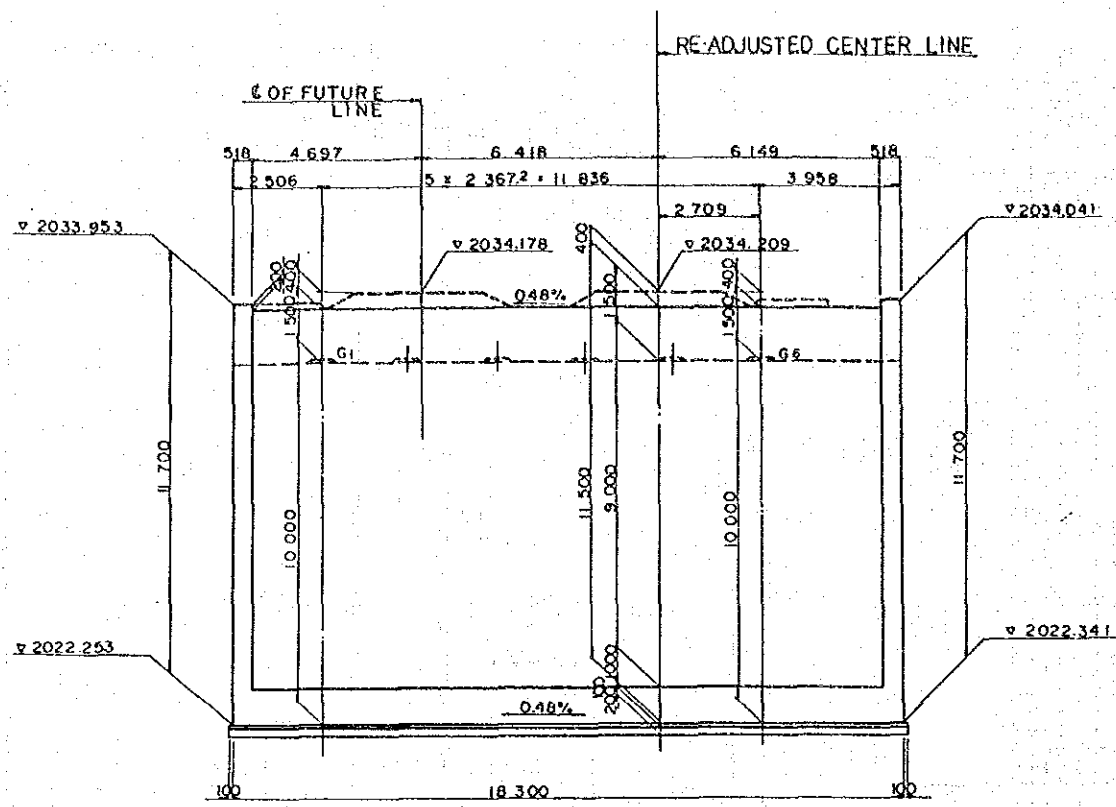
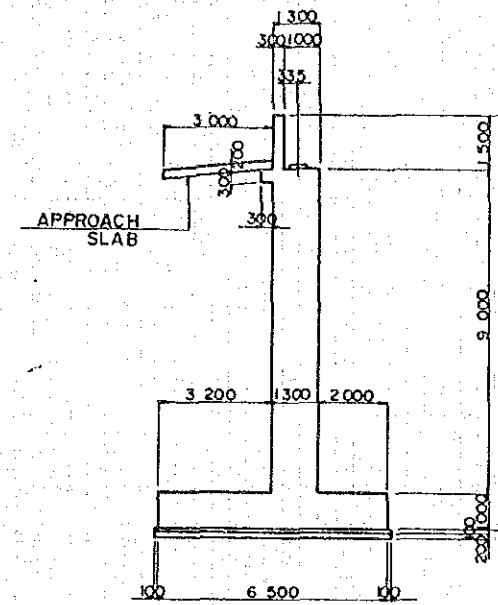


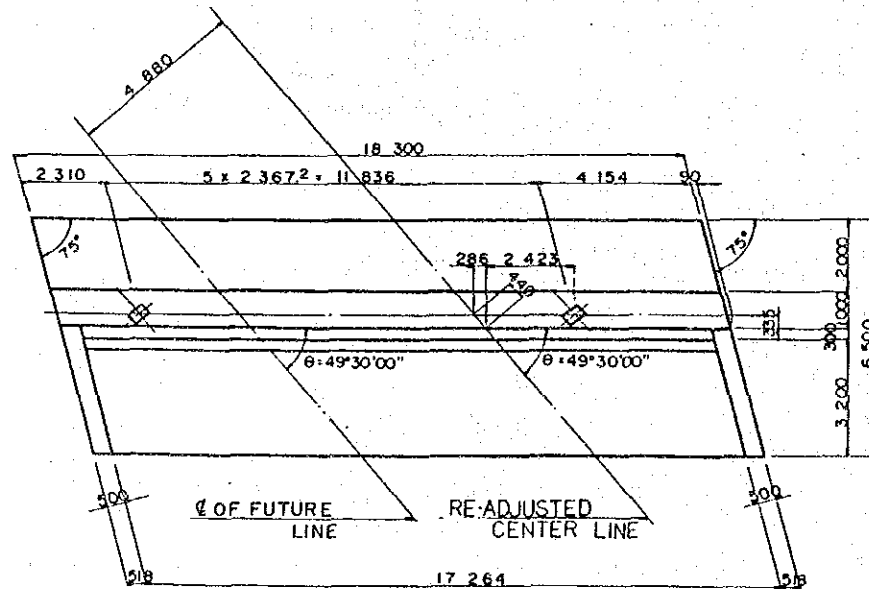
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 LOCATION BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
 M.O.P.W. ROADS DEPT DRG NO. \_\_\_\_\_



FRONT VIEW



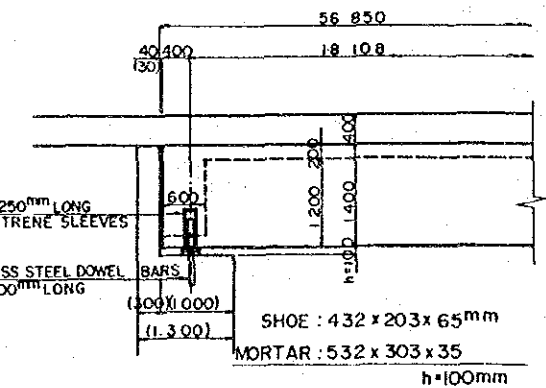
SIDE VIEW



PLAN - A1 ABUTMENT

Height	Girder No					
	G1	G2	G3	G4	G5	G6
Proportion	2034.165	2034.176	2034.188	2034.199	2034.210	2034.222
Structure	Ballast	400				400
	Girder	1400				1400
	Shoe	65				65
	Mortar	35	35	35	35	35
Total	1900	1900	1900	1900	1900	1900
Pedestal face	2032.265	2032.276	2032.288	2032.299	2032.310	2032.322

A1 - ABUTMENT



ABUTMENT (MOV)

- NOTES:
- JOINT FILLER SHOULD BE 50mm THICK FLEX CELL OR SIMILAR APPROVED LOW COMPRESSION MATERIAL.
  - JOINT SEALANT SHOULD BE THIOFLEX 600 OR SIMILAR APPROVED POLYURETHANE.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF Supt ENG (DESIGN)

SEN Supt. ENG (DESIGN)  
Supt ENGINEER (DESIGN)  
PROJECT ENGINEER

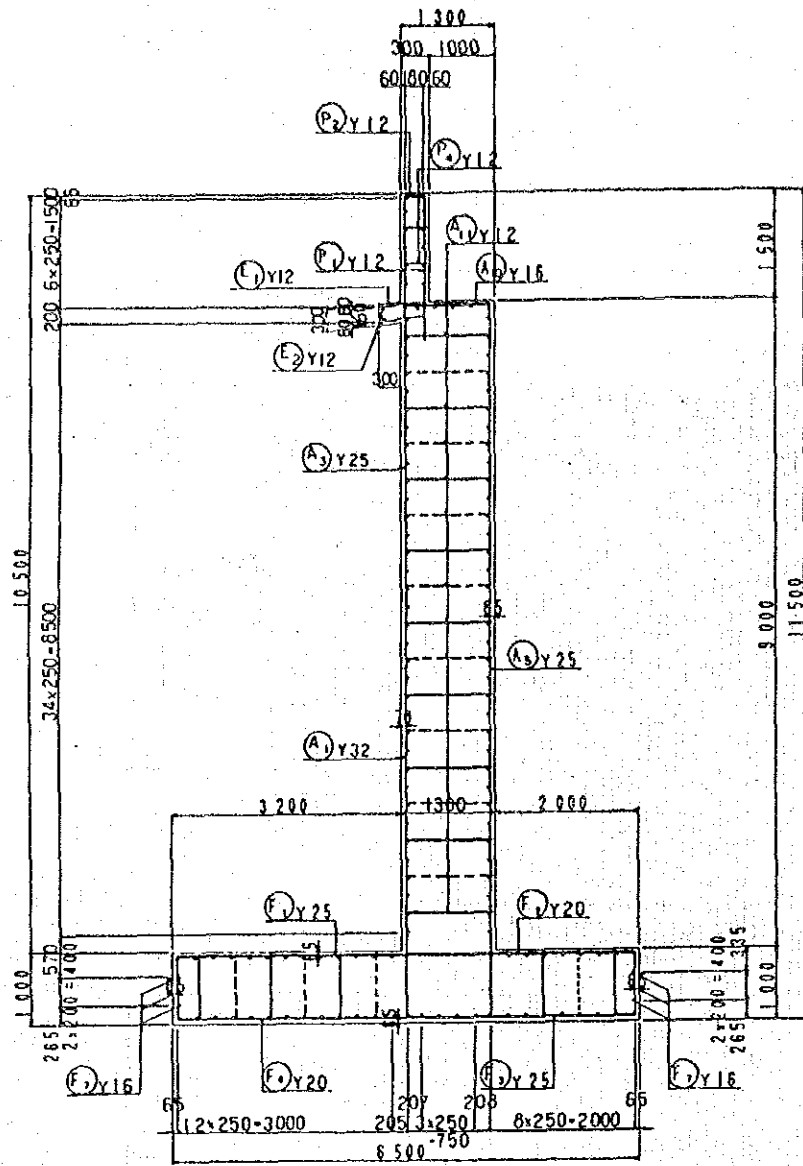
SCALES  
1:50 1:100

NAIROBI BYPASS  
RAILWAY BRIDGE  
ABUTMENTS (A1) (1)

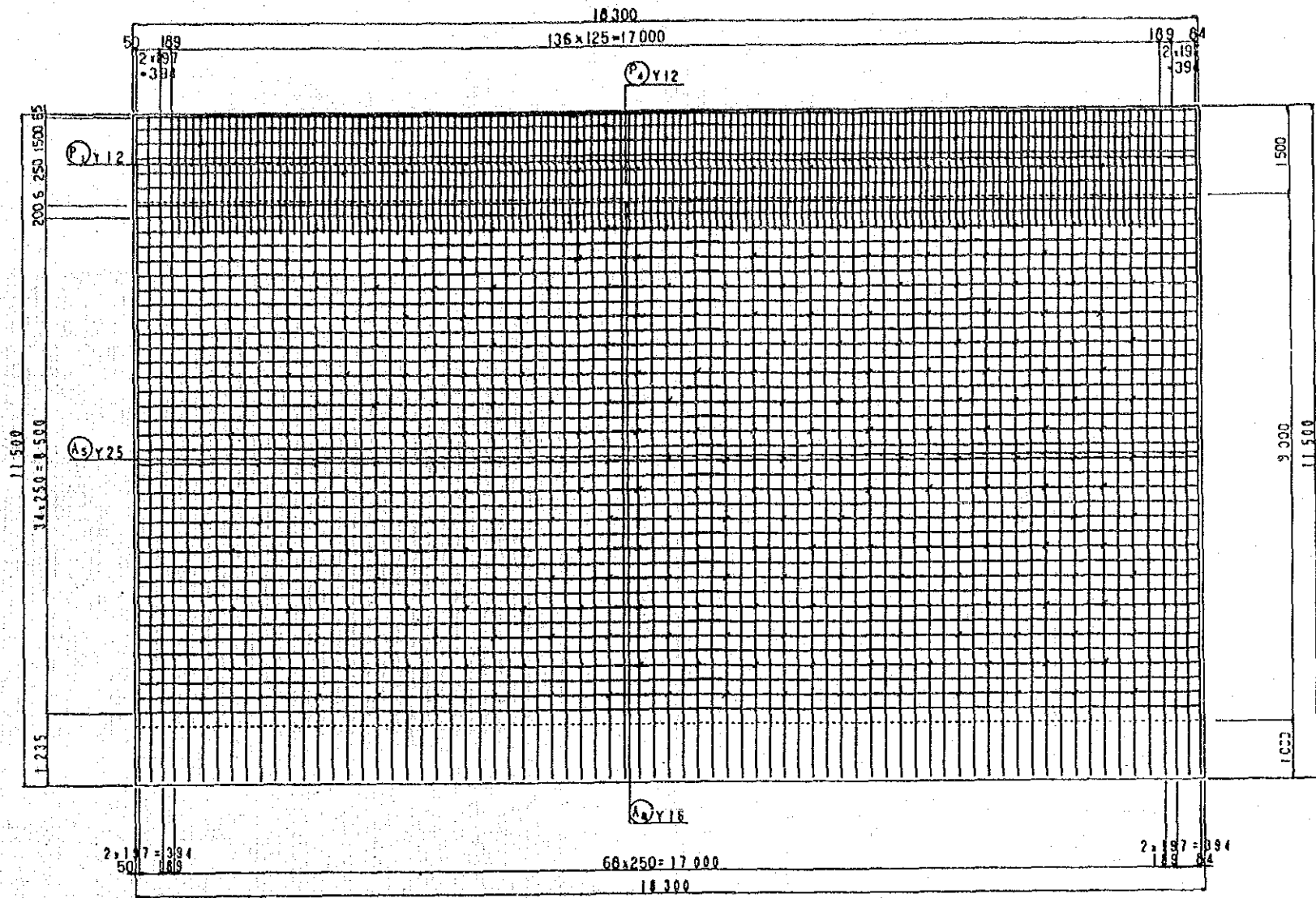
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SHEET 45 OF 75

SURVEYED BY  
 TRACED BY  
 CHECKED BY  
 AERIAL PHOTO BY  
 MAPPING BY  
 LOCATION BY

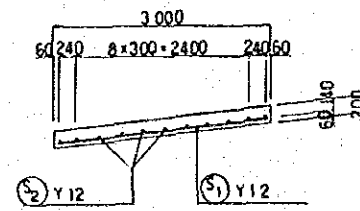
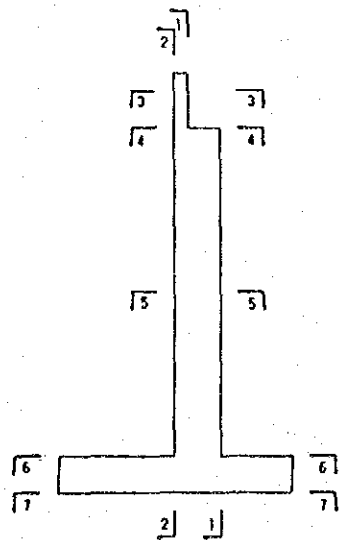
MOPW ROADS DEPT DRG NO



SECTION



1-1



APPROACH SLAB

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JAPAN INTERNATIONAL COOPERATION AGENCY

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 CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

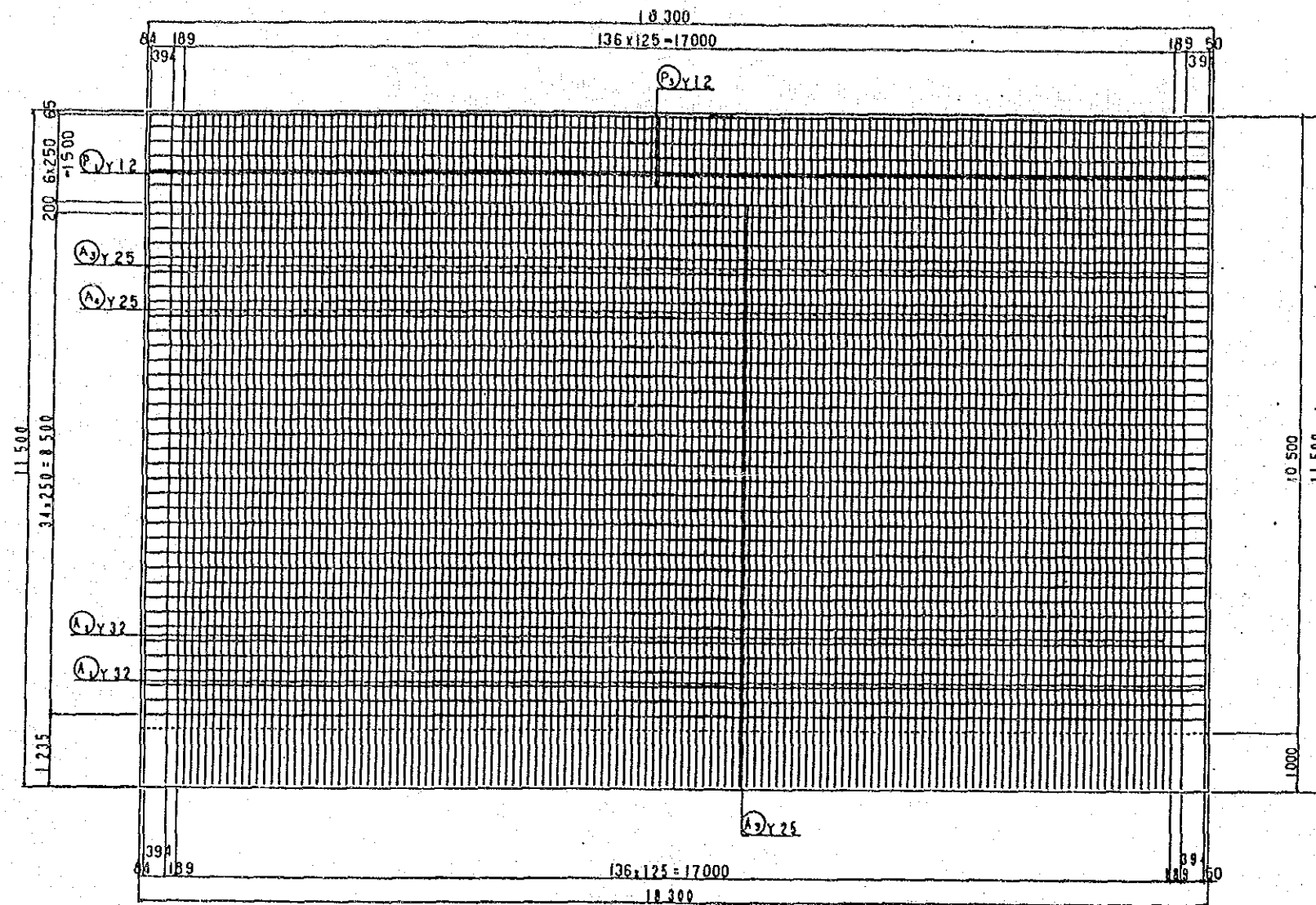
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NAIROBI BYPASS  
 RAILWAY BRIDGE  
 ABUTMENTS (A1) (2)

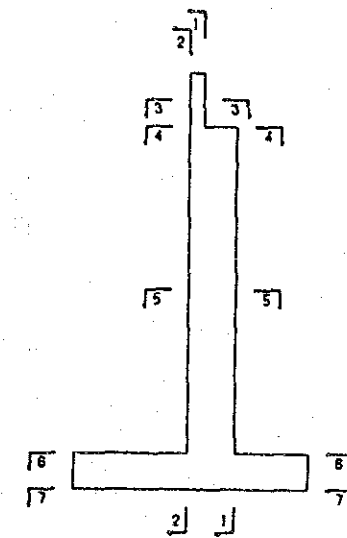
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 SHEET 46 OF 75

AERIAL PHOTO BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

MOPW ROADS DEPT DRG NO.



2 - 2



REVISIONS	
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JAPAN INTERNATIONAL  
COOPERATION AGENCY

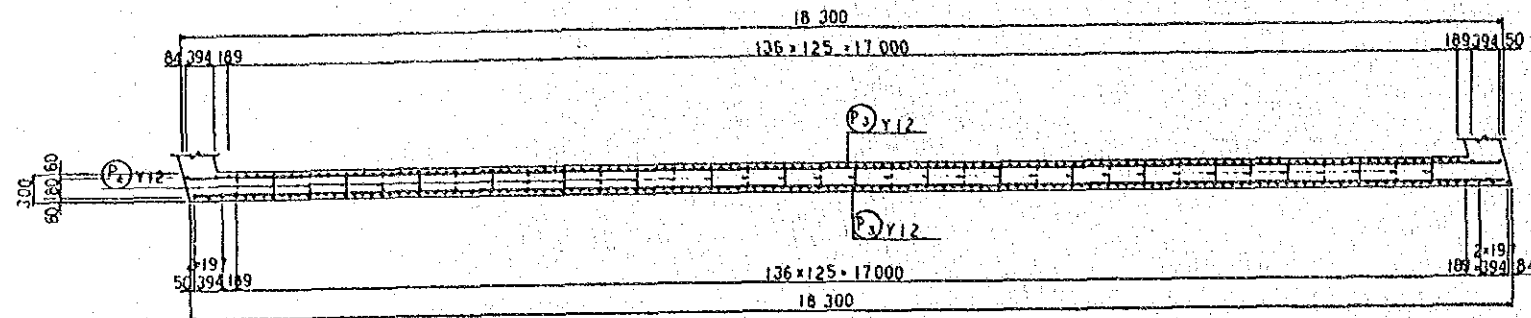
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CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

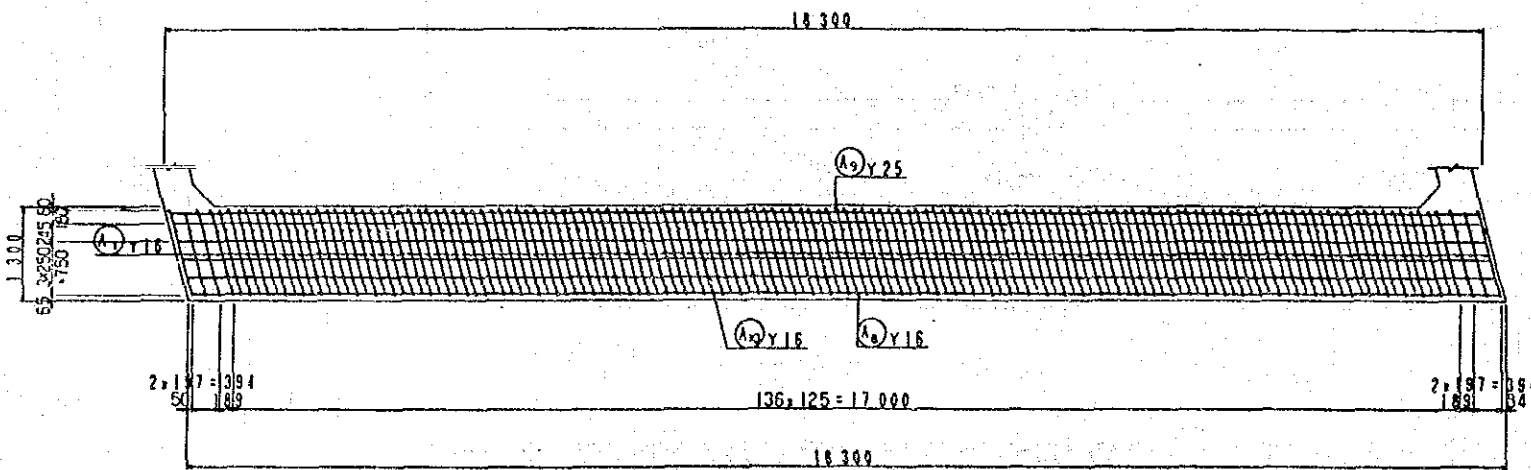
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NAIROBI BYPASS  
RAILWAY BRIDGE  
ABUTMENTS (A1) (1)

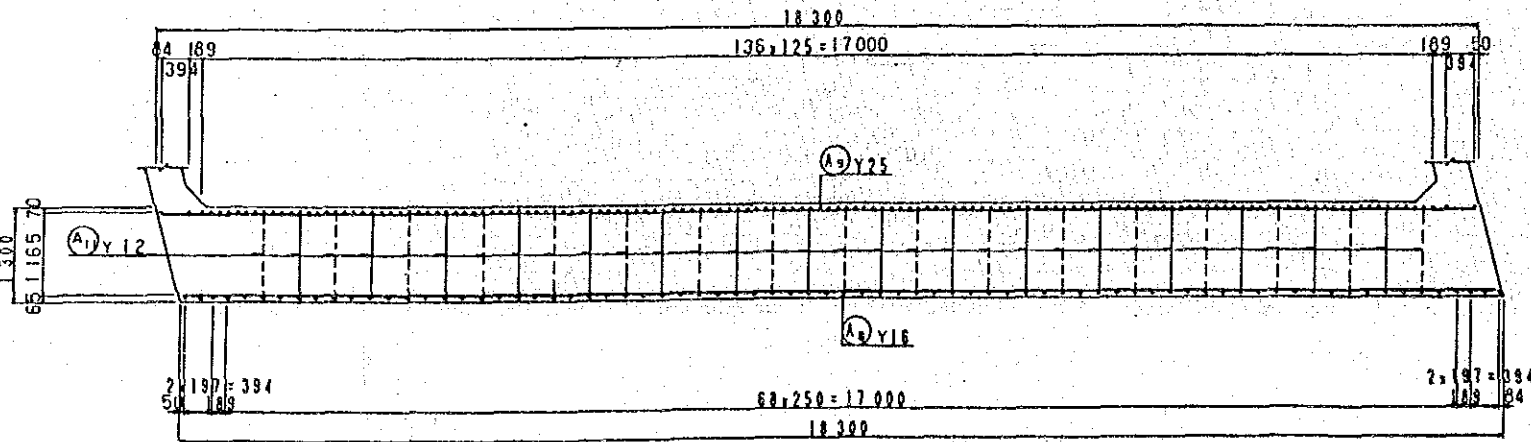
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SHEET 47 OF 75



