



REPUBLIC OF KENYA

MINISTRY OF PUBLIC WORKS

THE NAIROBI BYPASS PROJECT

DETAILED DESIGN STUDY

FINAL REPORT

PART II

VOLUME 8

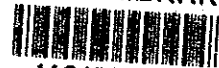
(DRAWINGS)

SEPTEMBER 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

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REPUBLIC OF KENYA

MINISTRY OF PUBLIC WORKS

THE NAIROBI BYPASS PROJECT

DETAILED DESIGN STUDY

FINAL REPORT

PART II

VOLUME 8

(DRAWINGS)

SEPTEMBER 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団

24902

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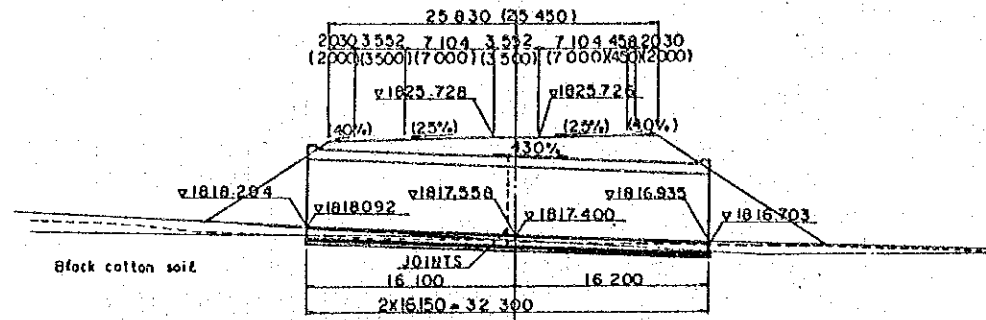
	SHEET NUMBER	DESCRIPTION	SCALE	M. O. P. W NUMBER
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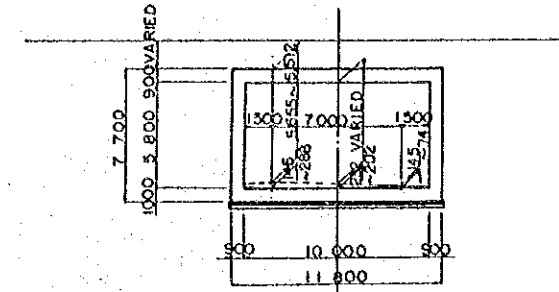
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M.O.P.W. ROADS DEPT DRG NO.

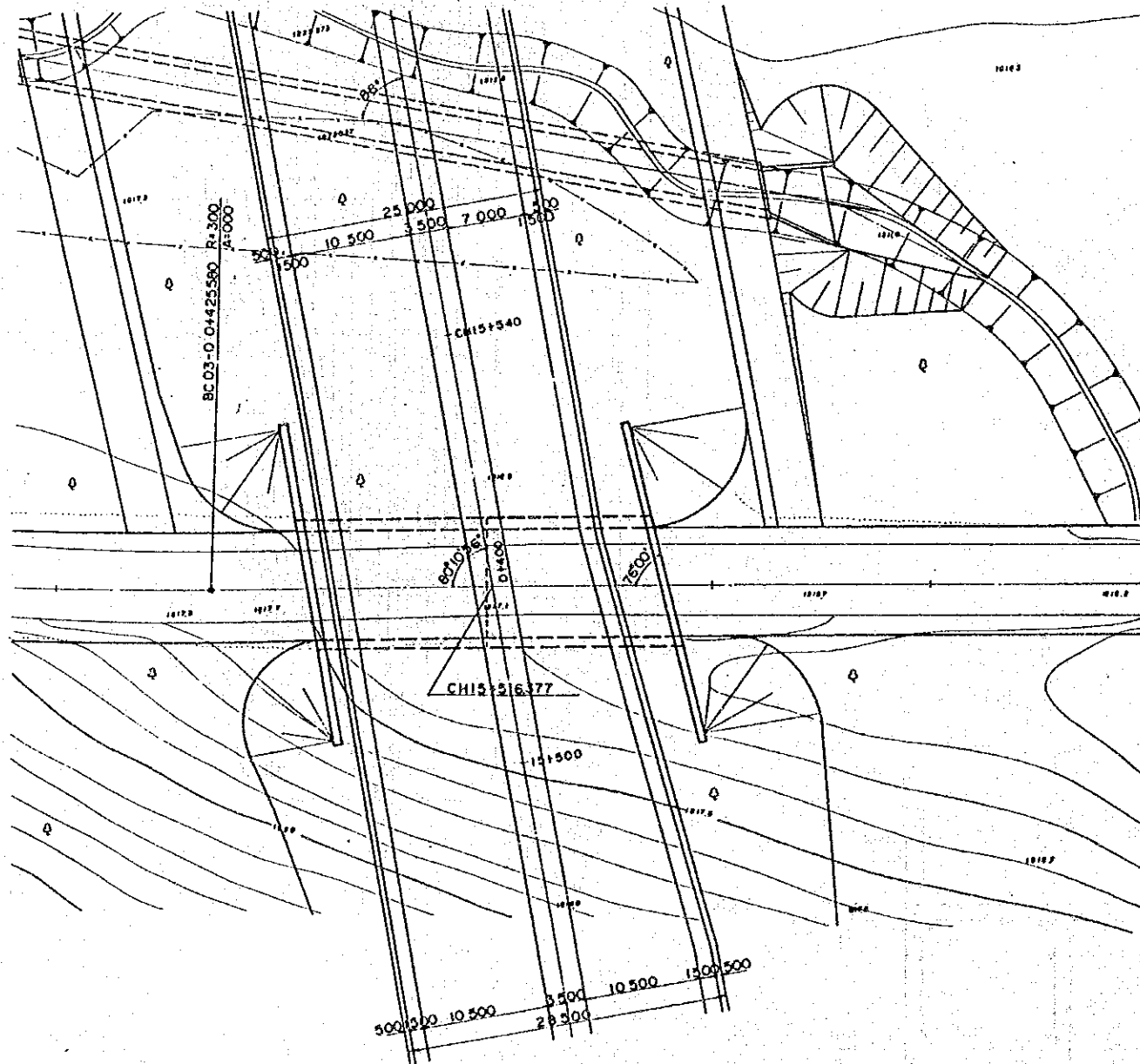
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DESCRIPTION	DATE						



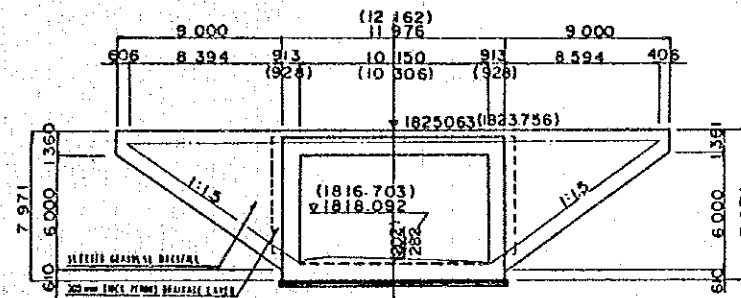
PROFILE SCALE 1:300



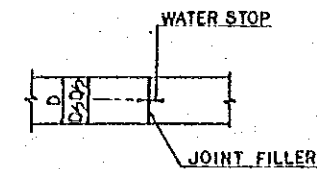
CROSS SECTION SCALE 1:200



PLAN SCALE 1:300



LEFT WING (RIGHT WING)
ELEVATION OF WING WALL SCALE 1:200



DETAIL OF JOINTS

NO 1 BOX CLVERT FOR ROAD

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MOPW ROADS DEPT DRG NO.

REVISIONS	DESCRIPTION	DATE

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CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

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

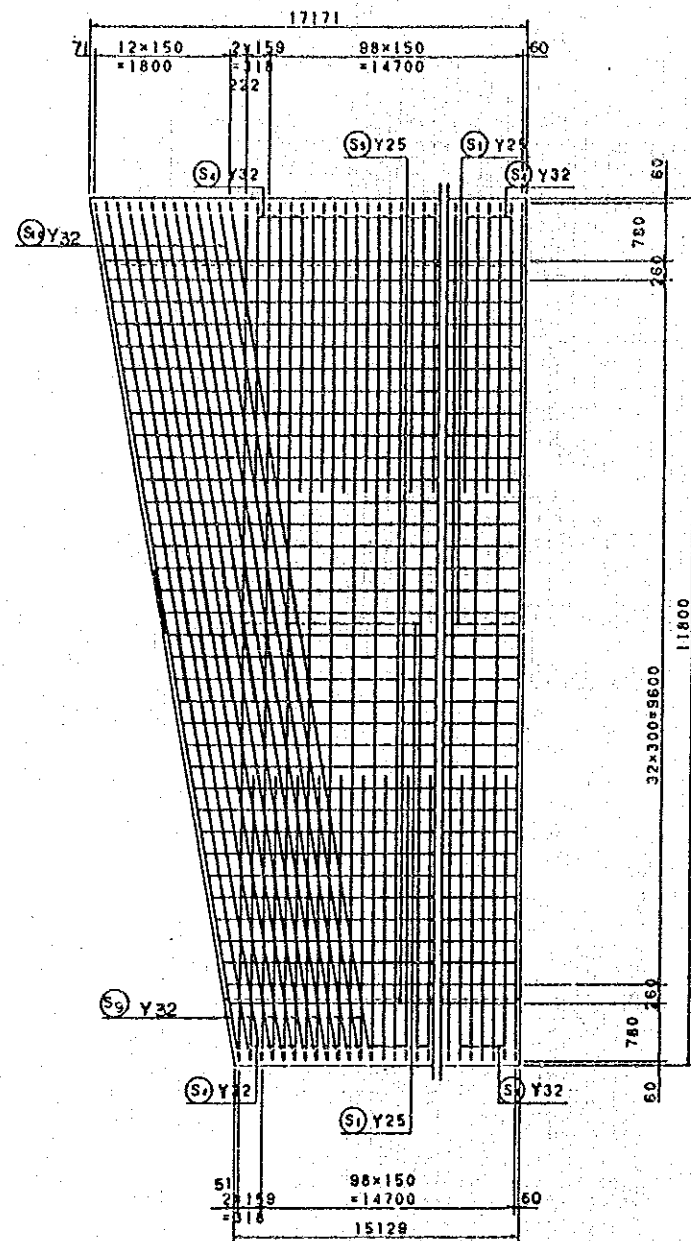
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NAIROBI BYPASS
VEHICLE BOX CULVERTS NO 1
CN 15+516.37 R=10.00 R+1.00 (1)

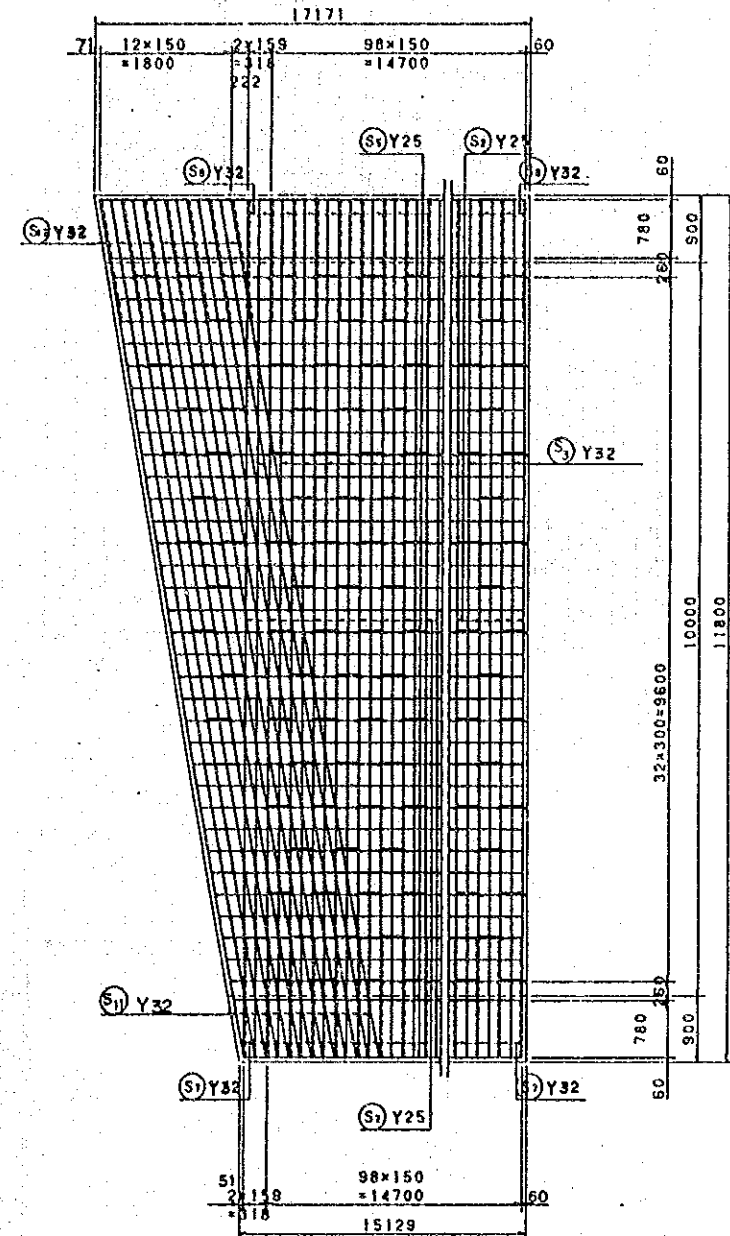
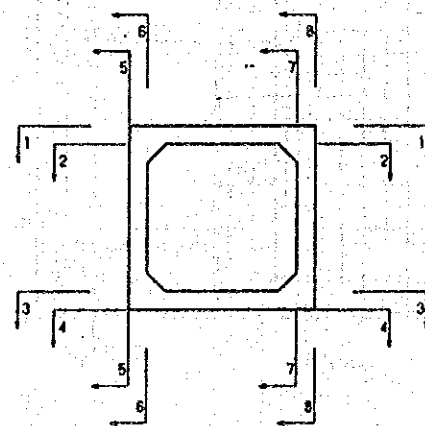
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REVISIONS	
DESCRIPTION	DATE

