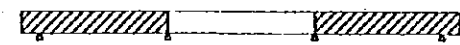
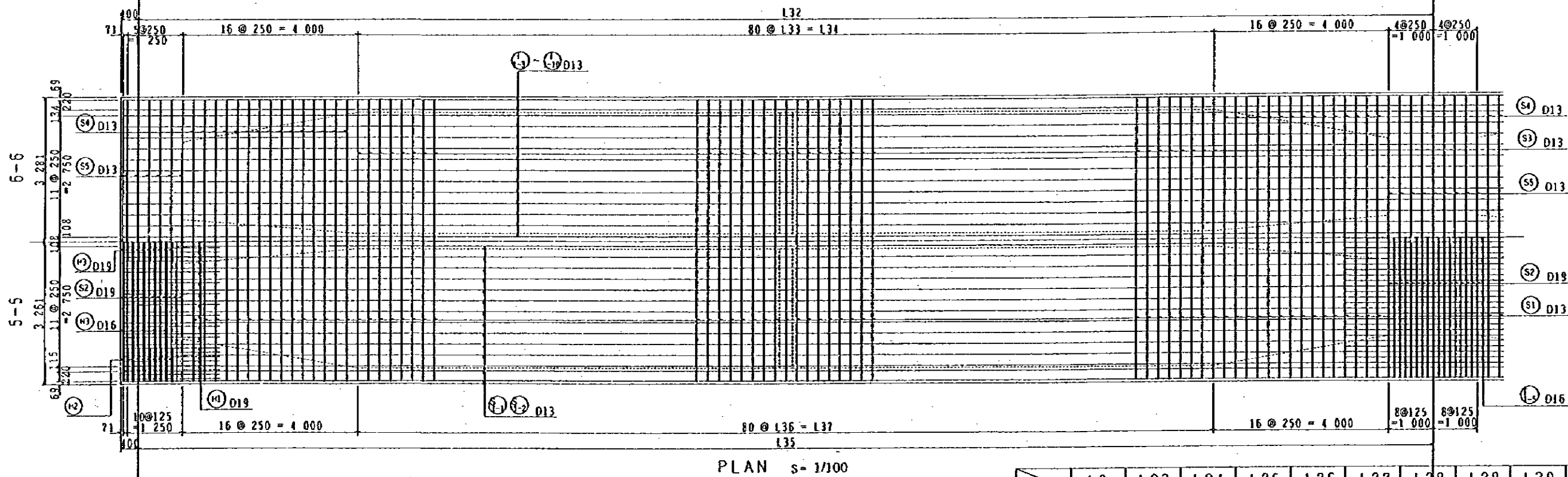
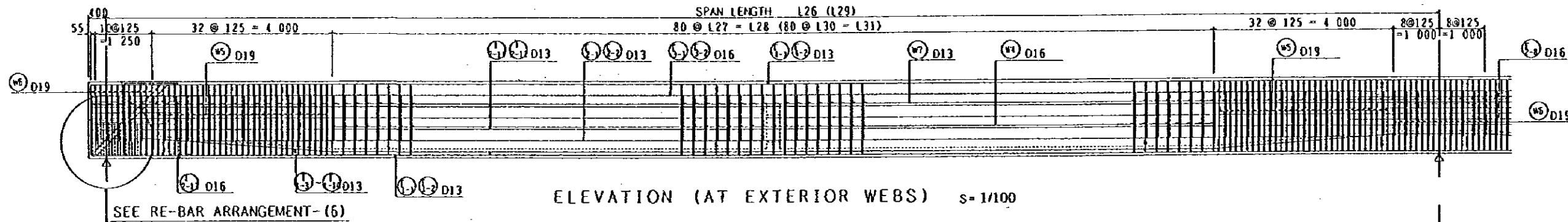
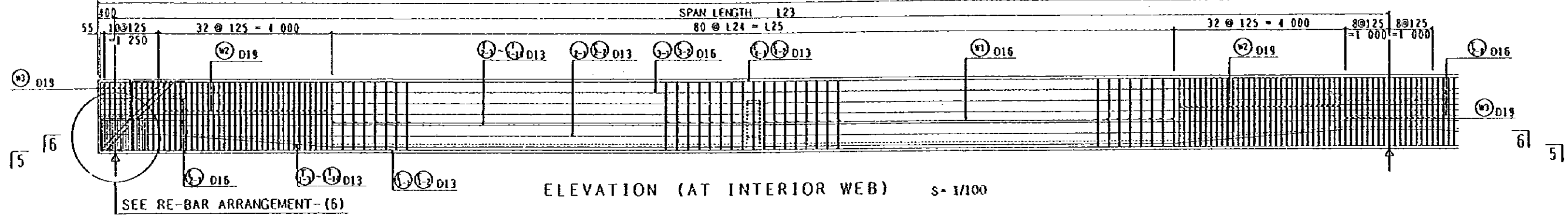


RA/18 AOR

GIRDER LENGTH L0



	L0	L23	L24	L25	L26	L27	L28	L29	L30	L31
A1~P3	90 100	29 600	2450	19 600	29 707	2463	19 707	29 492	2437	19 492
P3~P6	90 100	29 600	2450	19 600	29 707	2463	19 707	29 492	2437	19 492
P6~P9	90 100	29 600	2450	19 600	29 707	2463	19 707	29 492	2437	19 492
P9~A2	89 551	29 417	2427	19 417	29 328	2416	19 328	29 507	2438	19 507

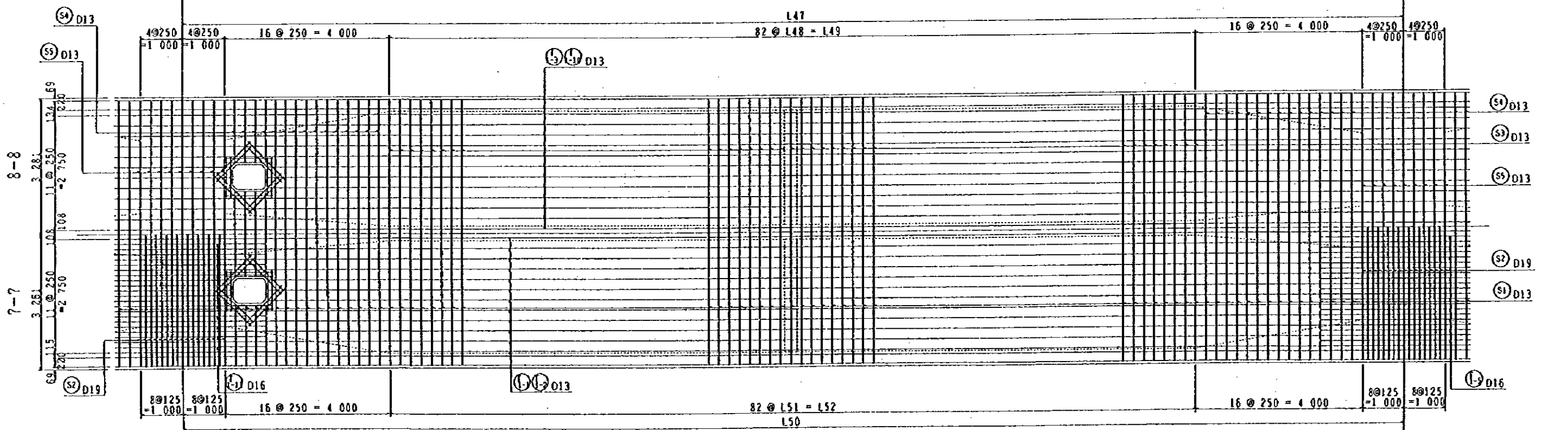
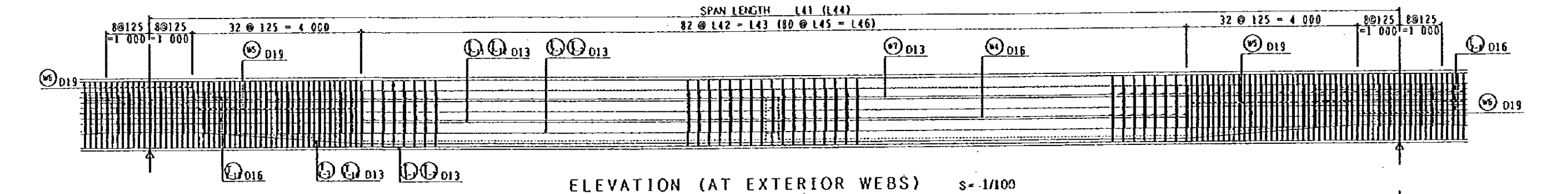
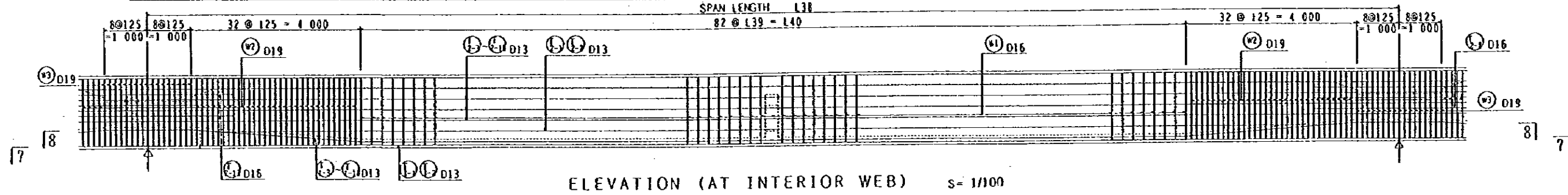
DIMENSION LIST (FOR END SPAN)

A-LINE RE-BAR ARRANGEMENT-(4)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: RE-BAR ARRANGEMENT(4/6) AT A-LINE
		DATE: _____ DWGNO. B-13

RA/18 AQR

GIRDER LENGTH L0
SPAN LENGTH L38
82 @ L39 = L40



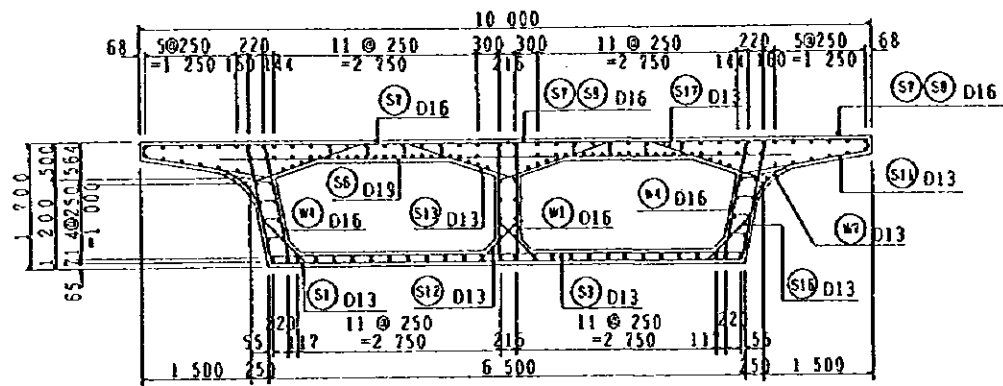
	L0	L32	L33	L34	L35	L36	L37	L38	L39	L40
W1~W3	30 100	30 100	245.1	20 100	30 211	246.5	20 211	29 991	243.8	19 991
W2~W6	30 100	30 100	245.1	20 100	30 211	246.5	20 211	29 991	243.8	19 991
W6~W9	30 100	30 100	245.1	20 100	30 211	246.5	20 211	29 991	243.8	19 991
W9~L2	89 551	29 917	242.9	19 917	29 825	241.8	19 835	30 006	244.0	20 006