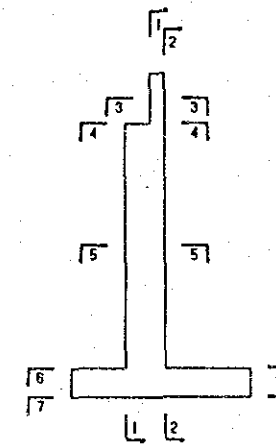
3 — 3



4 — 4



5 — 5



SURVEYED BY  
 MAPPING BY  
 LOCATION BY  
 TRACED BY  
 CHECKED BY

MOPW ROADS DEPT DRG NO

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
 COOPERATION AGENCY

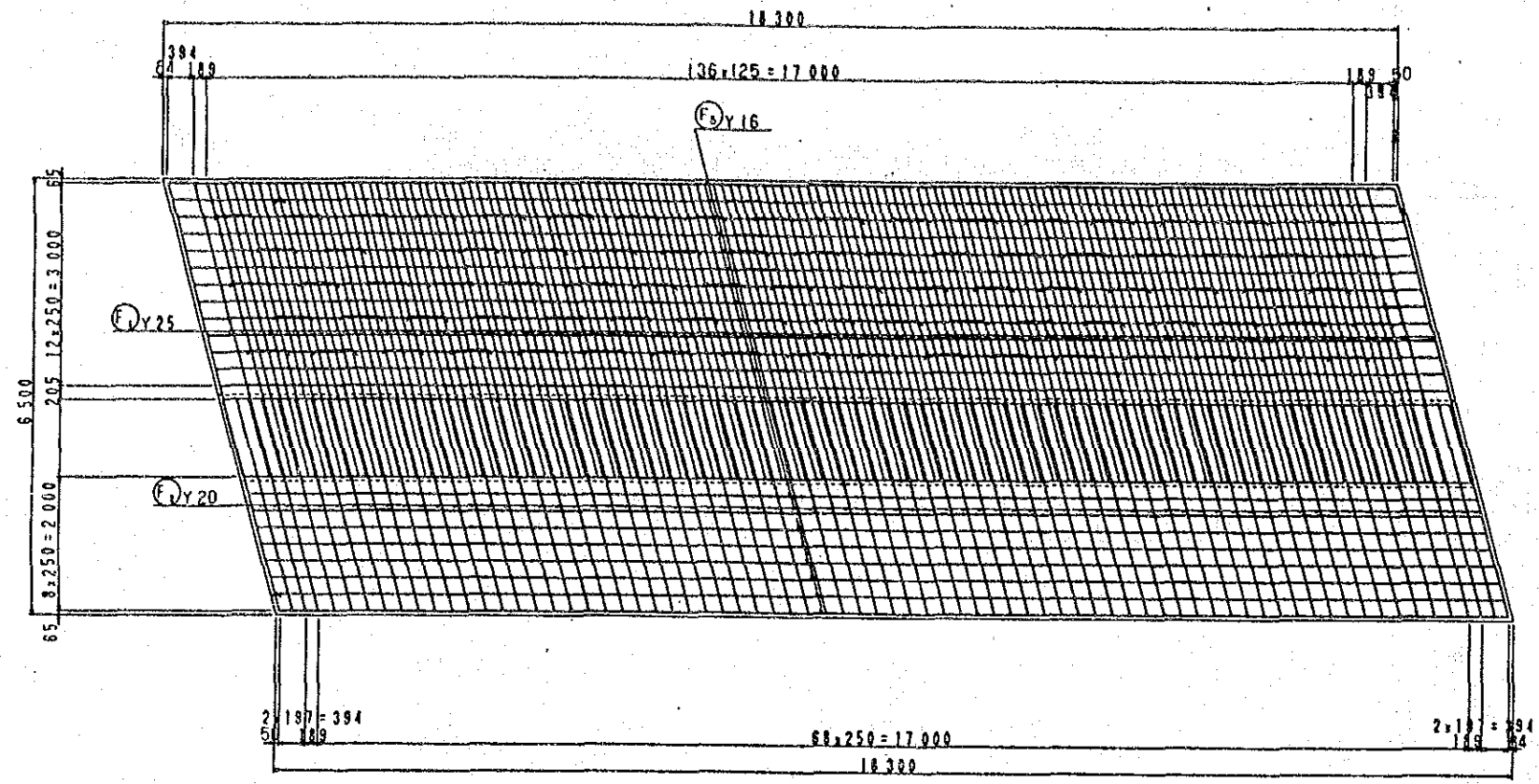
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 CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

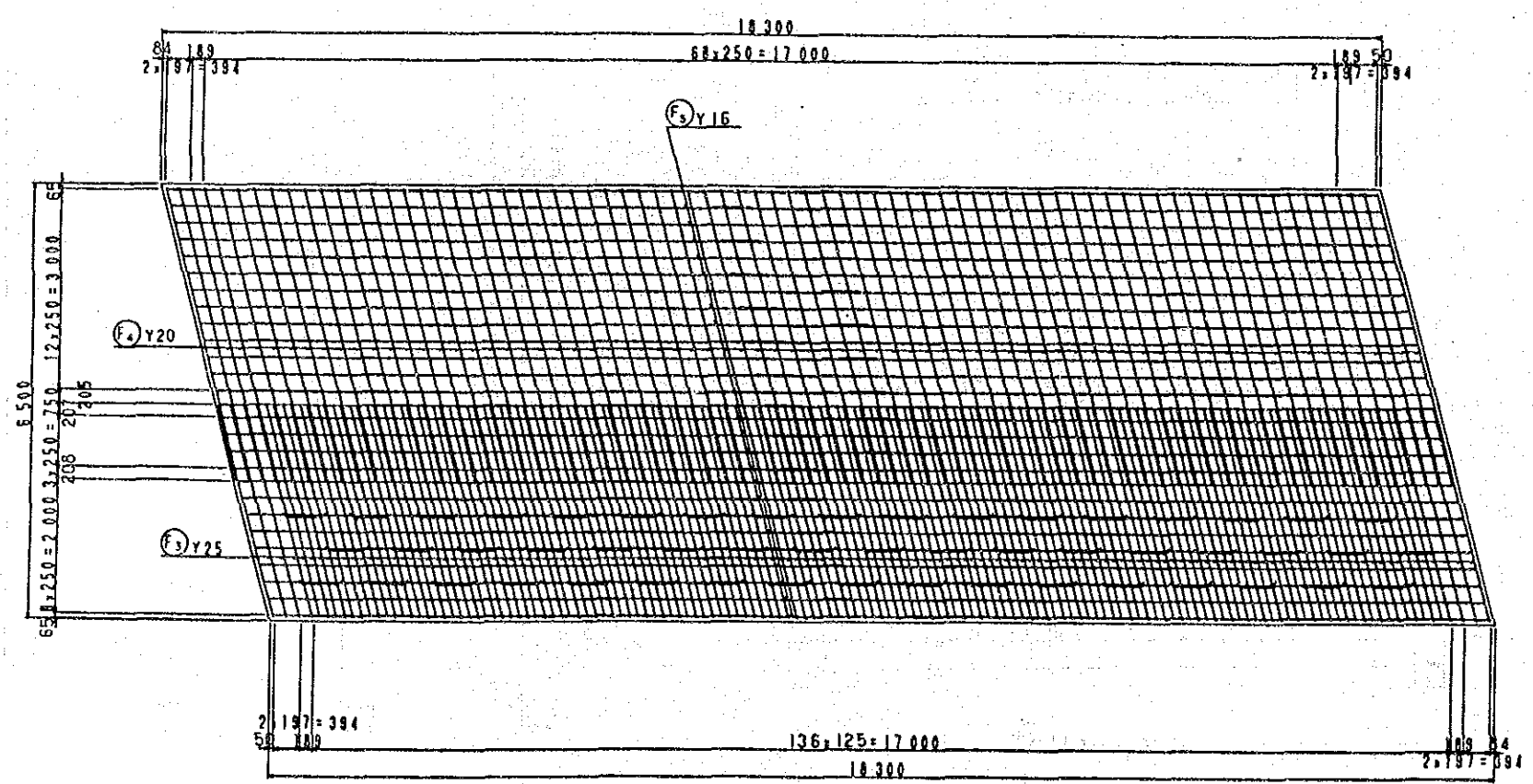
SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 ABUTMENTS (A1) (A2)

0  
 SHEET 48 OF 75



6 - 6



7 - 7

MOPW ROADS DEPT DRG NO.

AERIAL PHOTO BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

REVISIONS	
DESCRIPTION	DATE

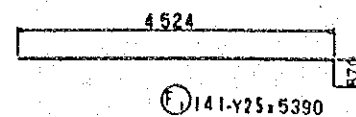
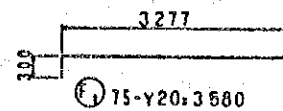
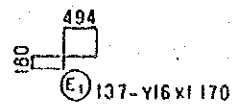
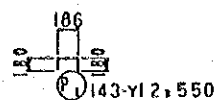
JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG (DESIGN)

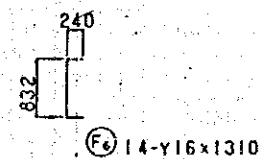
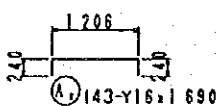
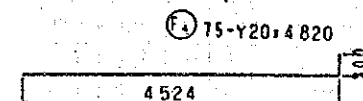
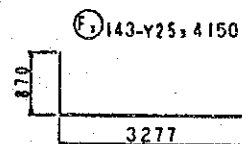
SEN SUPT. ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
DIMENSIONS (A1) (A)

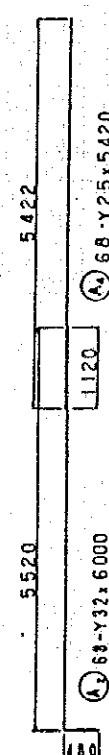
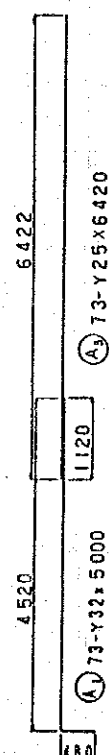
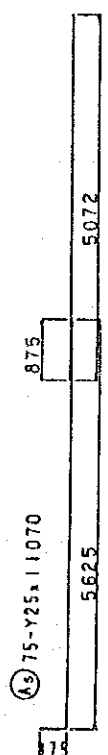
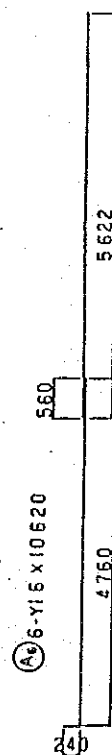


MARK	DIA	NUMBER	a	b	c	L
P.3	Y12	12	18 889	128	8 588	18 588
F.2	Y12	2	18 889	128	8 588	18 588
A.8	Y16	36	10 000	560	8 726	18 730
A.9	Y25	36	10 000	875	9 041	19 050
A10	Y16	4	10 000	560	8 726	18 730
F.5	Y16	50	10 000	560	8 726	18 730

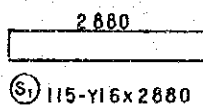


MARK	DIA	NUMBER	a	b	L
P.4	Y12	33	188	211	410
A11	Y12	281	188	1 287	1 418

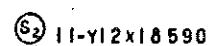
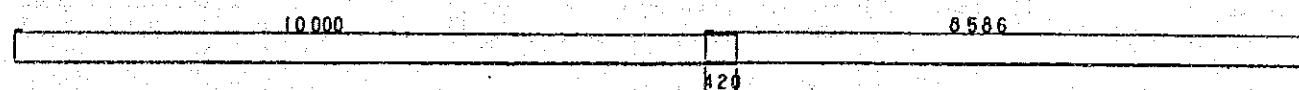
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 MAPPING BY \_\_\_\_\_ TRACED BY \_\_\_\_\_  
 LOCATION BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_



MARK	DIA	NUMBER	a	b	L
F.9	Y12	136	188	905	9 37
					2 550



MARK	DIA	NUMBER	a	b	c	d	e	f	L	
F.7	Y18	6	248	8 788	588	8 988	248	98	98	18 218
F.8	Y18	6	248	6 411	—	—	248	98	98	6 898



MOPW ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

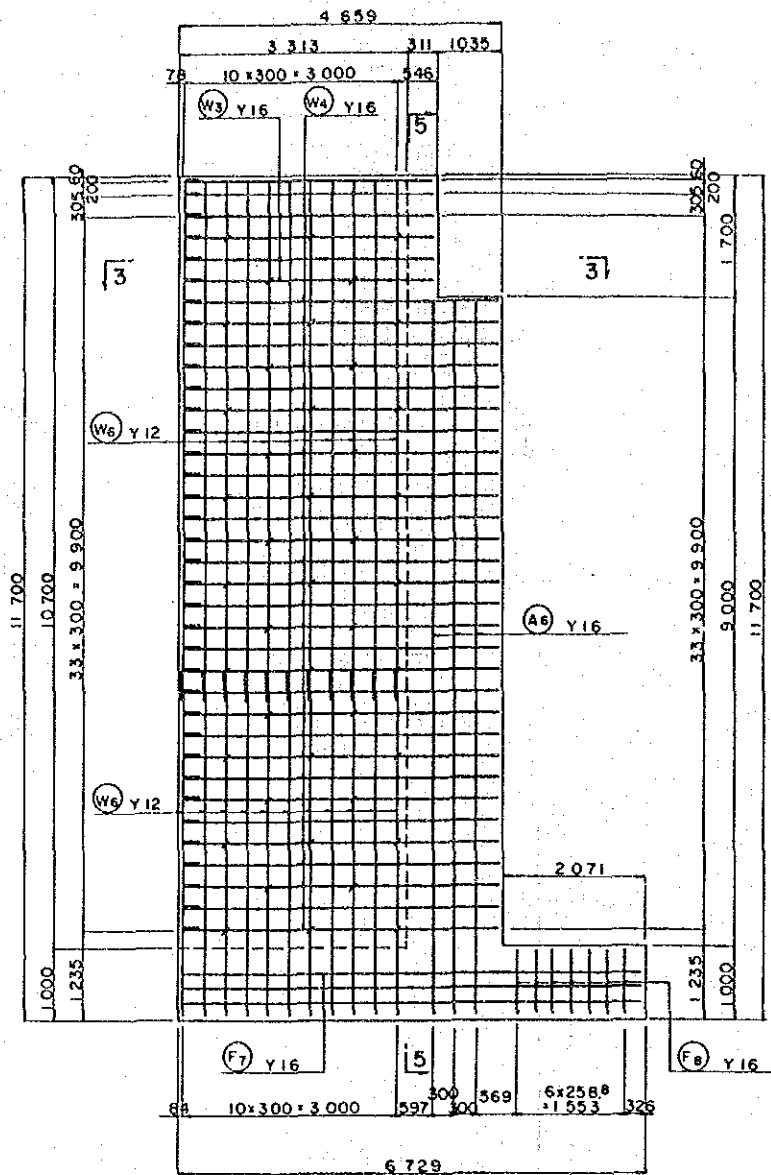
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NAIROBI BYPASS  
RAILWAY BRIDGE  
ABUTMENTS (A1) (4)

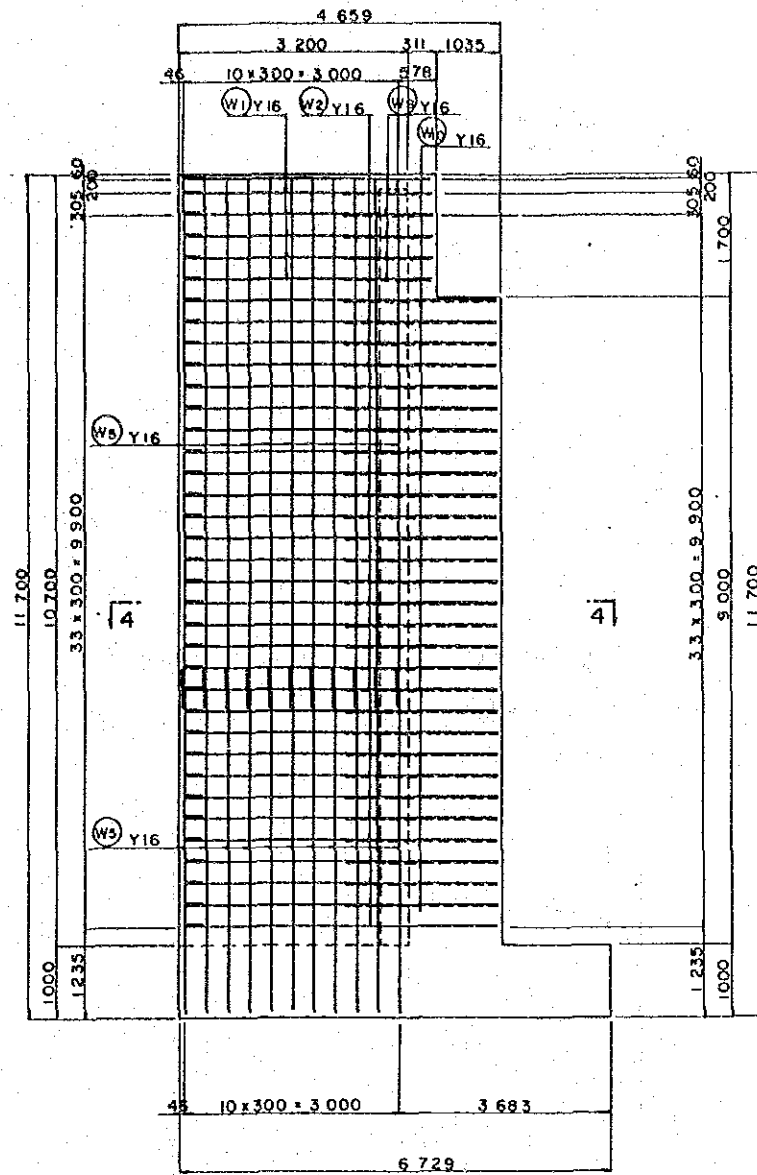
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SHEET 50 OF 75

SURVEYED BY  
 MAPPING BY  
 LOCATION BY  
 TRACED BY  
 CHECKED BY

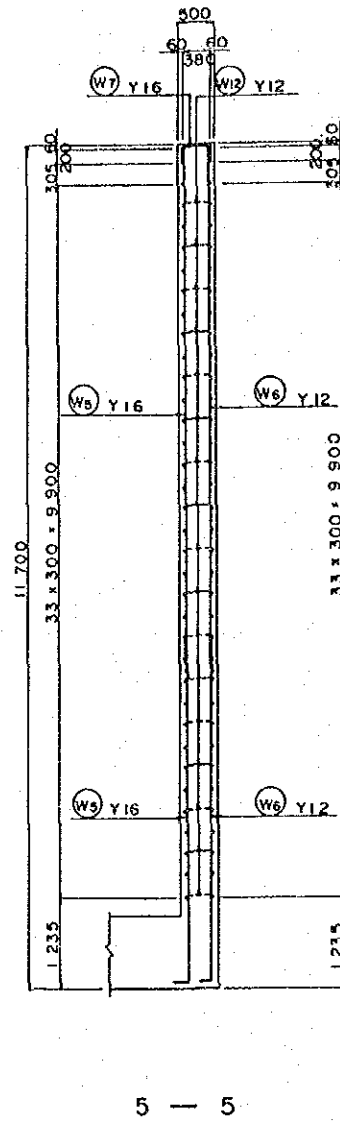
M.O.P.W. ROADS DEPT. DRG. NO.



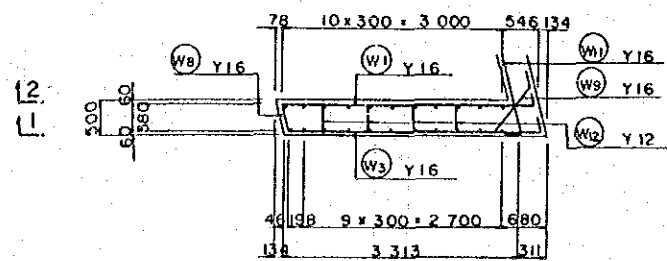
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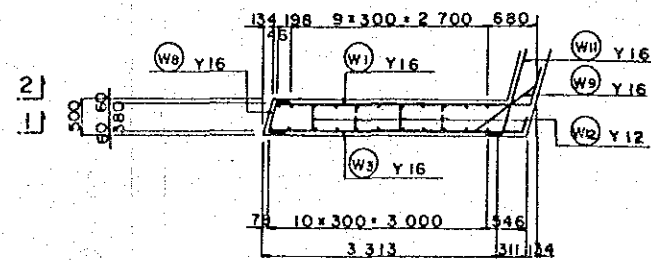
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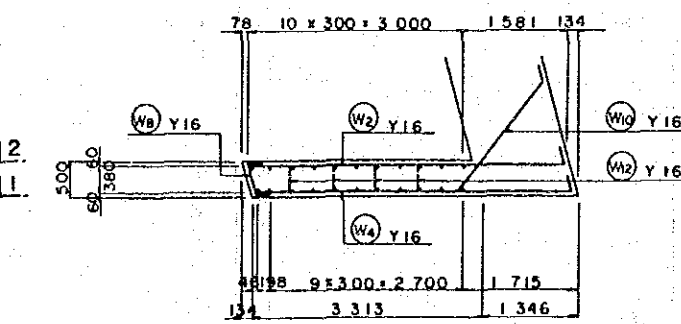
5 - 5



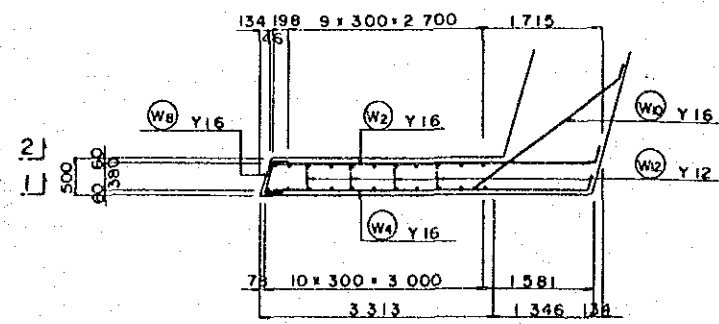
3 - 3 (LEFT)



3 - 3 (RIGHT)



4 - 4 (LEFT)



4 - 4 (RIGHT)

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

SEN. SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

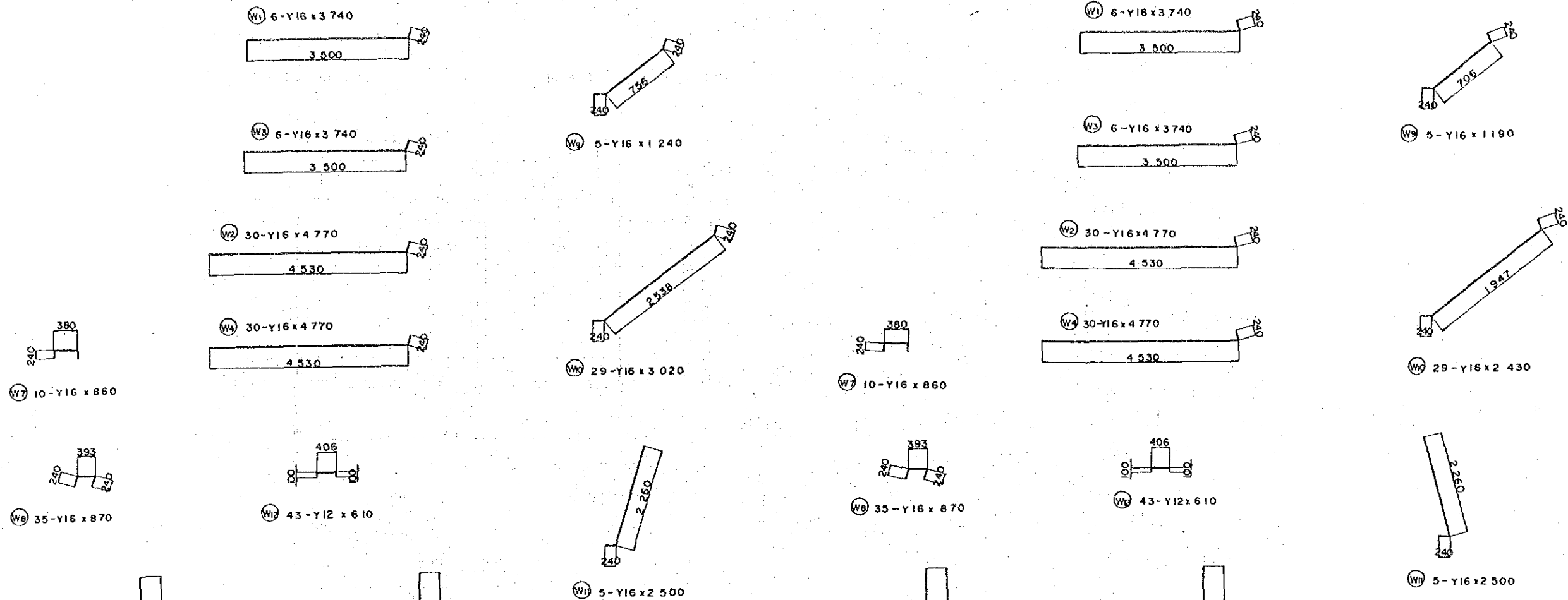
NAIROBI BYPASS  
RAILWAY BRIDGE  
RING WALL (A1) (1)

O  
SHEET 51 OF 75



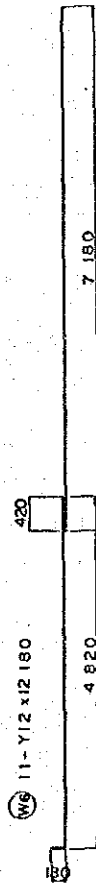
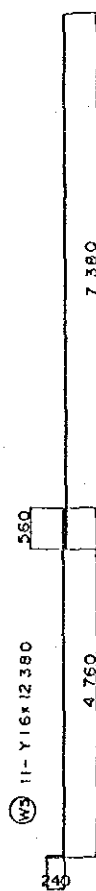
RIGHT WING

LEFT WING



AERIAL PHOTO BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

M.O.P.W. ROADS DEPT DRG NO.