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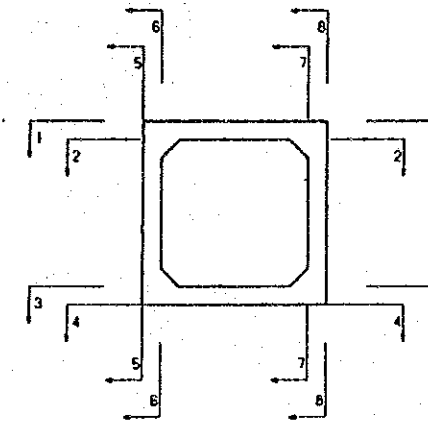
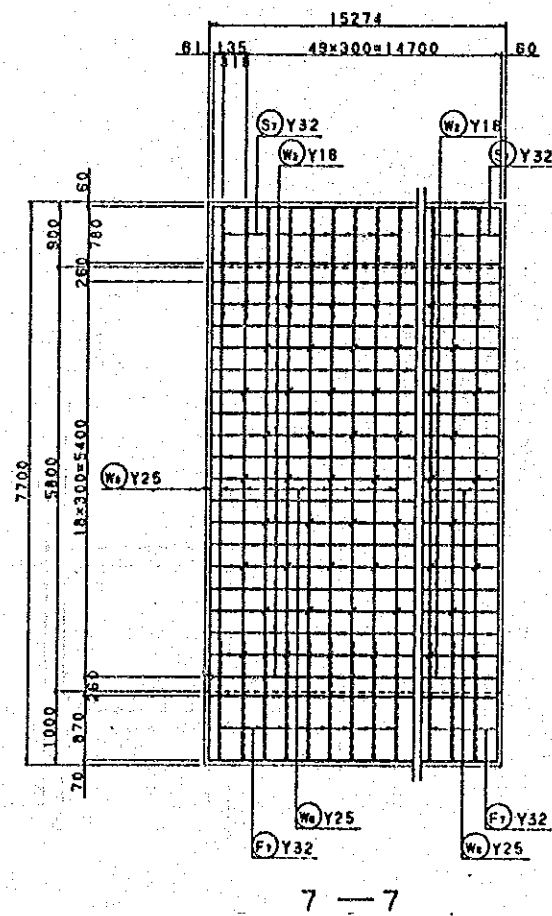
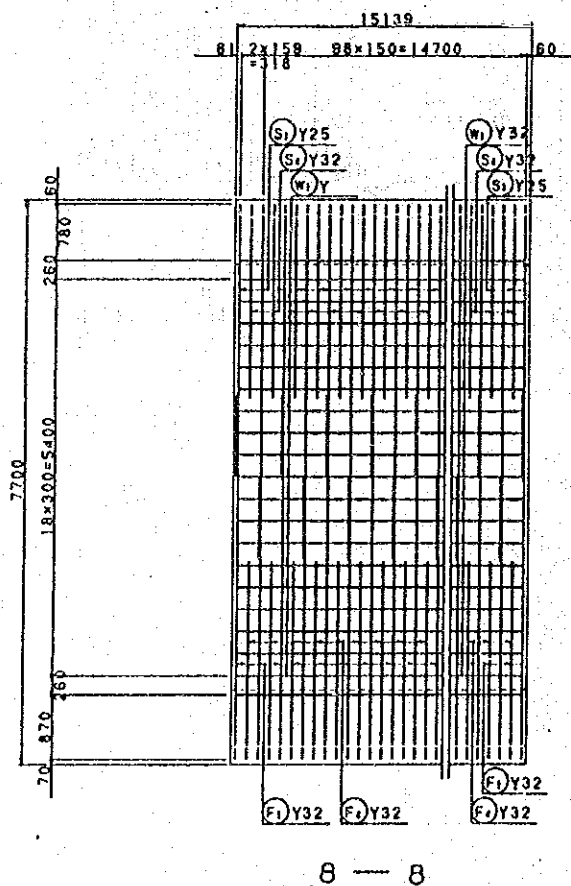
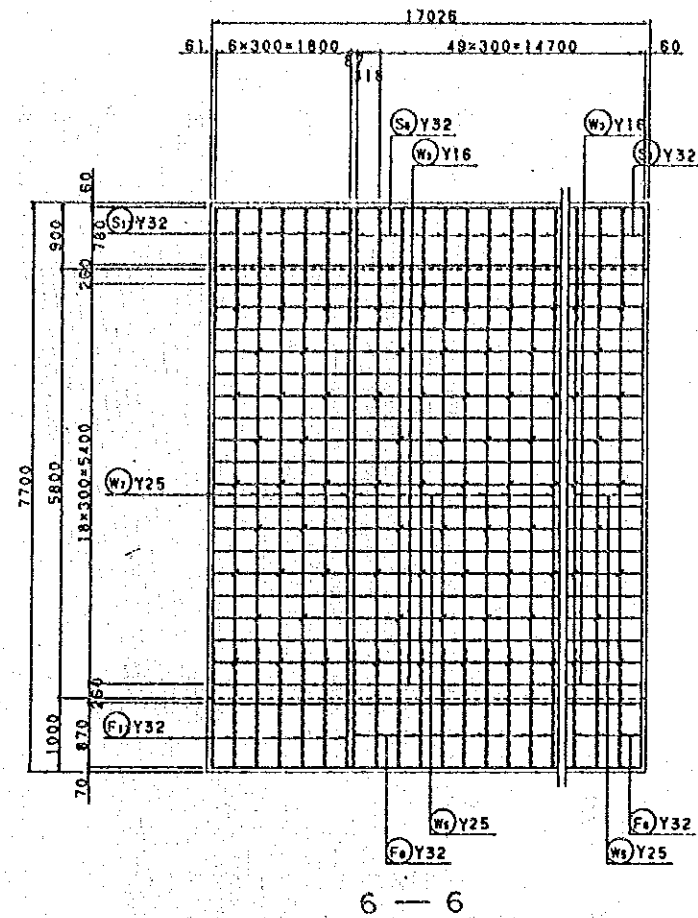
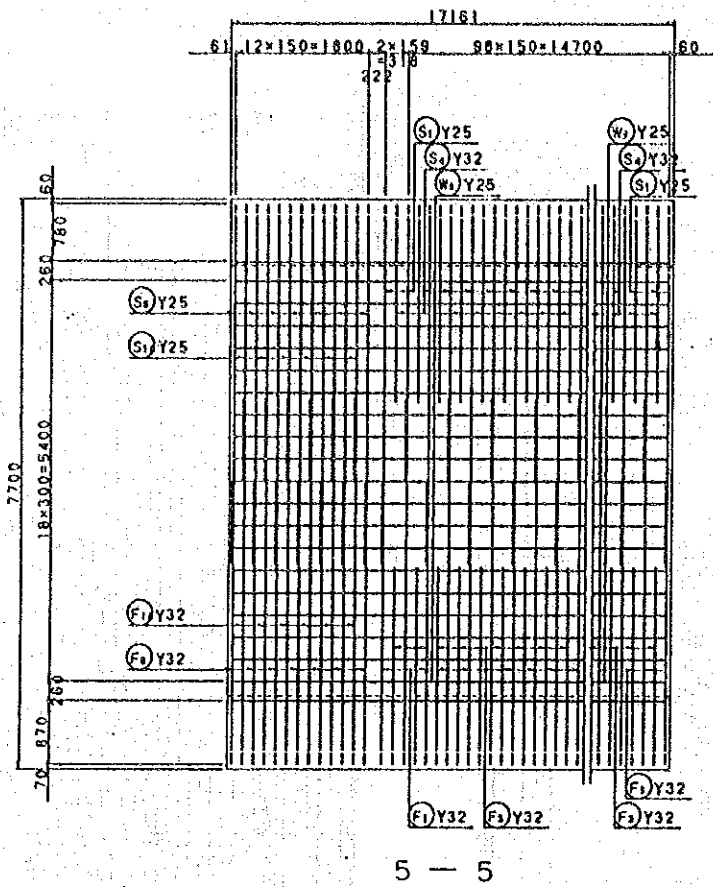
CHIEF ENGINEER (ROADS)
CHIEF SUPT. ENG. (DESIGN)

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

SCALES
1:50

NAIROBI BYPASS
VEHICLE BOX CULVERTS
CR 15+516.37 W-10.00 R-1.00 (2)

Q
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CHIEF SUPT. ENG. (DESIGN)

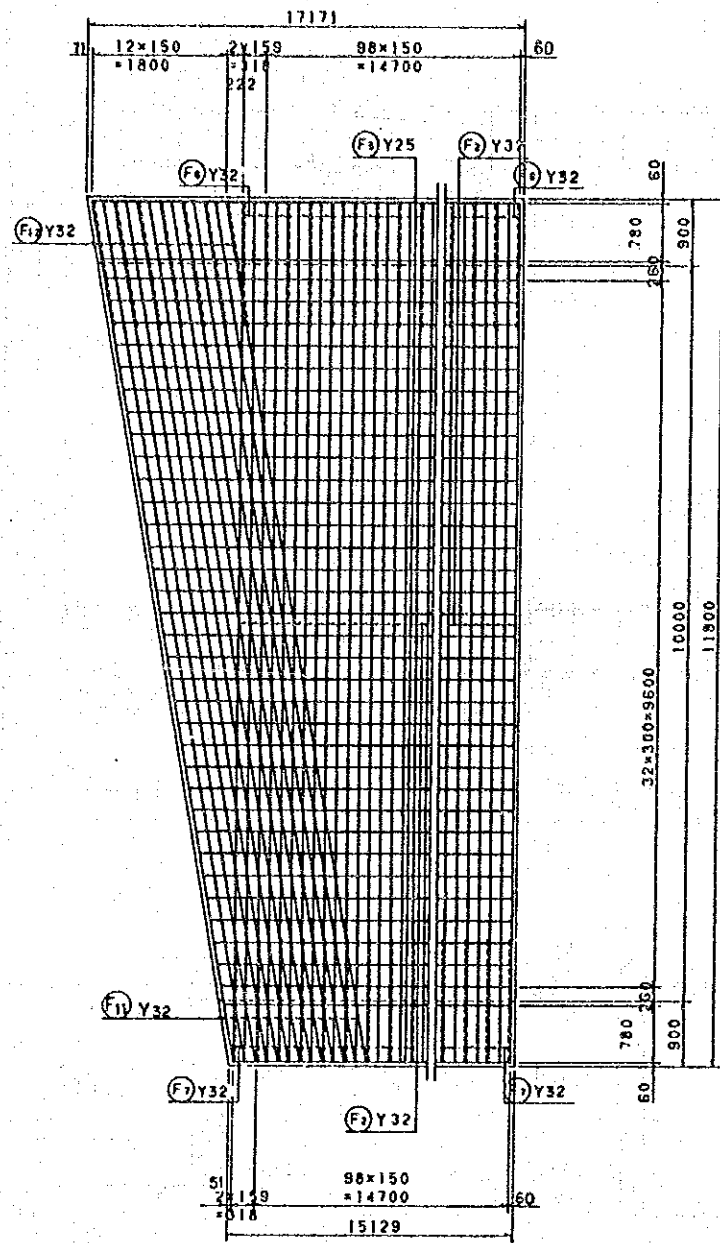
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SUPT. ENGINEER (DESIGN)
PROJECT ENGINEER

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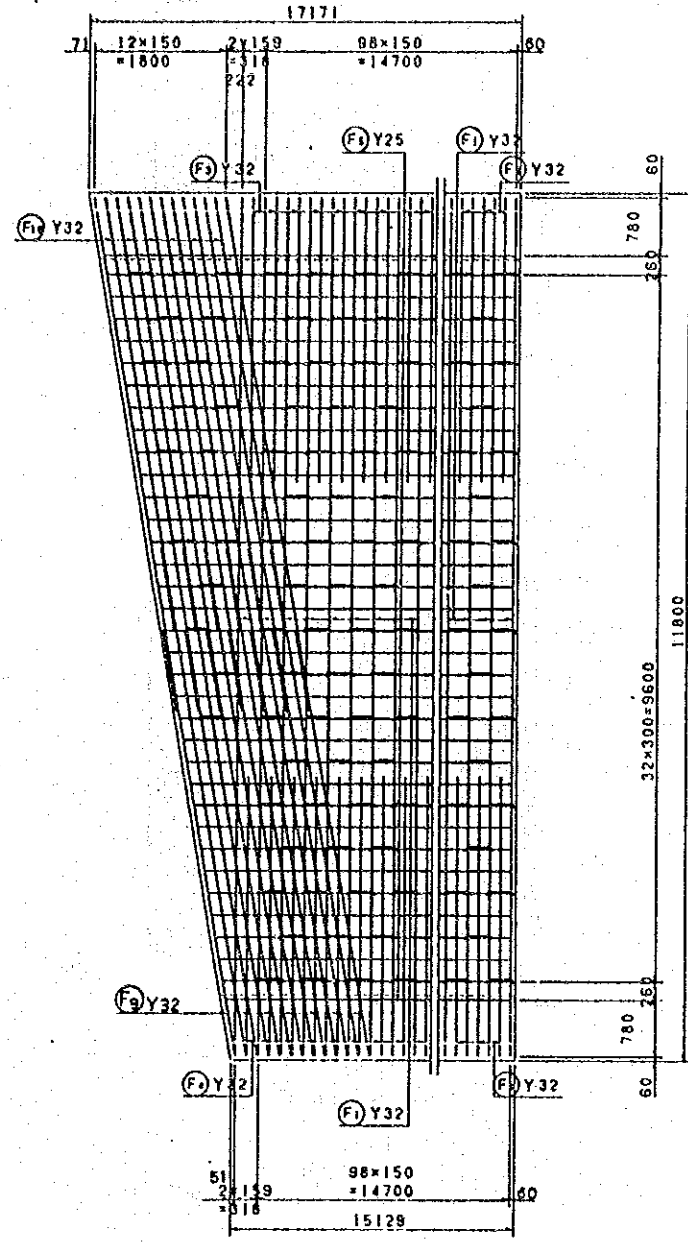
NAIROBI BYPASS
VEHICLE BOX CULVERTS
CR 15x16, ST W=10.00 R=5.00 (3)

