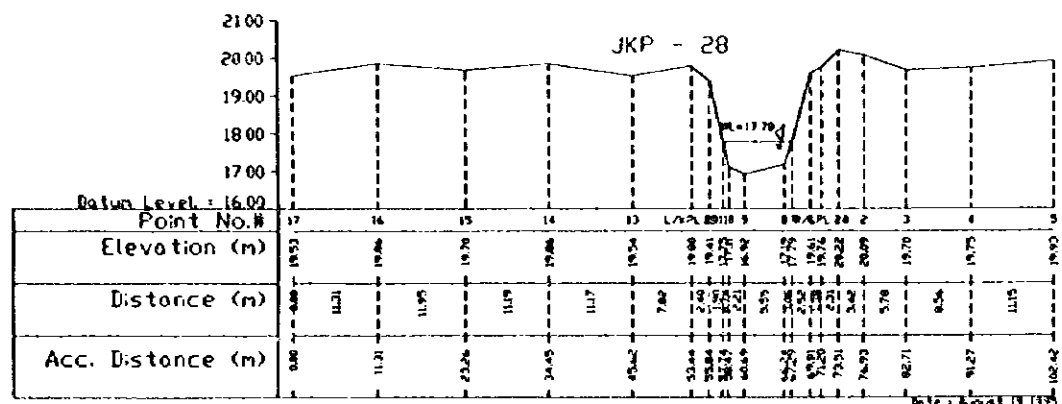
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : PASANGGRAHAN RIVER
 Drawing Title : CROSS SECTION

Checked by : [Signature]
 Approved by : [Signature]

Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 5 of 10

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRAJAMAN & Associates JAKARTA - INDONESIA



Reference Point :
The Elevation is referred to TIG 177 = 40.136 meters
The correlation between other system are
TIG 177 ± 0 = MWK = 0.875 meters = PP ± ... meter

1:100 (in meters)

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

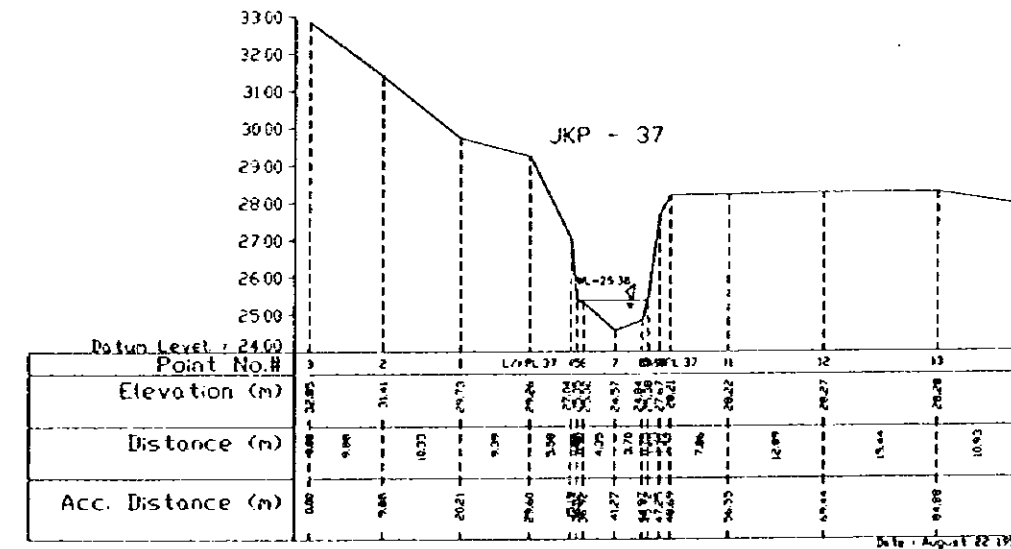
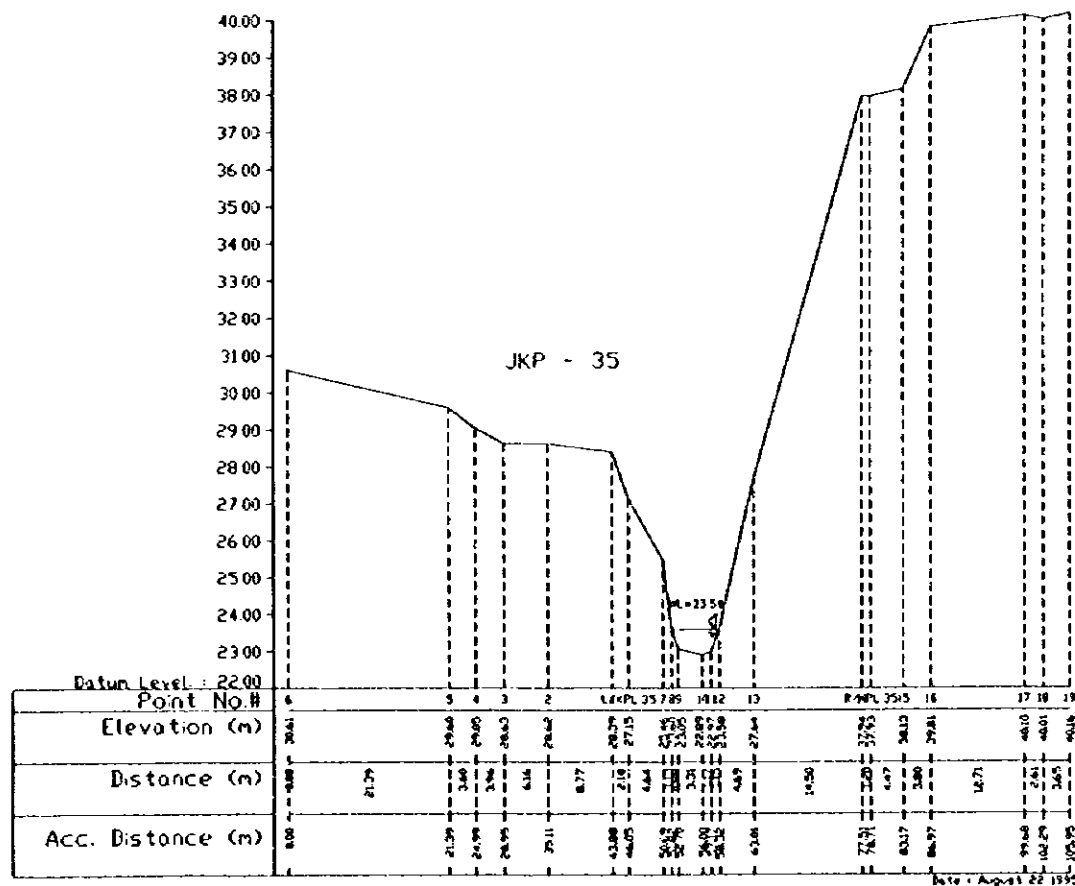
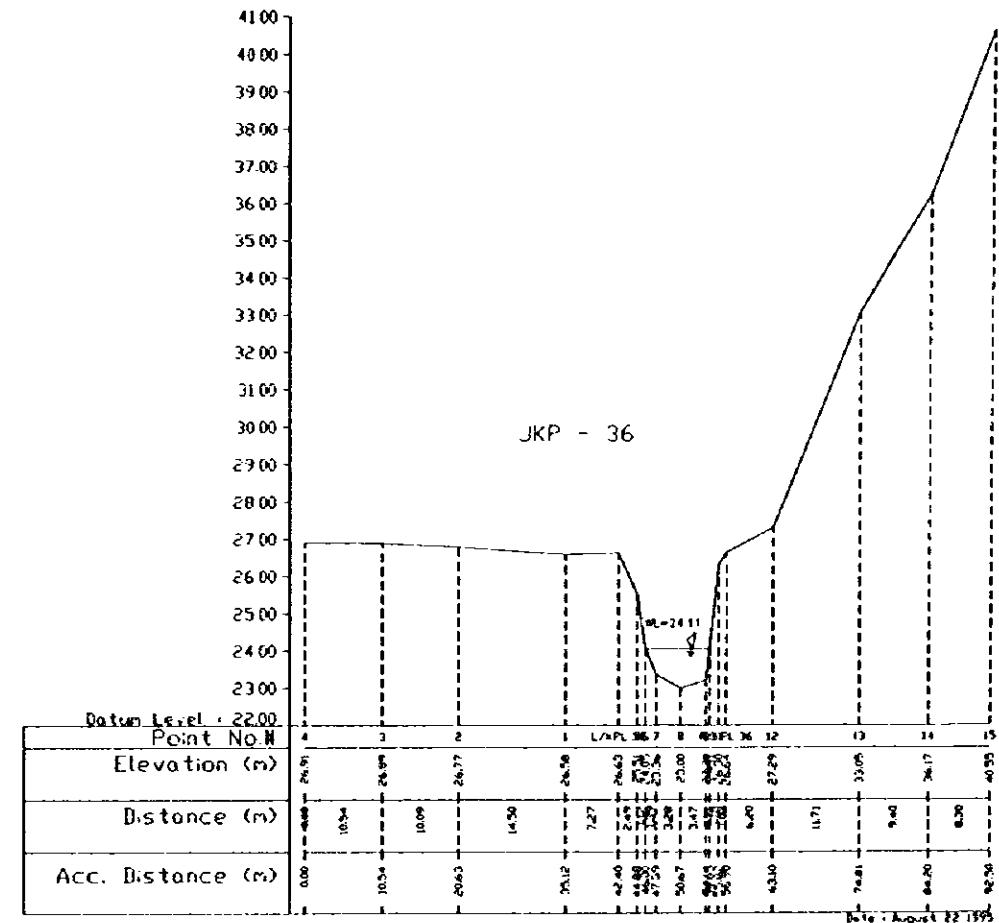
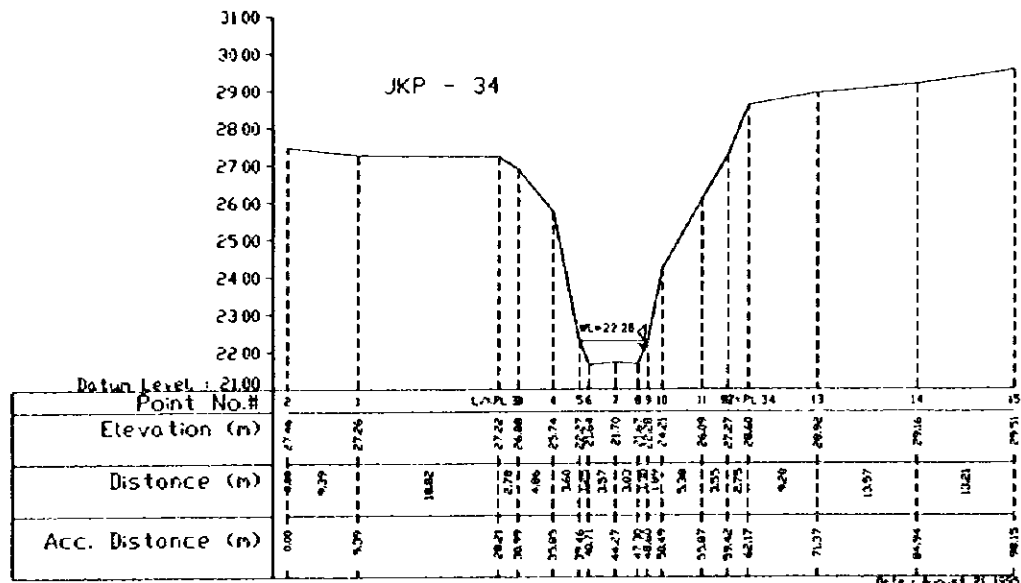
Name of River : PASANGGRAHAN RIVER
Drawing Title : CROSS SECTION

Checked by : [Signature]
Approved by : [Signature]

Scale : Horizontal 1 : 500
Vertical 1 : 100

Sheet No : 6 of 10

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIRATAMA & Associates
JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to TIG 177 = 40.156 meters
 The correlation between other system are:
 TIG 177 ± 0 = NWP - 0.975 meters = PP + 1 meter

(IN METERS)
 Scale: 1:500
 No = 1500

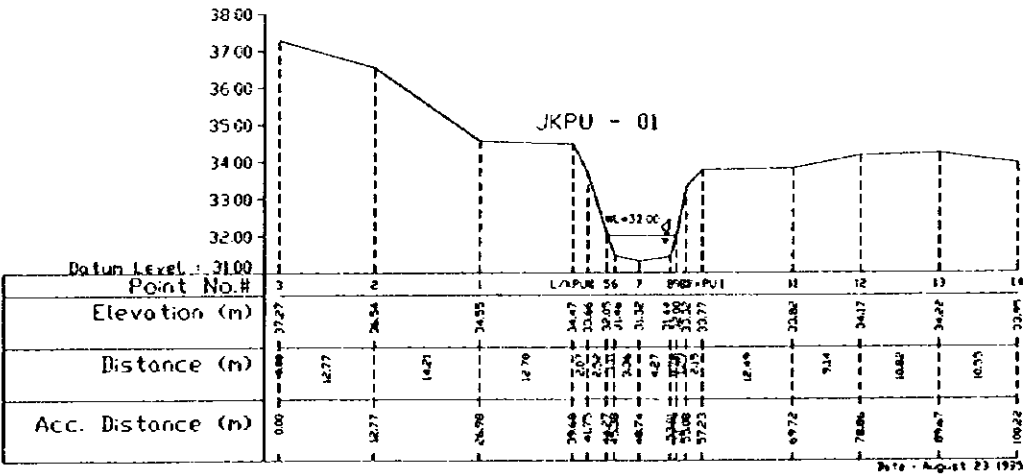
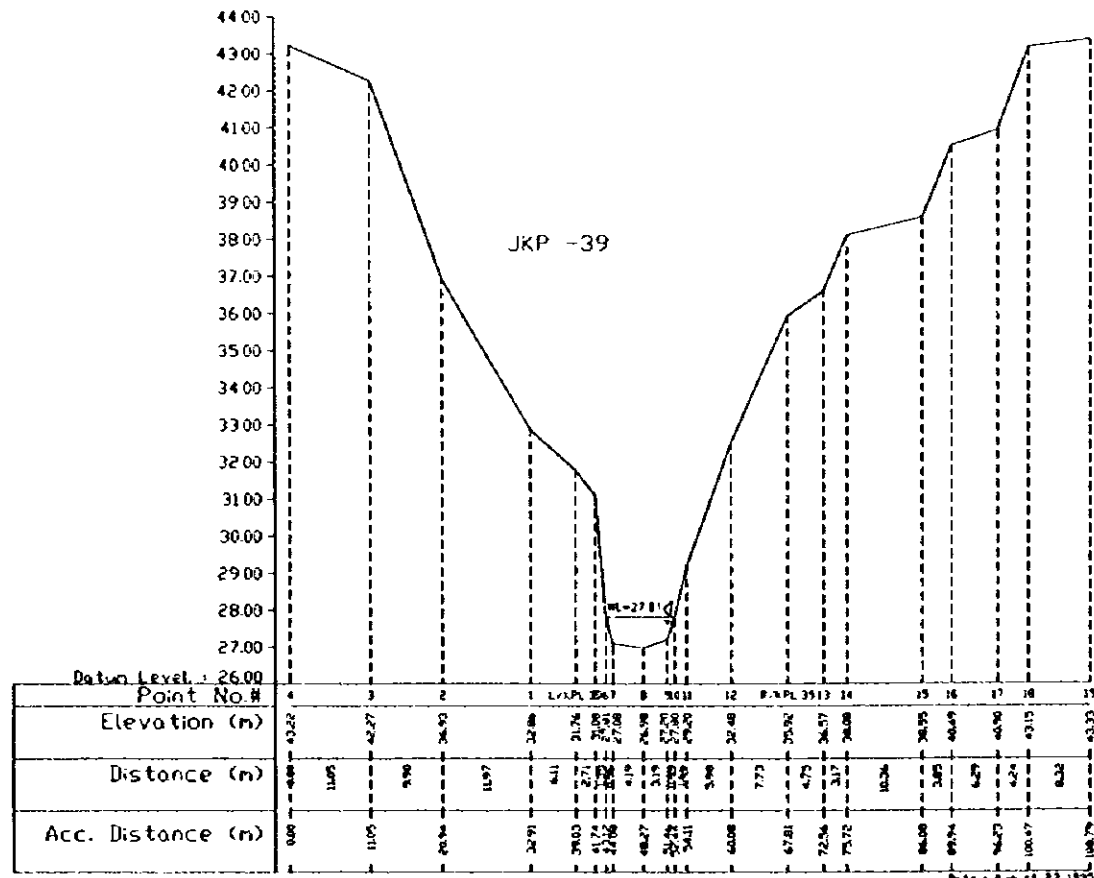
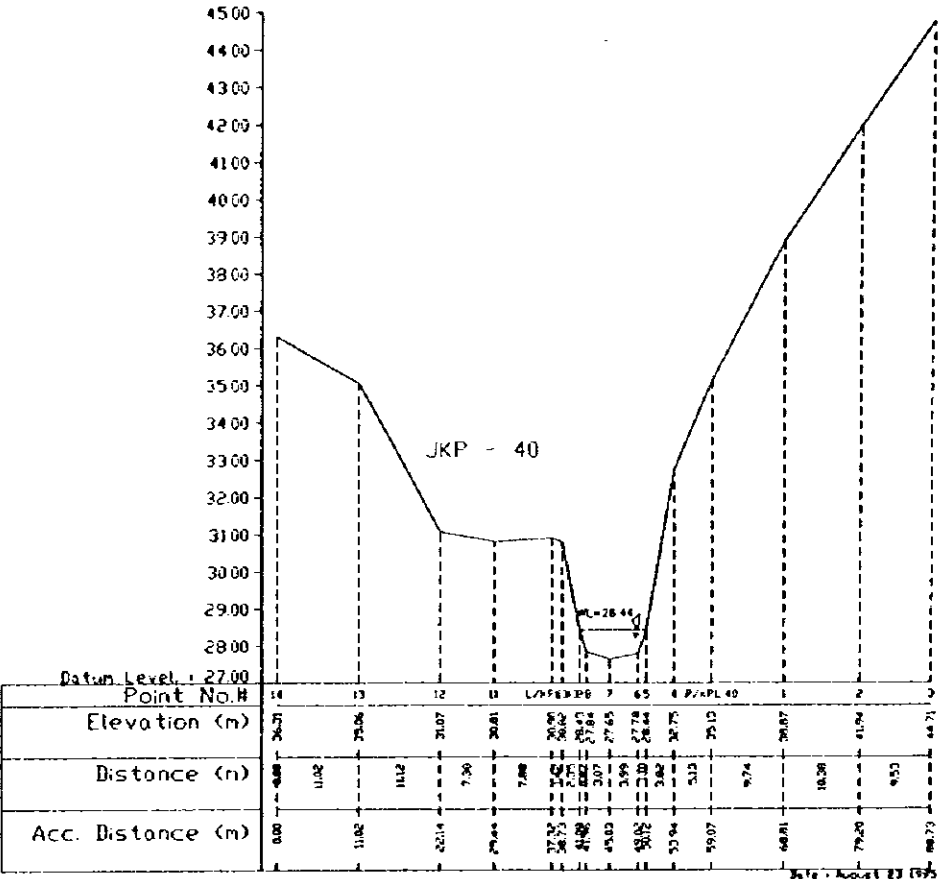
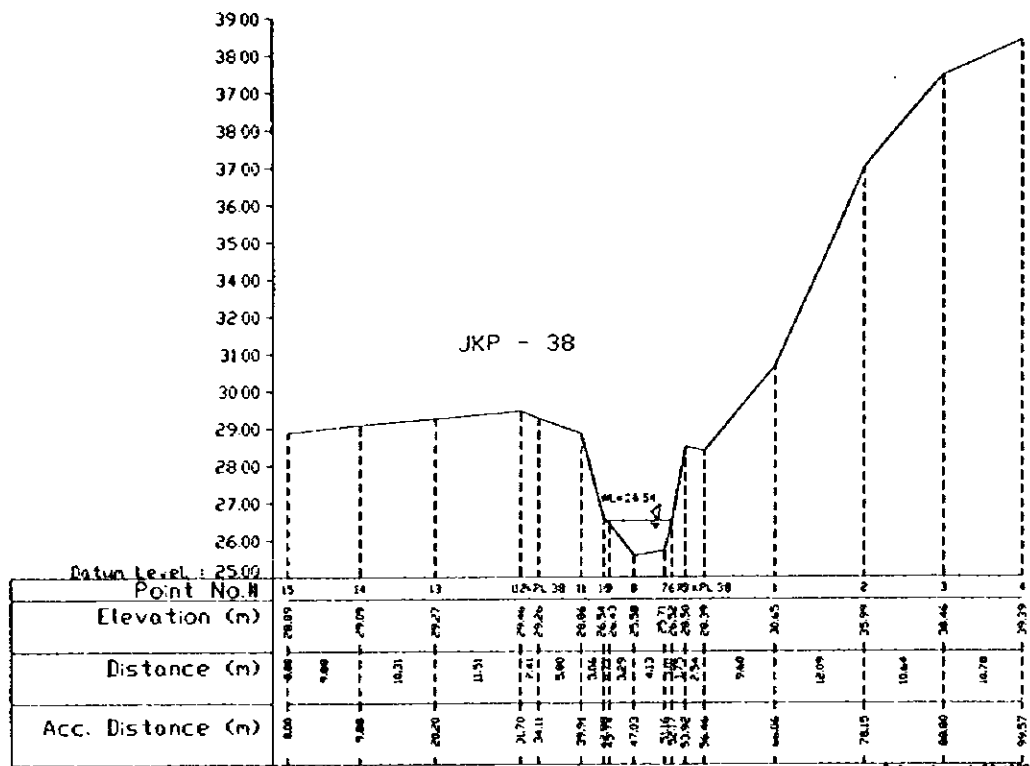
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISAJANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **PASANGGRAHAN RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|---|---|---|---------------------|
| Checked by Name: B. SUGO Signature: [Signature] Date: 11.11.95 | Approved by Name: A. ROMAN Signature: [Signature] Date: 21.11.95 | Scale Horizontal: 1 : 500 Vertical: 1 : 100 | Sheet No 7 of 10 |
|---|---|---|---------------------|

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to FIG 177 = 40.136 meters
 The correction between other system are:
 FIG 177 ± 0 = NWP = 0.875 meters = PP ± _____ meter

(IN METERS)
 1 : 500
 0 1 2 3 4 5 6 7 8 9 10

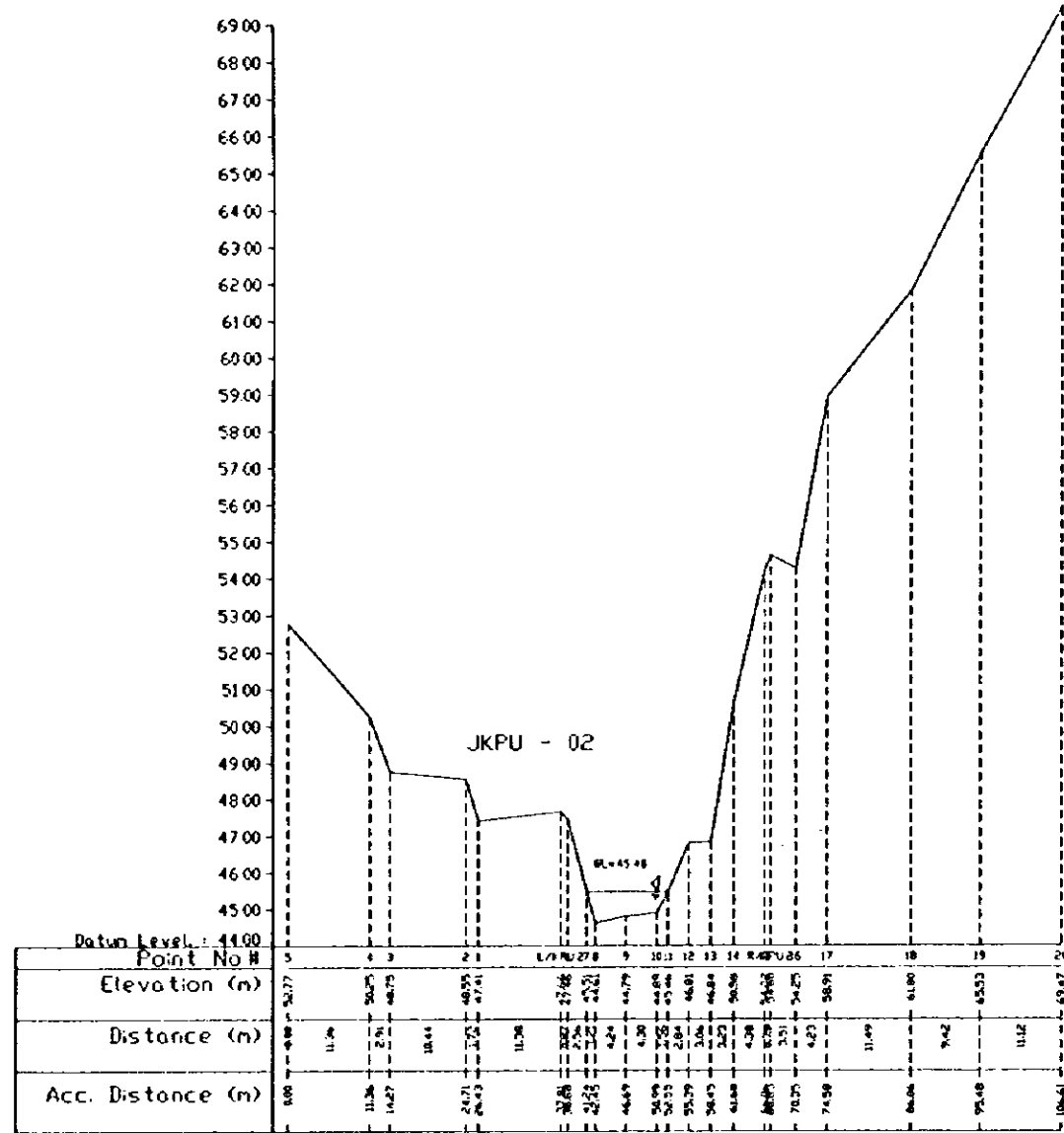
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

