

REPUBLIC OF INDONESIA  
MINISTRY OF COMMUNICATIONS  
DIRECTORATE GENERAL OF LAND TRANSPORT  
AND INLAND WATERWAYS

**TENDER DOCUMENTS  
FOR  
NEW RAILWAY LINE FOR CENGKARENG AIRPORT  
CONSTRUCTION PROJECT**

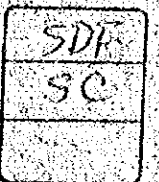
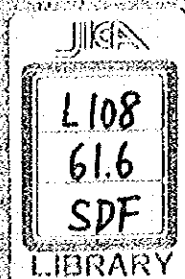
**PACKAGE I CIVIL AND ARCHITECTURAL WORK**

PART F DRAWINGS

2 of 3

AUGUST 1984

**JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA)**



116

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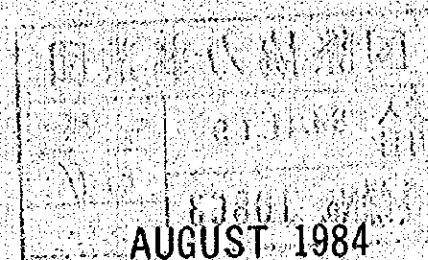
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PART F DRAWINGS

2 of 3



**JAPAN INTERNATIONAL COOPERATION AGENCY  
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TENDER DOCUMENTS  
FOR  
NEW RAILWAY LINE FOR CENKABENGA AIRPORT  
CONSTRUCTION PROJECT

PACKAGE 1 CIVIL AND ARCHITECTURAL WORK  
PART 1 DRAWINGS

8 of 8

国際協力事業団	
受入 月日 '84.11.19	L108
登録No. 10863	61.6
	SDF

引取品

JAPAN INTERNATIONAL COOPERATION AGENCY

(A01)

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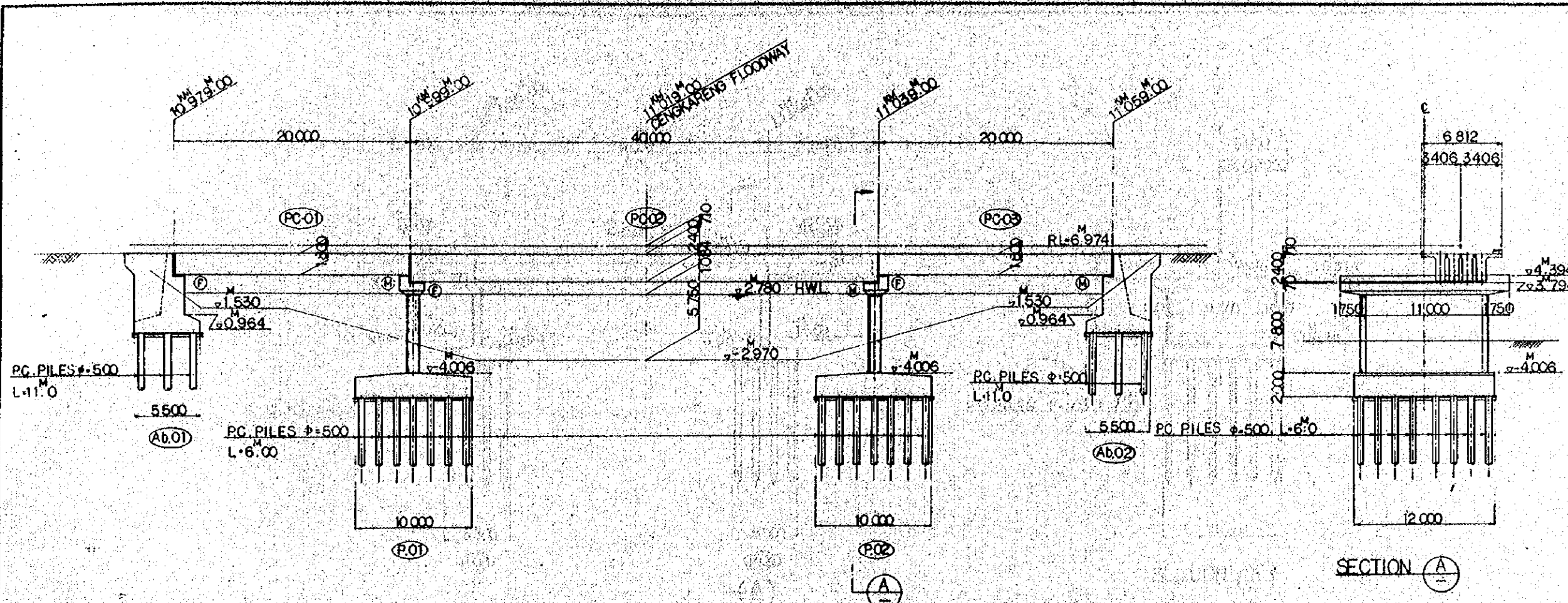
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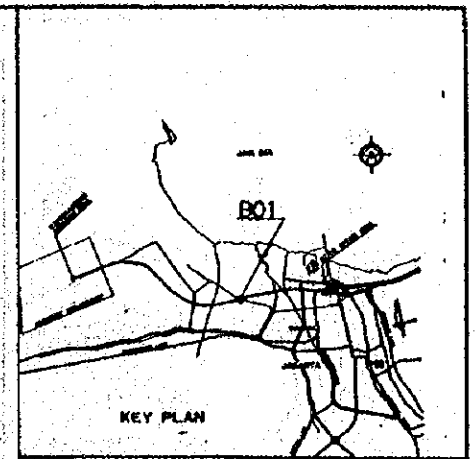
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207	— DO — (SHEET 4 OF 6)		
208	— DO — (SHEET 5 OF 6)		
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LONGITUDINAL SECTION



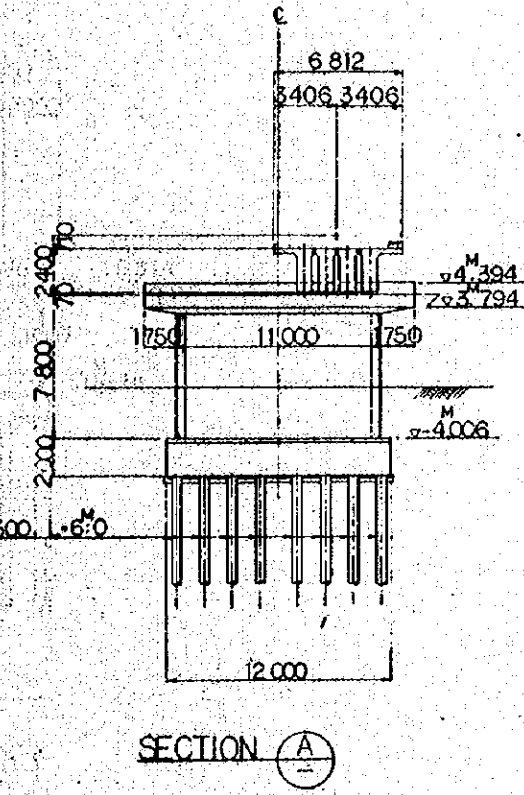
KEY PLAN

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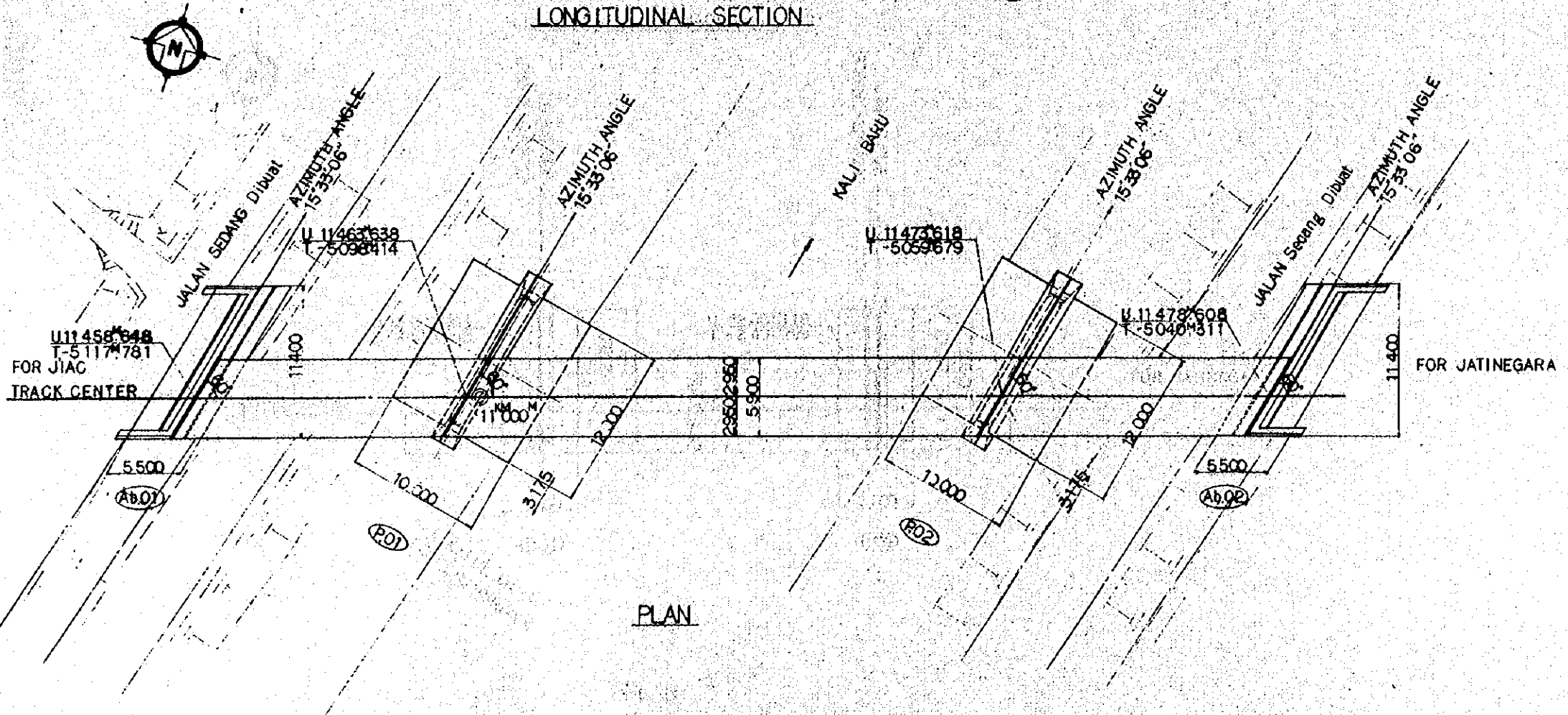
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3. CODE:

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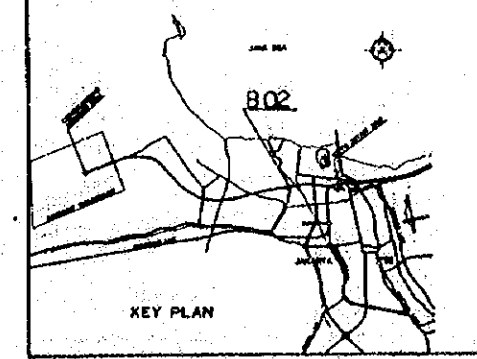
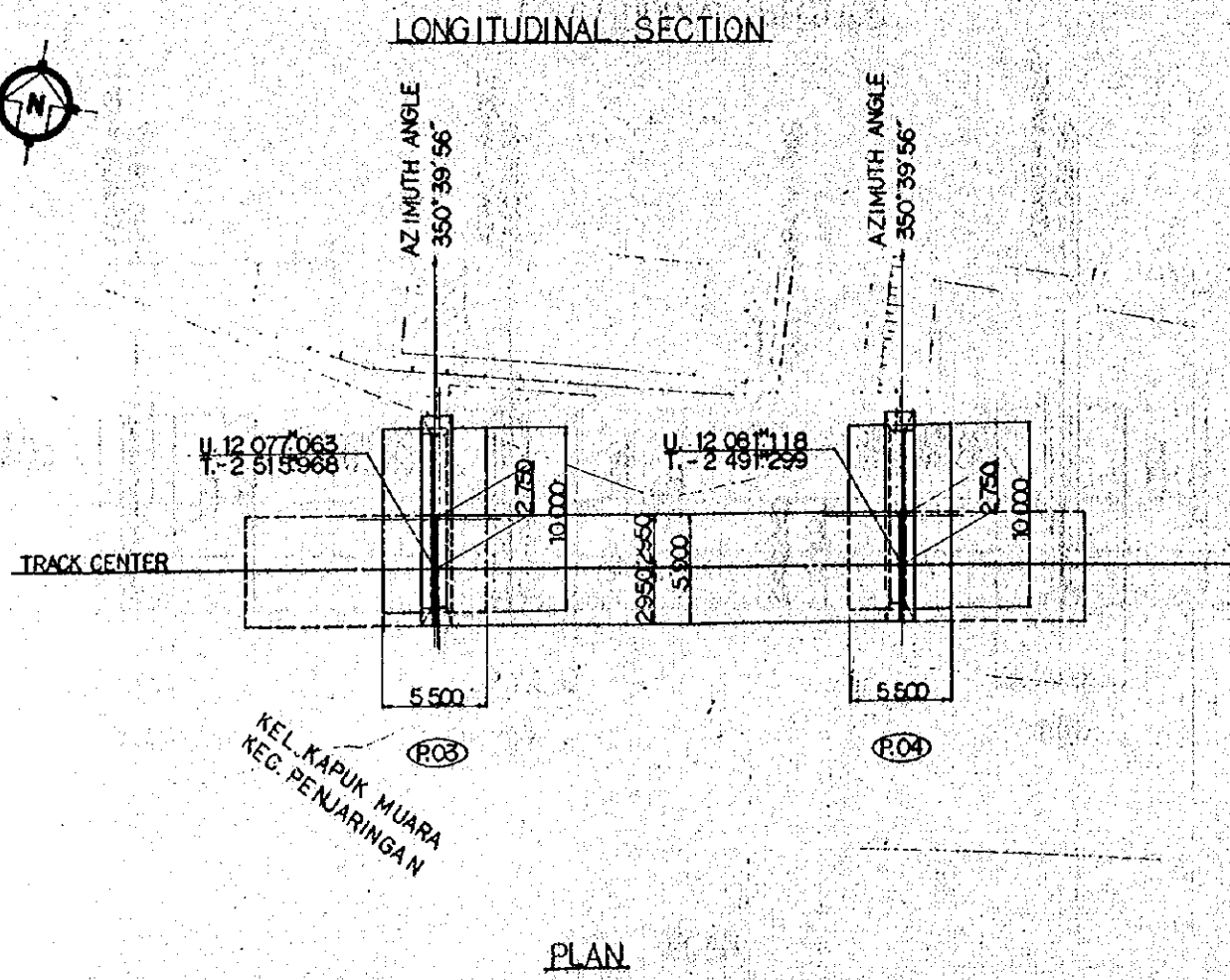
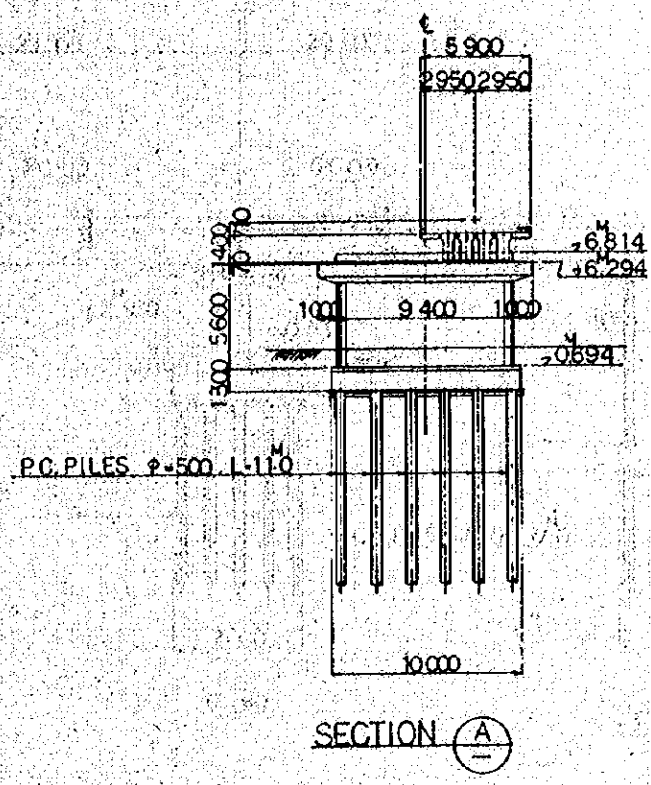
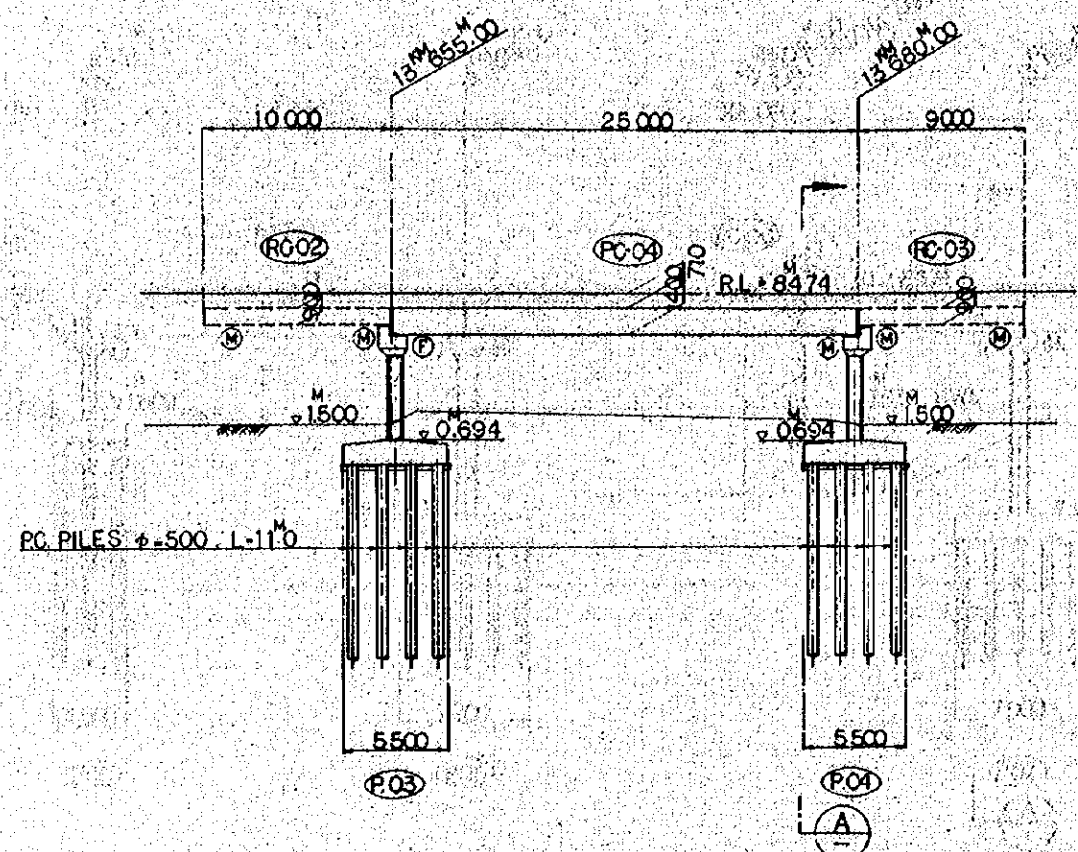


SECTION A-A



PLAN

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG '84	M.Y.	M.Y.	K.A.	K.M.	A.K.
A	15 FEB '84	M.Y.	M.Y.	K.A.	K.M.	A.K.
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
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PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
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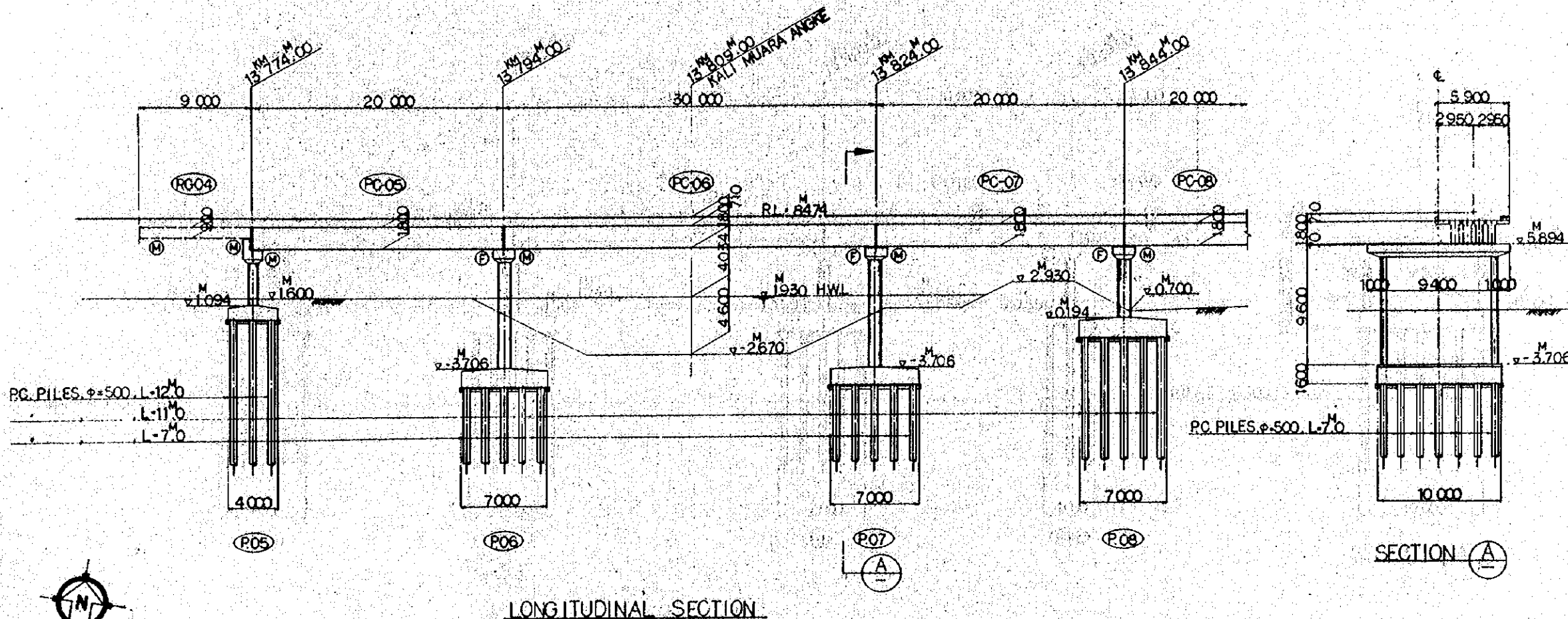
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  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-185,CS-029,CS-106,CS-077.
  3. CODE:
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    - ⊙-----EXPANSION BEARING

REPUBLIC OF INDONESIA						
MINISTRY OF COMMUNICATIONS						
DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1AUG'84	LLY	m.y	K.S	K.M	m.k
A	15FEB'84	M.Y	m.y	K.S	K.M	m.k
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
BRIDGE B02						
GENERAL VIEW						
PACKAGE: 1 CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-002				

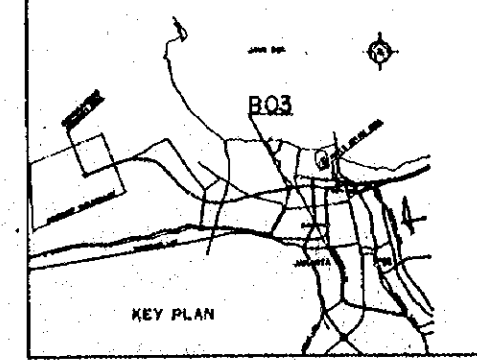
FOR JIAC

FOR JATINEGARA

KEL. KAPUK MUARA  
KEC. PENJARINGAN



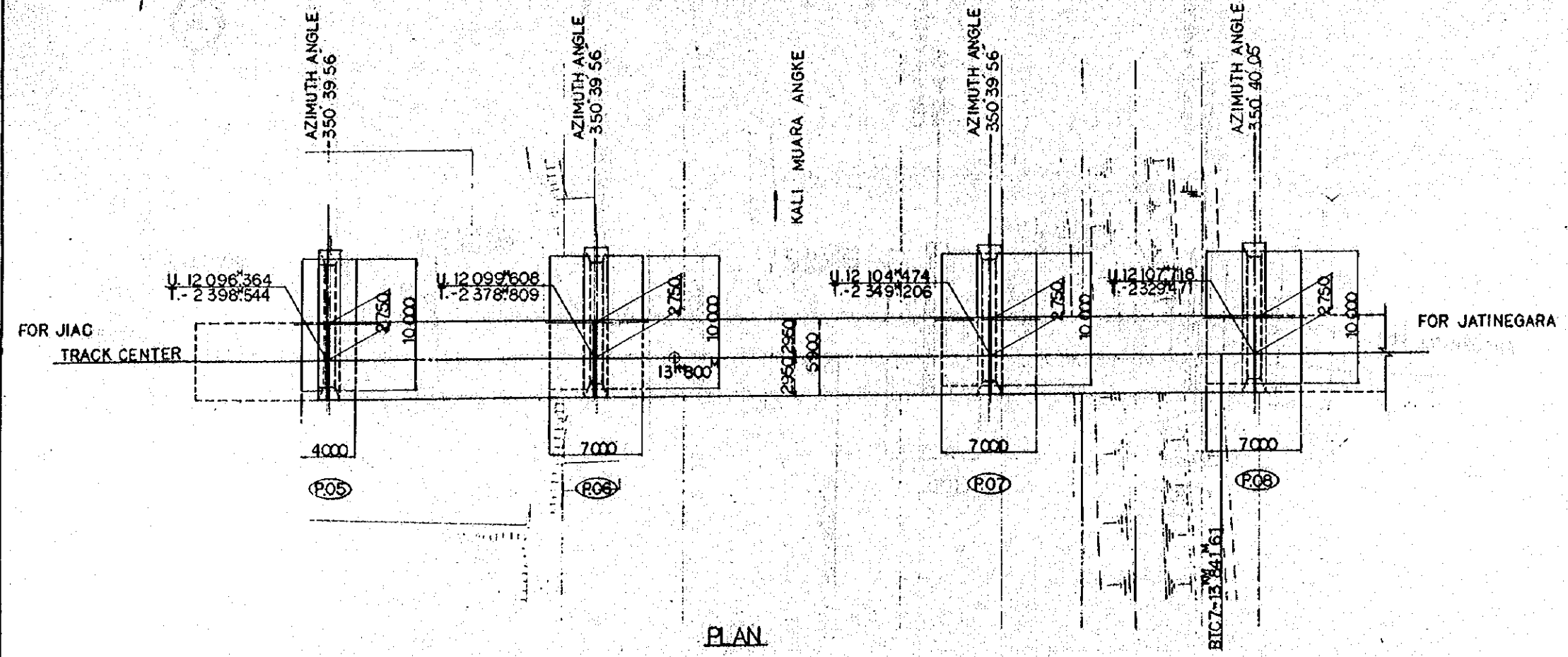
SECTION A



- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
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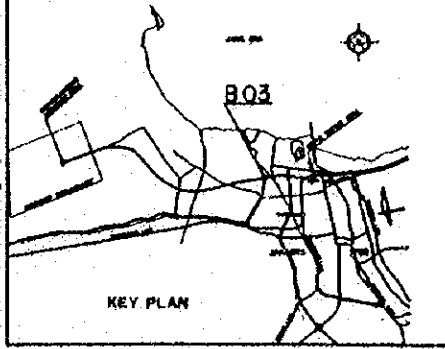
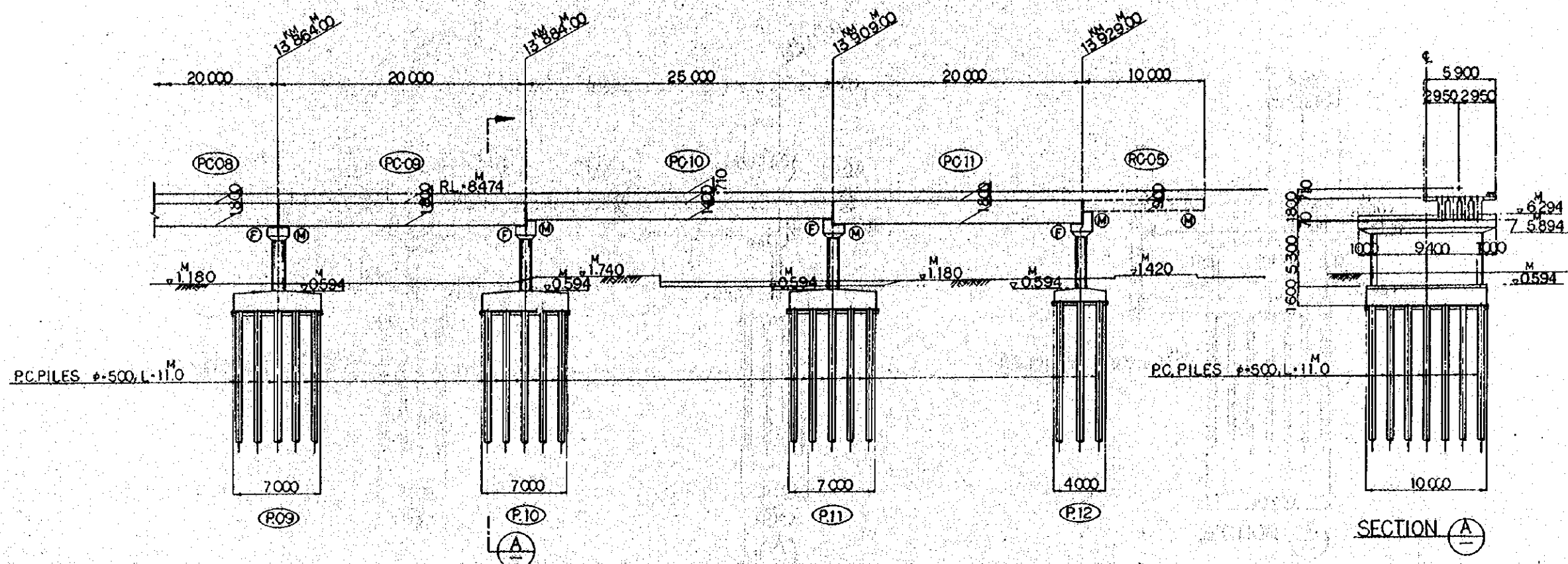


LONGITUDINAL SECTION

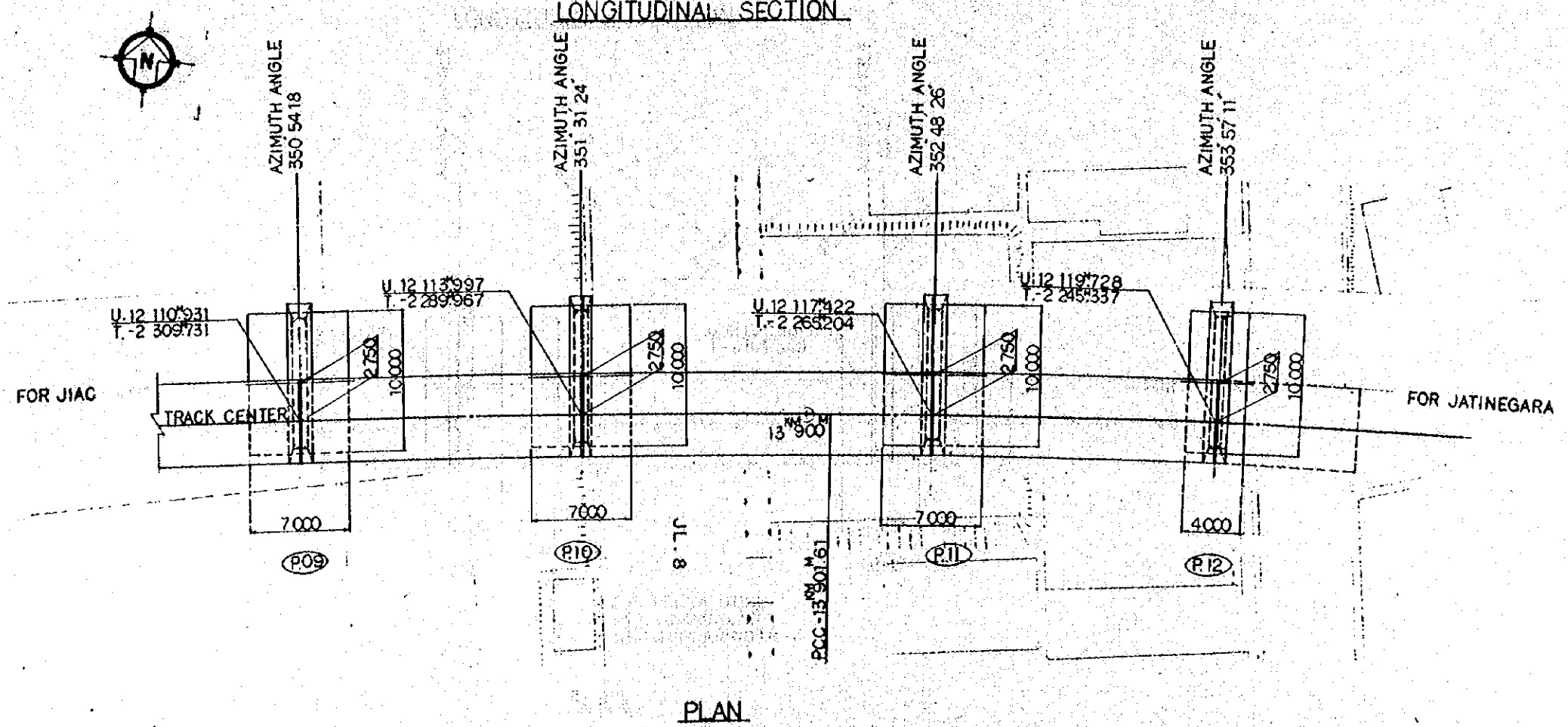


PLAN

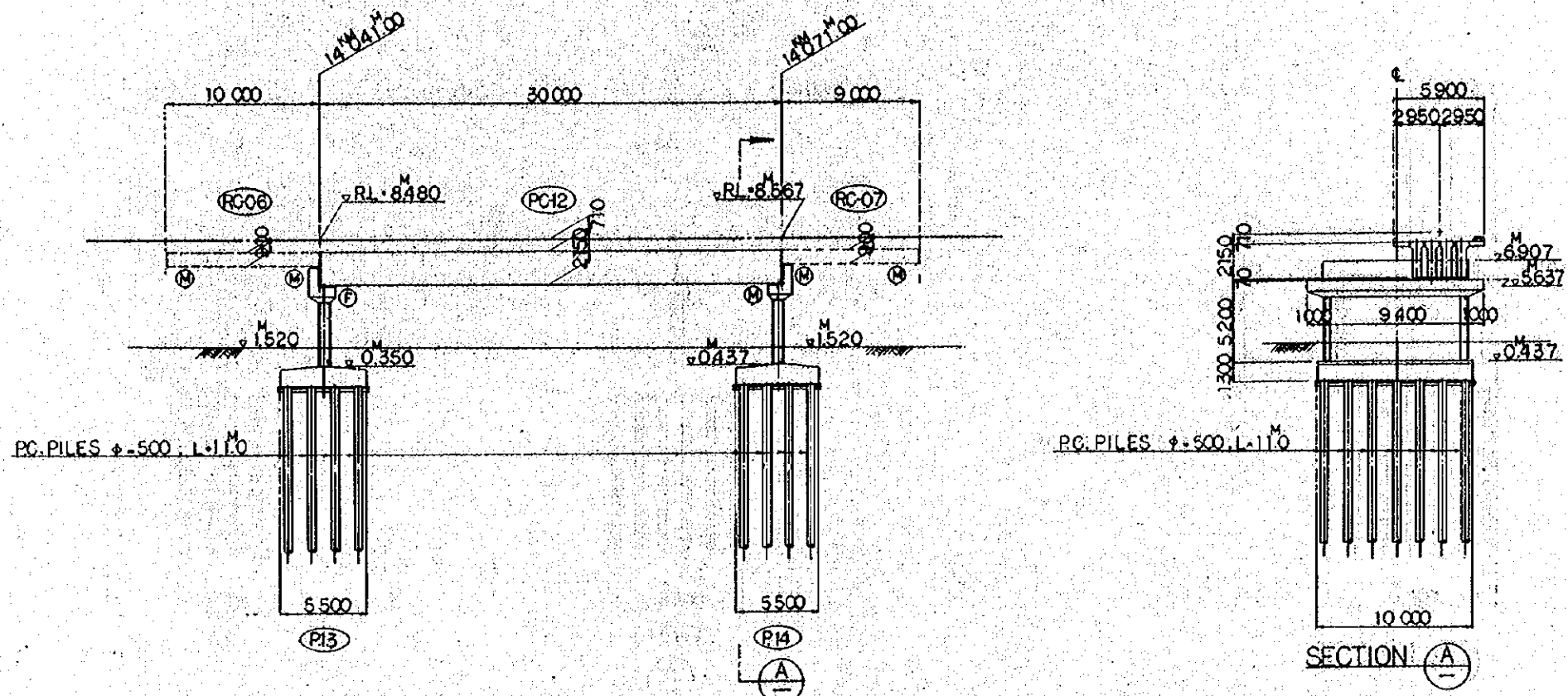
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG '84	NY	m-y	KA	UM	me
A	15 FEB '84	NY	n-y	KA	UM	me
REVISOR	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
BRIDGE B03 GENERAL VIEW (SHEET 1 OF 2)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-003				



- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - REFERENCE DRAWING FOR GENERAL VIEW: CS-033, CS-029, CS-190, CS-083, CS-084, CS-085
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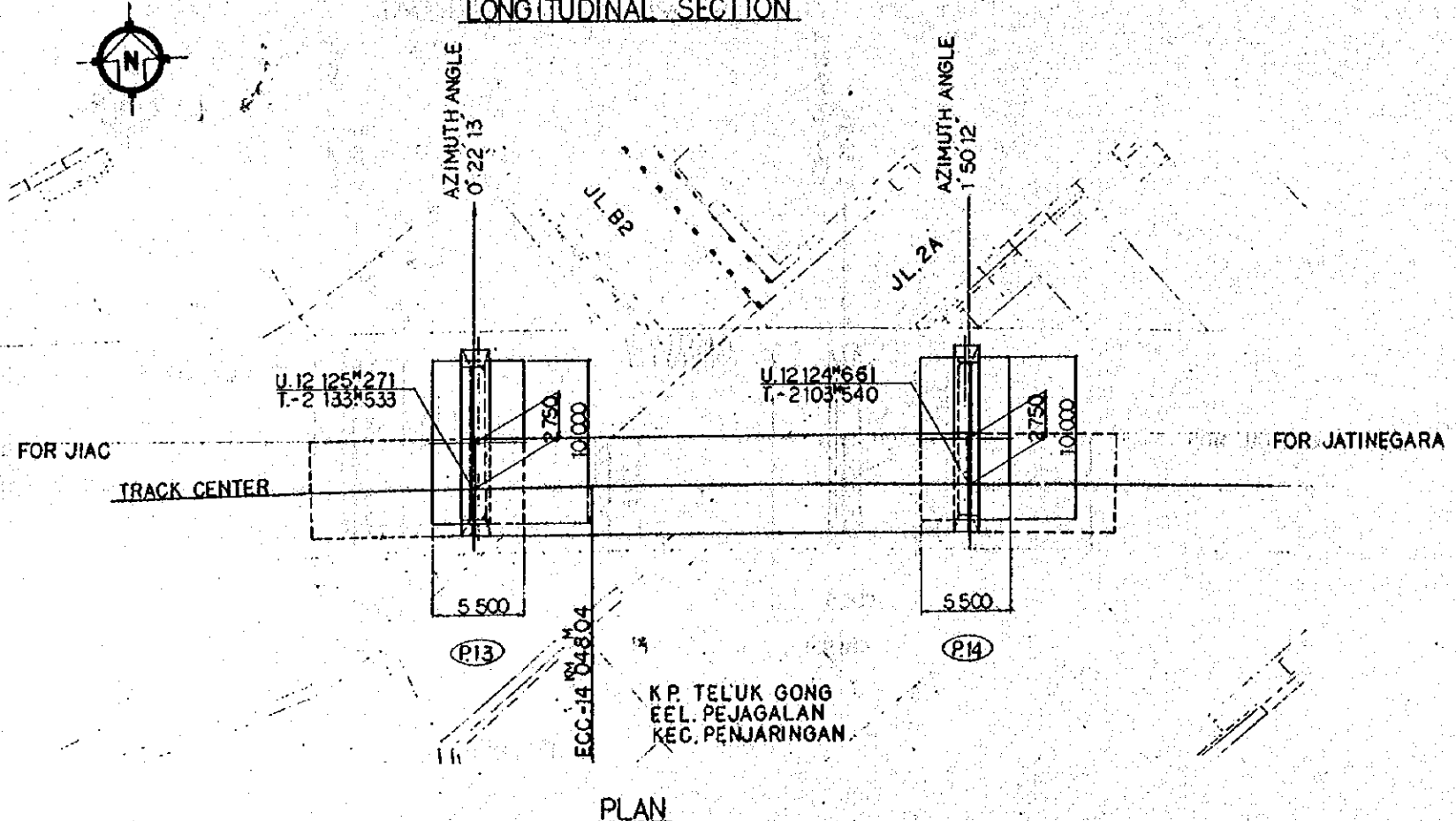


REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
B	1 AUG 94	MY	MY	KR	K.M	M.K
A	15 FEB 94	MY	MY	KR	K.M	M.K
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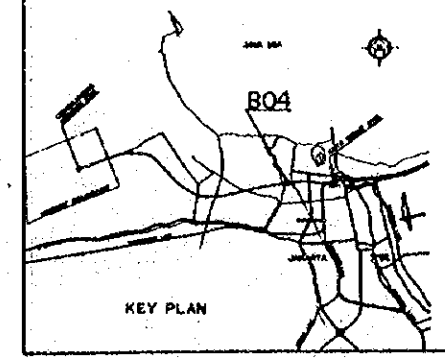


LONGITUDINAL SECTION

SECTION A

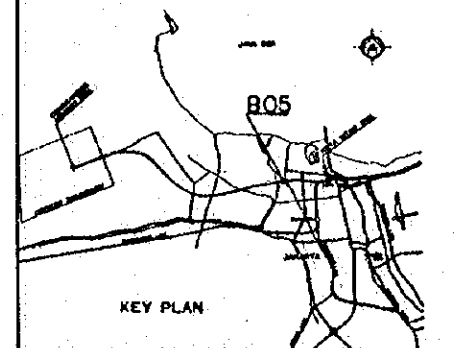
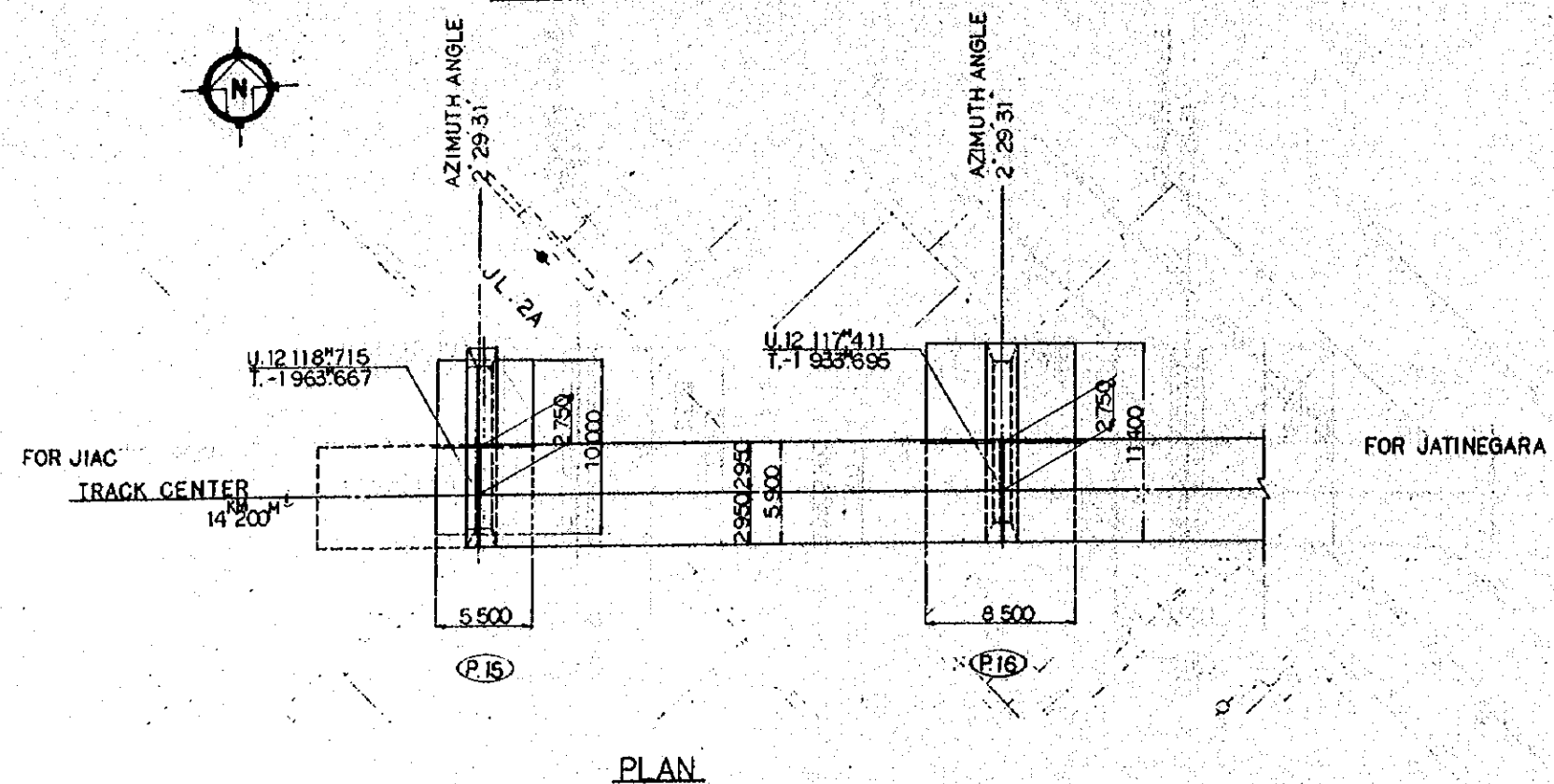
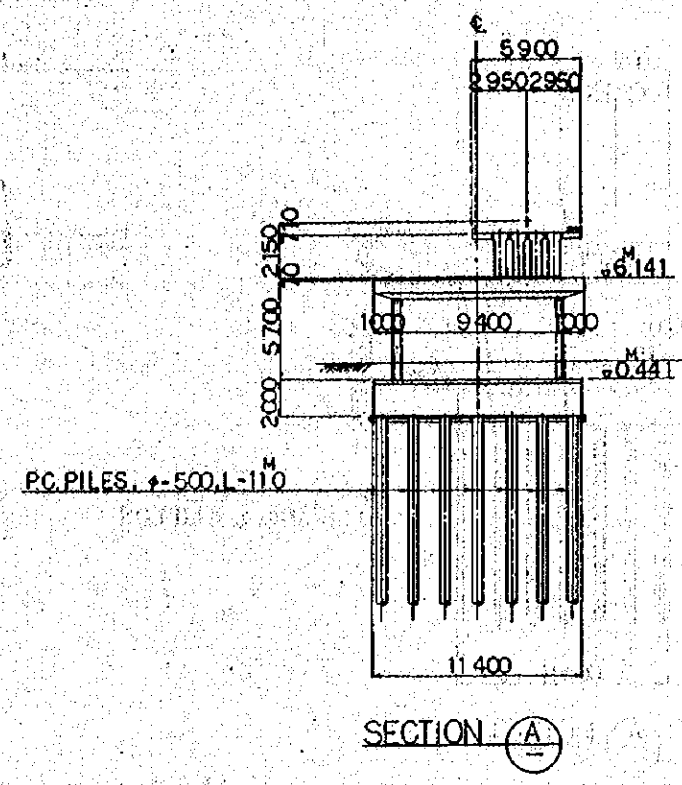
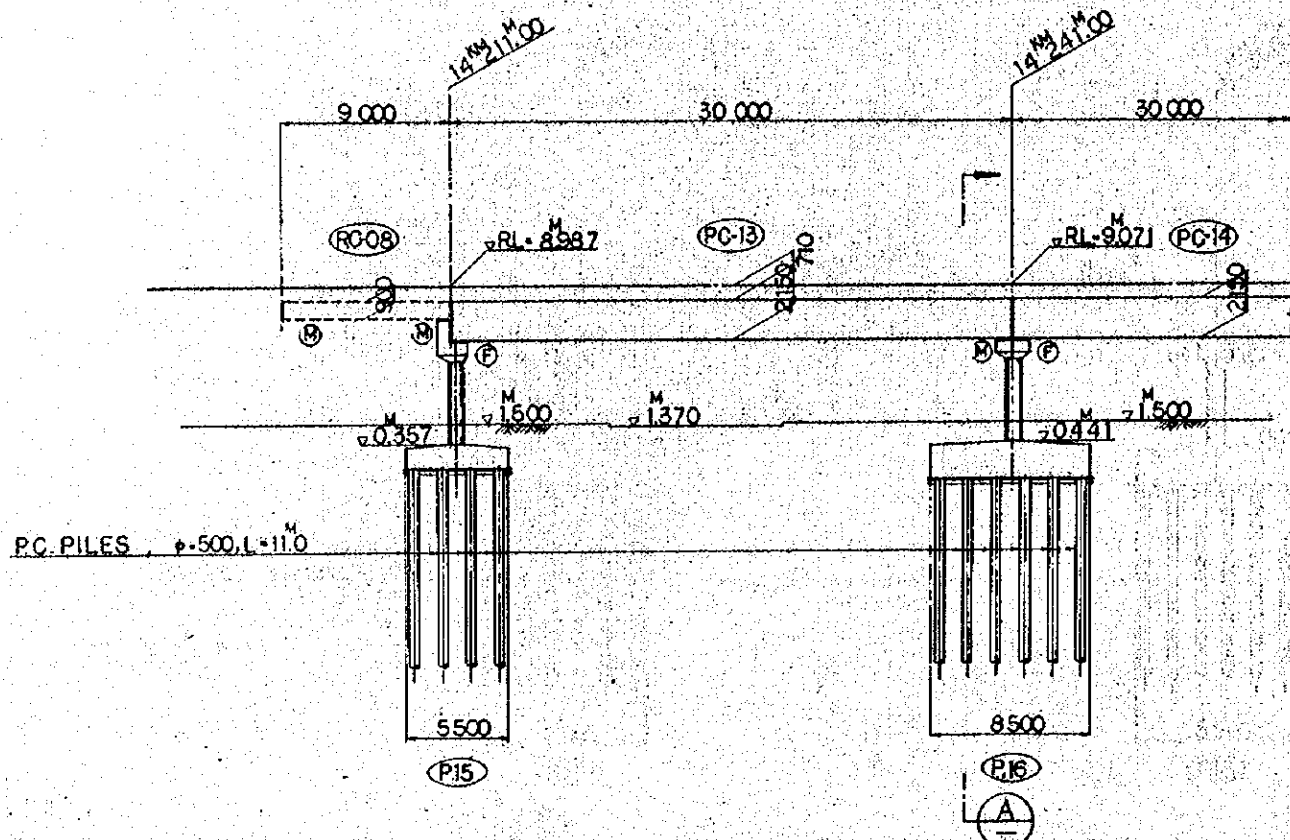


PLAN



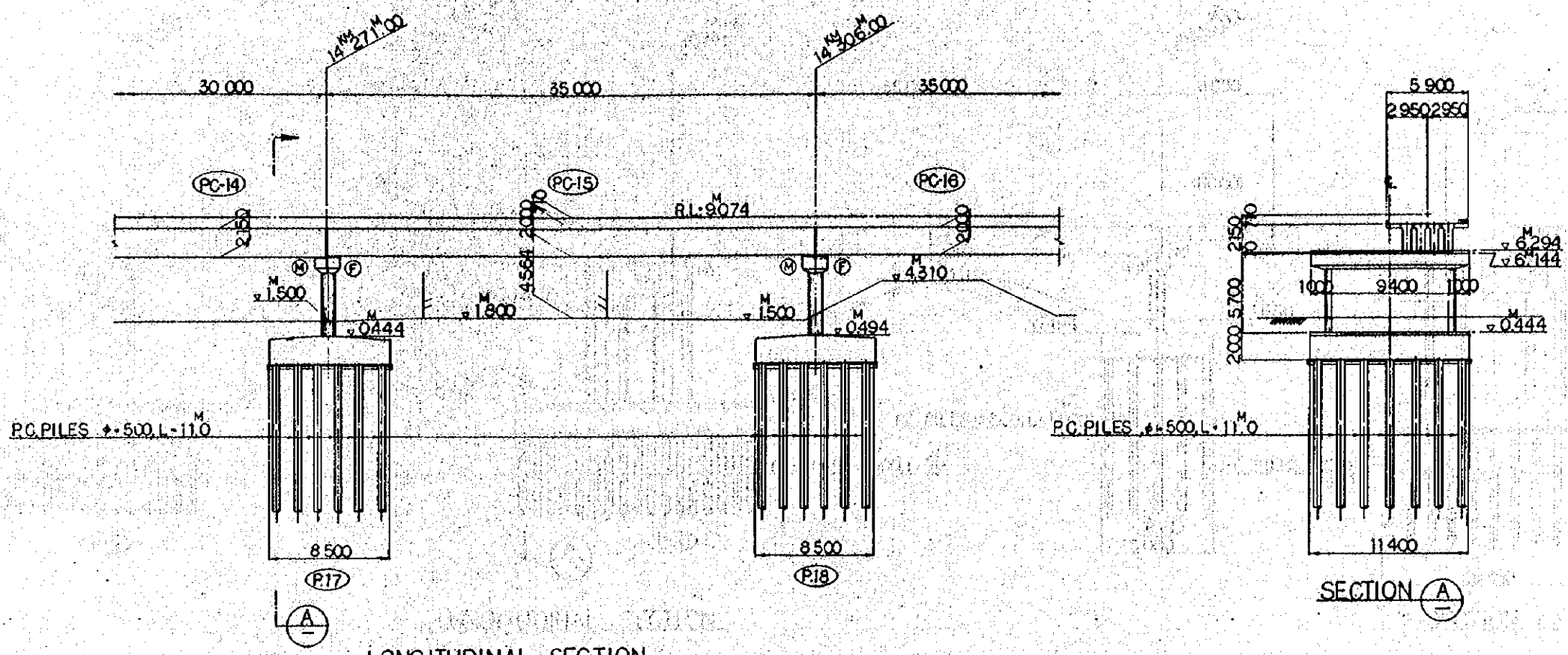
- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-190, CS-038, CS-100, CS-088, CS-089
  3. CODE:
    - ⊕---FIXED BEARING
    - ⊗---EXPANSION BEARING

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
REVISIONS	DATE	DRAWN	CHECKED	EXTENDED	SUBMITTED	
B	1 AUG 84	Y.Y	m.y	K.A	K.M	M.K
A	15 FEB 84	Y.Y	m.y	K.A	K.M	M.K
<b>BRIDGE B04</b> <b>GENERAL VIEW</b>						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-005				

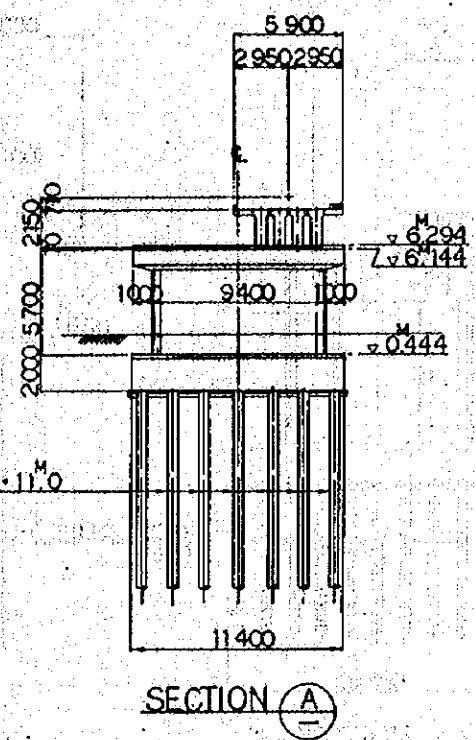


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-185, CS038, CS089, CS-090
  3. CODE:
    - ⊕---- FIXED BEARING
    - ⊗---- EXPANSION BEARING

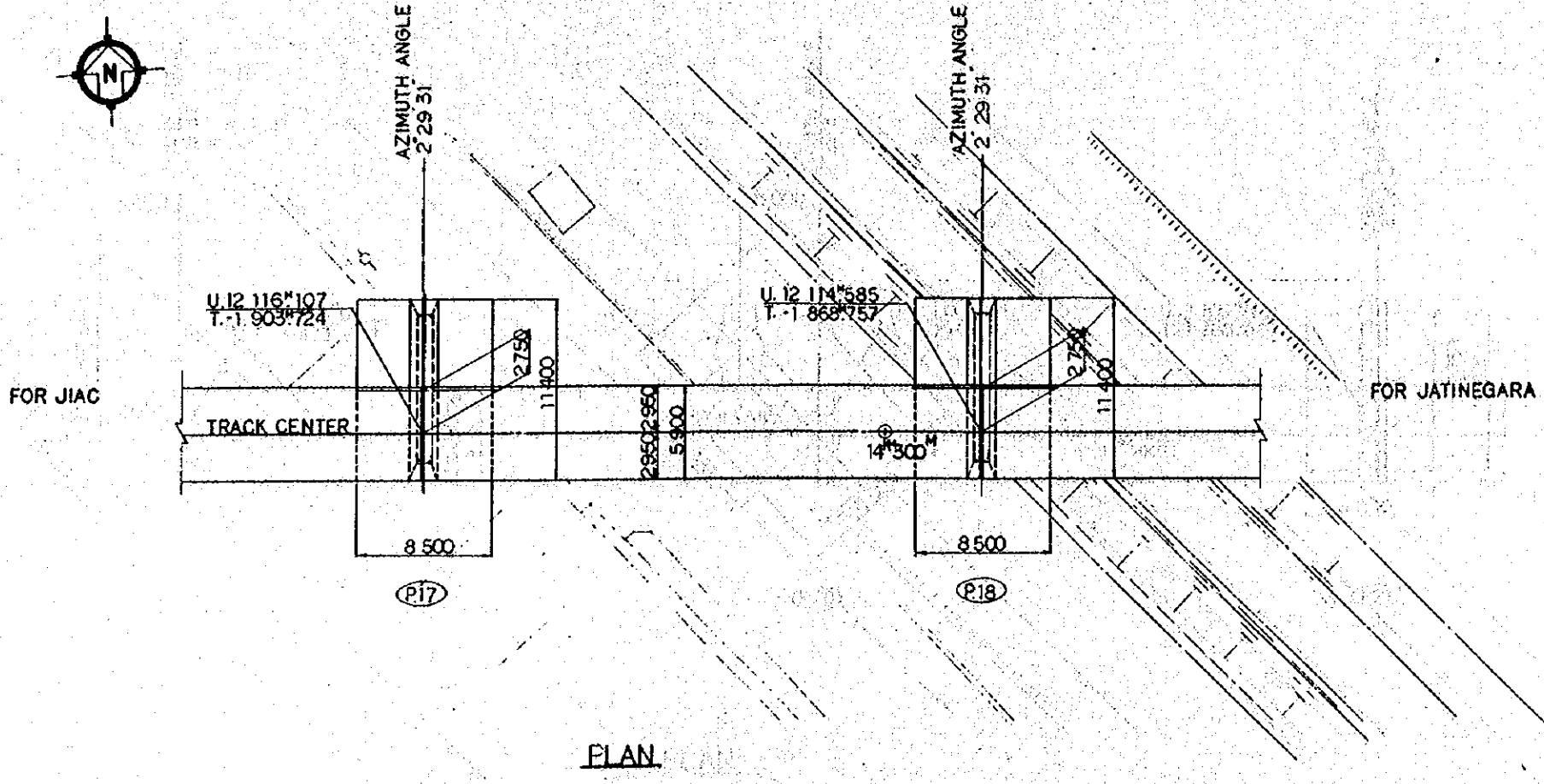
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG '84	M.Y.	M.Y.	K.A.	K.M.	M.M.
A	16 FEB '84	M.Y.	M.Y.	K.A.	K.M.	M.M.
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
BRIDGE B05 GENERAL VIEW (SHEET 1 OF 3)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE	DRAWING NO.					
1:200	CS-006					



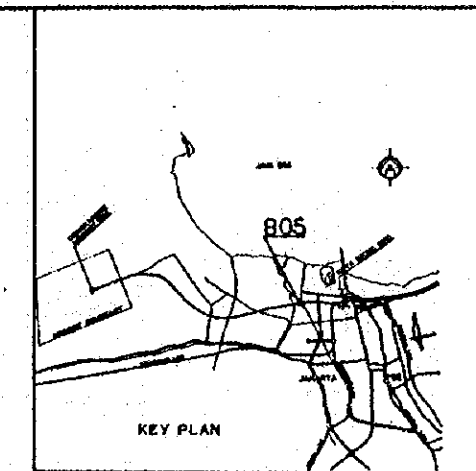
LONGITUDINAL SECTION



SECTION A

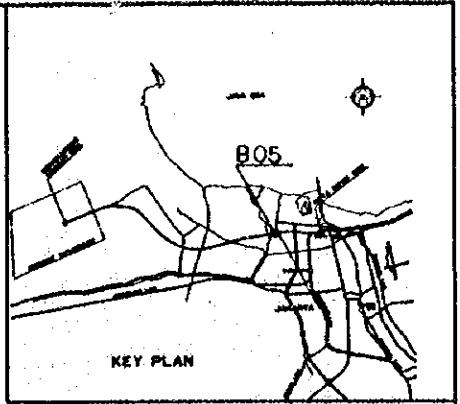
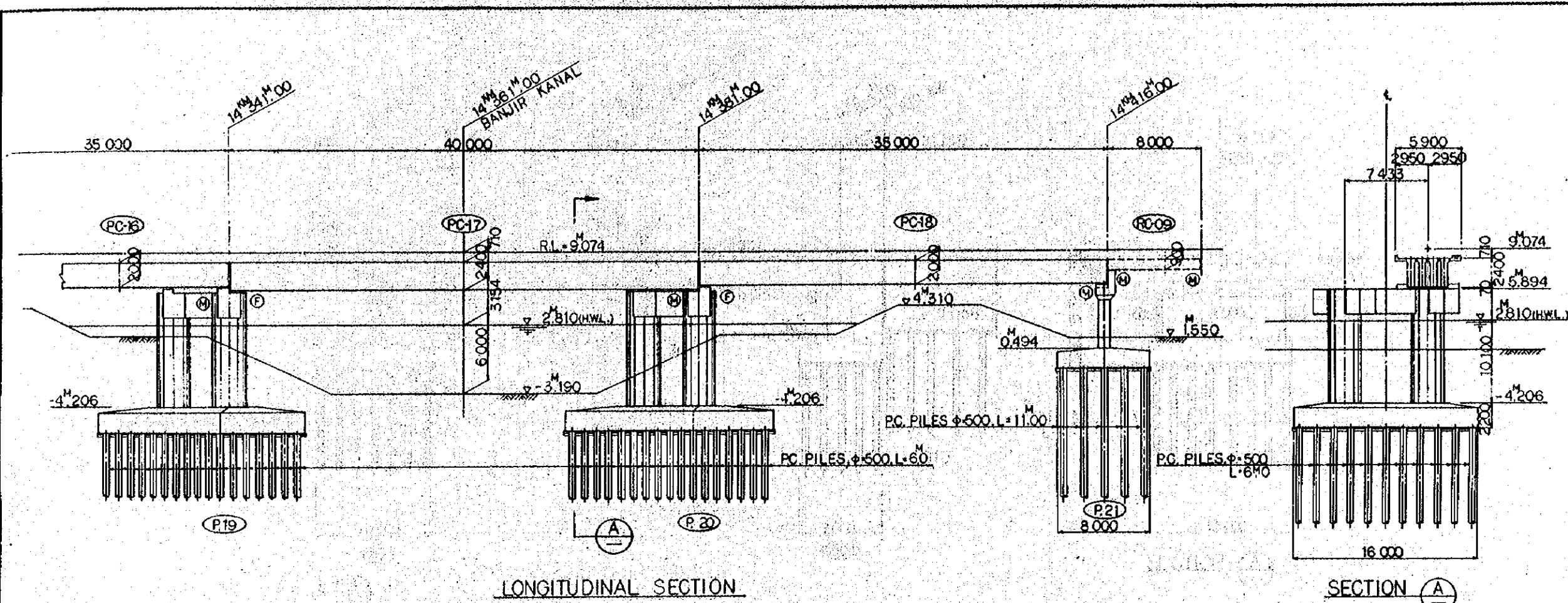


PLAN

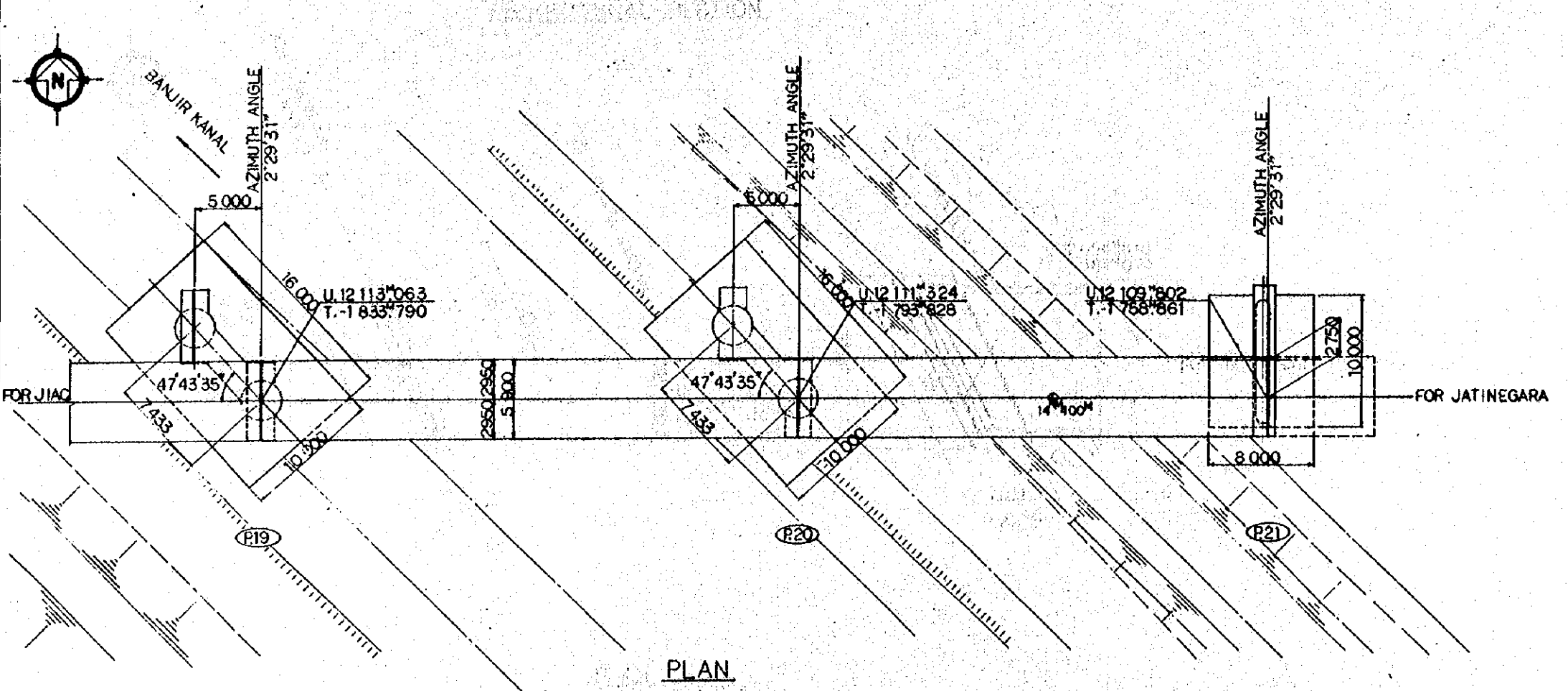


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS038.CS039.CS091. CS092
  3. CODE:  
 (F) --- FIXED BEARING  
 (E) --- EXPANSION BEARING

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
B	1 AUG '84	M.Y.	M.Y.	K.A.	K.M.	M.K.
A	15 FEB '84	M.Y.	M.Y.	K.A.	K.M.	M.K.
BRIDGE B05 GENERAL VIEW (SHEET 2 OF 3)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-007				

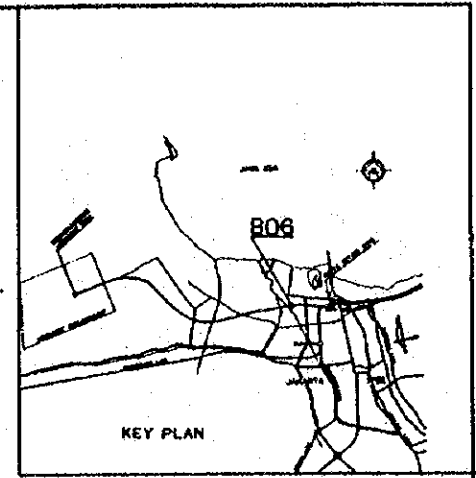


- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - REFERENCE DRAWING FOR GENERAL VIEW: CS-039, CS-043, CS-185, CS-093, CS-094, CS-096
  - CODE:
    - ⊕----FIXED BEARING
    - ⊗----EXPANSION BEARING