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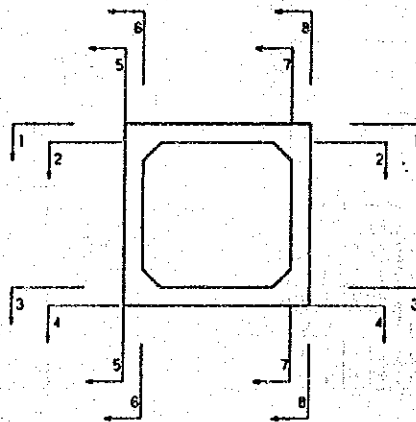
M.O.P.W. ROADS DEPT. DRG. NO. _____



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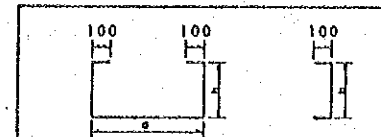
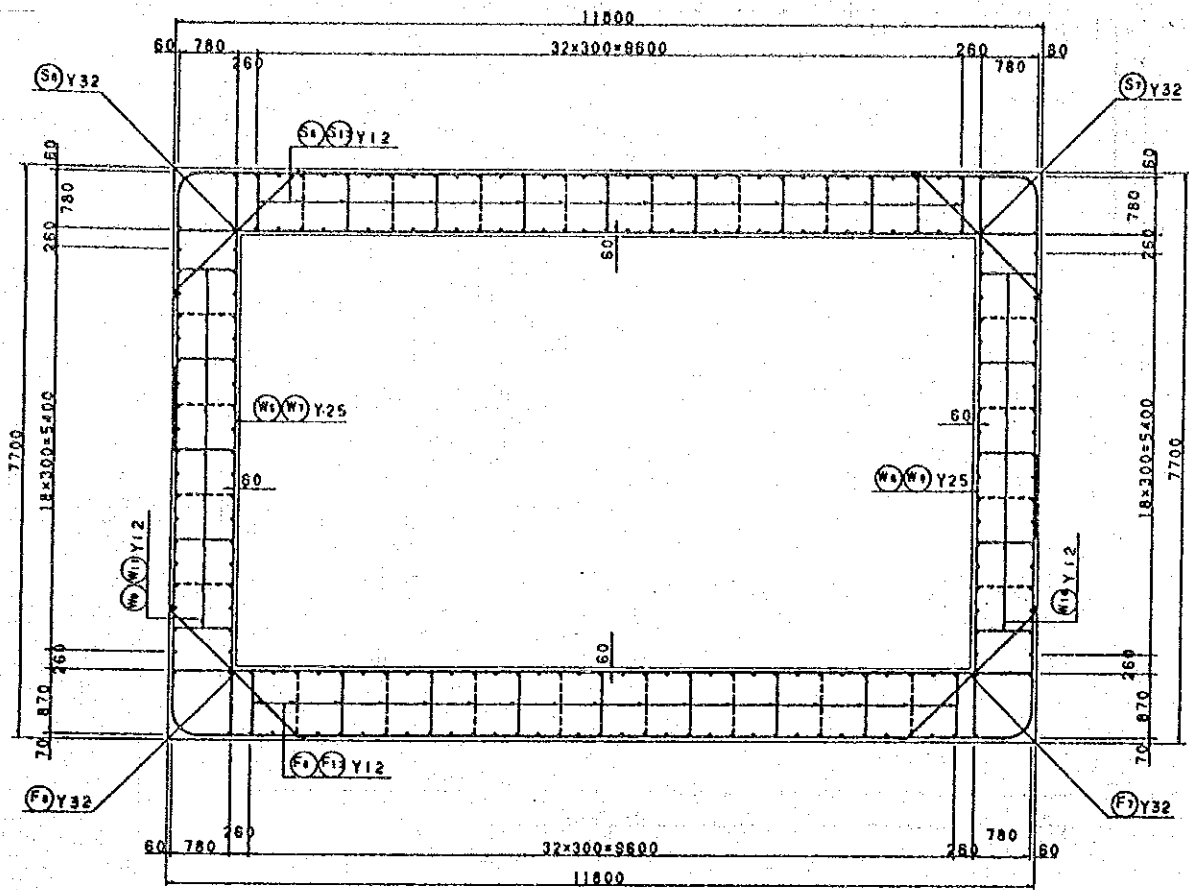
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CHIEF SUPT. ENG. (DESIGN)

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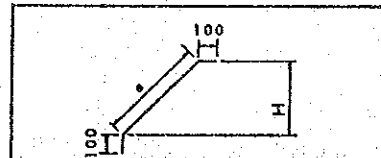
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NAIROBI BYPASS
VEHICLE BOX CULVERTS
CR 15-516.37 R-10.00 R-6.80 (1)

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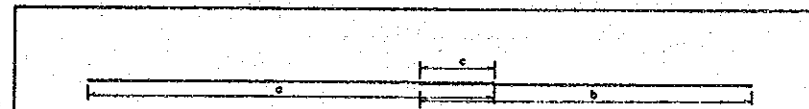
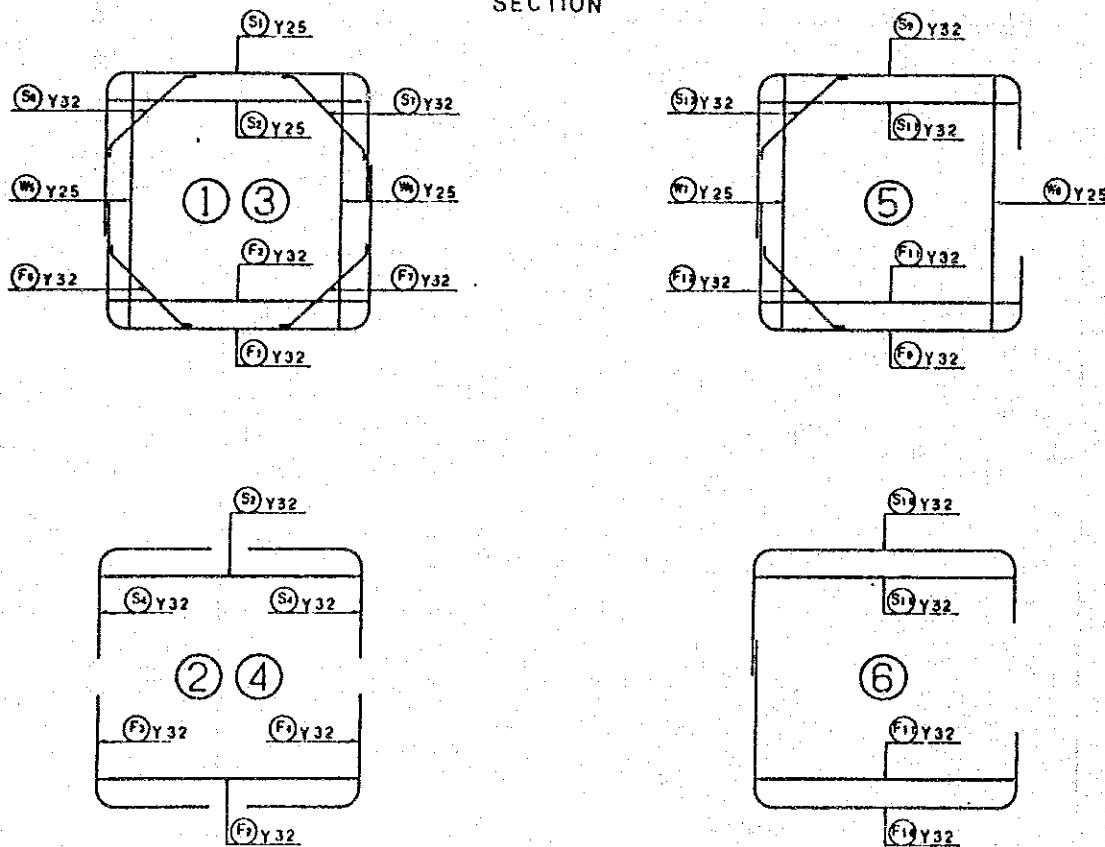


MARK	DIA	a	b	L	REMARK
S 8	Y12	338	818	2174	
S13	"	338	818	2174	
F 8	"	345	915	2375	
F13	"	338	915	2368	
W 9	"	---	822	1022	
W10	"	---	822	1022	
W11	"	---	833	1033	



MARK	DIA	a	H	L	NUMBER
S 8	Y32	2256	1595	2456	51
S 7	"	2256	1595	2456	51
S12	"	2273	1607	2473	7
F 8	"	2383	1685	2583	51
F 7	"	2383	1685	2583	51
F12	"	2400	1697	2600	7

SECTION



MARK	DIA	a	b	c	L	LAP NO	NUMBER
S 5	Y25	10000	5893- 7915(6804	875	16 204	1	72
F 5	Y25	10000	5893- 7915(6804	875	16 204	1	72
W 1	Y25	10000	5893	875	15 893	1	19
W 2	Y18	10000	5573	580	15 573	1	18
W 3	Y18	10000	7325	580	17 325	1	18
W 4	Y25	10000	7915	875	17 915	1	19