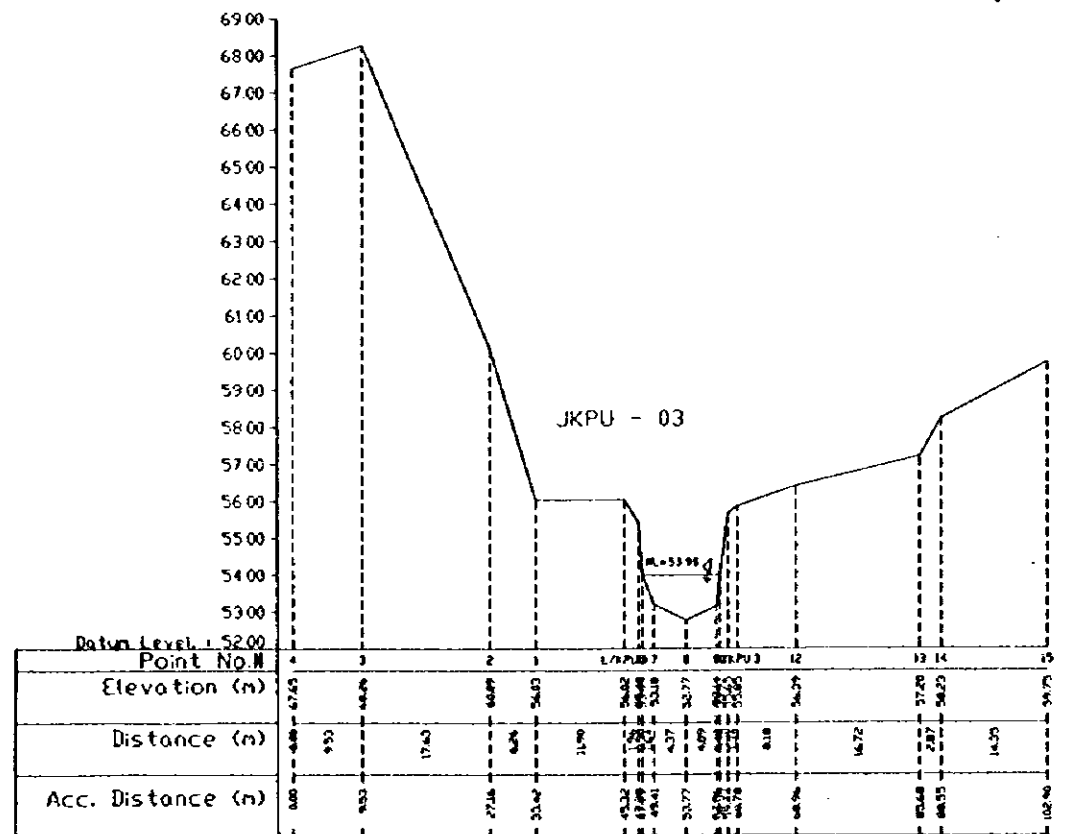
Name of River : PASANGGRAHAN RIVER
 Drawing Title : CROSS SECTION

Checked by: [Signature]
 Approved by: [Signature]
 Scale: Horizontal 1 : 500, Vertical 1 : 100
 Sheet No.: 8 of 10

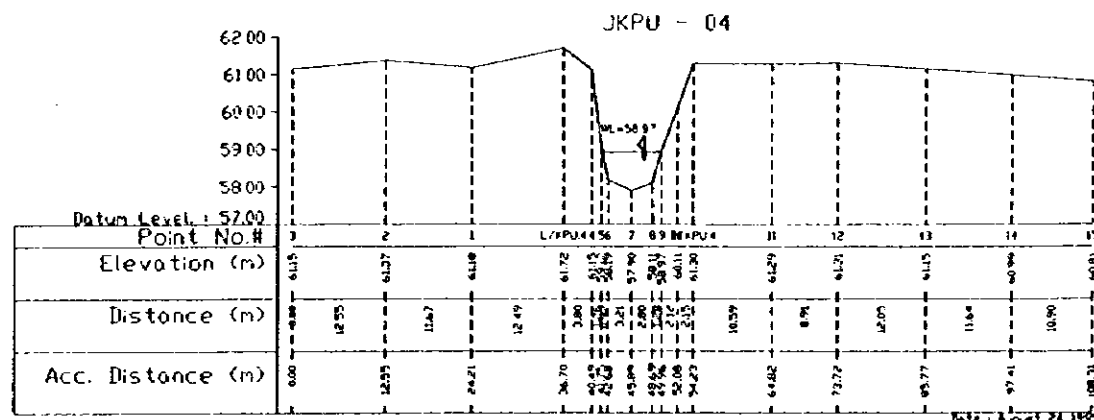
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
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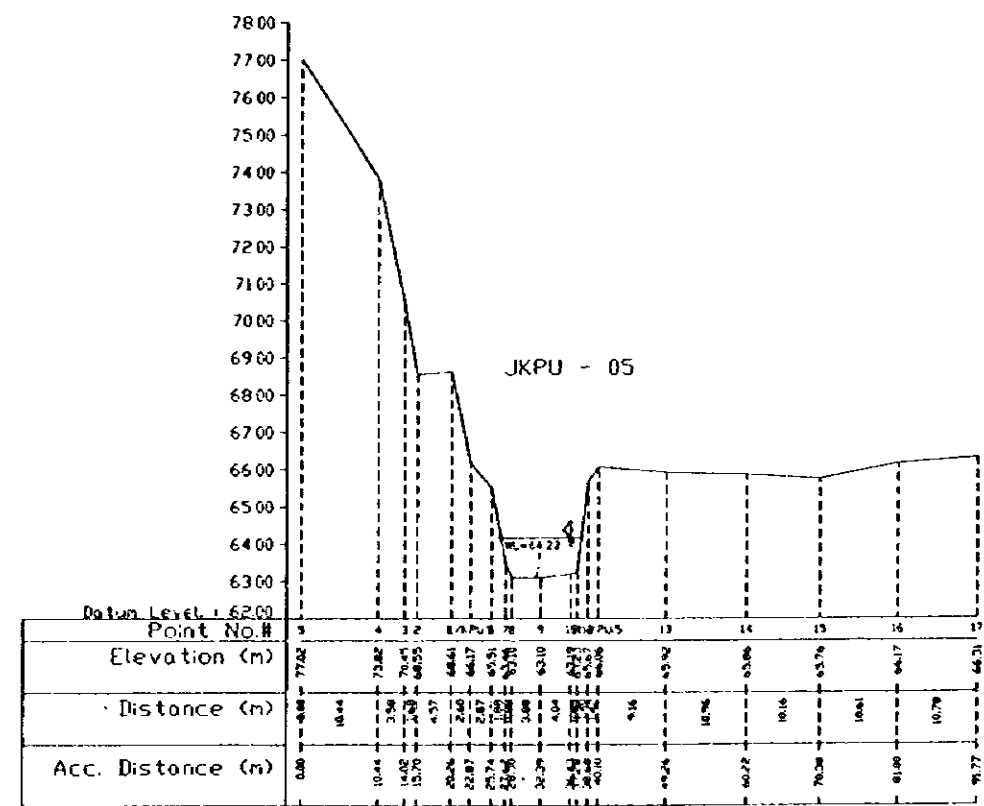
Date: August 24 1995



Date: August 27 1995



Date: August 24 1995



Date: August 25 1995

Reference Point:
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 The correlation between other system are
 TIG 177 ± 0 = HSP - 0.875 meters = PP ± 1 meter

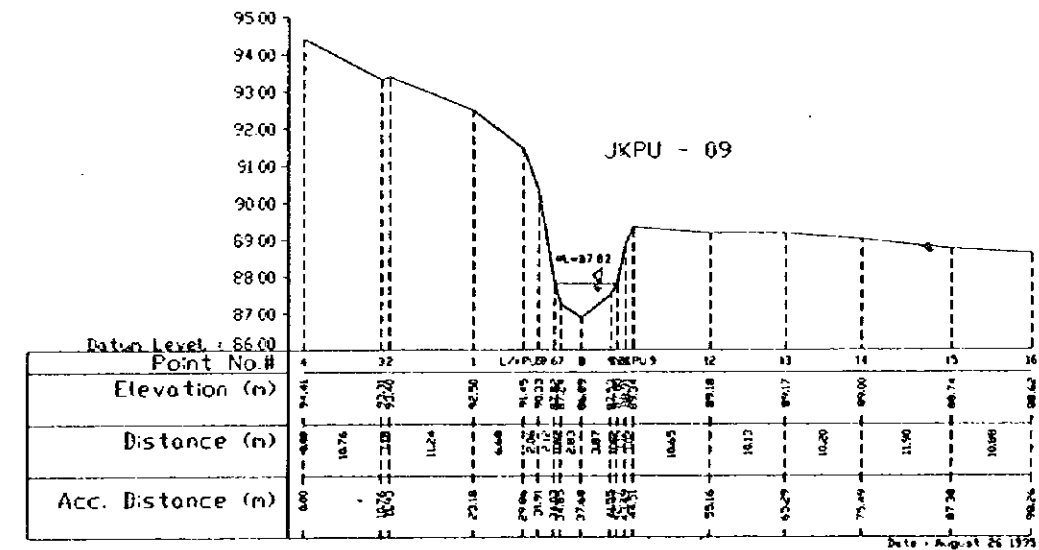
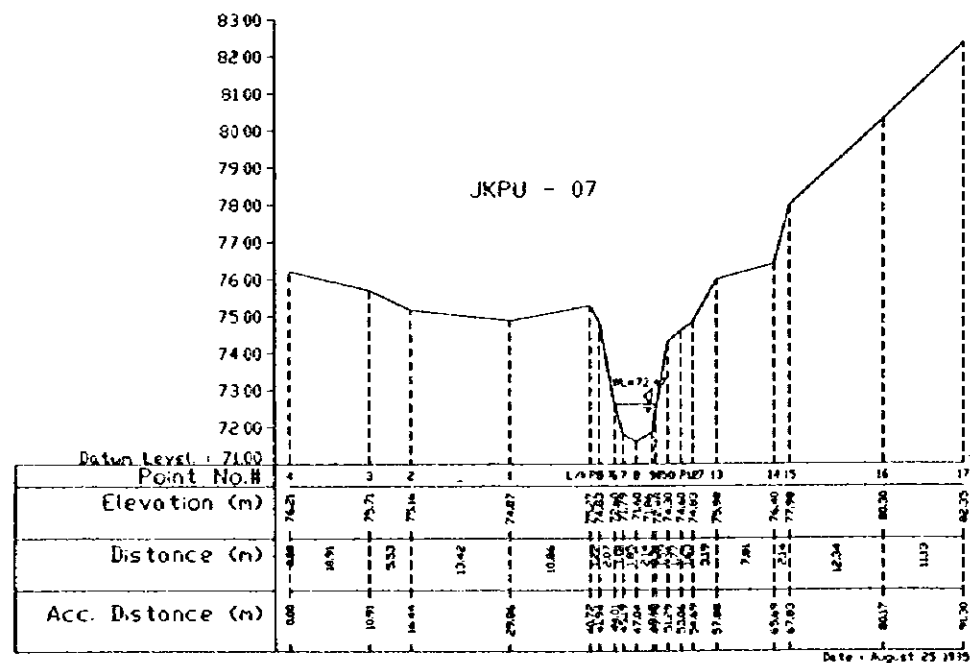
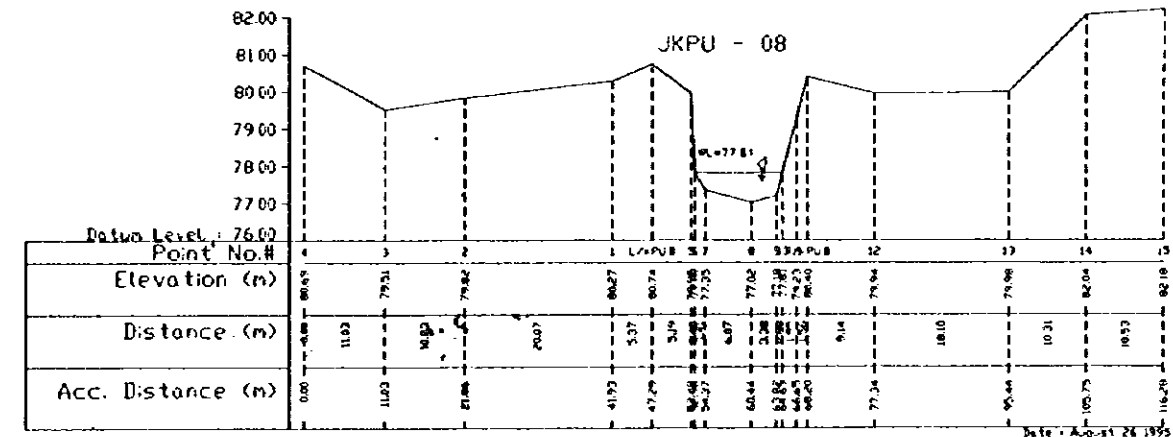
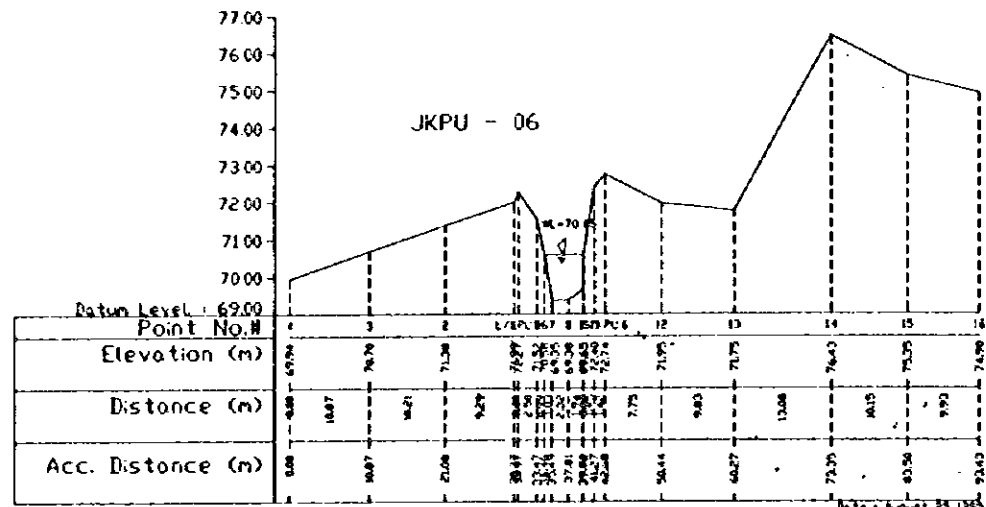
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : PASANGGRAHAN RIVER
 Drawing Title : CROSS SECTION

Checked by : SOEPARTO
 Approved by : K. TOPANE
 Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 9 of 10

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 WILMANN & Associates
 JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITC 177 = 42136 meters
 The correlation between other system are
 ITC 177 ± 0 = ANP - 0.975 meters = PP + ... meter

(IN METERS)

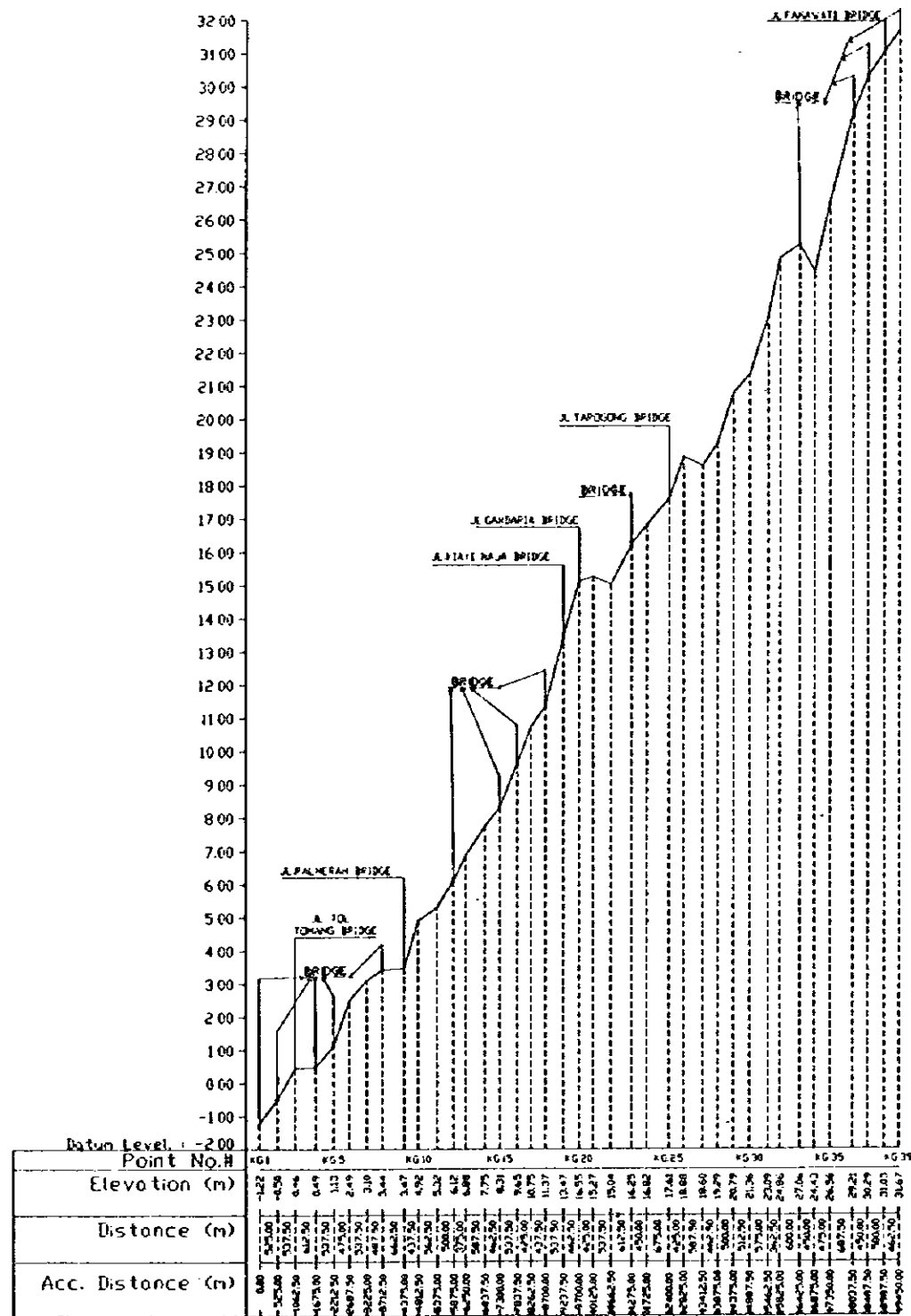
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : PASANGGRAHAN RIVER
 Drawing Title : CROSS SECTION

| | | | |
|------------|-------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| BRACHO | K. TOFANE | Horizontal 1 : 500 | 10 of 10 |
| Signature | Date | Vertical 1 : 100 | |

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 WIBATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 (TIG 177 = 40136 meters)
 The correlations between other system are
 TIG 177 ± 0.0 = NWP - 0.975 meters = PP ± . . . meters

(IN METERS)
 0 1000 2000 4000
 1 : 100000

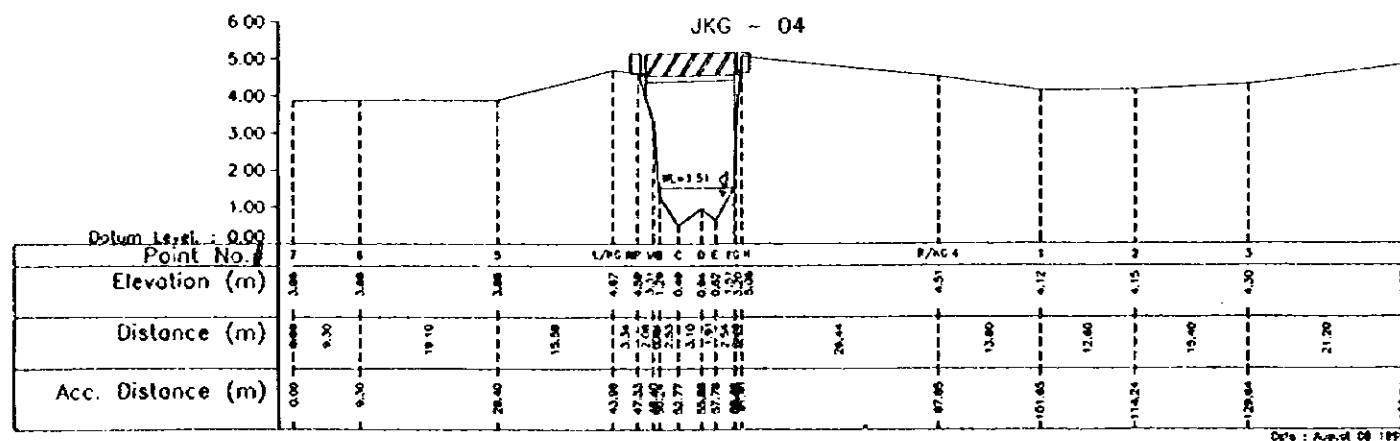
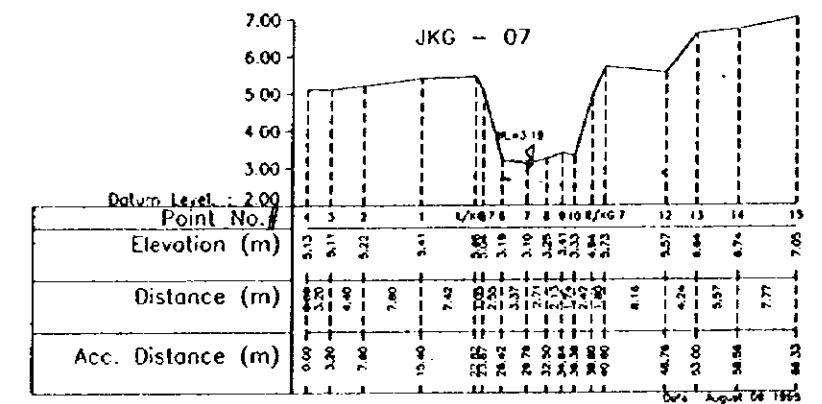
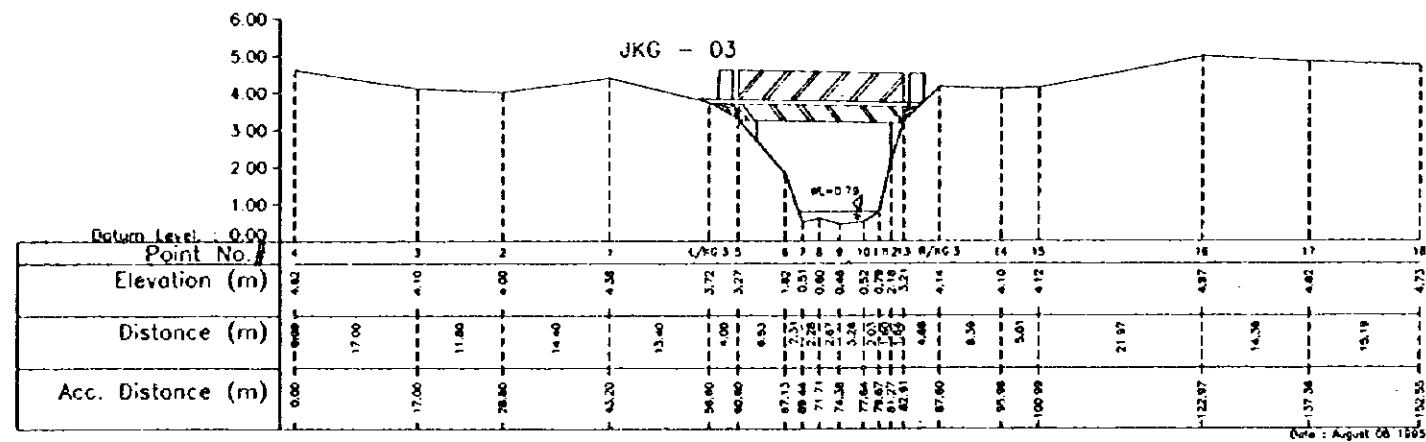
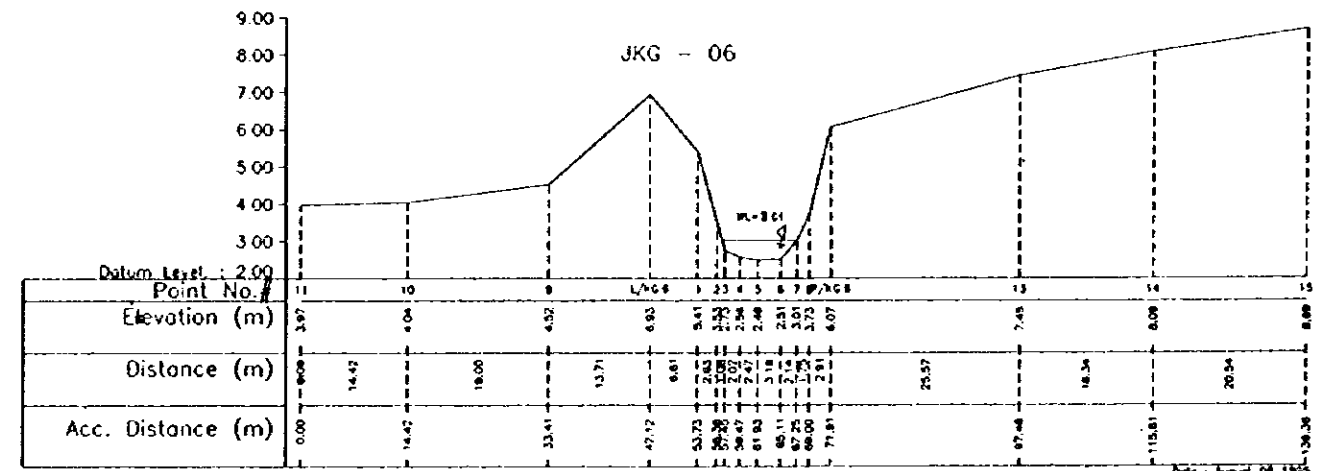
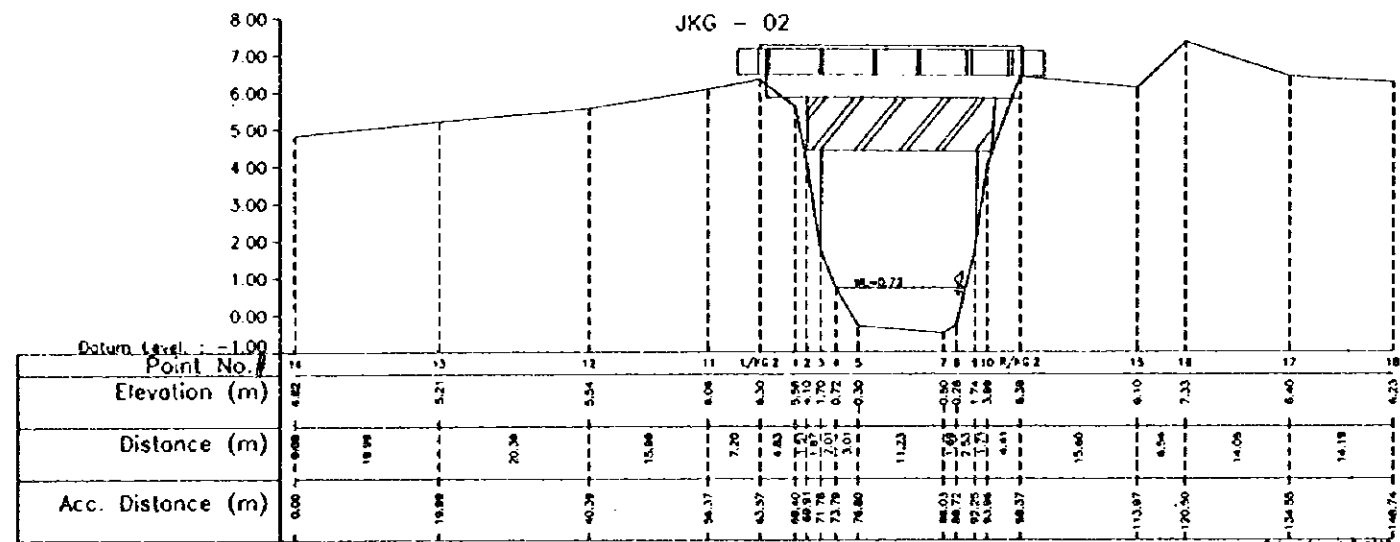
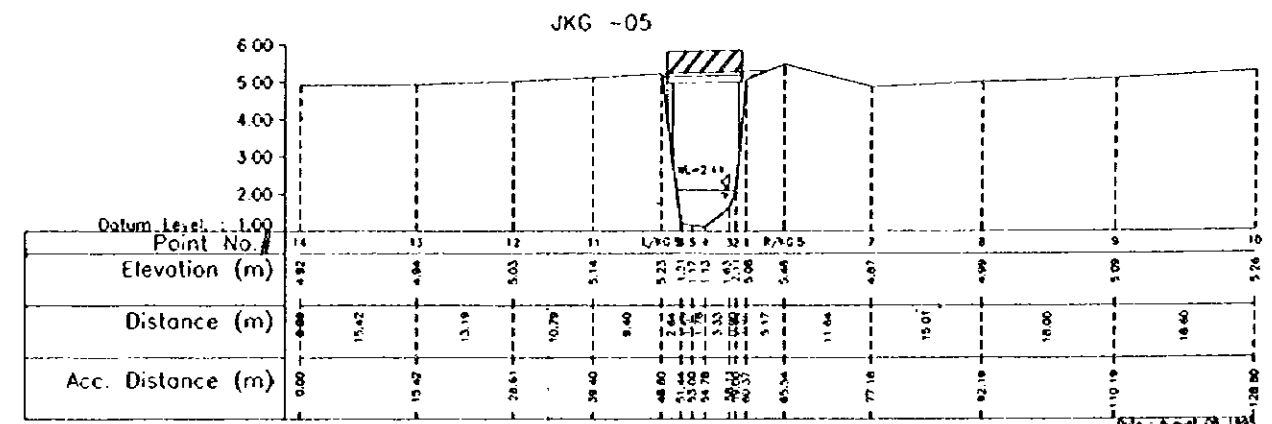
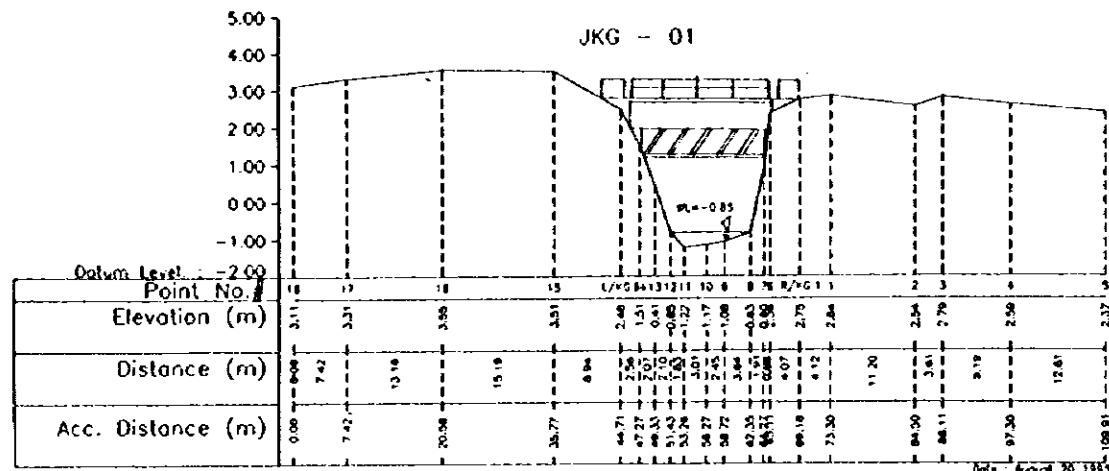
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