DIMENSION LIST (FOR MID SPAN)

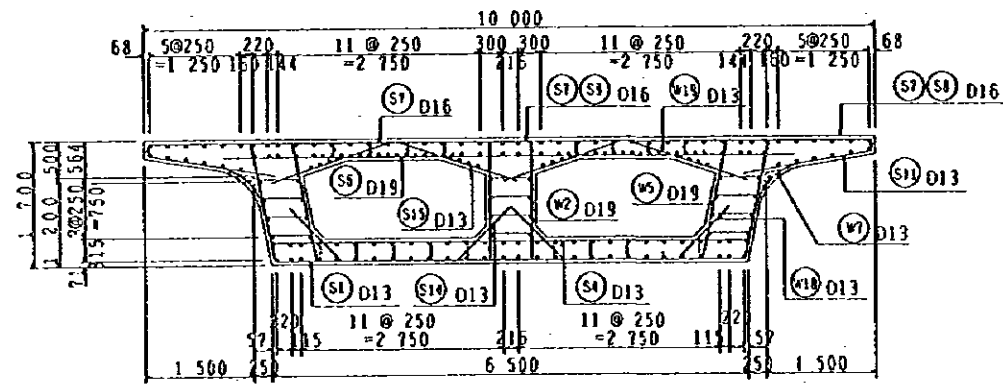
A-LINE RE-BAR ARRANGEMENT-(5)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: RE-BAR ARRANGEMENT(5/6) AT A-LINE
		DATE: _____ DWGNO. B-14