RIGHT WING

LEFT WING

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

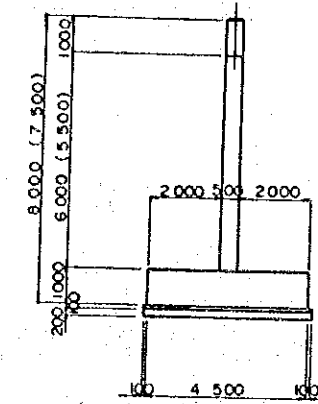
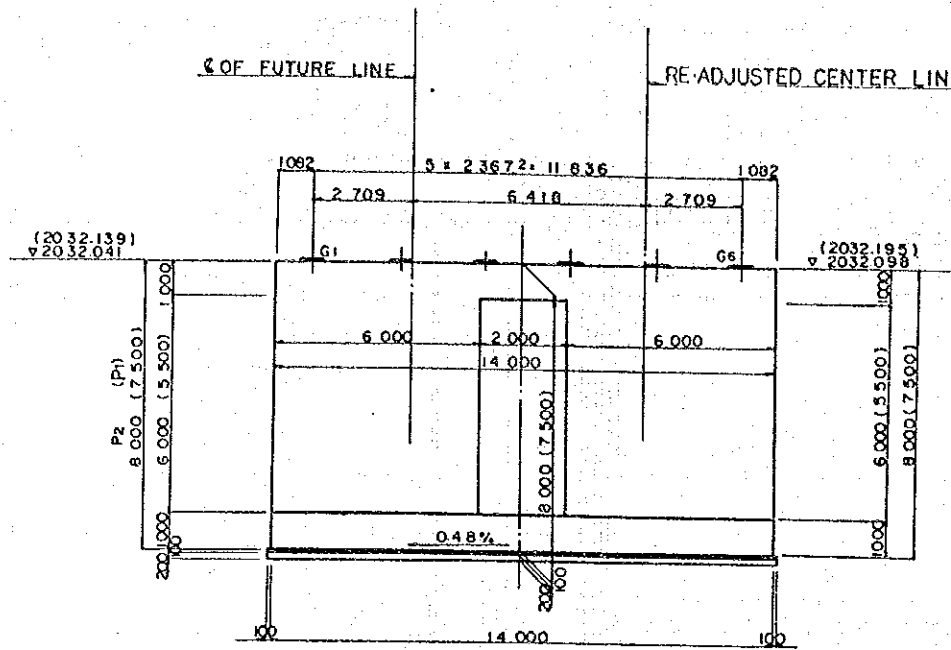
CHIEF ENGINEER (ROADS)  
CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
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PROJECT ENGINEER

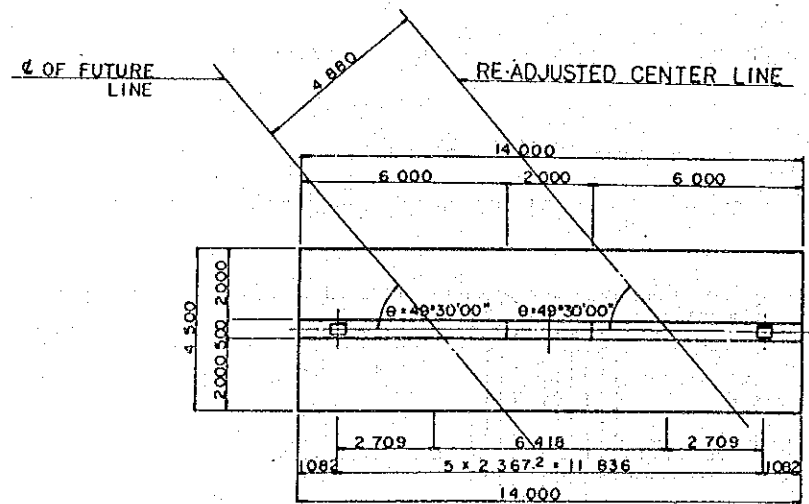
SCALES  
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NAIROBI BYPASS  
RAILWAY BRIDGE  
WING BALK (A1) (2)





SIDE VIEW

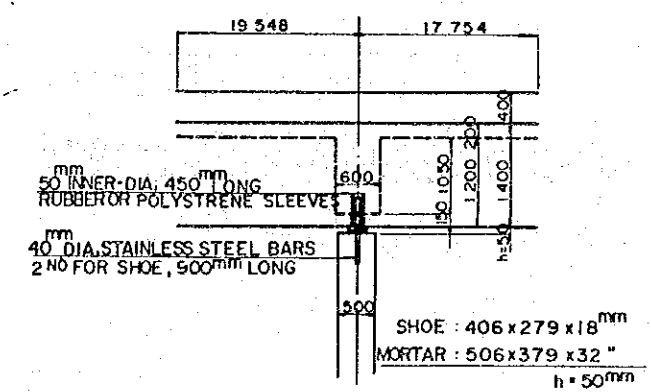


PLAN-(P<sub>1</sub>)P<sub>2</sub> PIER

Girder No	G1	G2	G3	G4	G5	G6	G1	G2	G3	G4	G5	G6
Height	2033.989	2034.000	2034.011	2034.023	2034.034	2034.045	2033.891	2033.902	2033.914	2033.925	2033.936	2033.948
Proportion	400	400	400	400	400	400	400	400	400	400	400	400
Structure	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400
Ballast	18	18	18	18	18	18	18	18	18	18	18	18
Girder	32	32	32	32	32	32	32	32	32	32	32	32
Shoe	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
Mortar	2032.139	2032.150	2032.161	2032.173	2032.184	2032.195	2032.041	2032.052	2032.064	2032.075	2032.086	2032.098
Total												
Pedestal face												

P<sub>1</sub>-PIER (Fix)

P<sub>2</sub>-PIER (Fix)



PIER (Fix)

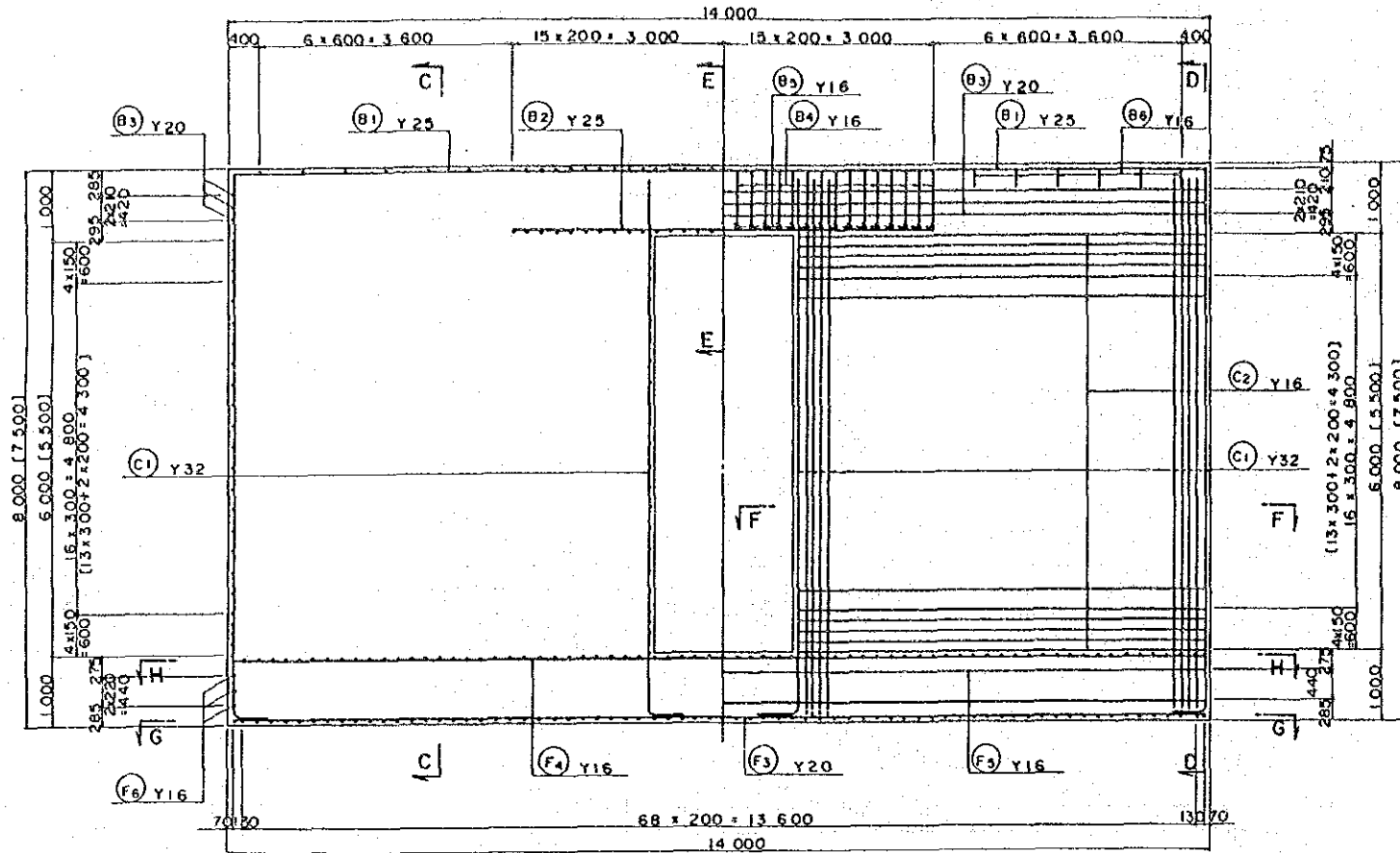
SURVEYED BY  
 TRACED BY  
 MAPPING BY  
 LOCATION BY  
 CHECKED BY

M.O.P.W. ROADS DEPT. DRG. NO.

REVISIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)	SEN SUPT. ENG (DESIGN)	SCALES	NAIROBI BYPASS	0
DESCRIPTION	DATE						

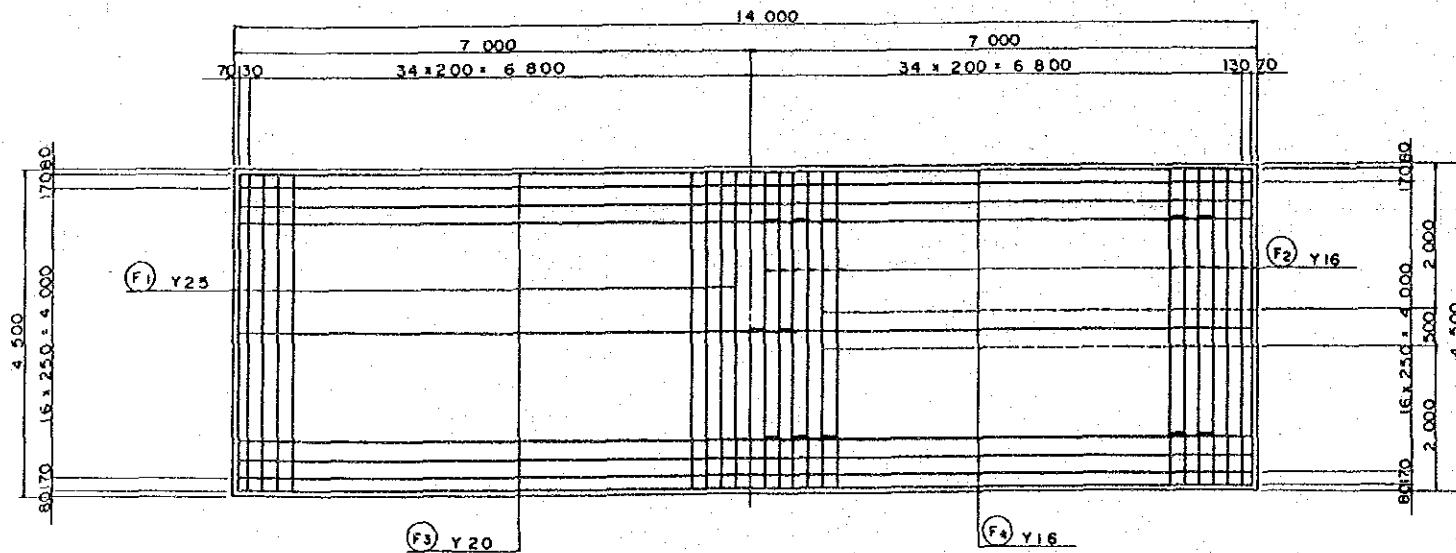
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 TRACED BY  
 CHECKED BY  
 AERIAL PHOTO BY  
 MAPPING BY  
 LOCATION BY

MOPW ROADS DEPT DRG NO



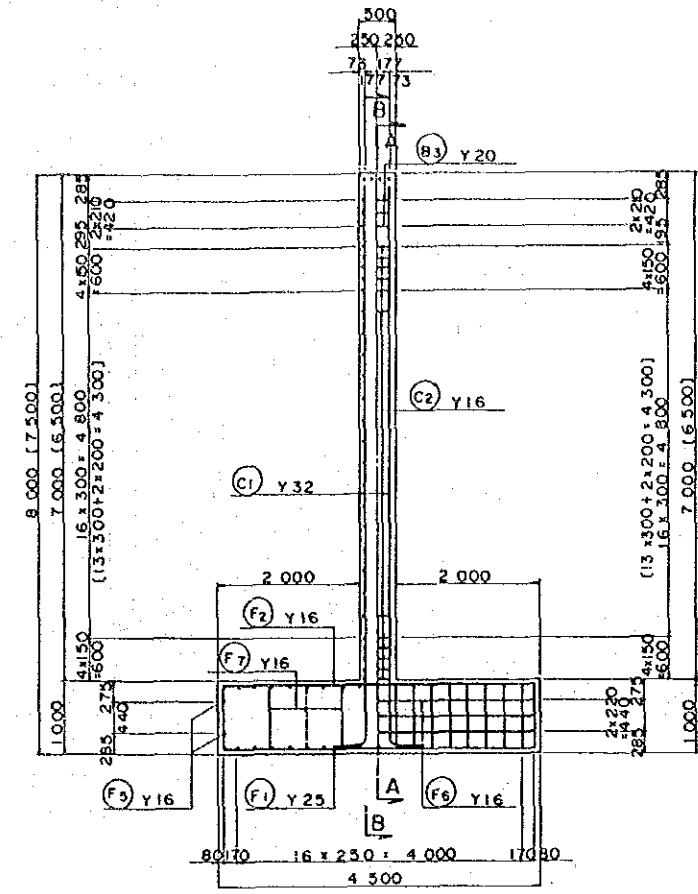
A - A

B - B

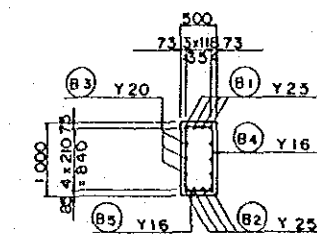


G - G

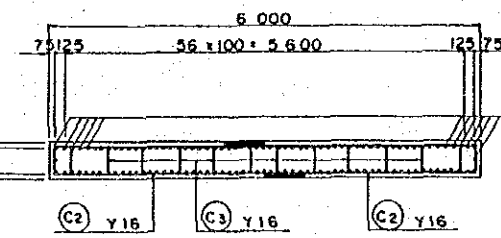
H - H



C - C D - D



E - E



F - F

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

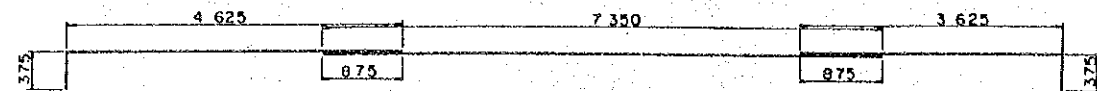
SCALES  
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NAIROBI BYPASS  
RAILWAY BRIDGE  
PIERS (P1, P2) (2)

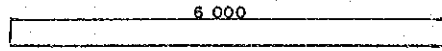
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SHEET 54 OF 75

AERIAL PHOTO BY  
 MAPPING BY  
 SURVEYED BY  
 TRACED BY  
 LOCATION BY  
 CHECKED BY

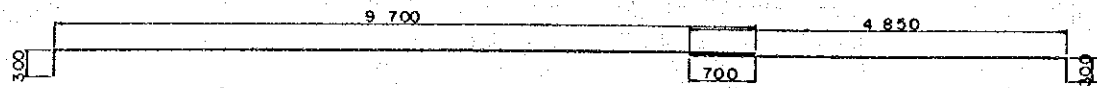
MOPW ROADS DEPT DRG NO.



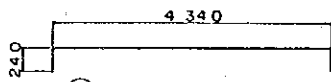
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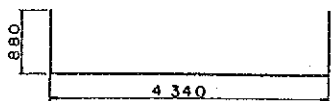
(B2) 4-Y25 x 6.000



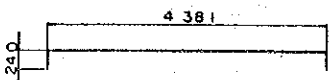
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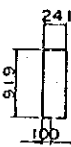
(F2) 71-Y16 x 4.820



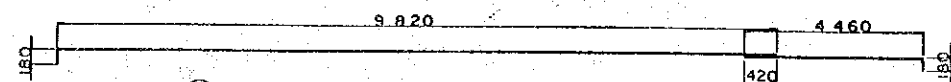
(F1) 71-Y25 x 6.100



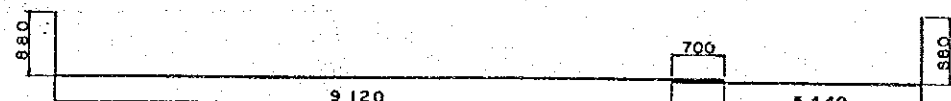
(F8) 6-Y16 x 4.860



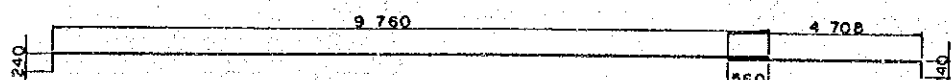
(F7) 196-Y16 x 2.280



(F4) 19-Y12 x 14.640



(F3) 19-Y12 x 16.320



(F5) 4-Y16 x 14.950



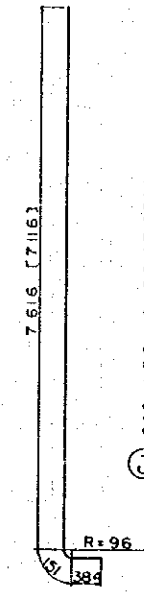
(B4) 31-Y16 x 2.360



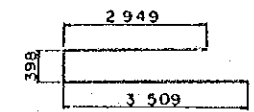
(B5) 31-Y16 x 600



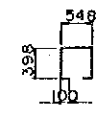
(B6) 12-Y16 x 8.80



(C1) 240-Y32 x 8.150 (7.650)



(C2) (96) 100-Y16 x 6.860



(C3) (240) 252-Y16 x 1.540

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
 CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

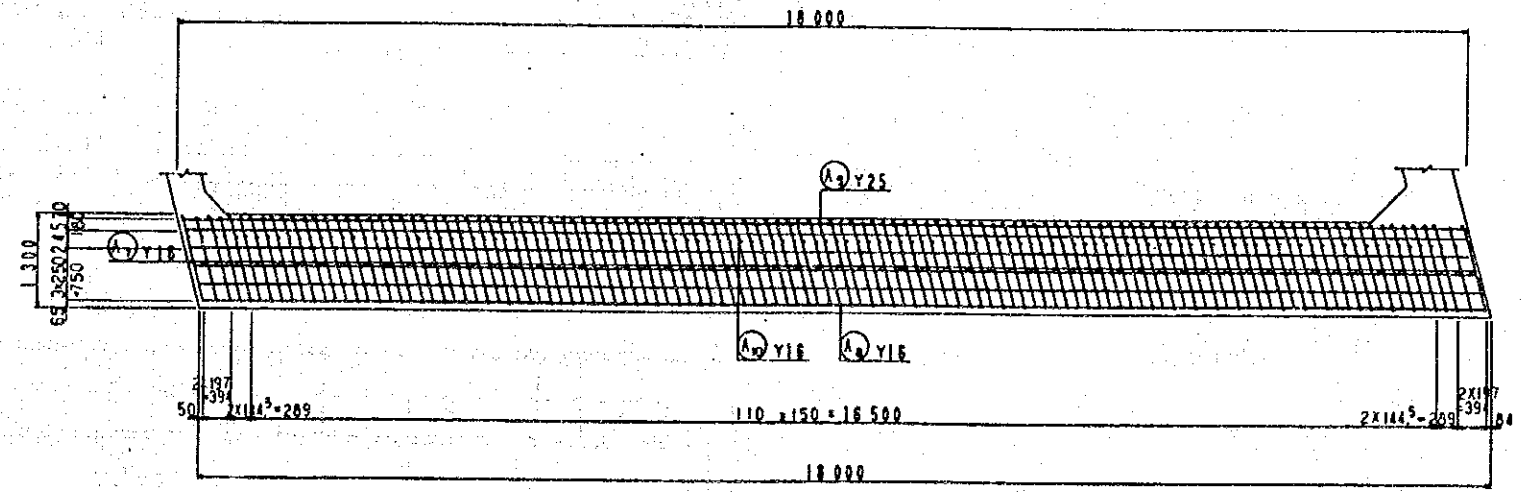
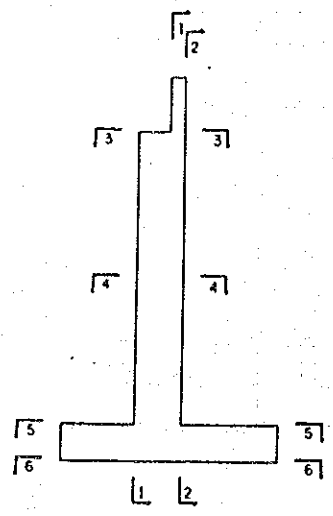
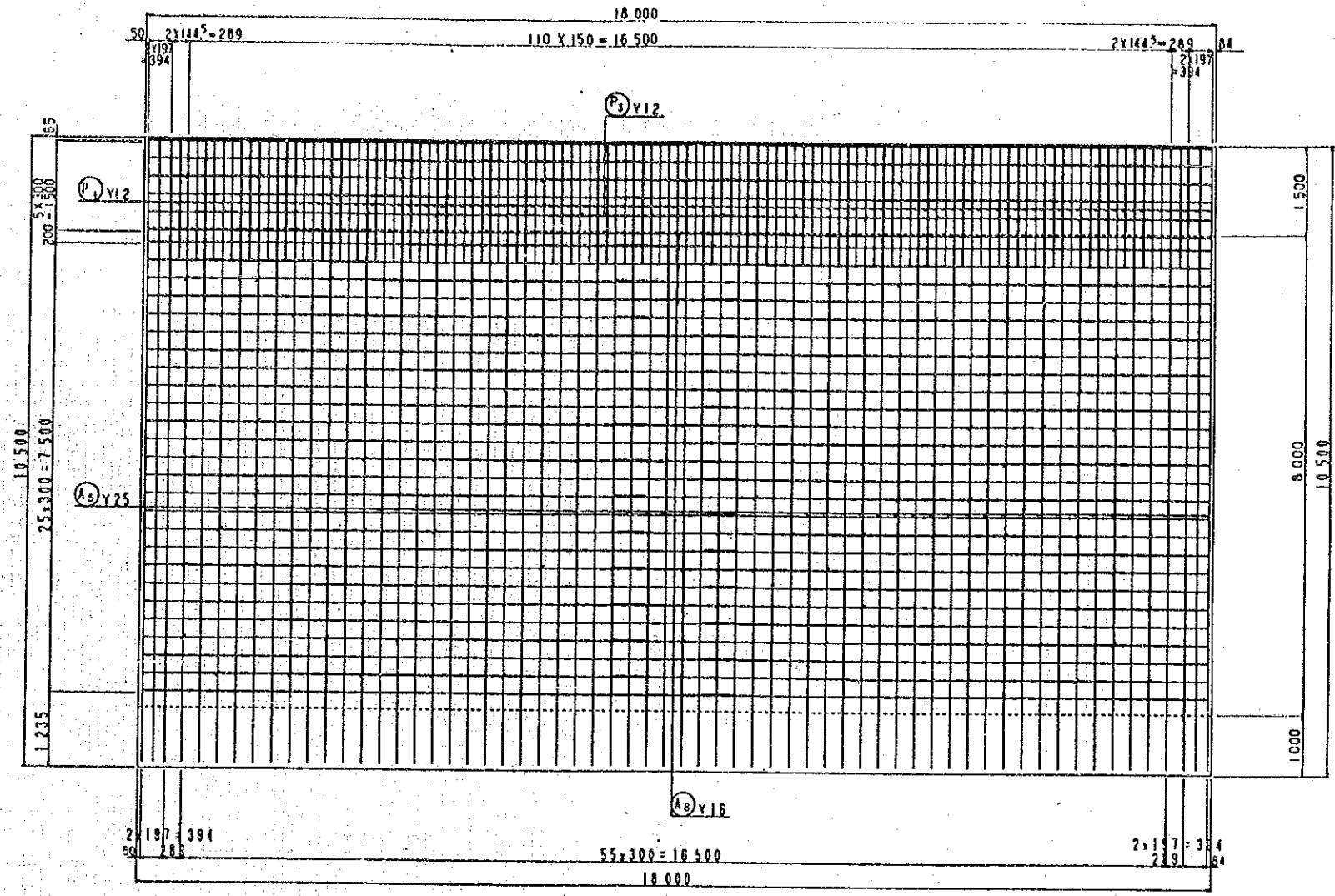
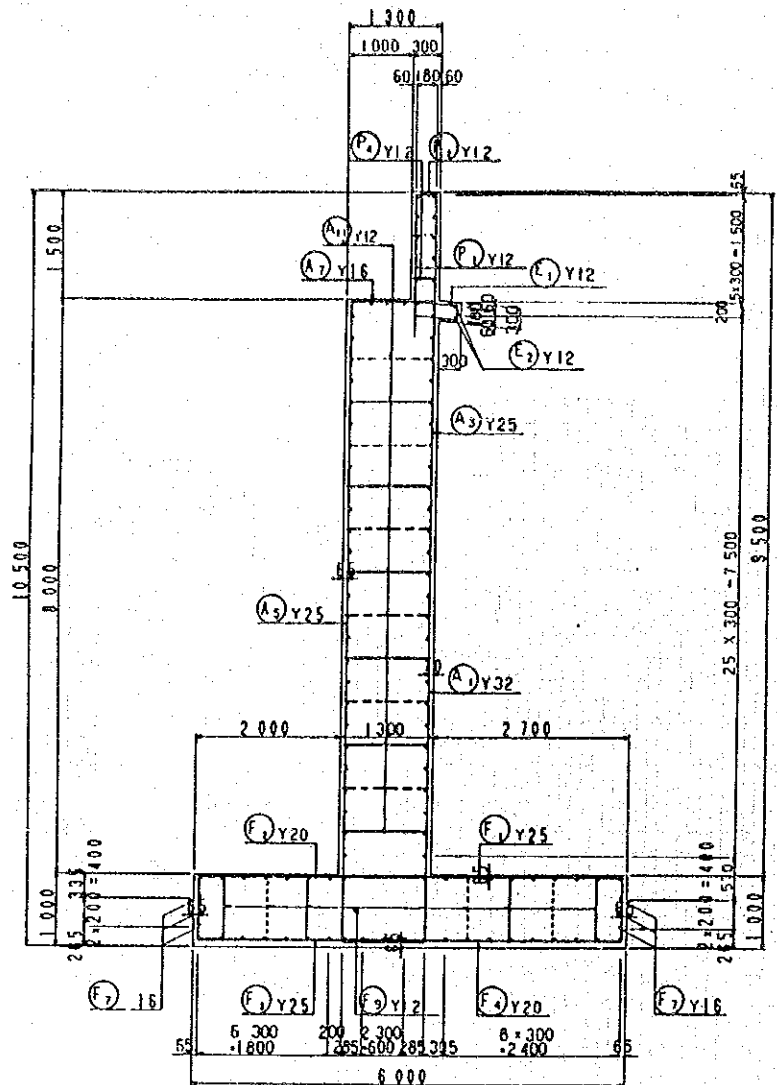
SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 PIERS (P1, P2) (3)