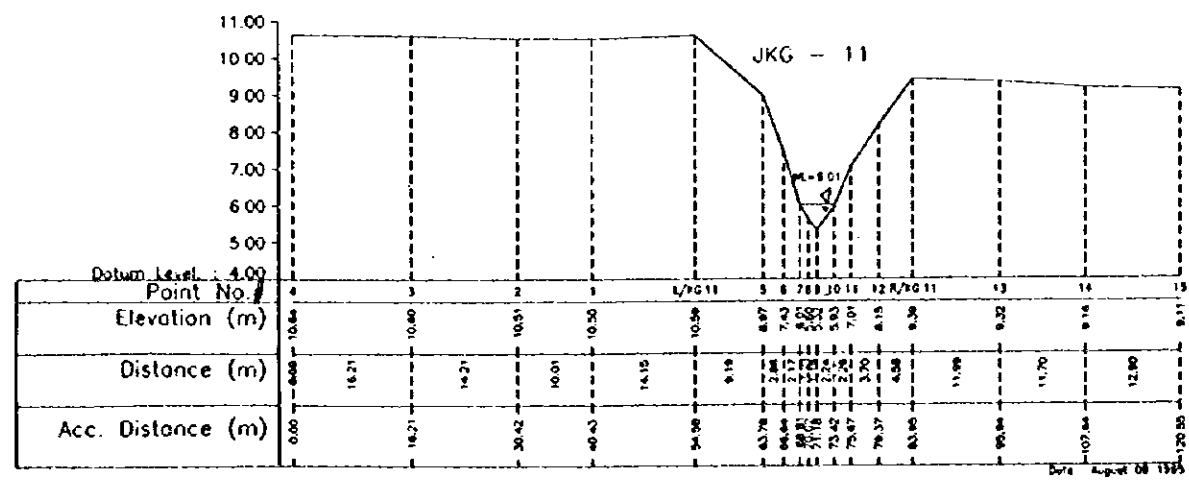
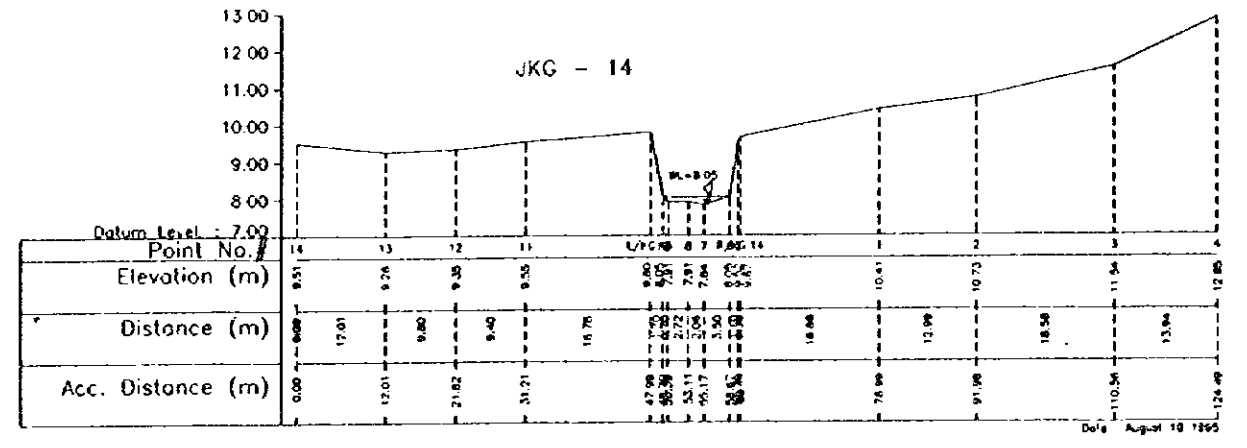
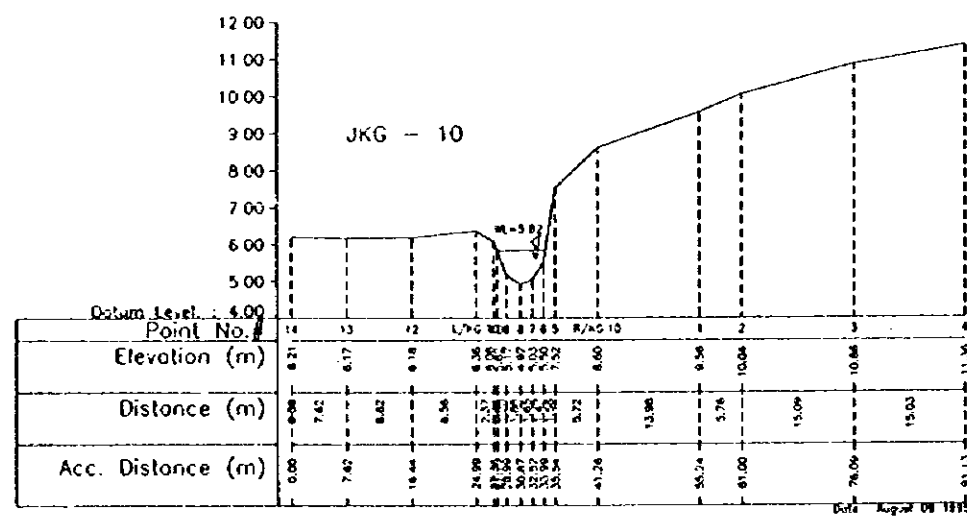
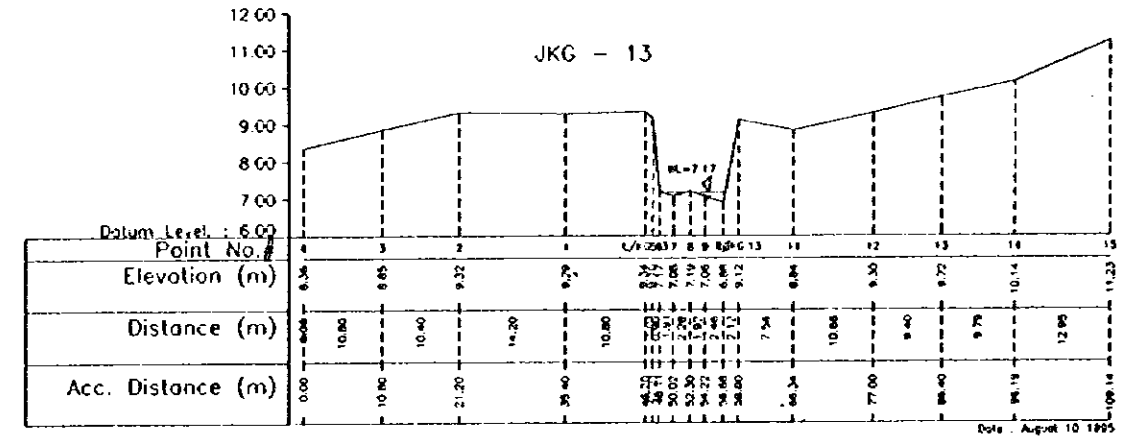
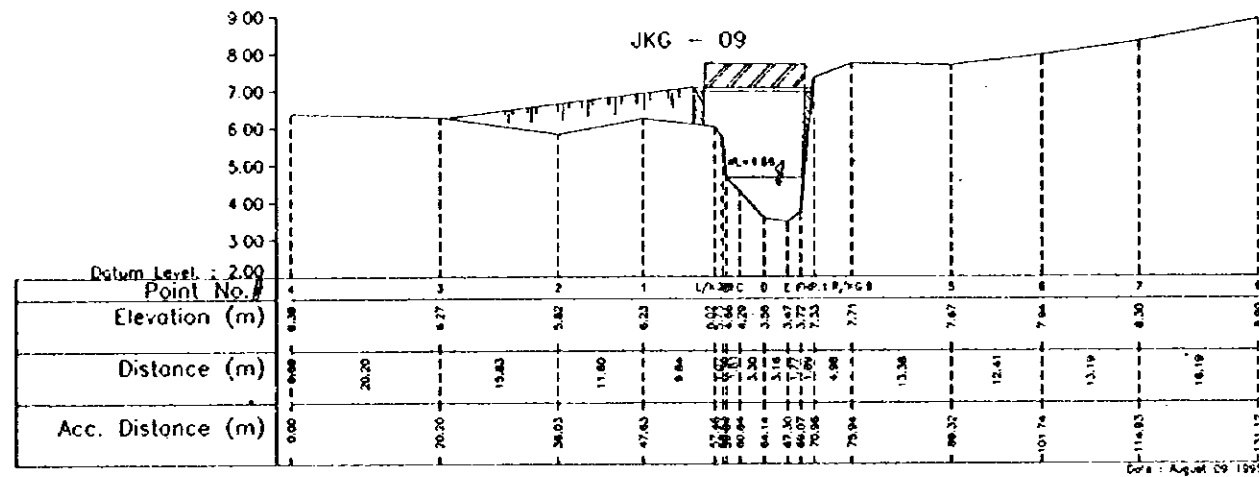
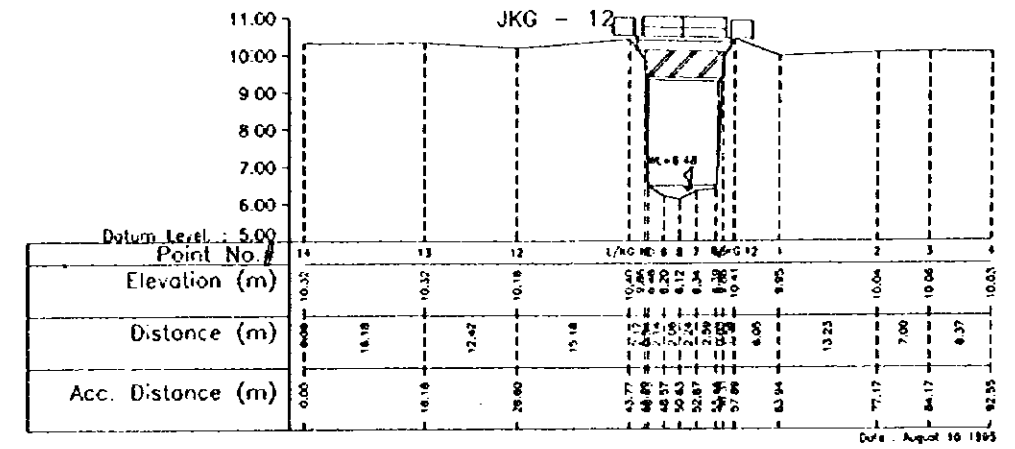
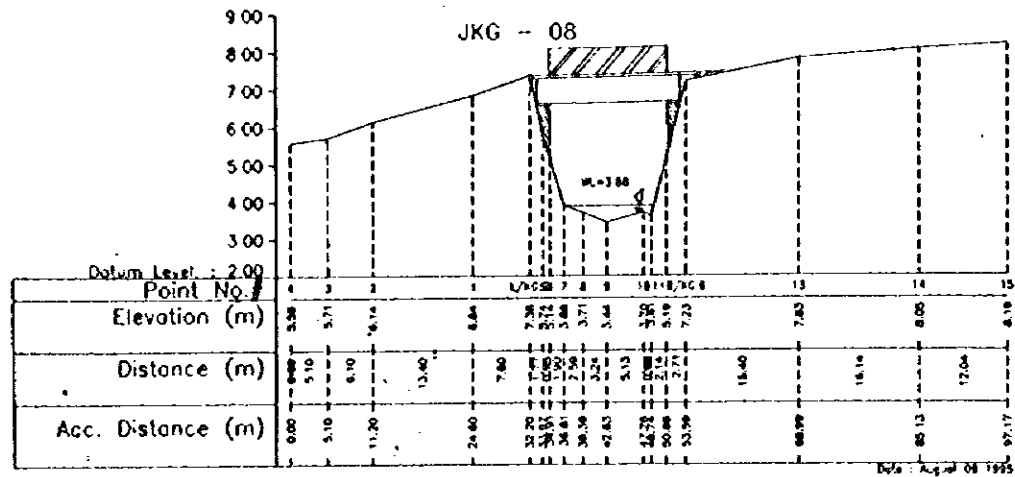
Name of River : **GROGOL RIVER** Drawing Title : **LONGITUDINAL PROFILE**

| | | | |
|------------|-------------|-----------------------|----------|
| Created by | Approved by | Scale | Sheet No |
| None | None | Horizontal 1 : 100000 | .1 of 1 |
| Signature | Signature | Vertical 1 : 100 | |
| Date | Date | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



| | | |
|---|---|--|
| <p>Reference Point: The Elevation is referred to TTG 177 = 40.134 meters The correlation between other system are: TTG 177 ± 0 = 100P - 0.975 meters = PP + ... meter</p> | | <p>(20 METERS) Scale: 1:500</p> |
| <p>MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</p> | | |
| <p>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</p> | | |
| <p>Name of River : GROGOL RIVER</p> | | <p>Drawing Title : CROSS SECTION</p> |
| <p>Checked by: </p> | <p>Approved by: </p> | <p>Scale: Horizontal 1:500 Vertical 1:100</p> |
| <p>Sheet No: 1 of 6</p> | <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> | |
| <p>WIRATMAN & Associates JAKARTA - INDONESIA</p> | | |



Reference Point :
 The Elevation is referred to TIC 127 = 40.156 meters
 The correlation between other system are :
 TIC 127 ± 0 = NAD - 0.975 meters = PP 4

(IN METERS)
 Scale: 1:500

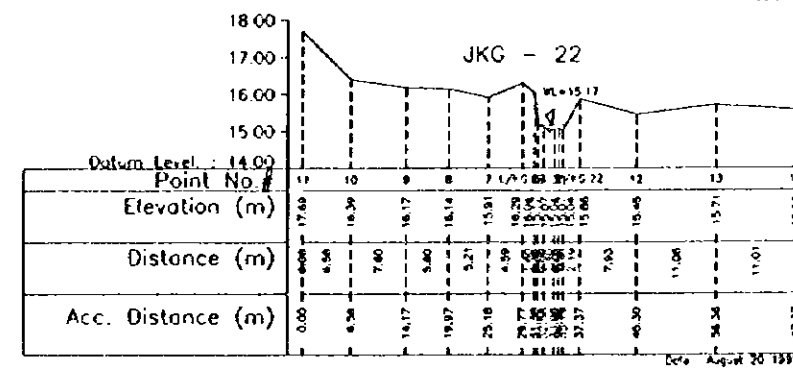
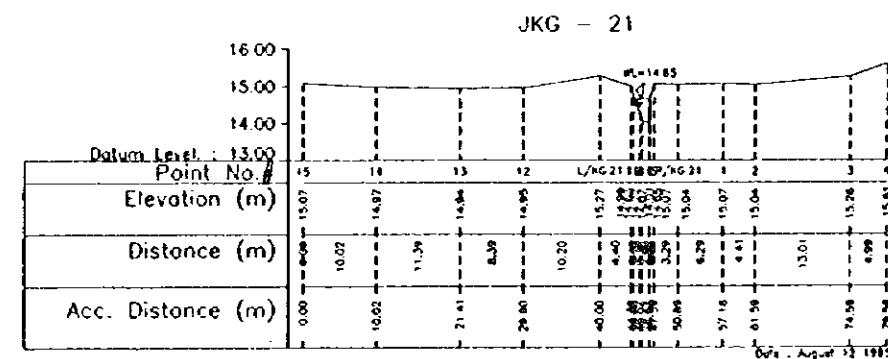
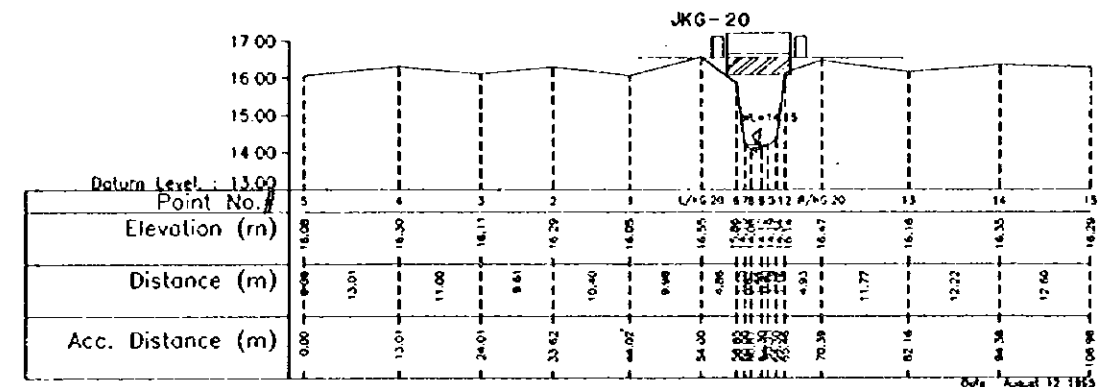
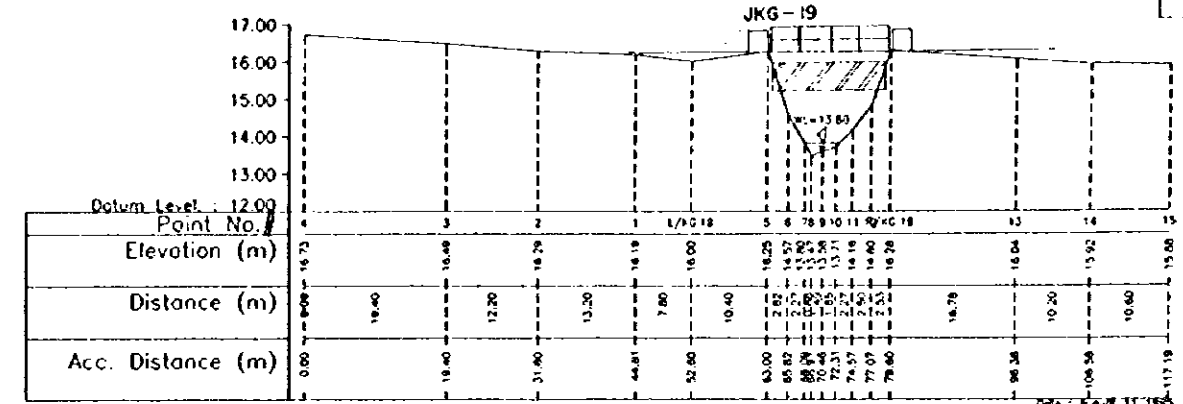
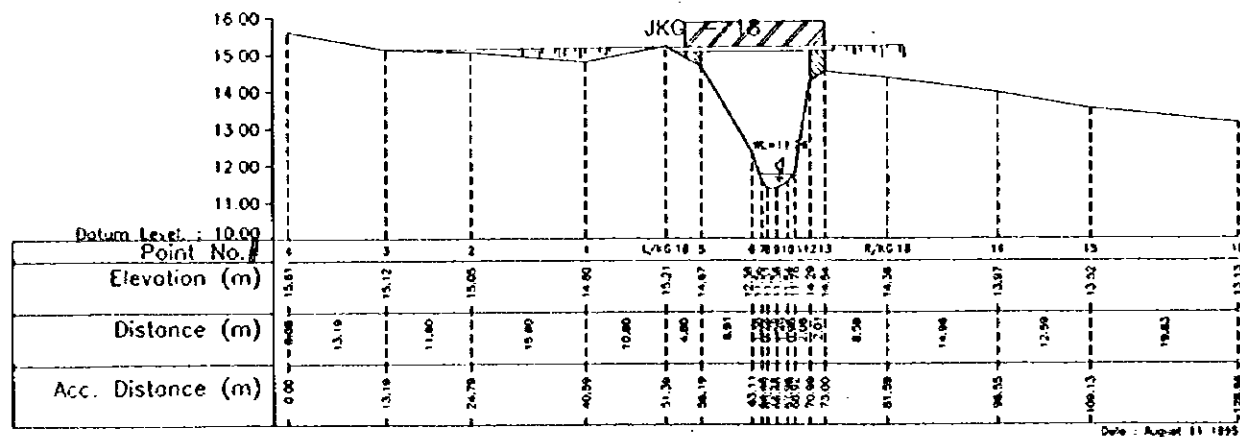
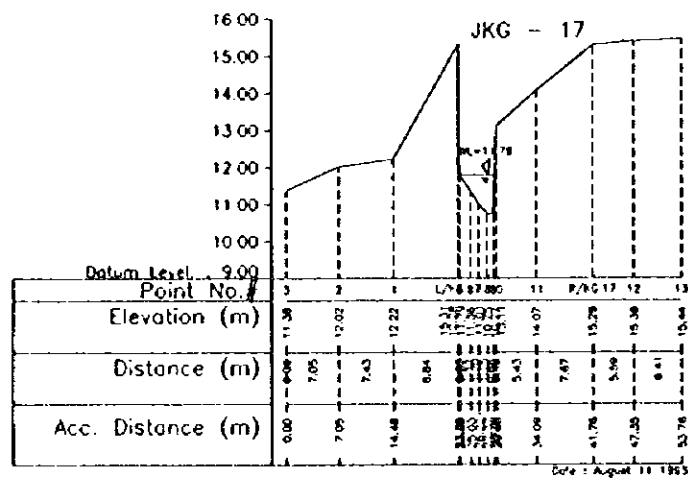
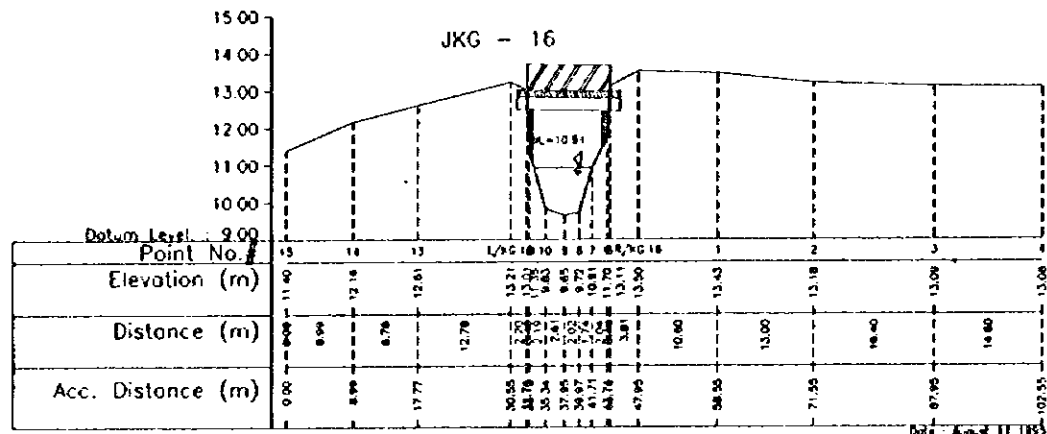
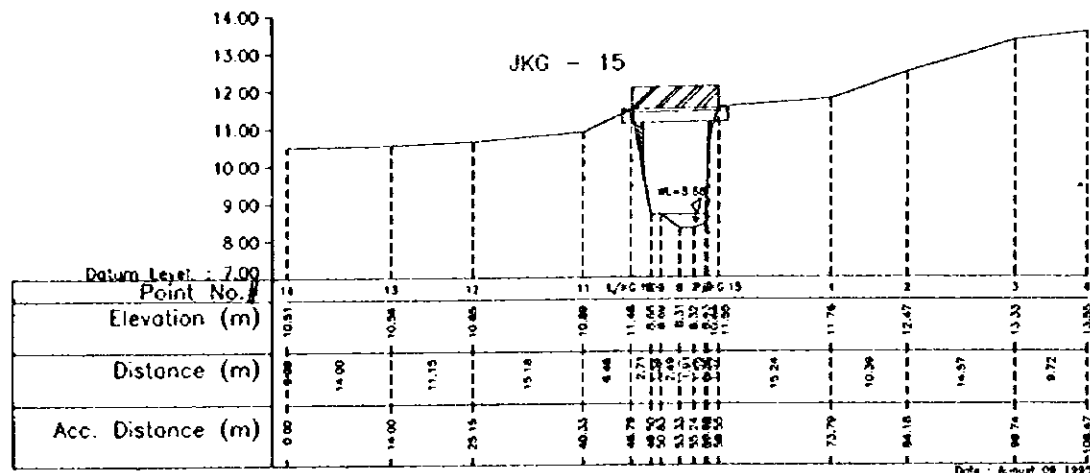
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **GROGOL RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|---------------------------|---------------------------|--------------------|-----------|
| Checked by | Approved by | Scale | Sheet No. |
| Name : <i>[Signature]</i> | Name : <i>[Signature]</i> | Horizontal 1 : 500 | 2 of 6 |
| Date : 11.11.95 | Date : 12.11.95 | Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & Associates** JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to ITC 127 = 40.136 meters
The correlation between other system or
ITC 127 & 0 = W.P. = 0.875 meters + PP + meter