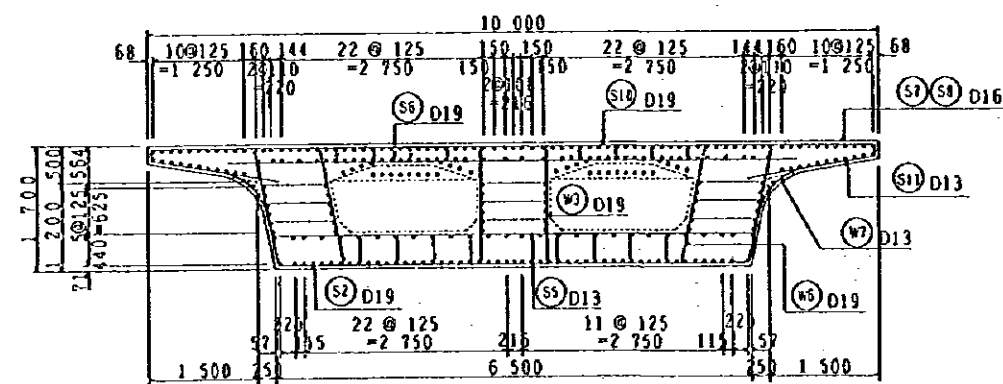
RA/18 AQR



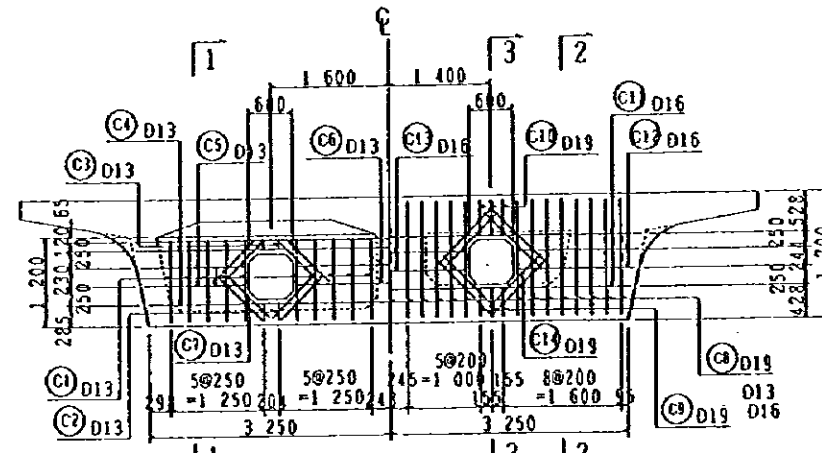
AT TYPICAL SECTION



AT WEB WIDENED

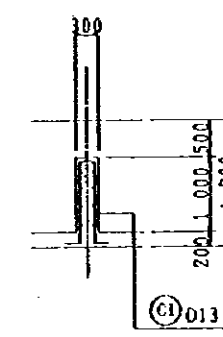


AT INTERIOR SUPPORT

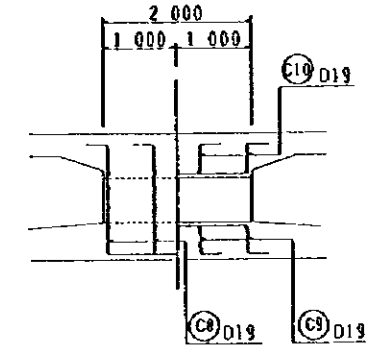


CENTER OF SPAN

INTERIOR SUPPORT

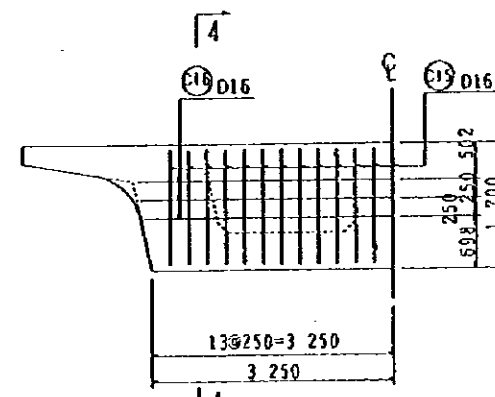


SEC. 1-1

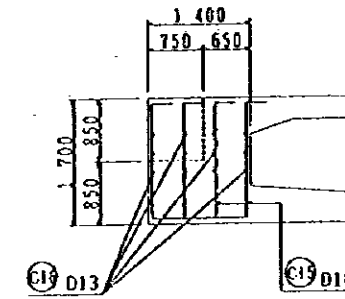


SEC. 2-2

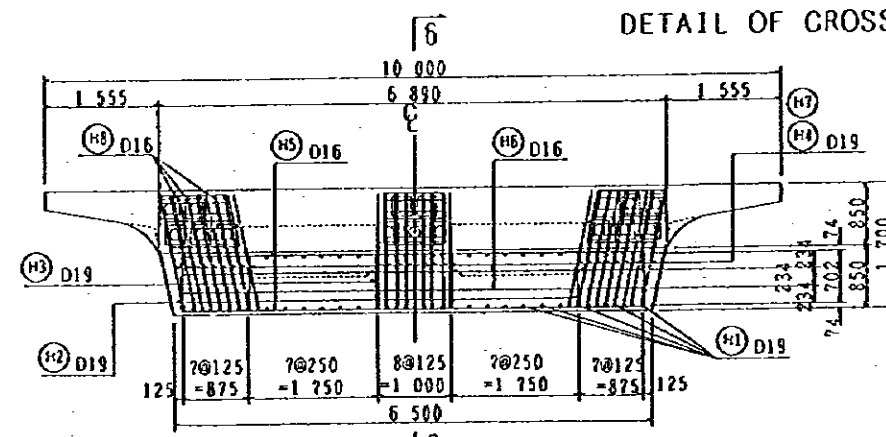
SEC. 3-3



END SUPPORT

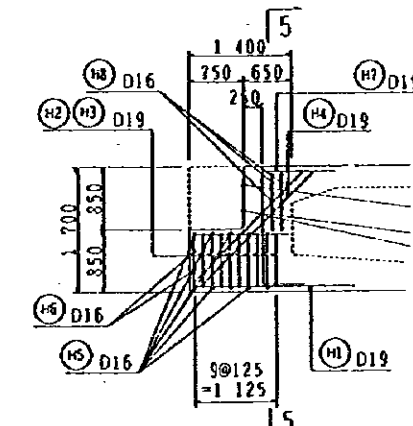


SEC. 4-4



SEC. 5-5

DETAIL OF CROSS BEAM



SEC. 6-6

DETAIL OF RECESS FOR ANCHORAGE

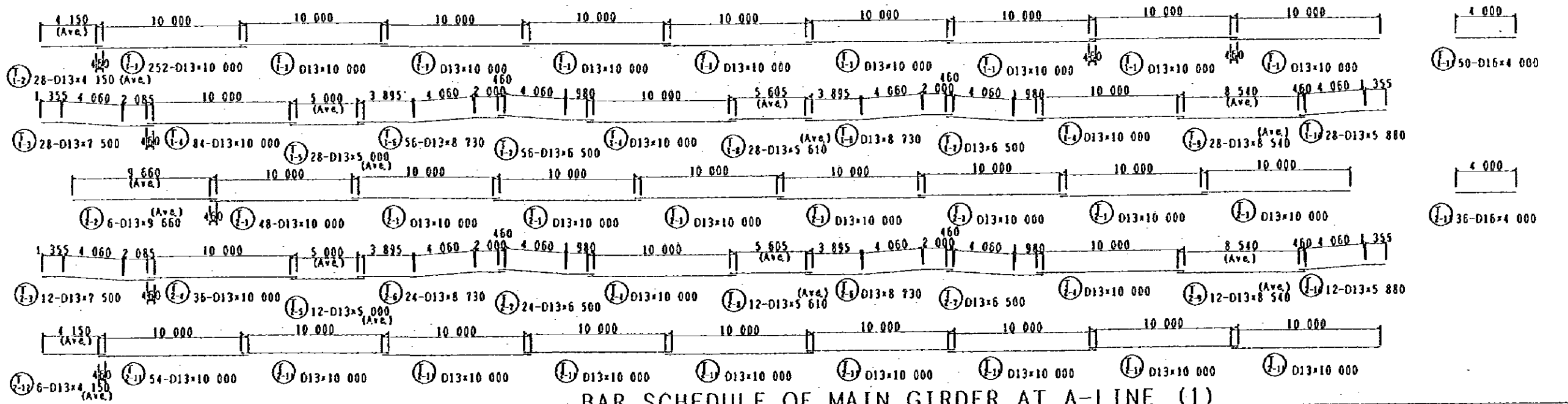
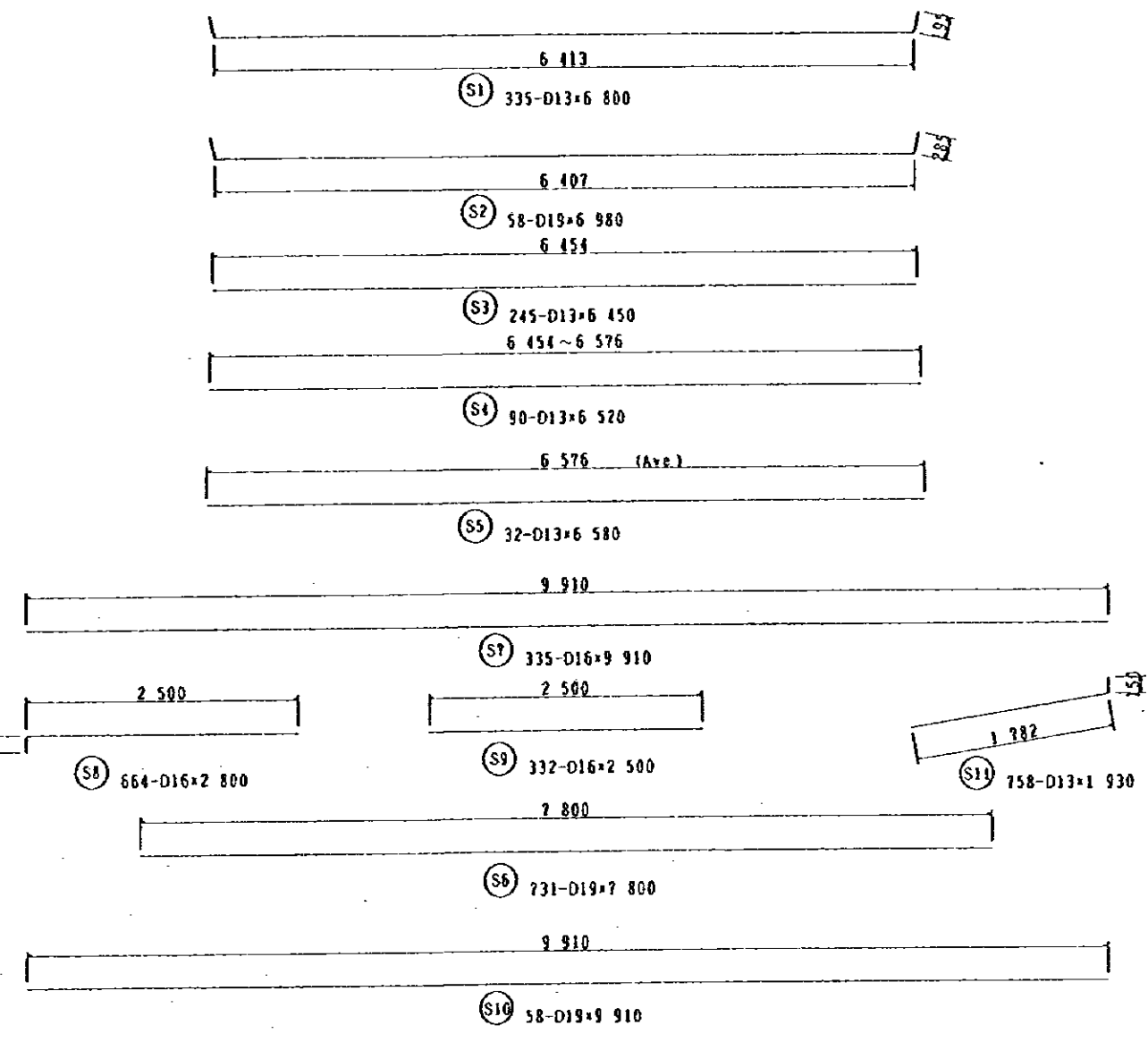
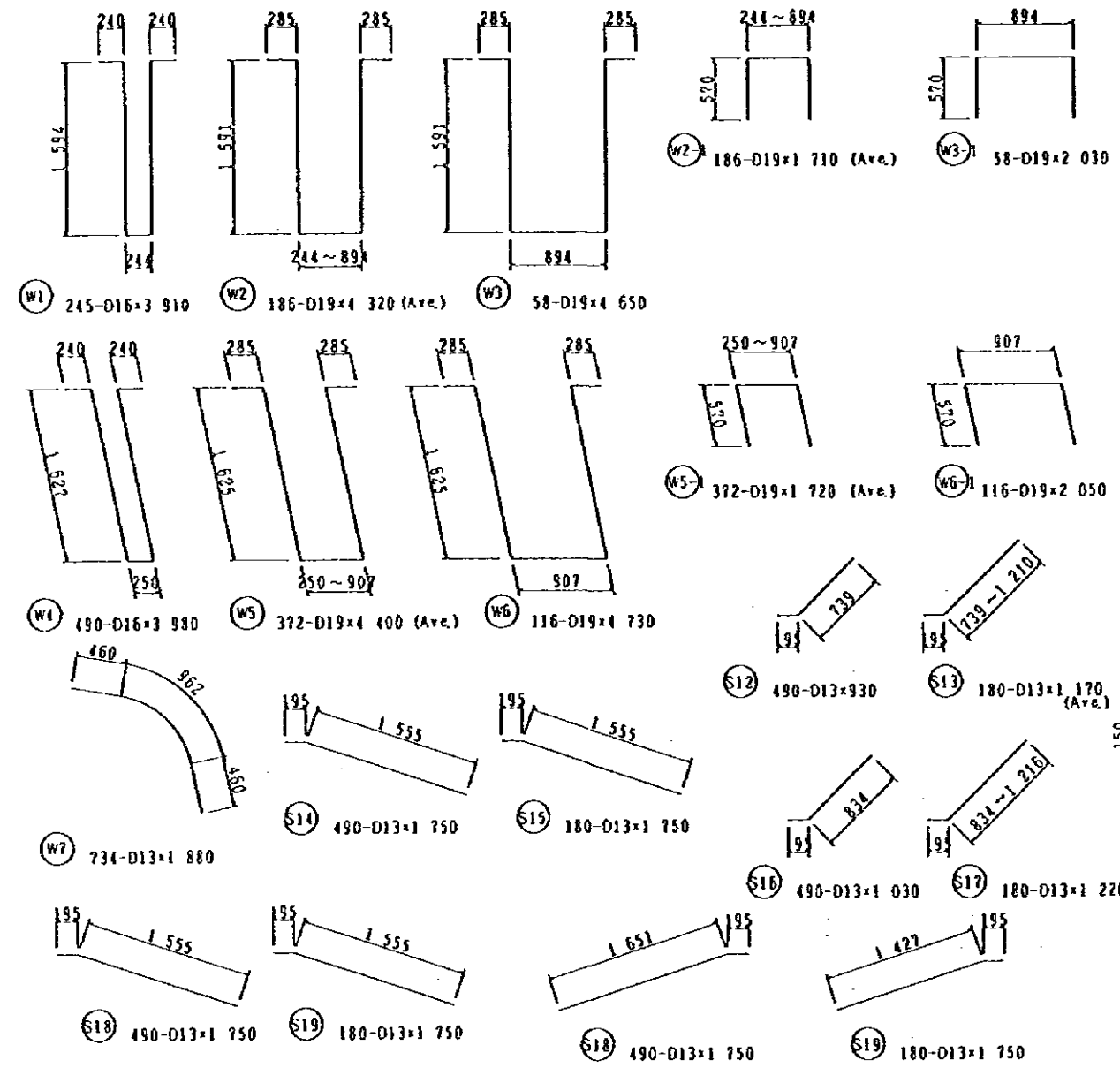
A-LINE RE-BAR ARRANGEMENT-(6) S=1/100

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

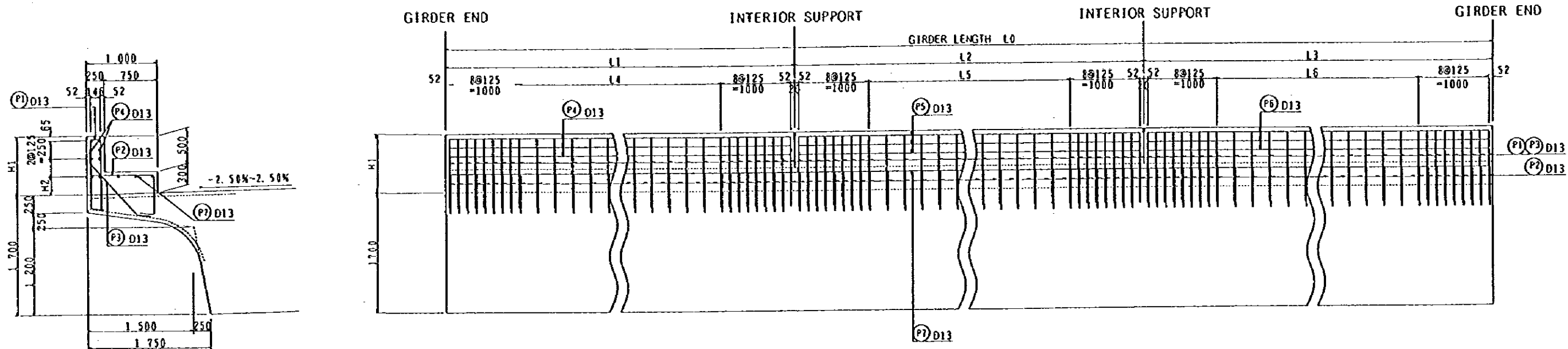
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: RE-BAR ARRANGEMENT(6/6) AT A-LINE
DATE: _____ DWGNO. B-15

RA/18 AOR



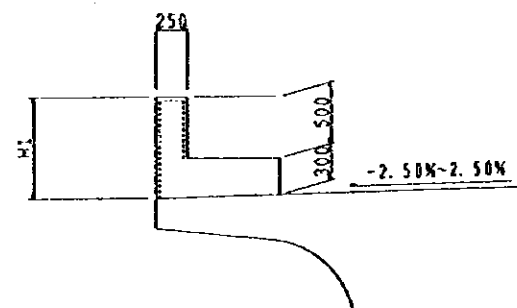
BAR SCHEDULE OF MAIN GIRDER AT A-LINE (1)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: BAR SCHEDULE OF MAIN GIRDER AT A-LINE (1)
		DATE: _____ DWGNO. B-16