AERIAL PHOTO BY \_\_\_\_\_ SURVEYED BY \_\_\_\_\_  
 MAPPING BY \_\_\_\_\_ TRACED BY \_\_\_\_\_  
 LOCATION BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

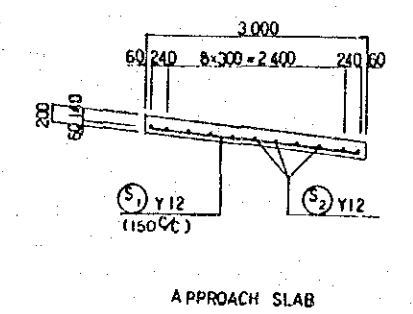
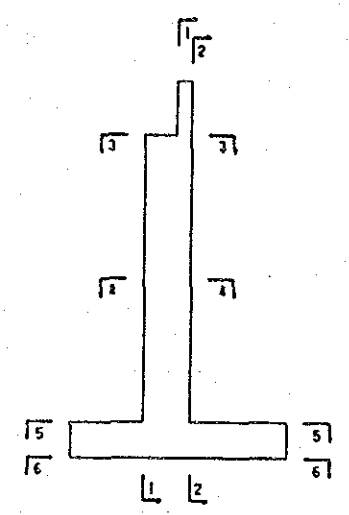
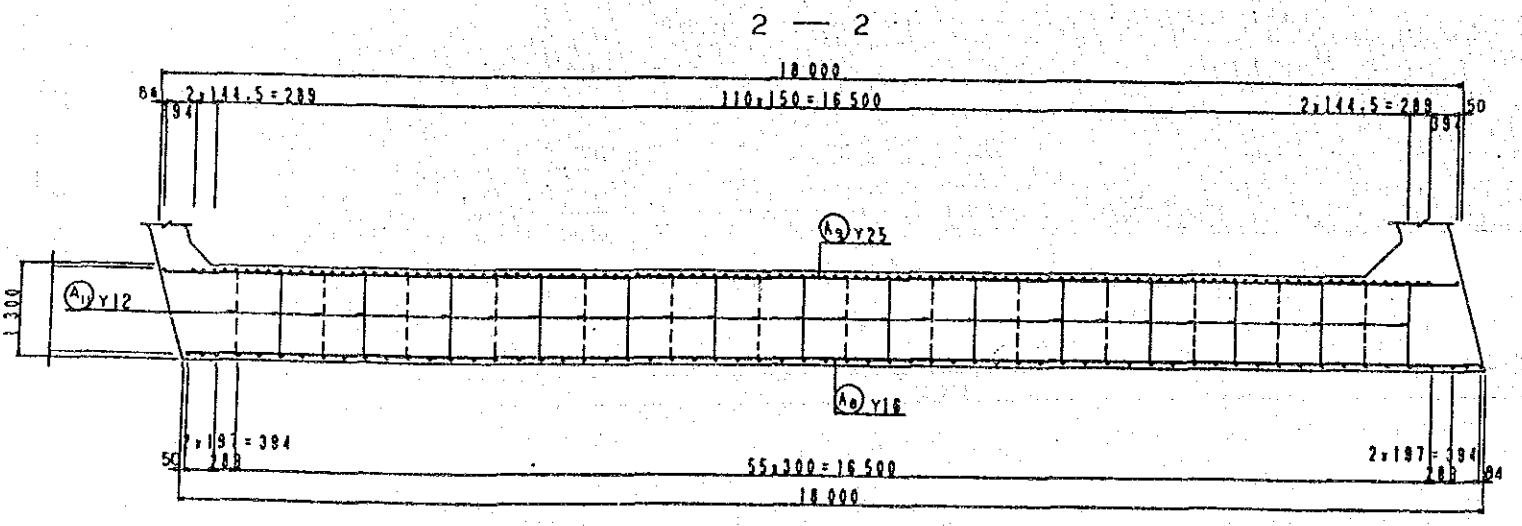
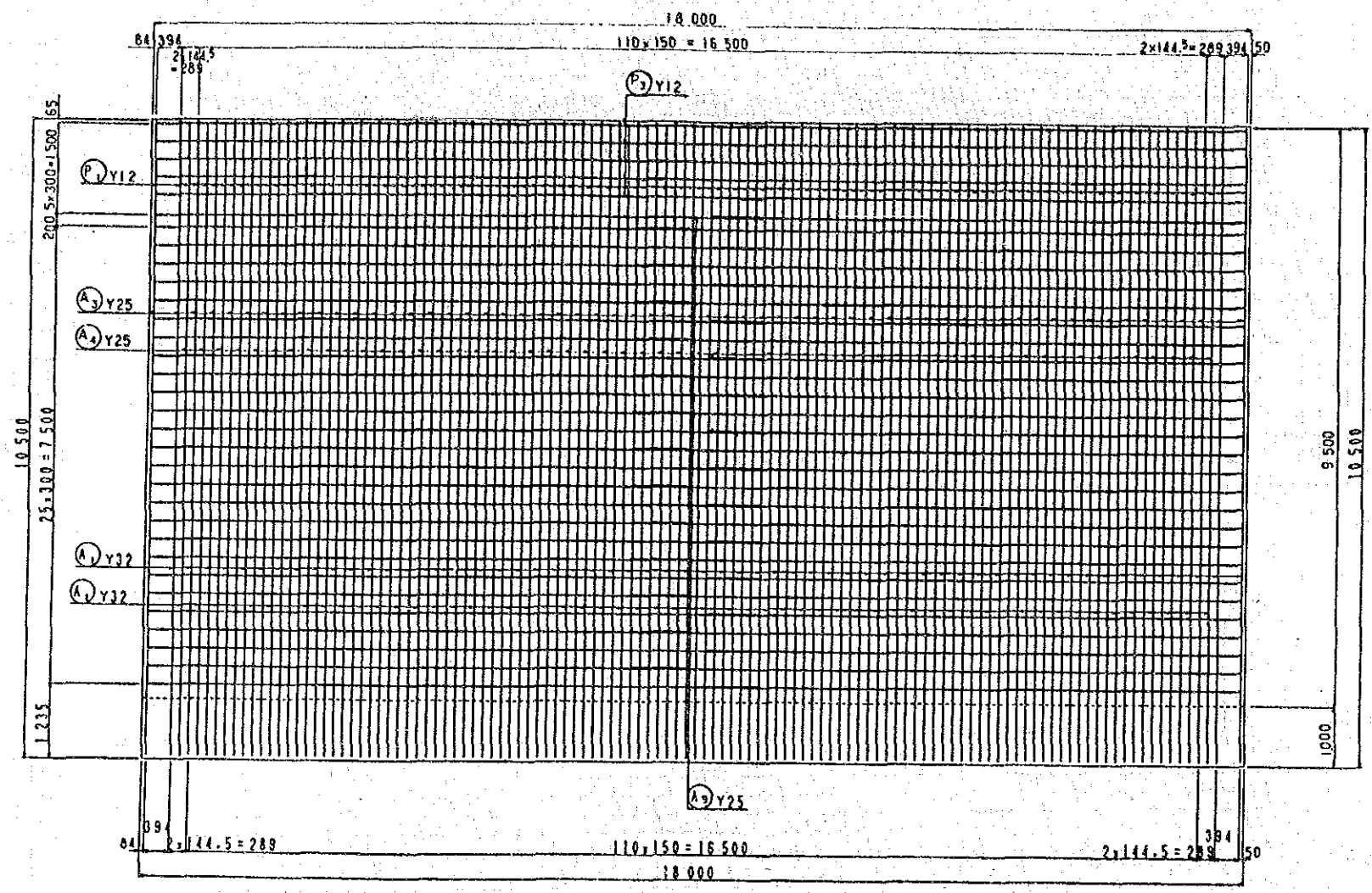
MOPW ROADS DEPT DRG NO.



3 - 3

REVISIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)	SEN SUPT. ENG (DESIGN)	SCALES	NAIROBI BYPASS	O
DESCRIPTION	DATE						
			CHIEF SUPT. ENG (DESIGN)	SUPT. ENGINEER (DESIGN)	1:50	RAILWAY BRIDGE	
				PROJECT ENGINEER		REQUIREMENTS (42) (3)	SHEET 57 OF 75

AERIAL PHOTO BY SURVEYED BY  
 MAPPING BY TRACED BY  
 LOCATION BY CHECKED BY



MOPW ROADS DEPT DRG NO.

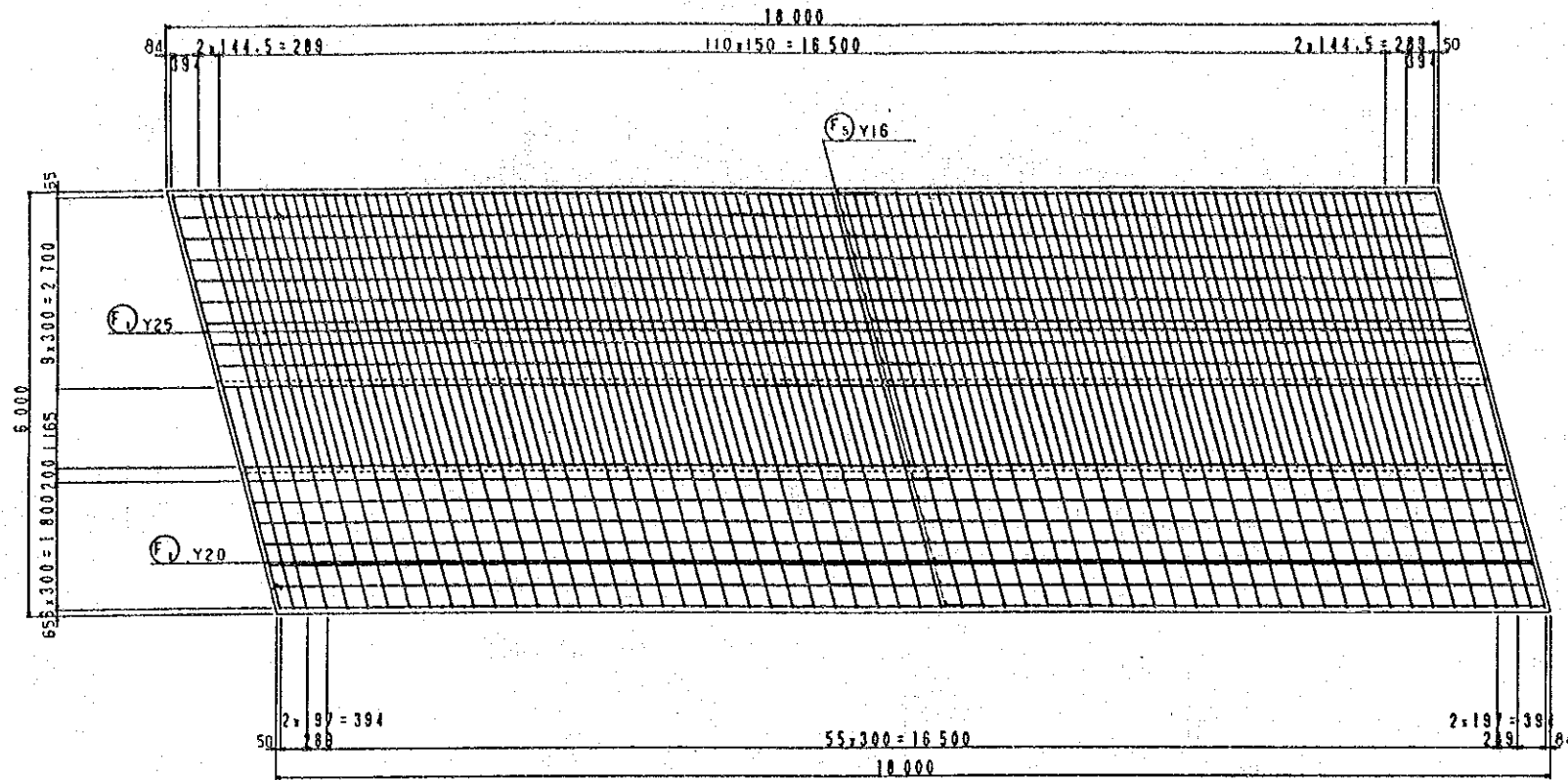
REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
 CHIEF ENGINEER (ROADS)  
 CHIEF SUPT ENG (DESIGN)

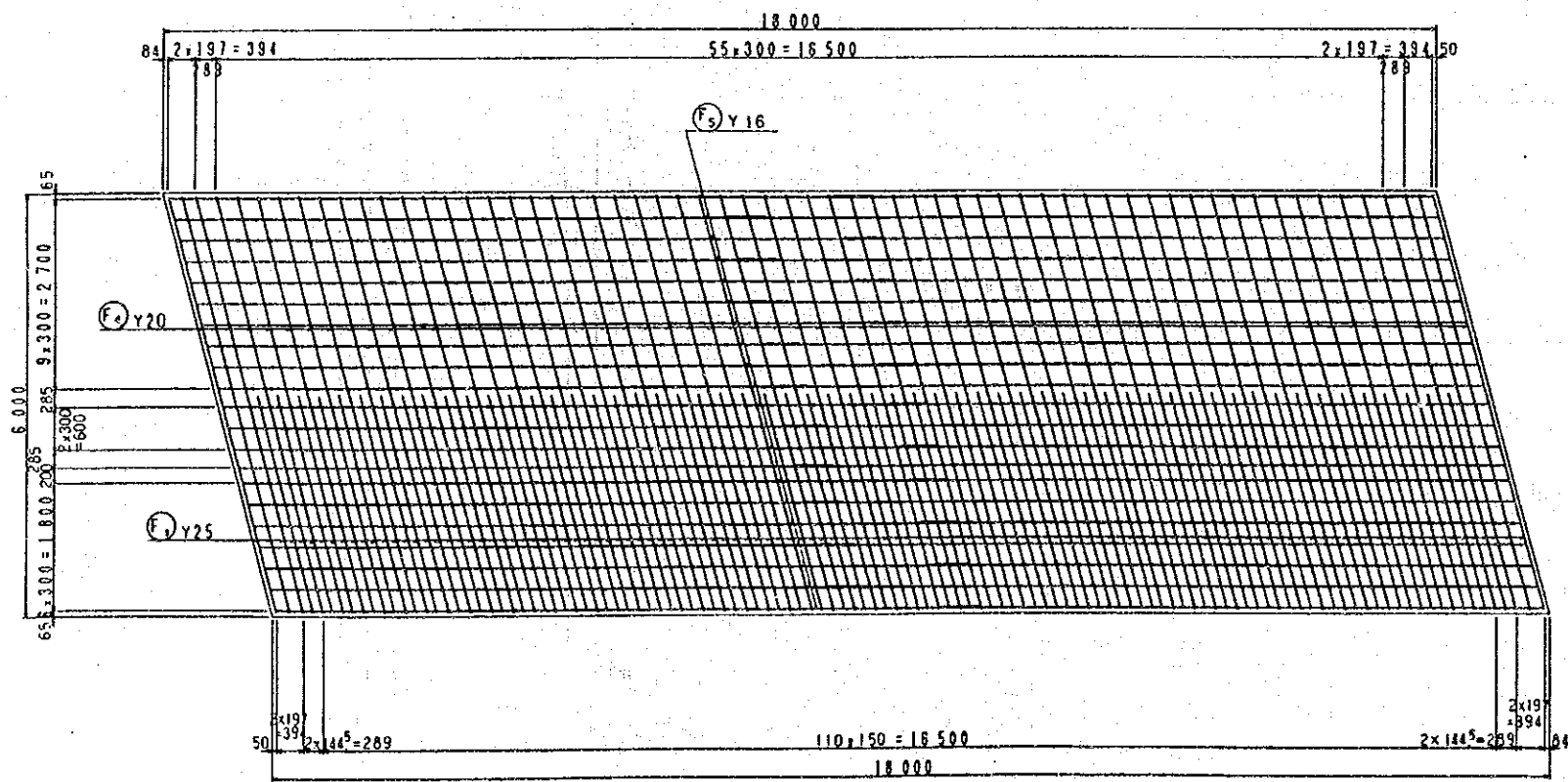
SEN SUPT. ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 ABUTMENTS (A2) (3)



5 - 5



6 - 6

AERIAL PHOTO BY	SURVEYED BY
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LOCATION BY	CHECKED BY

MOPW ROADS DEPT DRG NO.

REVISIONS	DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
ABUTMENTS (A2) (4)

0  
SHEET 59 OF 75



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LOCATION BY  
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TRACED BY  
CHECKED BY

M.O.P.W. ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

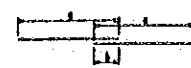
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CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG. (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER


SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
ABUTMENTS (A2) (A3)

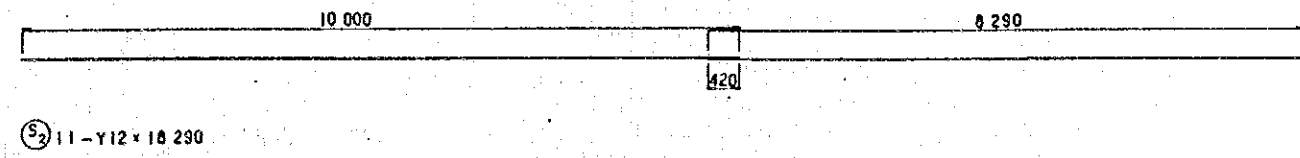
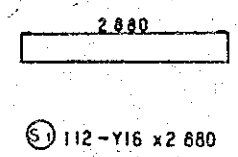
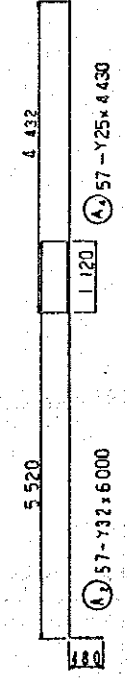
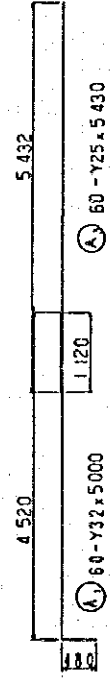
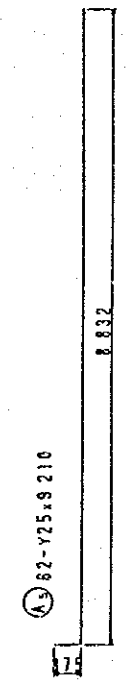
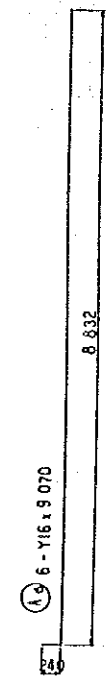
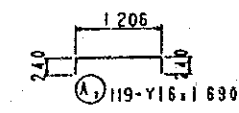
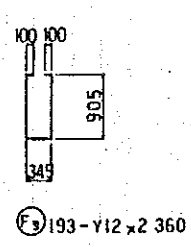
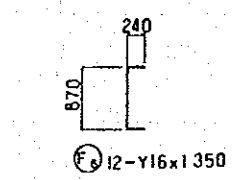
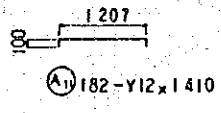
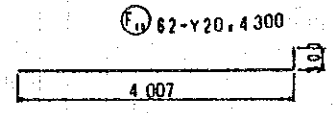
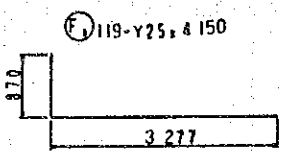
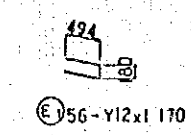
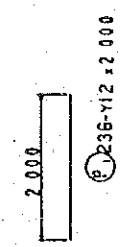
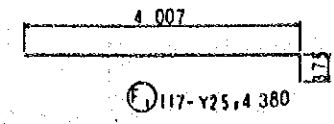
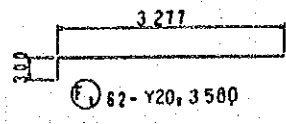
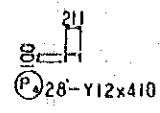
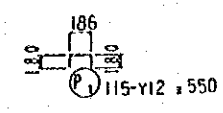
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SHEET 60 OF 75



MARK	DIA	NUMBER	a	b	c	d	e	f	g	h
P3	Y12	2	18.888	128	0.788	18.288				
E2	Y12	2	18.888	128	0.788	18.288				
A9	Y16	27	10.000	560	0.426	18.430				
A9	Y25	27	10.000	875	0.741	18.750				
A10	Y16	4	10.000	560	0.426	18.430				
F5	Y16	39	10.000	560	0.426	18.430				

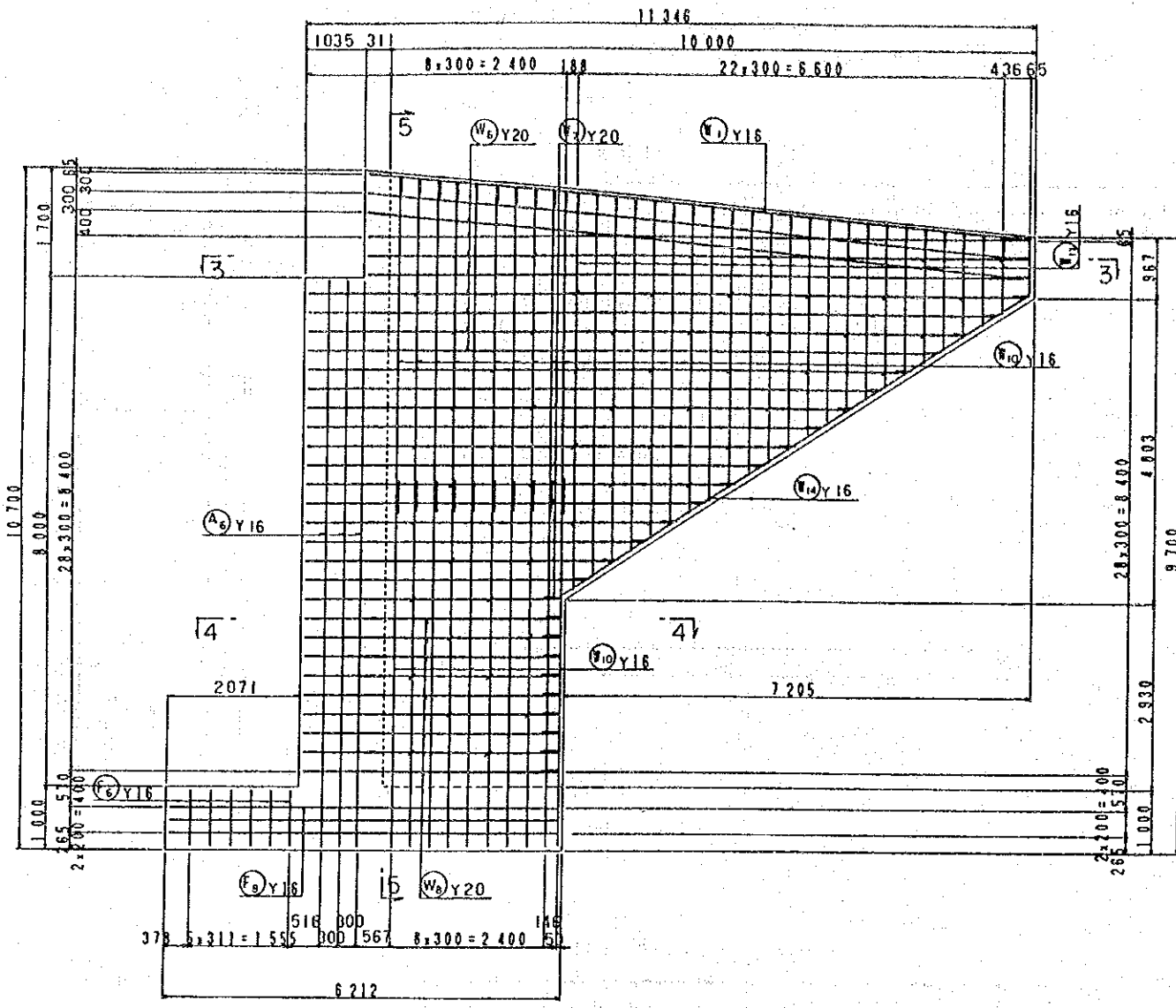


MARK	DIA	NUMBER	a	b	c	d	e	f	g	h
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F82	Y18	6	248	5.911	588	0.888	248	98	98	6.390