(IN METERS)
1:500

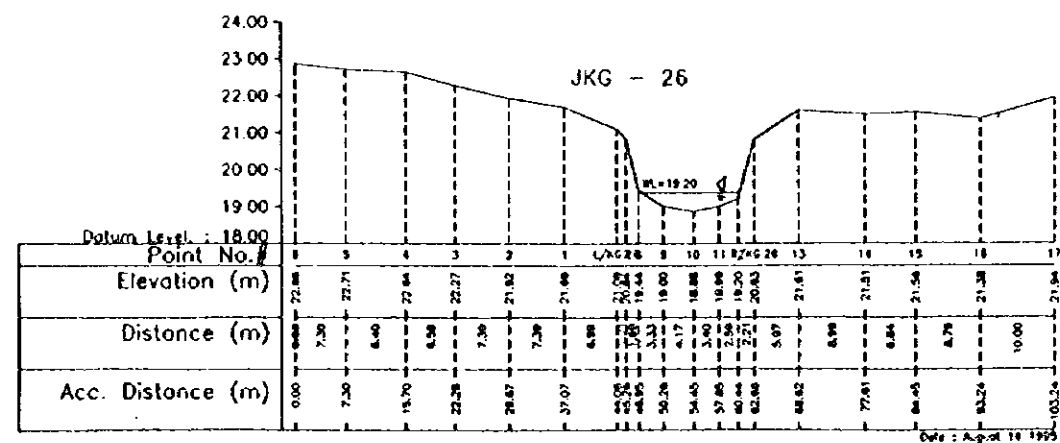
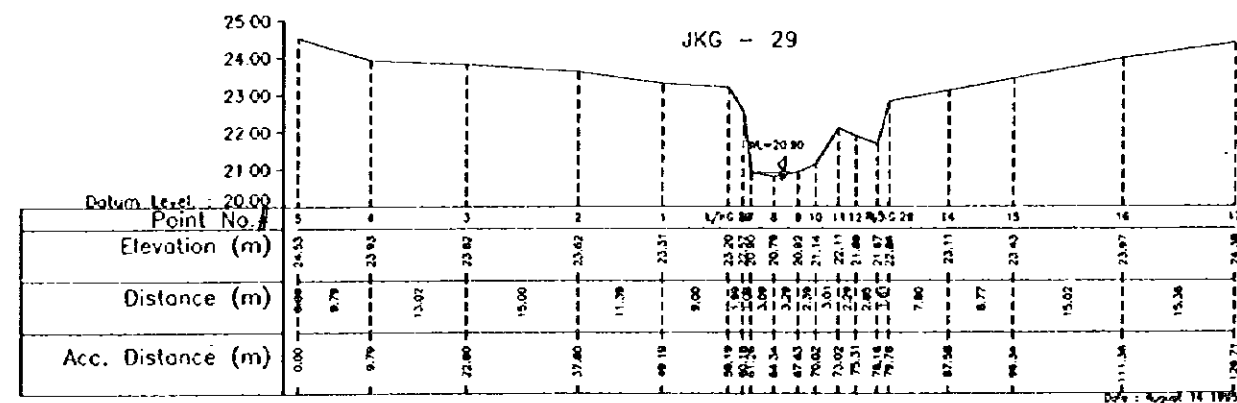
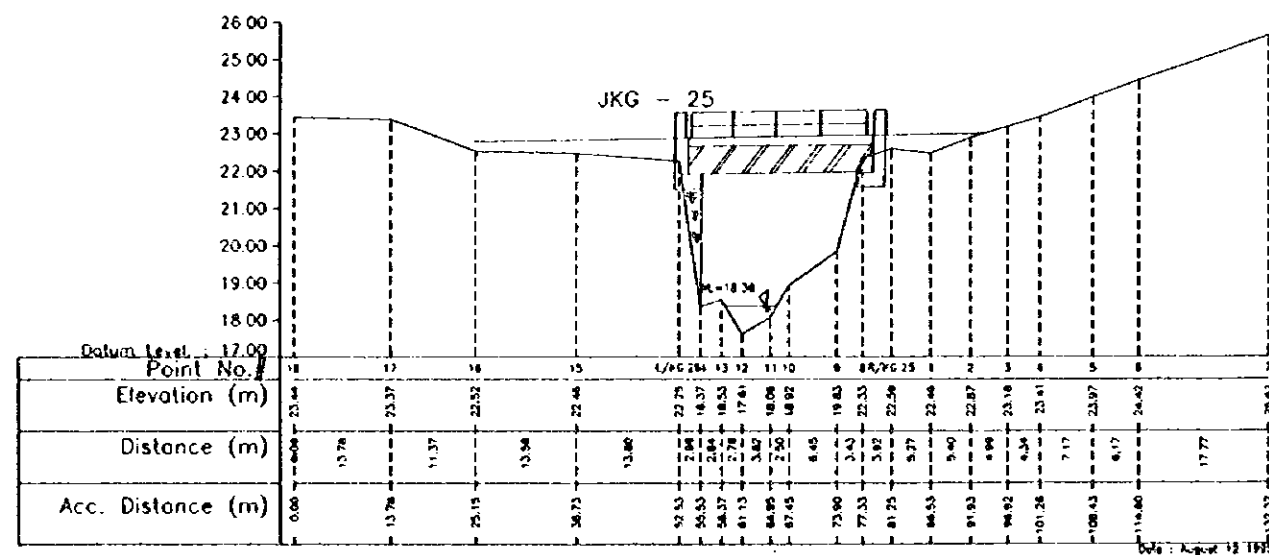
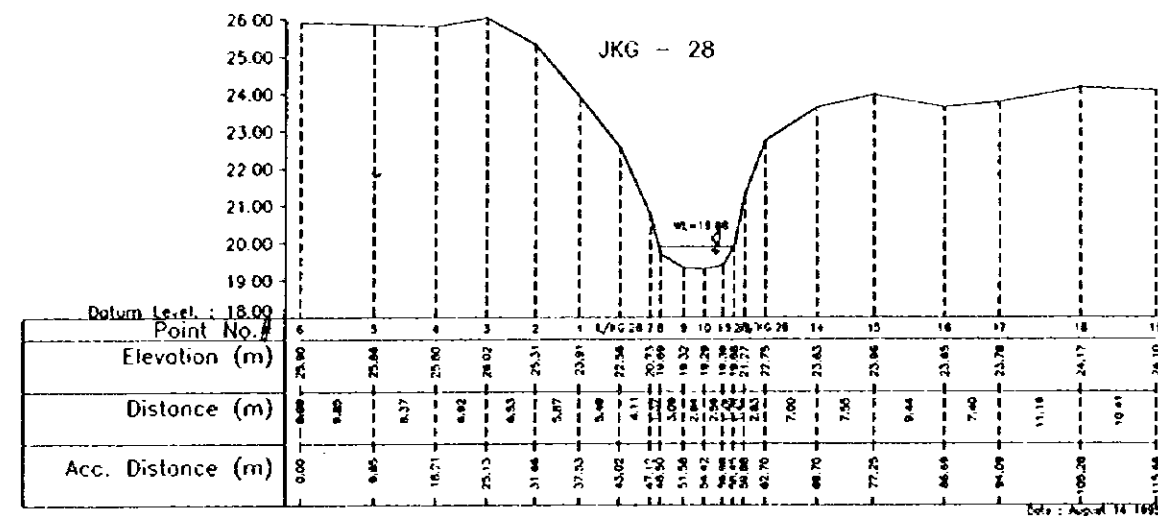
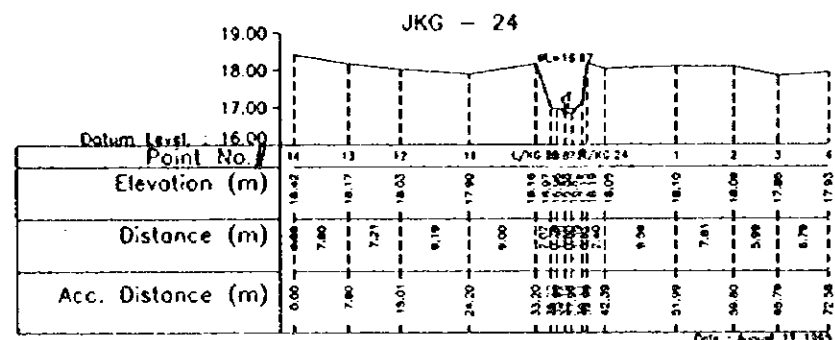
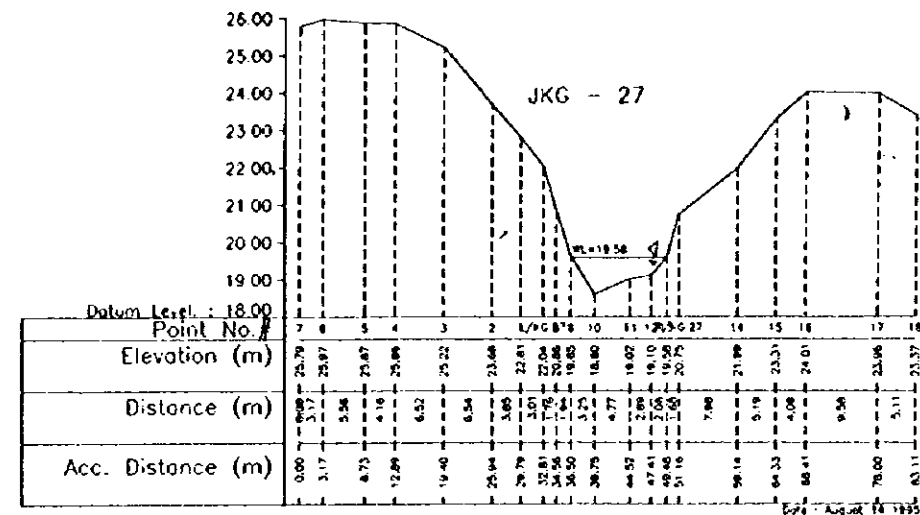
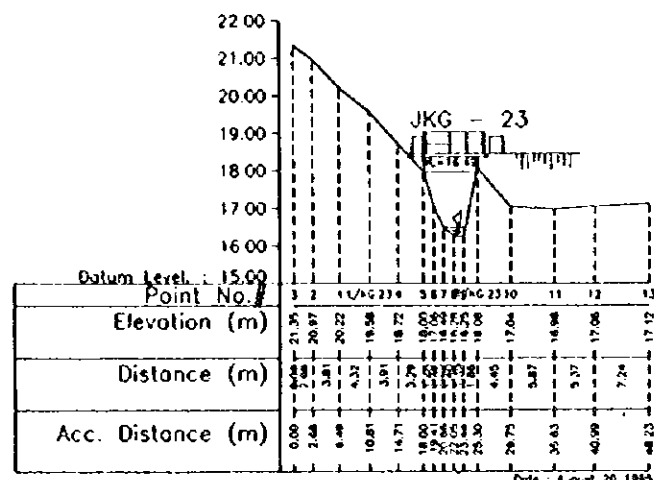
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : GROGOL RIVER
Drawing Title : CROSS SECTION

| | | | |
|---------------------------|----------------------------------|---|---------------------|
| Checked by B. B. B. B. | Approved by K. T. O. R. A. E. | Scale Horizontal 1 : 500 Vertical 1 : 100 | Sheet No. 3 of 6 |
|---------------------------|----------------------------------|---|---------------------|

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WIRATMAN & Associates
JAKARTA - INDONESIA



Reference Point :
The Elevation is referred to TTG 177 = 40.134 meters
The correlation between other system are
TTG 177 ± 0 = ANP - 0.975 meters = RP + ... meter

(1 : 500)
Horizontal 1 : 500
Vertical 1 : 100

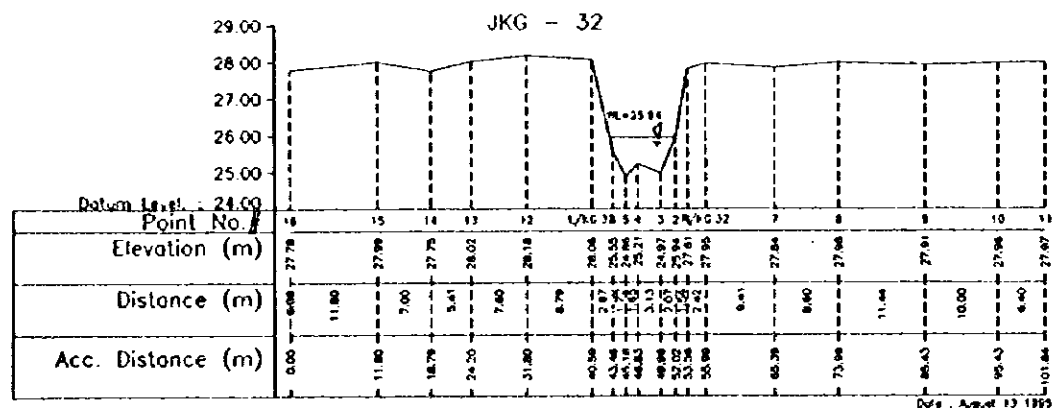
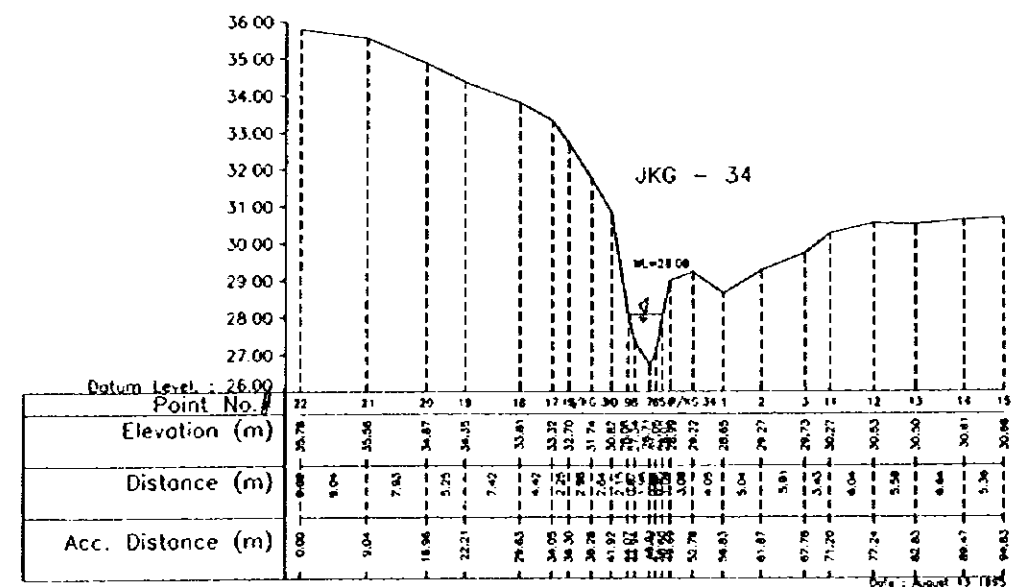
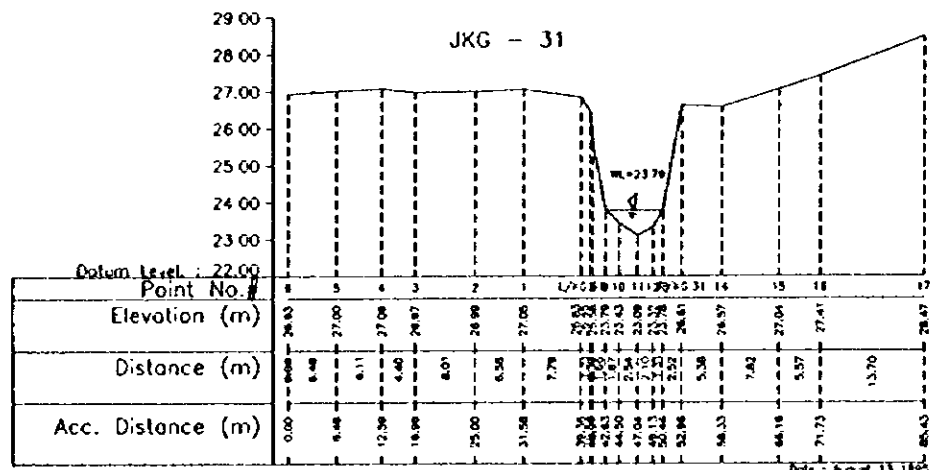
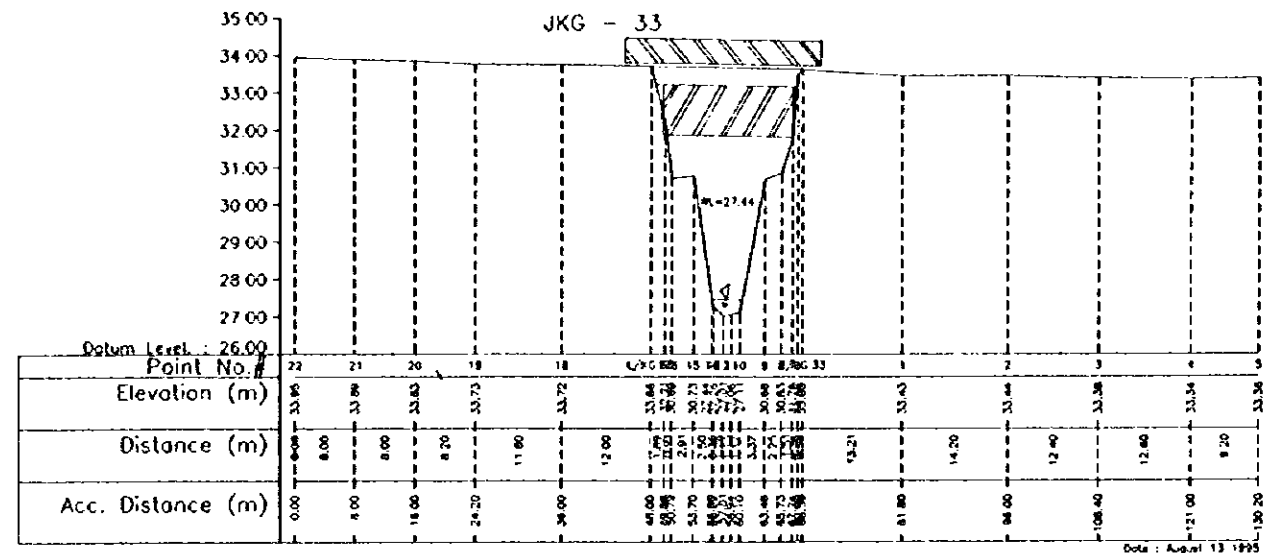
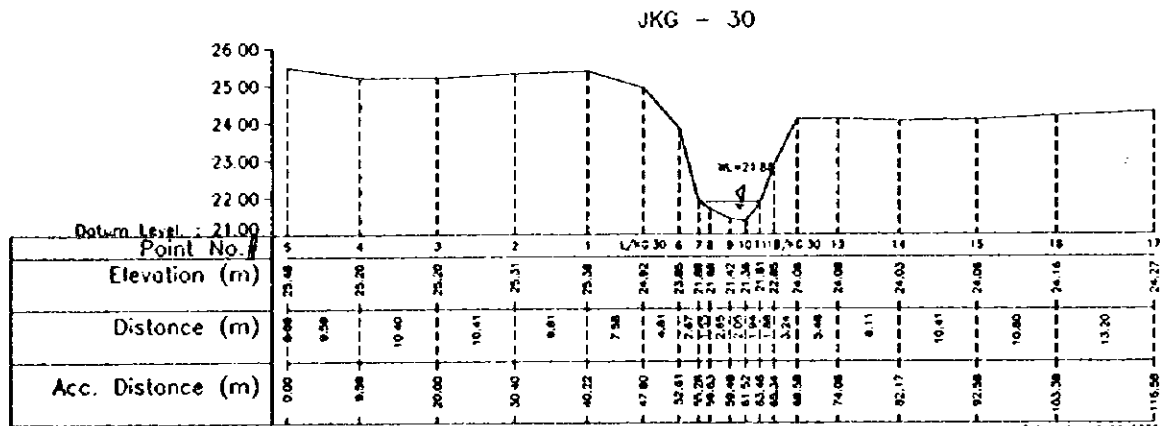
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **GROGOL RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------------------------------|---------------------------------|-----------------------------|---------------------------|
| Checked By : BRUNO SOEDARTO | Approved By : K. TOPIKUE | Scale : 1 : 500 | Sheet No : 4 of 6 |
| Signature : <i>[Signature]</i> | Signature : <i>[Signature]</i> | Horizontal : 1 : 500 | Vertical : 1 : 100 |
| Date : 11.11.95 | Date : 12.07.95 | | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRAWAN & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are:
 TIG 177 ± 0 = WMP - 0.973 meters = PP + meter

Scale: 1:500
 Horizontal: 1:500
 Vertical: 1:100

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISAJANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