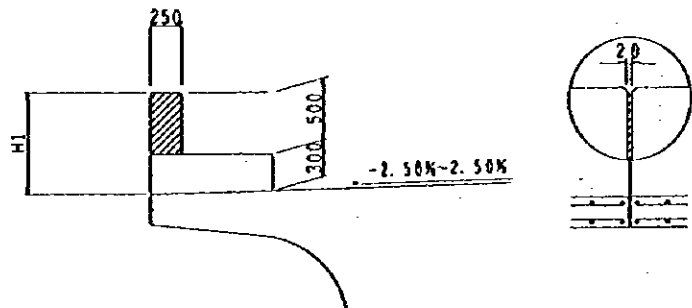


SECTION

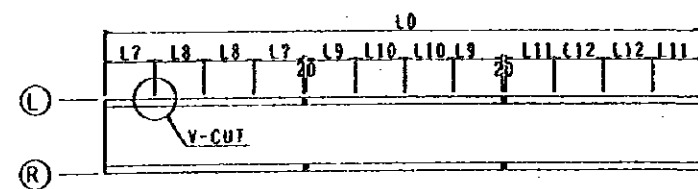
ELEVATION



DETAIL OF V-CUT



CLEARANCE (INTERIOR SUPPORT)



	(P1)-(P2)	(P2)-(P4)	(P4)-(P5)	(P5)-(P7)	REMARKS
L0	90 600	90 600	90 600	89 136	LEVEL
L1	30 165	30 165	30 165	29 680	"
L2	30 270	30 270	30 270	29 776	"
L3	30 165	30 165	30 165	29 680	"
L4	113@248.2-28 051	113@248.2-28 051	113@248.2-28 051	112@246.1-27 566	"
L5	113@249.1-28 146	113@249.1-28 146	113@249.1-28 146	112@246.9-27 652	"
L6	113@248.2-28 051	113@248.2-28 051	113@248.2-28 051	112@246.1-27 566	"
L7	7 572.5	7 572.5	7 572.5	7 335	"
L8	7 500	7 500	7 500	7 500	"
L9	7 625	7 625	7 625	7 378	"
L10	7 500	7 500	7 500	7 500	"
L11	7 572.5	7 572.5	7 572.5	7 335	"
L12	7 500	7 500	7 500	7 500	"
H1	775	775	775	825	
H2	210	210	210	260	
L0	89 600	89 600	89 600	89 966	LEVEL
L1	29 835	29 835	29 835	29 955	"
L2	29 930	29 930	29 930	30 056	"
L3	29 835	29 835	29 835	29 955	"
L4	113@245.3-27 721	113@245.3-27 721	113@245.3-27 721	112@248.6-27 831	"
L5	113@246.1-27 806	113@246.1-27 806	113@246.1-27 806	112@248.4-27 932	"
L6	113@245.3-27 721	113@245.3-27 721	113@245.3-27 721	112@248.6-27 831	"
L7	7 4125			7 4725	"
L8	7 500			7 500	"
L9	7 455			7 518	"
L10	7 500			7 500	"
L11	7 4125			7 4725	"
L12	7 500			7 500	"
H1	825	825	825	775	
H2	260	260	260	210	

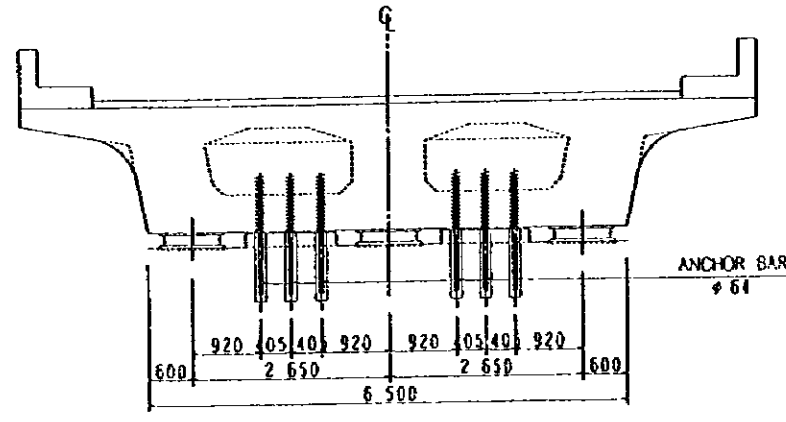
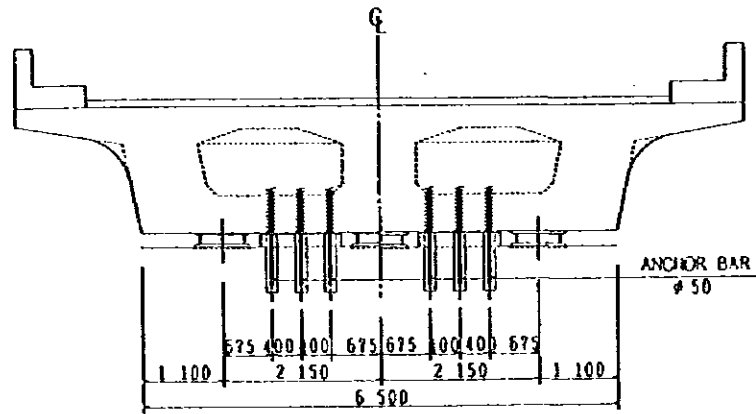
DIMENSION LIST

RAILING AND CANTILEVER SLAB AT A-LINE

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 JICA STUDY TEAM
 PACIFIC CONSULTANTS INTERNATIONAL
 FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
 PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
 TITLE: RAILING AND CANTILEVER SLAB AT A-LINE
 DATE: _____ DWGNO. B-18



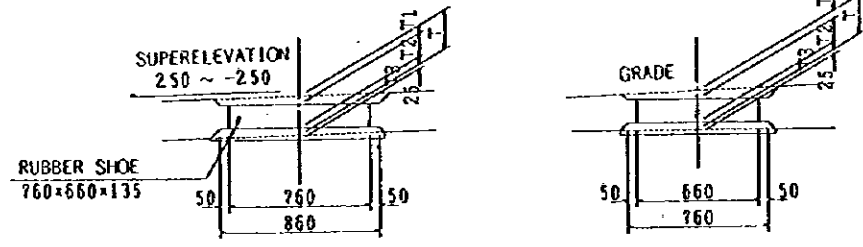
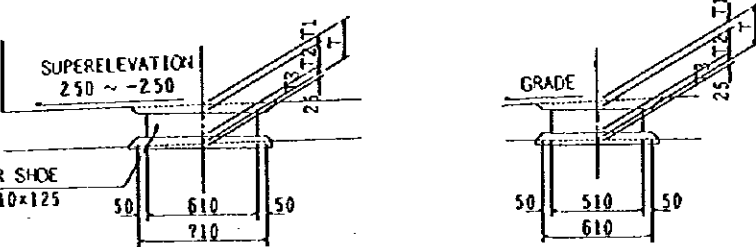
		T1	T2	T3	T	H1	REMARKS
(A1)	A1	25	125	40	190	535	Mov.
	P1	30	135	40	205	---	Fix.
(P2)	P2	30	135	40	205	---	Fix.
	P3-1	31	125	40	196	529	Mov.
(P3)	P3-2	59	125	40	224	501	Mov.
	P4	30	135	40	205	---	Fix.
(P6)	P5	30	135	40	205	---	Fix.
	P6-1	45	125	40	210	515	Mov.
(P6)	P6-2	45	125	40	210	515	Mov.
	P7	30	135	40	205	---	Fix.
(P8)	P8	30	135	40	205	---	Fix.
	P9-1	60	125	40	225	500	Mov.
(P9)	P9-2	30	125	40	195	530	Mov.
	P10	30	135	40	205	---	Fix.
(A2)	P11	30	135	40	205	---	Fix.
	A2	25	125	40	190	535	Mov.

DIMENSION LIST

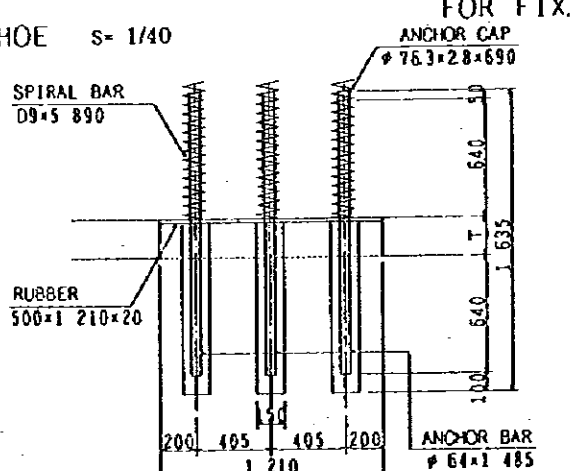
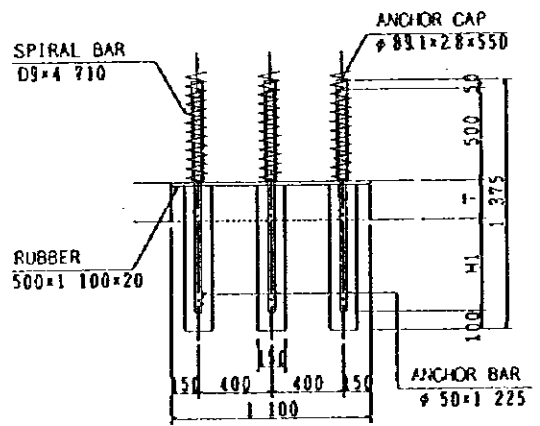
(PER GIRDER)

	DESCRIPTION	UNIT	QUANTITY	REMARKS
FIX.	ANCHOR BAR (GALV)	kg	4508	w=37.57 kg/pc.
	ANCHOR CAP (GALV)	kg	422	w=352 kg/pc.
	FILLER	kg	11.7	w=0.975 kg/anc.
	SYNTHETIC RUBBER SHOE	Pcs	6	660x760x135
	REINFORCING BAR	kg	803	w=1338kg/Set
	SPIRAL BAR	kg	39.6	w=330 kg/pc.
	NON SHRINKAGE MORTAR	m ³	0.292	0.0486m ³ /Shoe
		m ³	0.164	0.0137m ³ /Hole
	ANCHOR BASE CON.	m ³	0.448	0.112 m ³ /Base
	REINFORCING BAR	kg	524	w=1310 kg/Base
	RUBBER	Pcs	4	1 210x500x20
	MOV.	ANCHOR BAR (GALV)	kg	2264
ANCHOR CAP (GALV)		kg	39.6	w=330 kg/pc.
FILLER		kg	36.5	w=3045kg/anc.
SYNTHETIC RUBBER SHOE		Pcs	6	510x610x125
REINFORCING BAR		kg	528	w=879kg/Set
SPIRAL BAR		kg	31.7	w=264 kg/pc.
NON SHRINKAGE MORTAR		m ³	0.199	0.0332m ³ /Shoe
		m ³	0.154	0.0128m ³ /Hole
ANCHOR BASE CON.		m ³	0.452	0.113 m ³ /Base
REINFORCING BAR		kg	51.0	w=1276kg/Base
RUBBER		Pcs	4	1 100x500x20