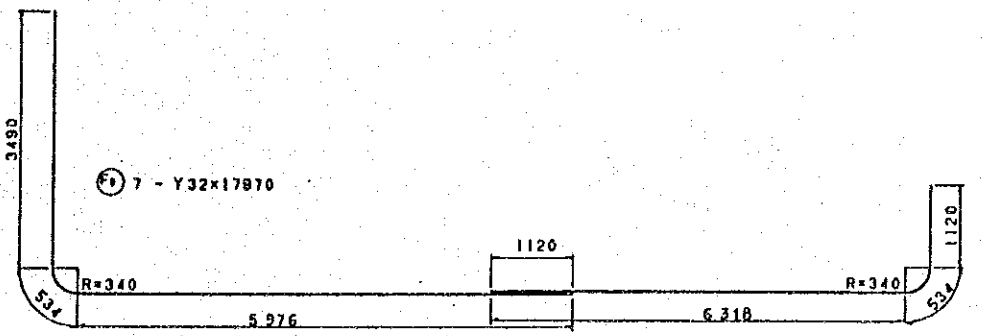
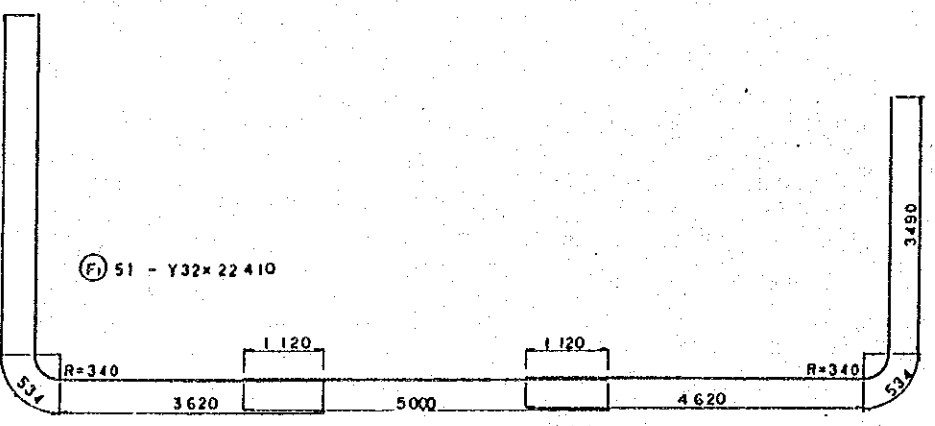
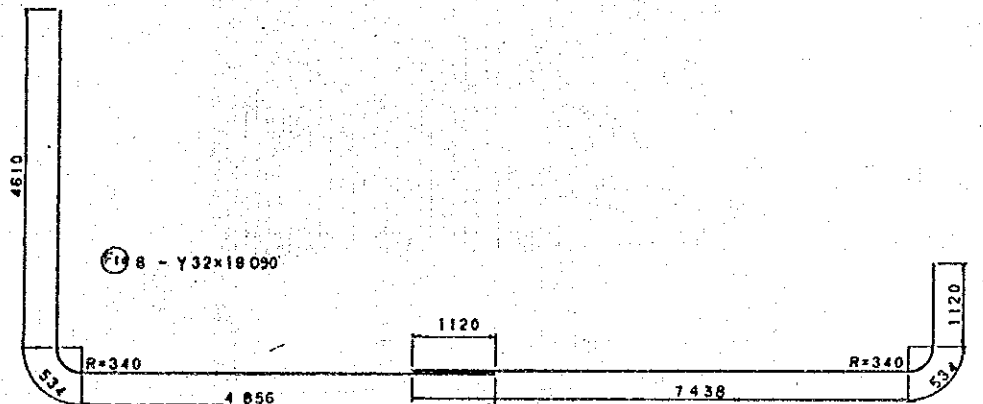
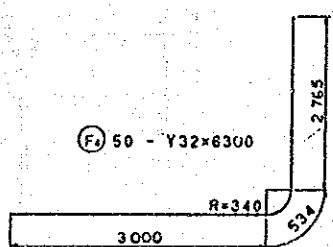
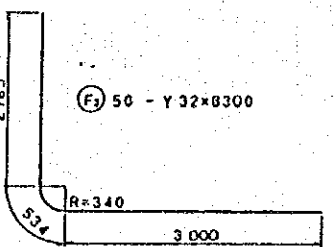
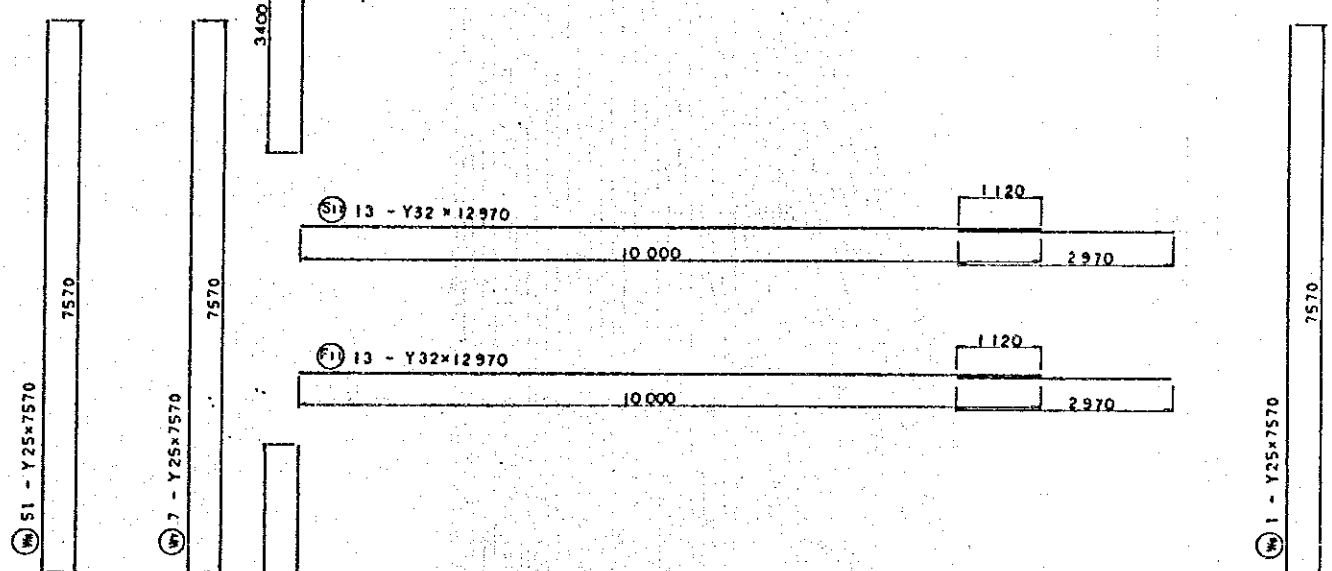
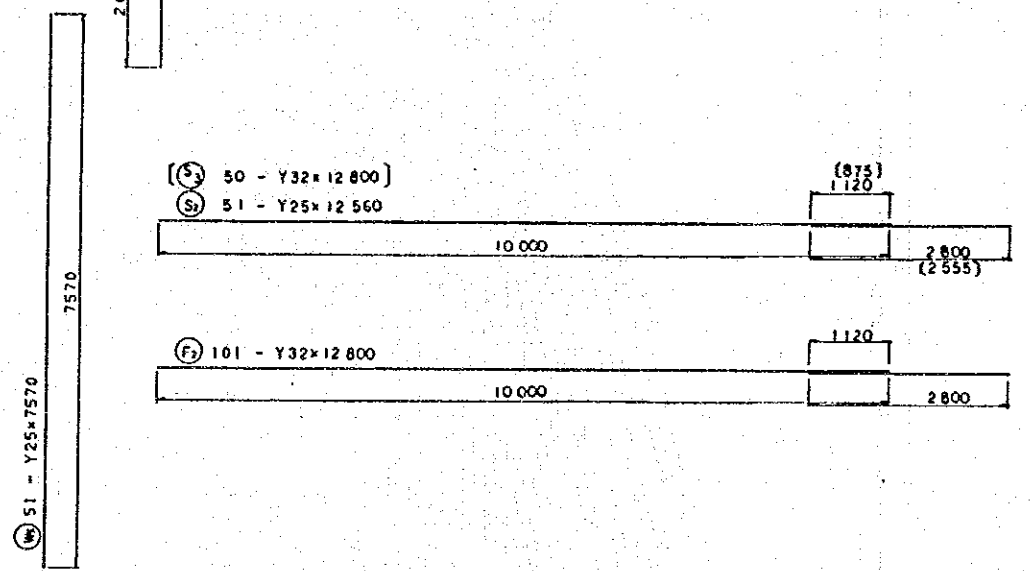
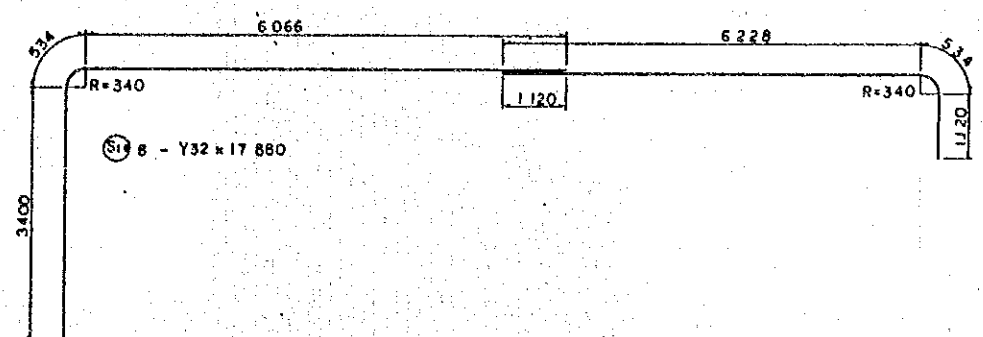
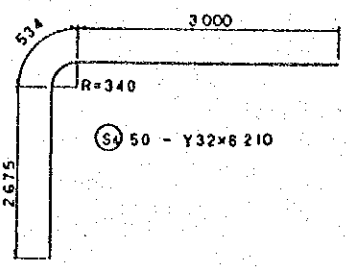
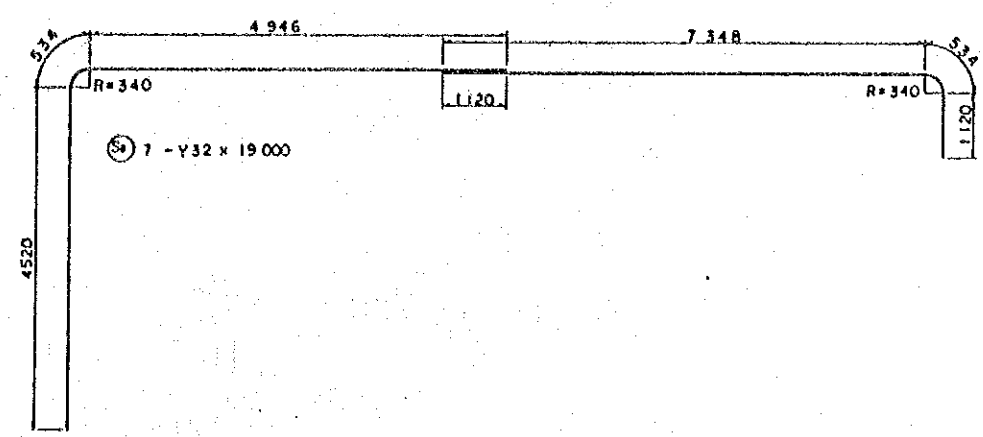
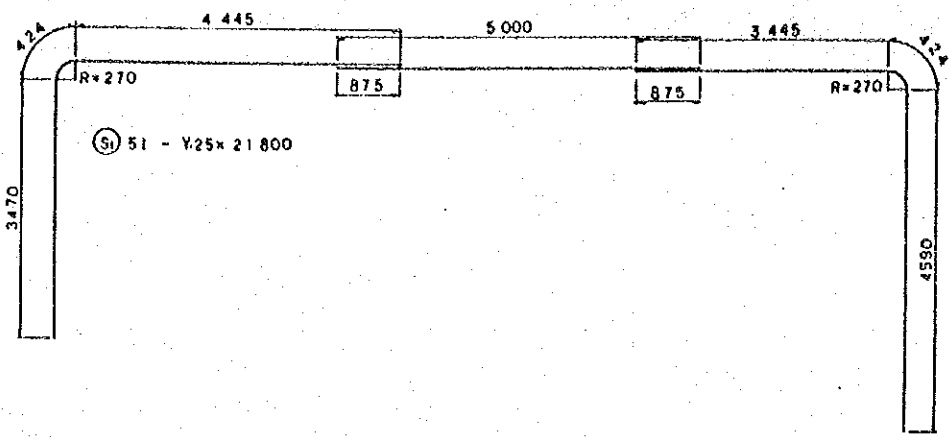
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 CHIEF SUPT. ENG. (DESIGN)

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

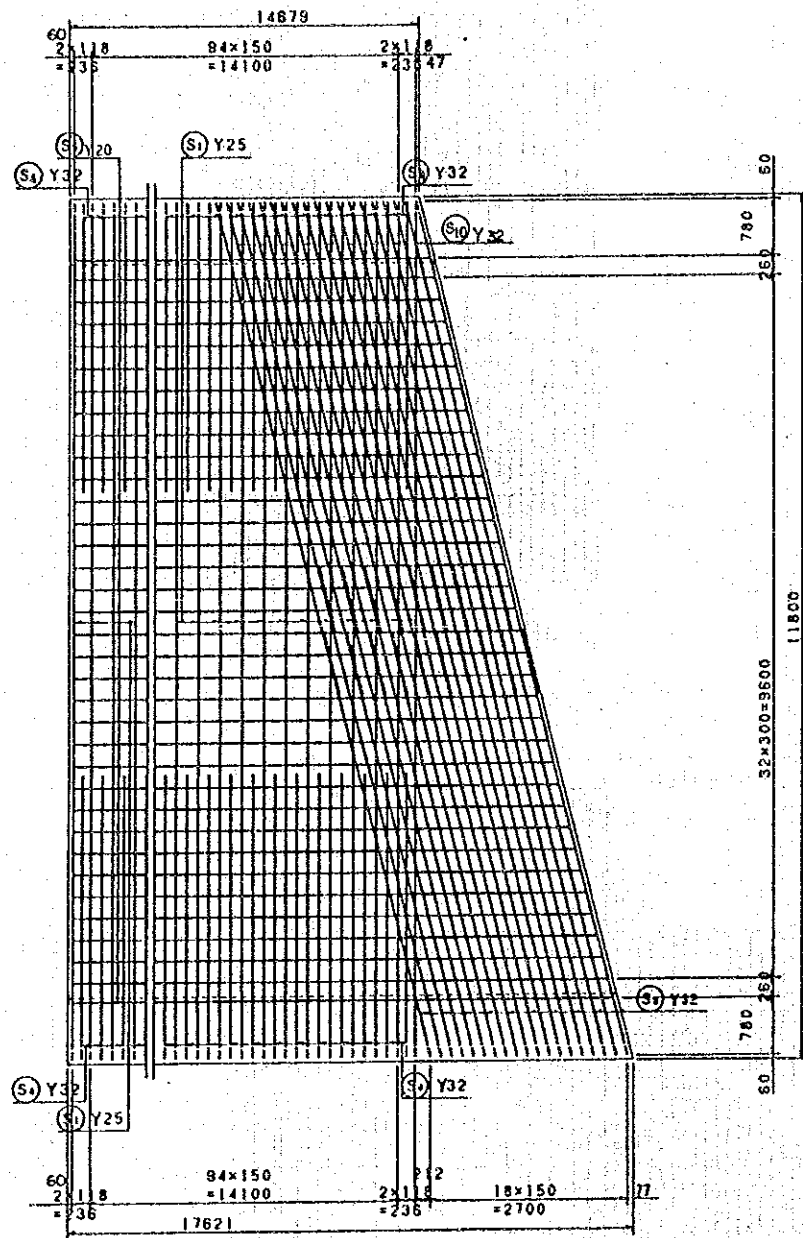
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NAIROBI BYPASS
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 CU 15-518, 37 W-10, 00 W-5, 10 (6)