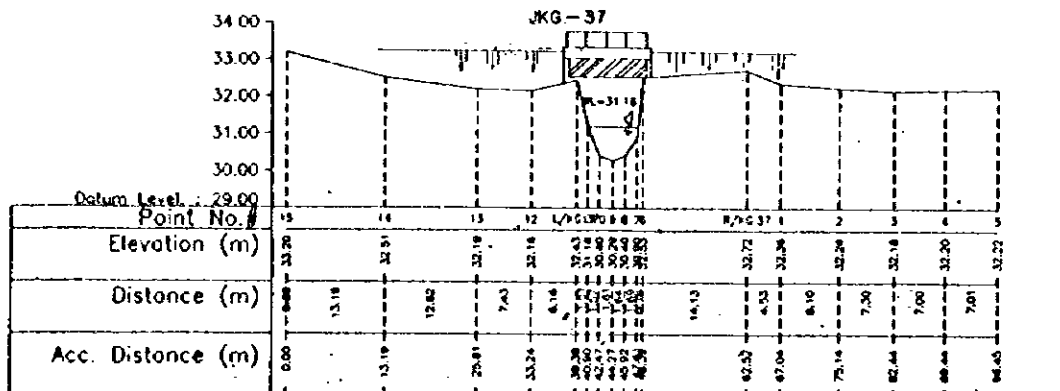
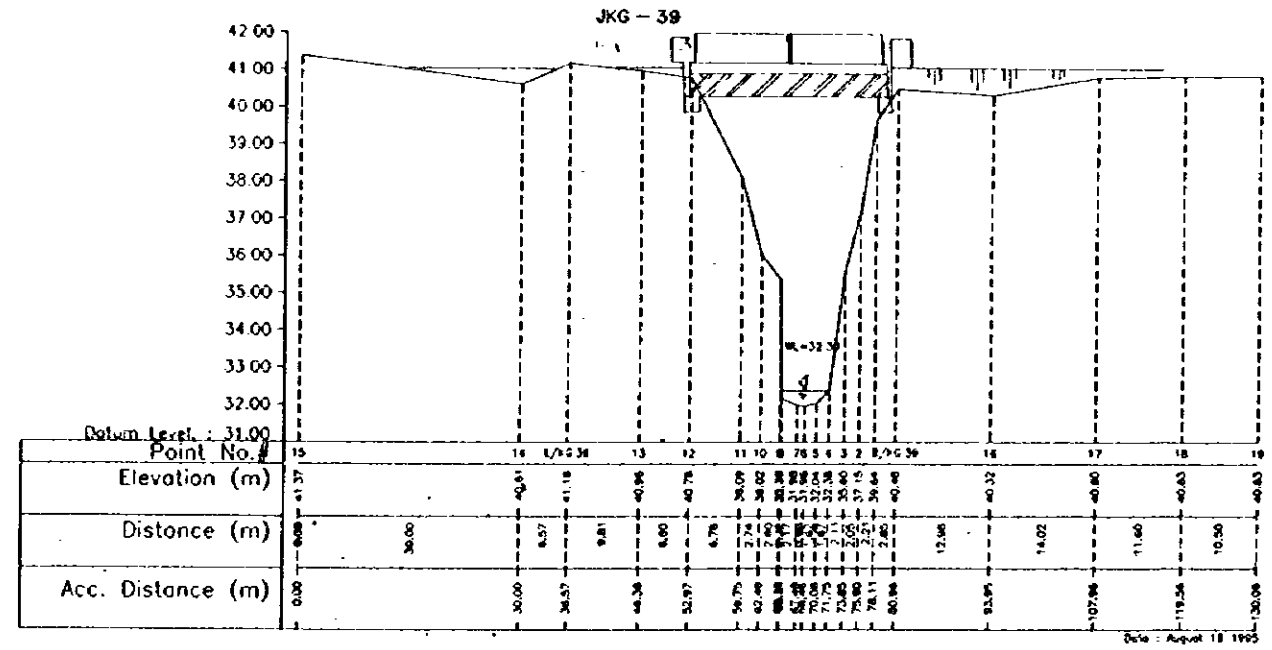
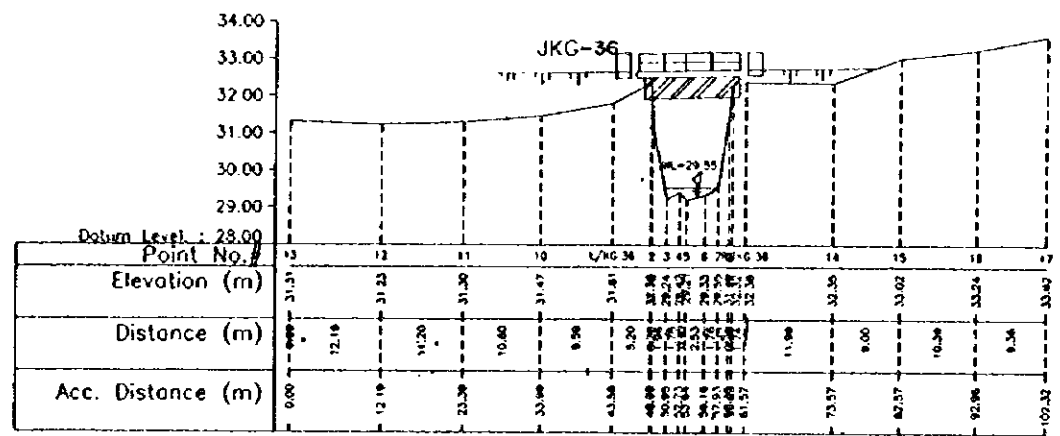
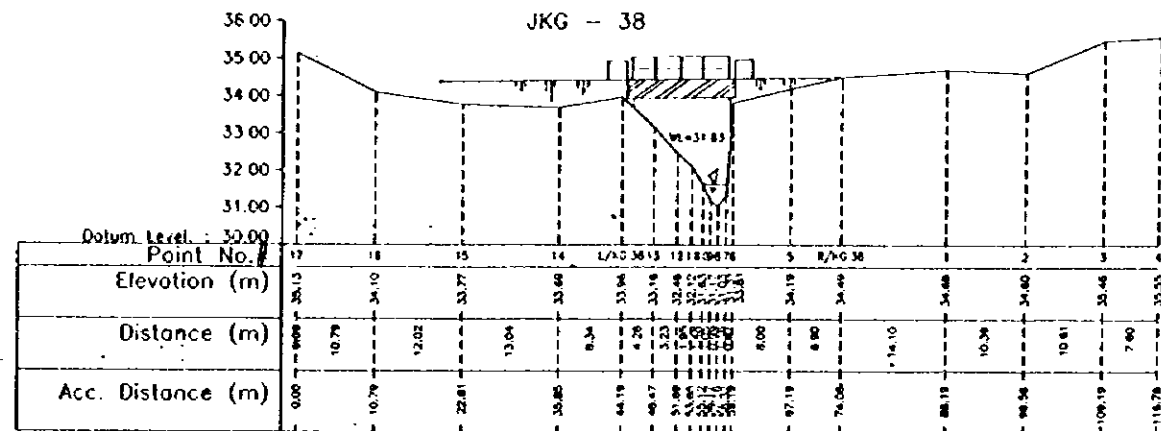
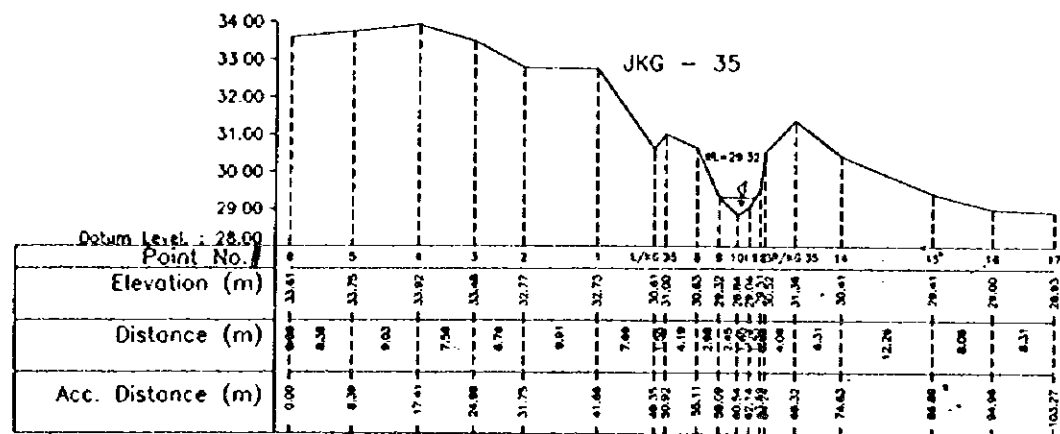
Name of River : **GROGOL RIVER**

Drawing Title : **CROSS SECTION**

| | | | |
|--|--|--------------------------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| Name : <i>BIMBO</i> Signature : <i>[Signature]</i> Date : 11.08.93 | Name : <i>[Signature]</i> Signature : <i>[Signature]</i> Date : 12.11.93 | Horizontal: 1:500 Vertical: 1:100 | 5 of 6 |

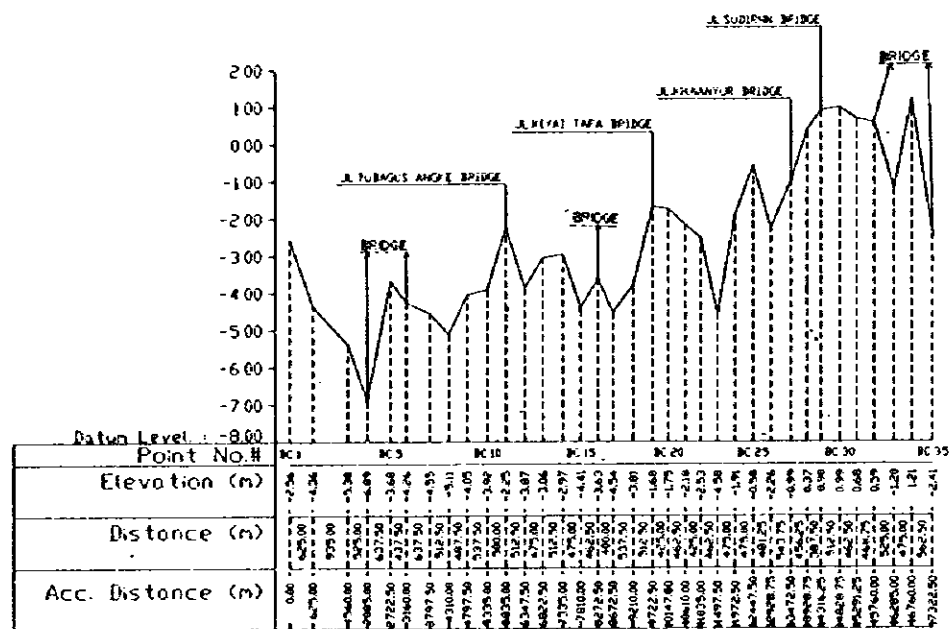
JICA JAPAN INTERNATIONAL COOPERATION AGENCY

WATANABE & Associates
 JAKARTA - INDONESIA

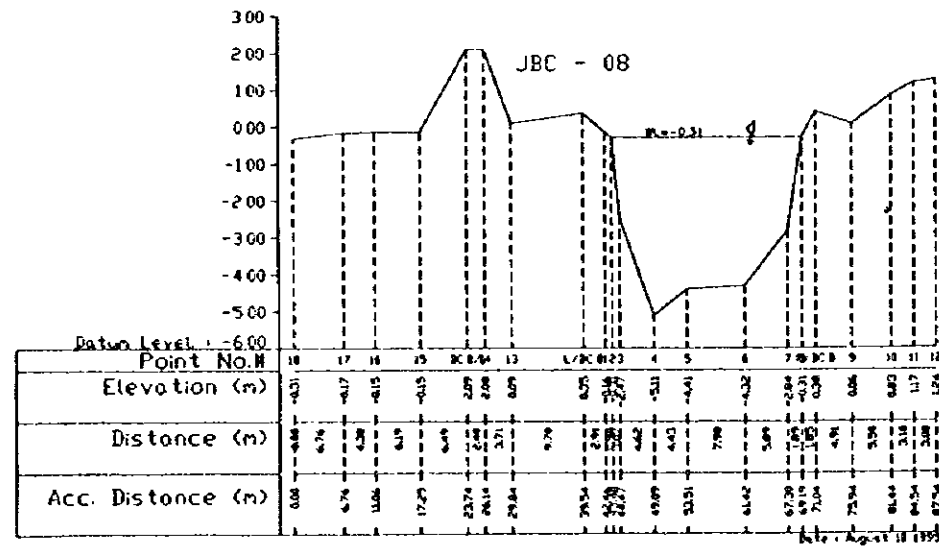
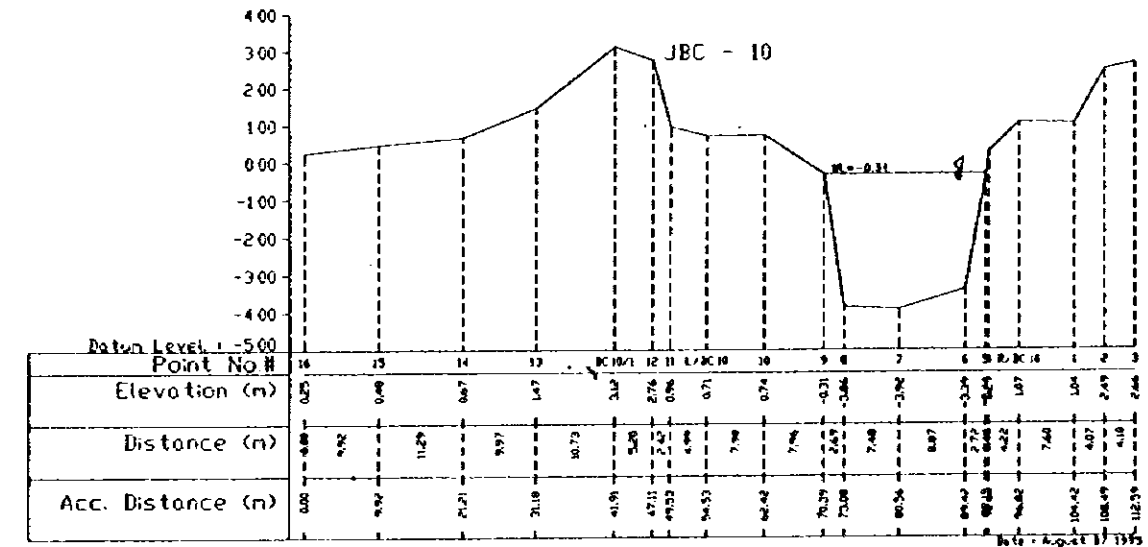
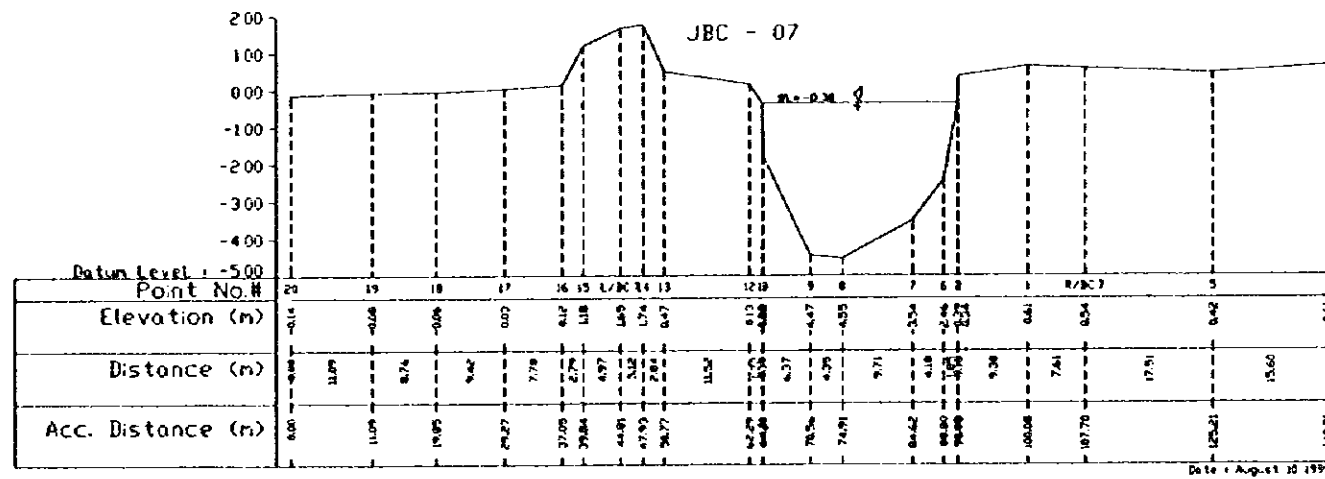
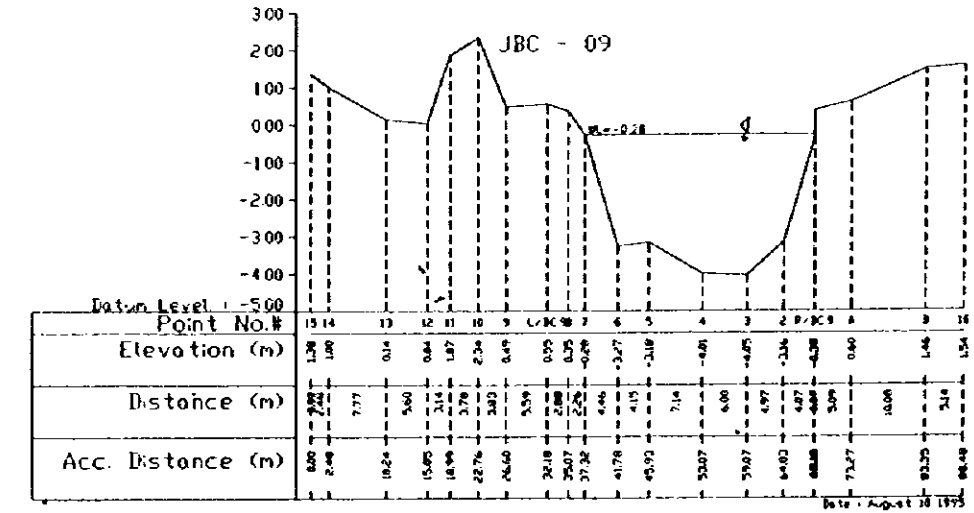
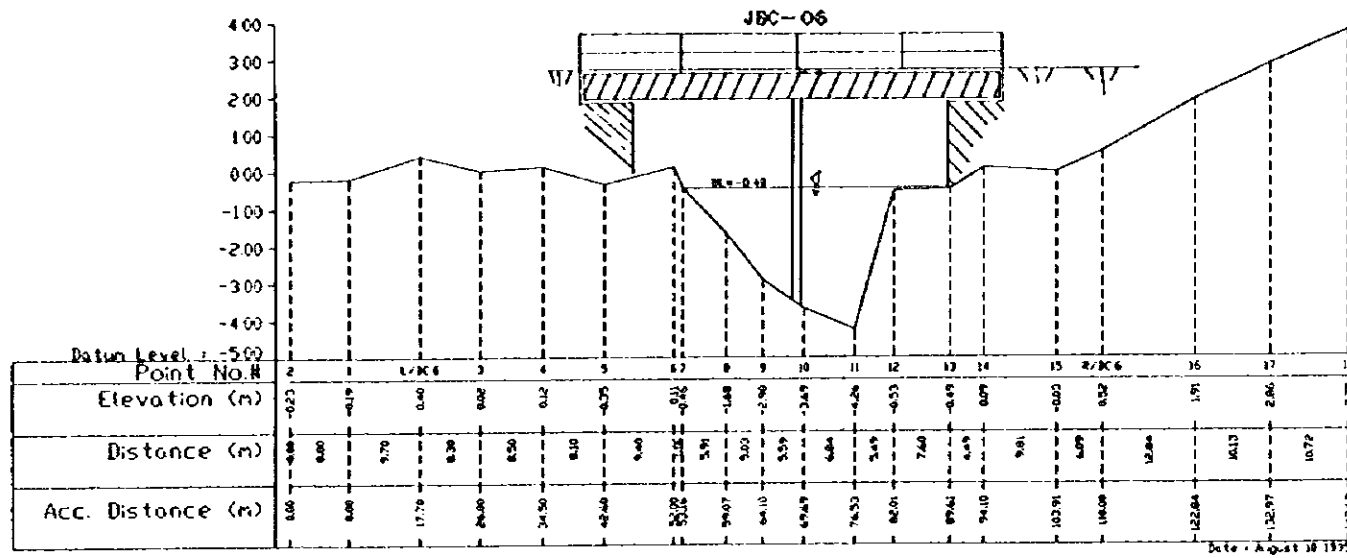


| | | | |
|--|---|---|----------------------|
| Reference Point : The Elevation is referred to ITG 177 = 40.156 meters The correlation between other system are : ITG 177 ± 0 = ANP - 0.975 meters = PP + . . . meter | | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : GROGOL RIVER | | Drawing Title : CROSS SECTION | |
| Checked by : Name : BIRNO Signature : [Signature] Date : 11.11.95 | Approved by : Name : SUCAPRO Signature : [Signature] Date : 12.11.95 | Scale : Horizontal : 1 : 500 Vertical : 1 : 100 | Sheet No : 6 of 6 |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WIRATMAN & Associates JAKARTA - INDONESIA | |

7 River Survey of Western Banjir Canal System
(Western Banjir Canal, Krukut and Ciliwung Rivers)



| | | | |
|--|--|---|--|
| Reference Point : The Elevation is referred to TIG 177 (TIG 177 = 40 136 meters) The correlation between other system are TIG 177 ± 0.0 = IOWP - 0.875 meters = PP + meters | | (IN METERS) Scale = 1:100000 | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : BANJIR CANAL | | Drawing Title : LONGITUDINAL PROFILE | |
| Checked By : B. WARDI S. SAPTA | | Approved By : T. BUKU K. FORNIE | |
| Name : Signature : Date : 25.11.2012 | | Scale : Horizontal 1 : 100000 Vertical 1 : 100 | |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WIRATMAN & Associates JAKARTA - INDONESIA | |



Reference Point:
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP = 0.975 meters = PP ± ... meter

(IN METERS)
 1 : 500

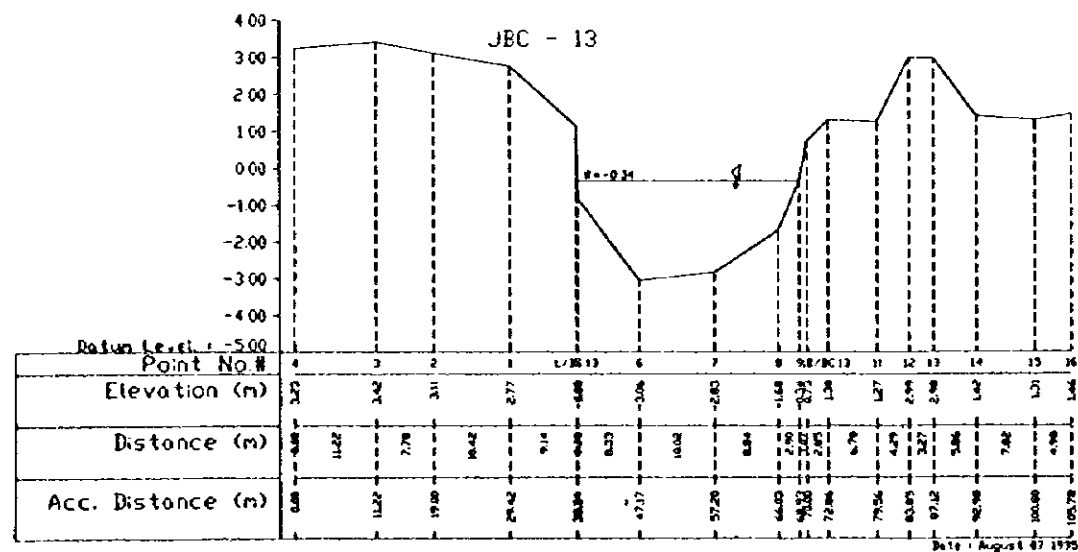
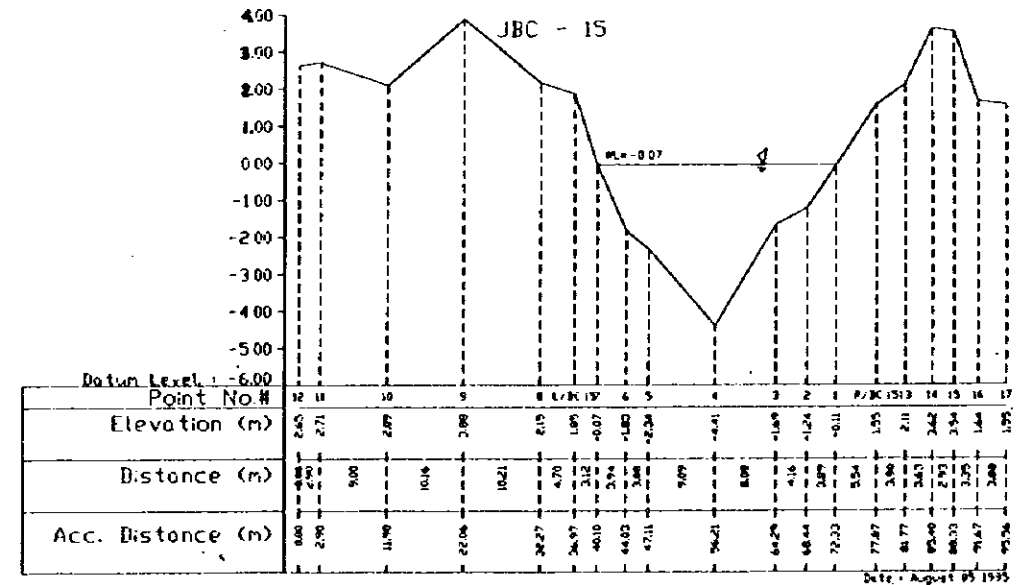
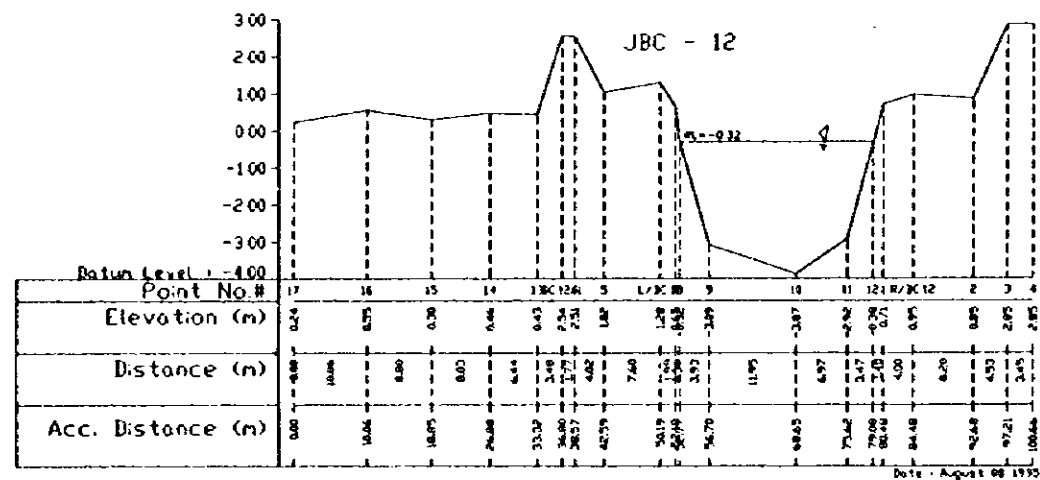
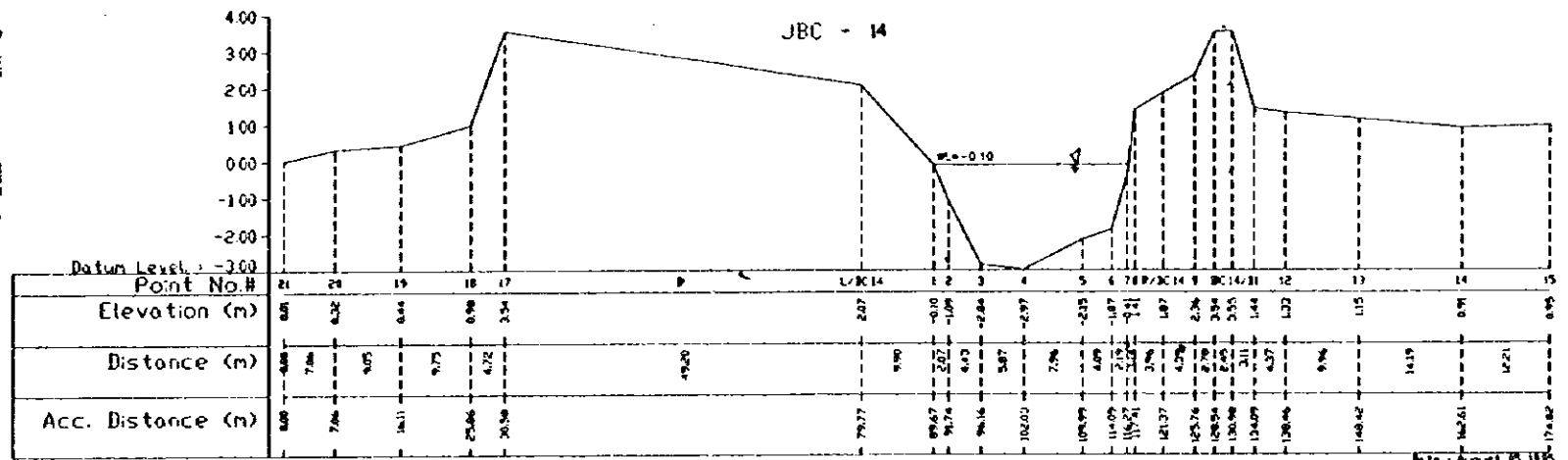
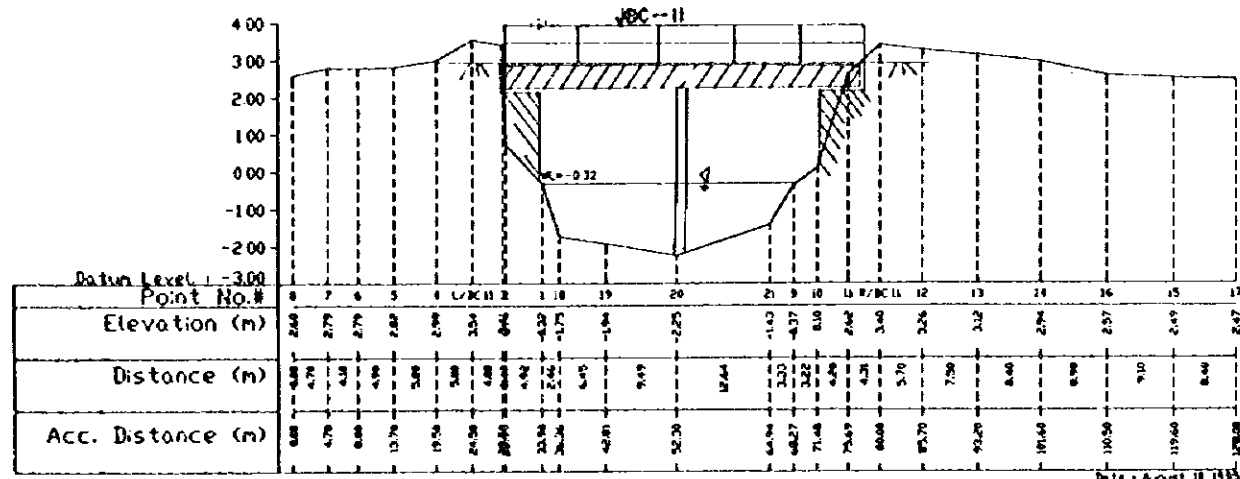
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN UJOTABEK