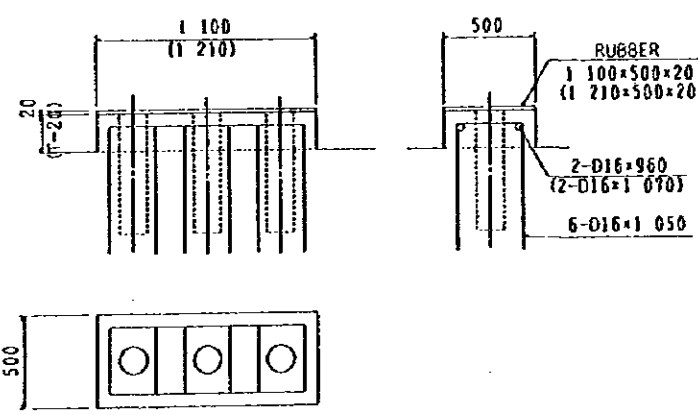
MATERIAL LIST



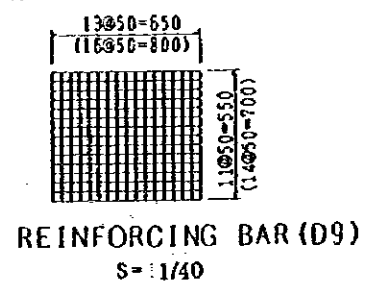
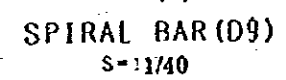
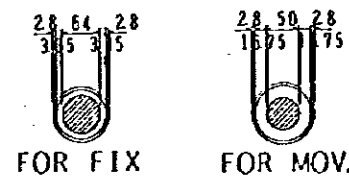
DETAIL OF SHOE s= 1/40



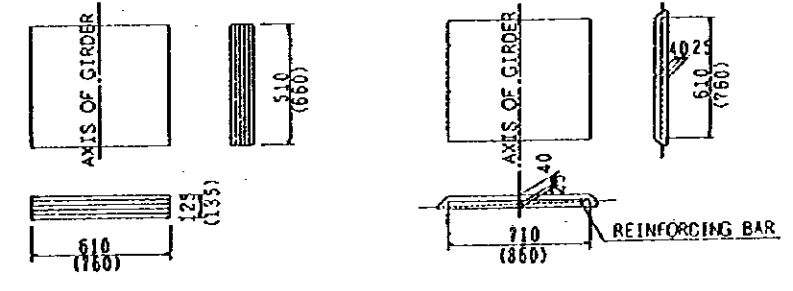
DETAIL OF ANCHOR BAR s= 1/40



DETAIL OF ANCHOR BASE s= 1/40



DETAIL OF SHOE AND ANCHOR BAR AT A-LINE

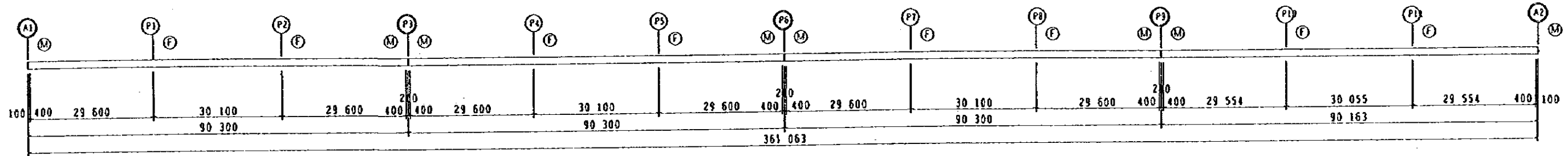


NOTE: () IS FOR FIX

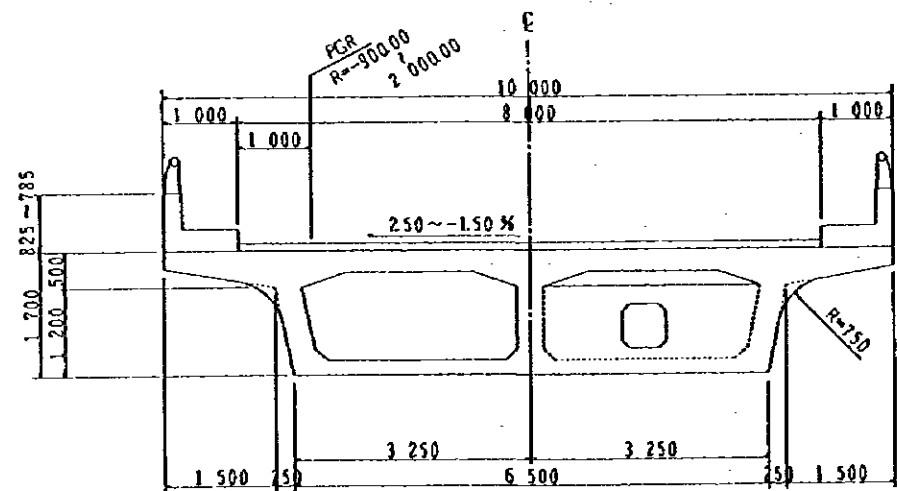
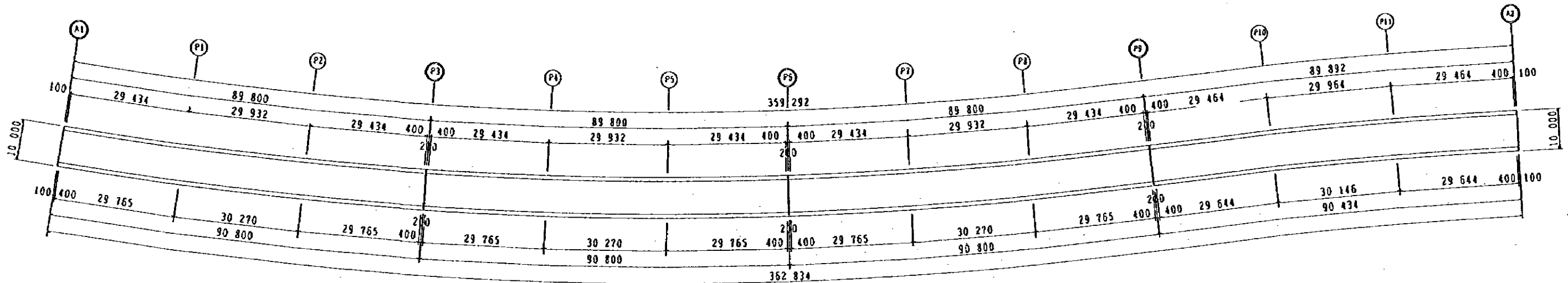
NOTES:

<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</p> <p>JICA STUDY TEAM</p> <p>PACIFIC CONSULTANTS INTERNATIONAL</p> <p>FUKUYAMA CONSULTANTS INTERNATIONAL</p>	<p>CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS</p>	
	<p>PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY</p>	
	<p>TITLE: DETAIL OF SHOE AND ANCHOR BAR AT A-LINE</p>	<p>DATE</p>

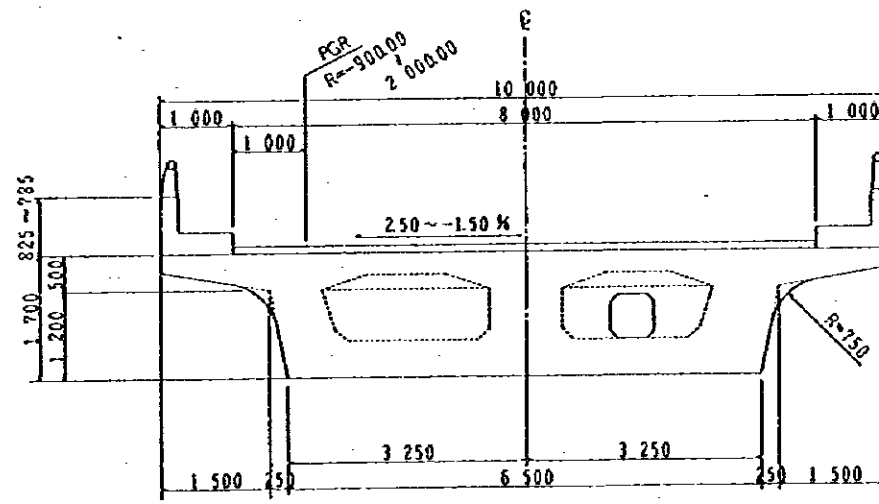
RA/18 AQR



PROFILE OF BRIDGE s=1/1000
(AT CENTER OF STRUCTURE)



TYPICAL SECTION MID SPAN
s= 1/100



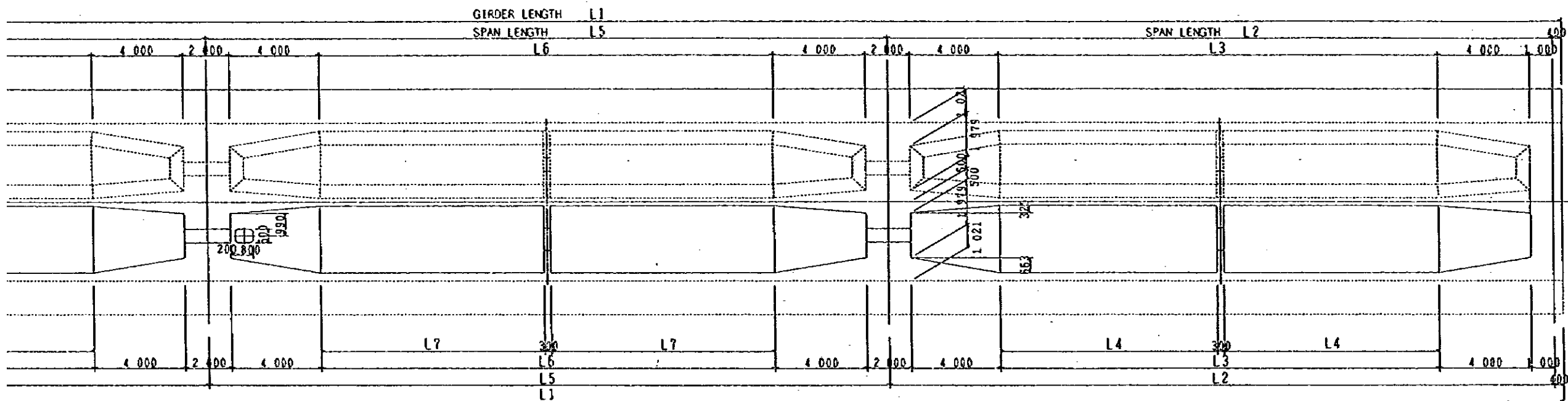
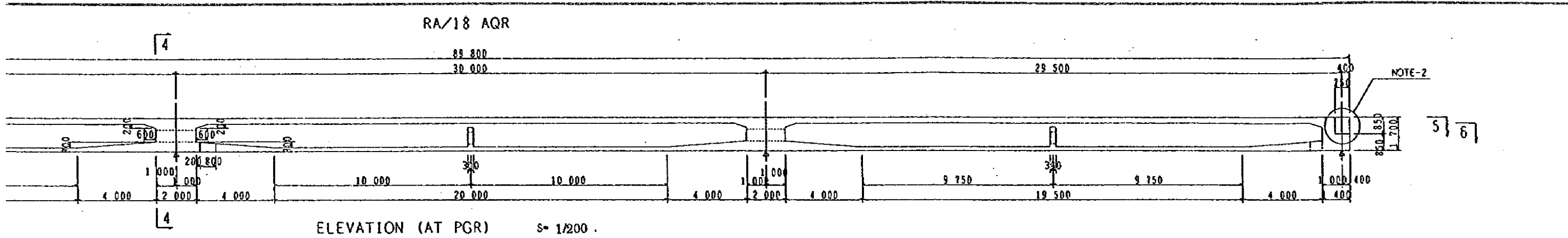
END SUPPORT INTERIOR SUPPORT
s= 1/100