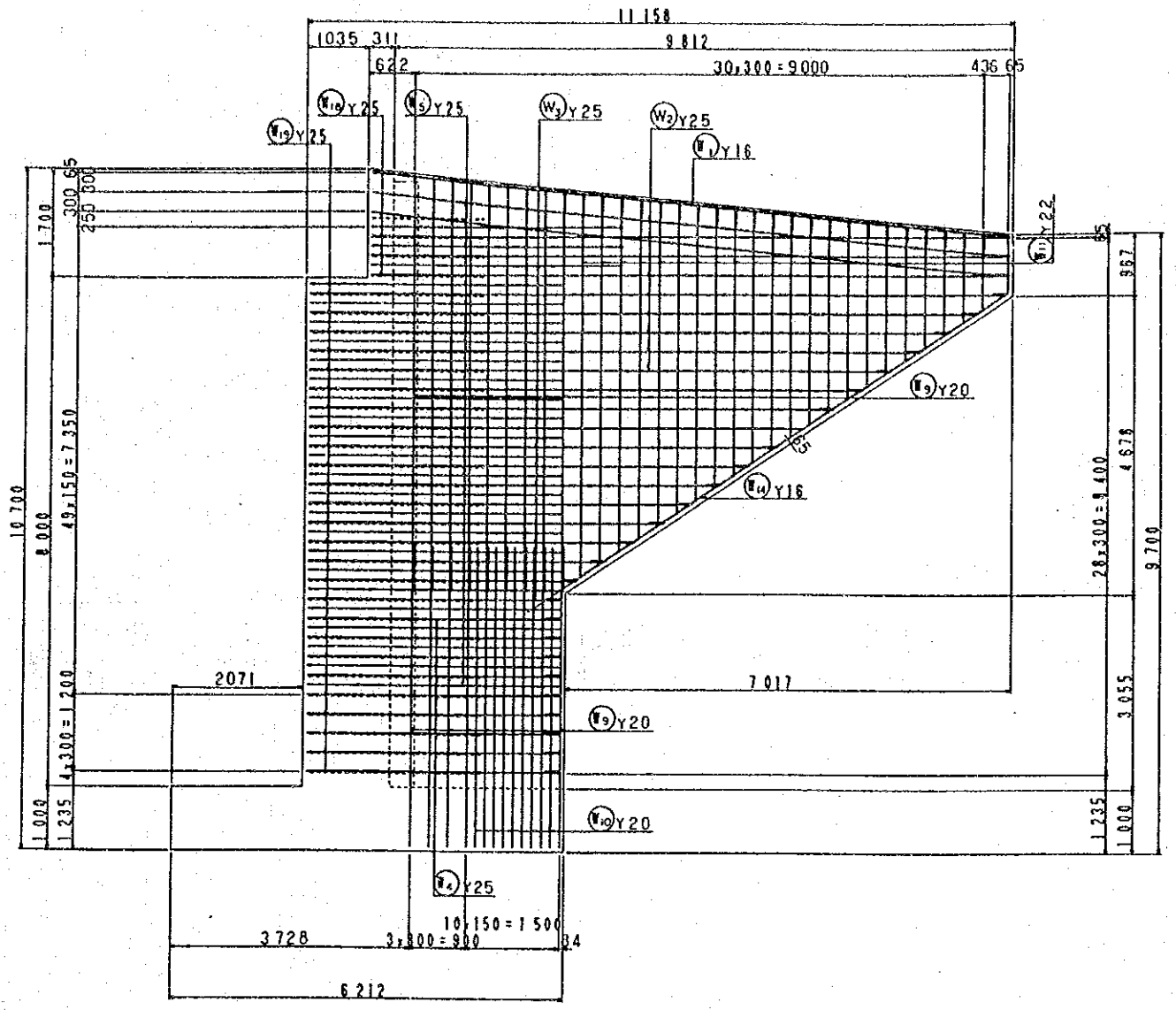


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 TRACED BY  
 CHECKED BY  
 AERIAL PHOTO BY  
 MAPPING BY  
 LOCATION BY

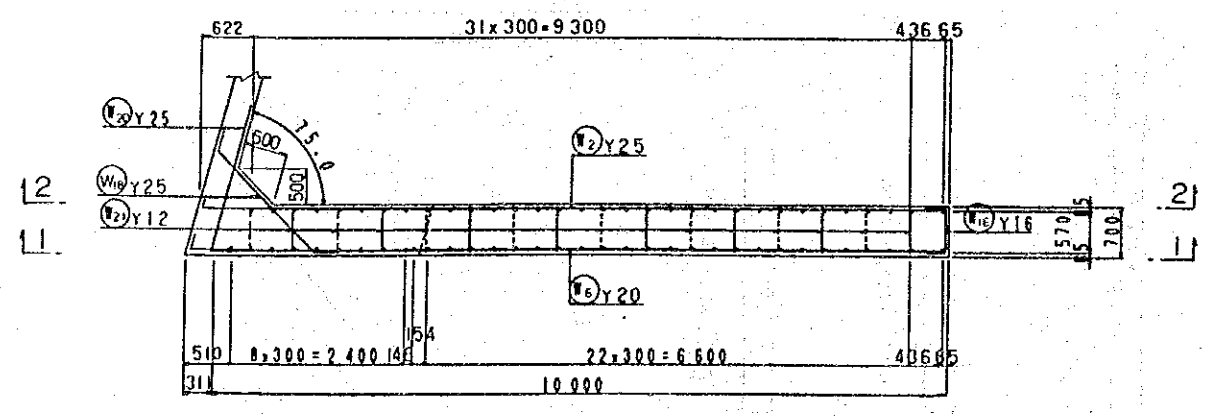
MOPW ROADS DEPT DRG NO.



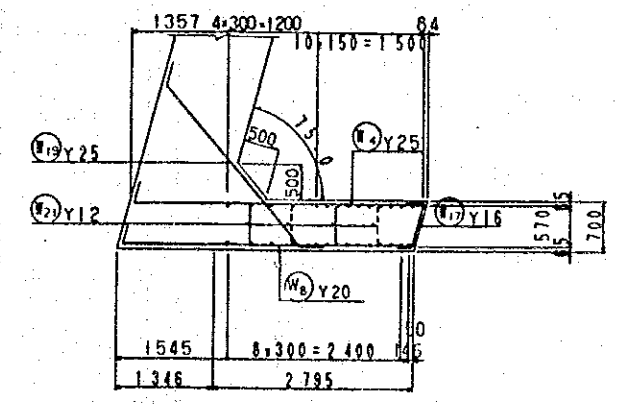
1 — 1



2 — 2



3 — 3



4 — 4

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

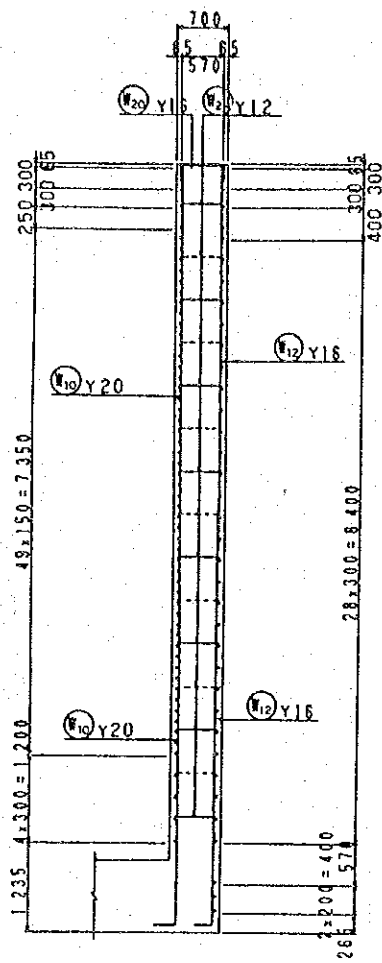
SEN SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

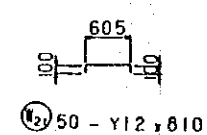
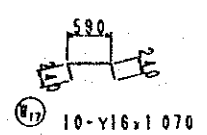
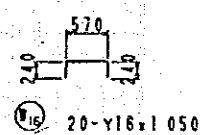
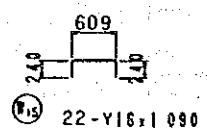
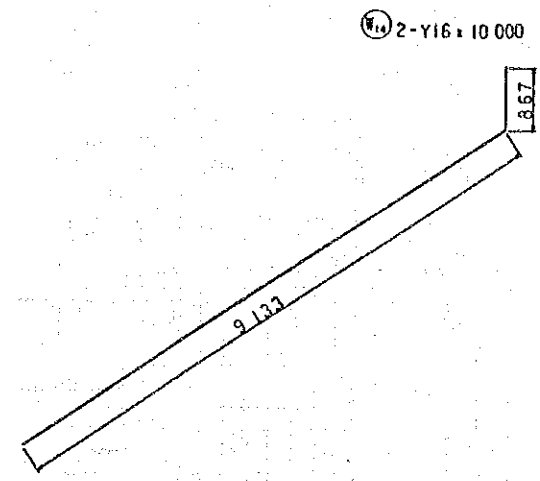
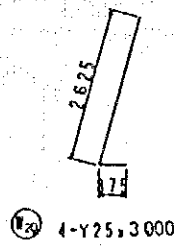
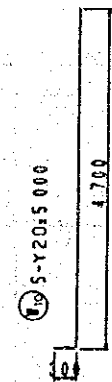
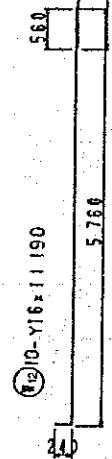
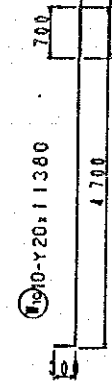
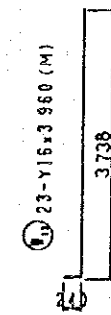
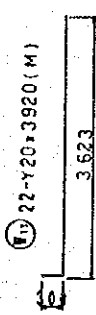
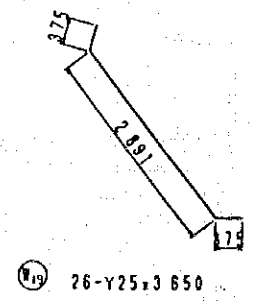
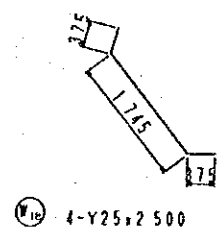
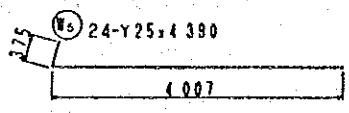
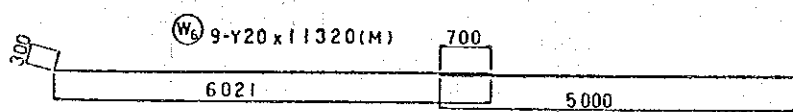
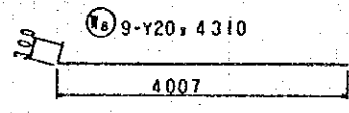
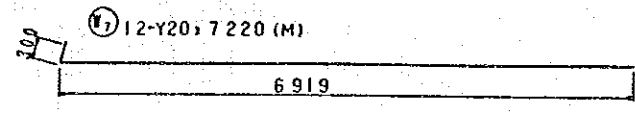
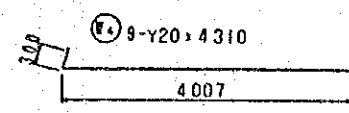
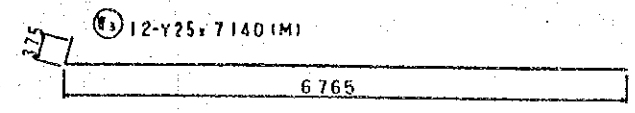
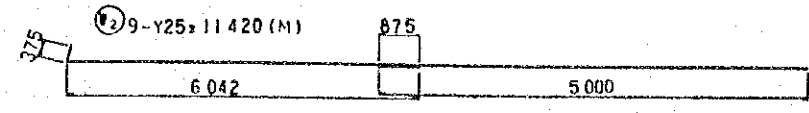
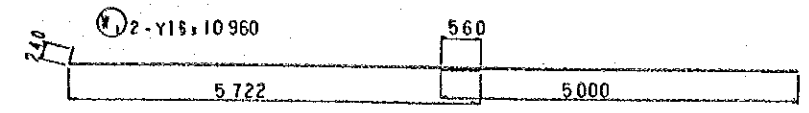
NAIROBI BYPASS  
RAILWAY BRIDGE  
RING WALL (A1) (1)

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MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

M.O.P.W. ROADS DEPT. DRG. NO.



5 — 5



REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

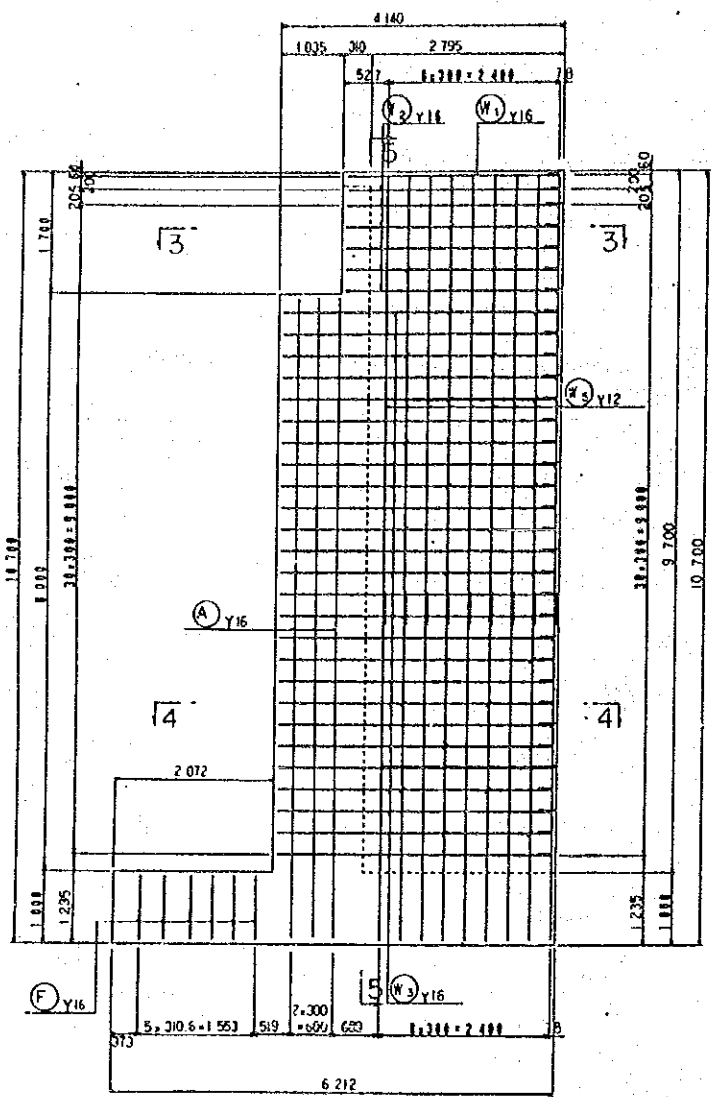
SEN. SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

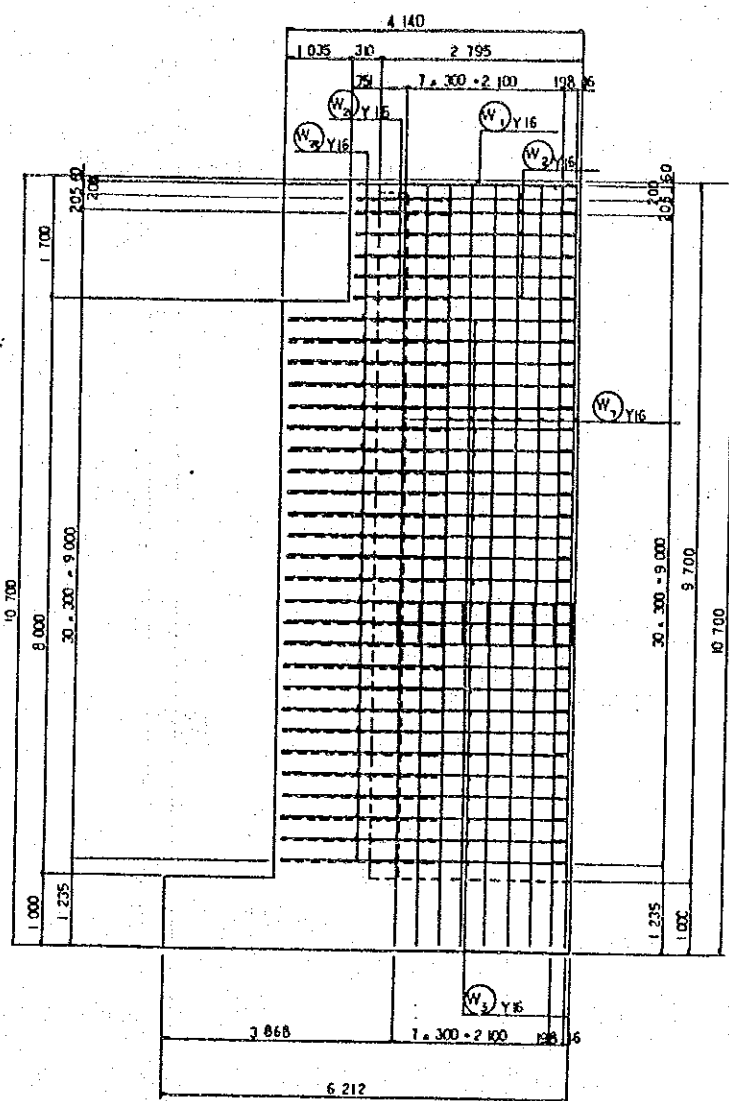
NAIROBI BYPASS  
RAILWAY BRIDGE  
WING WALL (A2) (2)

AERIAL PHOTO BY  
MAPPING BY  
LOCATION BY

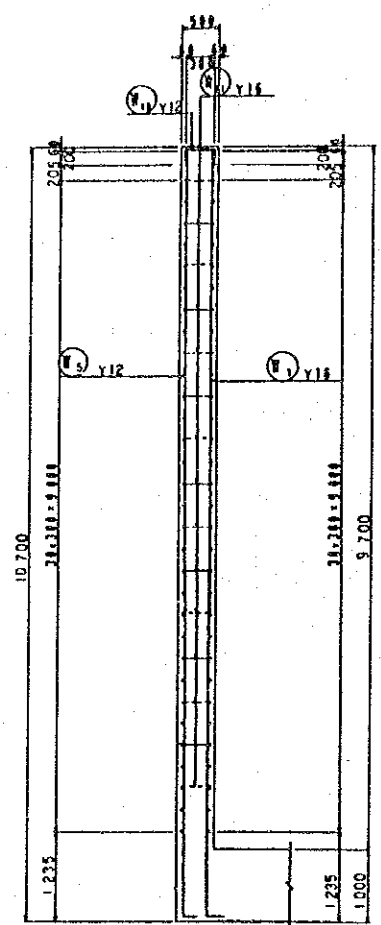
M.O.P.W. ROADS DEPT DRG NO.



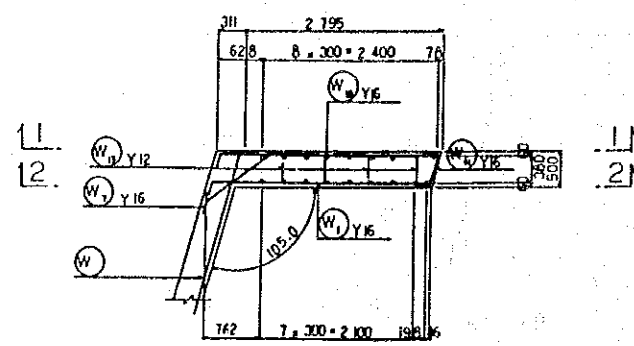
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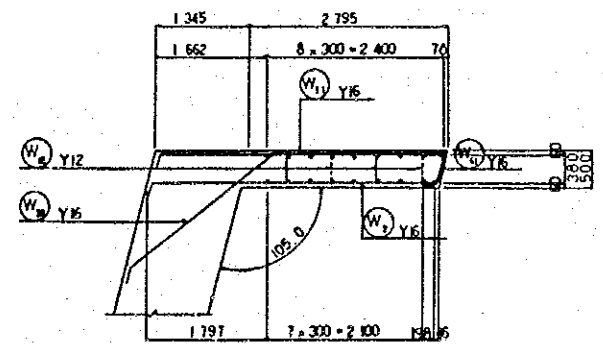
2 — 2



5 — 5



3 — 3



4 — 4

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

SEN SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

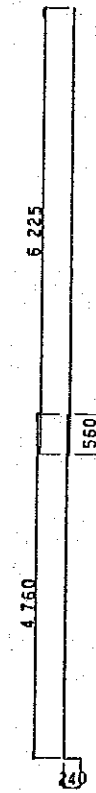
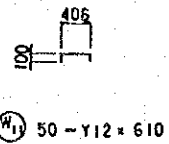
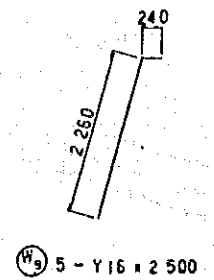
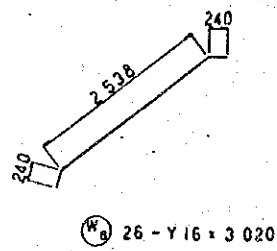
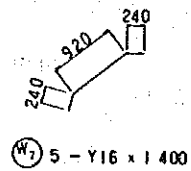
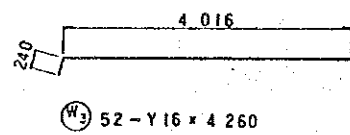
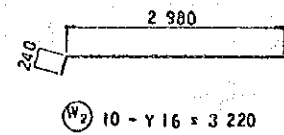
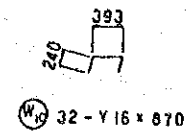
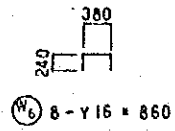
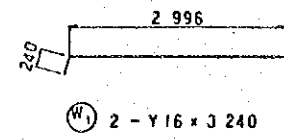
SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
WING WALL (AT) (S)

0  
SHEET 630F 75

AERIAL PHOTO BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

M.O.P.W. ROADS DEPT. DRG. NO.



W9 9 - Y16 x 11 230



W3 9 - Y12 x 11 030

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

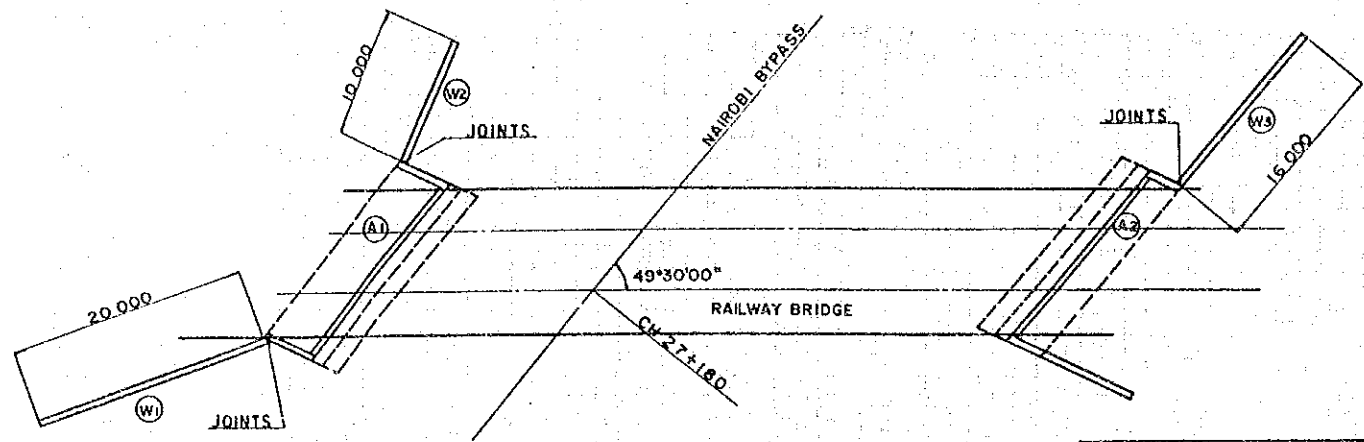
CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

SEN. SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

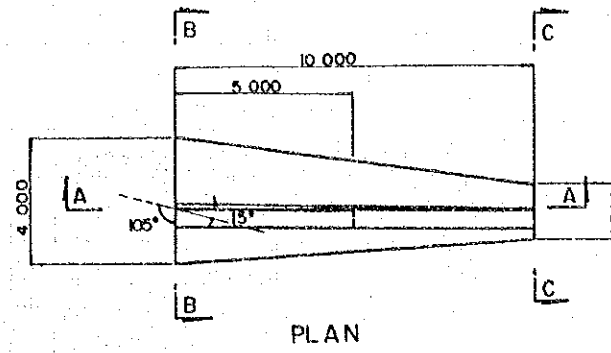
SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
RING HILL (A2) (4)