Name of River : **BASIR CANAL** Drawing Title : **CROSS SECTION**

| | | | |
|--------------------------|--------------------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| Name: <i>[Signature]</i> | Name: <i>[Signature]</i> | Horizontal 1 : 500 | 2 of 7 |
| Date: <i>[Date]</i> | Date: <i>[Date]</i> | Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIJATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 - The Elevation is referred to TIG 127 = 45 136 meters
 The correlation between other system are
 TIG 127 ± 0 = NCP = 0.915 meters = PP ± meter

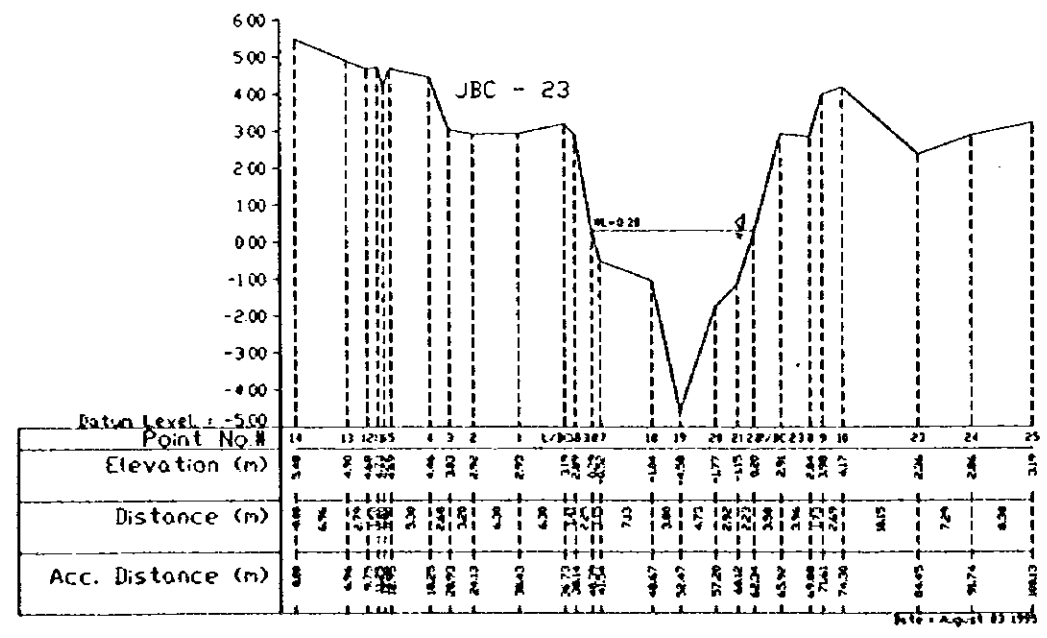
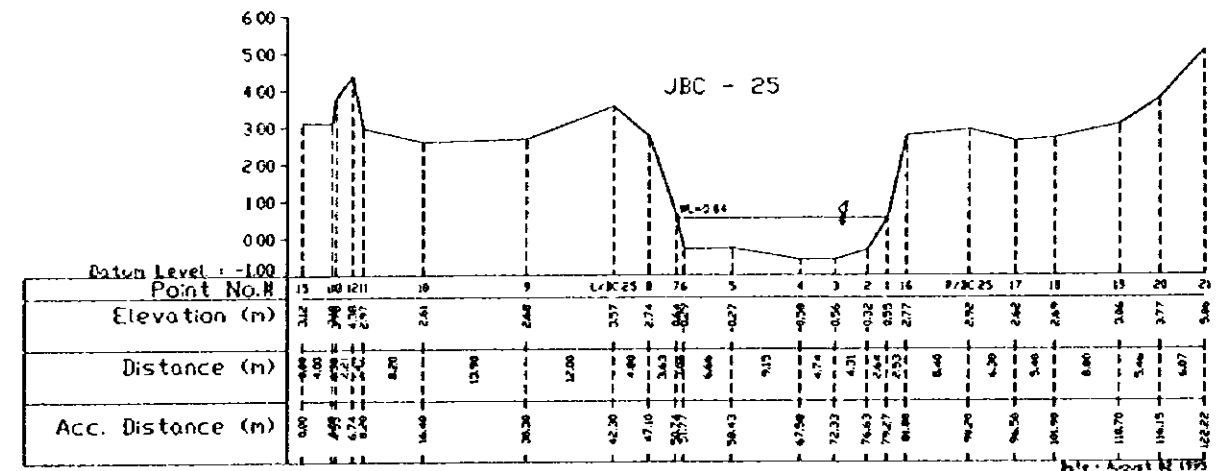
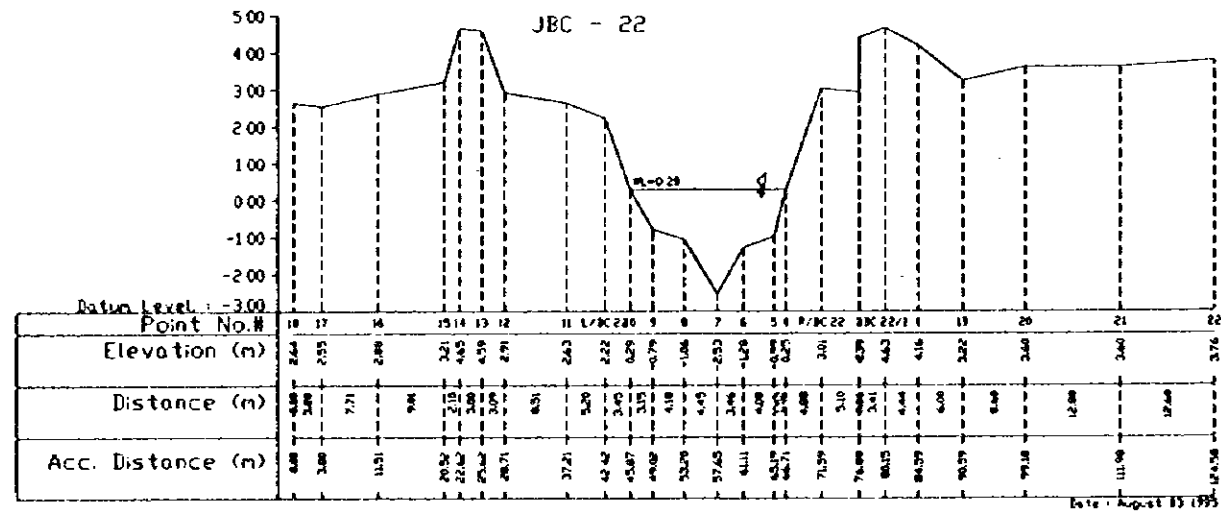
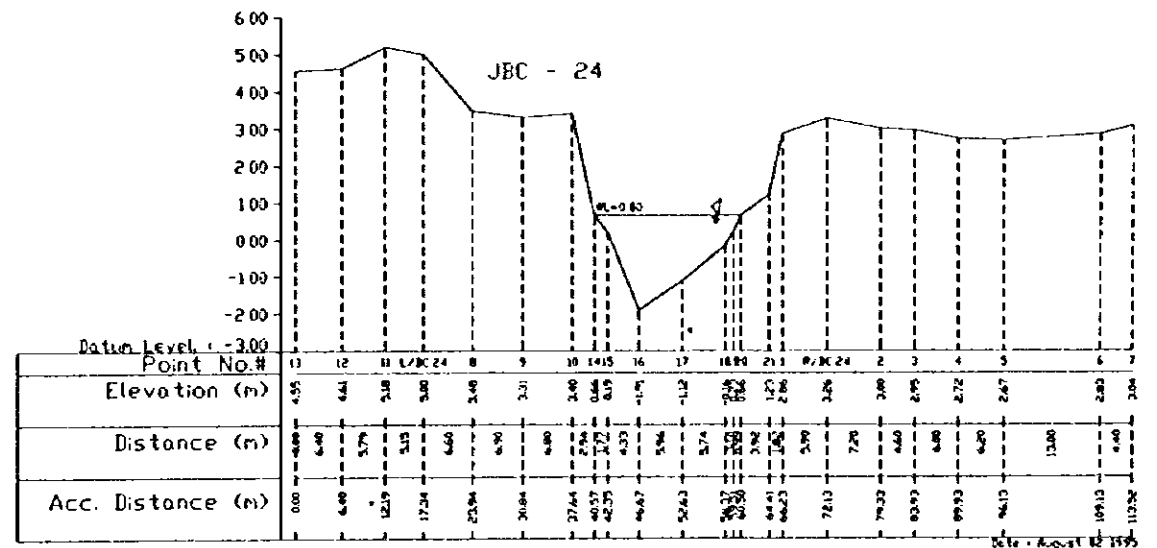
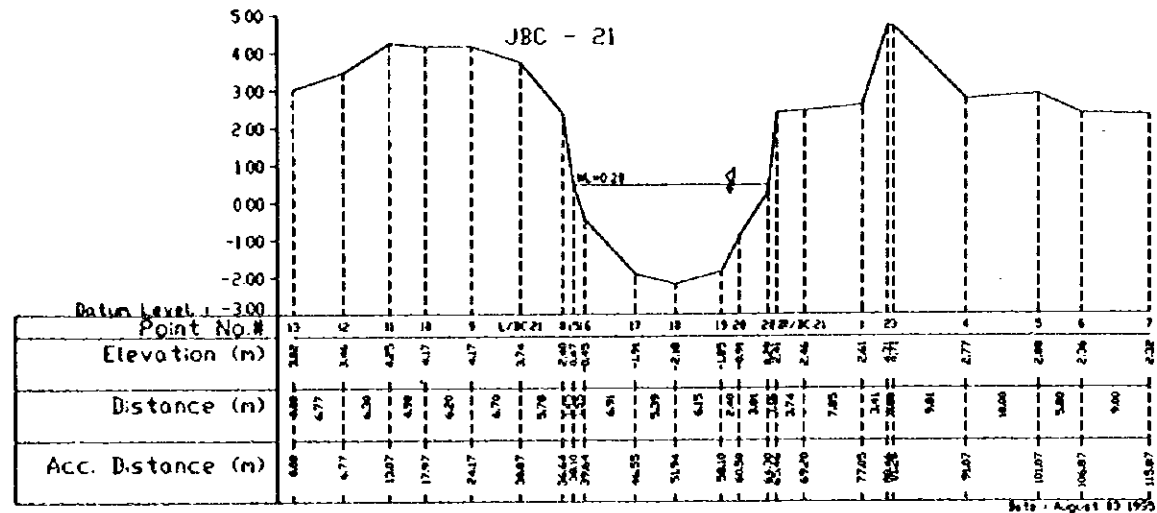
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **BANJAR CANAL** Drawing Title : **CROSS SECTION**

| | | | |
|------------------------|------------------------|----------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| Signature: [Signature] | Signature: [Signature] | Horizontal : 1 : 500 | 3 of 7 |
| Date: 10.11.95 | Date: 12.12.95 | Vertical : 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WINNAN & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to TTG 177 = 40.136 meters
 The correlation between other system are:
 TTG 177 ± 0 = NRP = 0.975 meters = PP ± meter

(IN METERS)
 1:100
 Rp = 1:500

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

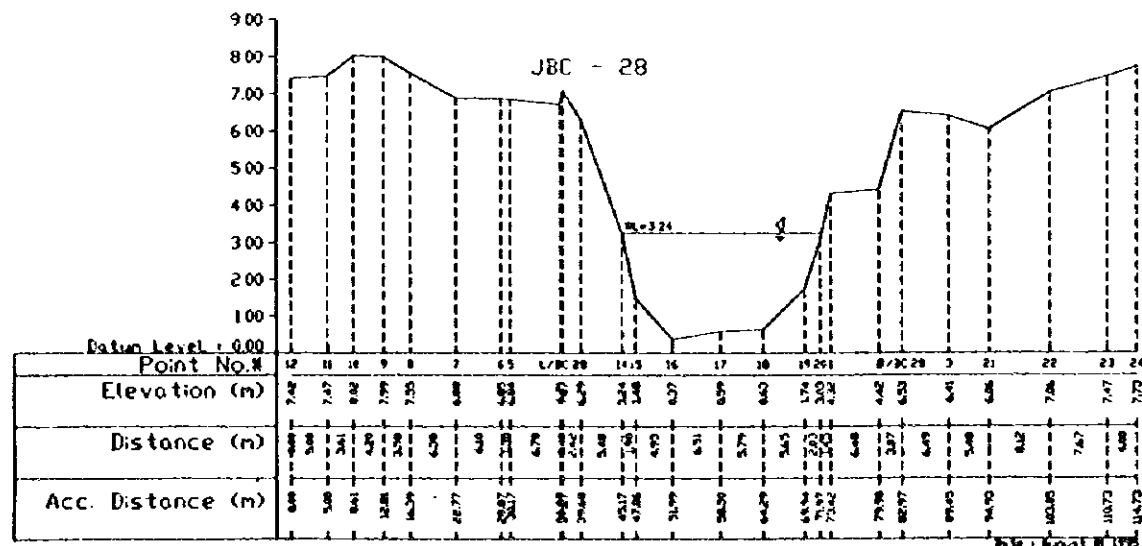
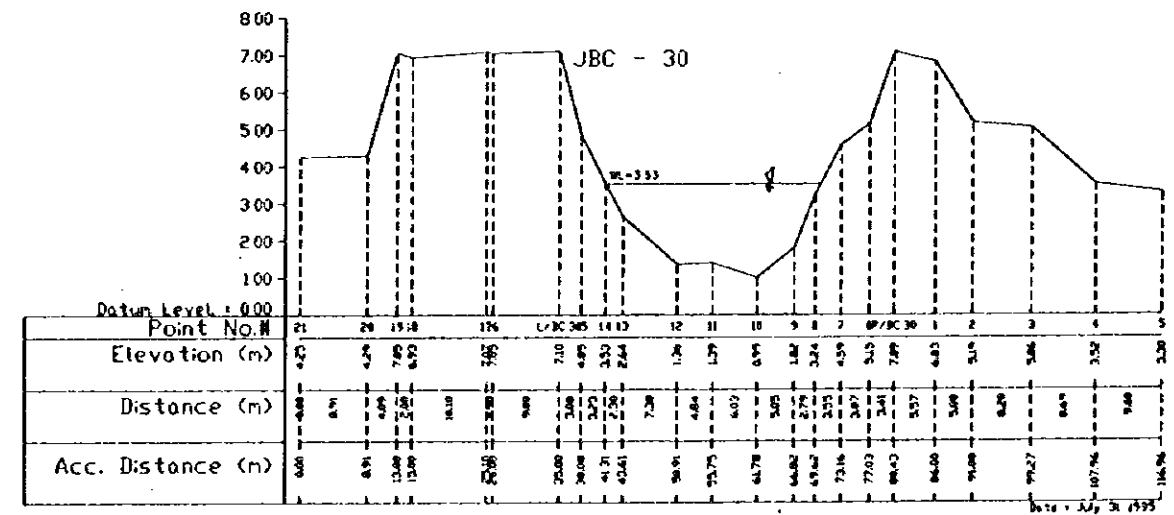
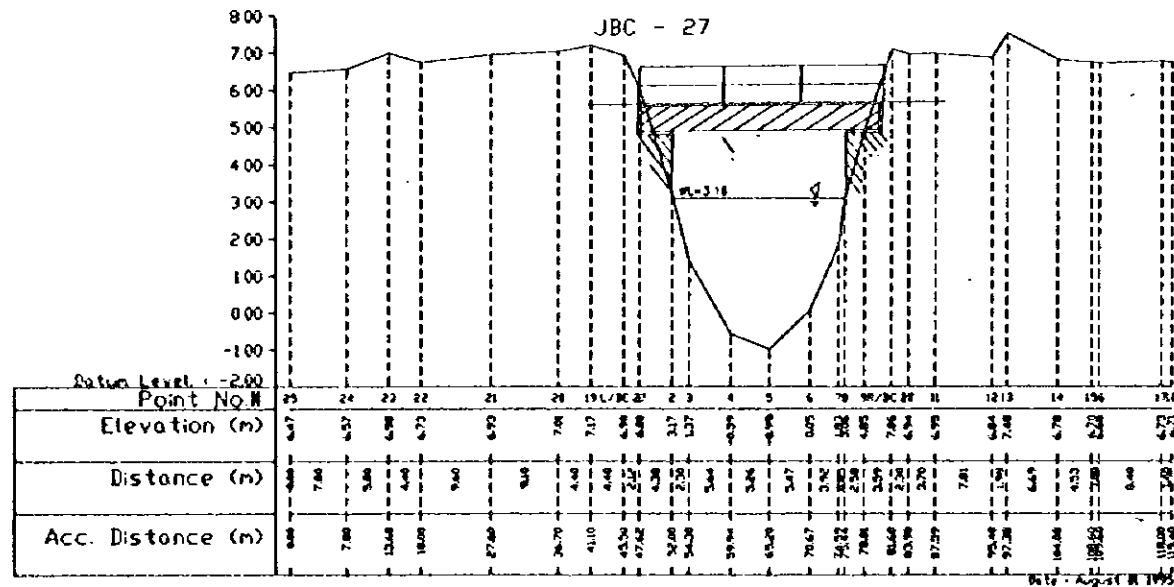
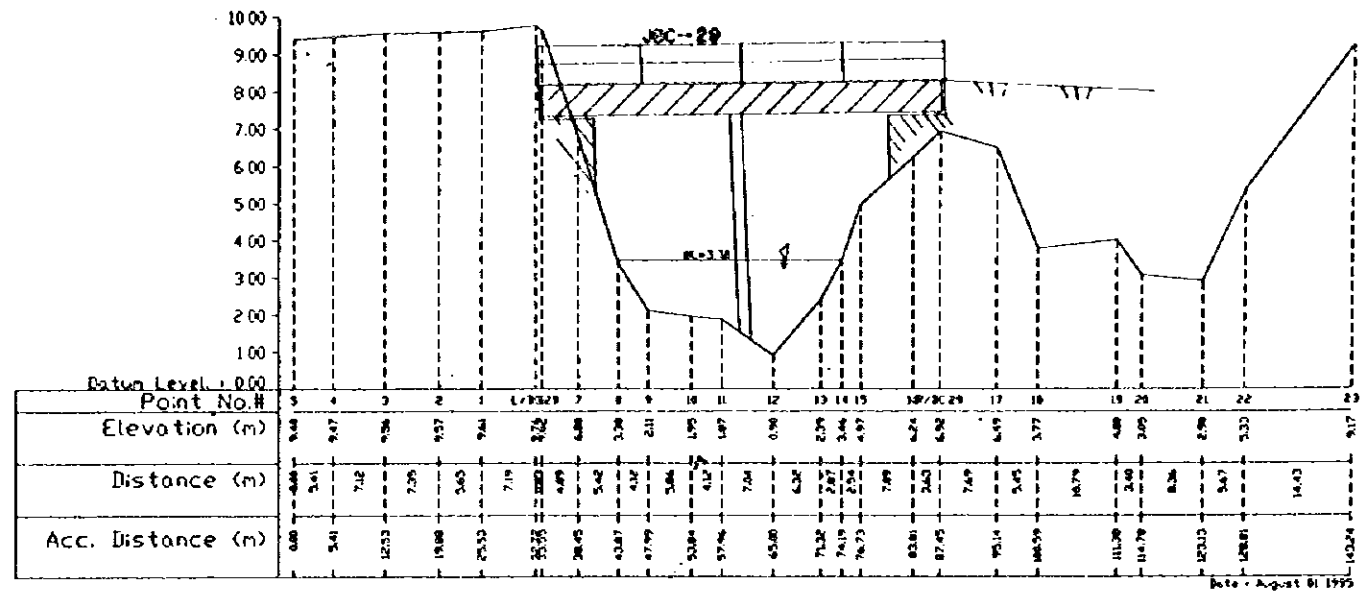
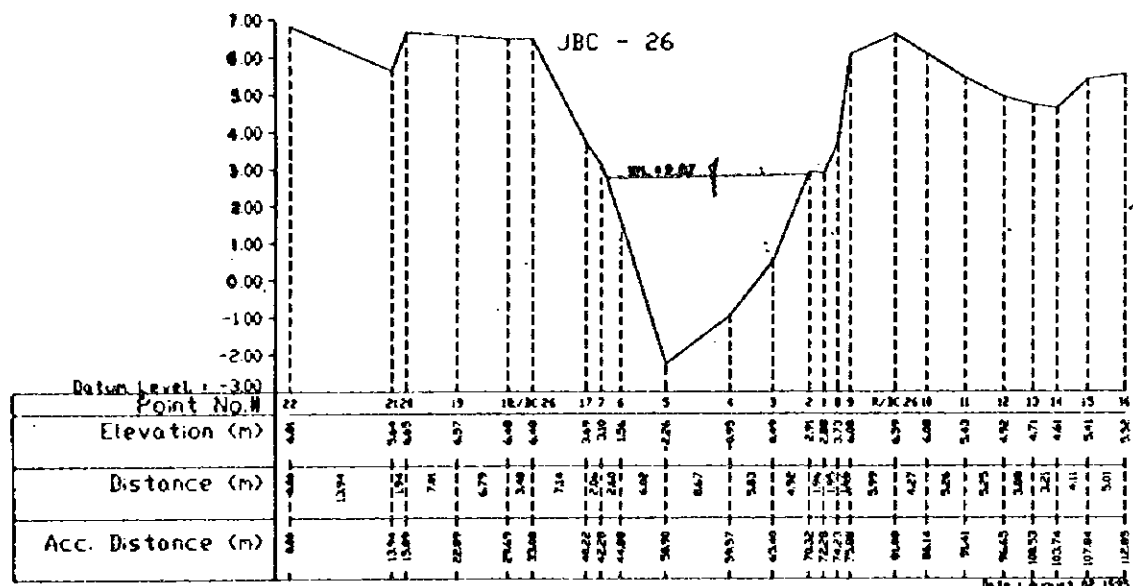
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **BAJUR CANAL** Drawing Title : **CROSS SECTION**

| | | | |
|-------------|-------------|--------------------|----------|
| Checked By | Approved By | Scale | Sheet No |
| B. PRONO | T. MAN | Horizontal 1 : 500 | 5 of 7 |
| S. SOEAPITO | K. TOPUNG | Vertical 1 : 100 | |

Date : 18.09.97

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WHATMAN & Associates
 JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIC 177 = 40.136 meters
 The correlation between other system are
 TIC 177 ± 0 = NWP = 0.925 meters = PP ± m/cr

(IN METERS)
 1 : 500

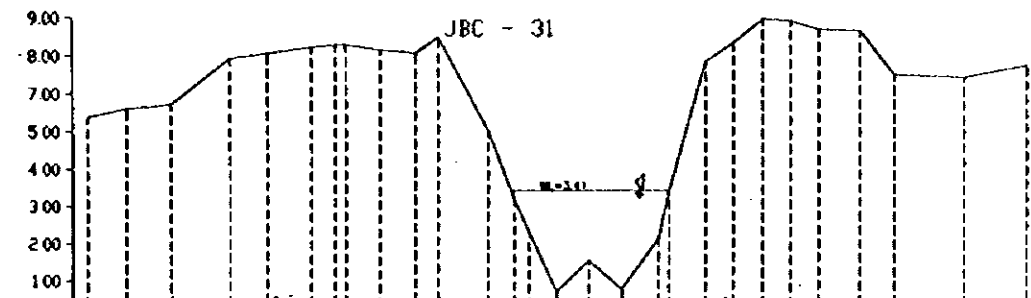
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **BAJUR CANAL** Drawing Title : **CROSS SECTION**