GENERAL VIEW OF BRIDGE AT B-LINE

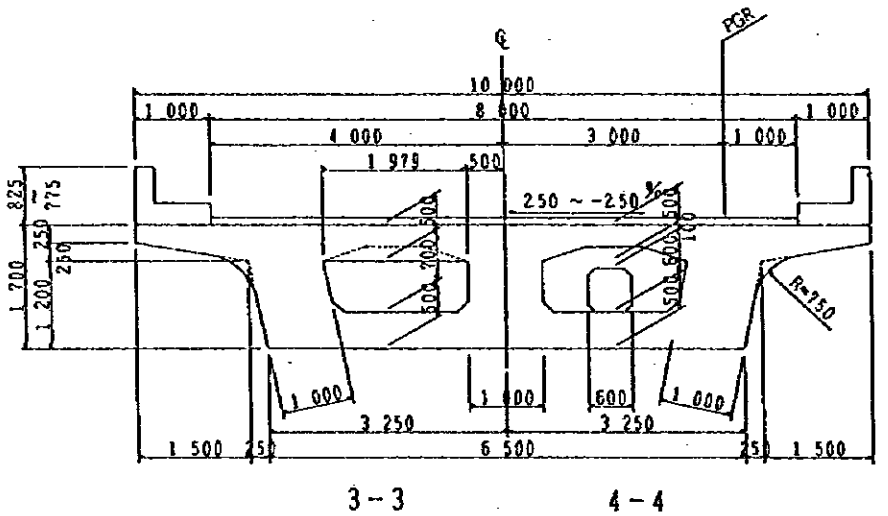
NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

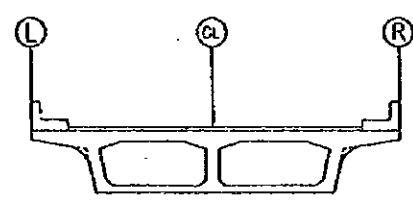
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: GENERAL VIEW OF BRIDGE AT B-LINE
DATE: _____
DWGNO. B-20



- NOTE-1 GIRDER END SHALL BE MADE VERTICALLY.
- NOTE-2 RECESS FOR ANCHORAGE
- NOTE-3 POUR CONCRETE AFTER TENSIONING EXCEPT AT ABATMENT.
- NOTE-4 ONLY PLAN DISTANCE IS CONSIDERED



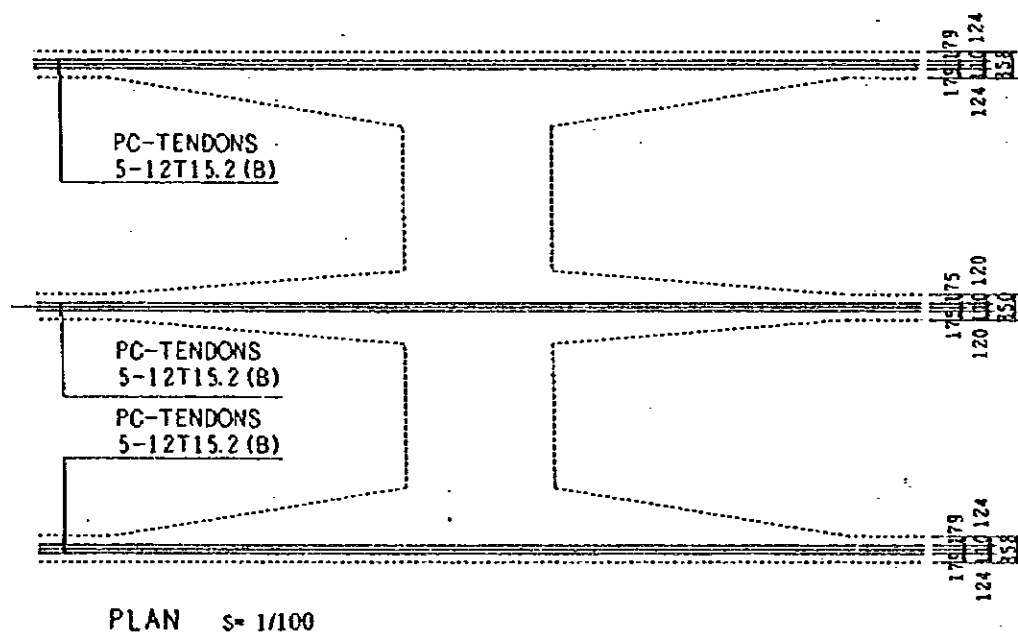
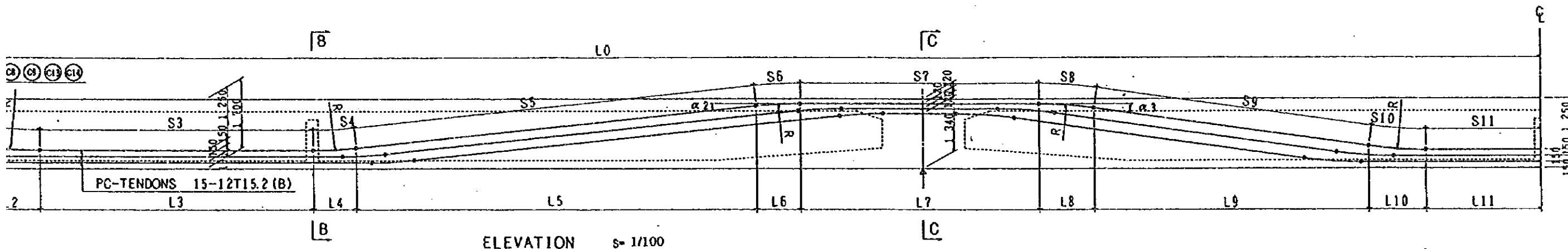
		L1	L2	L3	L4	L5	L6	L7	R	REMARKS
A1 ~ F3	(L)	89 600	29 434	19 434	9 567.0	29 932	19 932	9 816.0	-898.00	
	(C)	90 100	29 600	19 600	9 650.0	30 100	20 100	9 900.0	-903.00	
	(R)	90 600	29 765	19 765	9 732.5	30 270	20 270	9 985.0	-908.00	
P3 ~ P6	(L)	89 600	29 434	19 434	9 567.0	29 932	19 932	9 816.0	-898.00	
	(C)	90 100	29 600	19 600	9 650.0	30 100	20 100	9 900.0	-903.00	
	(R)	90 600	29 765	19 765	9 732.5	30 270	20 270	9 985.0	-908.00	
P6 ~ P9	(L)	89 600	29 434	19 434	9 567.0	29 932	19 932	9 816.0	-898.00	
	(C)	90 100	29 600	19 600	9 650.0	30 100	20 100	9 900.0	-903.00	
	(R)	90 600	29 765	19 765	9 732.5	30 270	20 270	9 985.0	-908.00	
P9 ~ A2	(L)	89 692	29 464	19 464	9 582.0	29 964	19 964	9 832.0	+2002.0	
	(C)	89 963	29 554	19 554	9 627.0	30 055	20 055	9 877.5	+1997.0	
	(R)	90 234	29 644	19 644	9 672.0	30 146	20 146	9 923.0	+1992.0	



SECTION s=1/100
STRUCTURAL DETAIL OF GIRDER AT B-LINE

DIMENSION LIST

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS	
	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY	
JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	TITLE: STRUCTURAL DETAIL OF GIRDER AT B-LINE	
	DATE	DWGNO. B-21

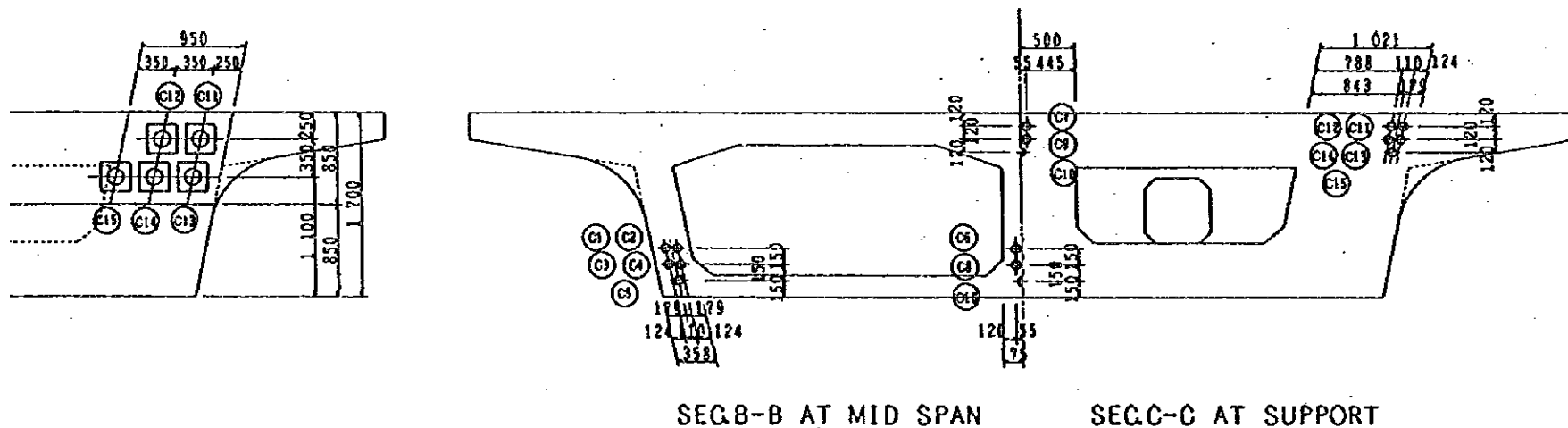


	(A1)~(P3)		(P3)~(P6)		(P6)~(P9)		(P9)~(A2)			REMARKS
	①②③④⑤	⑥⑦⑧⑨	⑩⑪⑫⑬	⑭⑮⑯⑰	⑱⑲⑳㉑	㉒㉓㉔	㉕㉖㉗	㉘㉙㉚	㉛㉜㉝	
R	10 000	10 000	10 000	10 000	10 000	10 000				
α 1	8 000	8 000	12 500	8 000	8 000	12 500				
2	6 000	6 000	6 000	6 000	6 000	6 000				
3	8 000	8 000	8 000	8 000	8 000	8 000				
S 1	6 486	5 049	3 294	6 486	5 049	3 294				
2	1 396	1 396	2 182	1 396	1 396	2 182				
3	6 660	8 798	10 524	6 614	8 752	10 478				
4	1 047	1 047	1 047	1 047	1 047	1 047				
5	9 762	10 049	10 336	9 762	10 049	10 336				
6	1 047	1 047	1 047	1 047	1 047	1 047				
7	5 777	3 777	1 777	5 777	3 777	1 777				
8	1 396	1 396	1 396	1 396	1 396	1 396				
9	6 721	6 936	7 152	6 721	6 936	7 152				
10	1 396	1 396	1 396	1 396	1 396	1 396				
11	2 810	3 596	4 383	2 788	3 574	4 361				
Σ S	44 498	44 487	44 534	44 430	44 419	44 466				
2 Σ S	88 996	88 974	89 068	88 860	88 838	88 932	13 212 kg/m			
w	1 176	1 176	1 177	1 174	1 174	1 175				
n	6	6	3	6	6	3	PER GIRDER			
W	7 056	7 056	3 531	7 044	7 044	3 525	PER GIRDER			