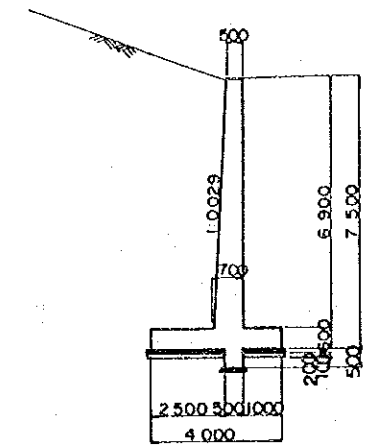
0  
SHEET 64 OF 75



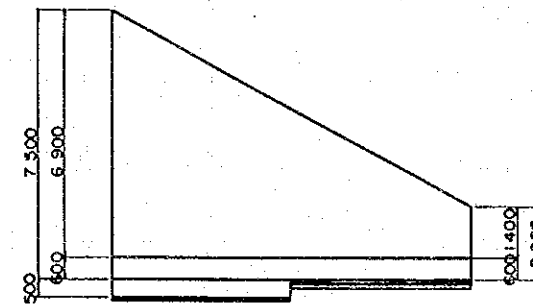
PLAN SCALE 1:300



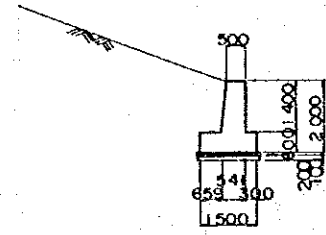
PLAN



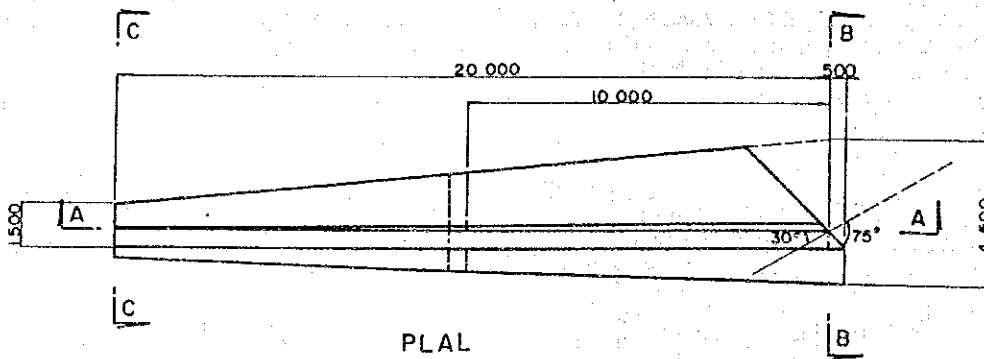
B - B



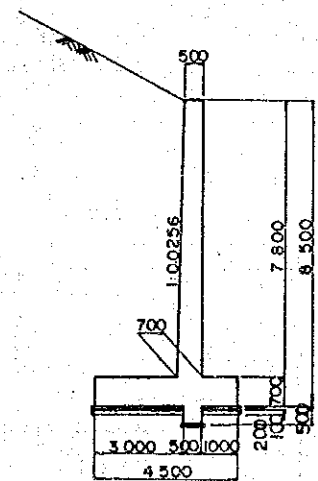
A - A



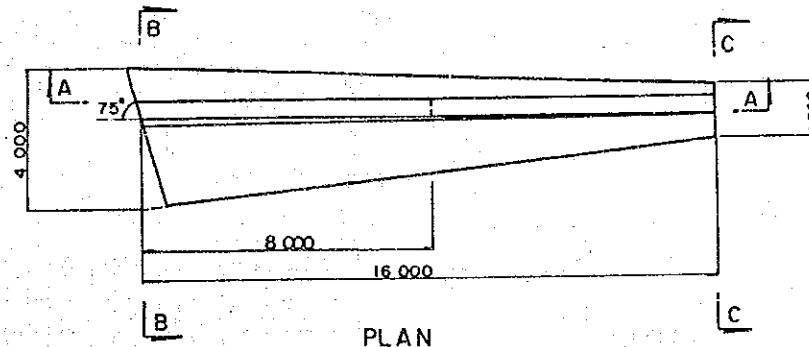
C - C



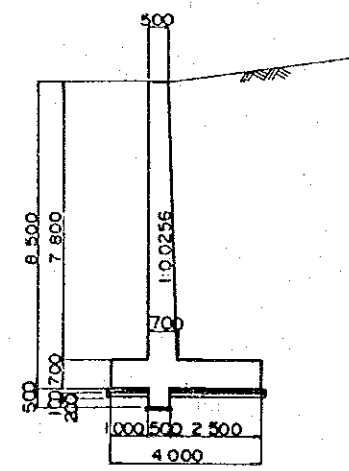
PLAN



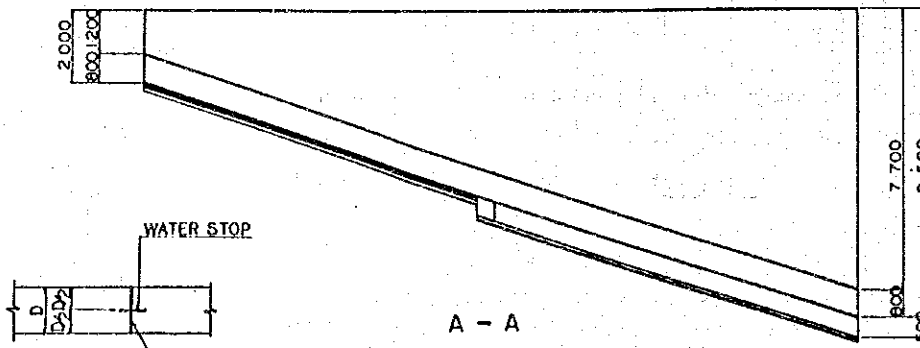
B - B



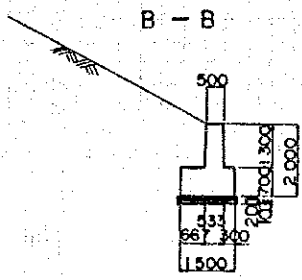
PLAN



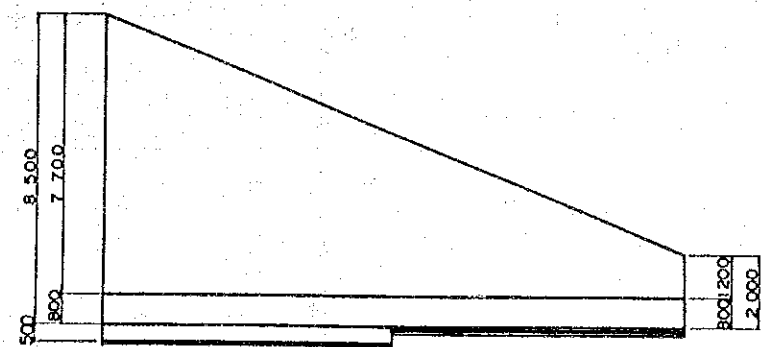
B - B



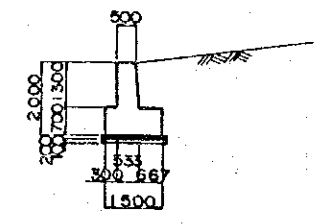
A - A



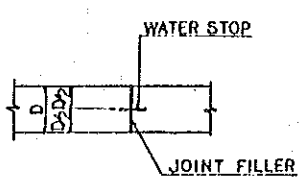
C - C



A - A



C - C



DETAIL OF JOINTS

W1 RETAINING WALL SCALE 1:100

W2 RETAINING WALL SCALE 1:100

W3 RETAINING WALL SCALE 1:100

AERIAL PHOTO BY SURVEYED BY  
MAPPING BY TRACED BY  
LOCATION BY CHECKED BY

M.O.P.W. ROADS DEPT DRG NO.

REVISIONS	DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

SEN. SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

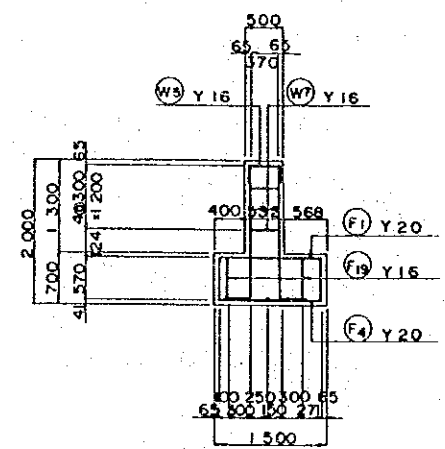
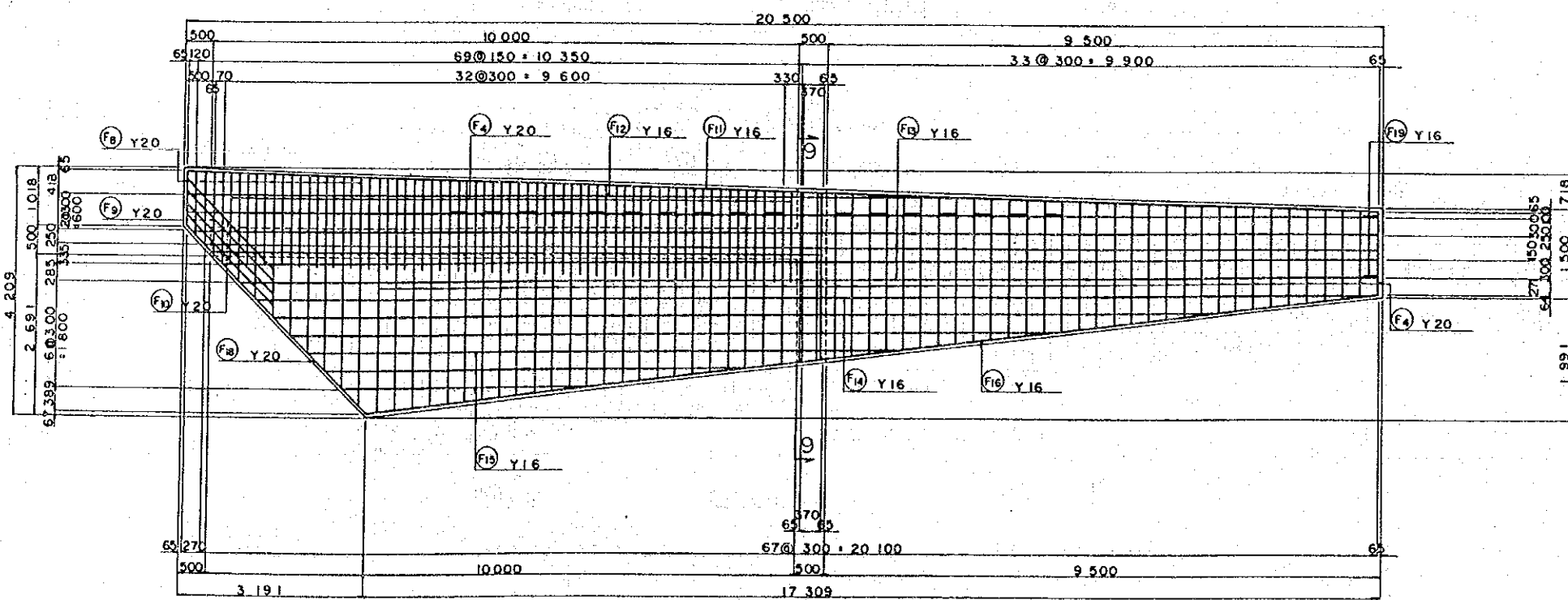
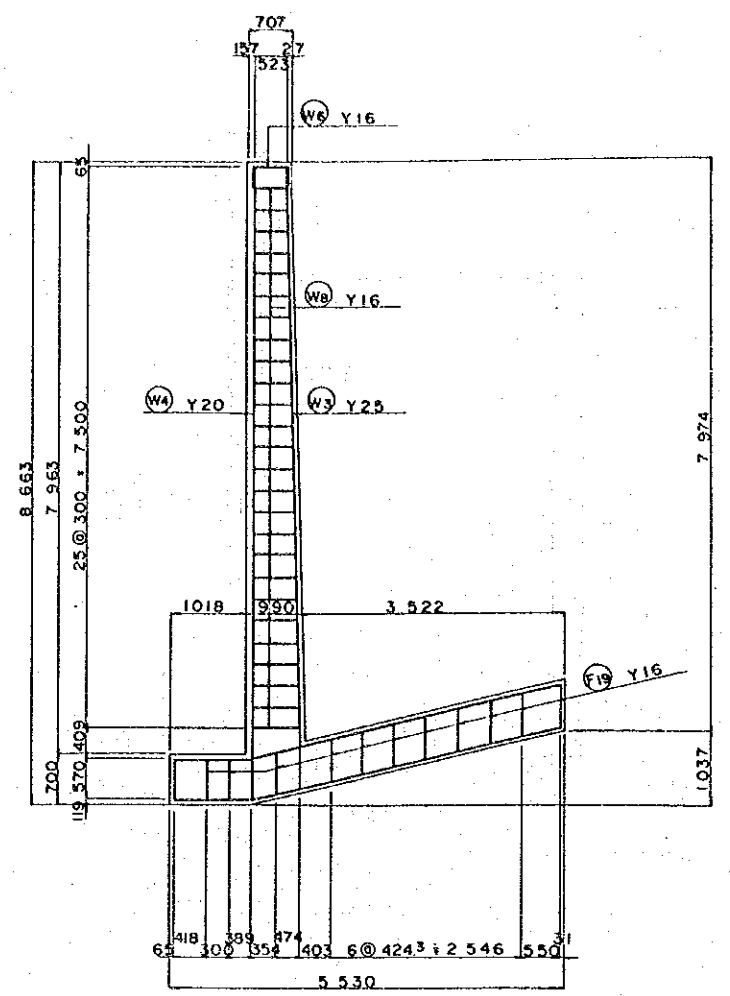
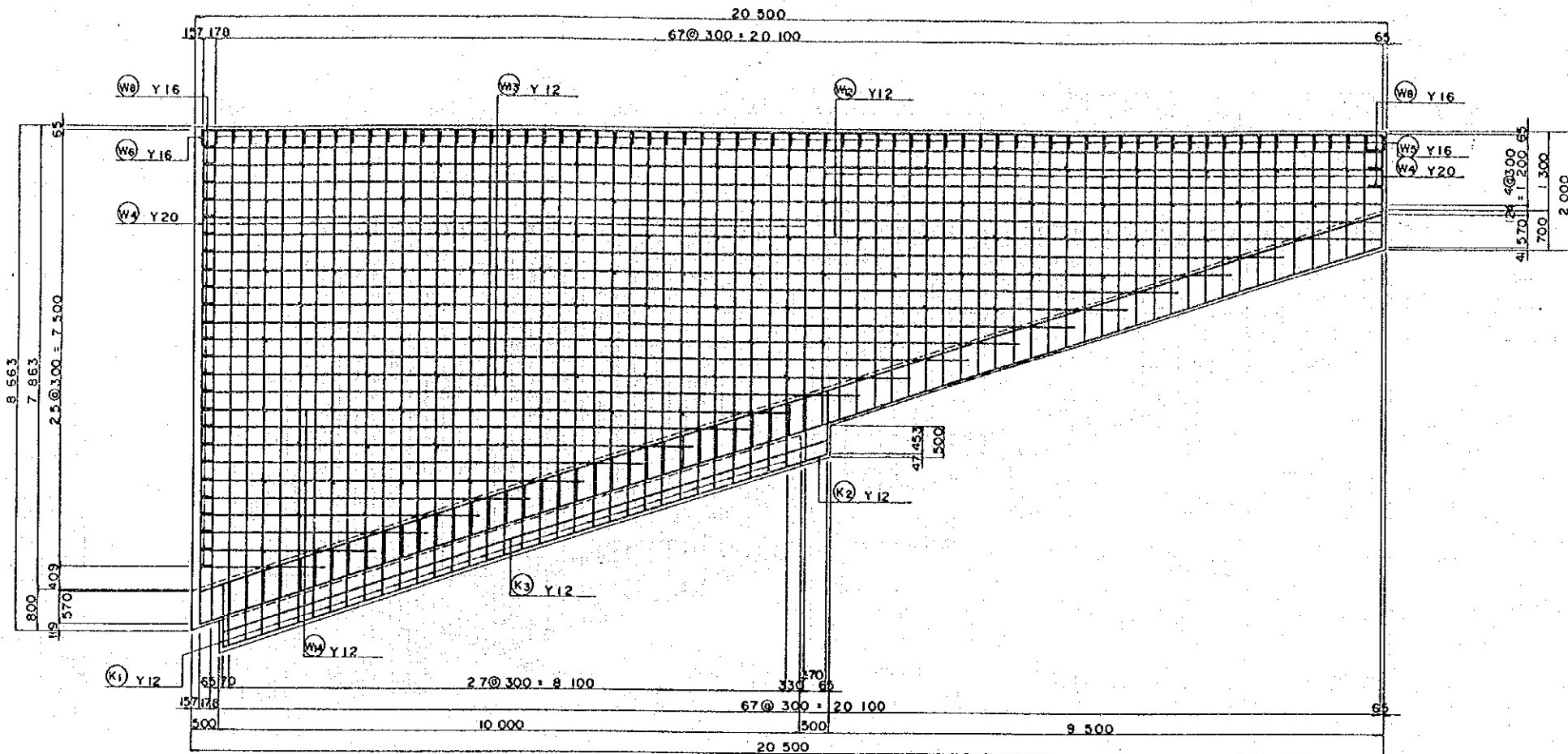
SCALES  
1:100, 1:300

NAIROBI BYPASS  
RAILWAY BRIDGE  
RETAINING WALL (1)

0  
SHEET 65 OF 75

AERIAL PHOTO BY \_\_\_\_\_  
 MAPPING BY \_\_\_\_\_  
 LOCATION BY \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_  
 TRACED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

MOPW ROADS DEPT DRG NO.



8 - 8

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
 CHIEF ENGINEER (ROADS)  
 CHIEF SUPT ENG (DESIGN)

SEN SUPT. ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

SCALES  
 1:50

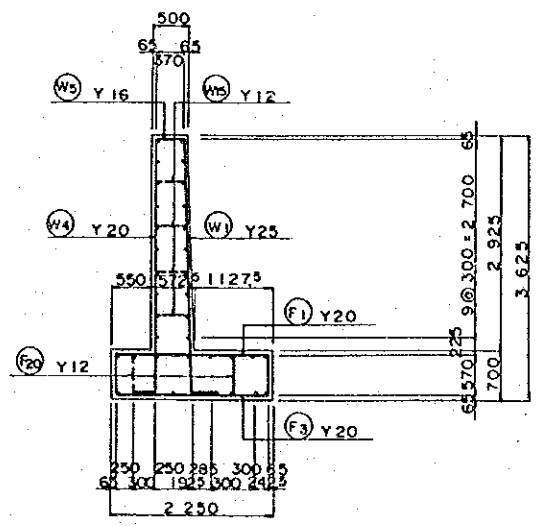
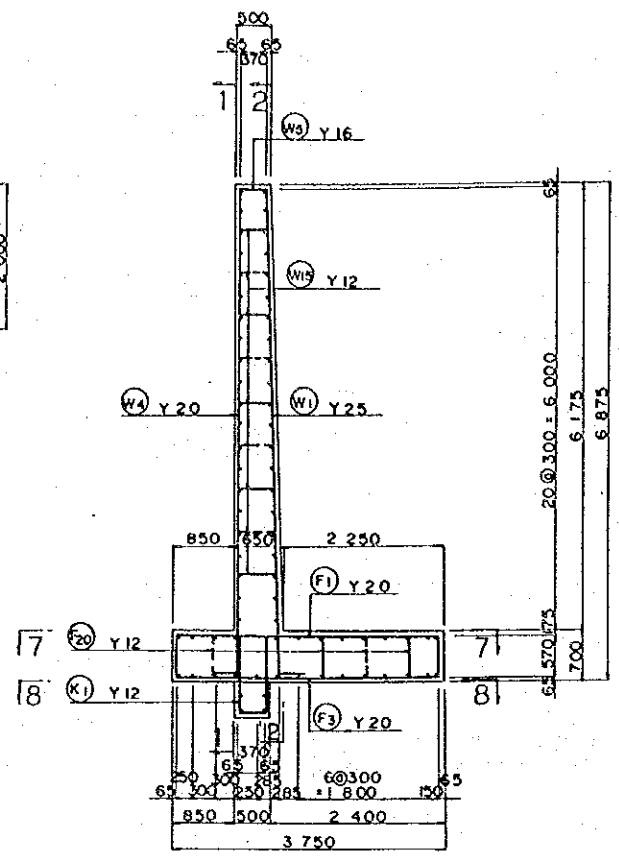
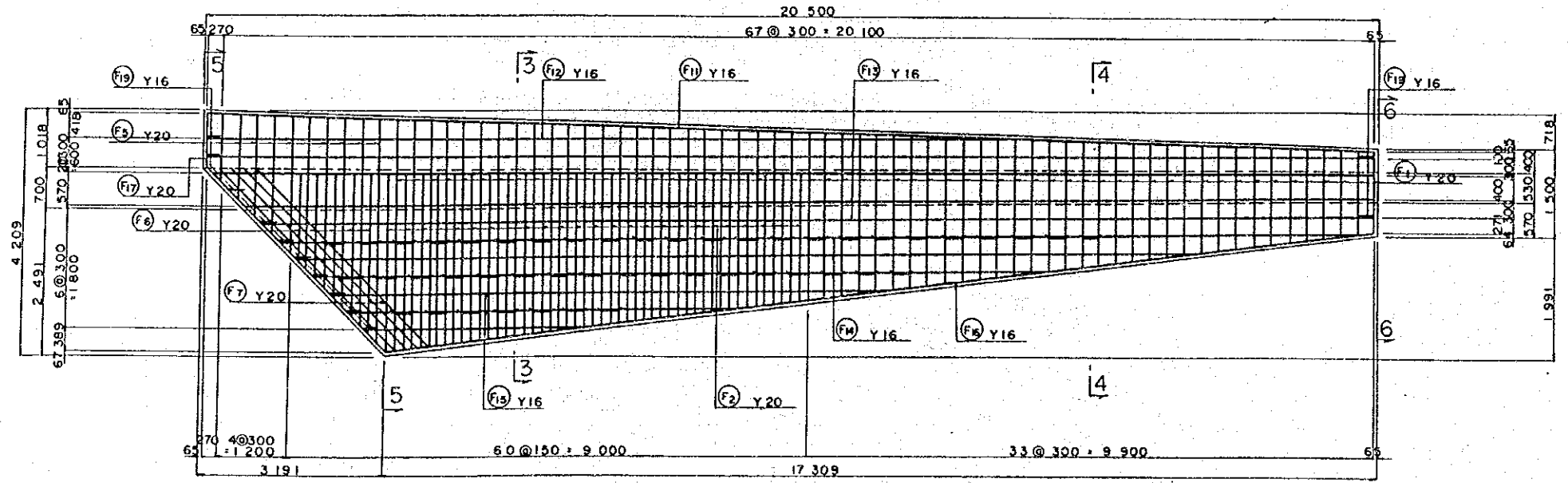
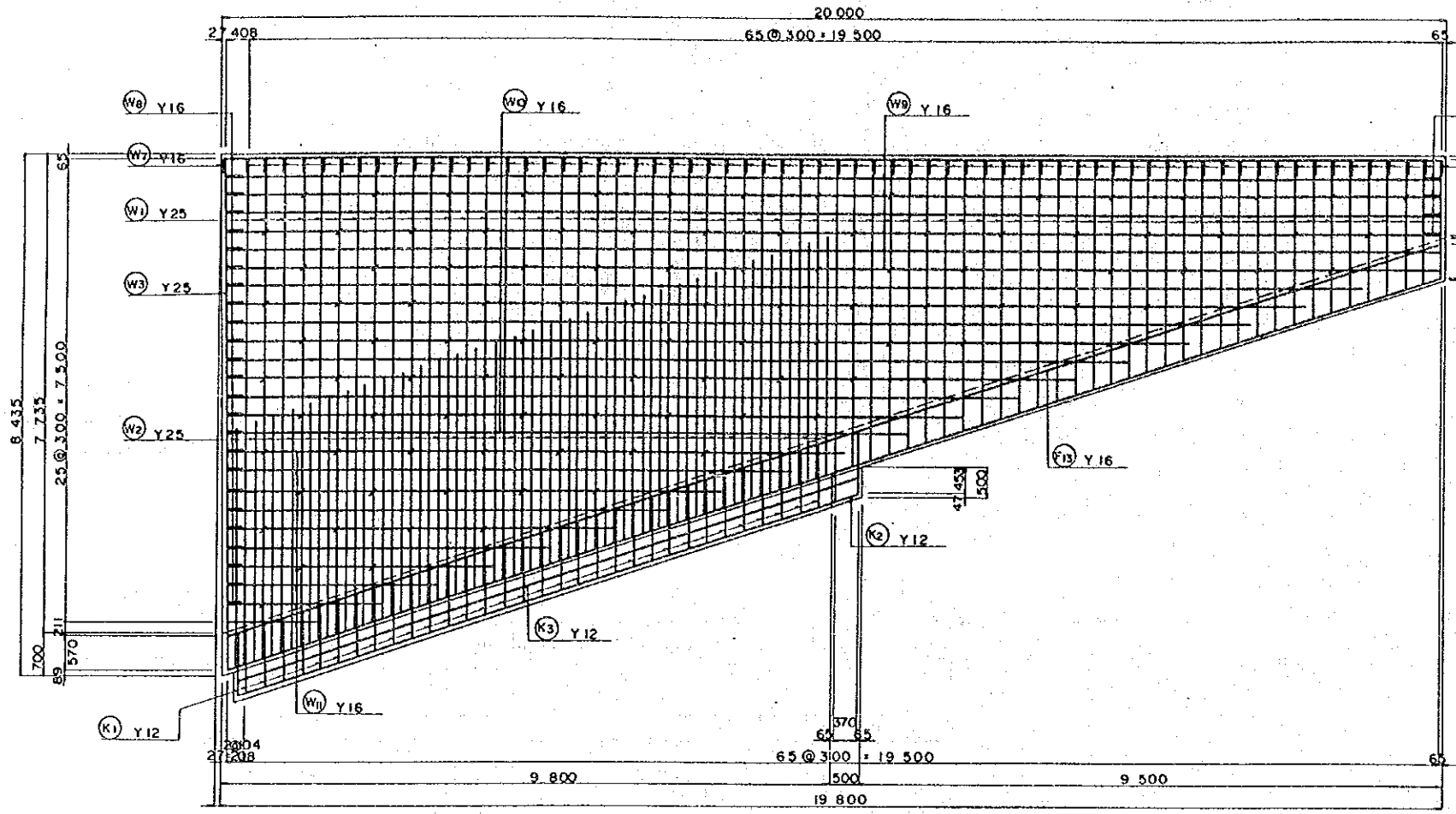
NAIROBI BYPASS  
 RAILWAY BRIDGE  
 RETAINING WALL (1)

0  
 SHEET 66 OF 75



AERIAL PHOTO BY  
MAPPING BY  
LOCATION BY

MOPW ROADS DEPT. DRG. NO.