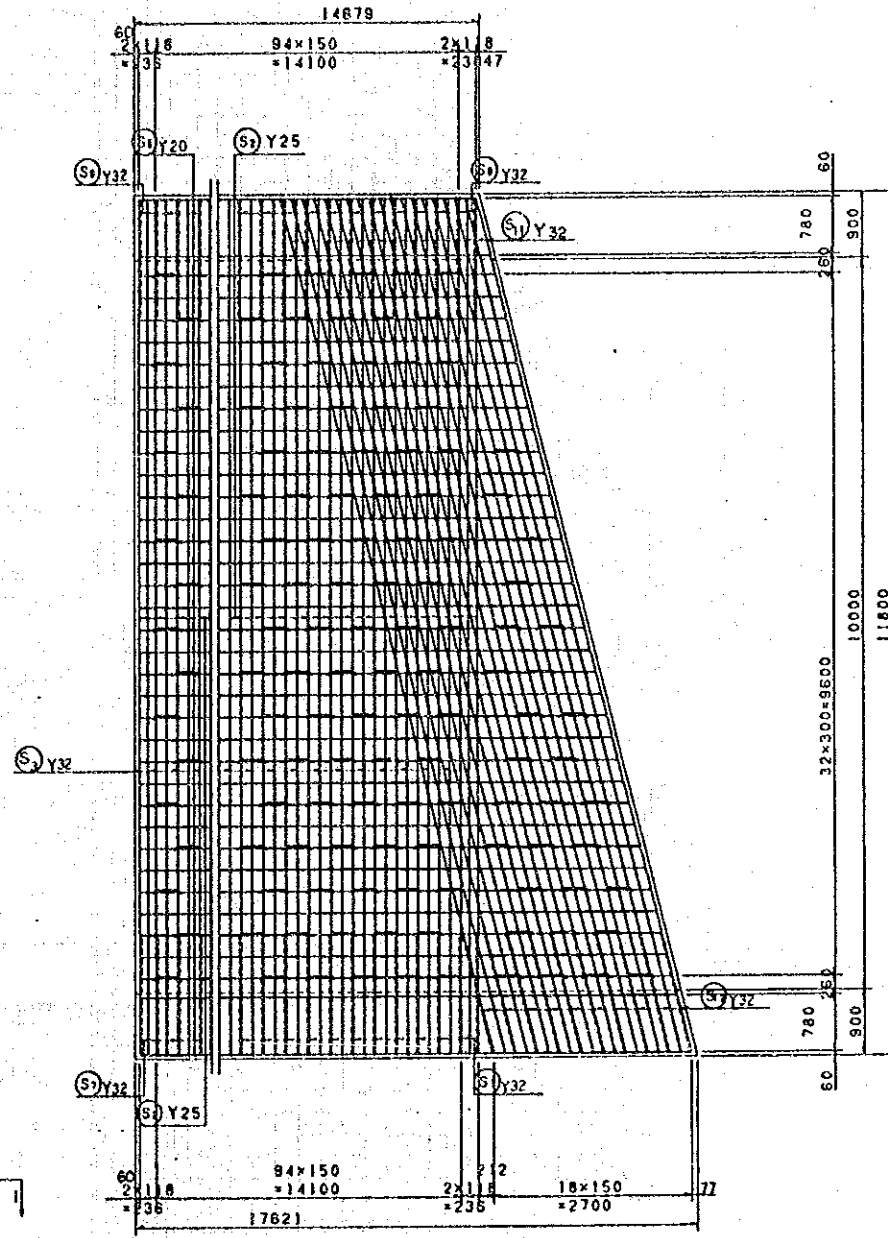
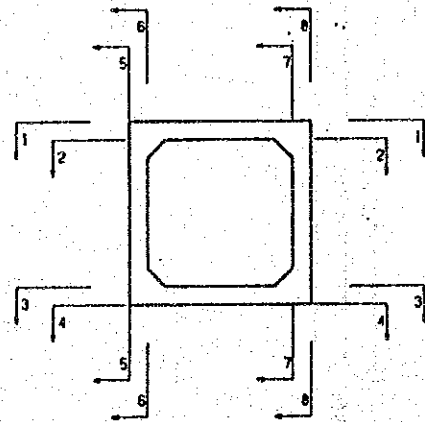
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CHIEF SUPT. ENG. (DESIGN)

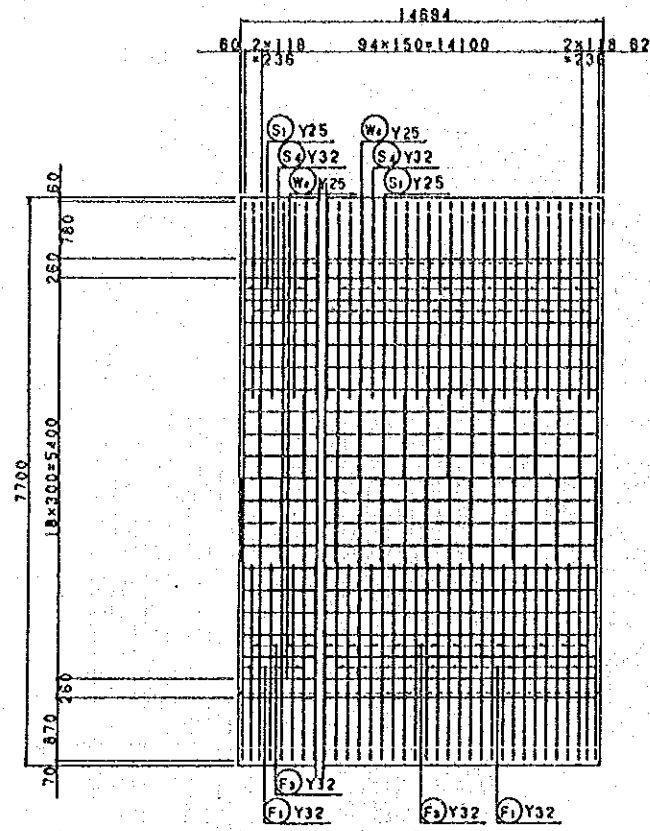
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SUPT. ENGINEER (DESIGN)
PROJECT ENGINEER

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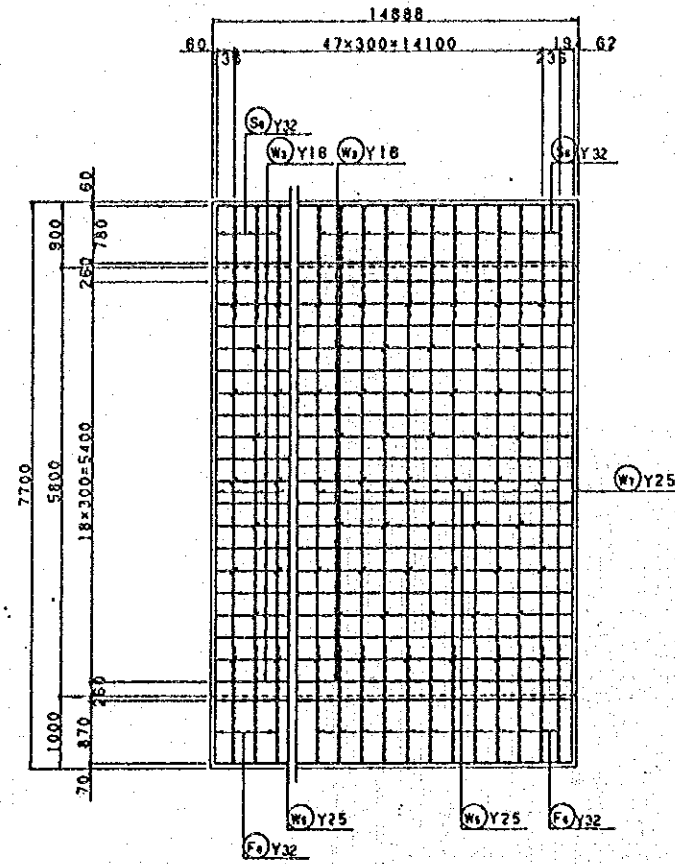
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VEHICLE BOX CULVERTS
CH 15x16.3T 8x10.00 8x5.00 (1)

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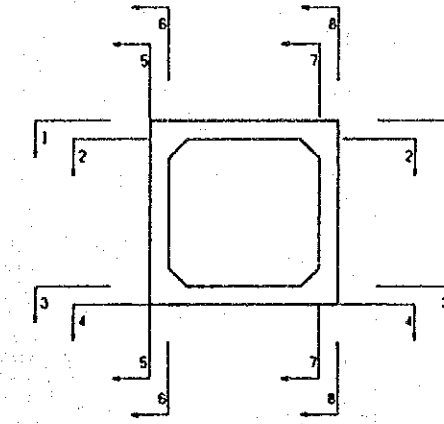
SHEET 7 OF 11



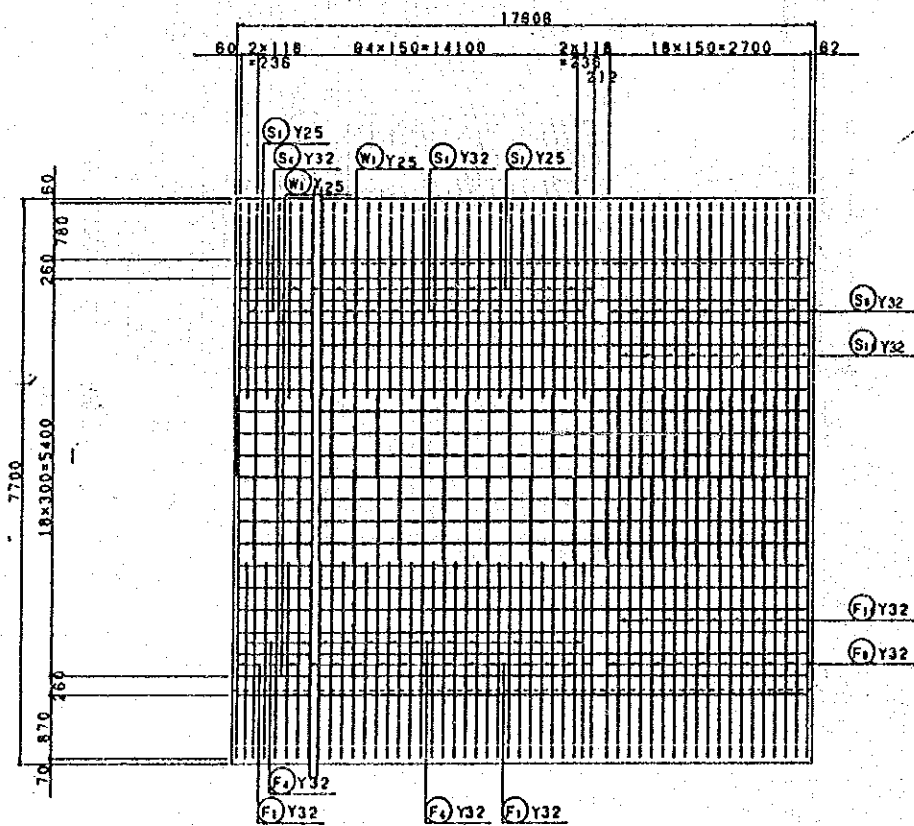
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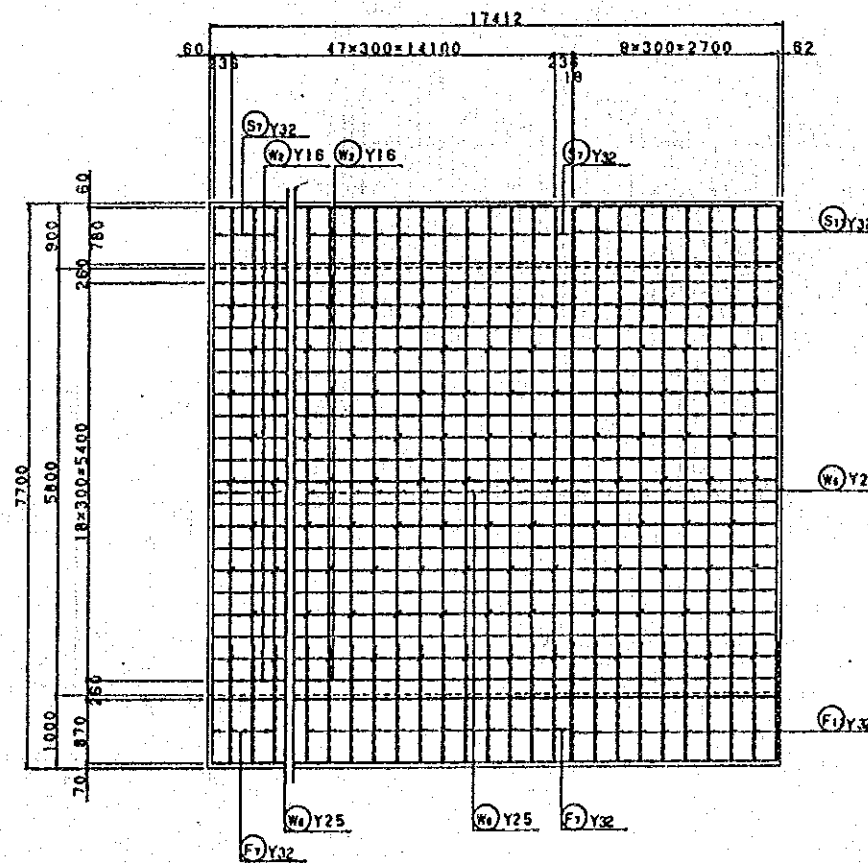
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M.O.P.W. ROADS DEPT DRG NO.