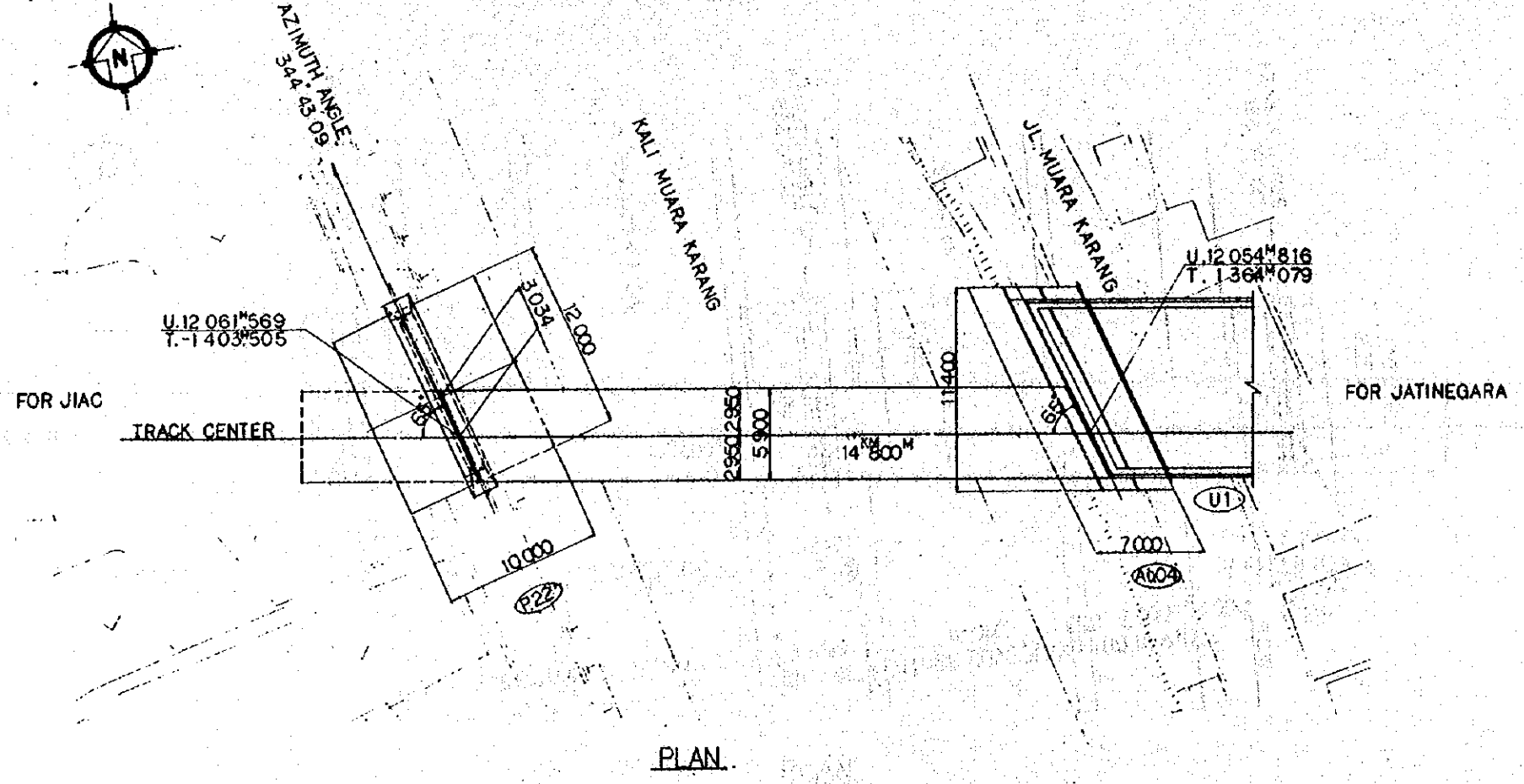
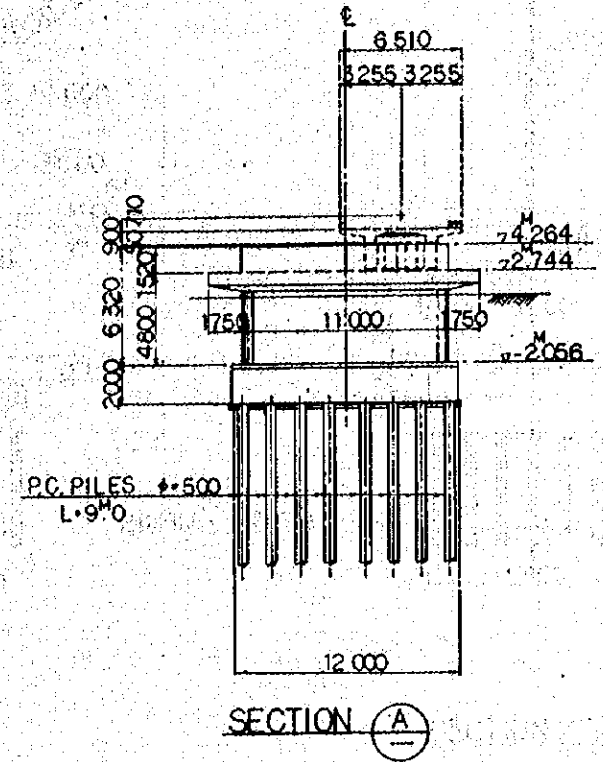
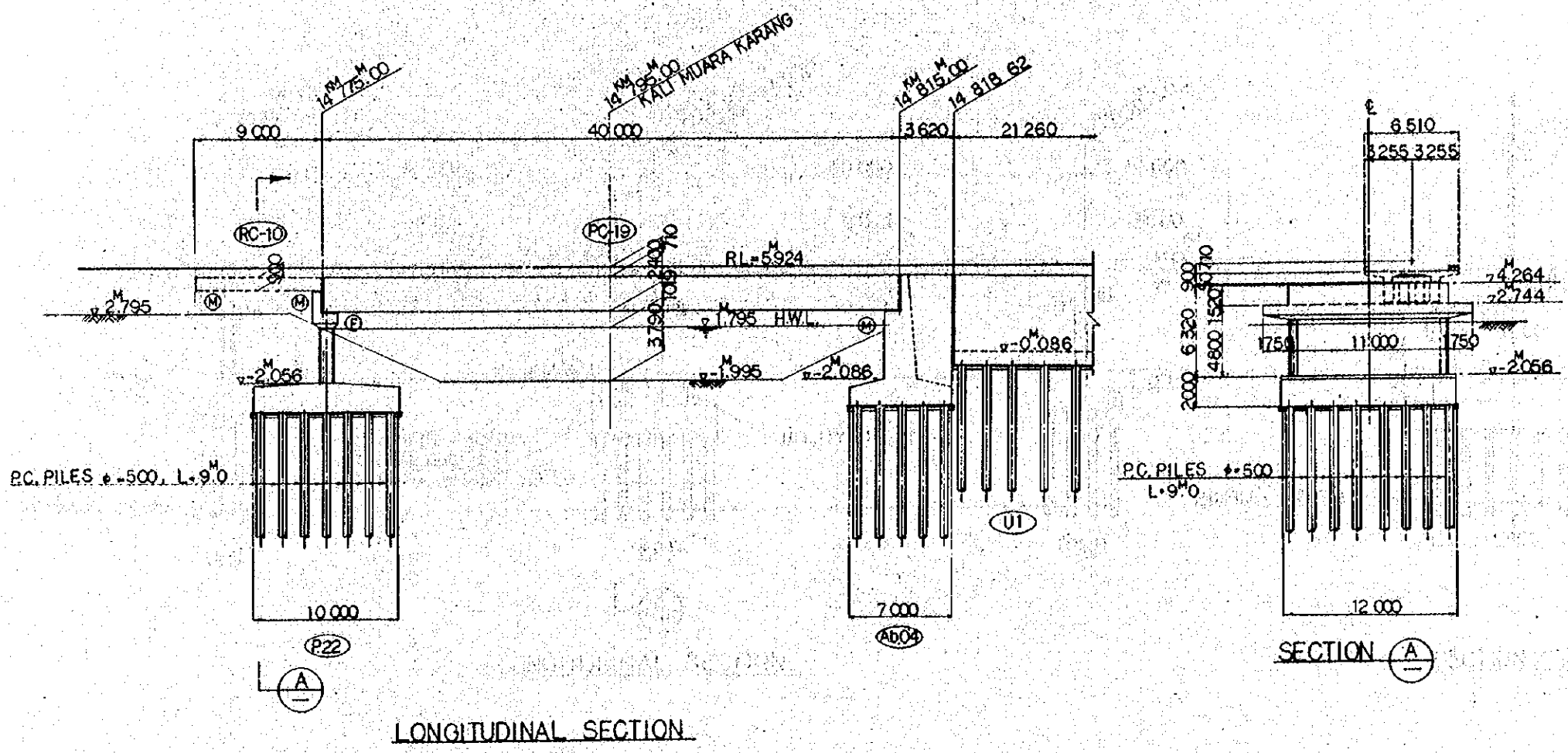


REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
A	1 AUG. 84	DESIGNED	CHECKED	REVIEWED	SUBMITTED
REVISIONS	DATE	DESIGNED	CHECKED	REVIEWED	SUBMITTED
<b>BRIDGE 805</b> <b>GENERAL VIEW</b> <b>(SHEET 3 OF 3)</b>					
PACKAGE: 1 CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-008			

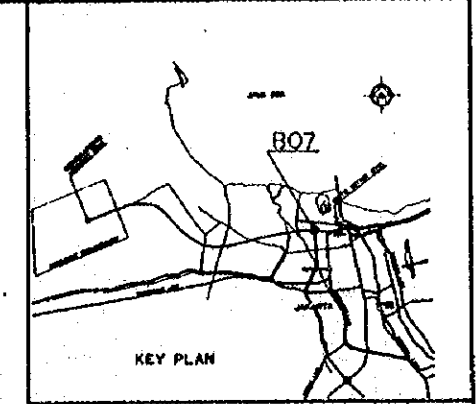
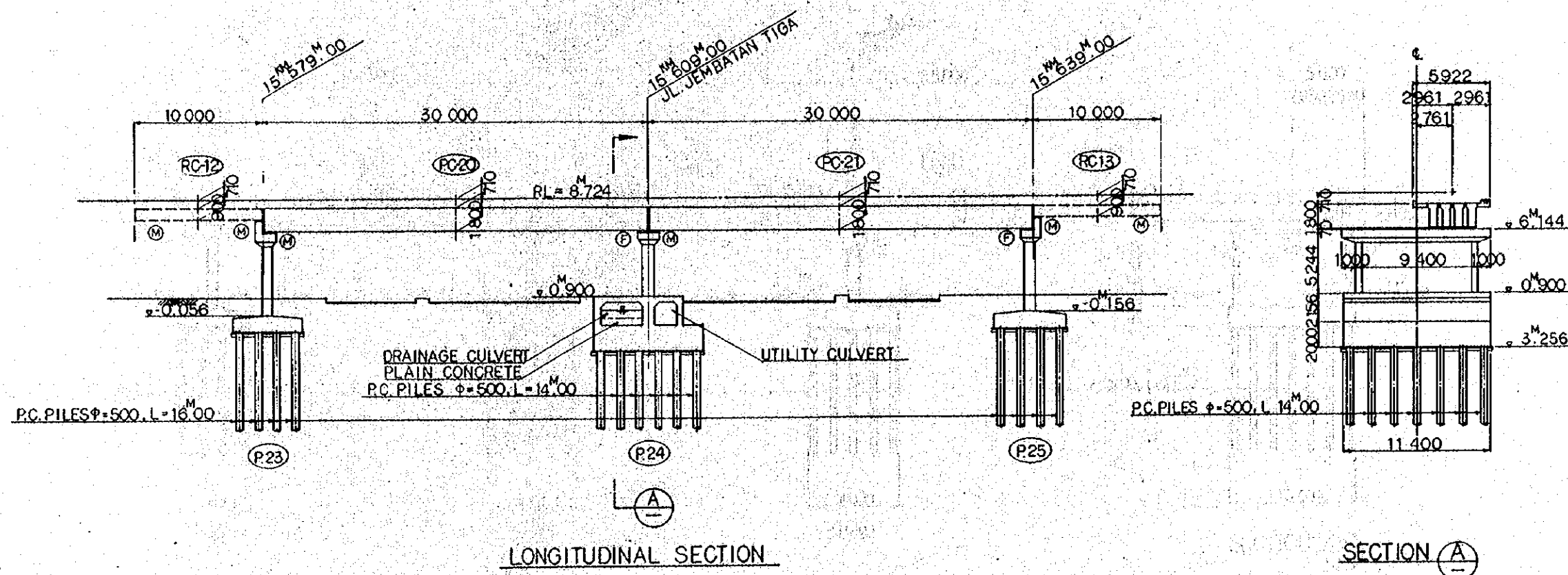




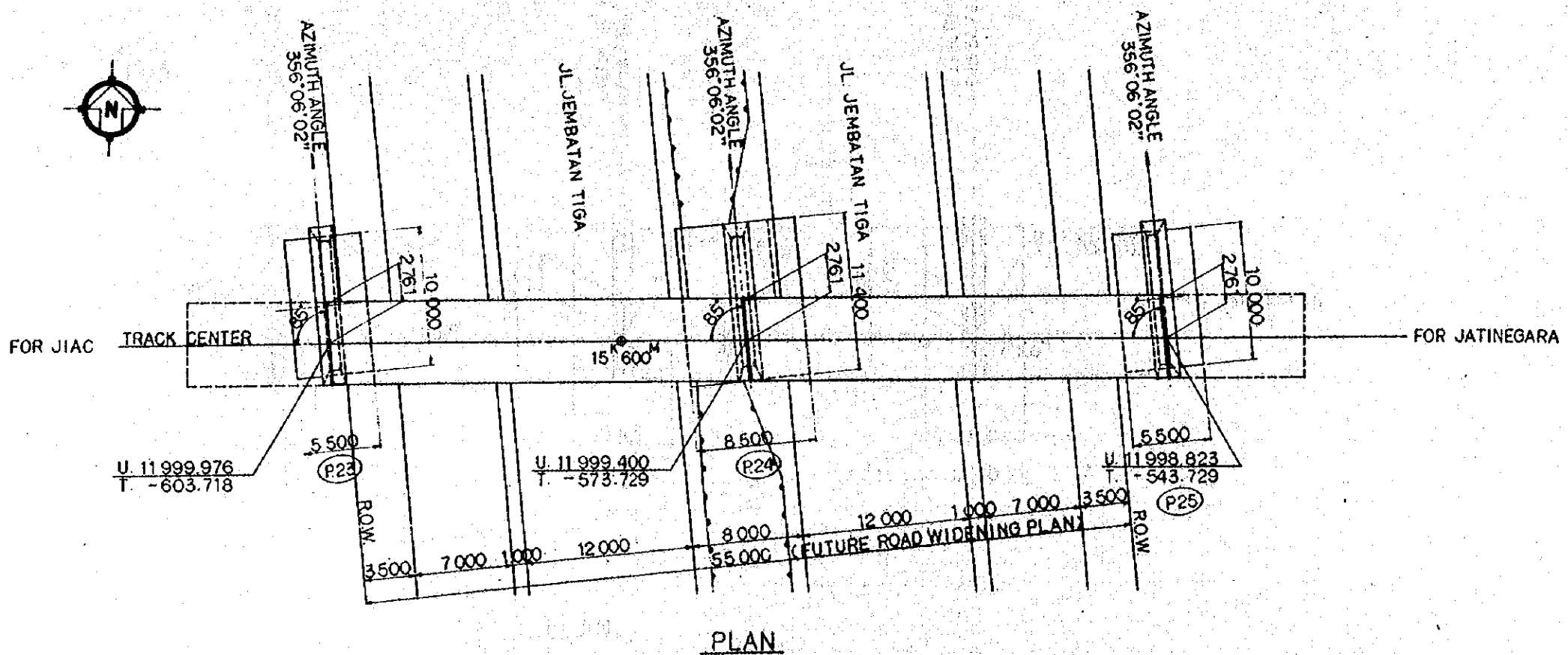
- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-185, CS-025, CS-097, CS-137, CS-145.
  3. CODE :
    - ⊙ --- FIXED BEARING
    - ⊕ --- EXPANSION BEARING



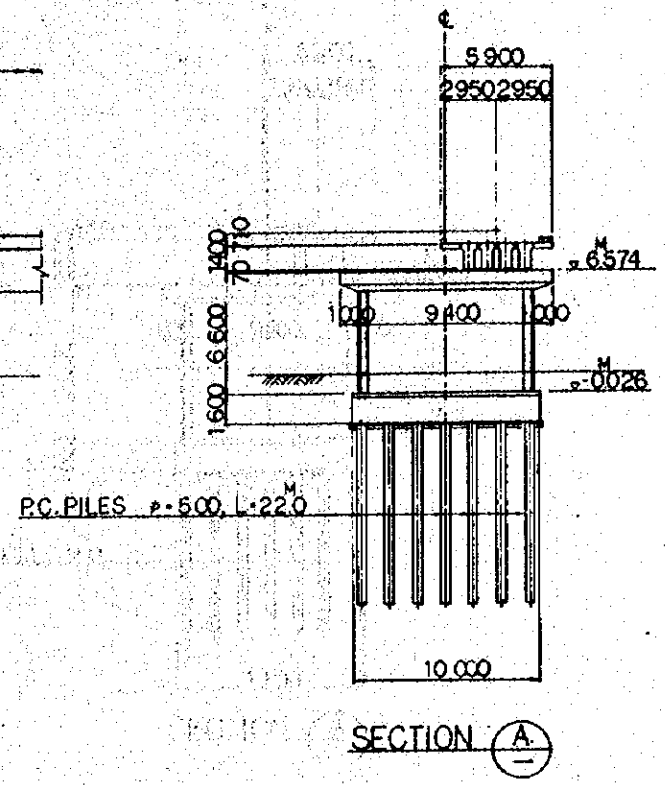
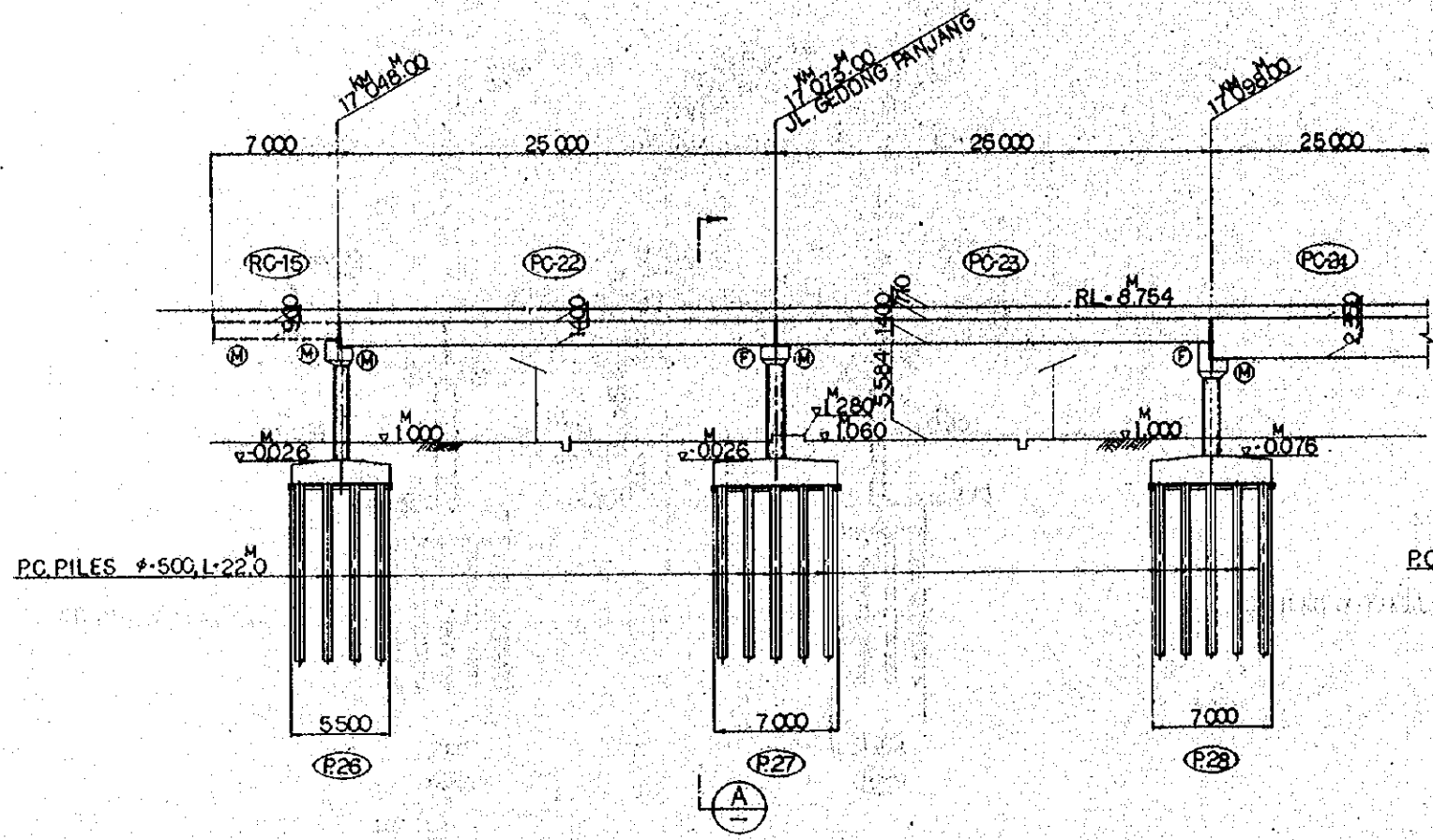
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG. 84	M.Y.	M.Y.	K.A.	K.M.	M.K.
A	15 FEB. 84	M.Y.	M.Y.	K.A.	K.M.	M.K.
REVISIONS	DATE	DESIGNED	CHECKED	APPROVED	REVISED	SUBMITTED
BRIDGE B06 GENERAL VIEW						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-009				



- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED.
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-185, CS-034, CS-98, CS-099.
  3. DESIGN OF DRAINAGE/UTILITY CULVERT AS SHOWN ARE SUBJECT TO MODIFICATION IN CONNECTION WITH ROAD WIDENING PLAN.
  4. CODE :  
 (F)----- FIXED BEARING  
 (M)----- EXPANSION BEARING

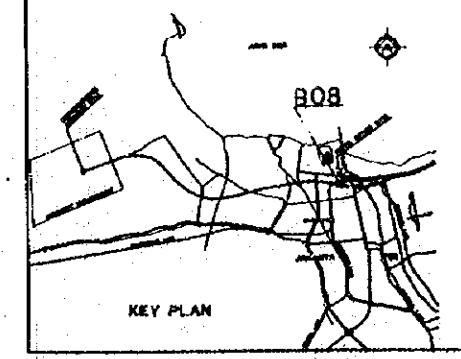


REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
A	1AUG'84	ny	m.y	KA	UM	rk
<b>BRIDGE B07</b> <b>GENERAL VIEW</b>						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-010				

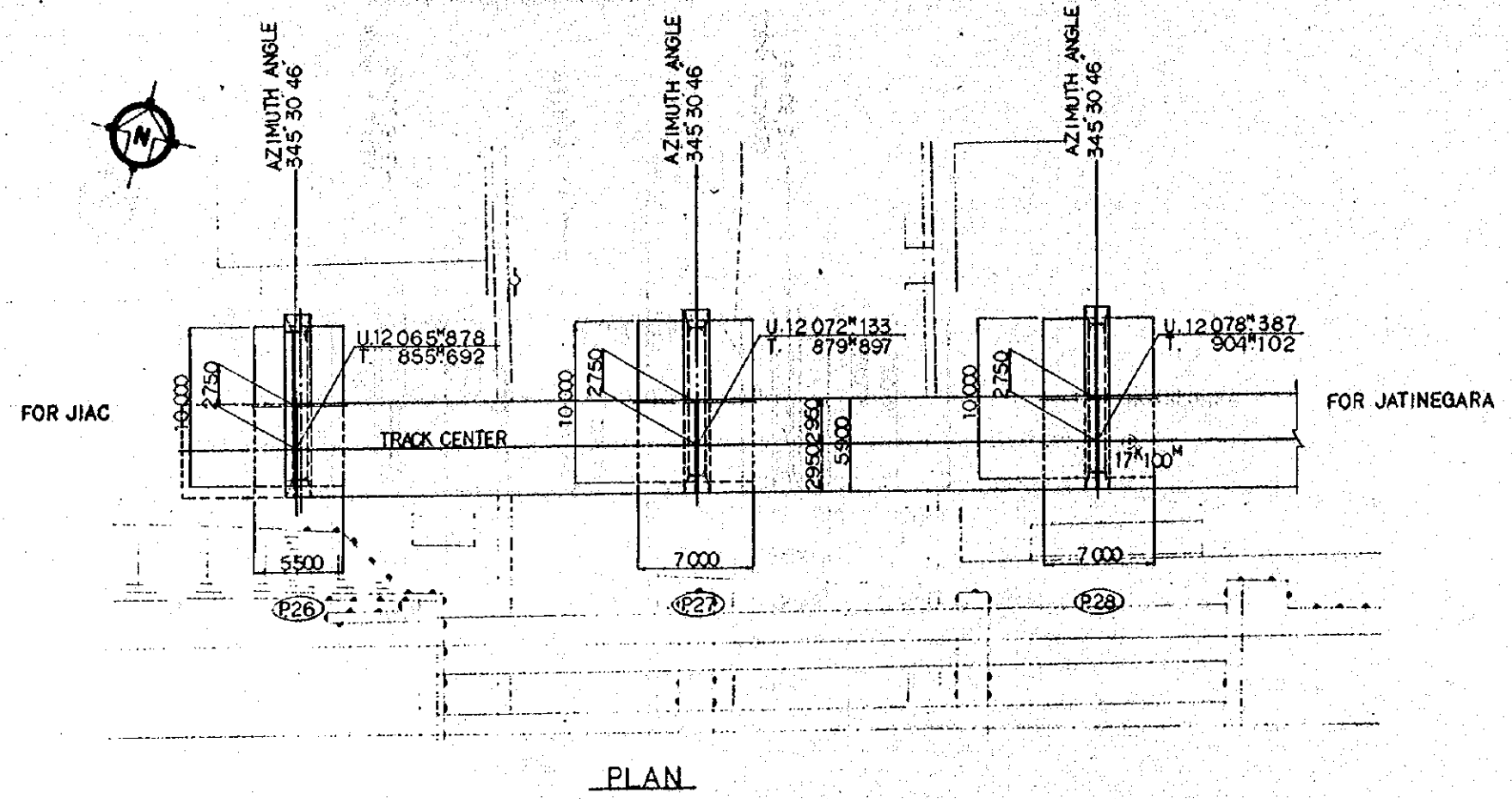


LONGITUDINAL SECTION

SECTION (A)

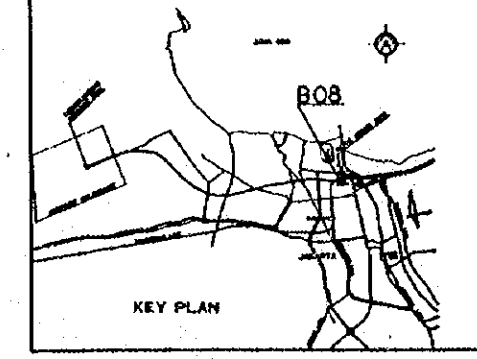
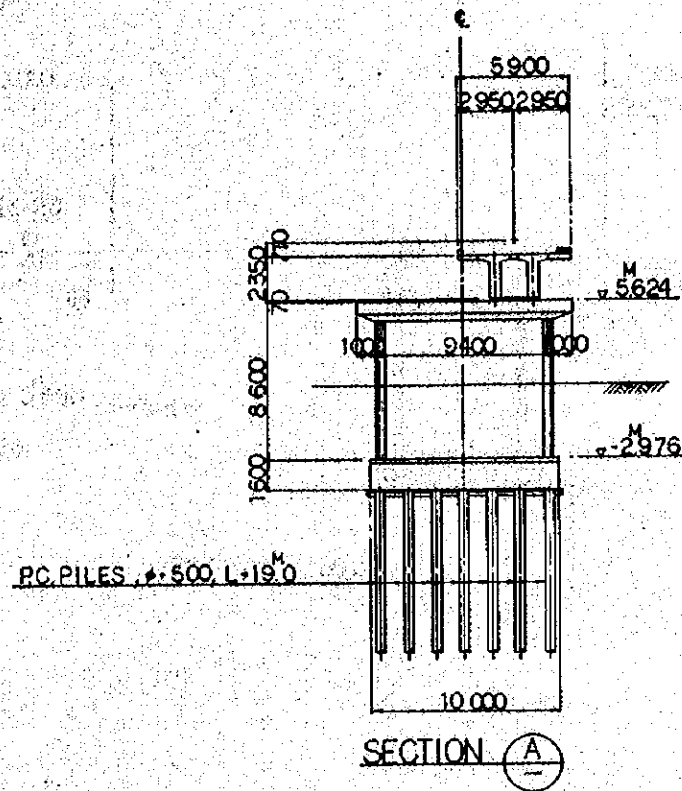
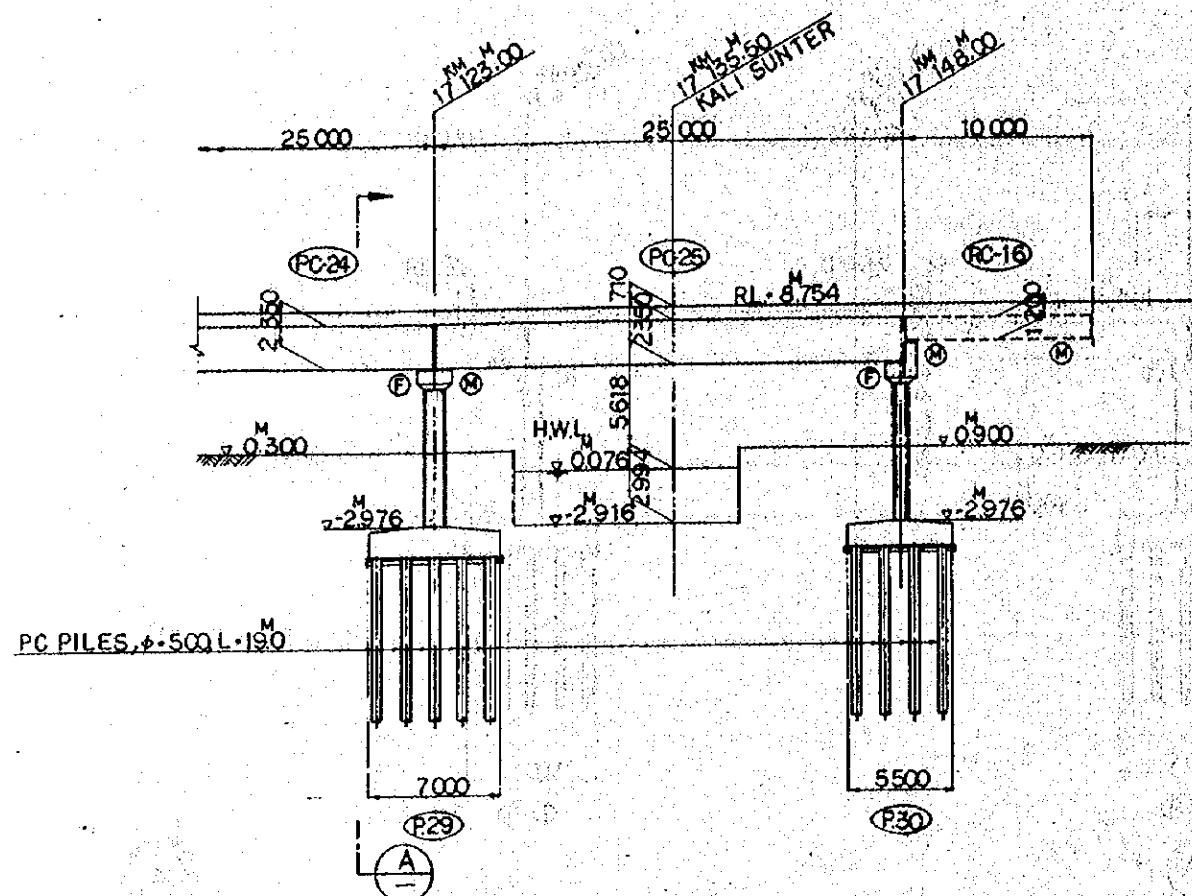


- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - REFERENCE DRAWING FOR GENERAL VIEW: CS185, CS029, CS044, CS102, CS103.
  - CODE:
    - ⊕---- FIXED BEARING
    - ⊙---- EXPANSION BEARING



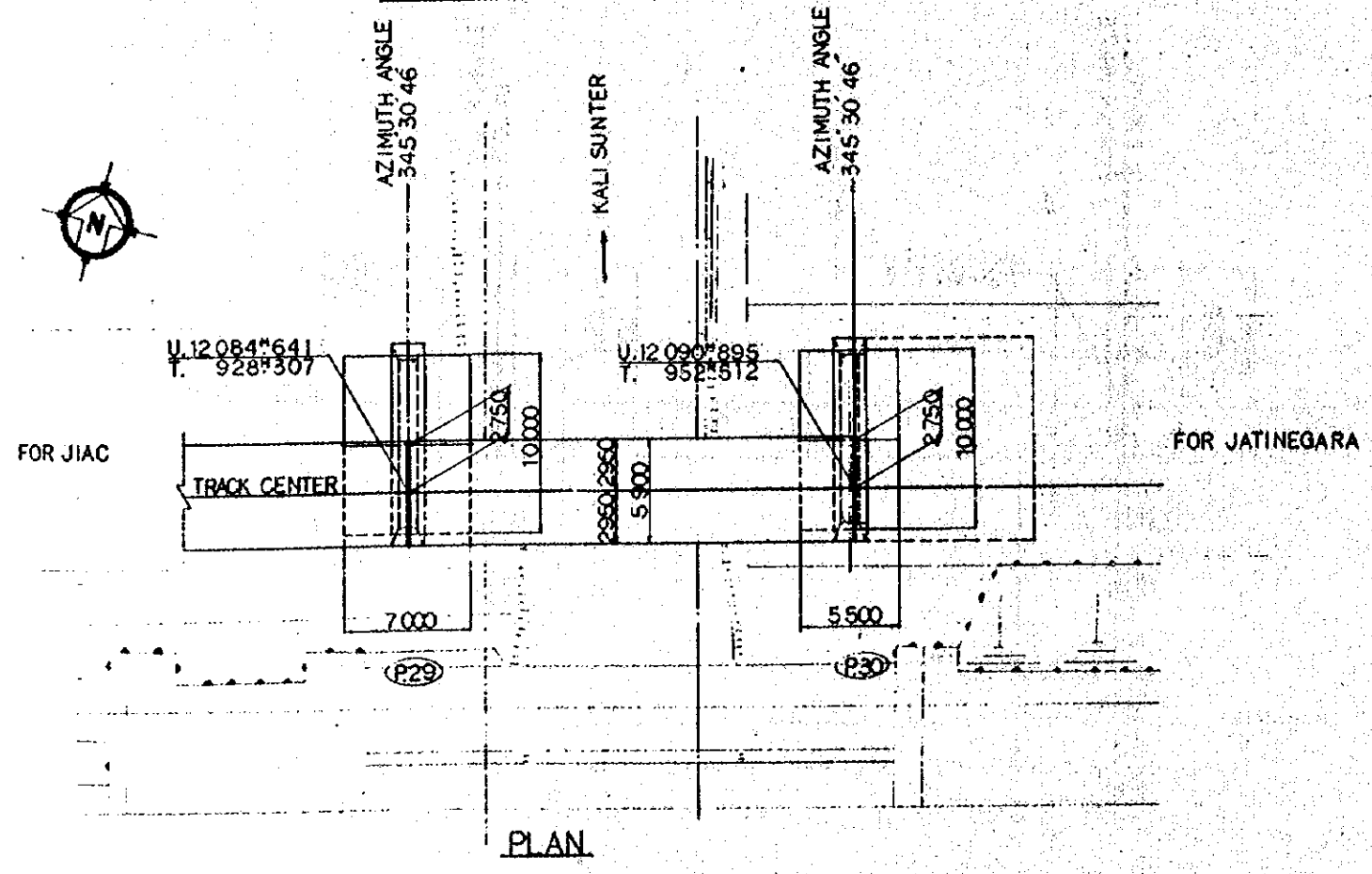
PLAN

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG. '84	REV.	REV.	REV.	REV.	REV.
A	15 FEB. '84	REV.	REV.	REV.	REV.	REV.
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
BRIDGE B08 GENERAL VIEW (SHEET 1 OF 2)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-011				