7 - 7

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

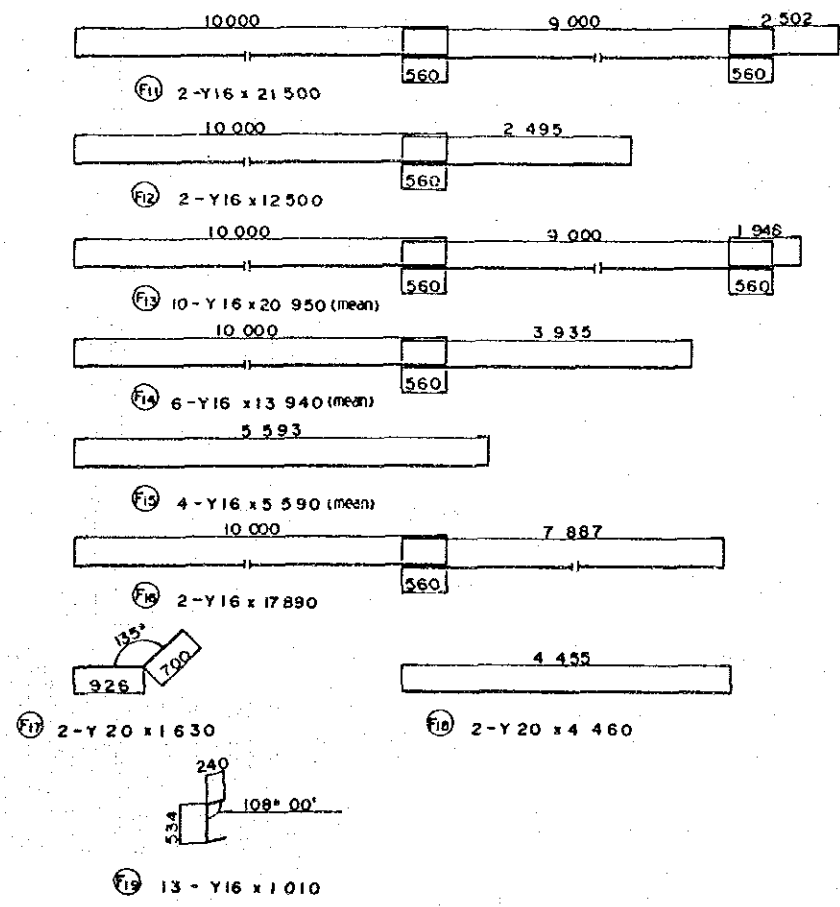
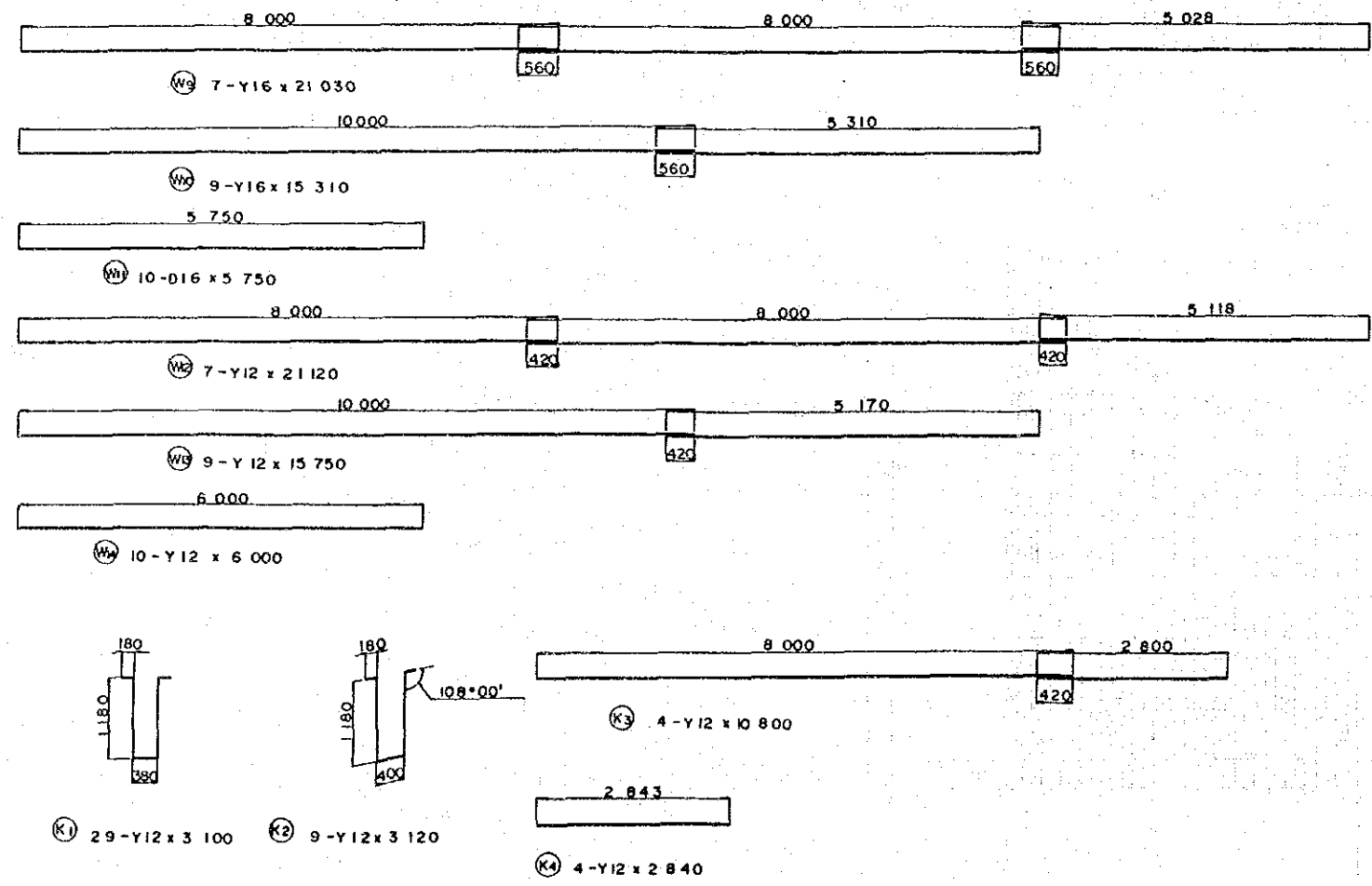
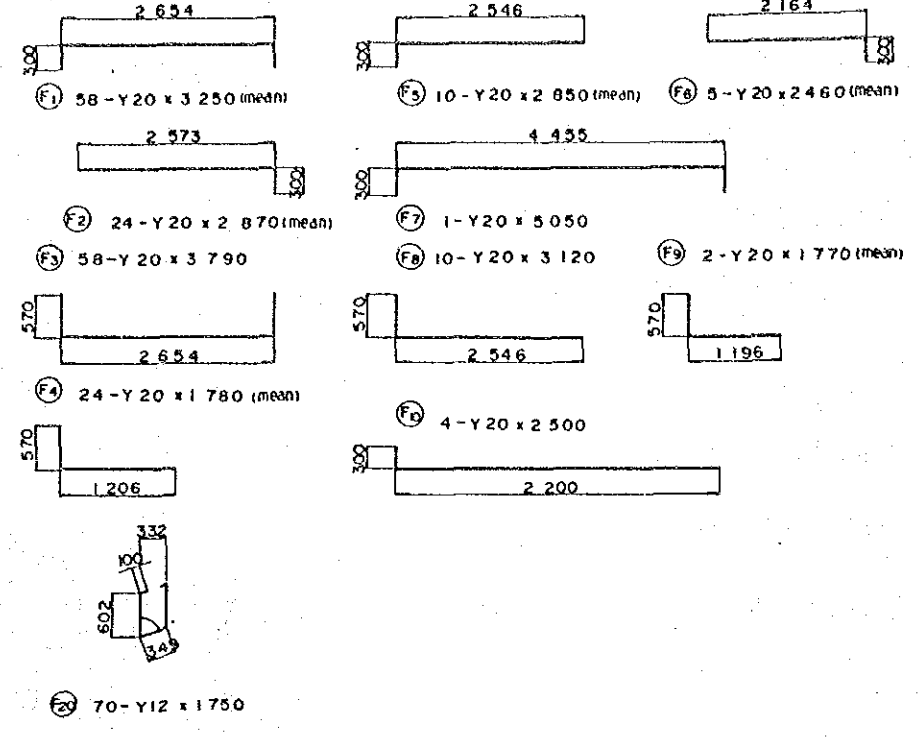
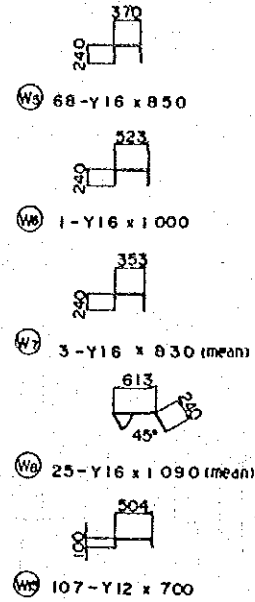
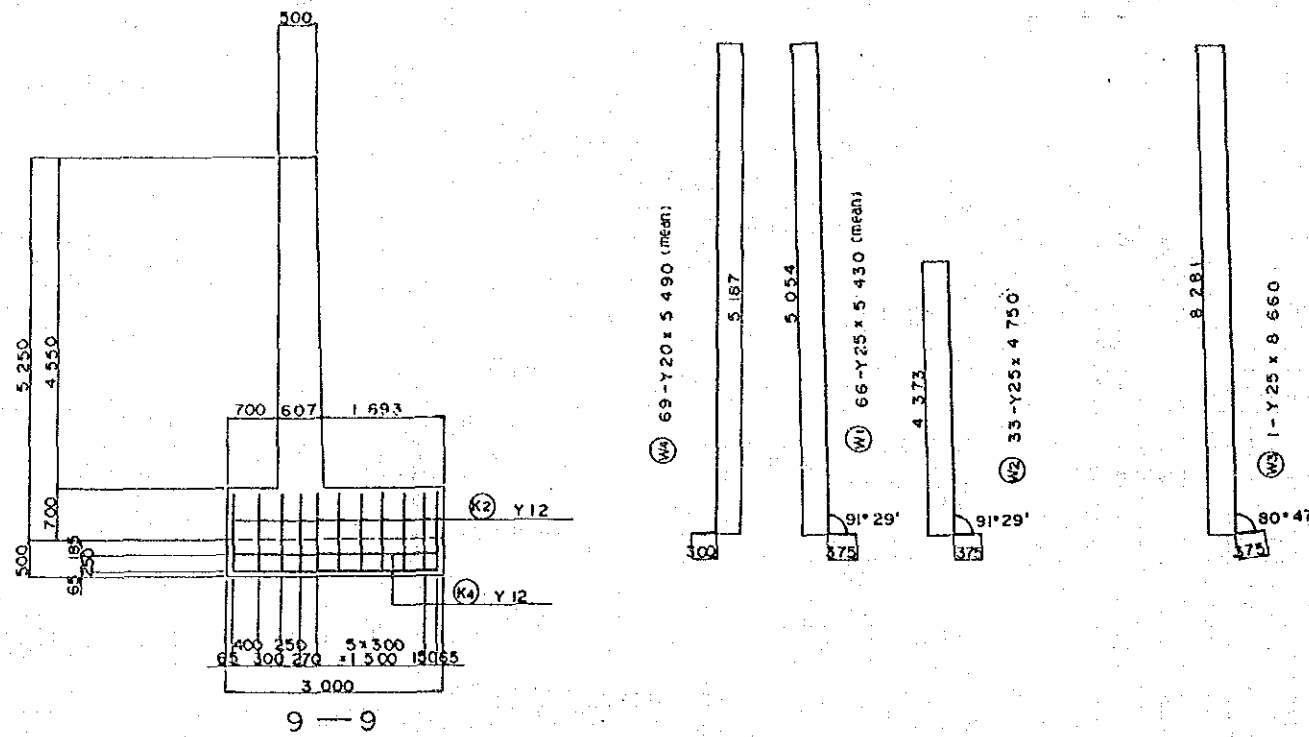
SEN SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
RETAINING WALL (A)

SURVEYED BY  
 TRACED BY  
 CHECKED BY  
 AERIAL PHOTO BY  
 MAPPING BY  
 LOCATION BY

MOPW ROADS DEPT DRG NO.

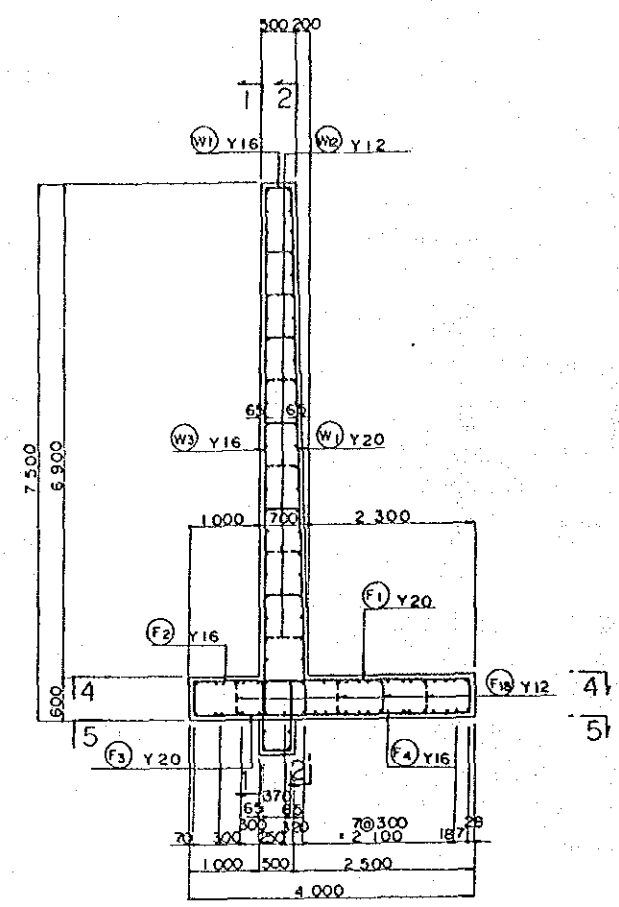


REVISIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)	SEN SUPT. ENG. (DESIGN)	SCALES	NAIROBI BYPASS	O
DESCRIPTION	DATE						
					1:50	RAILWAY BRIDGE RETAINING WALL (4)	SHEET 68 OF 75

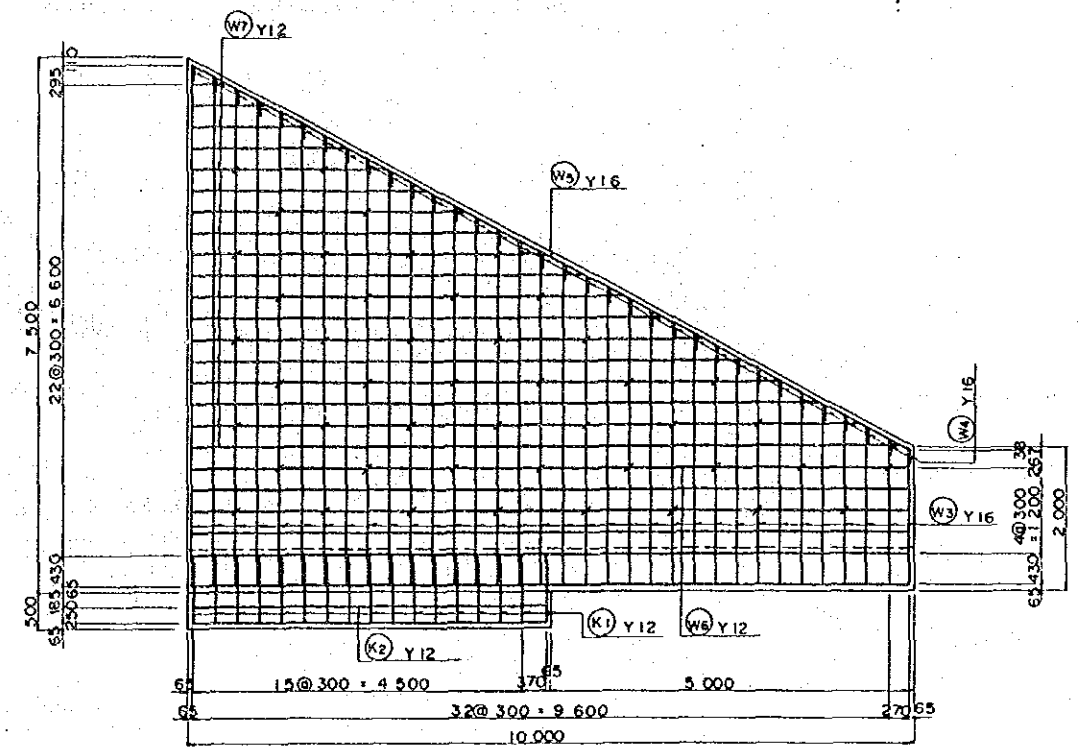
AERIAL PHOTO BY  
MAPPING BY  
LOCATION BY

SURVEYED BY  
TRACED BY  
CHECKED BY

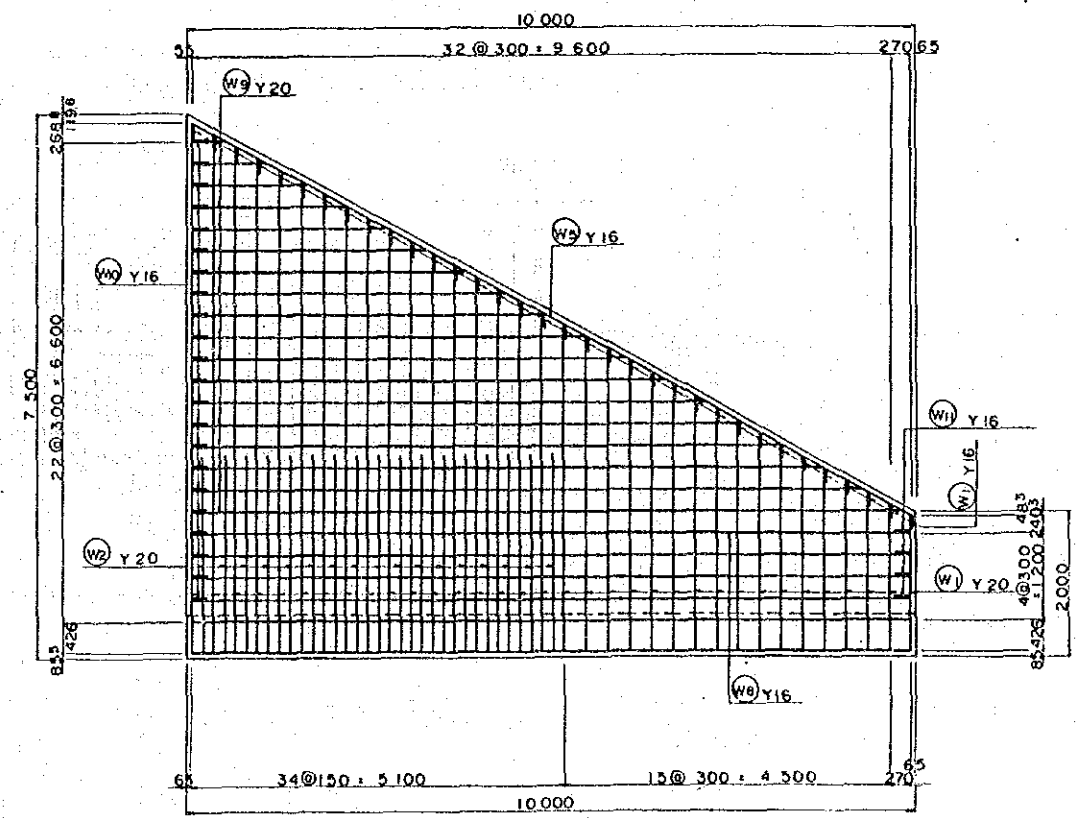
M.O.P.W. ROADS DEPT. DRG. NO.



3 - 3



1 - 1



2 - 2

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

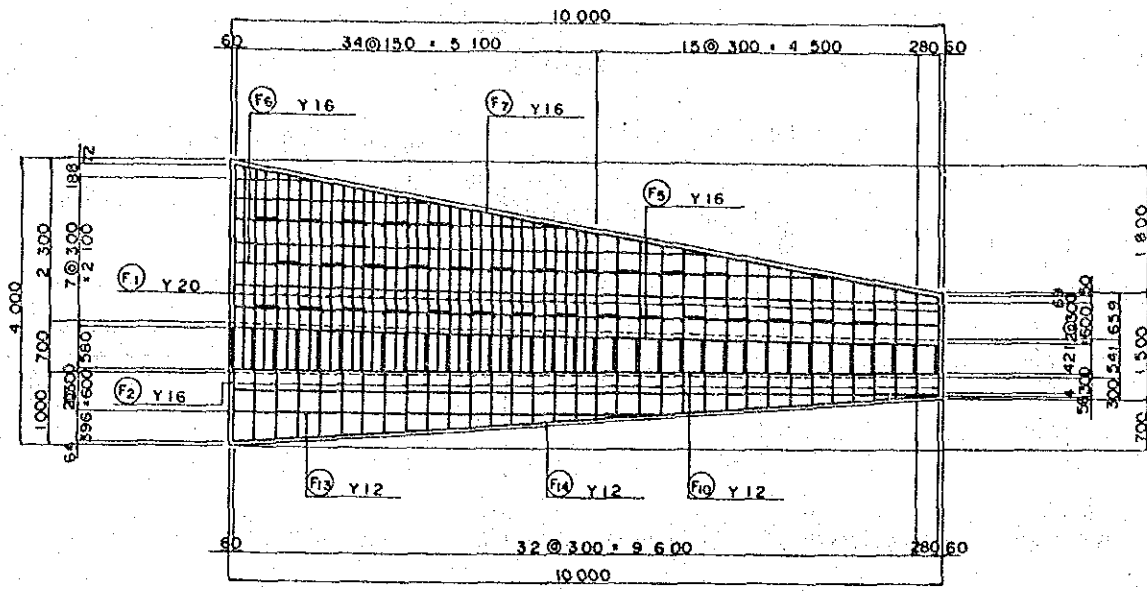
CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

SEN SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

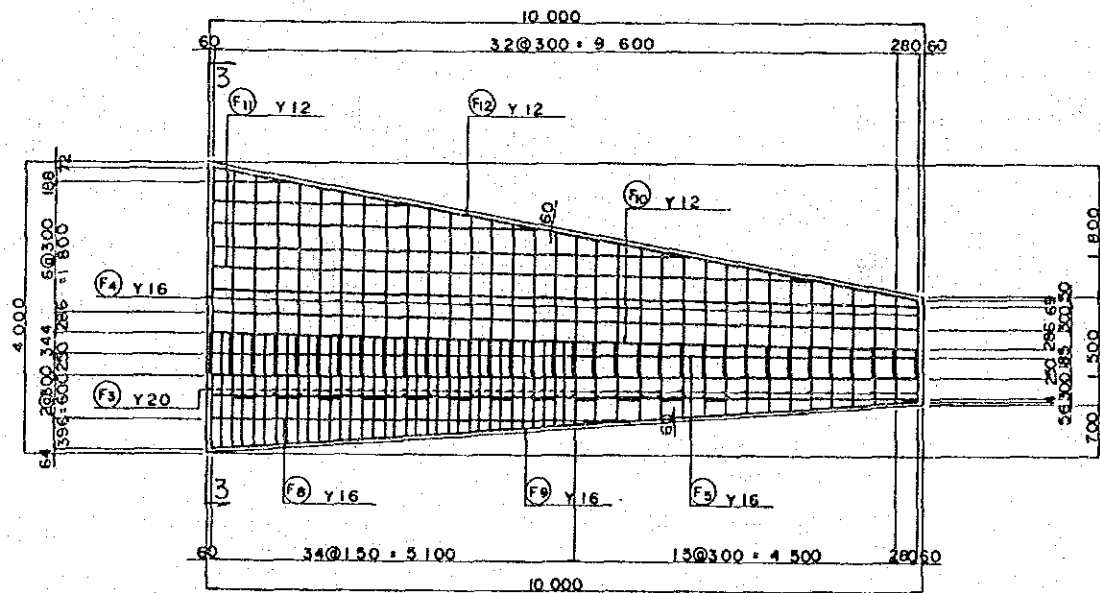
SCALES  
1:50

NAIROBI BYPASS  
RAILWAY BRIDGE  
RETAINING WALL (S)

0  
SHEET 69 OF 75



4 — 4



5 — 5

AERIAL PHOTO. BY	SURVEYED BY
MAPPING BY	TRACED BY
LOCATION BY	CHECKED BY

MOPW ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
 COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
 CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

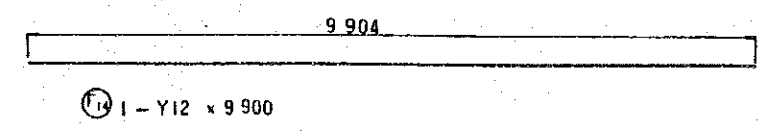
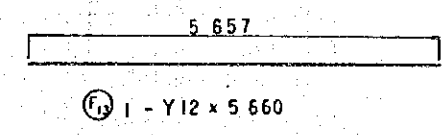
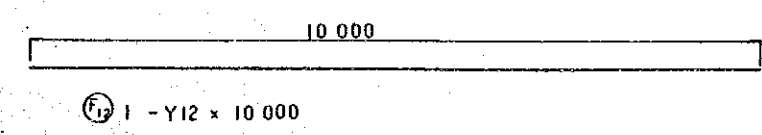
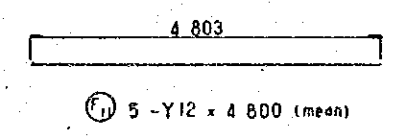
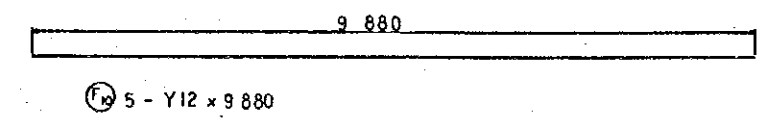
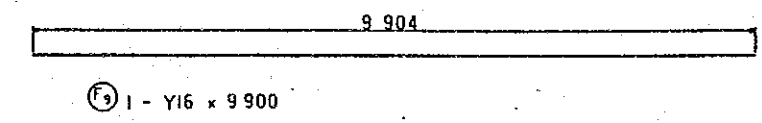
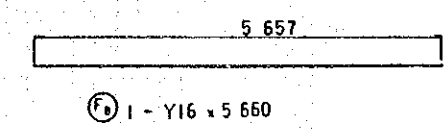
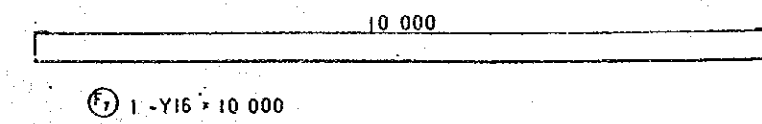
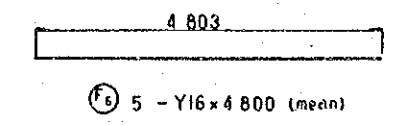
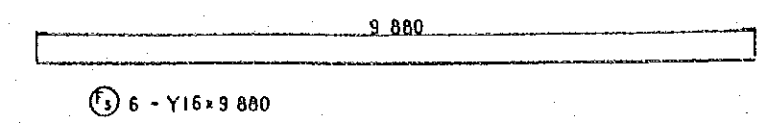
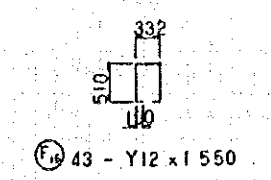
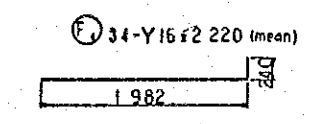
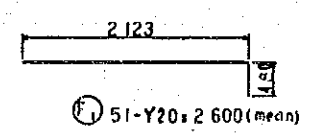
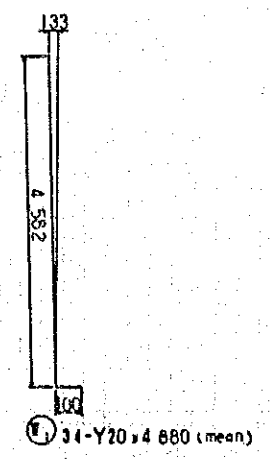
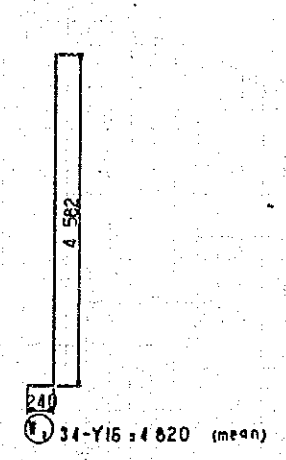
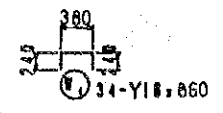
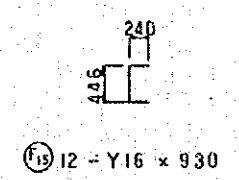
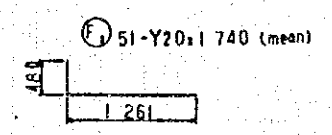
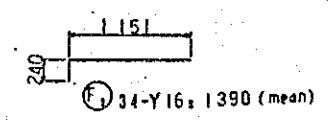
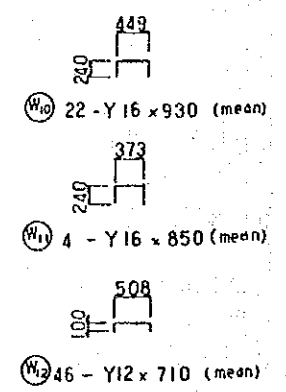
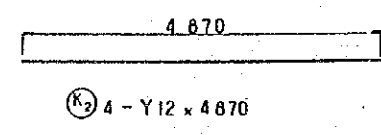
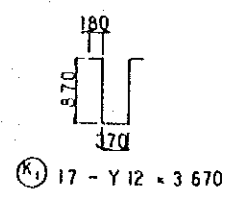
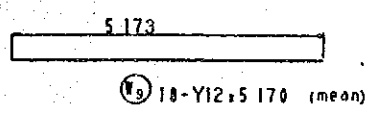
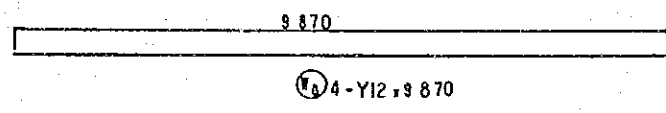
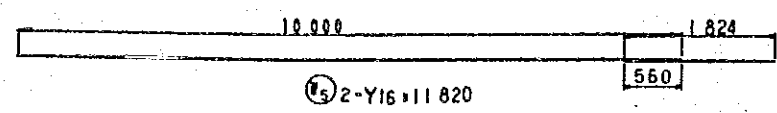
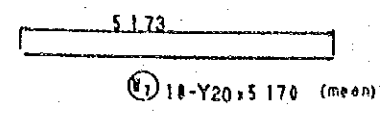
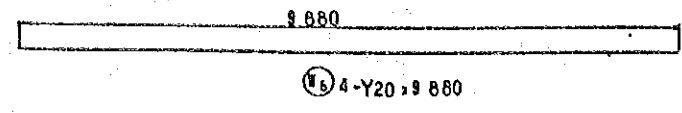
SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 RETAINING WALL

0  
 SHEET 70 OF 75

SURVEYED BY  
 MAPPING BY  
 AERIAL PHOTO BY  
 TRACED BY  
 CHECKED BY  
 LOCATION BY

M.O.P.W. ROADS DEPT. DRG. NO.



REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT. ENG. (DESIGN)

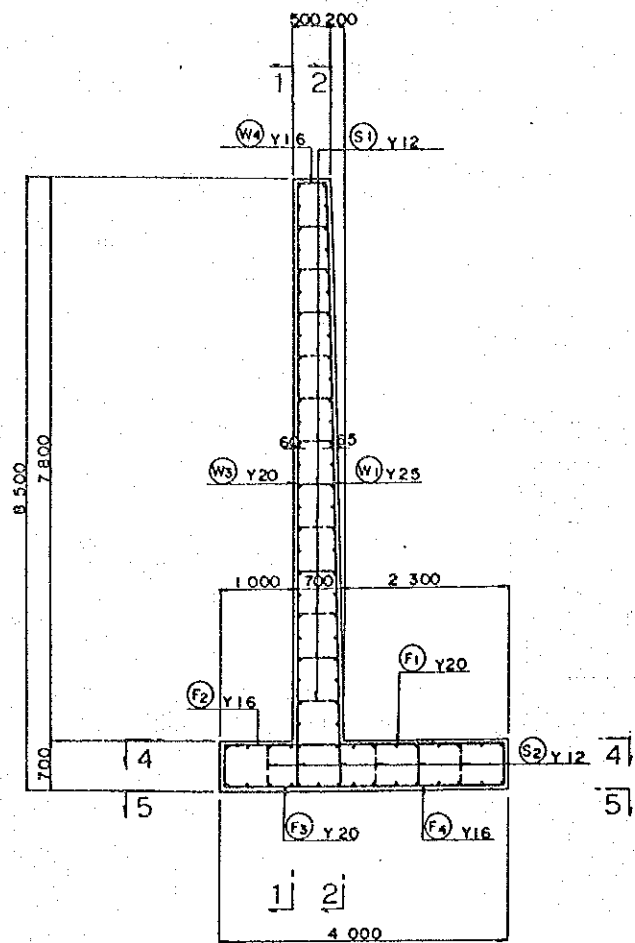
SEN. SUPT. ENG. (DESIGN)  
SUPT. ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:50

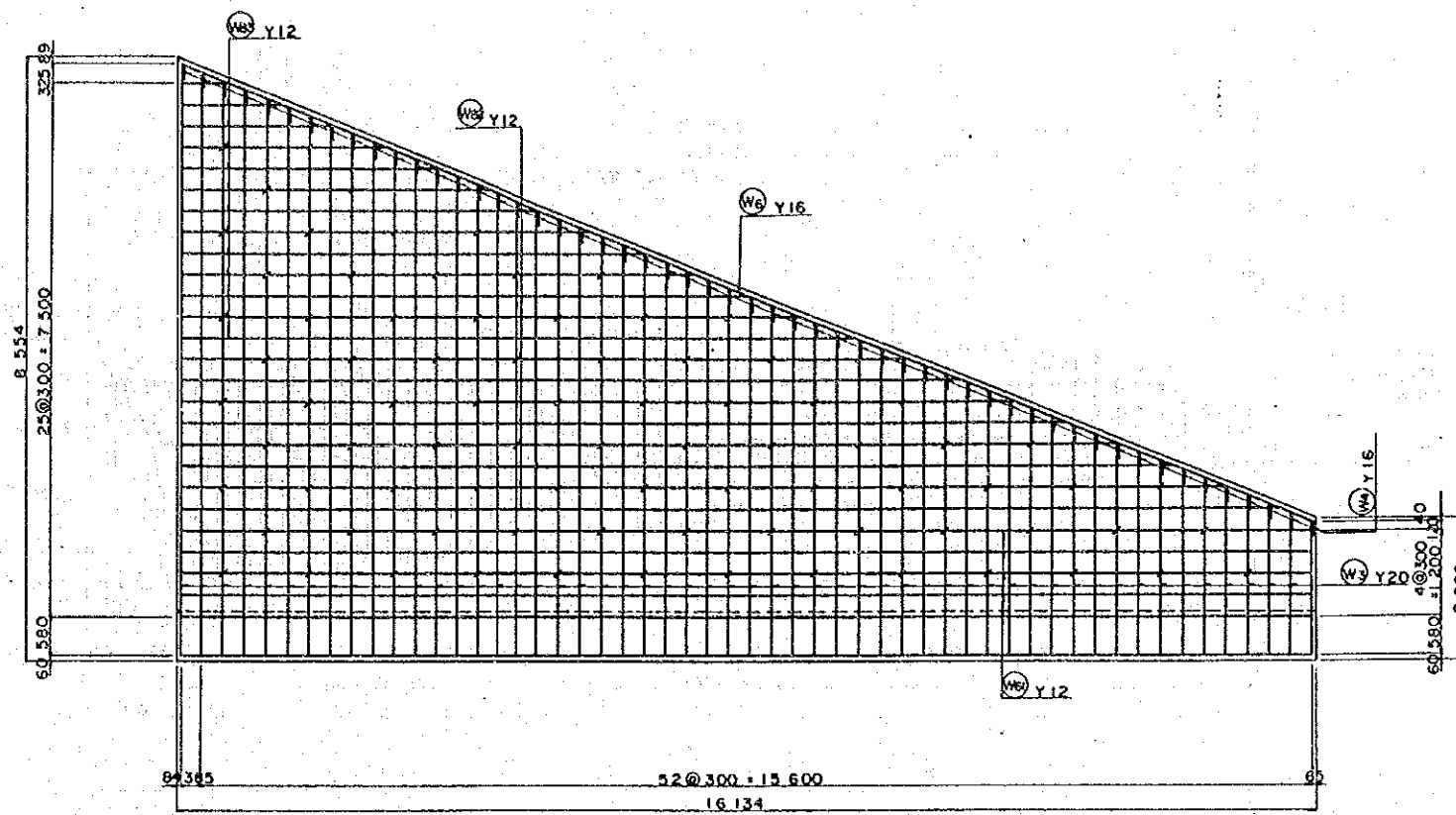
NAIROBI BYPASS  
RAILWAY BRIDGE  
RETAINING WALL (1) (2)

AERIAL PHOTO BY  
MAPPING BY  
LOCATION BY

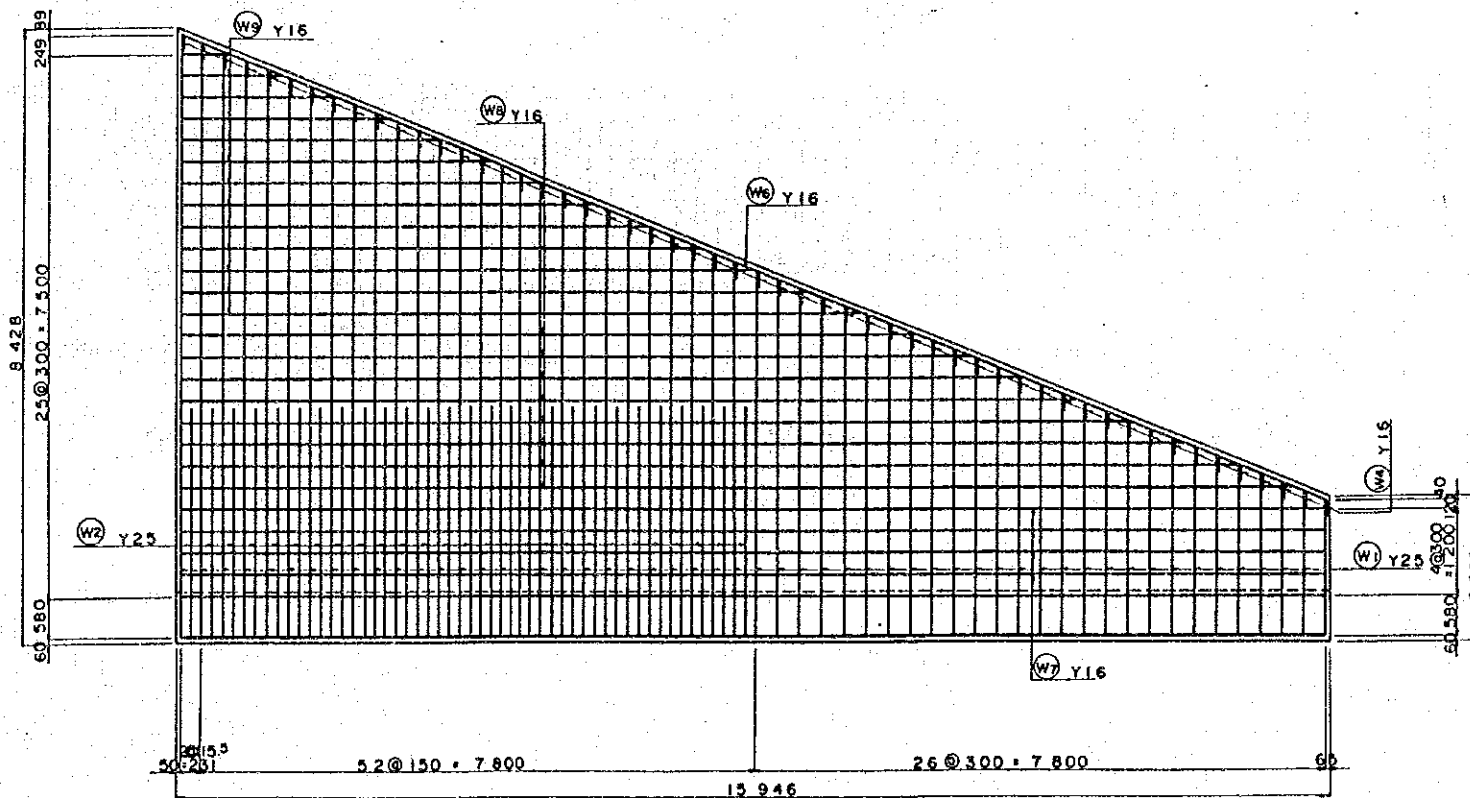
M.O.P.W. ROADS DEPT DRG NO.



3 - 3



1 - 1



2 - 2

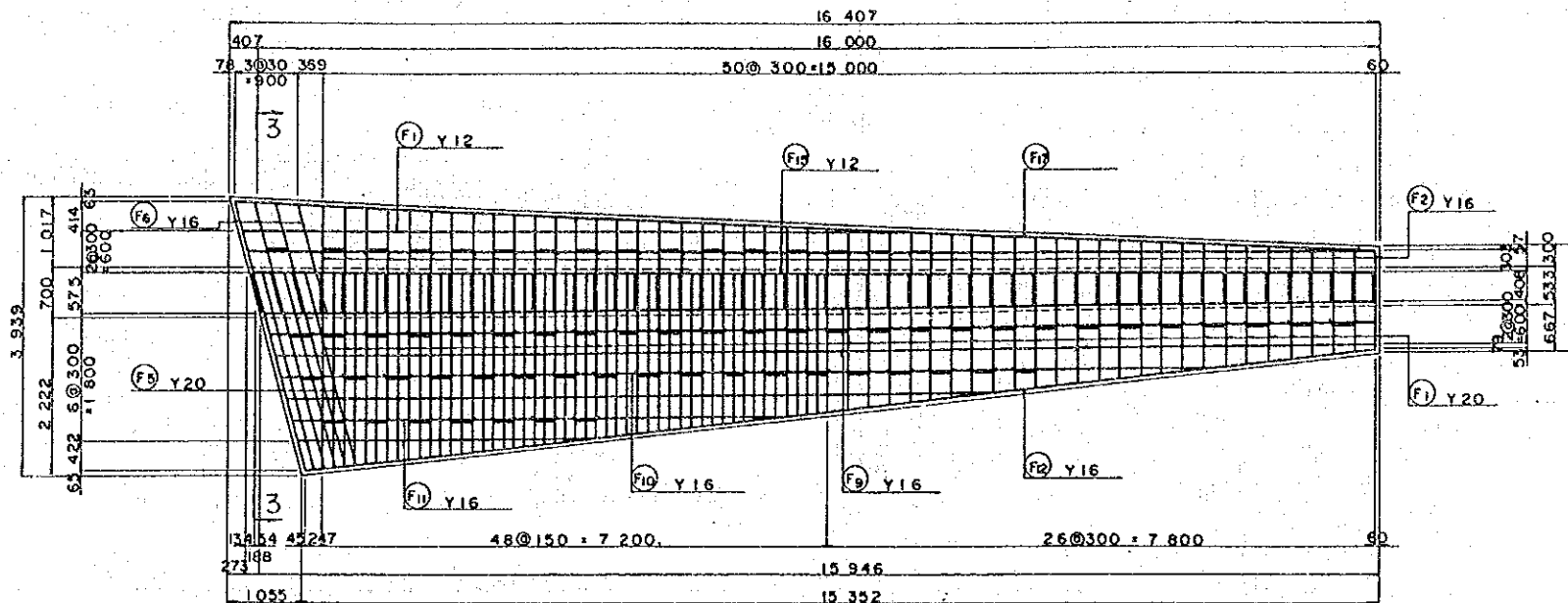
REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
 CHIEF ENGINEER (ROADS)  
 CHIEF SUPT ENG (DESIGN)

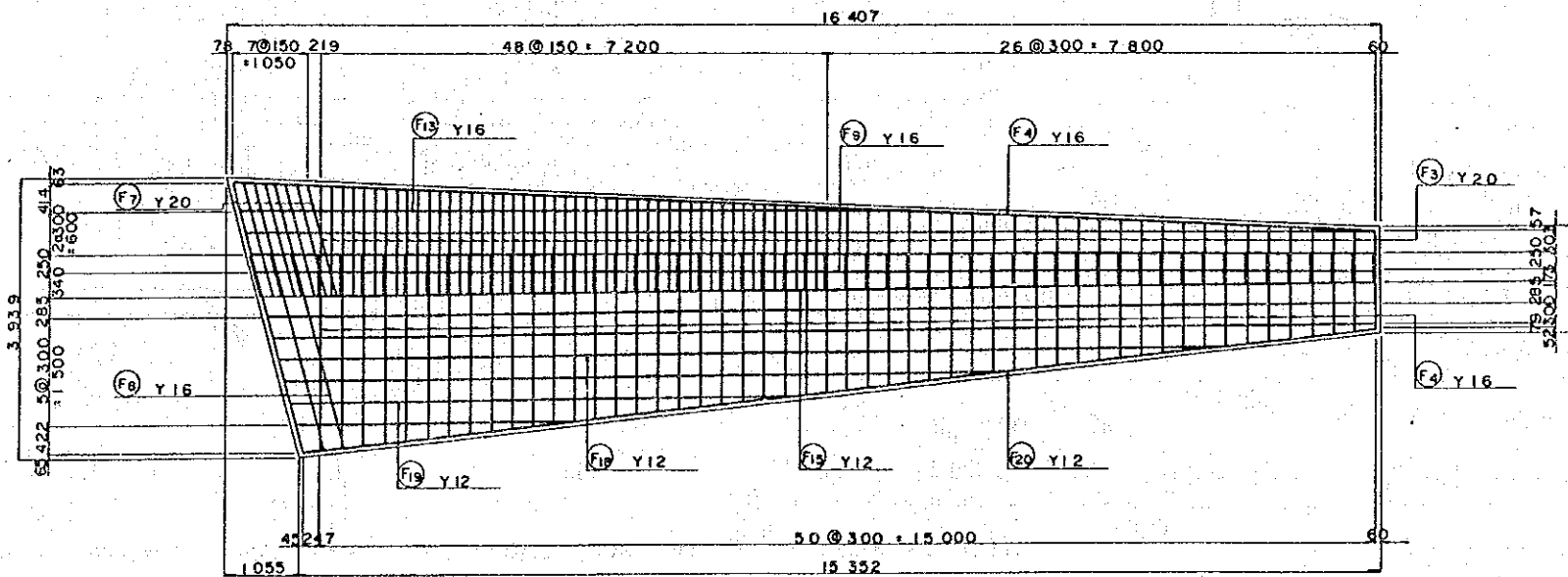
SEN SUPT. ENG (DESIGN)  
 SUPT ENGINEER (DESIGN)  
 PROJECT ENGINEER

SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 RETAINING WALL (B)



4 — 4



5 — 5

AERIAL PHOTO BY  
MAPPING BY  
LOCATION BY

SURVEYED BY  
TRACED BY  
CHECKED BY

MOPW ROADS DEPT. DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY  
 CHIEF ENGINEER (ROADS)  
 CHIEF SUPT. ENG. (DESIGN)

SEN SUPT. ENG. (DESIGN)  
 SUPT. ENGINEER (DESIGN)  
 PROJECT ENGINEER

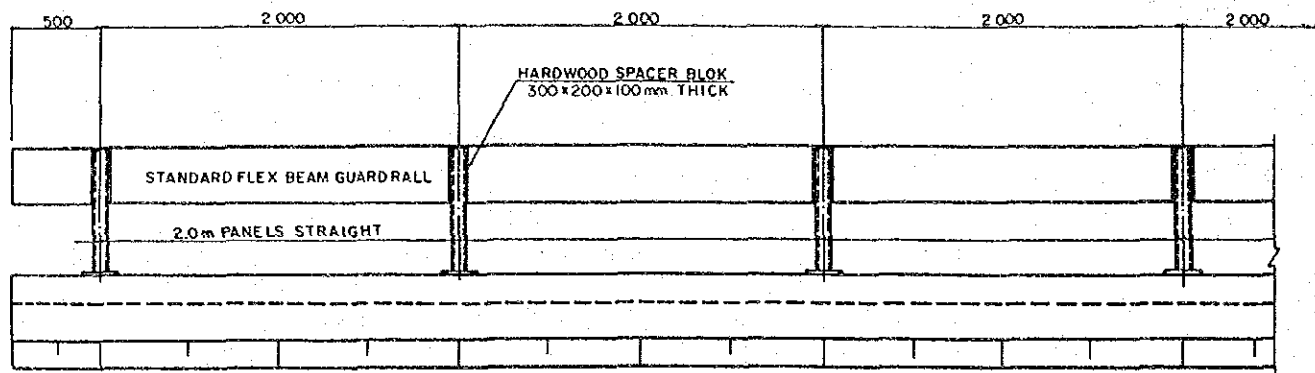
SCALES  
 1:50

NAIROBI BYPASS  
 RAILWAY BRIDGE  
 RETAINING WALL 101

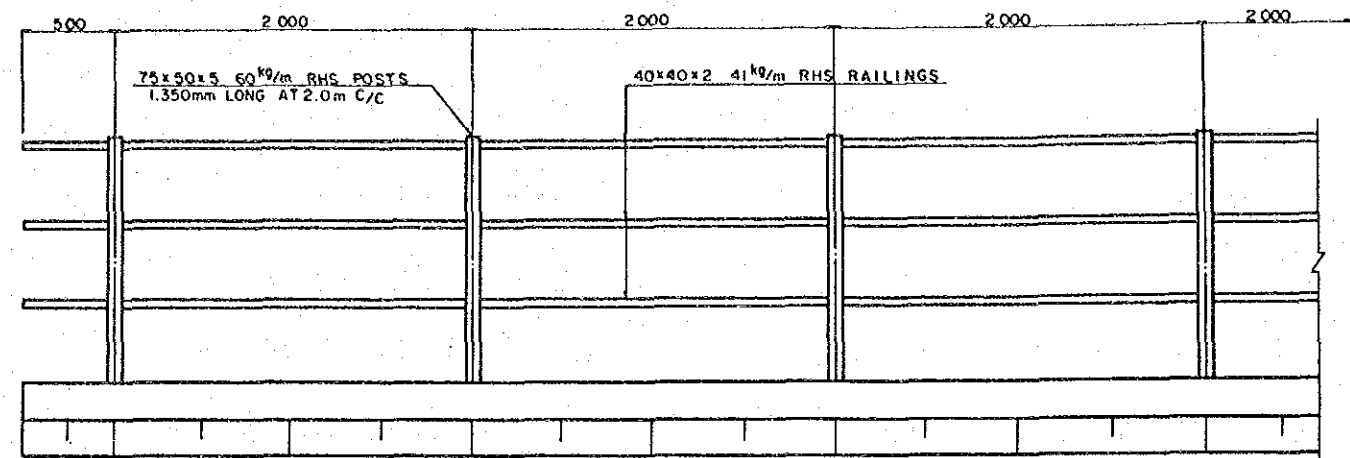
0  
 SHEET 73 OF 75



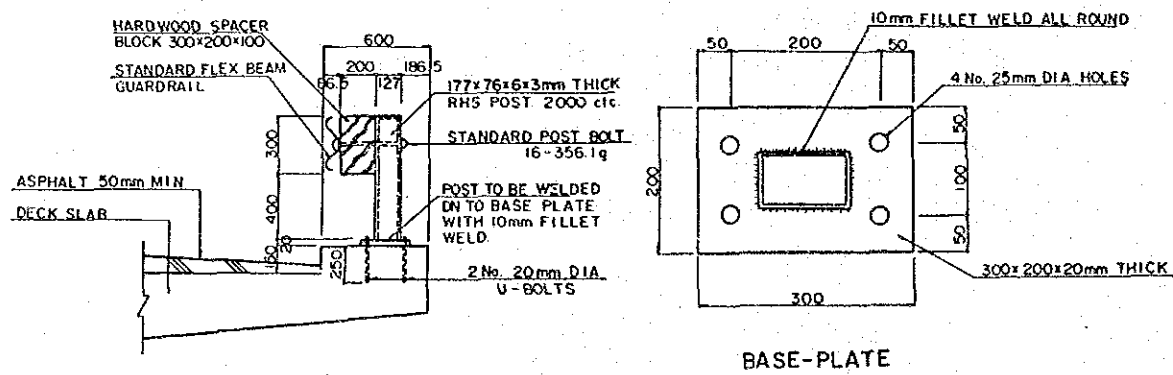




PROFILE SCALE 1:20

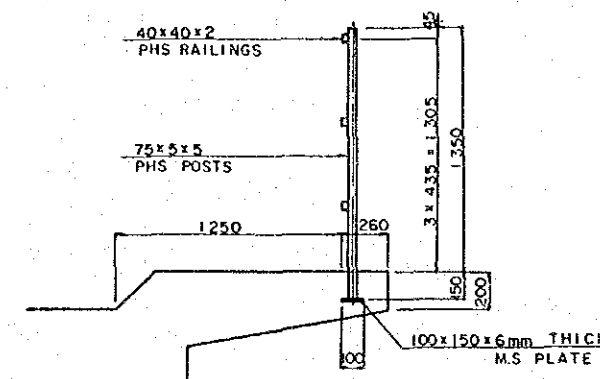


PROFILE SCALE 1:20



CROSS SECTION SCALE 1:20

VEHICLE BRIDGE PARAPET



CROSS SECTION SCALE 1:20

RAILWAY BRIDGE PRAPET

SURVEYED BY  
 TRACED BY  
 CHECKED BY  
 AERIAL PHOTO BY  
 MAPPING BY  
 LOCATION BY

M.O.P.W. ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL  
COOPERATION AGENCY

CHIEF ENGINEER (ROADS)  
CHIEF SUPT ENG (DESIGN)

SEN SUPT ENG (DESIGN)  
SUPT ENGINEER (DESIGN)  
PROJECT ENGINEER

SCALES  
1:20

NAIROBI BYPASS  
RAILWAY BRIDGE  
PARAPET

0  
SHEET 75 OF 75