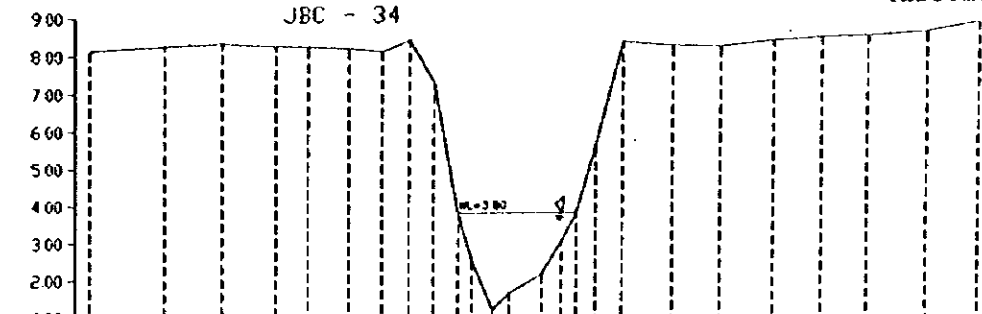
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|-----------------------------|-------------|--|----------|
| Created by | Approved by | Scale | Sheet No |
| BIMOND SOEPTO I AM R TORUNG | [Signature] | Horizontal 1 : 500 Vertical 1 : 100 | 6 of 7 |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIBATMAN & Associates** JAKARTA - INDONESIA



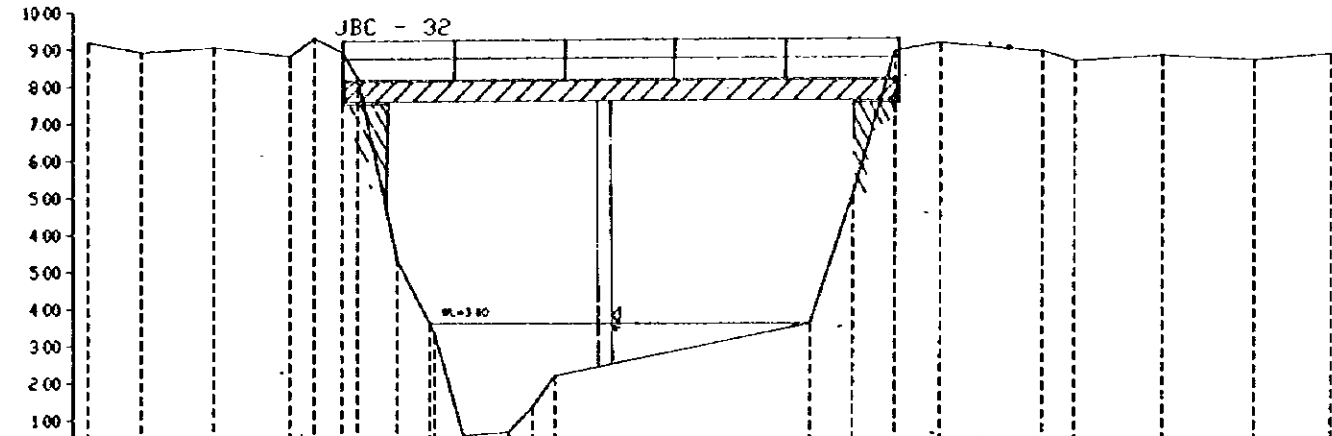
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Datum Level | : 000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point No. # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Elevation (m) | 5.29 | 5.8 | 6.77 | 6.97 | 7.8 | 7.8 | 7.2 | 5.5 | 5.8 | 7.5 | 7.7 | 7.4 | 5.3 | 4.8 | 1.5 | 0.7 | 1.5 | 2.0 | 2.5 | 3.5 | 3.2 | 2.8 | 2.7 | 2.8 | 2.8 | 2.7 |
| Distance (m) | 0.00 | 5.1 | 11.8 | 17.1 | 24.2 | 31.5 | 38.8 | 46.1 | 53.4 | 60.7 | 68.0 | 75.3 | 82.6 | 90.0 | 97.3 | 104.6 | 111.9 | 119.2 | 126.5 | 133.8 | 141.1 | 148.4 | 155.7 | 163.0 | 170.3 | 177.6 |
| Acc. Distance (m) | 0.00 | 5.1 | 11.8 | 17.1 | 24.2 | 31.5 | 38.8 | 46.1 | 53.4 | 60.7 | 68.0 | 75.3 | 82.6 | 90.0 | 97.3 | 104.6 | 111.9 | 119.2 | 126.5 | 133.8 | 141.1 | 148.4 | 155.7 | 163.0 | 170.3 | 177.6 |

Date : July 31 1995



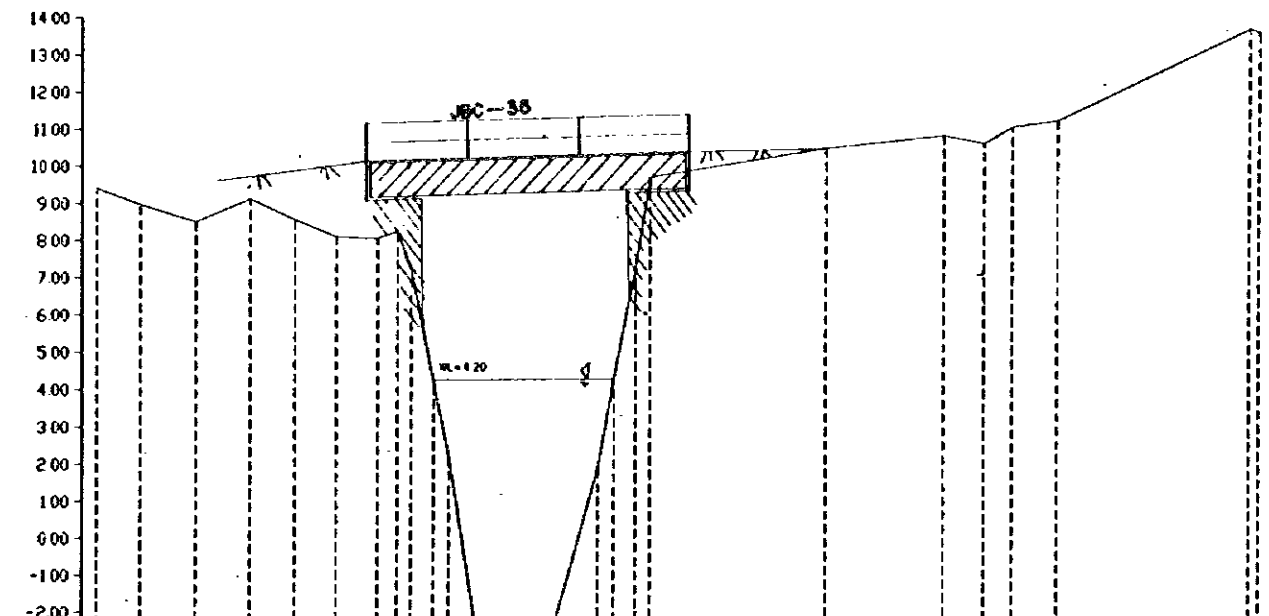
| | | | | | | | | | | | | | | | |
|-------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Datum Level | : 000 | | | | | | | | | | | | | | |
| Point No. # | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| Elevation (m) | 6.5 | 6.8 | 6.5 | 6.2 | 6.7 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| Distance (m) | 0.00 | 16.0 | 32.0 | 48.0 | 64.0 | 80.0 | 96.0 | 112.0 | 128.0 | 144.0 | 160.0 | 176.0 | 192.0 | 208.0 | 224.0 |
| Acc. Distance (m) | 0.00 | 16.0 | 32.0 | 48.0 | 64.0 | 80.0 | 96.0 | 112.0 | 128.0 | 144.0 | 160.0 | 176.0 | 192.0 | 208.0 | 224.0 |

Date : July 30 1995



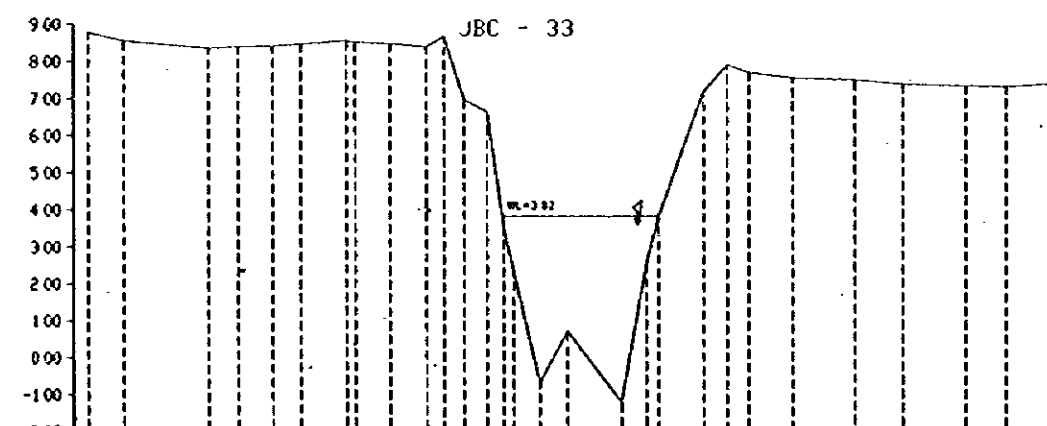
| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| Datum Level | : 000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Point No. # | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | | | | | | | | | |
| Elevation (m) | 11.9 | 16.9 | 11.9 | 16.8 | 11.8 | 16.8 | 11.8 | 16.8 | 11.8 | 16.8 | 11.8 | 16.8 | 11.8 | 16.8 | 11.8 | | | | | | | | | | |
| Distance (m) | 0.00 | 7.0 | 14.0 | 21.0 | 28.0 | 35.0 | 42.0 | 49.0 | 56.0 | 63.0 | 70.0 | 77.0 | 84.0 | 91.0 | 98.0 | | | | | | | | | | |
| Acc. Distance (m) | 0.00 | 7.0 | 14.0 | 21.0 | 28.0 | 35.0 | 42.0 | 49.0 | 56.0 | 63.0 | 70.0 | 77.0 | 84.0 | 91.0 | 98.0 | | | | | | | | | | |

Date : July 31 1995



| | | | | | | | | | | | | | | | | | |
|-------------------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Datum Level | : -300 | | | | | | | | | | | | | | | | |
| Point No. # | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | |
| Elevation (m) | 9.6 | 6.7 | 8.4 | 6.1 | 6.2 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | |
| Distance (m) | 0.00 | 5.87 | 11.74 | 17.61 | 23.48 | 29.35 | 35.22 | 41.09 | 46.96 | 52.83 | 58.70 | 64.57 | 70.44 | 76.31 | 82.18 | 88.05 | |
| Acc. Distance (m) | 0.00 | 5.87 | 11.74 | 17.61 | 23.48 | 29.35 | 35.22 | 41.09 | 46.96 | 52.83 | 58.70 | 64.57 | 70.44 | 76.31 | 82.18 | 88.05 | |

Date : July 26 1995



| | | | | | | | | | | | |
|-------------------|--------|-----|-----|------|------|------|------|------|------|------|------|
| Datum Level | : -300 | | | | | | | | | | |
| Point No. # | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Elevation (m) | 0.2 | 0.5 | 0.2 | 0.1 | 0.7 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| Distance (m) | 0.00 | 4.7 | 9.4 | 14.1 | 18.8 | 23.5 | 28.2 | 32.9 | 37.6 | 42.3 | 47.0 |
| Acc. Distance (m) | 0.00 | 4.7 | 9.4 | 14.1 | 18.8 | 23.5 | 28.2 | 32.9 | 37.6 | 42.3 | 47.0 |

Date : July 26 1995

Reference Point :
 - The Elevation is referred to TIC 177 = 40.136 meters
 - The correlation between other system are :
 TIC 177 ± 0 = NAP - 0.975 meters = PP ± meter

(IN METERS)

1 : 500

1 : 100

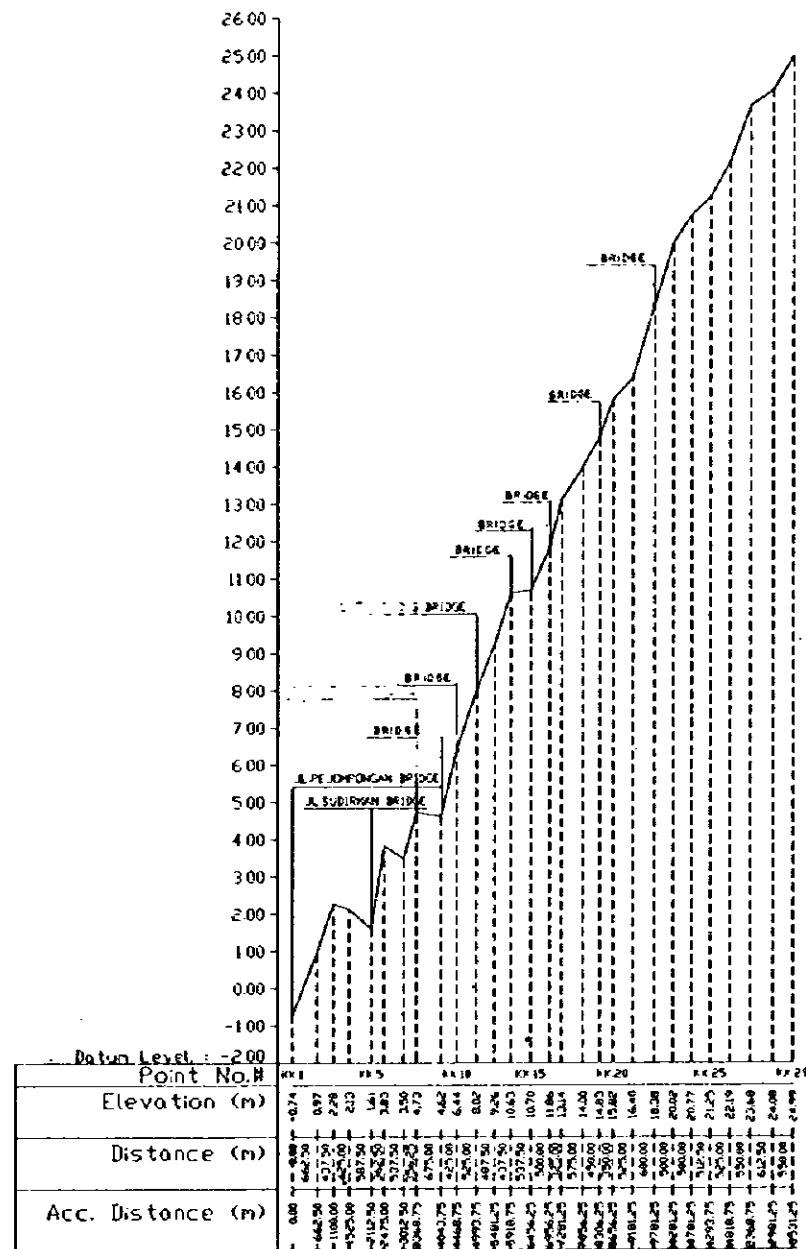
No = 1/608

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

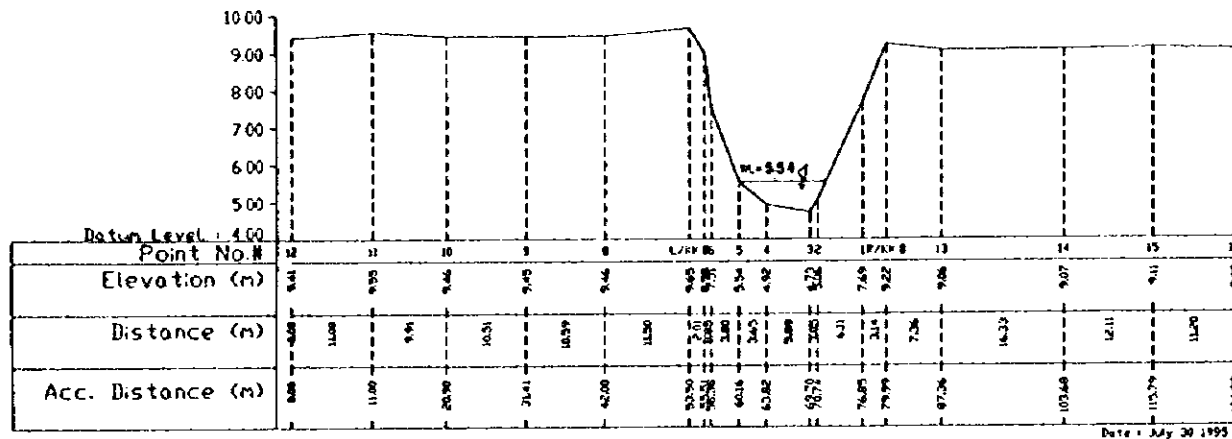
| | |
|---|--|
| Name of River : BALIKR CANAL | Drawing Title : CROSS SECTION |
| Checked by : Name : <i>BIRMANO</i> Signature : <i>[Signature]</i> Date : <i>12.02.95</i> | Approved by : Name : <i>K. TOPANE</i> Signature : <i>[Signature]</i> Date : <i>12.02.95</i> |
| Scale : Horizontal : 1 : 500 Vertical : 1 : 100 | Sheet No : 7 of 7 |

| | |
|--|--|
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | WIRATMAN & Associates JAKARTA - INDONESIA |
|--|--|

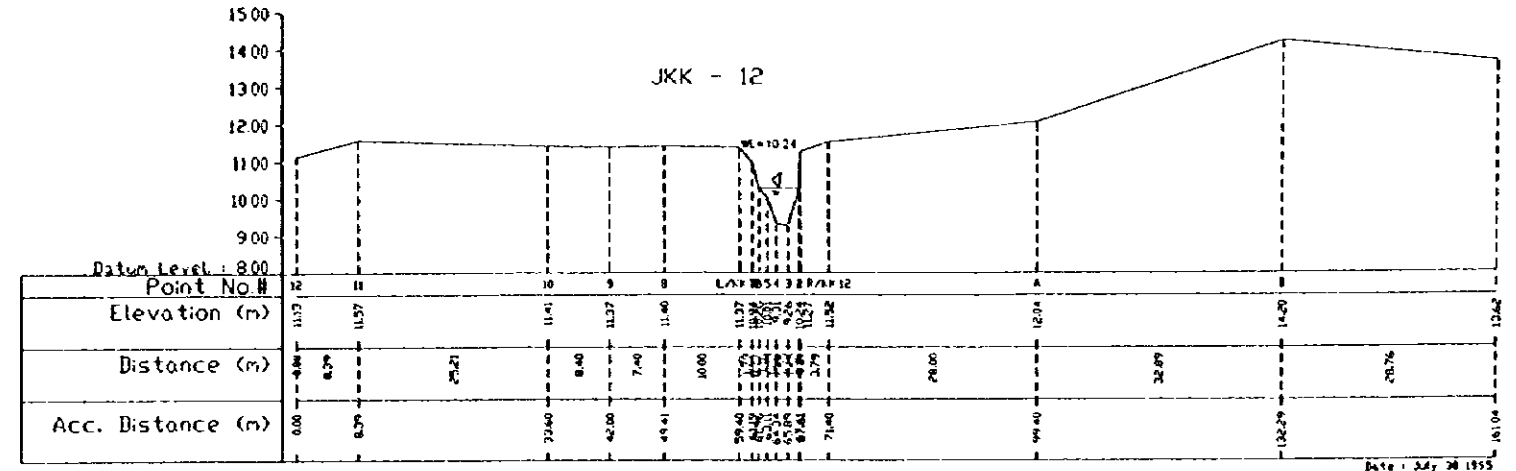


| | | | |
|---|---|---|---------------------|
| Reference Point : The Elevation is referred to ITG 177 (ITG 177 = 40.136 meters) The correlation between other system are : ITG 177 ± 6.0 = ANP - 0.875 meters = PP ± : meters | | | |
| MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT | | | |
| THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK | | | |
| Name of River : KRUKUT RIVER | | Drawing Title : LONGITUDINAL PROFILE | |
| Checked by Name : <i>B. SUDARNO</i> Signature : <i>[Signature]</i> Date : <i>25.07.2011</i> | Approved by Name : <i>I. HAN</i> Signature : <i>[Signature]</i> Date : <i>26.07.2011</i> | Scale Horizontal 1 : 100000 Vertical 1 : 100 | Sheet No. 1 of 1 |
| JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | WIRATMAN & Associates JAKARTA - INDONESIA | |

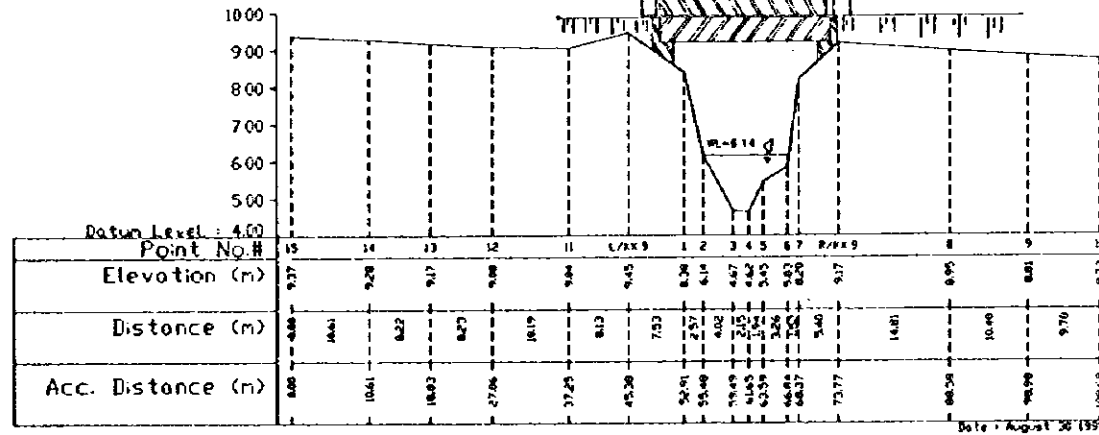
JKK - 08



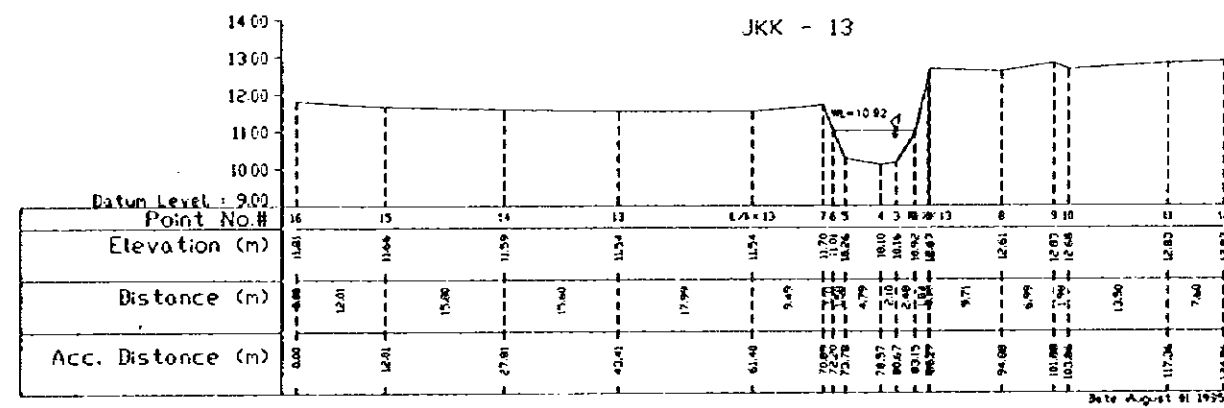
JKK - 12



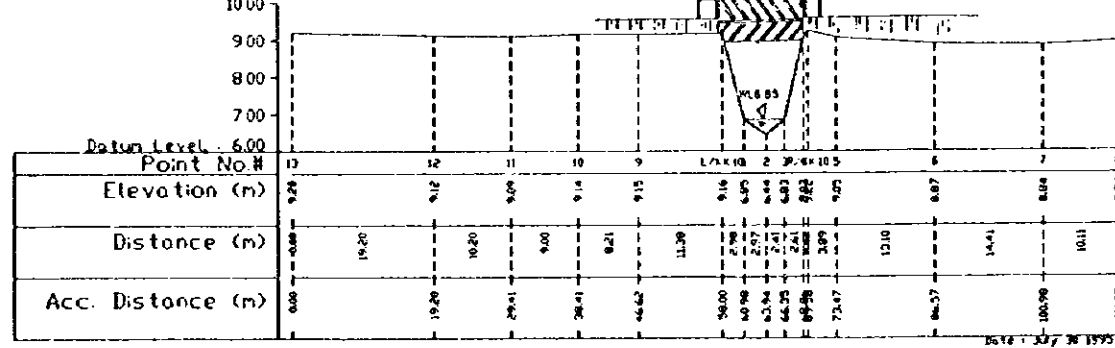
JKK - 09



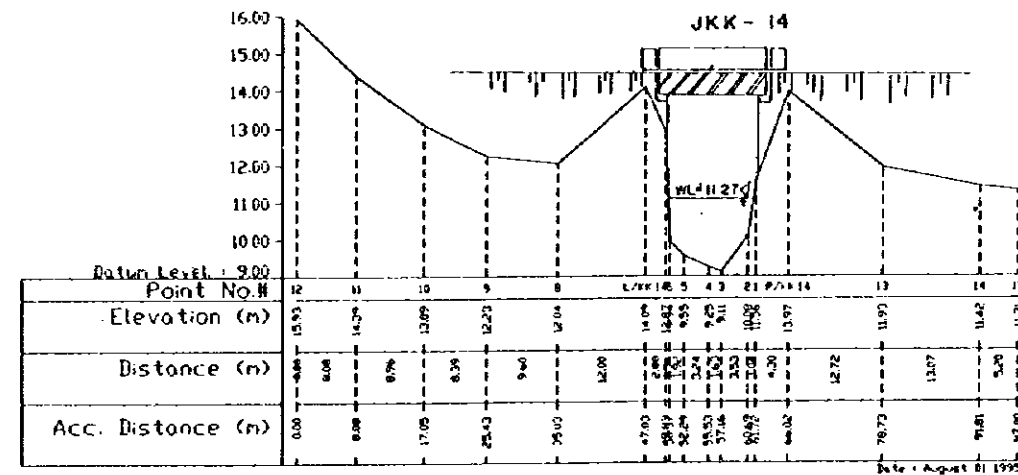
JKK - 13



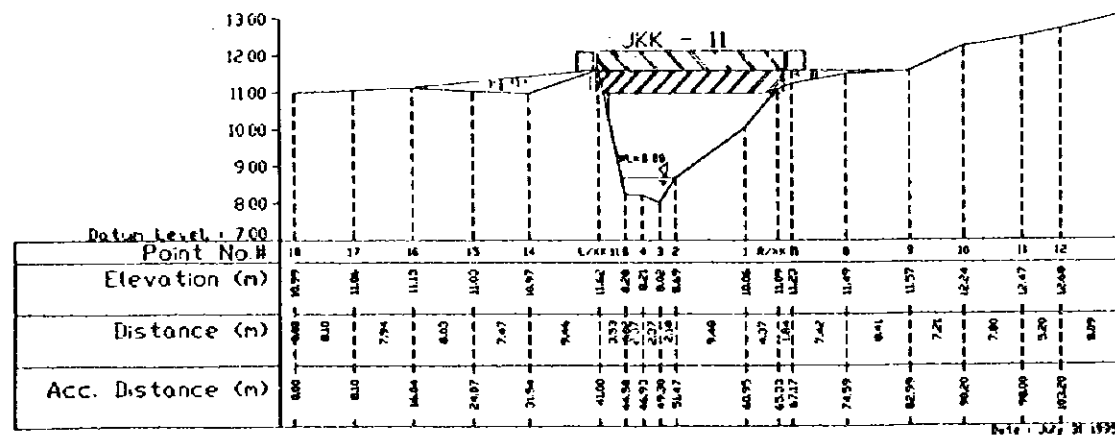
JKK - 10



JKK - 14



JKK - 11



Reference Point:
 The Elevation is referred to TIG 177 = 40 136 meters
 The correlation between other system are
 TIG 177 ± 0 = ANP - 0375 meters + PP ± ...