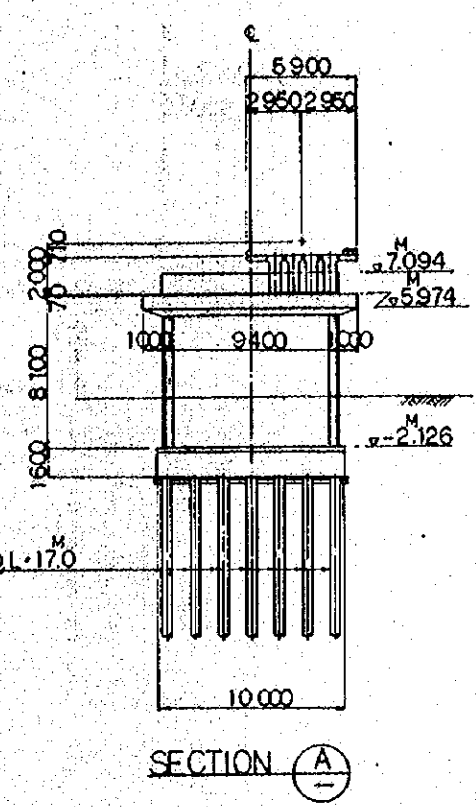
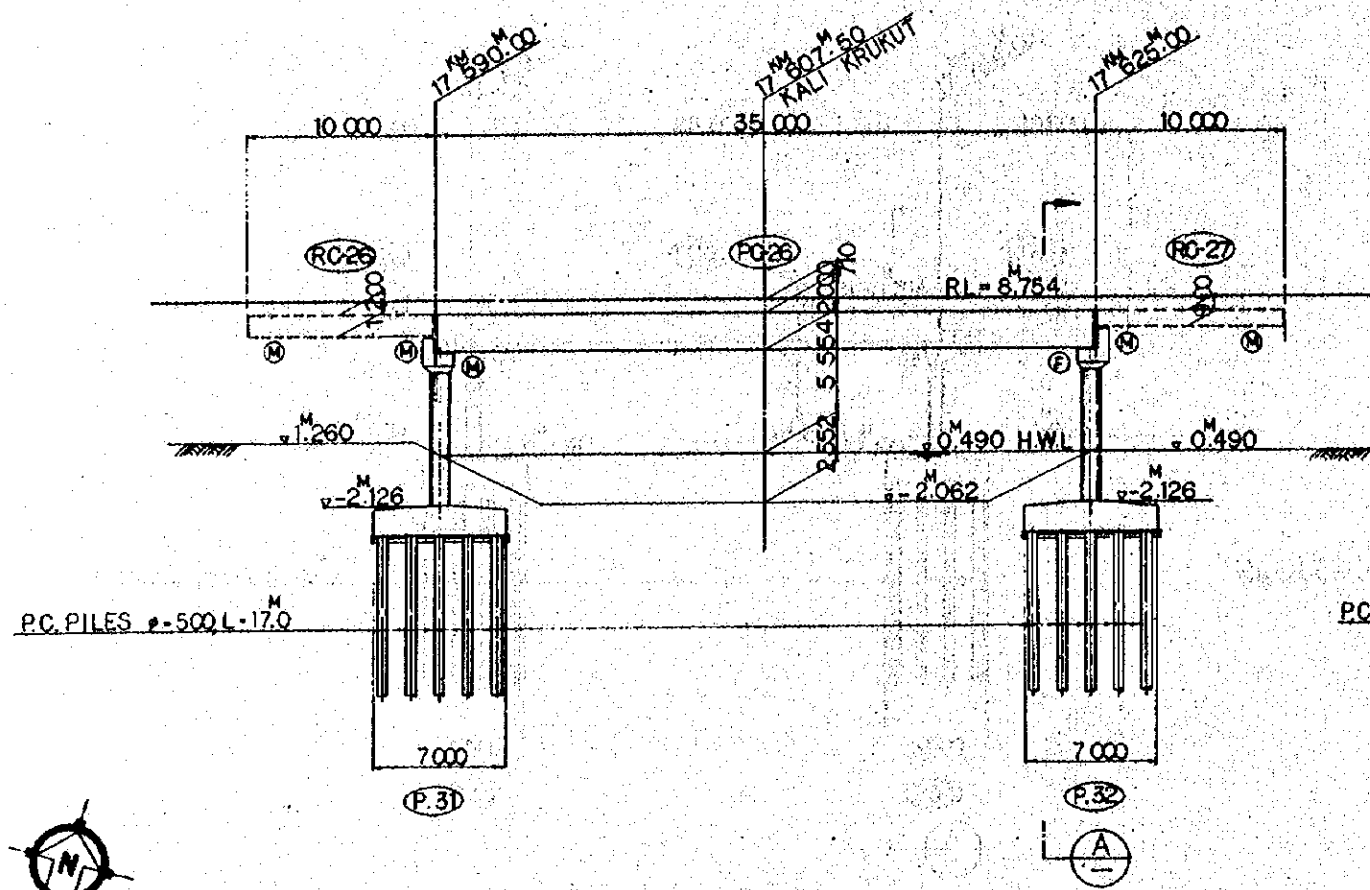
- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS044, CS215, CS103, CS106.
  3. CODE:
    - ⊕---FIXED BEARING
    - ⊗---EXPANSION BEARING

LONGITUDINAL SECTION

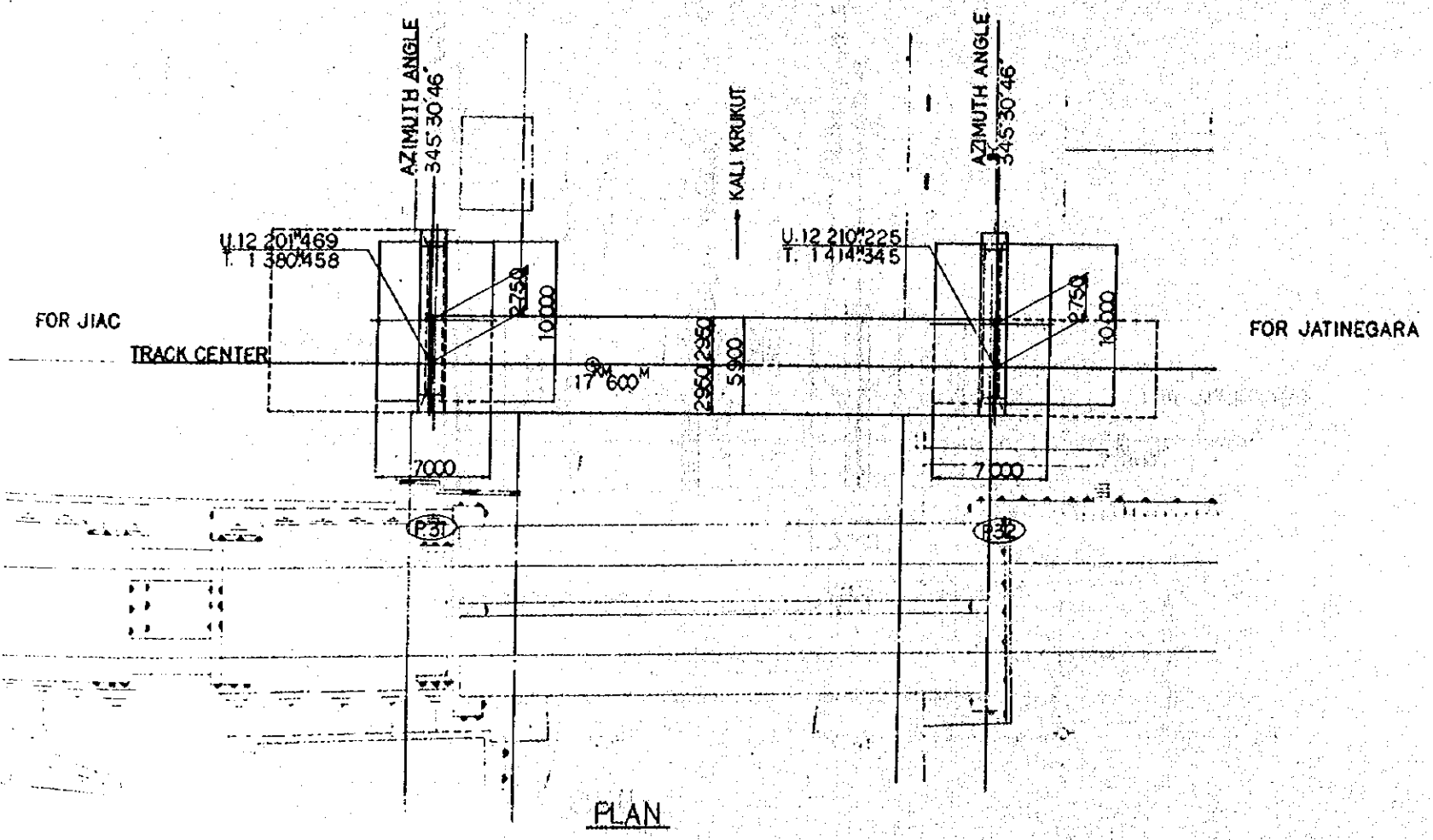


PLAN

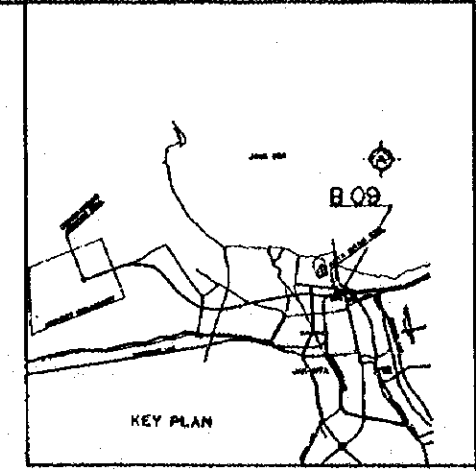
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
B	1 AUG. 84	MY	m.y	K.A.	K.V. m.K.
A	15 FEB. 84	MY	m.y	K.A.	K.V. m.K.
REVISION	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED
BRIDGE B08 GENERAL VIEW (SHEET 2 OF 2)					
PACKAGE: I CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-012			



LONGITUDINAL SECTION

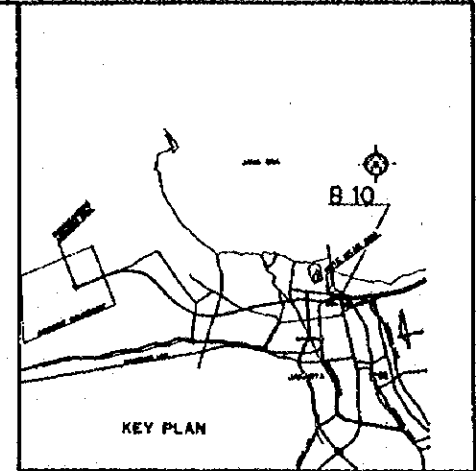


PLAN

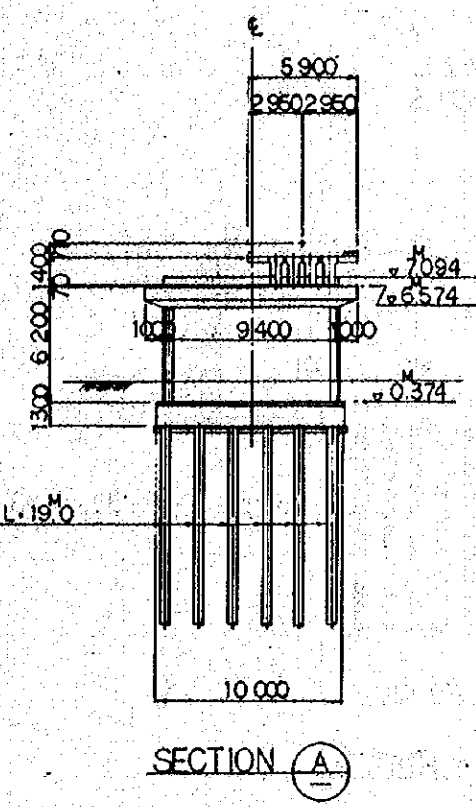
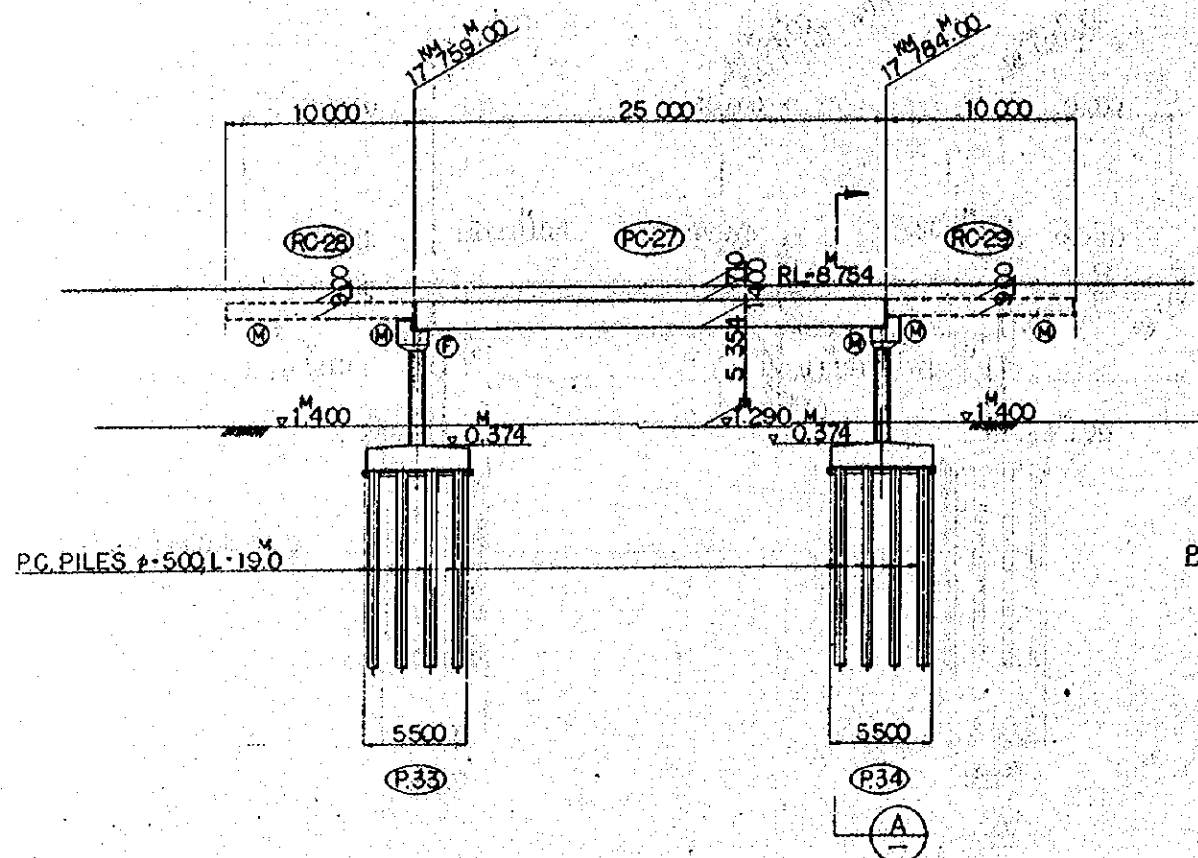


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS185, CS039, CS029, CS-110
  3. CODE:
    - ⊕---- FIXED BEARING
    - ⊙---- EXPANSION BEARING

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG 84	NY	MY	KA	KM	MK
A	15 FEB 84	NY	MY	KA	KM	MK
REVISION	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
<b>BRIDGE B09</b> <b>GENERAL VIEW</b>						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-013				

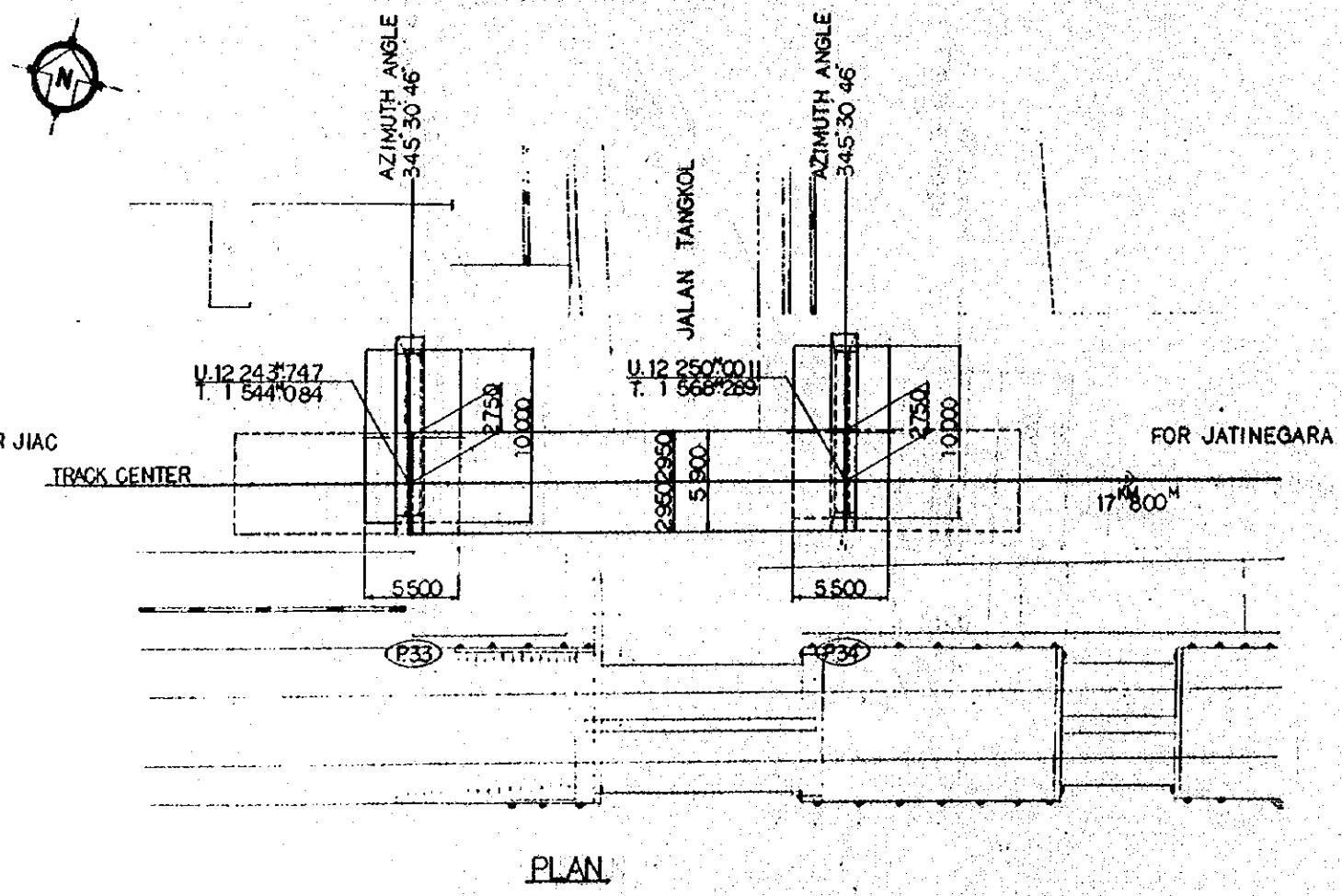


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-185, CS029, CS106
  3. CODE:
    - ⊕---FIXED BEARING
    - ⊙---EXPANSION BEARING



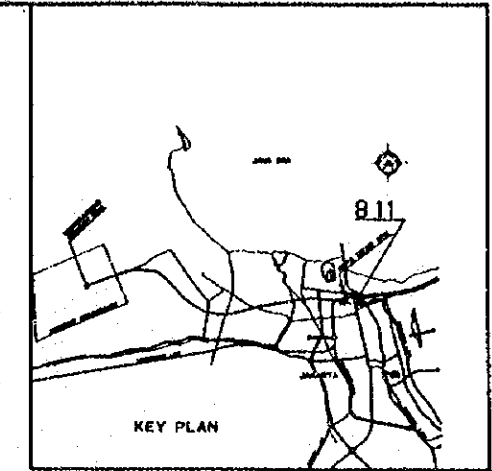
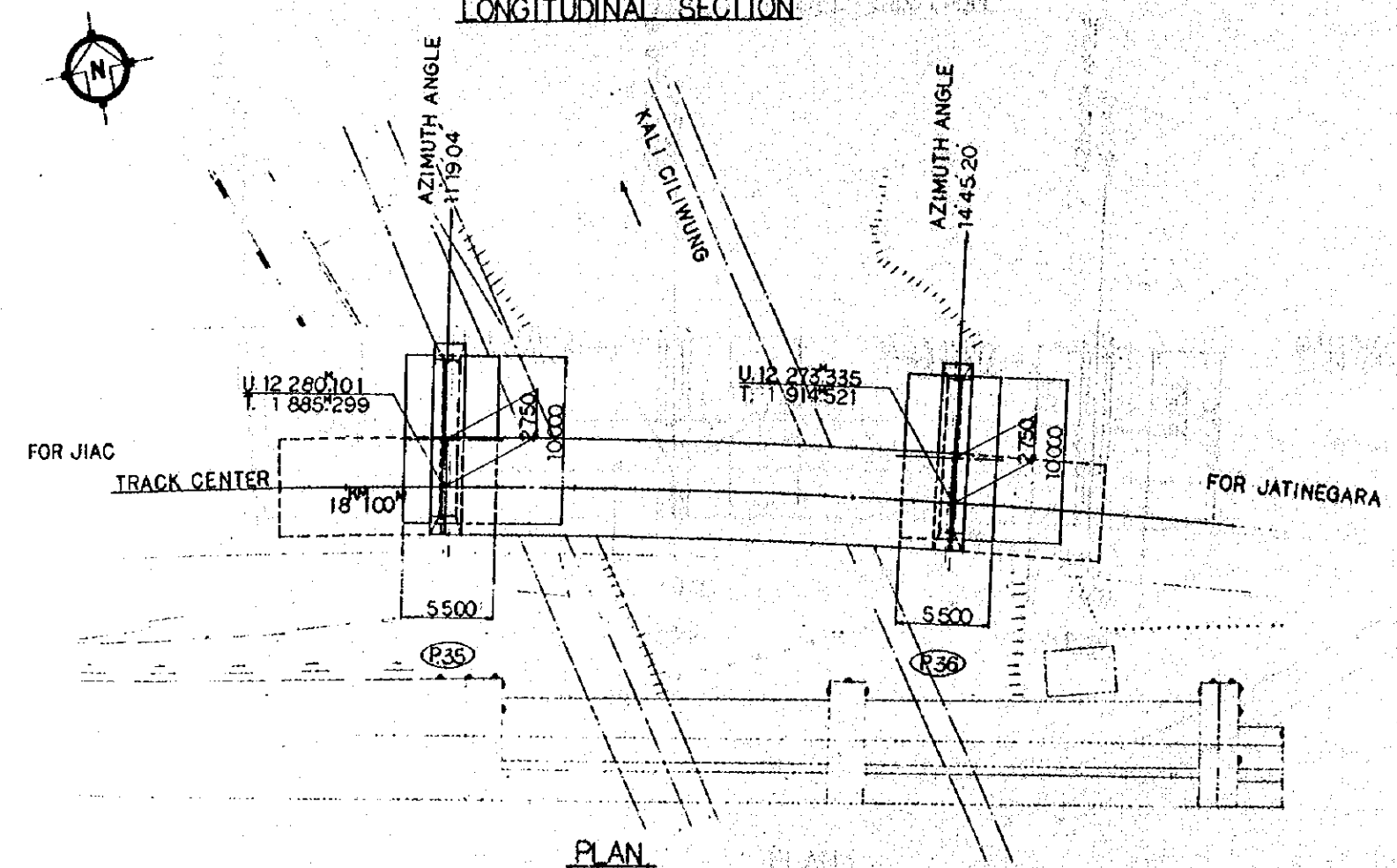
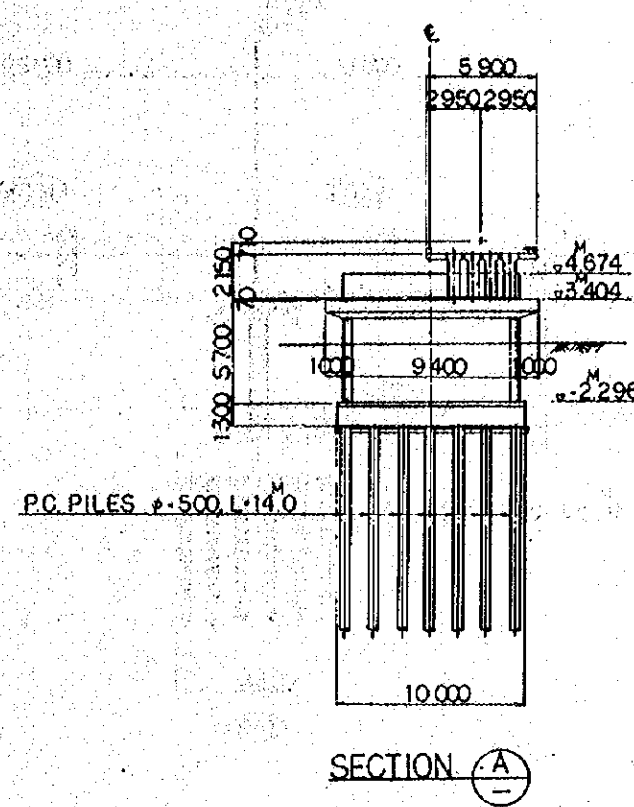
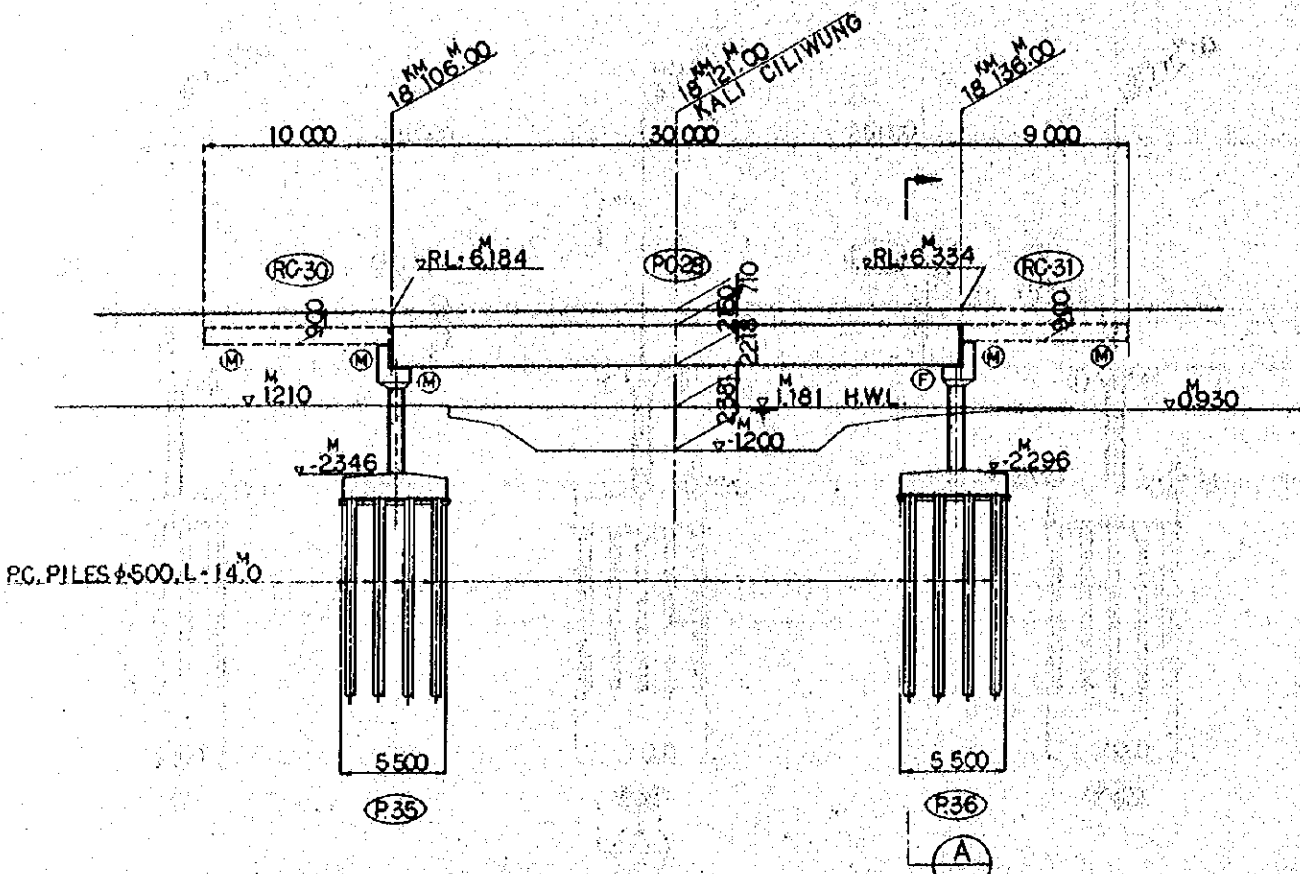
LONGITUDINAL SECTION

SECTION A



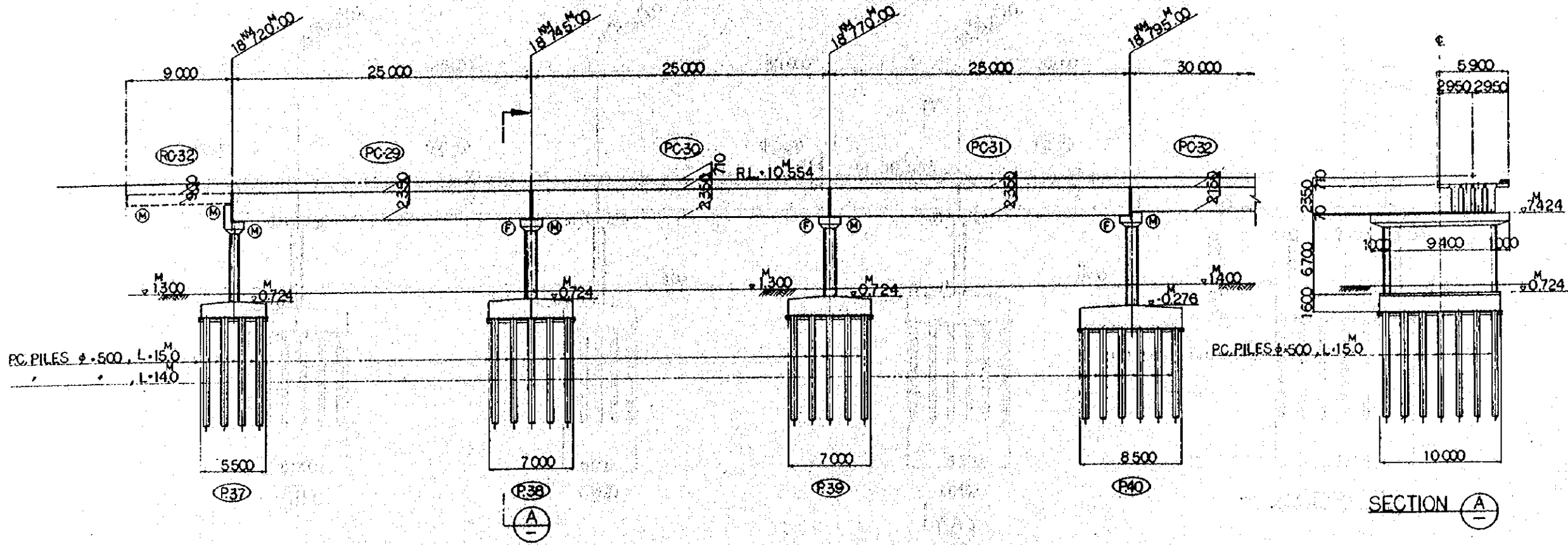
PLAN

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR GENGKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
B	1 AUG '84	RY	m.y.	K.A.	K.M.
A	15 FEB '84	RY	m.y.	K.A.	K.M.
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
BRIDGE B10 GENERAL VIEW					
PACKAGE: I CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-014			