REVISIONS	
DESCRIPTION	DATE

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CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

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

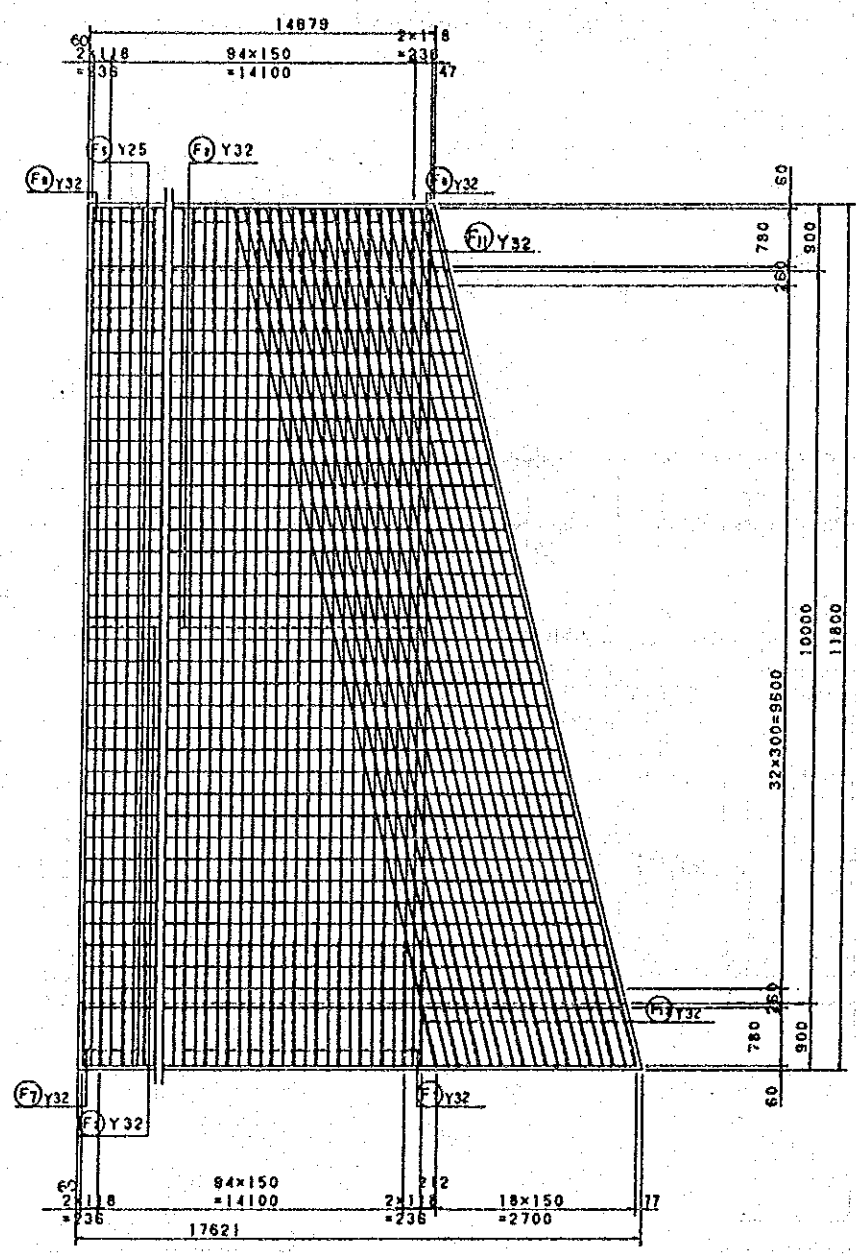
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NAIROBI BYPASS
VEHICLE BOX CULVERTS
CW 15x516.37 W-10.00 H-5.40 (4)

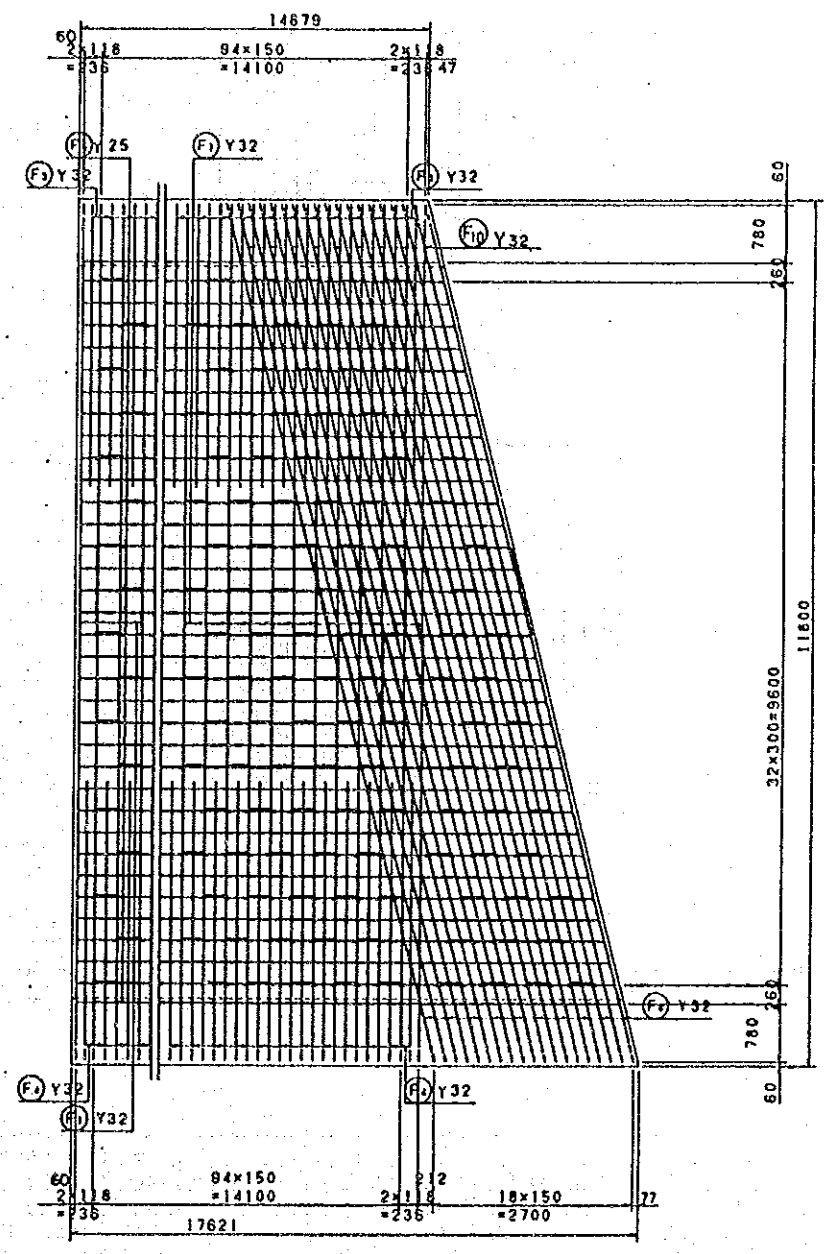
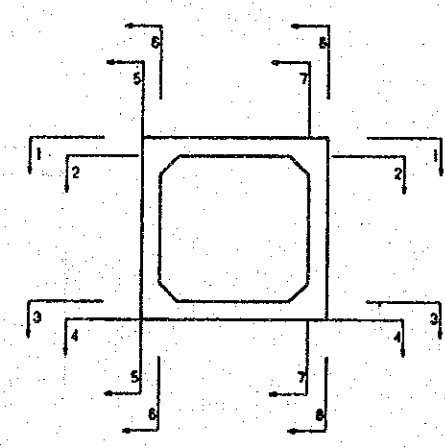
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M.O.P.W. ROADS DEPT DRG NO.



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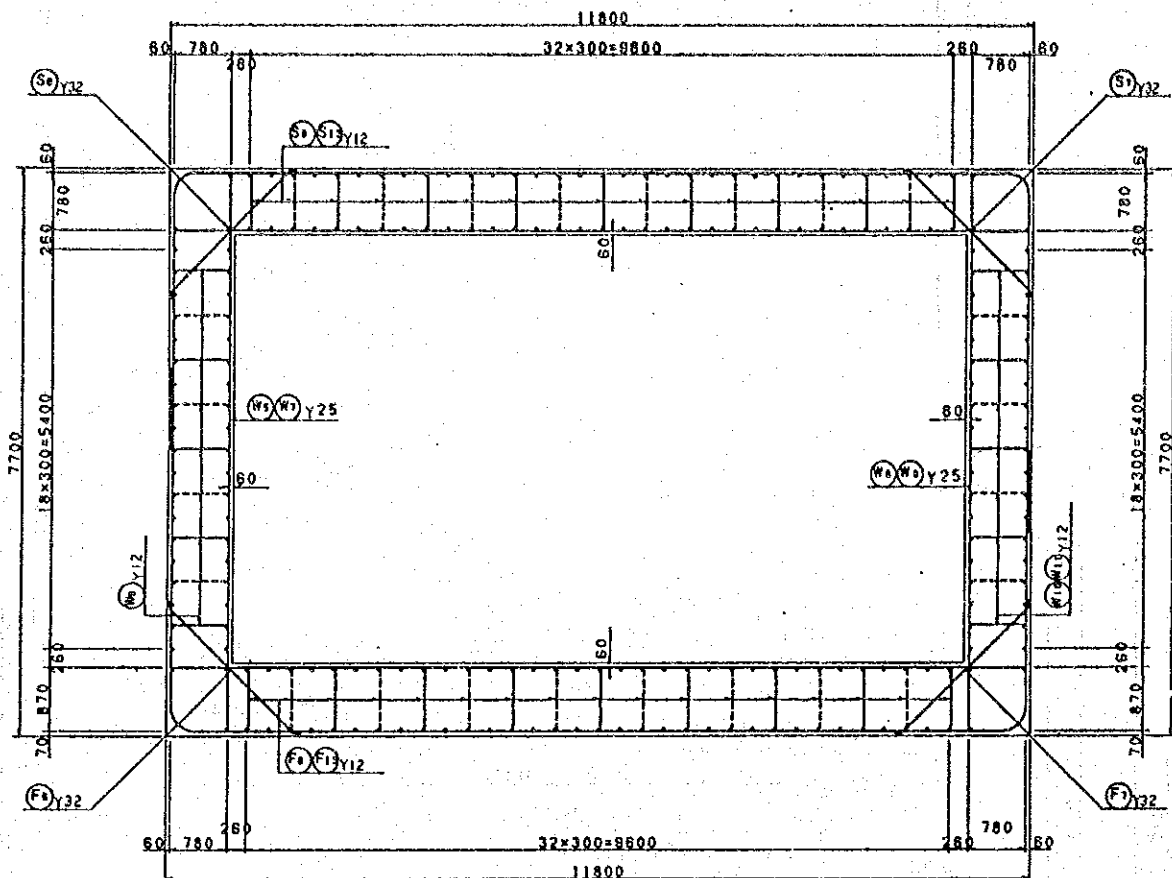
CHIEF ENGINEER (ROADS)
CHIEF SUPT. ENG. (DESIGN)

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

SCALES
1:50

NAIROBI BYPASS
VEHICLE BOX CULVERTS
CH 15+516.37 W-10.00 R=5.00 (S)

0
SHEET 9 OF 18

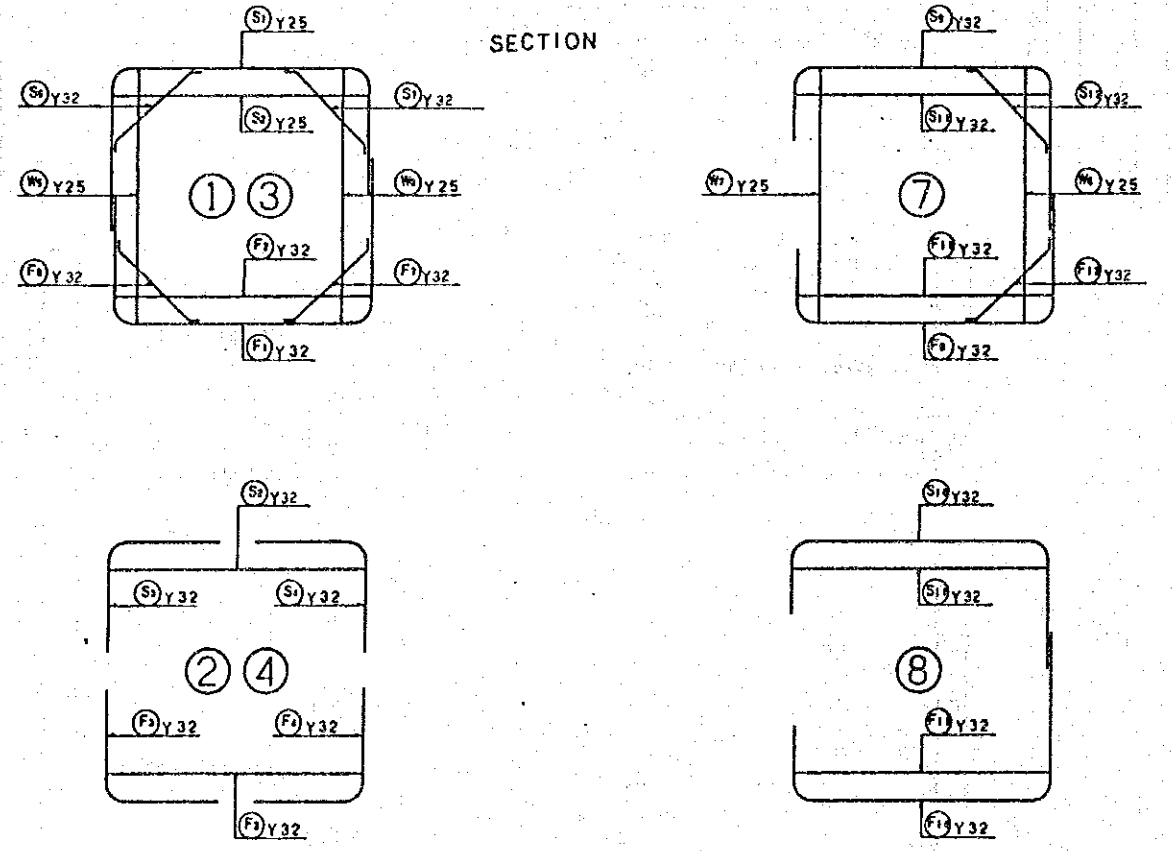


MARK	D/A	a	b	L	REMARK
S 6	Y12	338	818	2174	
S13	Y12	338	818	2174	
F 8	Y12	345	915	2375	
F13	Y12	345	915	2375	
W 9	Y12	—	822	1022	
W10	Y12	—	822	1022	
W11	Y12	—	845	1045	

MARK	D/A	a	H	L	NUMBER
S 6	Y32	2258	1585	2456	50
S 7	Y32	2256	1585	2456	50
S12	Y32	2292	1621	2492	10
F 6	Y32	2383	1685	2583	50
F 7	Y32	2383	1685	2583	50
F12	Y32	2420	1711	2620	10