(IN METERS)
 Scale: 1:500

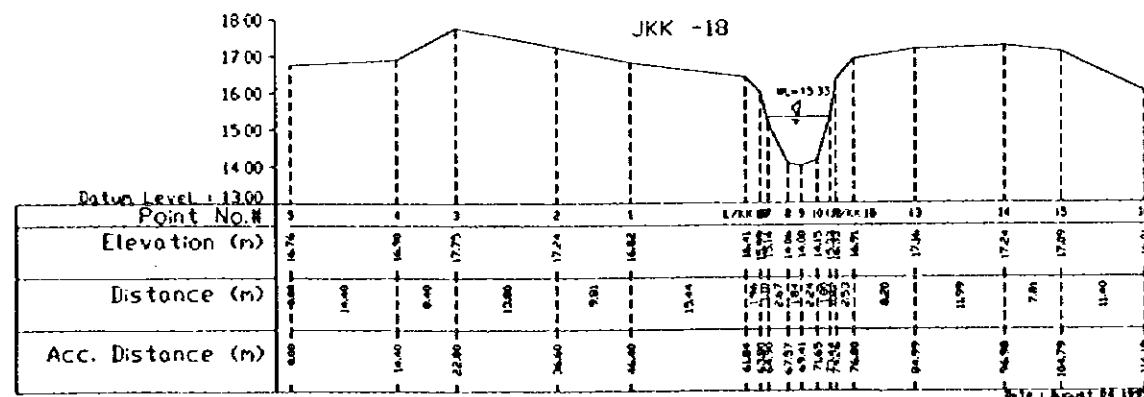
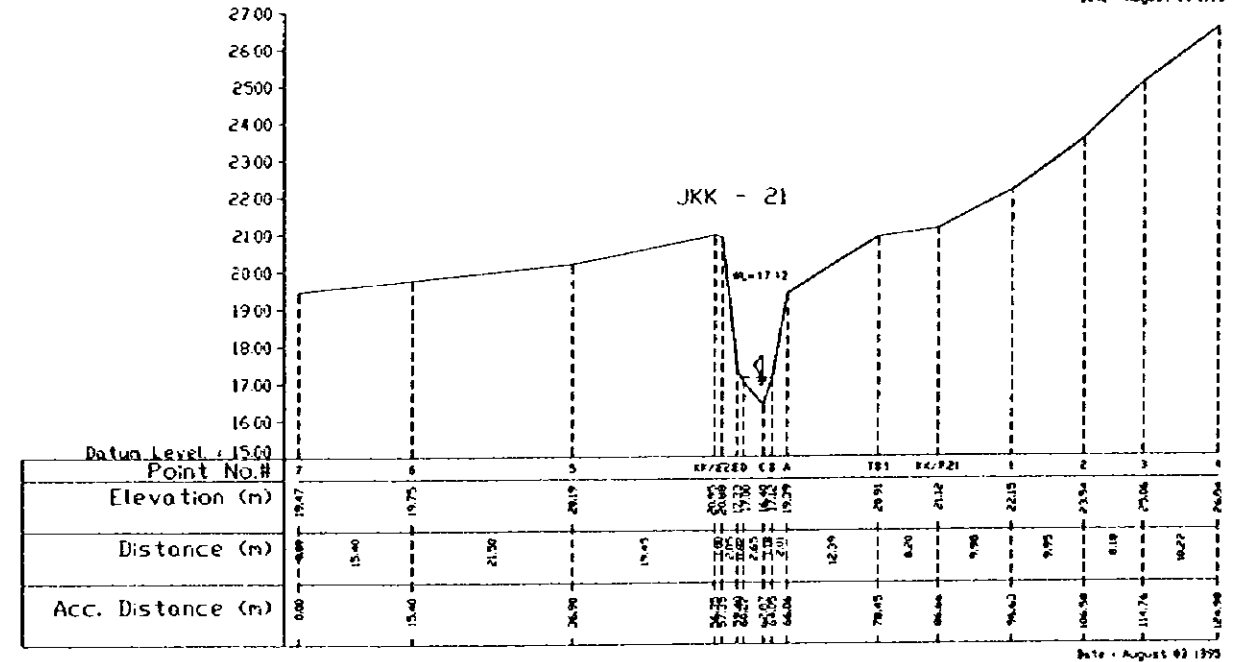
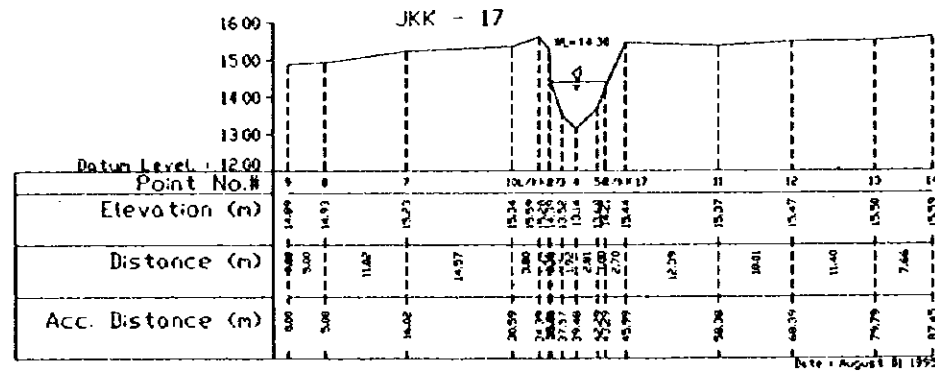
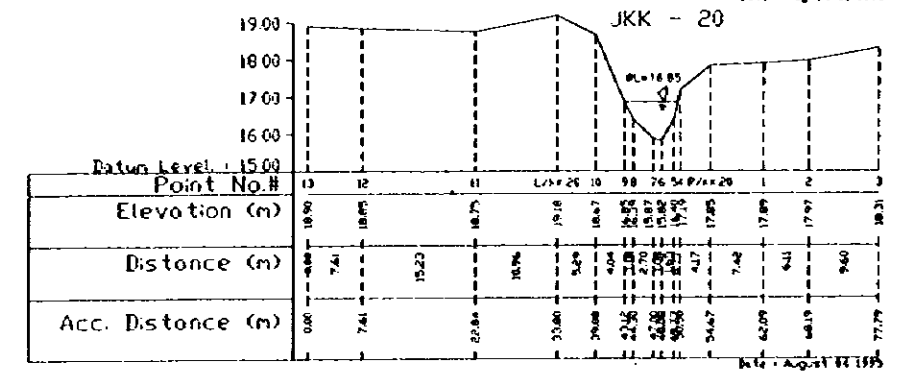
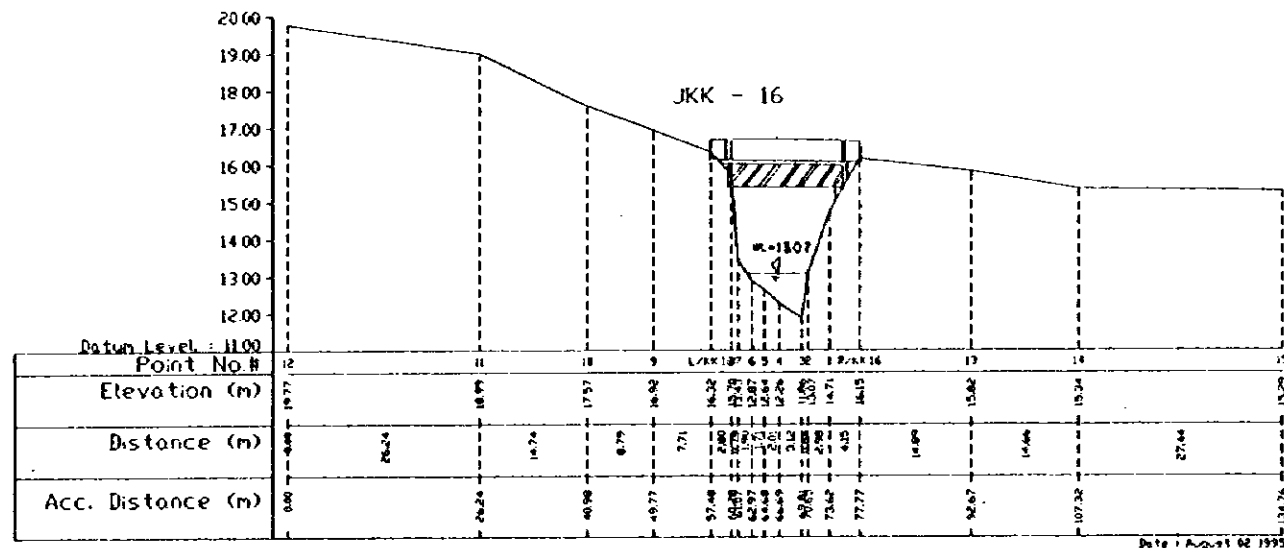
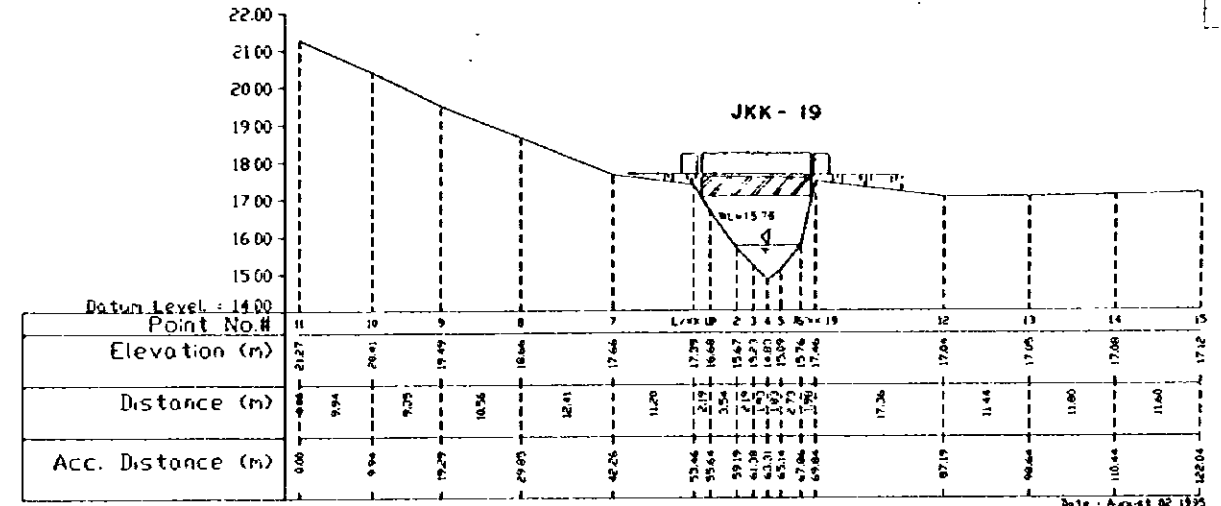
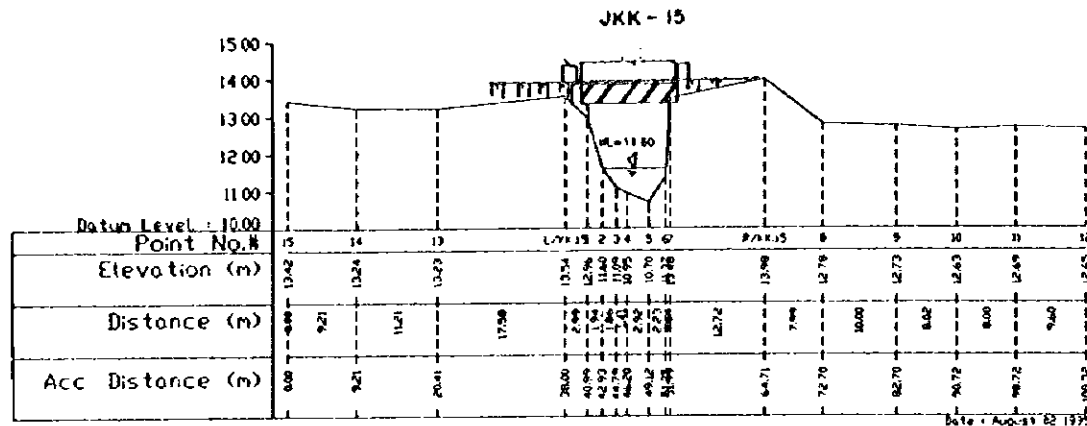
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **KRUKUT RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------------------|------------------------|--------------------|----------|
| Checked by | Approved by | Scale | Sheet No |
| Signature: [Signature] | Signature: [Signature] | Horizontal 1 : 500 | 2 of 4 |
| Date: 15-11-95 | Date: 20-11-95 | Vertical 1 : 100 | |

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WRATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITC 177 = 40136 meters
 The correlation between other system are :
 ITC 177 ± 0 = NWP - 0.875 meters = PP + ... meter

(IN METERS)
 1 : 500
 1 : 100
 N = 1.000

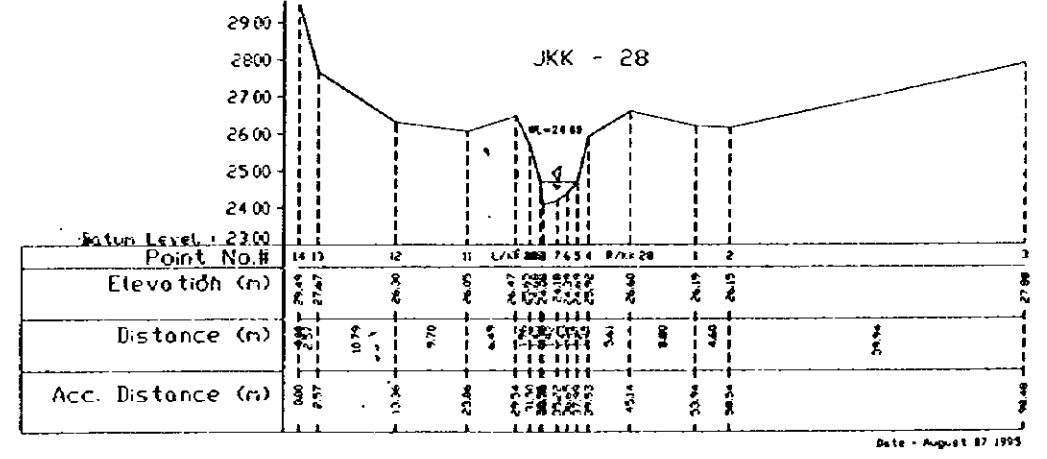
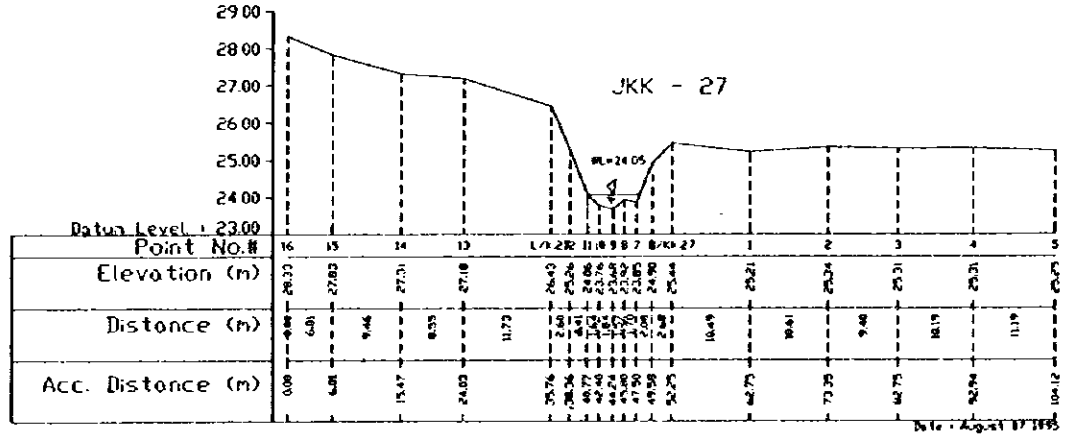
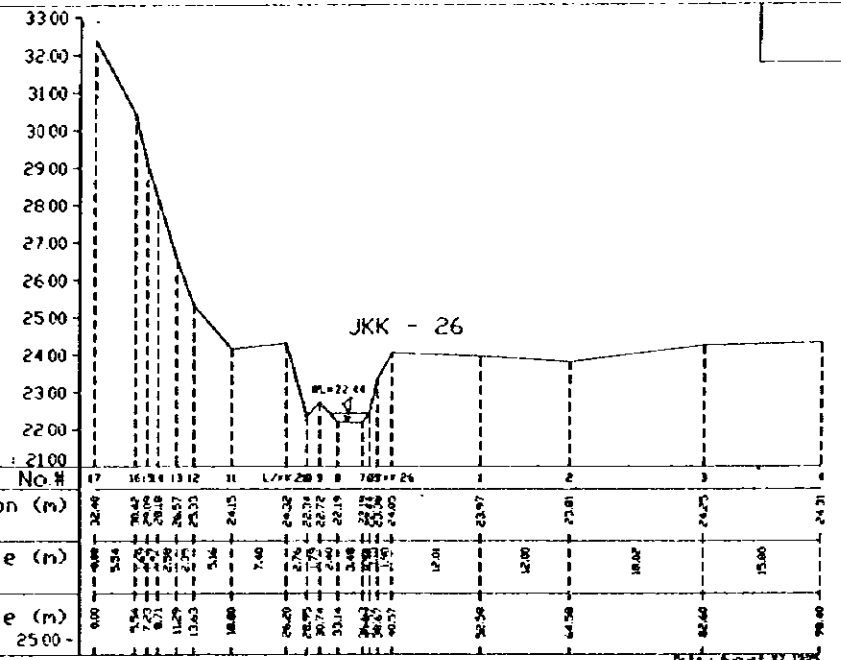
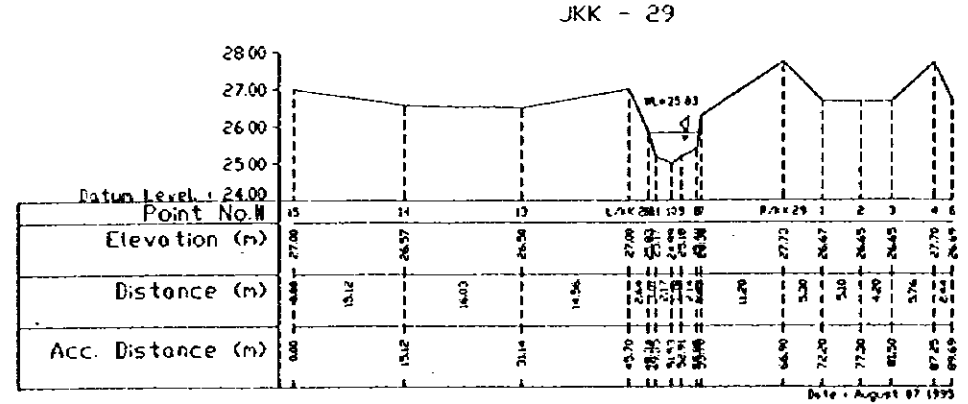
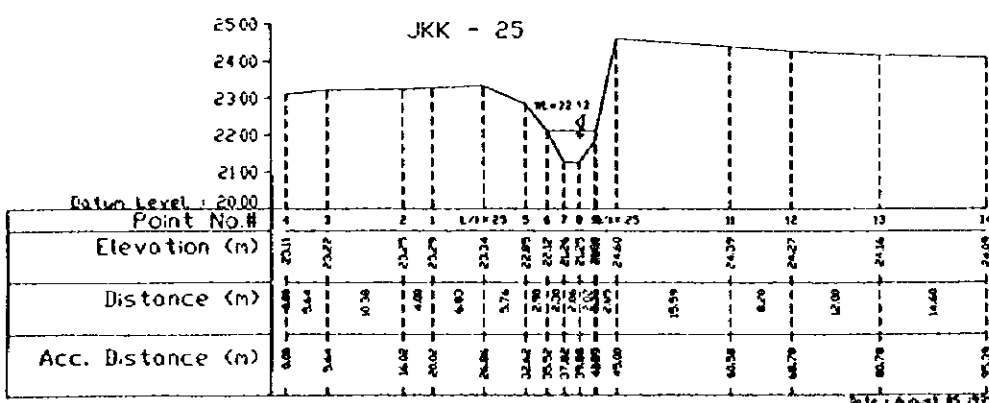
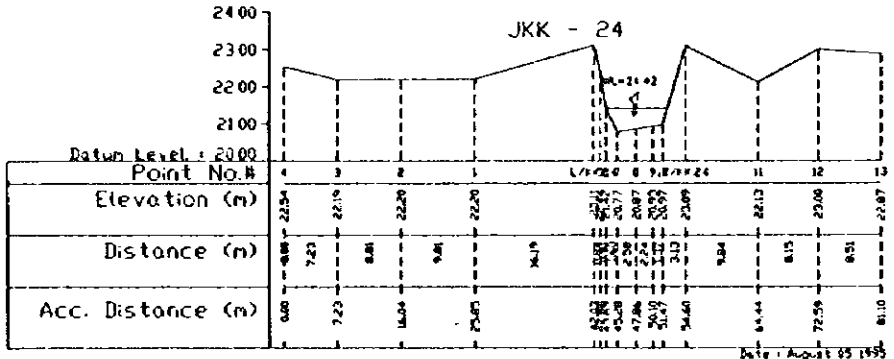
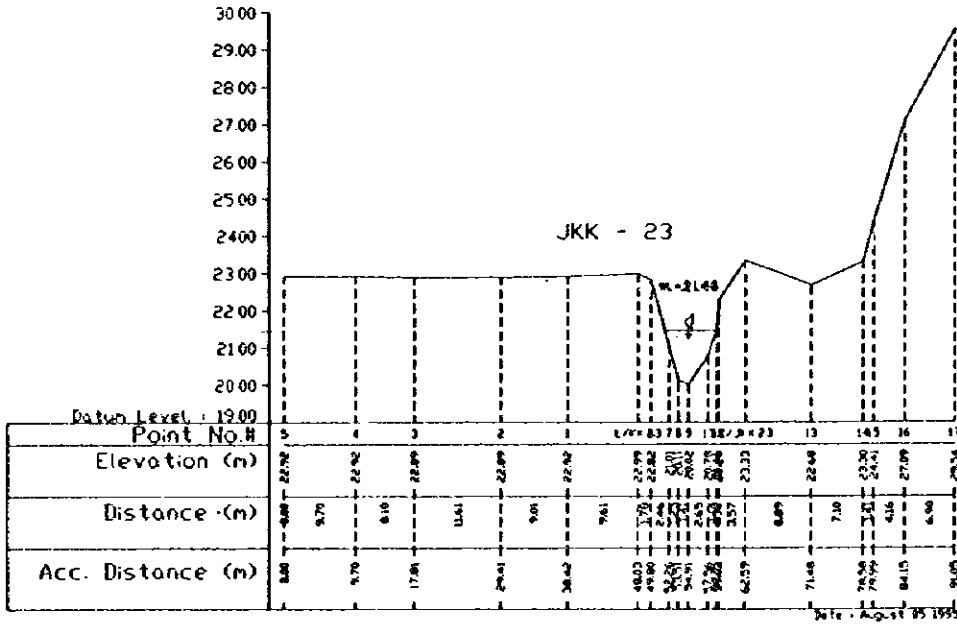
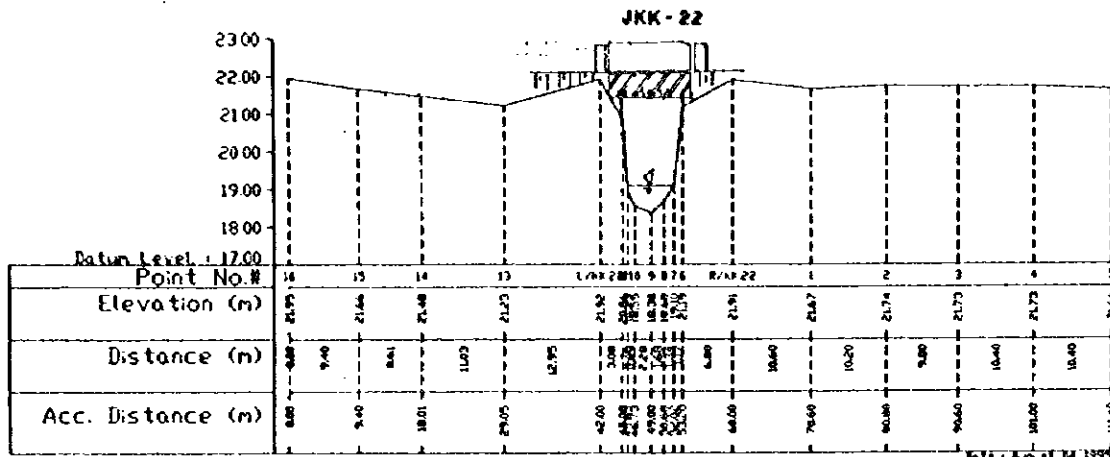
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CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **KRUKUT RIVER** Drawing Title : **CROSS SECTION**

| | | | |
|------------|-------------|--------------------|-----------|
| Checked by | Approved by | Scale | Sheet No. |
| None | None | Horizontal 1 : 500 | 3 of 4 |
| Signature | Signature | Vertical 1 : 100 | |
| Date | Date | | |

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Reference Point:
The Elevation is referred to TIG 177 = 42.154 meters
The correlation between other system are
TIG 177 ± 0 = MNP - 0.875 meters = PP + ... meter

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Checked by : *[Signature]* Approved by : *[Signature]* Scale : Horizontal 1 : 500 Sheet No : 4 of 4

Date : 11.11.95 12.11.95 20.11.95

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