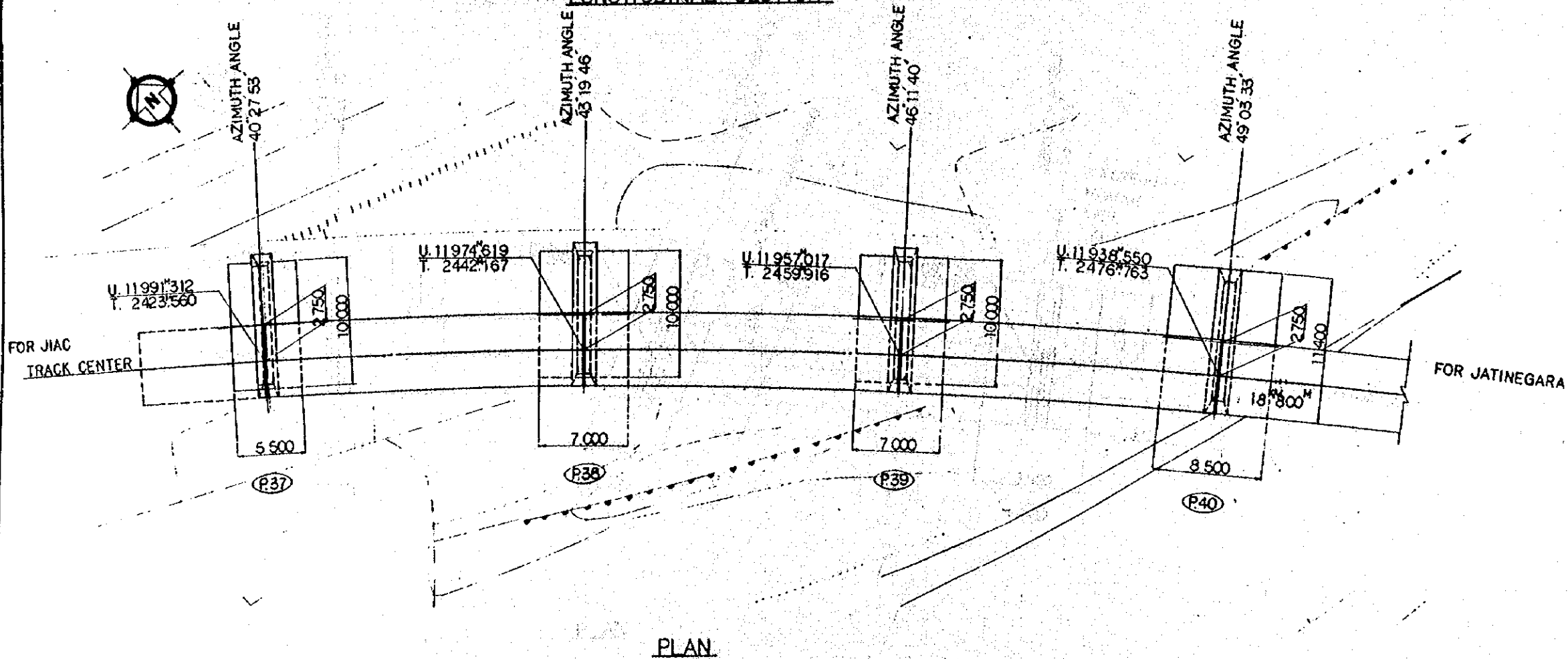


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-190, CS-045, CS-088, CS-089
  3. CODE:
    - ⊕ --- FIXED BEARING
    - ⊗ --- EXPANSION BEARING

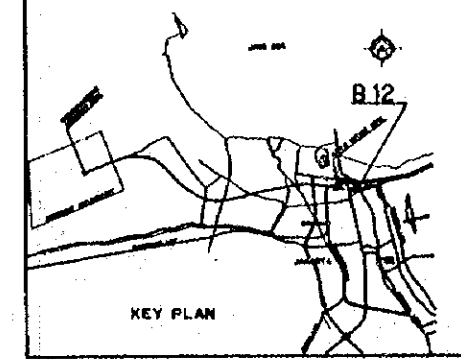
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR CEMKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
B	1 AUG. 84	M.Y.	M.Y.	K.A.	K.M. M.K.
A	15 FEB. 84	M.Y.	M.Y.	K.A.	K.M. M.K.
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED
<b>BRIDGE B11</b> <b>GENERAL VIEW</b>					
PACKAGE: I CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-015			



LONGITUDINAL SECTION



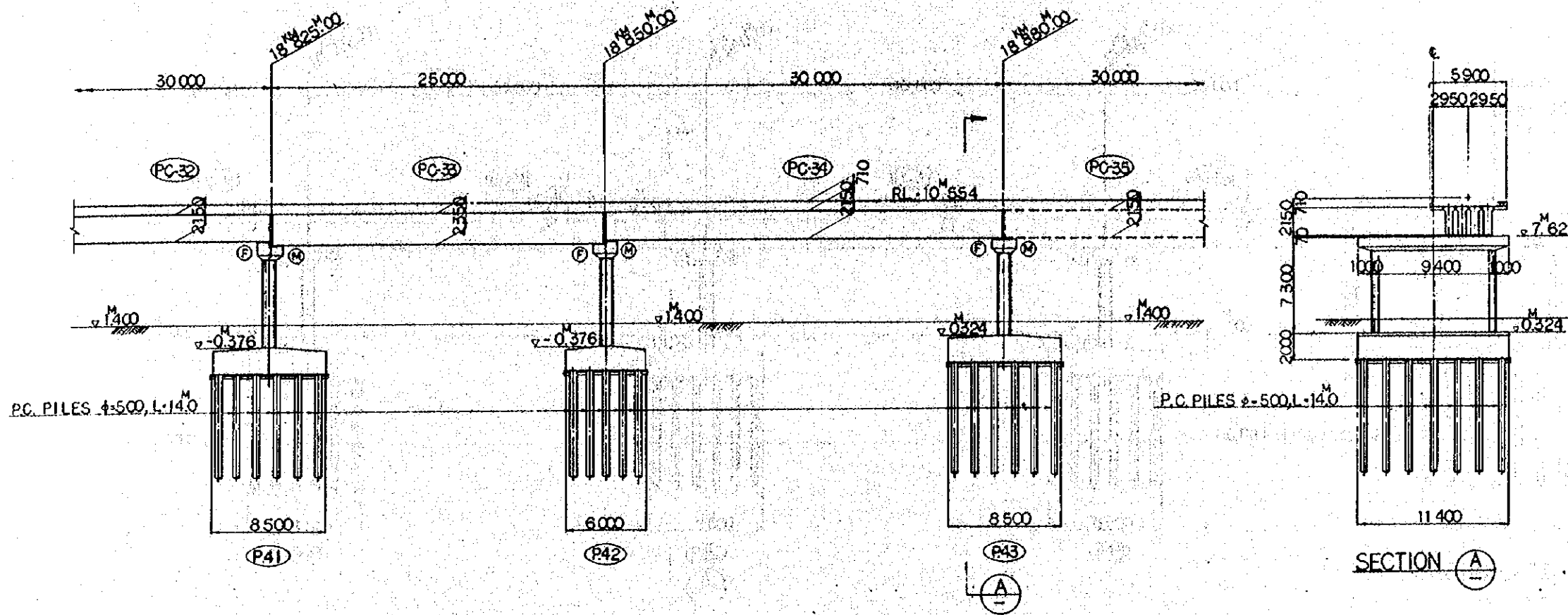
PLAN



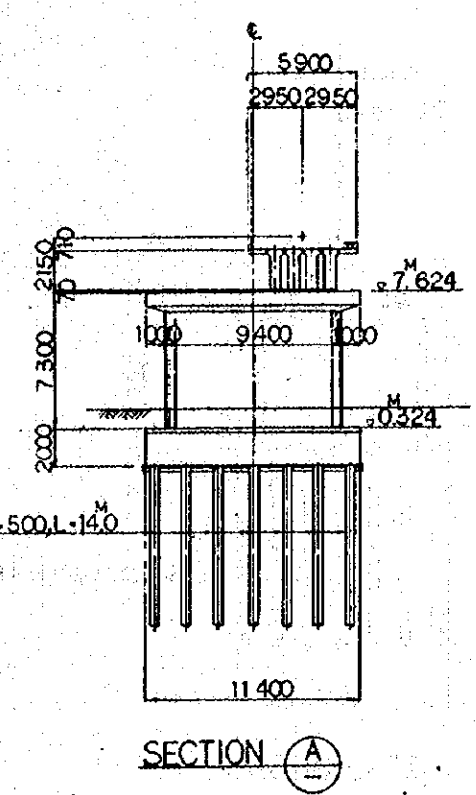
- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS190, CS049, CS045, CS077, CS103, CS111.
  3. CODE:
    - ⊙ --- FIXED BEARING
    - ⊗ --- EXPANSION BEARING

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG '84	NY	my	KA	GM	AK
A	15 FEB '84	NY	my	KA	GM	AK
REVISION	DATE	DRAWN	CHECKED	REVIEWED	SUBMITTED	
BRIDGE B12 GENERAL VIEW (SHEET 1 OF 2)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-016				

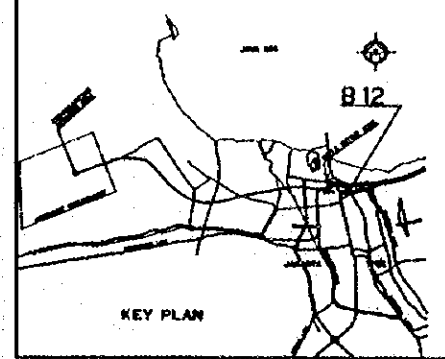




LONGITUDINAL SECTION

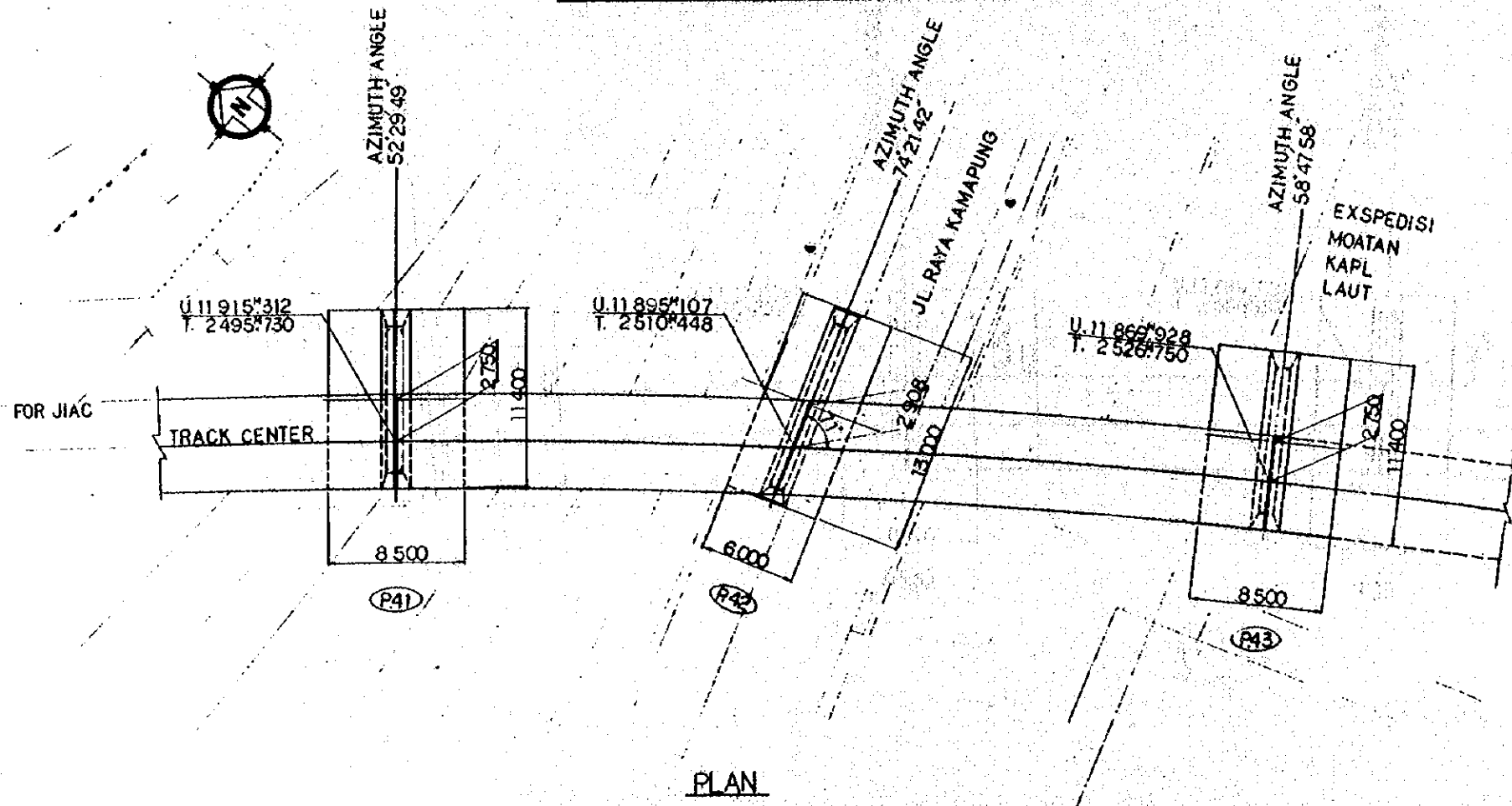


SECTION A



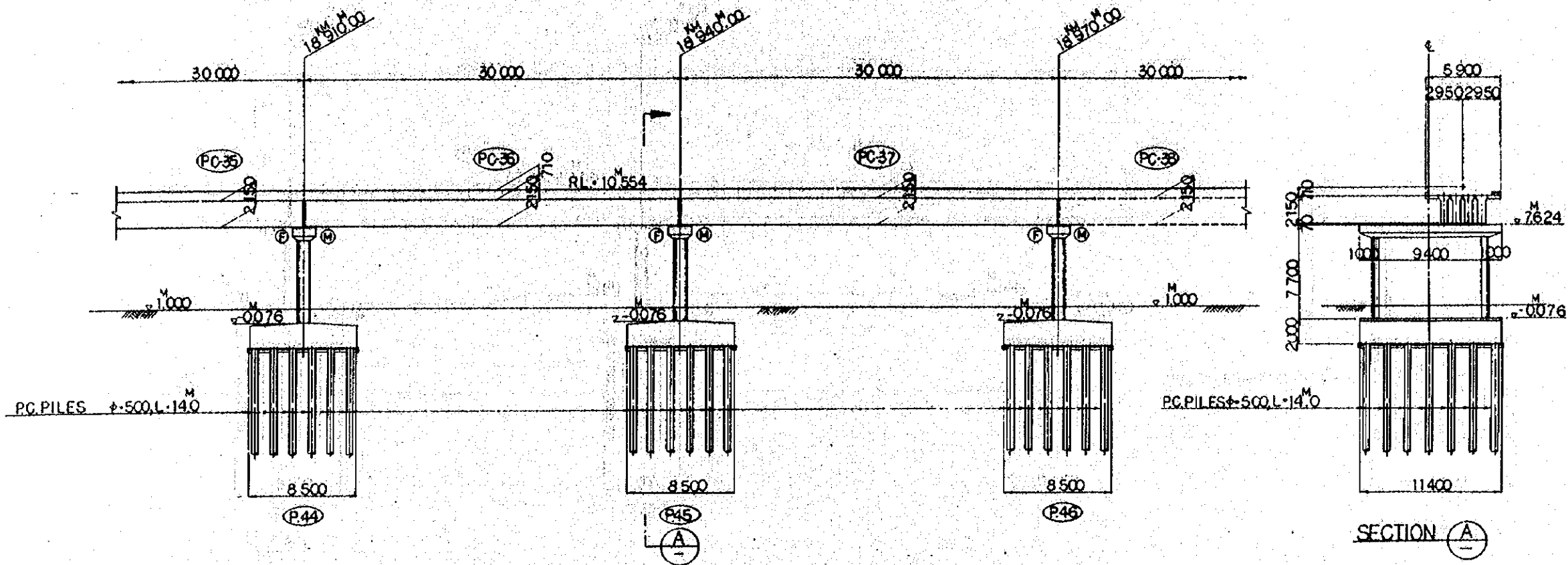
- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS045, CS053, CS054, CS111, CS115, CS090.

3. CODE:
- ⊙ --- FIXED BEARING
  - ⊕ --- EXPANSION BEARING

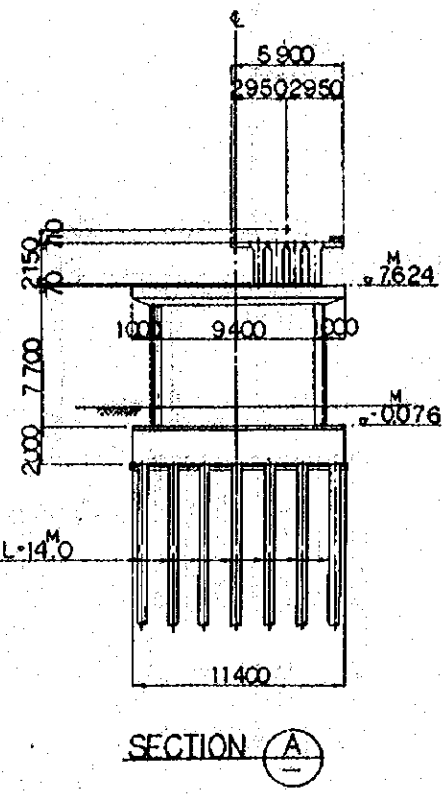


PLAN

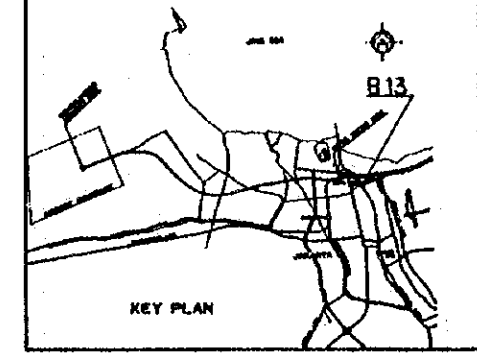
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENS AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG '84	M.Y.	M.Y.	K.A.	K.M.	M.K.
A	15 FEB '84	M.Y.	M.Y.	K.A.	K.M.	M.K.
REVISIONS	DATE	DESIGNED	CHECKED	REVIEWED	APPROVED	
BRIDGE B12 GENERAL VIEW (SHEET 2 OF 2)						
PACKAGE: I CIVIL AND ARCHITECTURAL WORK						
SCALE: 1:200		DRAWING NO: CS-017				



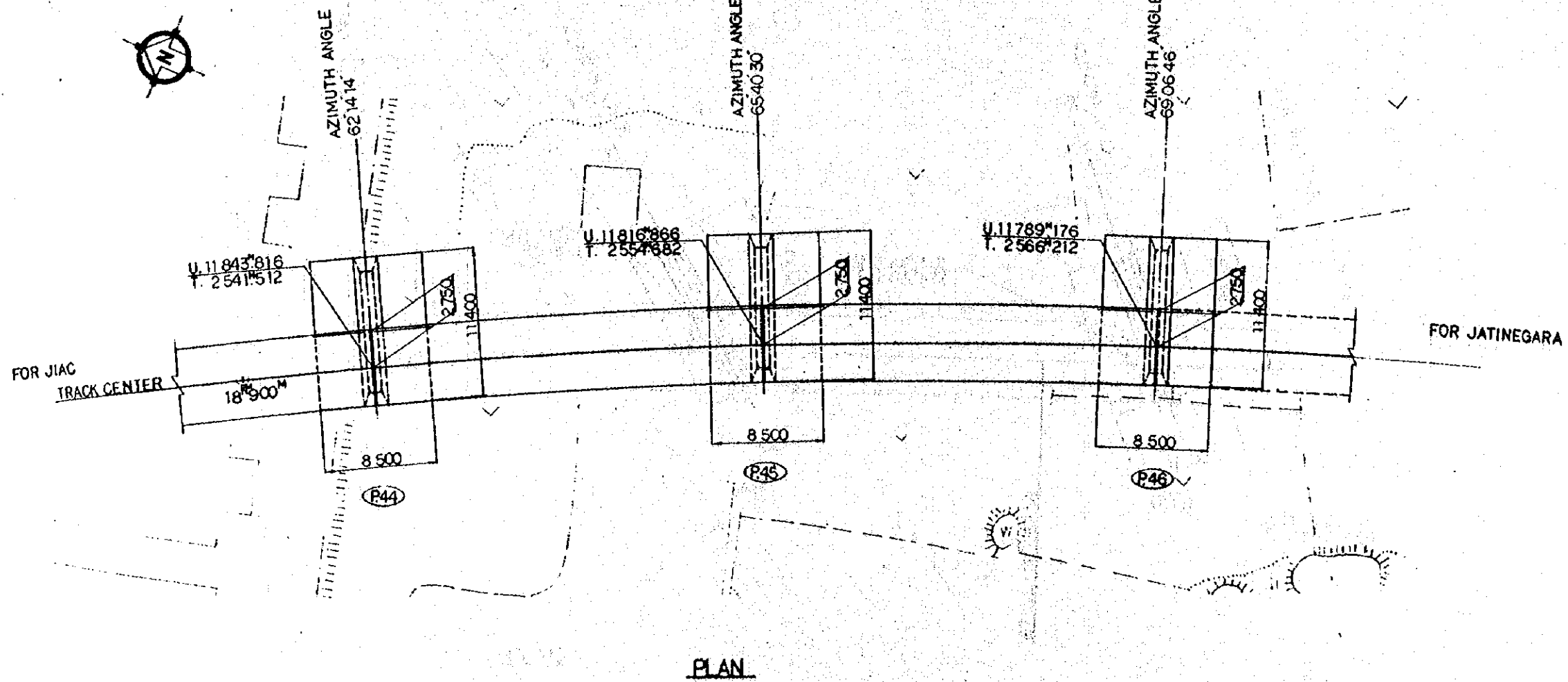
LONGITUDINAL SECTION



SECTION A

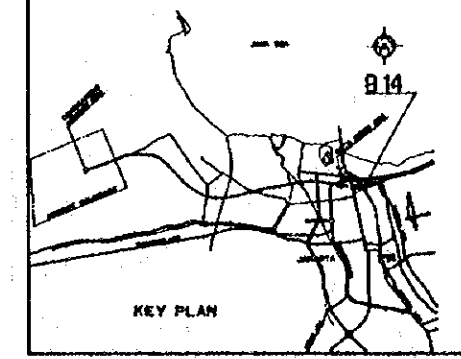
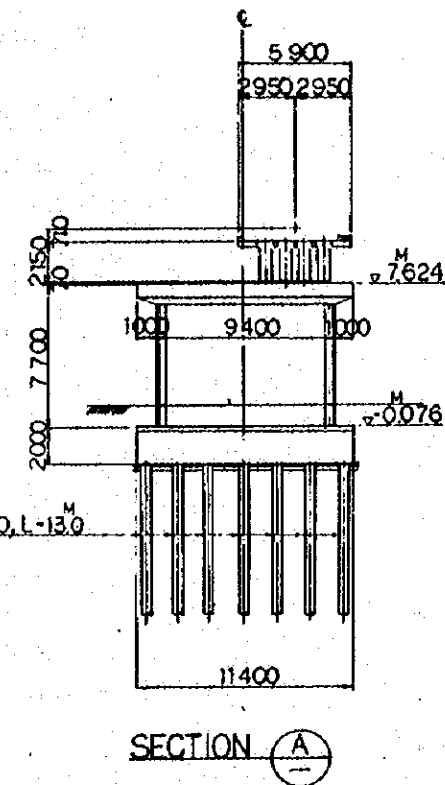
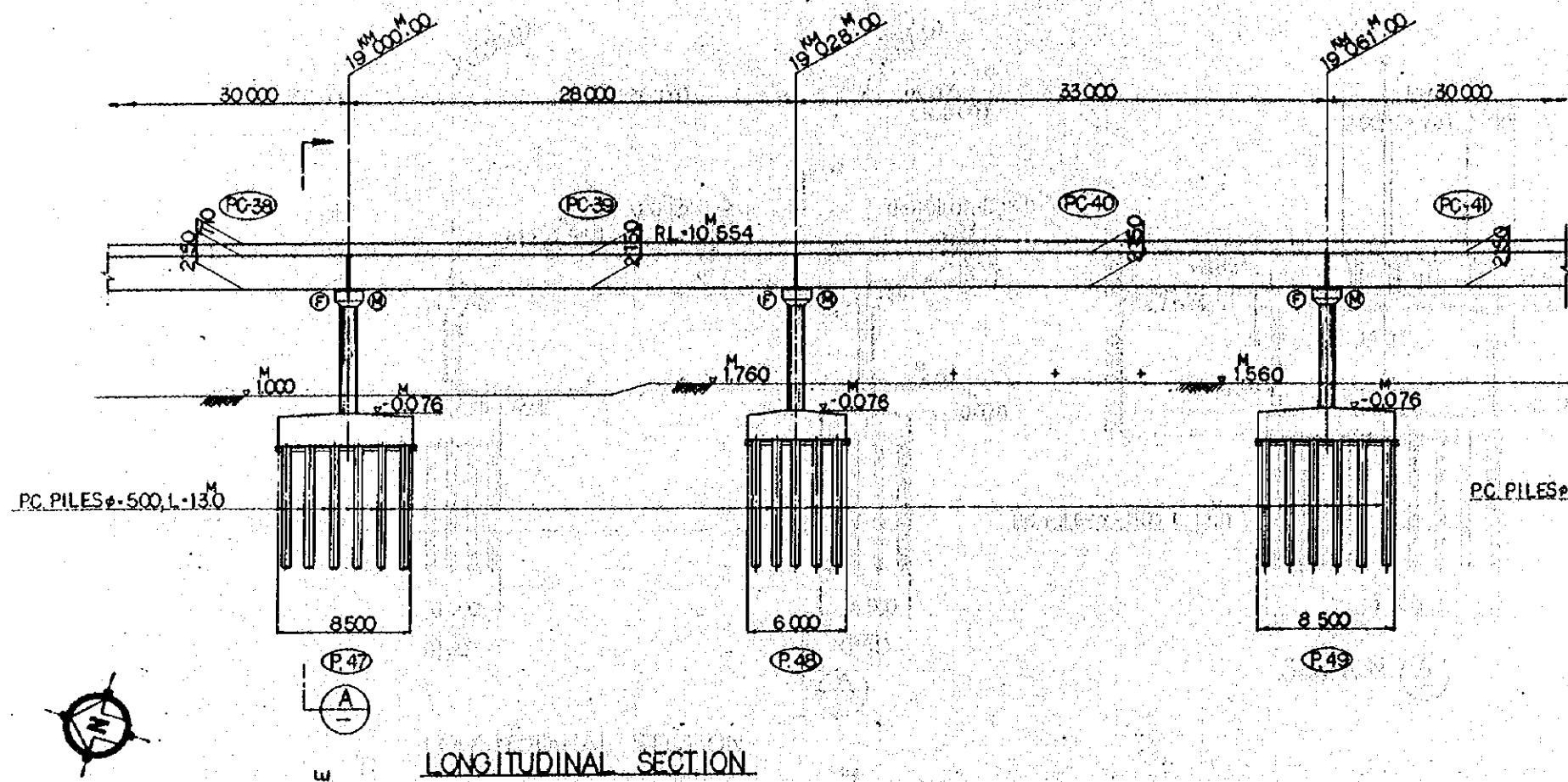


- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS045.CS090.
  3. CODE :
    - ⊕---- FIXED BEARING
    - ⊕---- EXPANSION BEARING

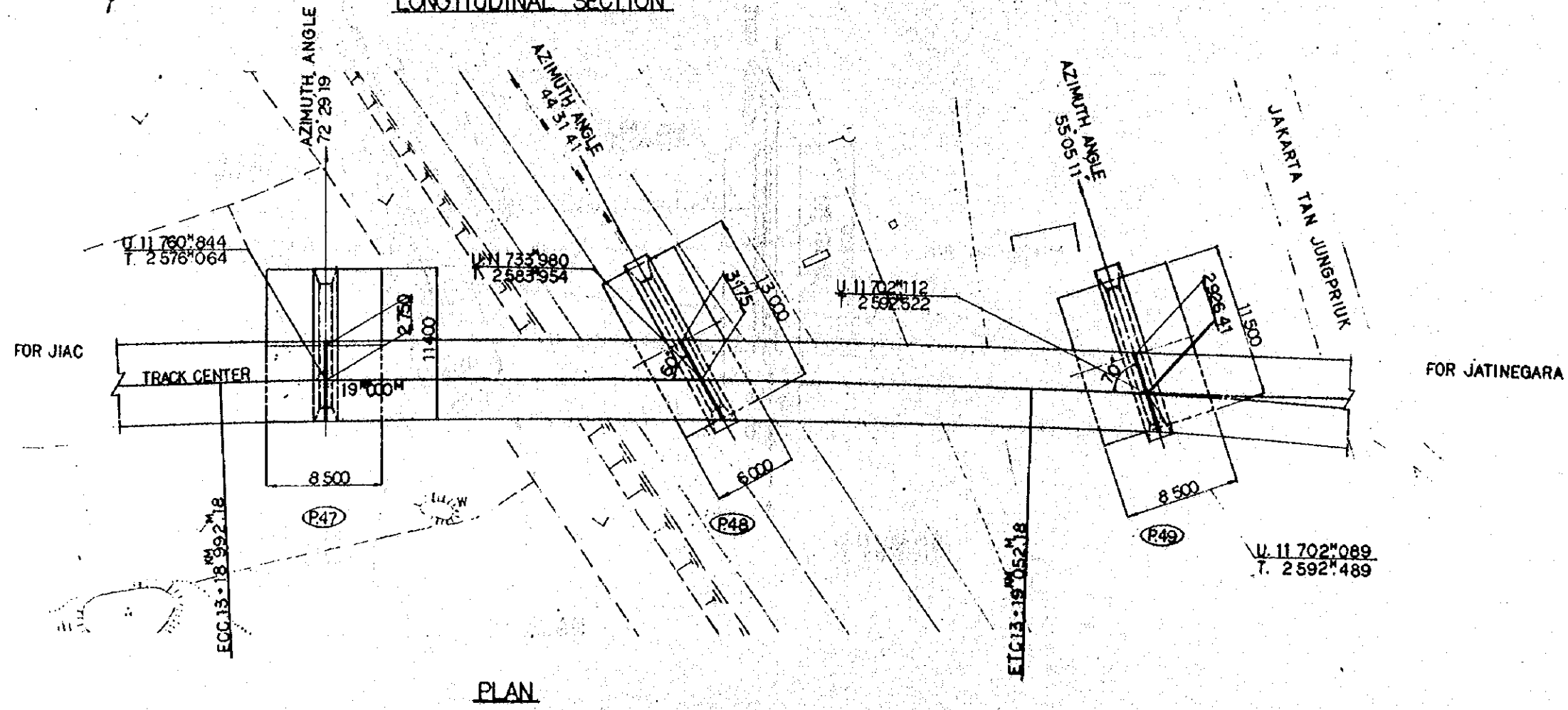


PLAN

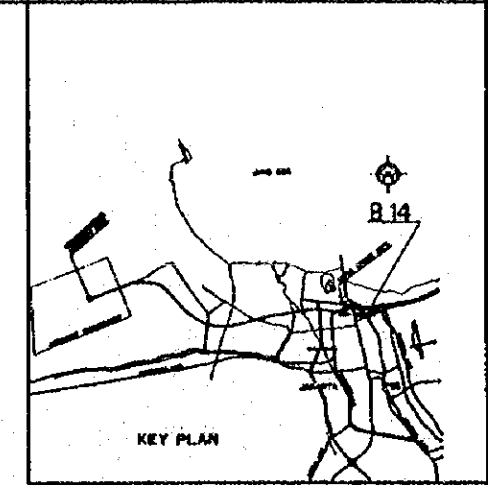
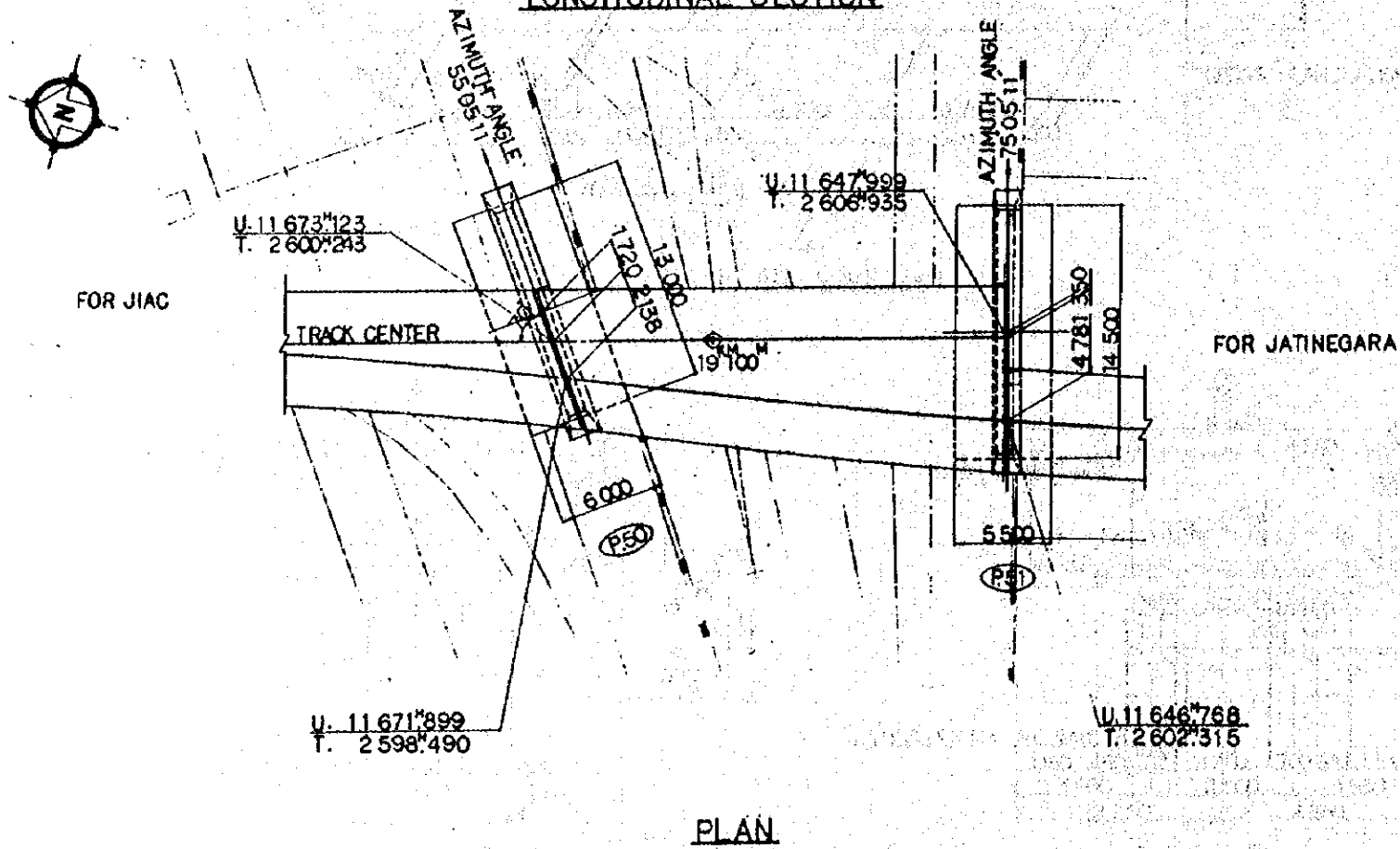
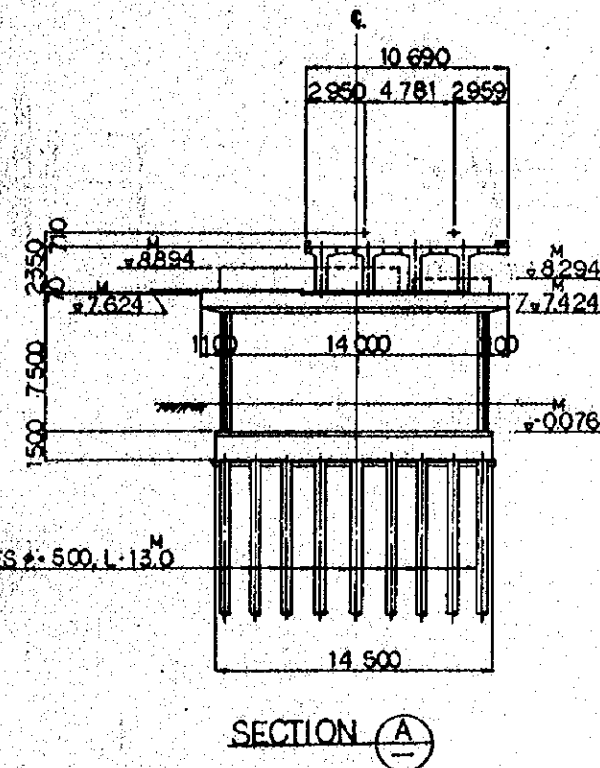
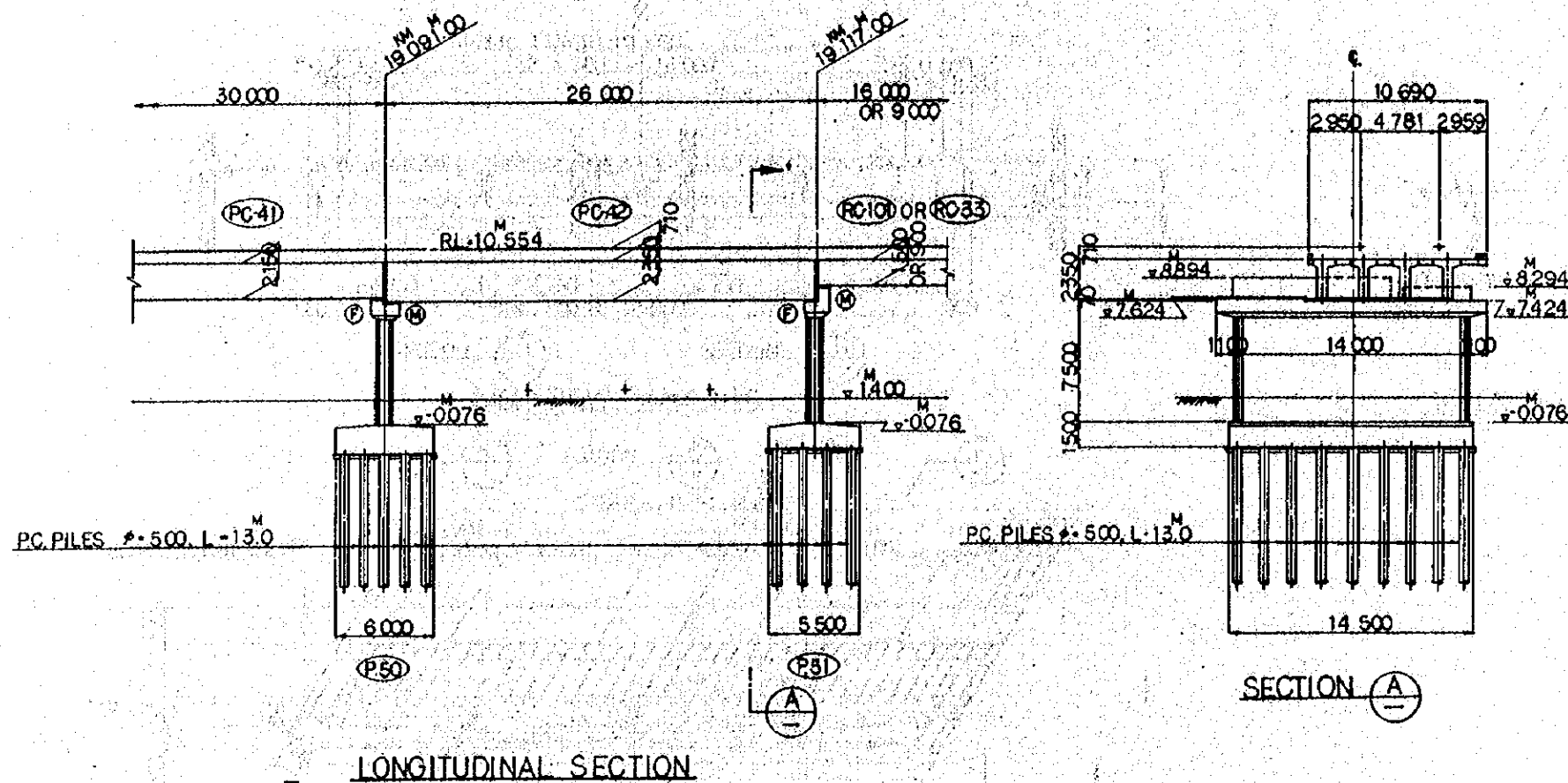
REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
B	1AUG.'84	NY	M.Y	K.A	M.K
A	15 FEB.'84	NY	M.Y	K.A	M.K
REVISIONS	DATE	DESIGNED	CHECKED	REVIEWED	APPROVED
<b>BRIDGE B13</b> <b>GENERAL VIEW</b>					
PACKAGE: I CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-018			



- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REFERENCE DRAWING FOR GENERAL VIEW: CS-045, CS-055, CS-056, CS-061, CS-116, CS-117, CS-121.
  3. CODE:
    - ⊕ --- FIXED BEARING
    - ⊗ --- EXPANSION BEARING



REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS					
NEW RAILWAY LINE FOR GEMKARENG AIRPORT CONSTRUCTION PROJECT					
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)					
B	1 AUG '84	HY	MY	KY	KM
A	15 FEB '84	HY	MY	KY	KM
REVISIONS	DATE	DESIGNED	CHECKED	APPROVED	SUBMITTED
BRIDGE B14 GENERAL VIEW (SHEET 1 OF 2)					
PACKAGE: I CIVIL AND ARCHITECTURAL WORK					
SCALE: 1:200		DRAWING NO: CS-019			



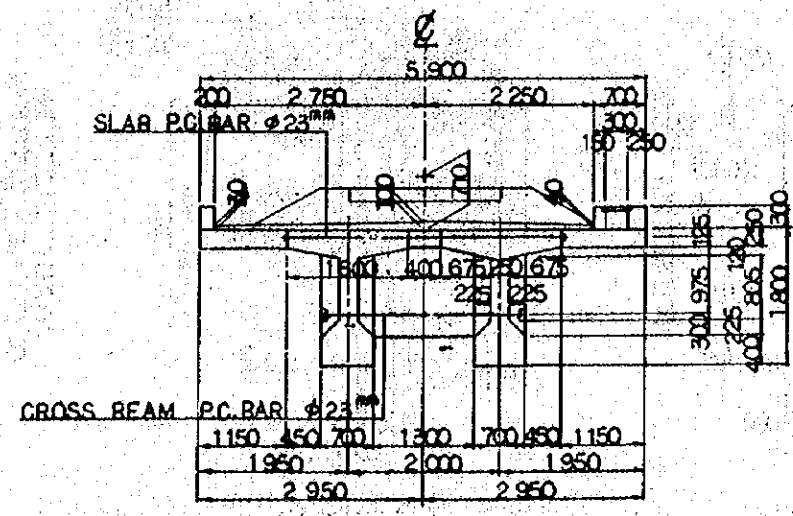
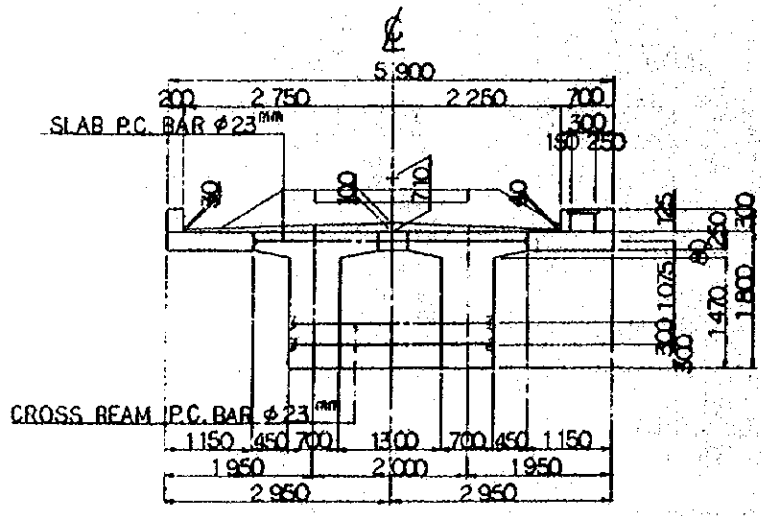
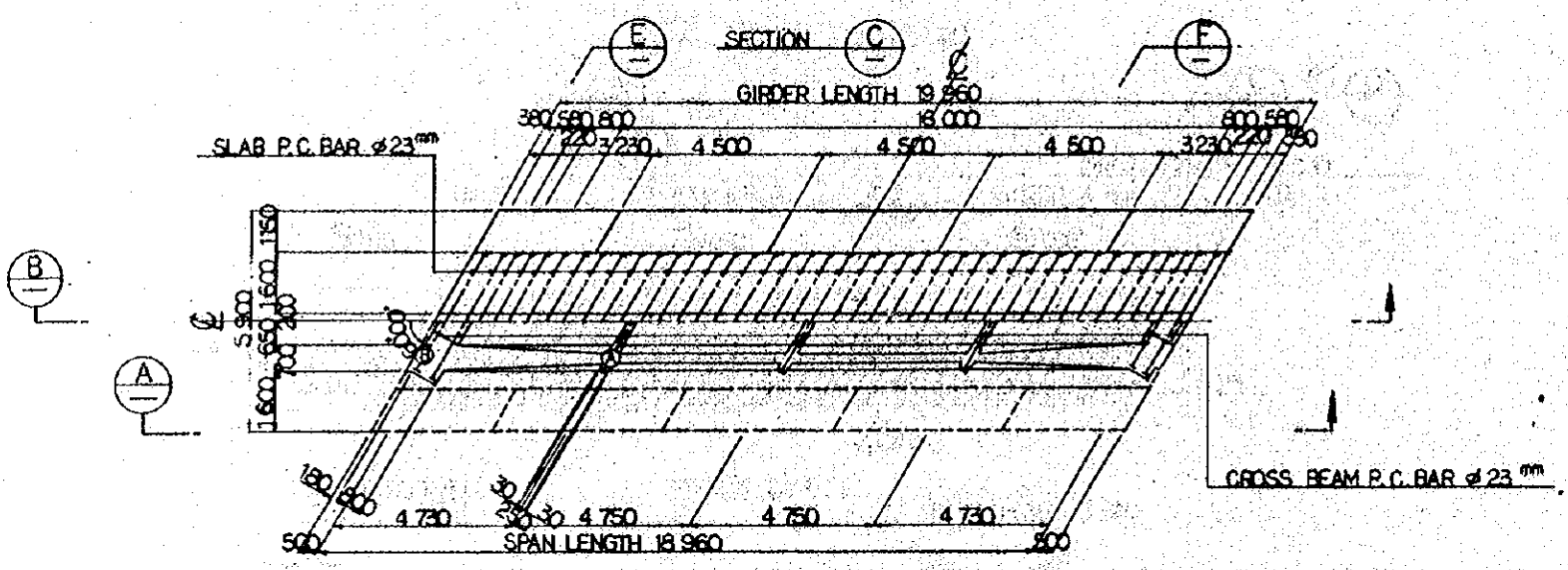
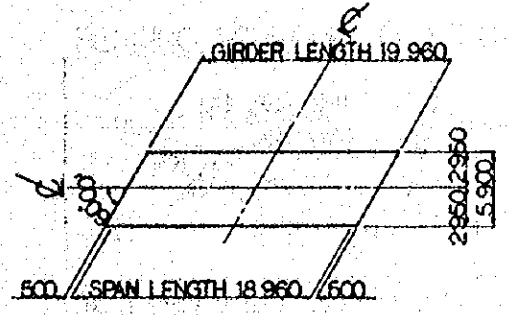
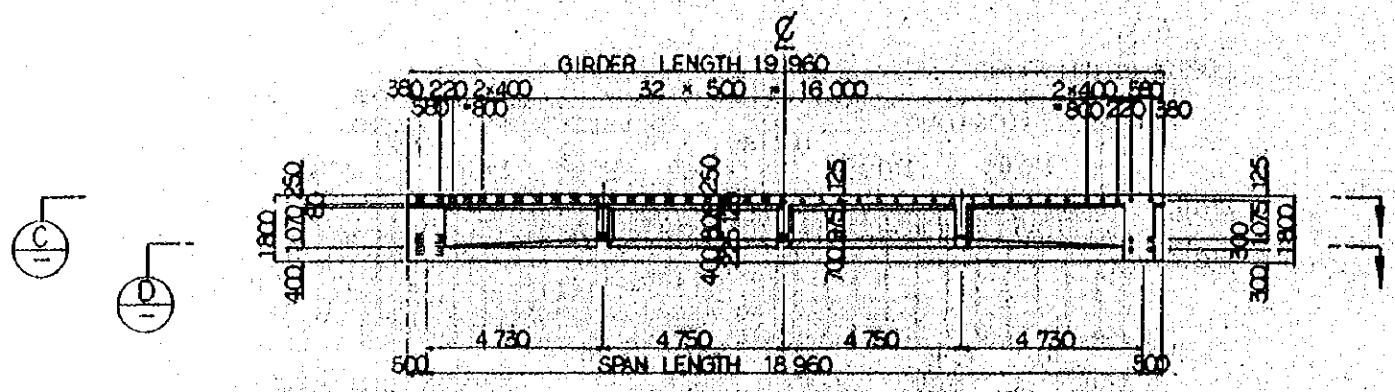
NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
2. REFERENCE DRAWING FOR GENERAL VIEW: CS-061, CS-062, CS-185, CS-275, CS-426, CS-126.

a. CODE:

- ⊖---FIXED BEARING
- ⊕---EXPANSION BEARING

REPUBLIC OF INDONESIA MINISTRY OF COMMUNICATIONS DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS						
NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT						
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)						
B	1 AUG'84	REV	REV	REV	REV	REV
A	15 FEB.84	REV	REV	REV	REV	REV
REVISIONS	DATE	BY	CHECKED	DESIGNED	APPROVED	REVISIONS
<b>BRIDGE B14</b> <b>GENERAL VIEW</b> <b>(SHEET 2 OF 2)</b>						
PROJECT: I CIVIL AND ARCHITECTURAL WORK						
SCALE 1:200		DRAWING NO. CS-020				



CROSS SECTION SCALE 1:50

SUPERSTRUCTURE MATERIAL SCHEDULE (B01 - PC01)

ITEM	TYPE	UNIT	QUANTITY
MAIN BEAM	CONCRETE CLASS A (16-400 <sup>kg/cm<sup>2</sup></sup> )	m <sup>3</sup>	52.2
	P.C. STRAND 12T12.7 (15-190 <sup>kg/mm<sup>2</sup></sup> )	kg	1960.4
	SHEATH P65	m	195.6
	FORMS	m <sup>2</sup>	229.3
	ANCHORING DEVICE FOR 12T12.7	EACH	20
	REINFORCING BAR 19	kg	—
	REINFORCING BAR 16	kg	557.2
	REINFORCING BAR 13	kg	3029.6
	REINFORCING BAR 10	kg	74.2
	TOTAL		3661.0
LATERAL JOINT	CONCRETE CLASS B (16-300 <sup>kg/cm<sup>2</sup></sup> )	m <sup>3</sup>	5.8
	P.C. BAR $\phi 23$ (15-110 <sup>kg/mm<sup>2</sup></sup> )	kg	692.1
	SHEATH $\phi 35$	m	203.0
	FORMS	m <sup>2</sup>	26.3
	ANCHOR PLATE/NUT FOR $\phi 23$	EACH	104
REINFORCING BAR 18	kg	757.4	
REINFORCING BAR 13	kg	1537.4	
REINFORCING BAR 10	kg	66.7	
TOTAL		2361.5	
SIDEWALK CONCRETE CLASS C (16-240 <sup>kg/cm<sup>2</sup></sup> )	m <sup>3</sup>	11.5	
BRIDGE RAILING CONCRETE	m <sup>3</sup>	3.9	
AND DUCT FORMS	m <sup>2</sup>	36.4	
MORTAR WITH SLOPE-PROTECTIVE MORTAR	m <sup>3</sup>	6.7	
DRAINAGE	EACH	4	
ELASTOMERIC BEARING PADS	FIX. FOR R = 140 ton	2	
	MOV. FOR R = 140 ton	2	

- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - MAIN BEAM SHALL BE PRECAST AND ALL THE OTHER CONCRETE EXCEPT R.C. COVER SHALL BE CAST IN PLACE
  - P.C. STRAND 12T 12.7 MEANS A GROUP OF 12 NO STRANDS FOR PRESTRESSED CONCRETE OF 12.7 MM DIAMETER EACH AND SHALL CONFORM TO JIS G 3538 SWPR7B 12T 12.7 OR EQUIVALENT
  - P.C. BAR SHALL CONFORM TO THE REQUIREMENTS AS FOLLOWS:  
 MINIMUM ULTIMATE TENSILE STRENGTH : 190<sup>kg/mm<sup>2</sup></sup>  
 MINIMUM YIELD STRESS : 160<sup>kg/mm<sup>2</sup></sup>
  - THIS DRAWING SHALL BE APPLIED TO : B01 - PC03
  - DESIGN TRAIN LOAD : EQUIVALENT TO KS - 16

REPUBLIC OF INDONESIA  
 MINISTRY OF COMMUNICATIONS  
 DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS

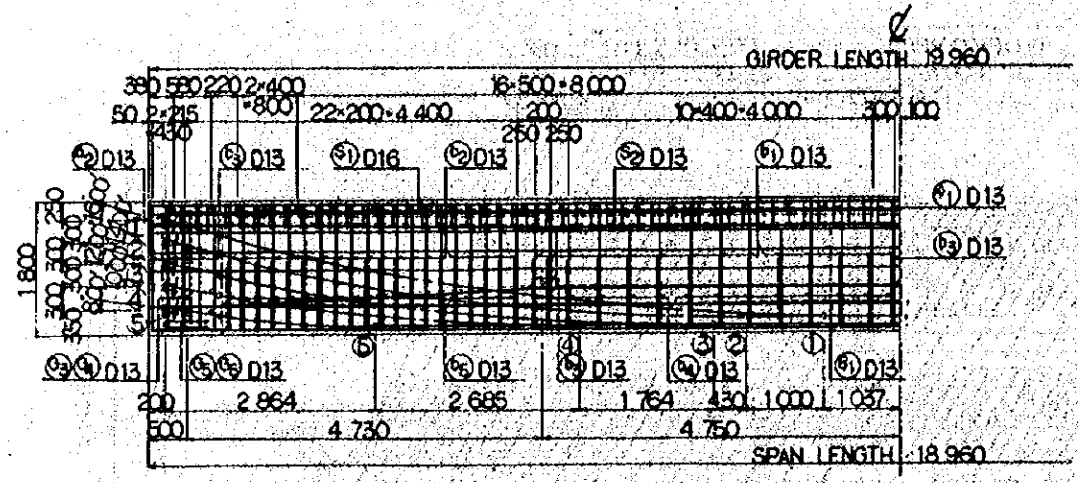
NEW RAILWAY LINE FOR CENGKARENGI AIRPORT CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

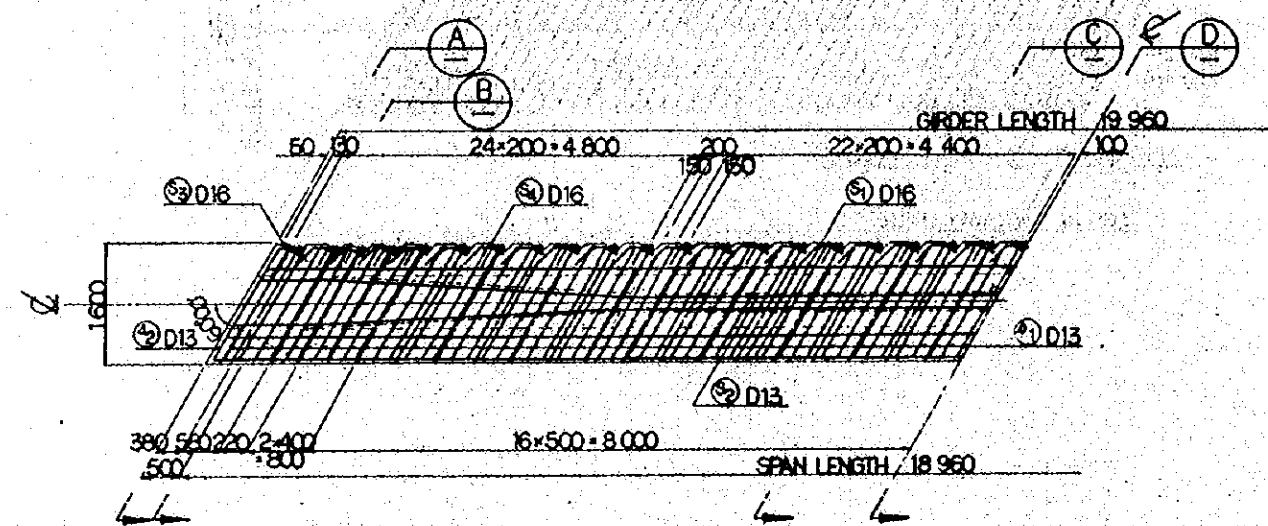
REVISOR	DATE	REASON	DESIGNED	CHECKED	REVISED	SUBMITTED
B	1 AUG '84		H.Y.A.	K.A.	K.M.	M.L.
A	15 FEB '84		H.Y.A.	A.O.	K.A.	K.N.

P.C. GIRDER  
 PC 01  
 GENERAL VIEW

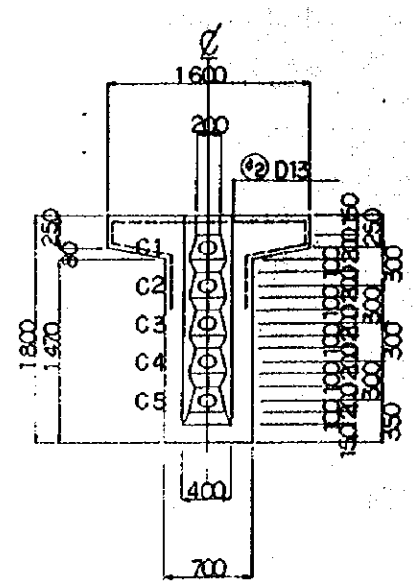
PACKAGE : I CIVIL AND ARCHITECTURAL WORK  
 SCALE : AS NOTED  
 DRAWING NO : CS - 021



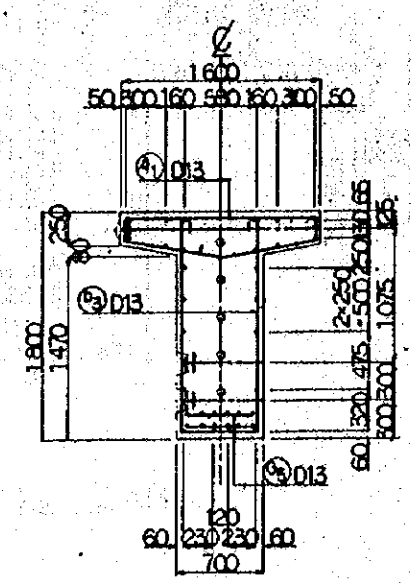
SIDE VIEW SCALE 1:50



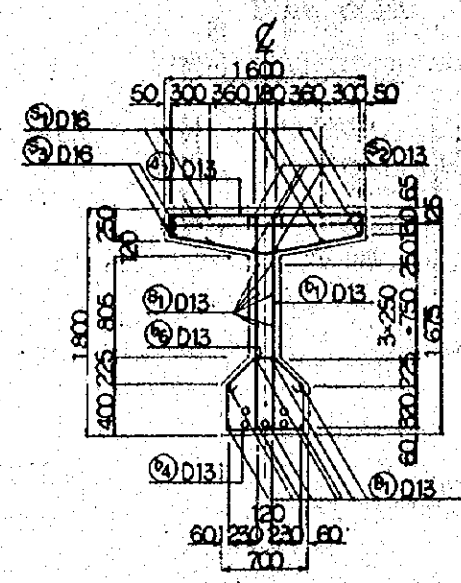
PLAN SCALE 1:50



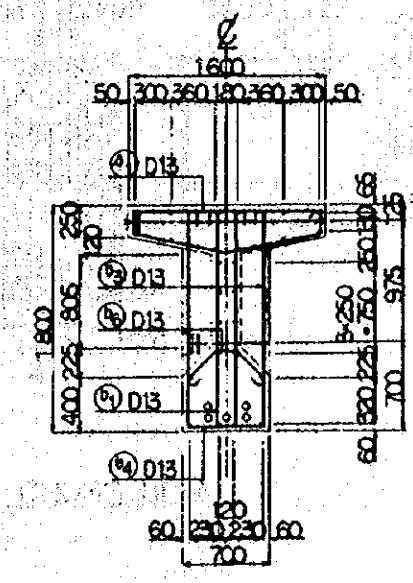
SECTION A



SECTION B



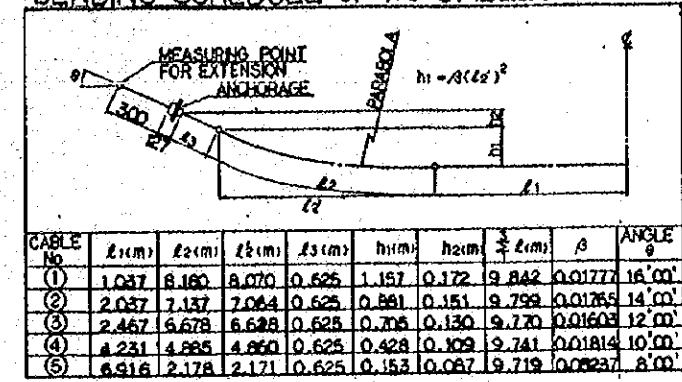
SECTION C



SECTION D

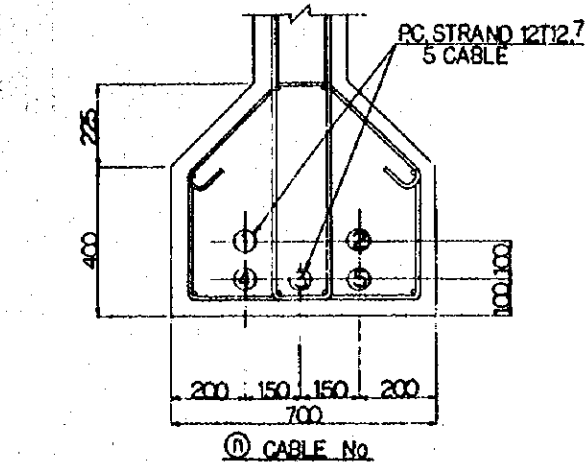
CROSS SECTION SCALE 1:30

BENDING SCHEDULE OF PC CABLES



SCHEDULE OF PC BAR

SLAB	(mm)
A	4.977
CROSS BEAM	(mm)
A	2.938
B	3.383



ARRANGEMENT OF PC CABLE SCALE 1:10

- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED
  - REINFORCEMENT OF ANCHORAGE AND RECESS DIMENSION ARE EXAMPLES AND THESE SHALL BE REVIEWED AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS FOR THE SELECTED PRESTRESSING SYSTEM
  - JACKING LOAD INCLUDE FRICTION IN THE JACK AND ANCHORAGE. EXTENSION SHOWS TOTAL VALUE OF THOSE AT BOTH ENDS MEASURED AT THE POINT 30CM OUTSIDE FROM ANCHORAGE SURFACE. AFTER THE PRESTRESSING SYSTEM IS DETERMINED THESE VALUES SHALL BE REVIEWED ALONG WITH THE OTHER ASSUMED FACTORS AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. INITIAL STRESS DO NOT INCLUDE OTHER FACTORS THAN FRICTION LOSSES.
  - TENSIONING SEQUENCE OF LATERAL PC BARS SHALL BE AT EVERY OTHER BAR

REPUBLIC OF INDONESIA  
 MINISTRY OF COMMUNICATIONS  
 DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS

NEW RAILWAY LINE FOR CENGKARENG AIRPORT  
 CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

B	1 AUG '84	MYAO	KA	KM	AK
A	15 FEB '84	MYAO	KA	KM	AK

REVISIONS DATE DESIGNED DRAWN CHECKED REVIEWED SUBMITTED

PC GIRDER  
 PC 01  
 PC CABLE AND REINF BAR  
 ARRANGEMENT OF MAIN BEAM

PACKAGE: I CIVIL AND ARCHITECTURAL WORK  
 SCALE: AS NOTED DRAWING NO: CS-022

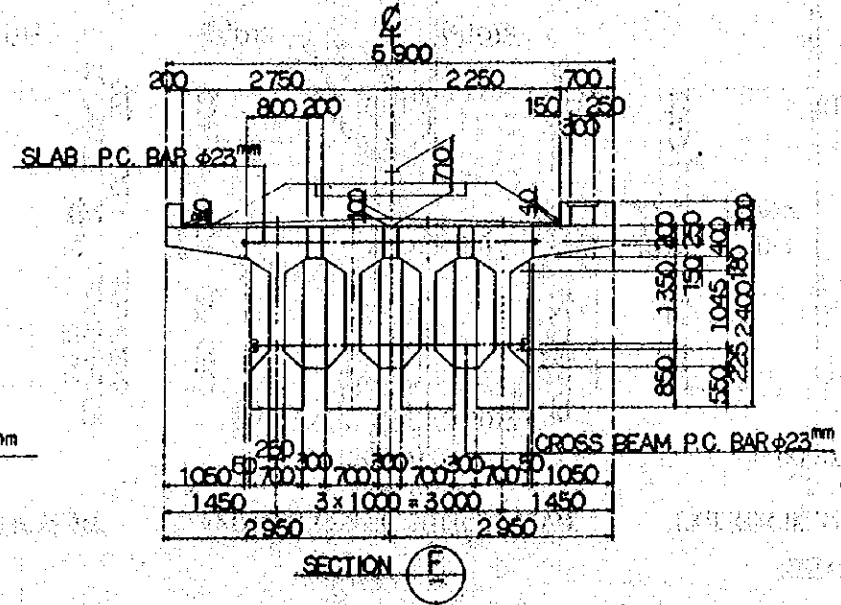
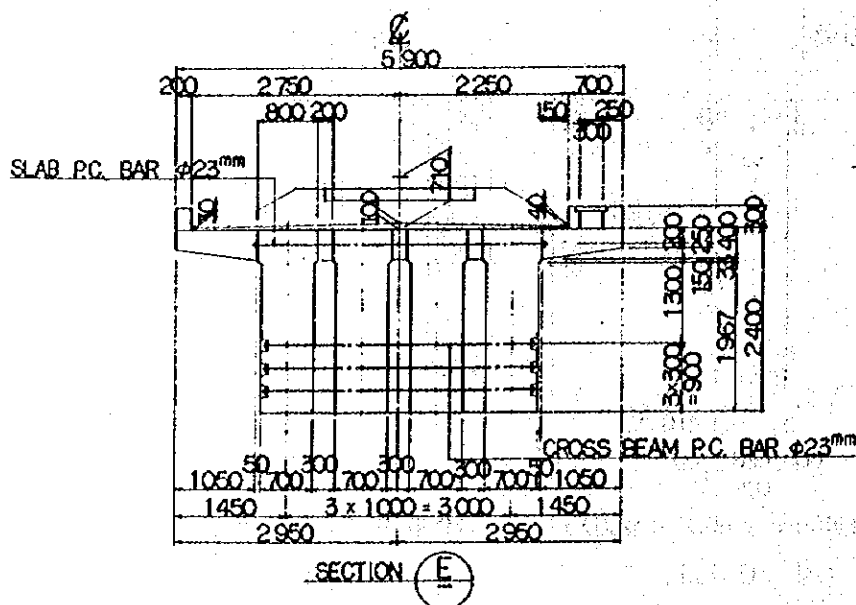
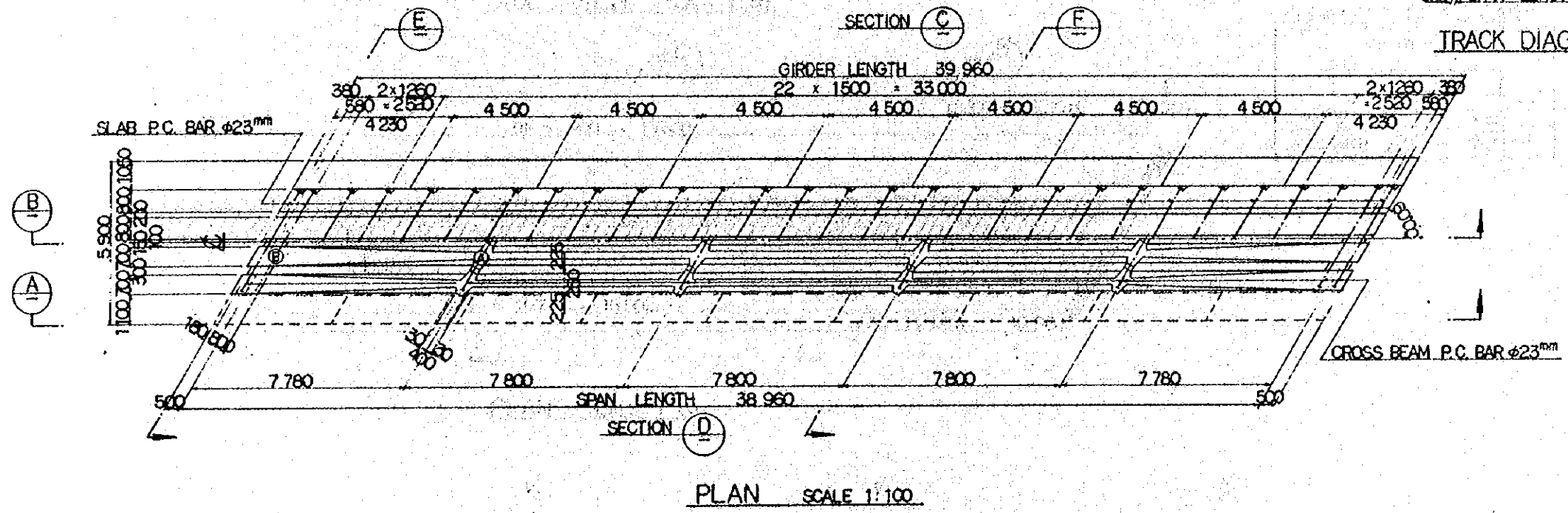
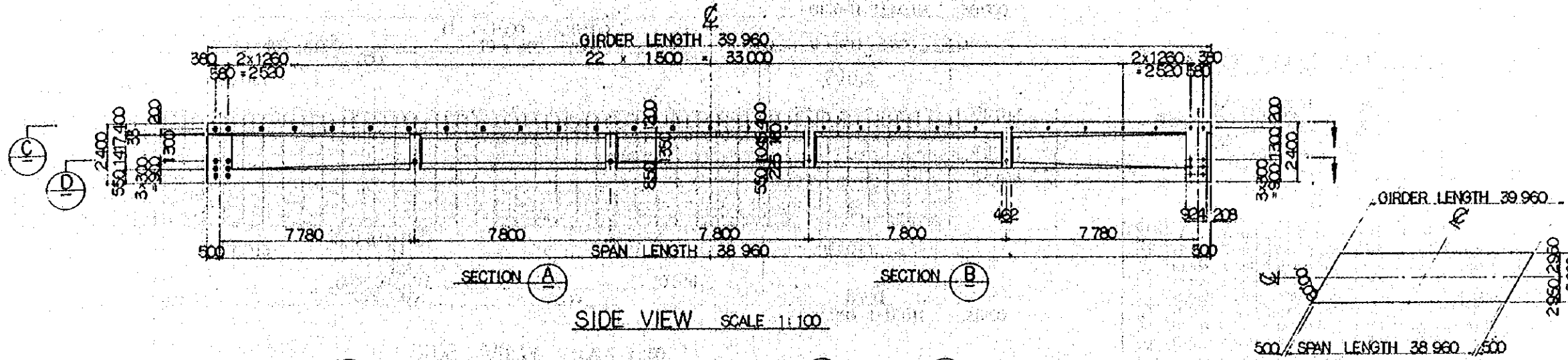






NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
2. MAIN BEAM SHALL BE PRECAST AND ALL THE OTHER CONCRETE EXCEPT R.C. COVER SHALL BE CAST IN PLACE
3. P.C. STRAND 12T 15.2 MEANS A GROUP OF 12 NO STRANDS FOR PRESTRESSED CONCRETE OF 15.2MM DIAMETER EACH AND SHALL CONFORM TO JIS G 3536 SWPR7A 12T 15.2 OR EQUIVALENT
4. P.C. BAR SHALL CONFORM TO THE REQUIREMENTS AS FOLLOWS:  
 MINIMUM ULTIMATE TENSILE STRENGTH:  $165 \text{ kg/mm}^2$   
 MINIMUM YIELD STRESS:  $140 \text{ kg/mm}^2$
5. THIS DRAWING SHALL BE APPLIED TO:  
 : B06 - PC19
6. DESIGN TRAIN LOAD: EQUIVALENT TO  
 KS - 16



CROSS SECTION SCALE 1:50

SUPERSTRUCTURE MATERIAL SCHEDULE (B01-PC02)

ITEM	TYPE	UNIT	QUANTITY
MAIN BEAM	CONCRETE CLASS A ( $16-400 \text{ kg/cm}^2$ )	$\text{m}^3$	211.3
	P.C. STRAND 12T 15.2 ( $15-165 \text{ kg/cm}^2$ )	kg	15,233.9
	SHEATH $\phi 7.5$	m	1,102.0
	FORMS	$\text{m}^2$	968.3
	ANCHORING DEVICE FOR 12 T 15.2	EACH	56
	REINFORCING BAR		
	19	kg	2,869.9
	18	"	"
	13	"	10,581.2
	10	"	69.6
TOTAL			13,521.3
LATERAL JOINT	CONCRETE CLASS B ( $16-300 \text{ kg/cm}^2$ )	$\text{m}^3$	15.3
	P.C. BAR $\phi 23$ ( $15-110 \text{ kg/cm}^2$ )	kg	662.5
	SHEATH $\phi 3.5$	m	195.2
	FORMS	$\text{m}^2$	46.0
	ANCHOR PLATE, NUT FOR $\phi 23$	EACH	90
REINFORCING BAR	16	kg	1,423.6
	13	"	1,978.6
	10	"	649.5
	TOTAL		4,051.7
SIDEWALK CONCRETE	CLASS C ( $16-240 \text{ kg/cm}^2$ )	$\text{m}^3$	27.3
BRIDGE RAILING AND DUCT	CONCRETE	$\text{m}^3$	7.8
FORMS	$\text{m}^2$	72.4	
MORTAR WITH SLOPE PROTECTIVE MORTAR DRAINAGE		$\text{m}^3$	13.4
ELASTOMERIC BEARING PADS	FIX. FOR R=190 ton	"	4
	MOV. FOR R=190 ton	"	4

REPUBLIC OF INDONESIA  
 MINISTRY OF COMMUNICATIONS  
 DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS

NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT

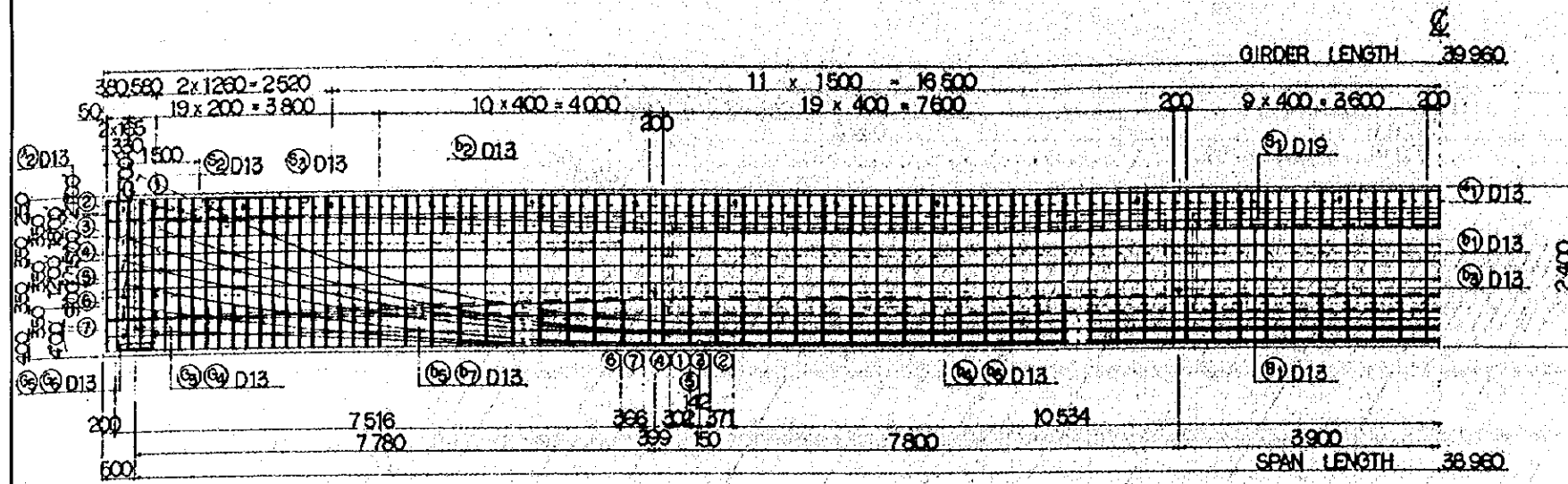
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

B	1 AUG '84	M.Y.	T.O.	K.A.	K.M.	K.
A	15 FEB '84	M.Y.	A.O.	K.A.	K.M.	K.

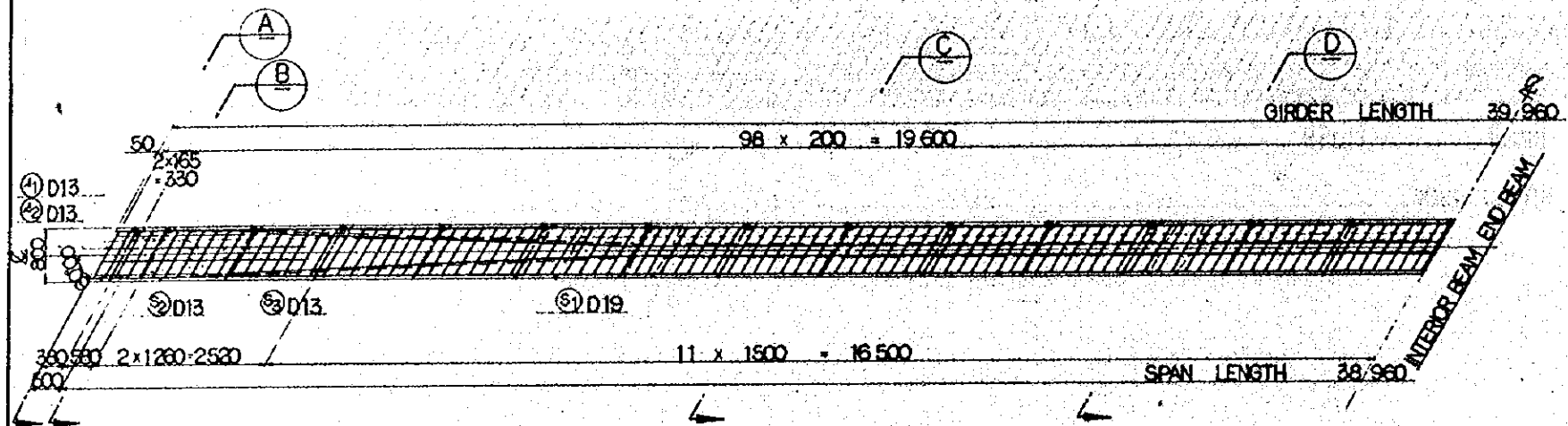
REVISIONS: DATE, DESIGNED, DRAWN, CHECKED, REVIEWED, SUBMITTED

P.C. GIRDER  
 PC 02  
 GENERAL VIEW

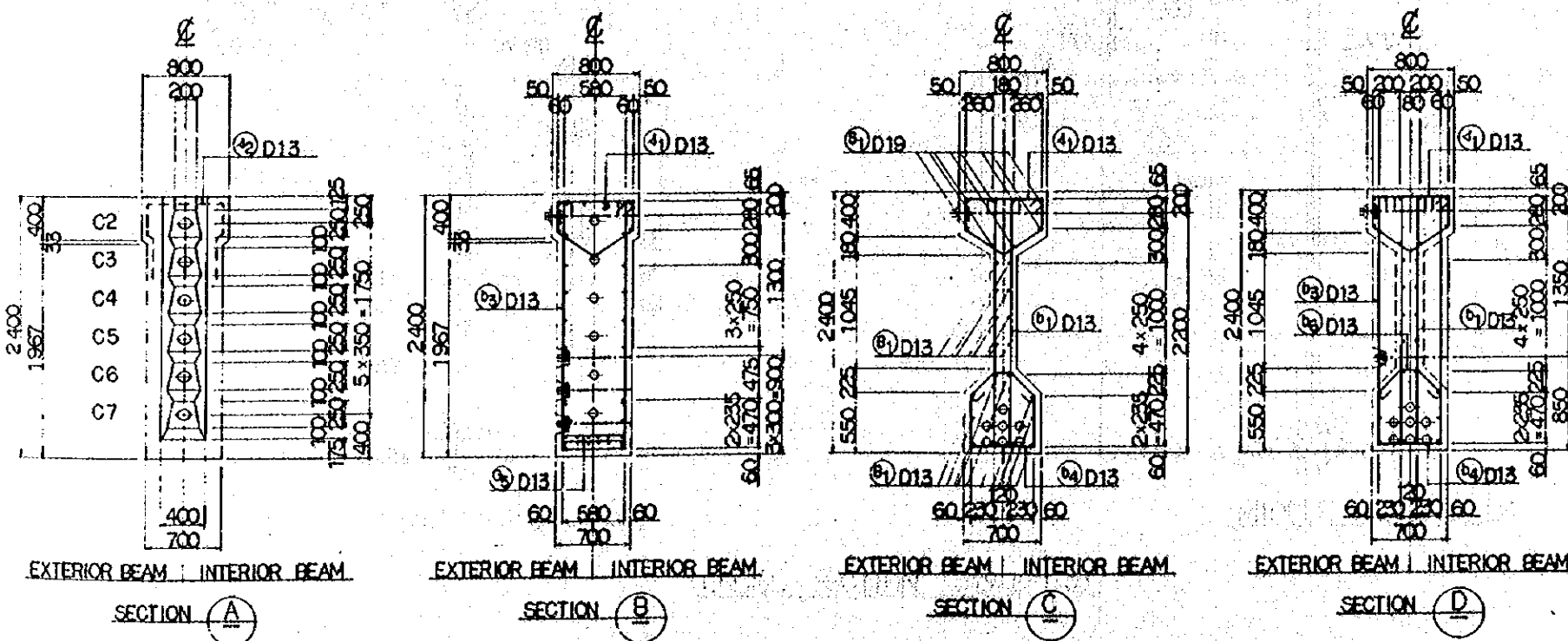
PACKAGE: I CIVIL AND ARCHITECTURAL WORK  
 SCALE: AS NOTED  
 DRAWING NO: CS - 025



SIDE VIEW SCALE 1:50

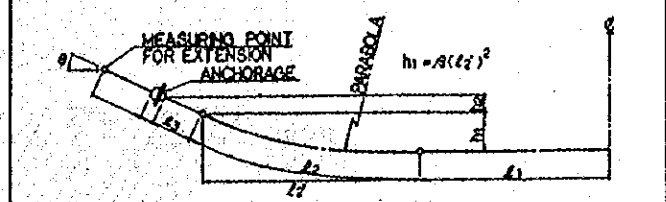


PLAN SCALE 1:50



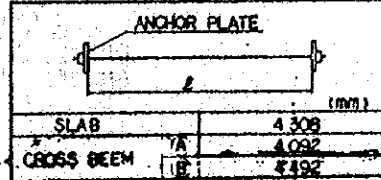
CROSS SECTION SCALE 1:30

BENDING SCHEDULE OF PC CABLES

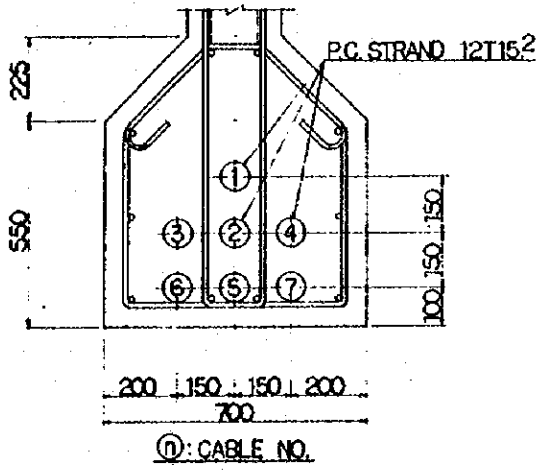


CABLE No.	L1(m)	L2(m)	L3(m)	L4(m)	h1(m)	h2(m)	L(m)	β	ANGLE θ
①	11.797	6.882	6.649	0.646	1.550	0.273	19.725	0.03507	26°00'
②	10.534	8.799	8.892	0.646	1.649	0.232	19.979	0.02234	21°00'
③	10.908	8.362	8.209	0.646	1.334	0.200	19.909	0.01979	16°00'
④	11.499	7.886	7.805	0.646	1.019	0.167	19.640	0.01762	15°00'
⑤	11.055	8.100	8.040	0.646	0.855	0.134	19.801	0.01322	12°00'
⑥	12.264	6.864	6.825	0.646	0.641	0.101	19.764	0.01160	9°00'
⑦	11.898	7.190	7.184	0.646	0.251	0.046	19.734	0.00467	4°00'

SCHEDULE OF PC BAR



- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. REINFORCEMENT OF ANCHORAGE AND RECESS DIMENSION ARE EXAMPLES AND THESE SHALL BE REVIEWED AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS FOR THE SELECTED PRESTRESSING SYSTEM
  3. JACKING LOAD INCLUDE FRICTION IN THE JACK AND ANCHORAGE. EXTENSION SHOWS TOTAL VALUE OF THOSE AT BOTH ENDS MEASURED AT THE POINT 30CM OUTSIDE FROM ANCHORAGE SURFACE. AFTER THE PRESTRESSING SYSTEM IS DETERMINED THESE VALUES SHALL BE REVIEWED ALONG WITH THE OTHER ASSUMED FACTORS AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. INITIAL STRESS DO NOT INCLUDE OTHER FACTORS THAN FRICTION LOSSES.
  4. TENSIONING SEQUENCE OF LATERAL PC BARS SHALL BE AT EVERY OTHER BAR



ARRANGEMENT OF PC CABLE SCALE 1:10

REPUBLIC OF INDONESIA  
 MINISTRY OF COMMUNICATIONS  
 DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS

NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

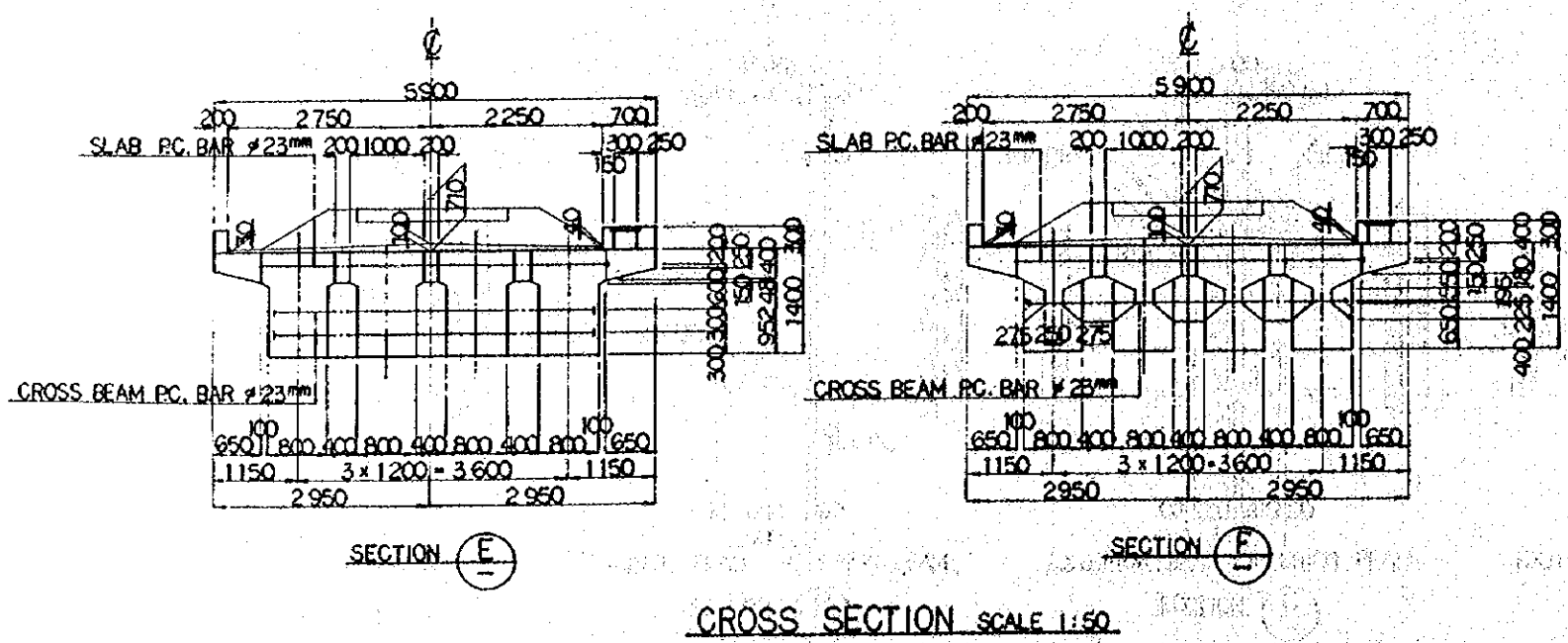
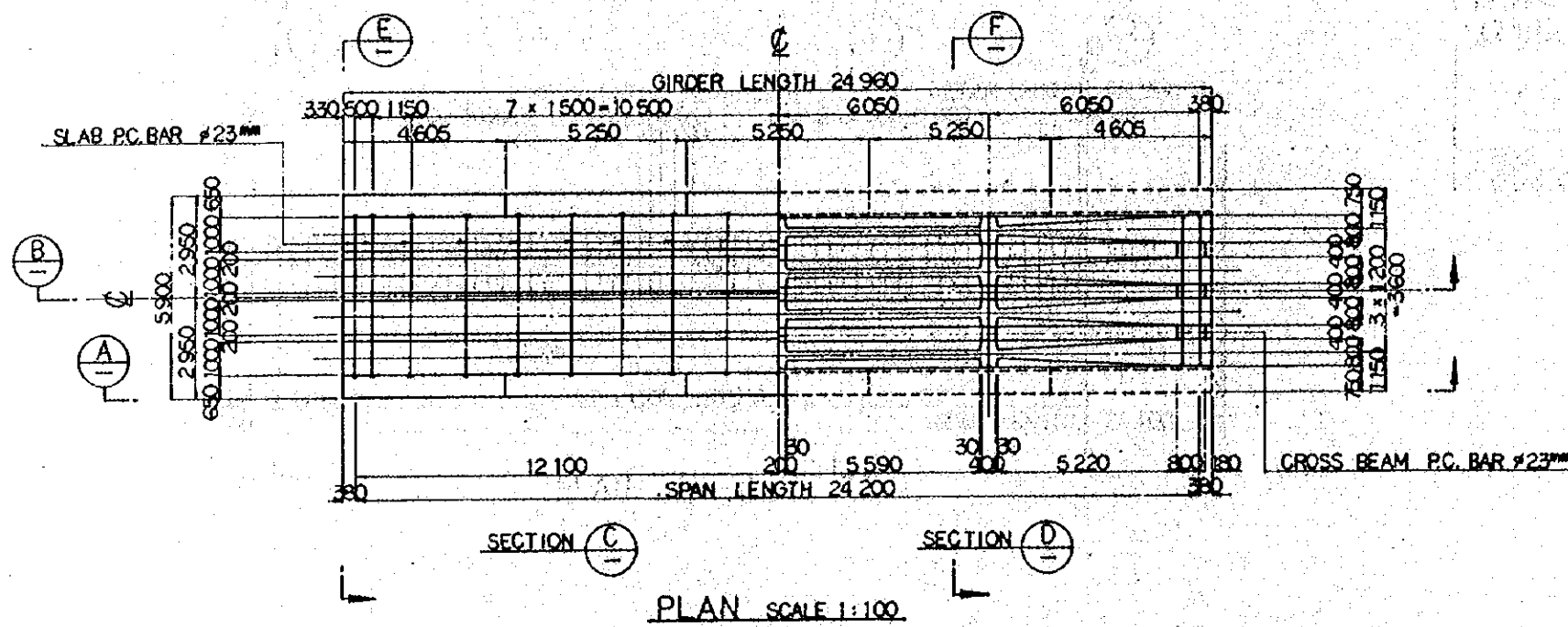
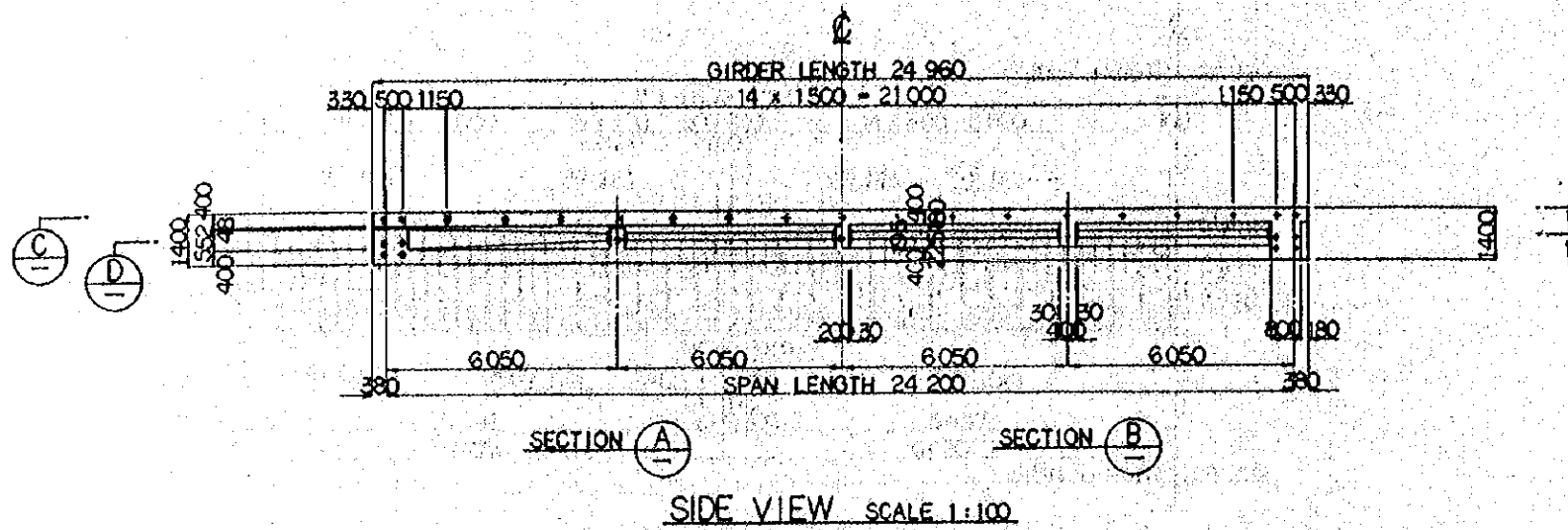
REVISIONS	DATE	DESIGNED	CHECKED	REVIEWED	SUBMITTED
B	1 AUG '84	MYAO	KAKM	AK	
A	15 FEB '84	MYAO	KAKM	AK	

P.C. GIRDER  
 PC 02  
 P.C. CABLE AND REINF. BAR  
 ARRANGEMENT OF MAIN BEAM

PACKAGE: 1 CIVIL AND ARCHITECTURAL WORK  
 SCALE: AS NOTED  
 DRAWING NO: CS-026







- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - MAIN BEAM SHALL BE PRECAST AND ALL THE OTHER CONCRETE EXCEPT R.C. COVER SHALL BE CAST IN PLACE
  - P.C. STRAND 12T 12.7 MEANS A GROUP OF 12 NO STRANDS FOR PRESTRESSED CONCRETE OF 12.7 MM DIAMETER EACH AND SHALL CONFORM TO JIS G 3536 SWPR7B 12T 12.7 OR EQUIVALENT
  - P.C. BAR SHALL CONFORM TO THE REQUIREMENTS AS FOLLOWS:  
 MINIMUM ULTIMATE TENSILE STRENGTH:  $190 \frac{kg}{mm^2}$   
 MINIMUM YIELD STRESS:  $160 \frac{kg}{mm^2}$
  - THIS DRAWING SHALL BE APPLIED TO:  
 : B03 - PC10  
 : B08 - PC22  
 : B08 - PC23  
 : B10 - PC27
  - DESIGN TRAIN LOAD: EQUIVALENT TO KS - 16

SUPERSTRUCTURE MATERIAL SCHEDULE (B02-PC04)

ITEM	TYPE	UNIT	QUANTITY
MAIN BEAM	CONCRETE CLASS A ( $f_c = 400 \frac{kg}{cm^2}$ )	m <sup>3</sup>	106.7
	P.C. STRAND 12T12.7 ( $f_s = 190 \frac{kg}{mm^2}$ )	kg	5,814.6
	SHEATH $\phi 65$	m	588.6
	FORMS	m <sup>2</sup>	426.1
	ANCHORING DEVICE FOR 12T 12.7	EACH	48
	REINFORCING BAR	kg	1241.0
			5290.8
			46.4
	TOTAL		6578.2
	LATERAL JOINT	CONCRETE CLASS B ( $f_c = 300 \frac{kg}{cm^2}$ )	m <sup>3</sup>
P.C. BAR $\phi 23$ ( $f_s = 110 \frac{kg}{mm^2}$ )		kg	453.7
SHEATH $\phi 35$		m	133.8
FORMS		m <sup>2</sup>	26.1
ANCHOR PLATE NUT FOR $\phi 23$		EACH	60
REINFORCING BAR		kg	672.2
		940.1	
		395.7	
TOTAL		2008.0	
SIDEWALK CONCRETE CLASS C ( $f_c = 240 \frac{kg}{cm^2}$ )	m <sup>3</sup>	10.5	
BRIDGE RAILING AND DUCT CONCRETE	m <sup>3</sup>	4.9	
FORMS	m <sup>2</sup>	45.3	
MORTAR WITH SLOPE-PROTECTIVE MORTAR DRAINAGE	m <sup>3</sup>	8.4	
ELASTOMERIC BEARING PADS	EACH	4	
		4	
		4	

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NEW RAILWAY LINE FOR CENKARENG AIRPORT CONSTRUCTION PROJECT

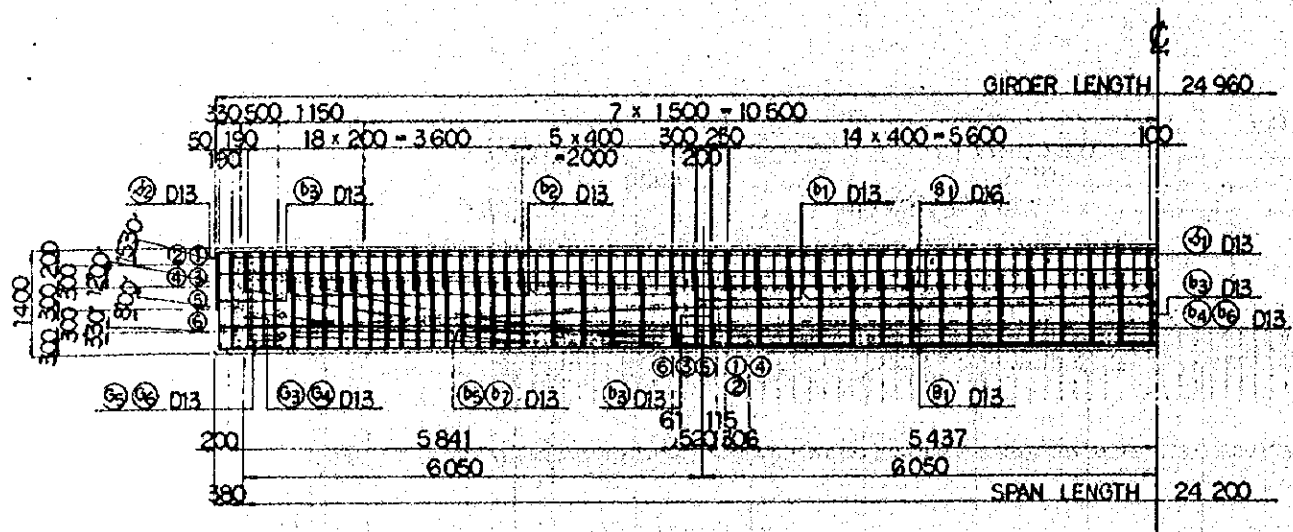
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
B	1 AUG '84	M.Y.A.O.	K.K.K.M.			
A	15 FEB '84	M.Y.A.O.	K.K.K.M.			