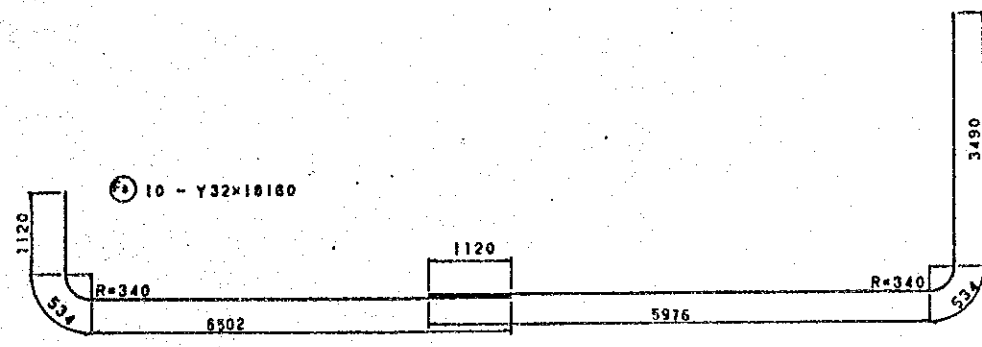
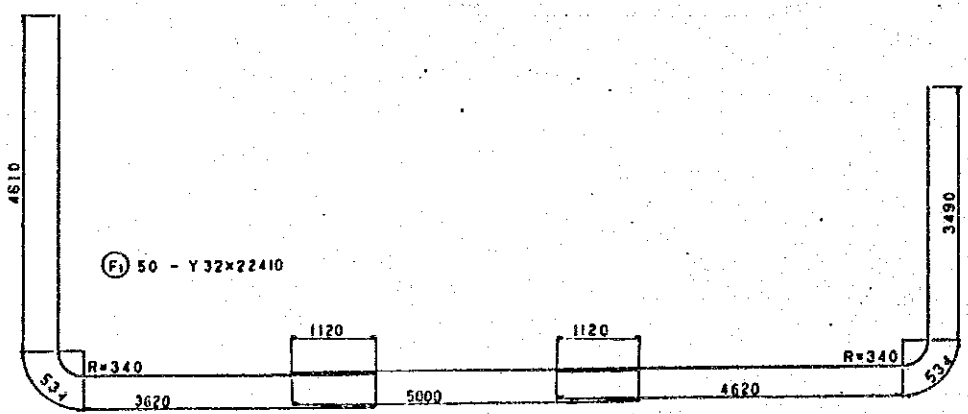
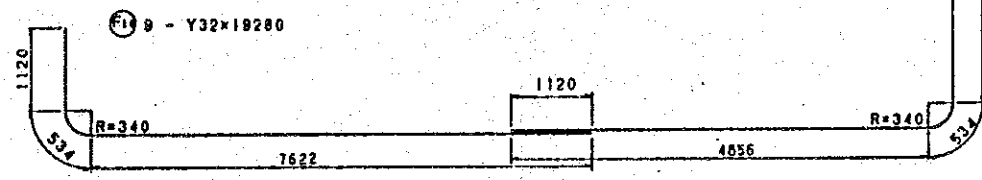
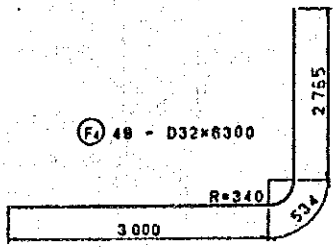
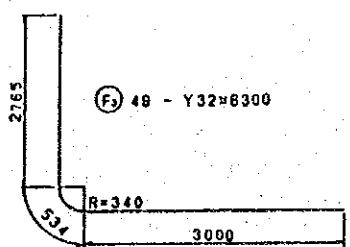
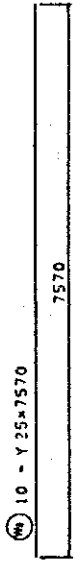
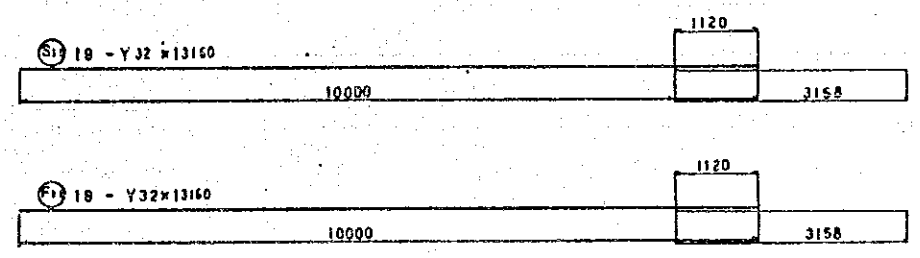
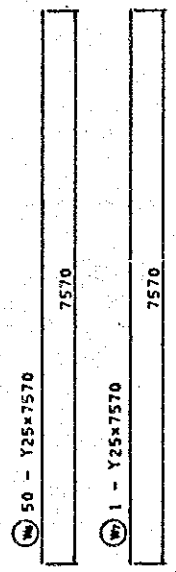
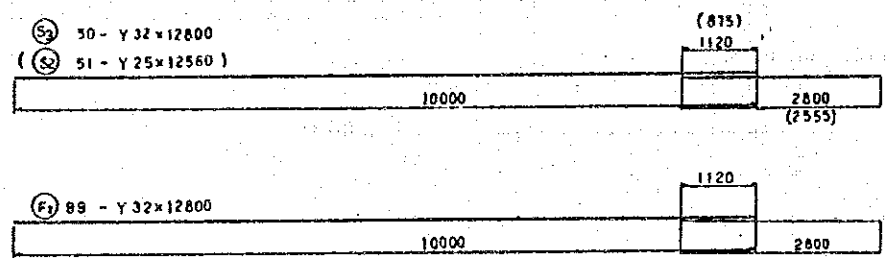
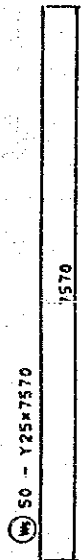
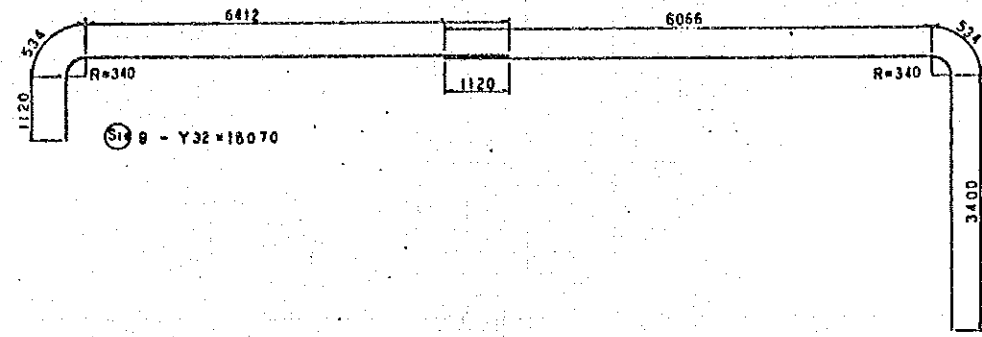
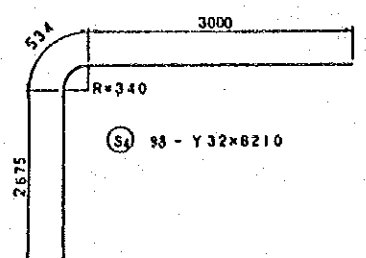
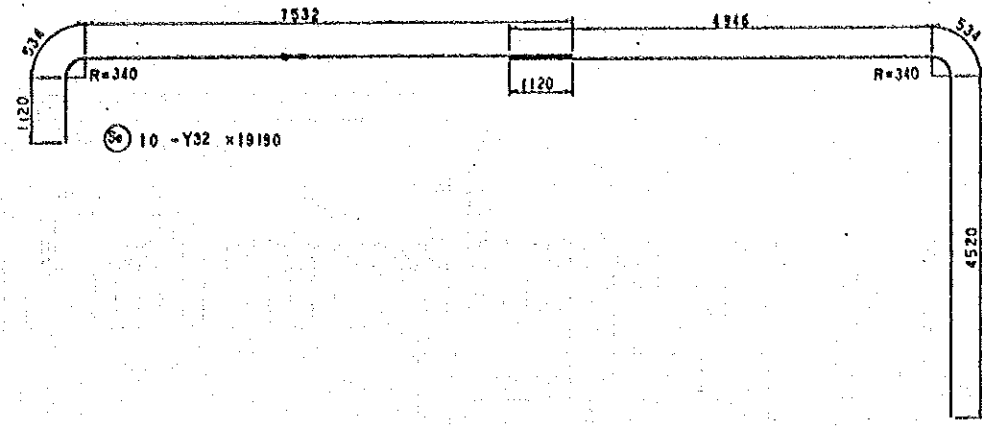
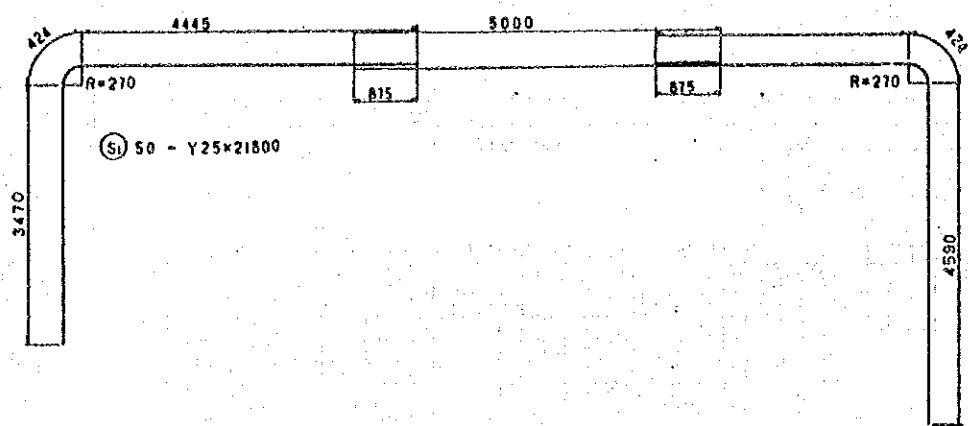
AERIAL PHOTO BY _____ SURVEYED BY _____
 MAPPING BY _____ TRACED BY _____
 LOCATION BY _____ CHECKED BY _____

SECTION



MARK	D/A	a	b	c	L=a+b	LAP-N	NUMBER
S 5	Y20	10000	5272~ 8184(8728)	700	15272~ 18184(18728)	1	72
F 5	Y25	10000	5447~ 8358(6903)	875	15447~ 18359(18903)	1	72
W 1	Y25	10000	8359	875	18359	1	19
W 2	Y12	10000	7710	420	17710	1	19
W 3	Y12	10000	5168	420	15168	1	19
W 4	Y25	10000	5447	875	15447	1	19

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



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

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

REVISIONS	
DESCRIPTION	DATE

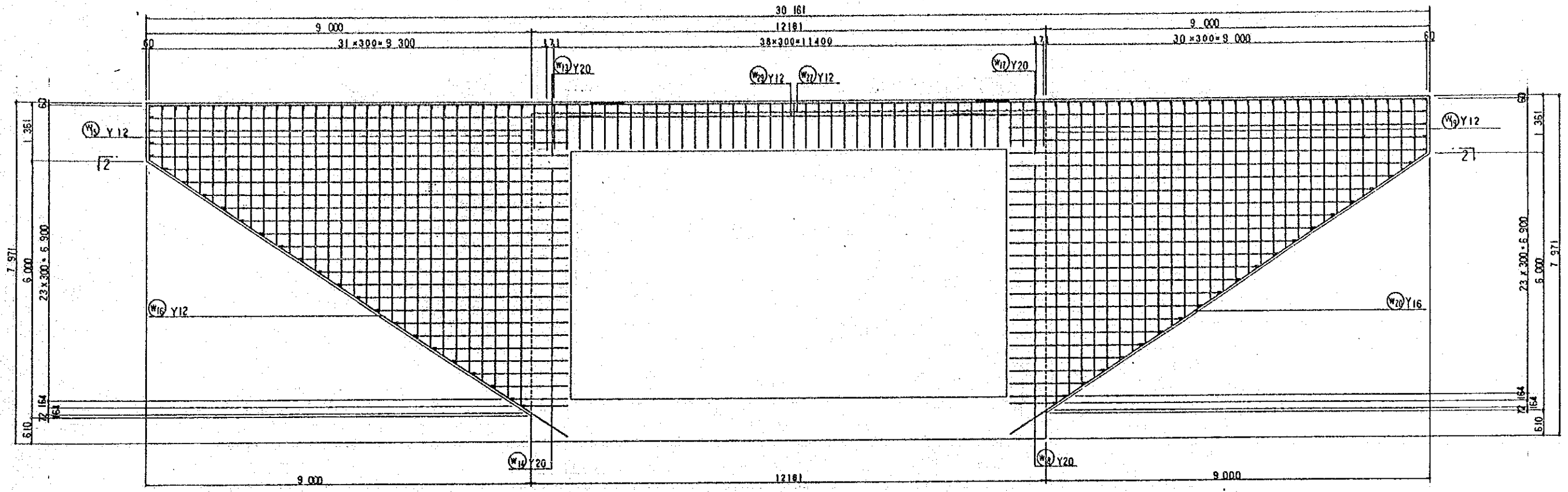
JAPAN INTERNATIONAL COOPERATION AGENCY

CHIEF ENGINEER (ROADS)
CHIEF SUPT ENG (DESIGN)