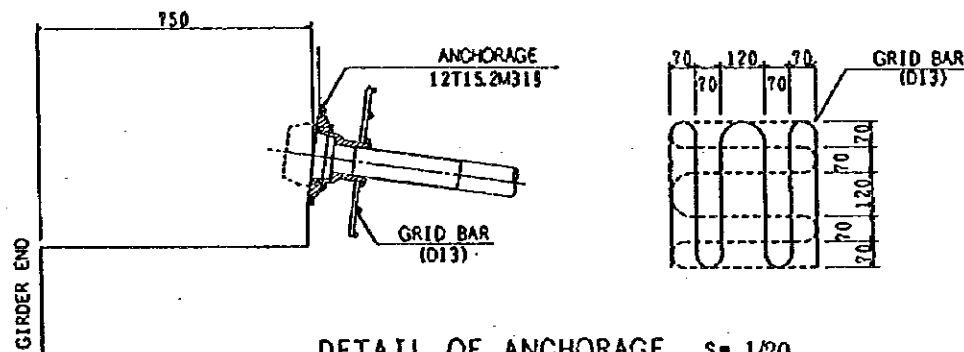
	(A1)~(P3)		(P3)~(P6)		(P6)~(P9)		(P9)~(A2)			REMARKS	
	①②③④⑤	⑥⑦⑧⑨	⑩⑪⑫⑬	⑭⑮⑯⑰	⑱⑲⑳㉑	㉒㉓㉔	㉕㉖㉗	㉘㉙㉚	㉛㉜㉝		
L 0	90 100			89 963							
1	6 423	5 000	3 216	6 423	5 000	3 216					
2	1 392	1 392	2 164	1 392	1 392	2 164					
3	6 660	8 798	10 524	6 614	8 752	10 478					
4	1 045	1 045	1 045	1 045	1 045	1 045					
5	9 709	9 994	10 280	9 709	9 994	10 280					
6	1 045	1 045	1 045	1 045	1 045	1 045					
7	5 777	3 777	1 777	5 777	3 777	1 777					
8	1 392	1 392	1 392	1 392	1 392	1 392					
9	6 655	6 869	7 082	6 655	6 869	7 082					
10	1 392	1 392	1 392	1 392	1 392	1 392					
11	2 810	3 596	4 383	2 788	3 574	4 361					

- NOTE : (1).PLAN DISTANCE IS TAKEN FROM THE CENTER OF STRUCTURE.
 (2).LENGTH DEVIATION OF EACH ACTUAL TENDON FROM THE TYPICAL LENGTH AT CENTER OF STRUCTURE DUE TO HORIZONTAL CURVATURE OF BRIDGE SHALL BE ADJUSTED AT L2 AND L11.
 (3). α IS TAKEN AGAINST TOP SURFACE OF GIRDER
 (4).EXTRA LENGTH OF TENDONS FOR TENSIONING OPERATION IS NOT INCLUDED.

DIMENSION LIST

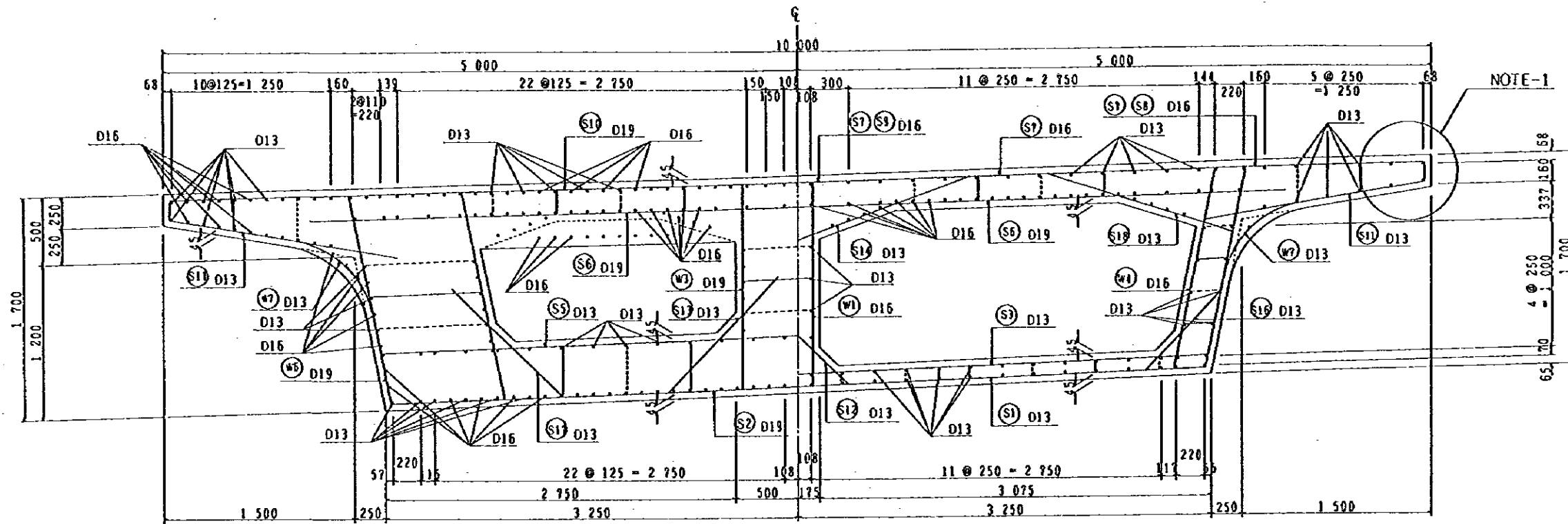


DETAIL OF TENDONS AT B-LINE



DETAIL OF ANCHORAGE s=1/20

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
JICA STUDY TEAM	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
PACIFIC CONSULTANTS INTERNATIONAL	TITLE: DETAIL OF TENDONS AT B-LINE
FUKUYAMA CONSULTANTS INTERNATIONAL	DATE: _____
	DWGNO. B-22



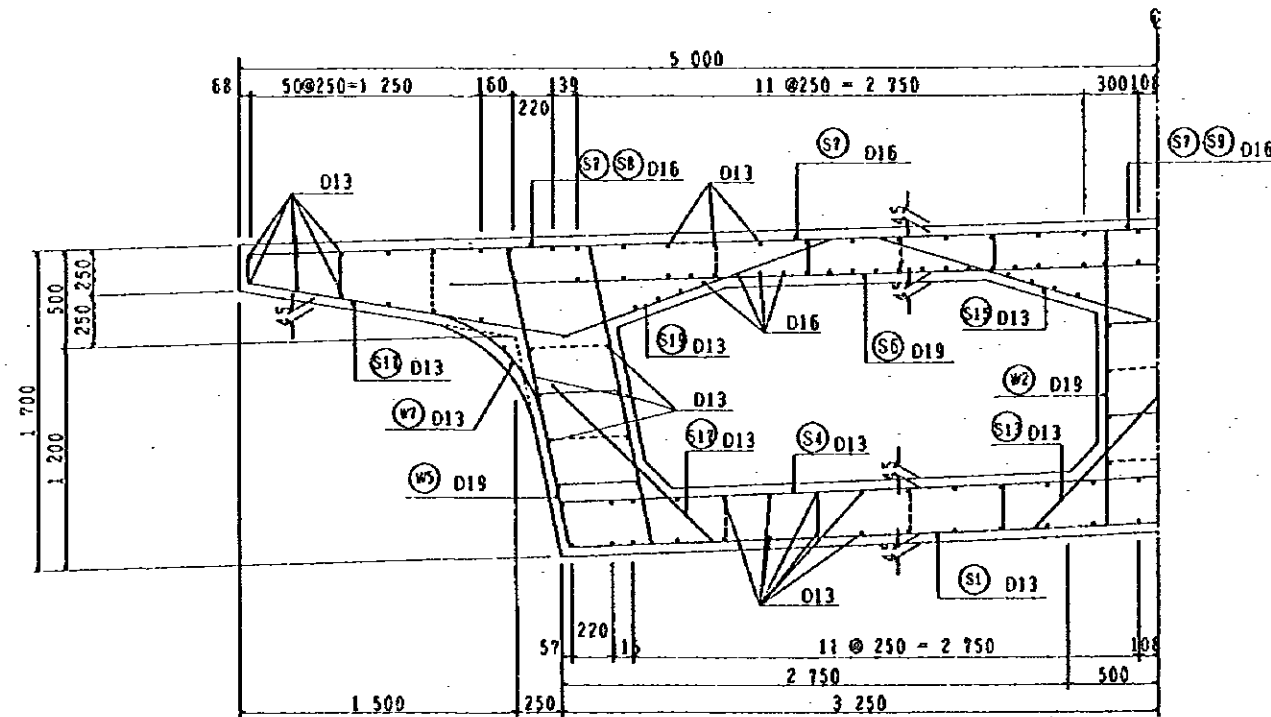
AT INTERIOR SUPPORT

AT MID SPAN

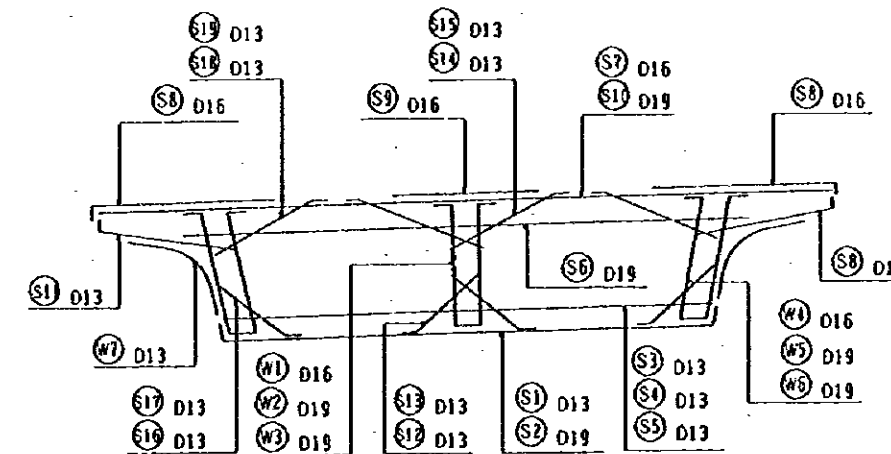
NOTE-1 : (1).REINFORCEMENT FOR WALL-RAILING SHALL BE ASSEMBLED TOGETHER WITH REINFORCEMENT FOR MAIN GIRDER BEFORE CASTING

(2).SEE DRAWING RAILING AND CANTILEVER SLAB

NOTE-2 : (1).FOR END SUPPORT, SEE DRAWING RE-BAR ARRANGEMENT-(2), (4), (6).