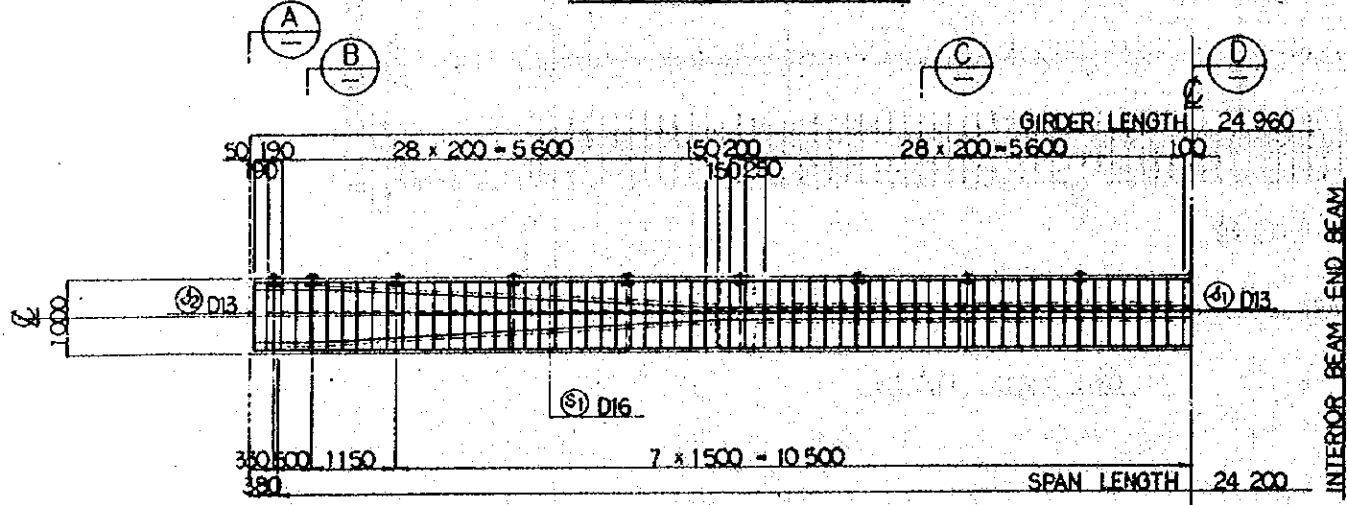
P.C. GIRDER  
 PC 04  
 GENERAL VIEW

PACKAGE: 1 CIVIL AND ARCHITECTURAL WORK

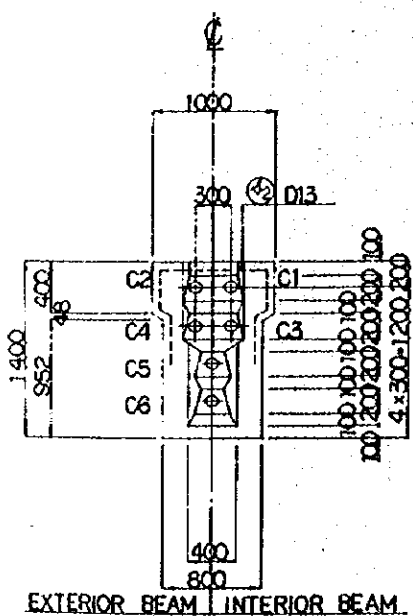
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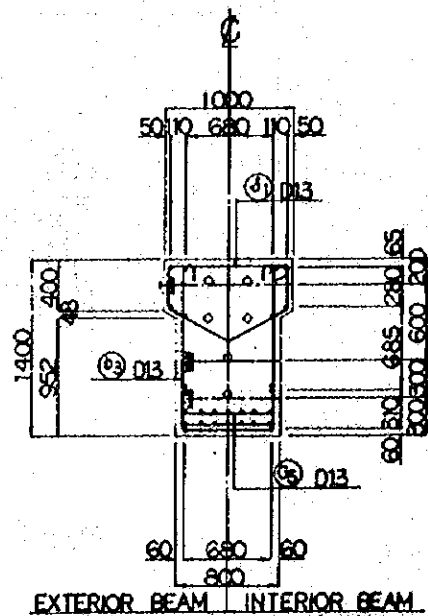
SIDE VIEW SCALE 1:50



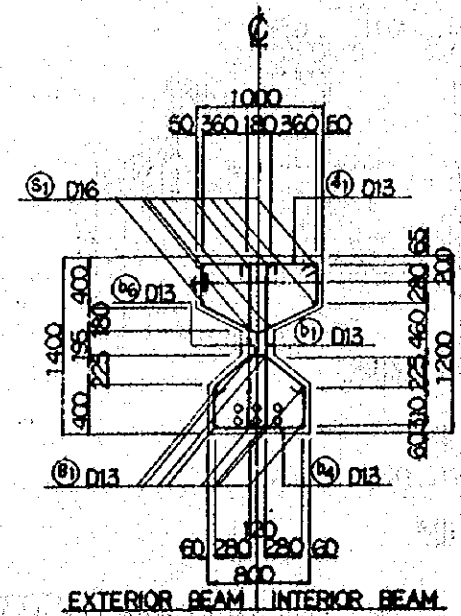
PLAN SCALE 1:50



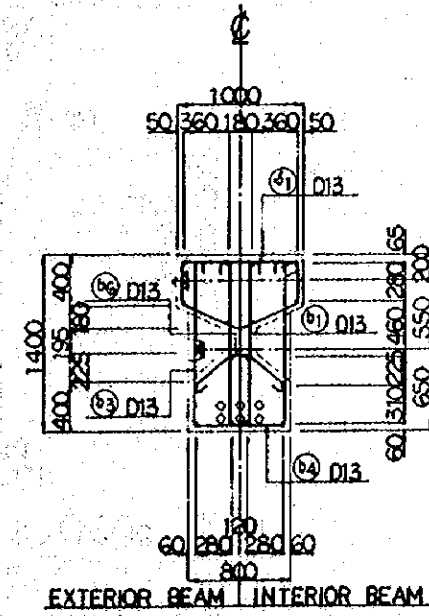
SECTION A



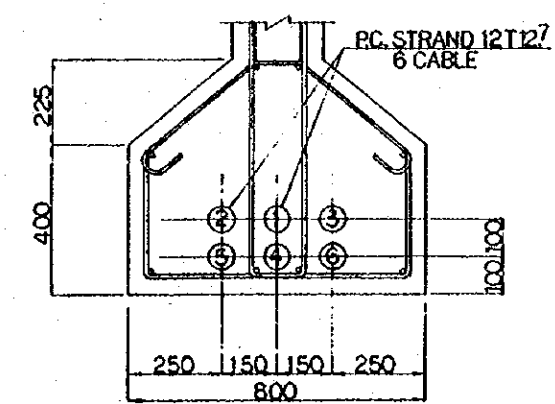
SECTION B



SECTION C



SECTION D



ARRANGEMENT OF PC CABLE SCALE 1:10

BENDING SCHEDULE OF PC CABLES

CABLE No	L1(m)	L2(m)	L2'(m)	L3(m)	h1(m)	h2(m)	Σ L(m)	β	ANGLE θ
①	5.743	5.937	5.863	0.625	0.813	0.167	12.305	0.02366	15°30'
②	5.743	5.937	5.863	0.625	0.813	0.167	12.305	0.02366	15°30'
③	6.378	6.256	6.217	0.625	0.555	0.130	12.259	0.02037	12°00'
④	5.437	6.204	6.158	0.625	0.655	0.130	12.266	0.01726	12°00'
⑤	5.858	5.748	5.729	0.625	0.403	0.097	12.231	0.01227	8°00'
⑥	6.439	5.148	5.142	0.625	0.157	0.039	12.209	0.00595	3°30'

SCHEDULE OF PC BAR

SLAB	(mm)
CROSS BEAM	4 600
	4 220

- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERES UNLESS OTHERWISE INDICATED
  - REINFORCEMENT OF ANCHORAGE AND RECESS DIMENSION ARE EXAMPLES AND THESE SHALL BE REVIEWED AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS FOR THE SELECTED PRESTRESSING SYSTEM
  - JACKING LOAD INCLUDE FRICTION IN THE JACK AND ANCHORAGE. EXTENSION SHOWS TOTAL VALUE OF THOSE AT BOTH ENDS MEASURED AT THE POINT 30CM OUTSIDE FROM ANCHORAGE SURFACE. AFTER THE PRESTRESSING SYSTEM IS DETERMINED THESE VALUES SHALL BE REVIEWED ALONG WITH THE OTHER ASSUMED FACTORS AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. INITIAL STRESS DO NOT INCLUDE OTHER FACTORS THAN FRICTION LOSSES.
  - TENSIONING SEQUENCE OF LATERAL PC BARS SHALL BE AT EVERY OTHER BAR

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NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

B	1 AUG '84	MY	AK	KM	AK
A	15 FEB '84	MY	AK	KM	AK

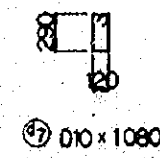
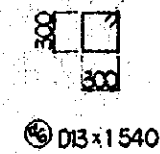
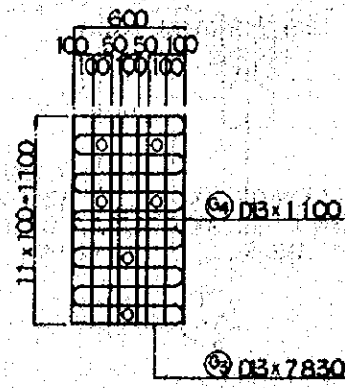
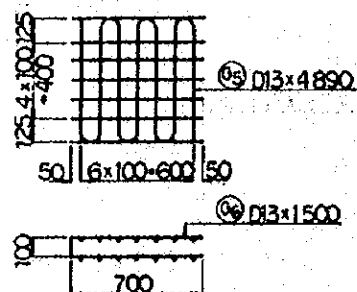
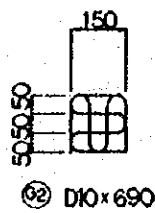
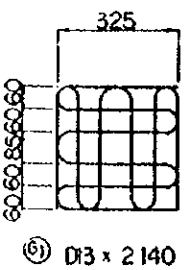
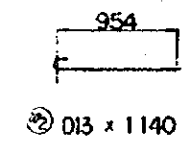
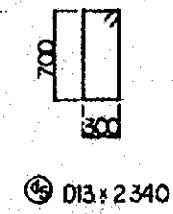
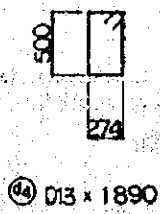
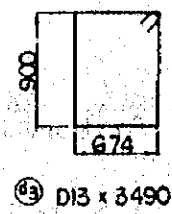
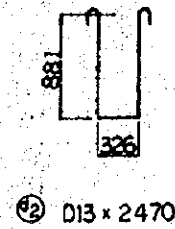
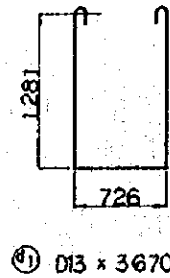
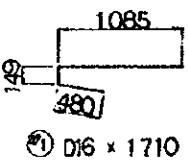
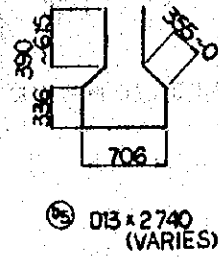
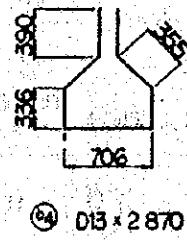
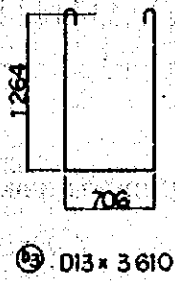
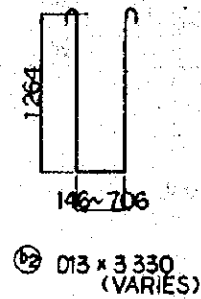
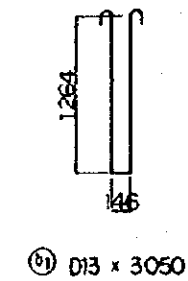
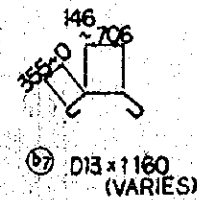
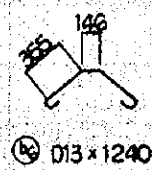
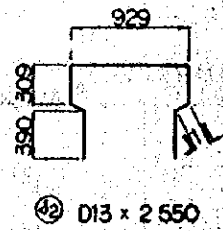
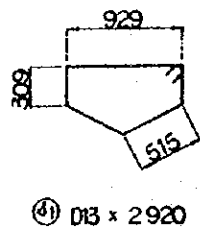
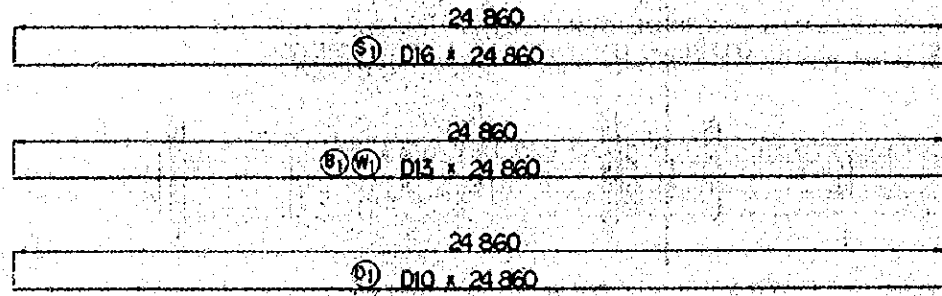
REVISIONS DATE DESIGNED DRAWN CHECKED EXTENDED SUBMITTED

P.C. GIRDER  
 PC 04  
 PC. CABLE AND REINF. BAR  
 ARRANGEMENT OF MAIN BEAM

PACKAGE: I CIVIL AND ARCHITECTURAL WORK  
 SCALE AS NOTED DRAWING NO. CS-030



NOTE:  
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED



BAR SCHEDULE

REINFI NO	DIA (mm)	LENGTH (mm)	NUMBER / ONE BEAM EXTERIOR	NUMBER / ONE BEAM INTERIOR	TOTAL NUMBER	UWEIGHT (kg/m)	WEIGHT (kg)	
<b>MAIN BEAM</b>								
S 1	D16	24.860	8	8	32	1.560	1241.0	
A 1	D13	2.920	124	124	496	0.995	1441.1	
		2.550	2	2	8	.	20.3	
B 1	D13	24.860	8	8	32	0.995	791.5	
b 1	D13	3.050	34	34	136	0.995	412.7	
		3.330	42	42	168	.	556.6	
		3.610	16	16	64	.	229.9	
		2.870	34	34	136	.	388.4	
		2.740	42	42	168	.	458.0	
		1.240	34	34	136	.	167.8	
		1.160	42	42	168	.	193.9	
G 1	D13	2.140	24	24	96	0.995	204.4	
		D10	690	60	—	120	0.560	46.4
		D13	7.830	4	4	16	0.995	124.7
		.	1.100	32	32	128	.	140.1
		.	4.890	4	4	16	.	77.8
		.	1.500	14	14	56	.	83.6

WEIGHT OF BARS FOR MAIN BEAM

D16	1241.0 kg
D13	5290.8 kg
D10	46.4 kg
<b>TOTAL WEIGHT</b>	<b>6578.2 kg</b>

LATERAL JOINT

W 1	D13	24.860	—	—	16	0.995	395.8
W 1	D16	1.710	—	—	252	1.560	672.2
		D13	1.140	—	—	252	0.995
D 1	D10	24.860	—	—	12	0.560	167.1
d 1	D13	3.670	—	—	6	0.995	21.9
		2.470	—	—	9	.	22.1
		3.490	—	—	12	.	41.7
		1.890	—	—	18	.	33.8
		2.340	—	—	36	.	83.8
		1.540	—	—	36	.	55.2
		D10	1.080	—	—	378	0.560

WEIGHT OF BARS FOR LATERAL JOINT

D16	672.2 kg
D13	940.1 kg
D10	395.7 kg
<b>TOTAL WEIGHT</b>	<b>2008.0 kg</b>

TOTAL WEIGHT OF BARS

D16	1913.2 kg
D13	6230.9 kg
D10	442.1 kg
<b>TOTAL WEIGHT</b>	<b>8586.2 kg</b>

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NEW RAILWAY LINE FOR CENGKARENG AIRPORT  
CONSTRUCTION PROJECT

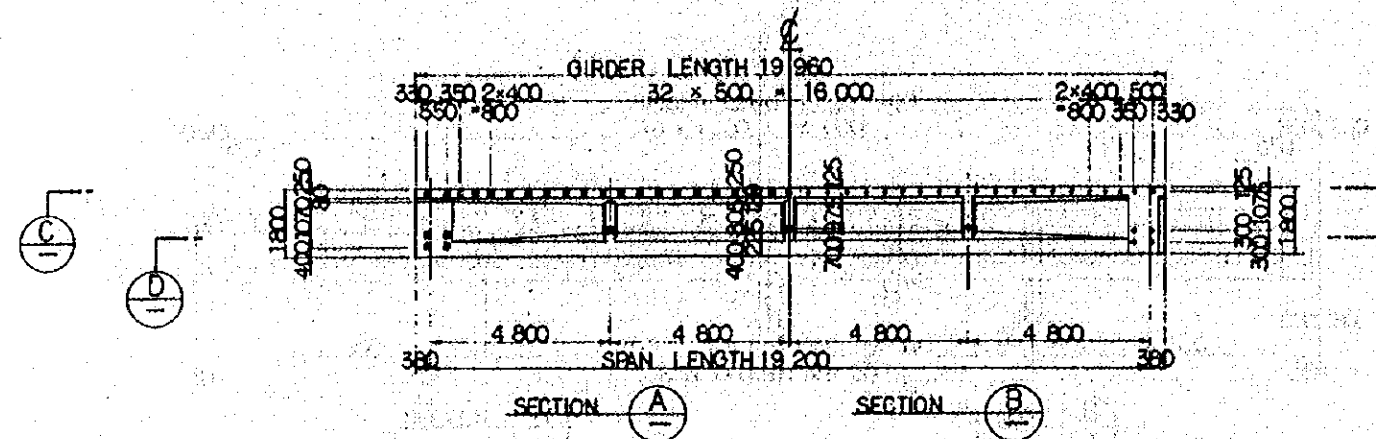
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

B	1AUG/84	MY	AO	KA	KM	AK
A	15FEB/84	MY	AO	KA	KM	AK
REVISION	DATE	DESIGNED	CHECKED	APPROVED	REVIEWED	SUBMITTED

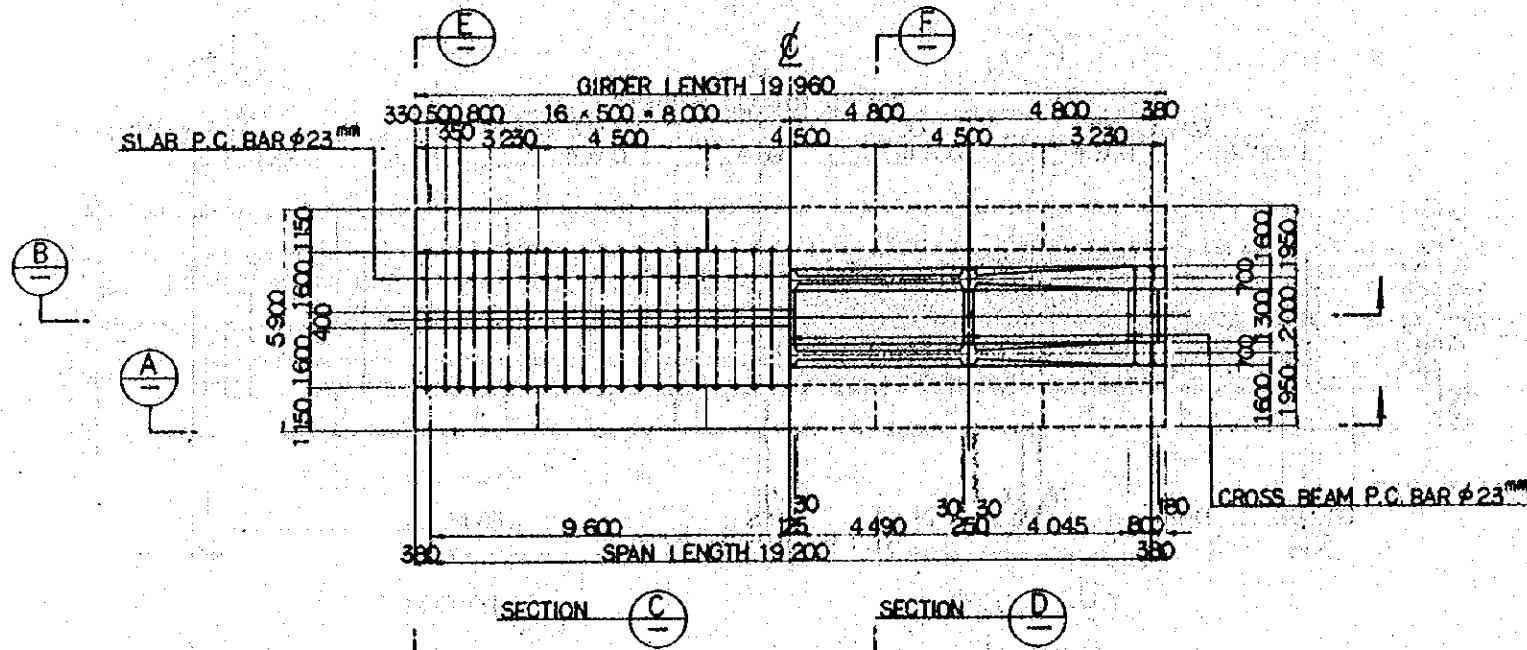
P.C. GIRDER  
PC 04  
REINF. BAR SCHEDULE

PACKAGE: I CIVIL AND ARCHITECTURAL WORK  
SCALE: AS NOTED  
DRAWING No: CS - 032

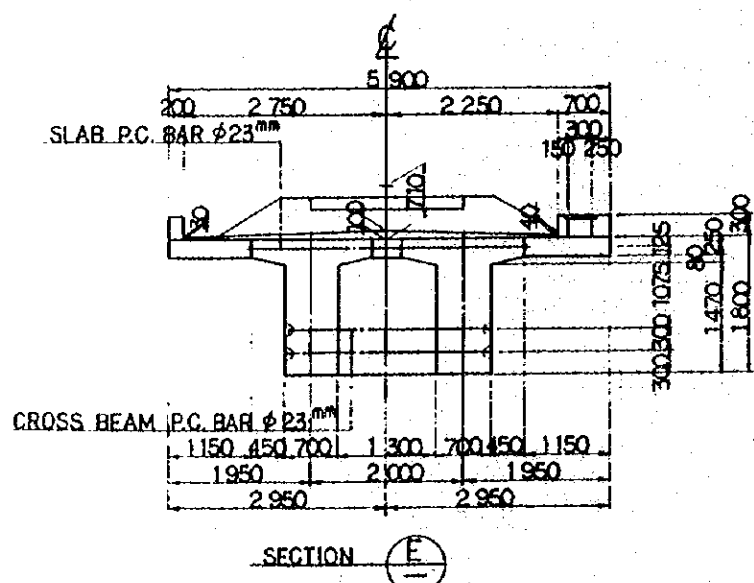




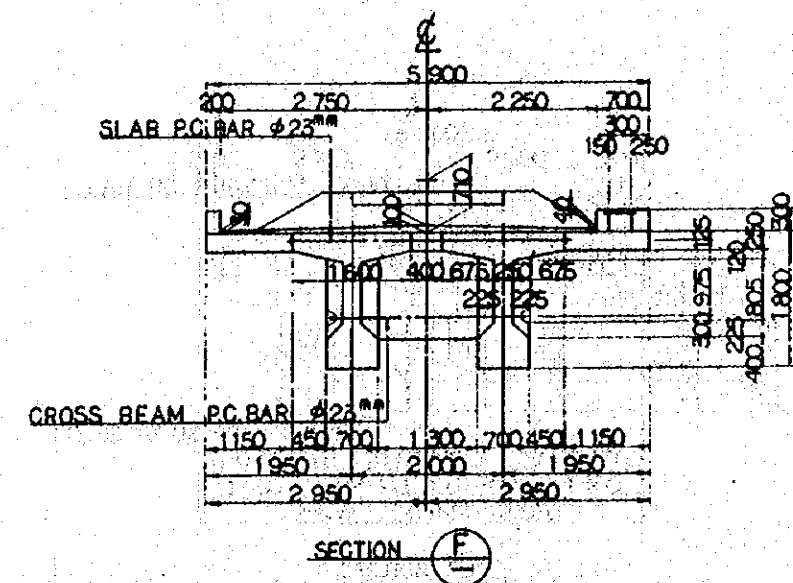
SIDE VIEW SCALE 1:100



PLAN SCALE 1:100



SECTION E



SECTION F

CROSS SECTION SCALE 1:50

- NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  2. MAIN BEAM SHALL BE PRECAST AND ALL THE OTHER CONCRETE EXCEPT R.C. COVER SHALL BE CAST IN PLACE
  3. P.C. STRAND 12T 12.7 MEANS A GROUP OF 12 NO STRANDS FOR PRESTRESSED CONCRETE OF 12.7 MM DIAMETER EACH AND SHALL CONFORM TO JIS G 3536 SWPR7B 12T 12.7 OR EQUIVALENT
  4. P.C. BAR SHALL CONFORM TO THE REQUIREMENTS AS FOLLOWS:  
 MINIMUM ULTIMATE TENSILE STRENGTH : 190 kg/mm<sup>2</sup>  
 MINIMUM YIELD STRESS : 160 kg/mm<sup>2</sup>
  5. THIS DRAWING SHALL BE APPLIED TO  
 : B01 - PC01  
 : B03 - PC07  
 : B03 - PC08  
 : B03 - PC09  
 : B03 - PC11
  6. DESIGN TRAIN LOAD: EQUIVALENT TO  
 KS - 16

SUPERSTRUCTURE MATERIAL SCHEDULE (B03-PC05)

ITEM	TYPE	UNIT	QUANTITY
MAIN BEAM	CONCRETE CLASS A (f <sub>c</sub> = 400 kg/cm <sup>2</sup> )	m <sup>3</sup>	49.7
	P.C. STRAND 12T 12.7 (f <sub>s</sub> = 190 kg/mm <sup>2</sup> )	kg	1960.4
	SHEATH φ65 and φ70	m	195.5
	FORMS	m <sup>2</sup>	227.0
	ANCHORING DEVICE FOR 12 T 12.7	EACH	20
	REINFORCING BAR	kg	557.2
	16	•	3029.6
	13	•	74.2
	10	•	3661.0
	TOTAL	•	3661.0
LATERAL JOINT	CONCRETE CLASS B (f <sub>c</sub> = 300 kg/cm <sup>2</sup> )	m <sup>3</sup>	6.3
	P.C. BAR φ23 (f <sub>s</sub> = 110 kg/mm <sup>2</sup> )	kg	601.7
	SHEATH φ35	m	125.3
	FORMS	m <sup>2</sup>	27.0
	ANCHOR PLATE, NUT FOR φ23	EACH	104
REINFORCING BAR	kg	757.4	
16	•	1537.4	
13	•	66.7	
10	•	2361.5	
TOTAL	•	2361.5	
SIDEWALK CONCRETE	CLASS C (f <sub>c</sub> = 240 kg/cm <sup>2</sup> )	m <sup>3</sup>	11.5
BRIDGE RAILING AND DUCT CONCRETE	FORMS	m <sup>3</sup>	3.9
FORMS	m <sup>2</sup>	36.3	
MORTAR WITH SLOPE PROTECTIVE MORTAR DRAINAGE	m <sup>3</sup>	6.7	
ELASTOMERIC BEARING PADS	FIX. FOR R=140 (cm)	•	2
MOV. FOR R=140 (cm)	•	2	

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 DIRECTORATE GENERAL OF LAND TRANSPORT AND INLAND WATERWAYS

NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

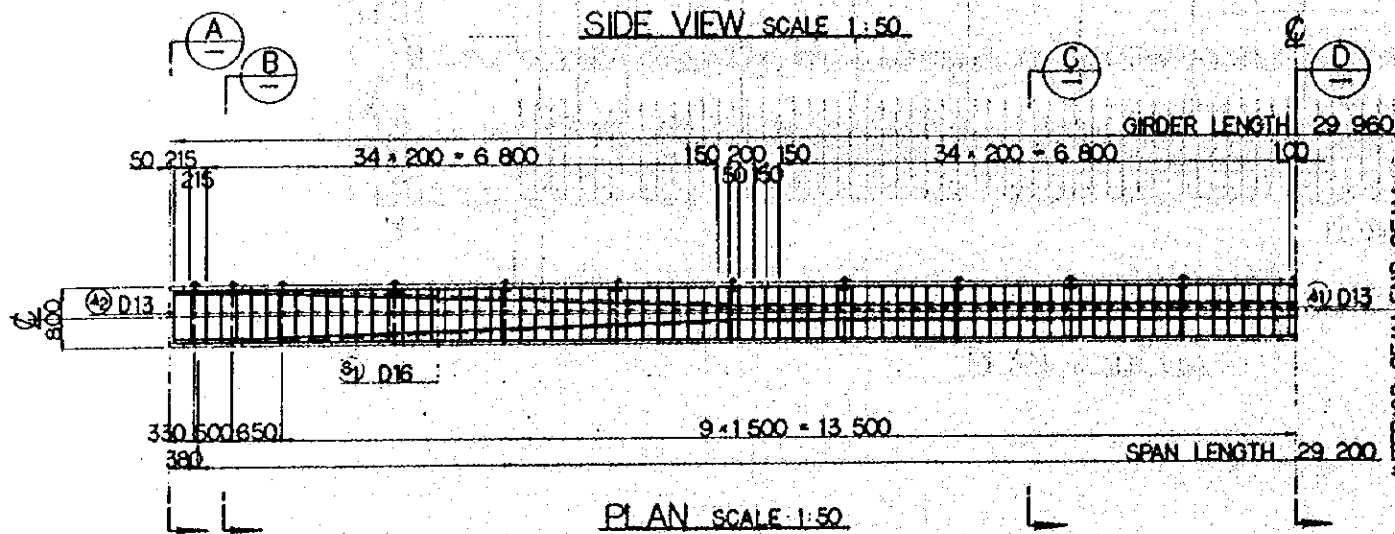
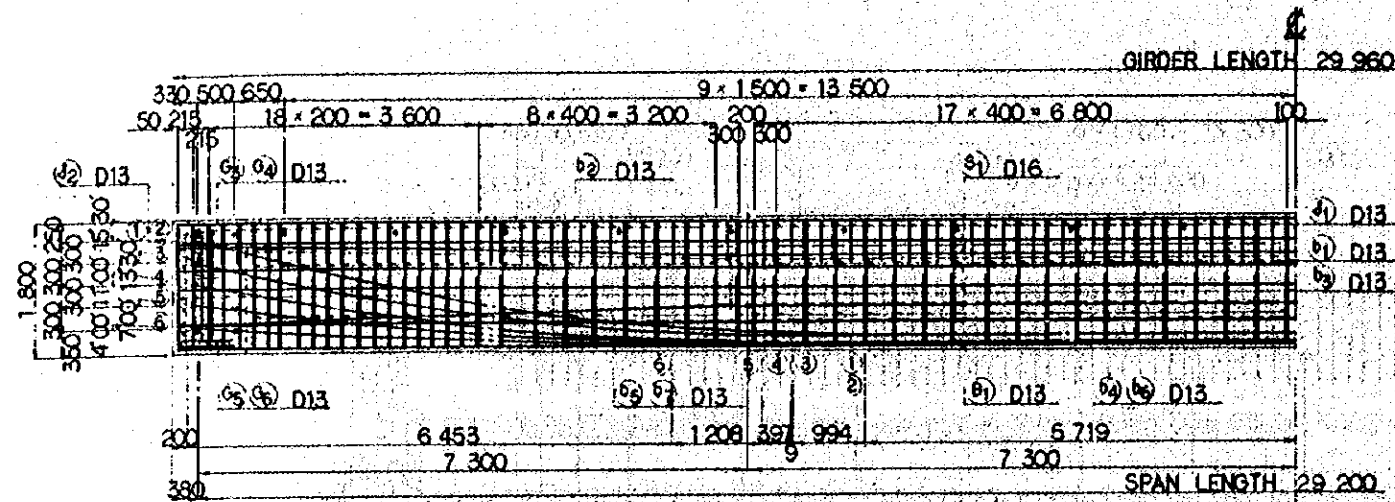
REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED	SUBMITTED
B	1 AUG 84	MYAO	K.A.H.M.	M.K.		
A	15 FEB 84	MYAO	K.A.H.M.	M.K.		

P.C. GIRDER  
 PC 05  
 GENERAL VIEW

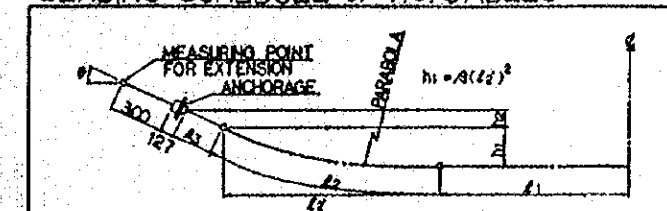
PACKAGE: I CIVIL AND ARCHITECTURAL WORK

SCALE: AS NOTED DRAWING NO: CS - 033



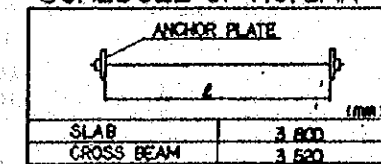


BENDING SCHEDULE OF PC CABLES

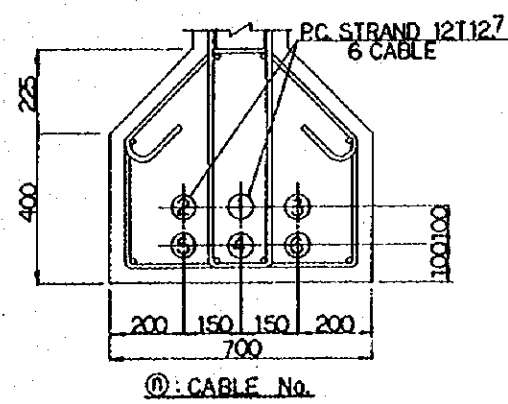
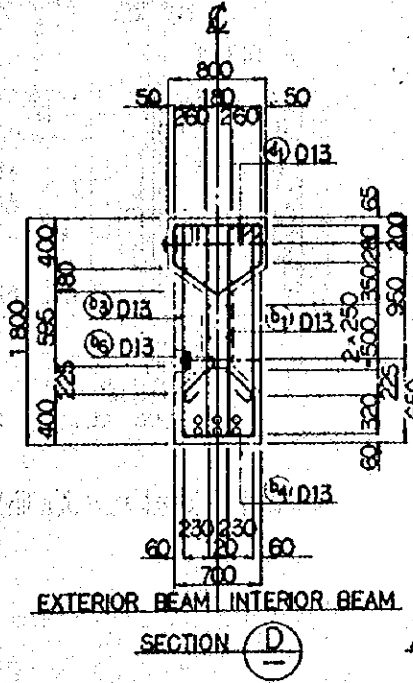
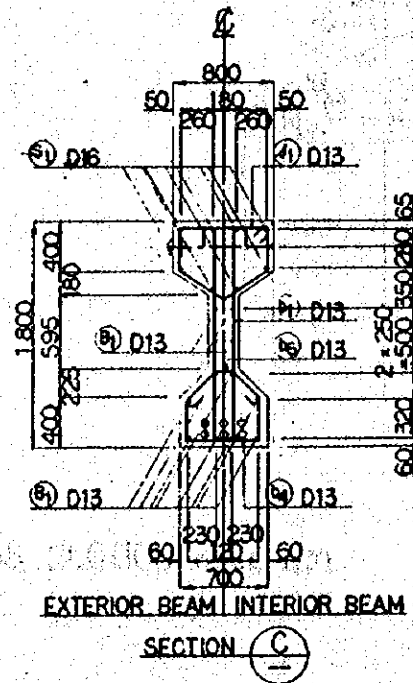
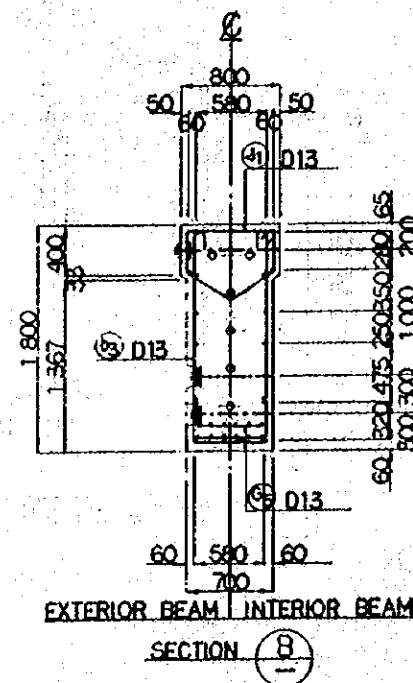
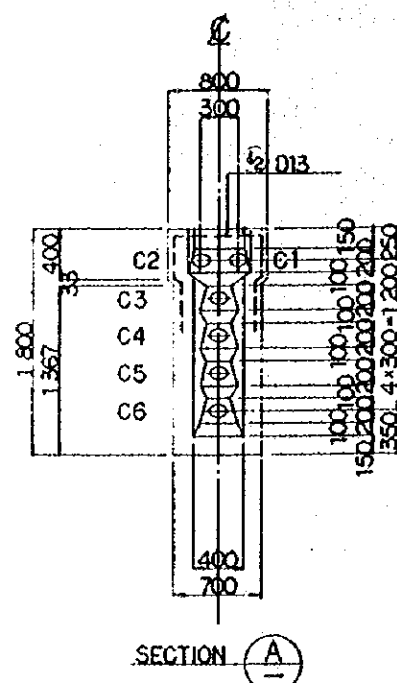


CABLE No	L1(m)	L2(m)	L3(m)	L4(m)	h1(m)	h2(m)	L(m)	β	ANGLE θ
①	5.719	8.493	8.287	0.625	1.163	0.167	14.887	0.0663	15° 30'
②	5.719	8.493	8.287	0.625	1.163	0.167	14.887	0.0663	15° 30'
③	6.713	7.454	7.385	0.625	0.887	0.146	14.794	0.0625	13° 30'
④	6.722	7.417	7.371	0.625	0.716	0.119	14.764	0.0319	11° 00'
⑤	7.119	6.987	6.967	0.625	0.459	0.082	14.731	0.0094	7° 30'
⑥	8.327	5.759	5.755	0.625	0.201	0.043	14.711	0.0009	4° 00'

SCHEDULE OF PC BAR



- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - REINFORCEMENT OF ANCHORAGE AND RECESS DIMENSION ARE EXAMPLES AND THESE SHALL BE REVIEWED AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS FOR THE SELECTED PRESTRESSING SYSTEM
  - JACKING LOAD INCLUDE FRICTION IN THE JACK AND ANCHORAGE. EXTENSION SHOWS TOTAL VALUE OF THOSE AT BOTH ENDS MEASURED AT THE POINT 30CM OUTSIDE FROM ANCHORAGE SURFACE. AFTER THE PRESTRESSING SYSTEM IS DETERMINED THESE VALUES SHALL BE REVIEWED ALONG WITH THE OTHER ASSUMED FACTORS AND, IF NECESSARY, BE ADJUSTED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. INITIAL STRESS DO NOT INCLUDE OTHER FACTORS THAN FRICTION LOSSES.
  - TENSIONING SEQUENCE OF LATERAL PC BARS SHALL BE AT EVERY OTHER BAR



CROSS SECTION SCALE 1:30

ARRANGEMENT OF PC CABLE SCALE 1:10

REPUBLIC OF INDONESIA  
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NEW RAILWAY LINE FOR CENGKARENG AIRPORT CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

B	1AUG84	NY	AD	KR	UM	mk
A	15FEB/81	NY	AD	KR	UM	mk

PC GIRDER  
 PC 06  
 PC CABLE AND REINF BAR  
 ARRANGEMENT OF MAIN BEAM

PACKAGE: 1 CIVIL AND ARCHITECTURAL WORK  
 SCALE: AS NOTED  
 DRAWING NO: CS - 035