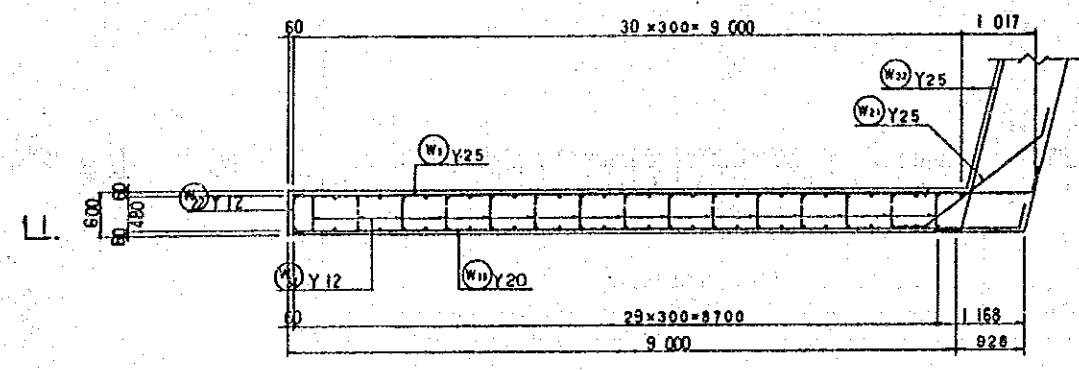
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SUPT. ENGINEER (DESIGN)
PROJECT ENGINEER

SCALES
1:50

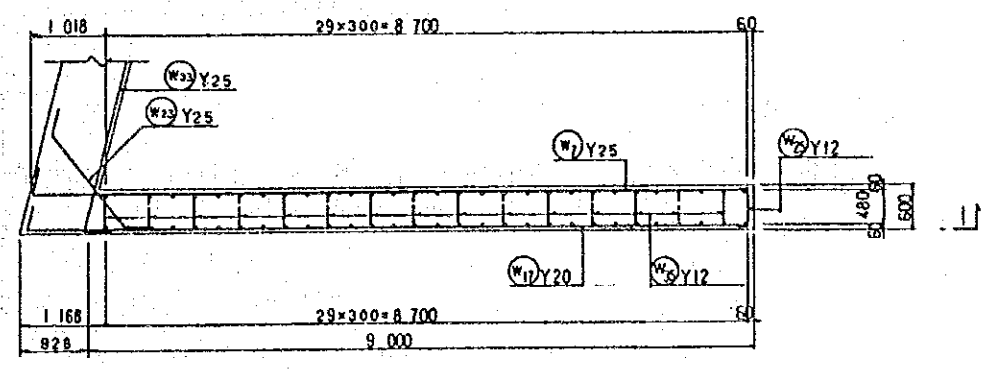
NAIROBI BYPASS
VEHICLE BOX CULVERTS
CN 15x518.37 R=10.00 W=4.80 (11)



1-1



2-2



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

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

REVISIONS	
DESCRIPTION	DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

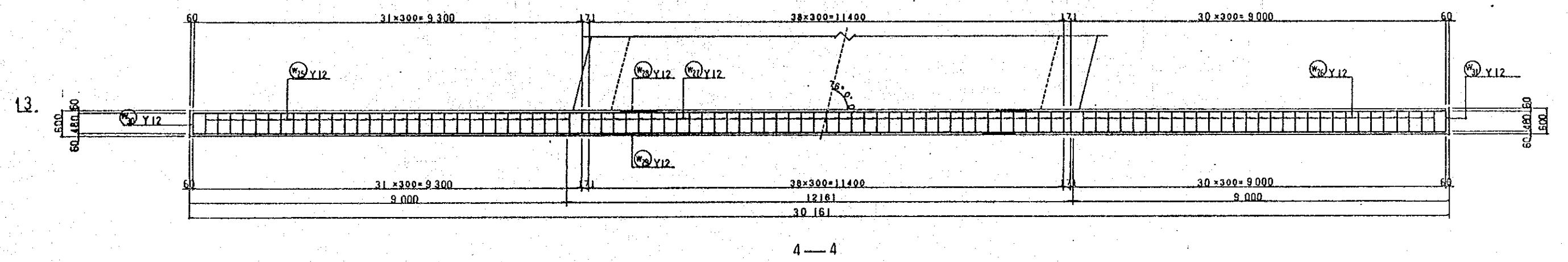
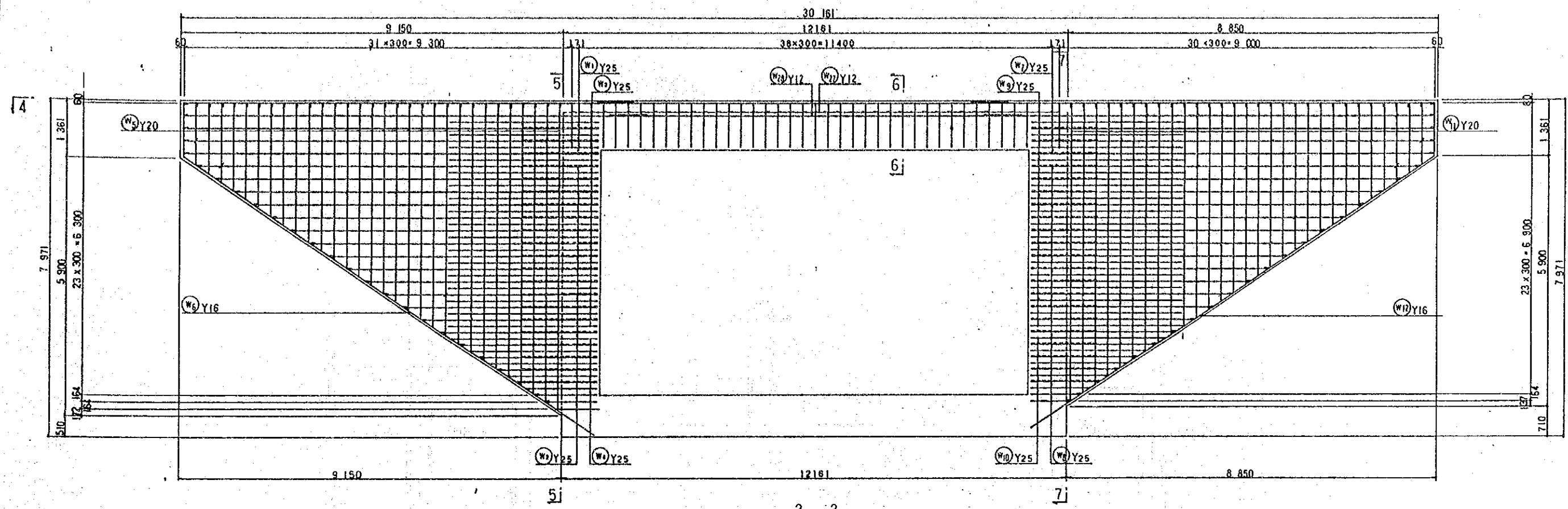
CHIEF ENGINEER (ROADS)
CHIEF SUPT. ENG. (DESIGN)

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

SCALES
1:50

NAIROBI BYPASS
VEHICLE BOX CULVERTS
CR 15-516, 37 R-10, 00 R-6, 60 (12)

SHEET 12 OF 183



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

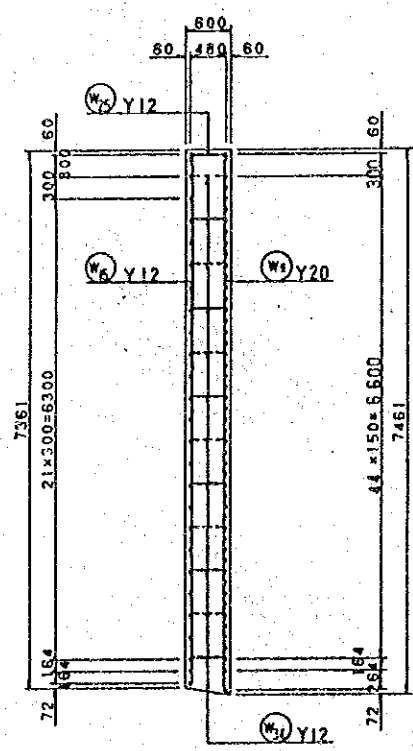
SCALES
1:50

NAIROBI BYPASS
VEHICLE BOX CULVERTS
CR 15+516.37 9-10.00 W=5.40 (13)

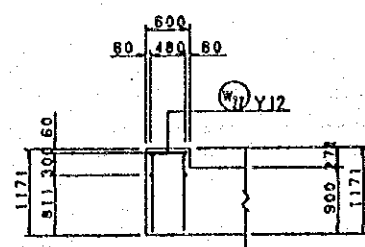
Q
SHEET 13 OF 103

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

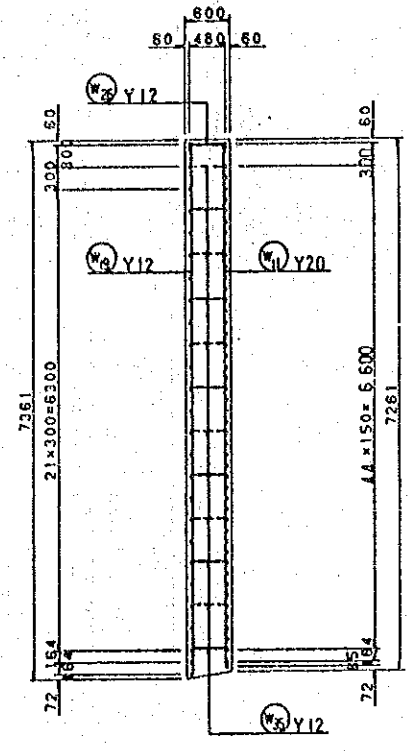
M.O.P.W. ROADS DEPT DRG NO.



5 — 5



6 — 6



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

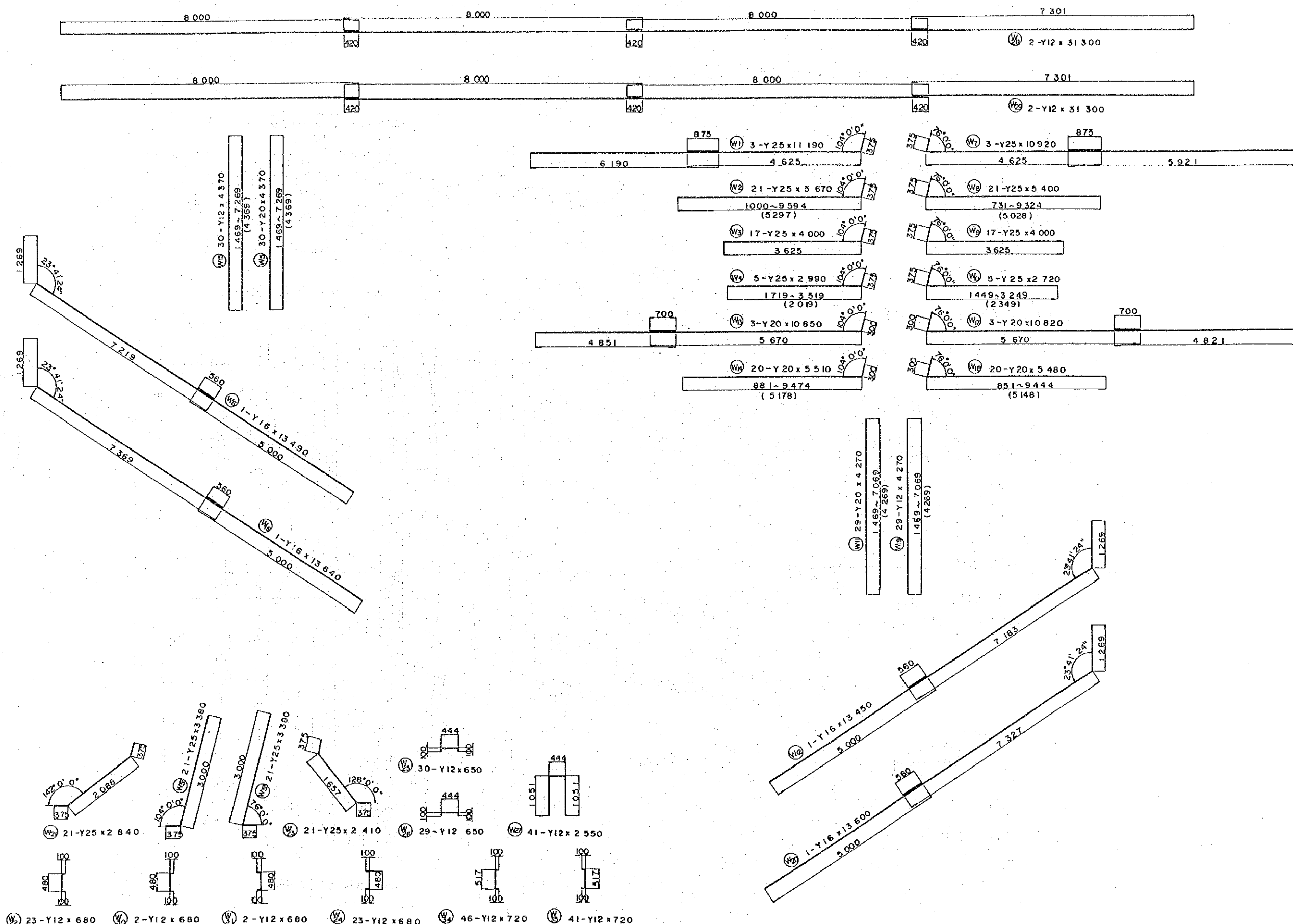
SCALES
1:50

NAIROBI BYPASS
VEHICLE BOX CULVERTS
CE 15+618.37 W=10.00 H=5.00 (14)

Q
SHEET 14 OF 183

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

MOPW ROADS DEPT. DRG NO.



REVISIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	CHIEF ENGINEER (ROADS)	SEN SUPT. ENG (DESIGN)	SCALES	NAIROBI BYPASS	Q
DESCRIPTION	DATE						
			CHIEF SUPT. ENG (DESIGN)	SUPT. ENGINEER (DESIGN)	1:50	VEHICLE BOX CULVERTS CH 15+616.37 W-10.00 H=5.80 (15)	SHEET 15 OF 183