AT WEB WIDENED



PROFILE OF MAIN-REINFORCEMENT

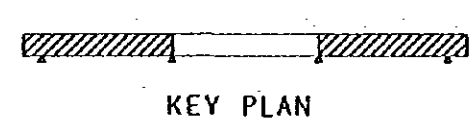
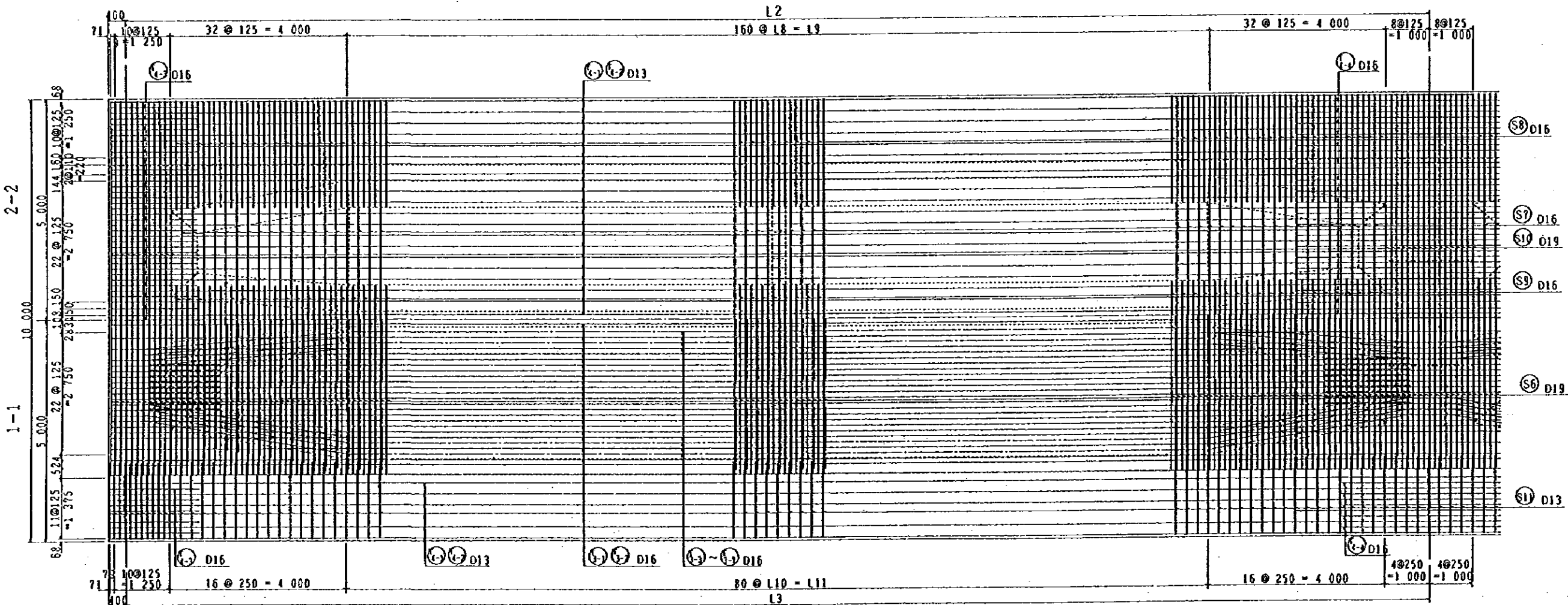
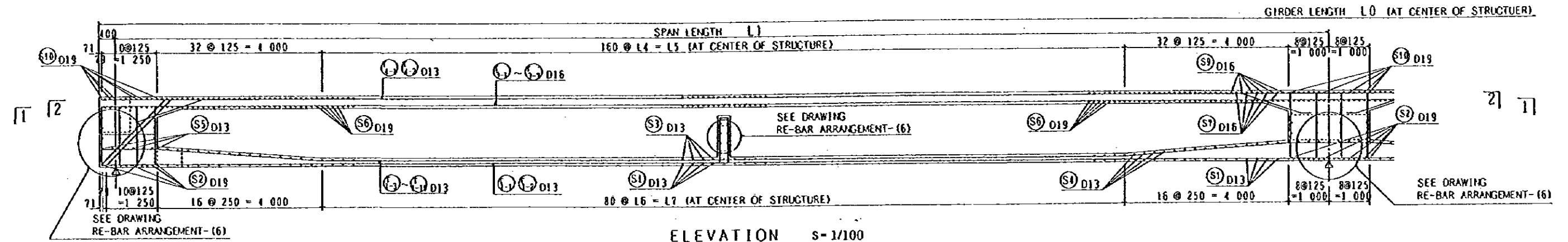
B-LINE : TYPICAL RE-BAR ARRANGEMENT-(1)

S-1/40

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT : MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE RE-BAR ARRANGEMENT(I/6) AT B-LINE
DATE
DWGNO. B-23



	L0	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
A1~P3	90 100	29 600	1225	19 600	245.0	19 600	29 434	121.5	19 434	29 765	247.1	19 765
P3~P6	90 100	29 600	1225	19 600	245.0	19 600	29 434	121.5	19 434	29 765	247.1	19 765
P6~P9	90 100	29 600	1225	19 600	245.0	19 600	29 434	121.5	19 434	29 765	247.1	19 765
P9~A2	89 963	29 554	1222	19 554	244.4	19 554	29 464	121.7	19 464	29 644	245.6	19 644

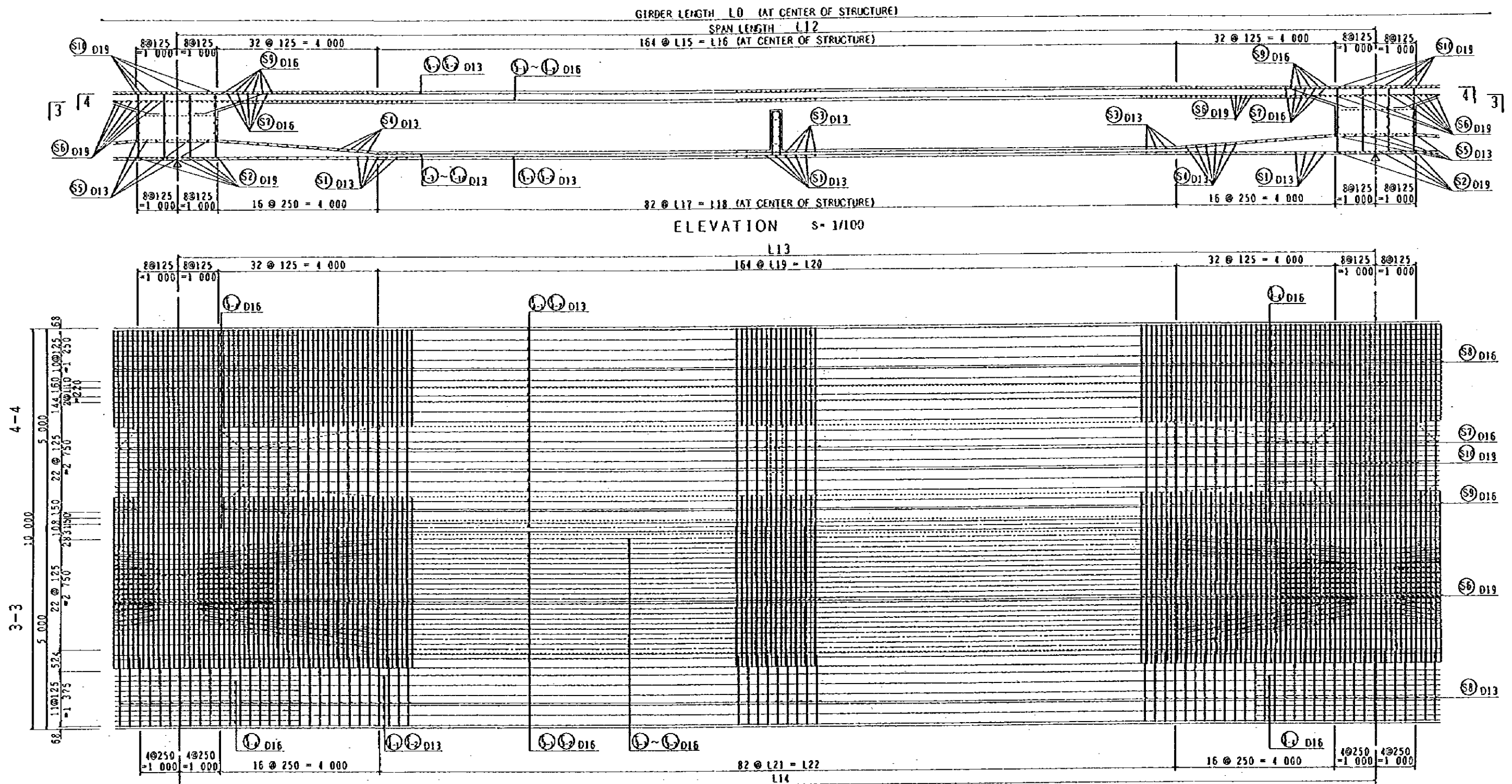
DIMENSION LIST (FOR END SPAN)

B-LINE RE-BAR ARRANGEMENT-(2)

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
YUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: RE-BAR ARRANGEMENT(1/6) AT B-LINE
DATE: _____ DWGNO.: B-24

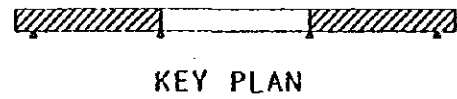
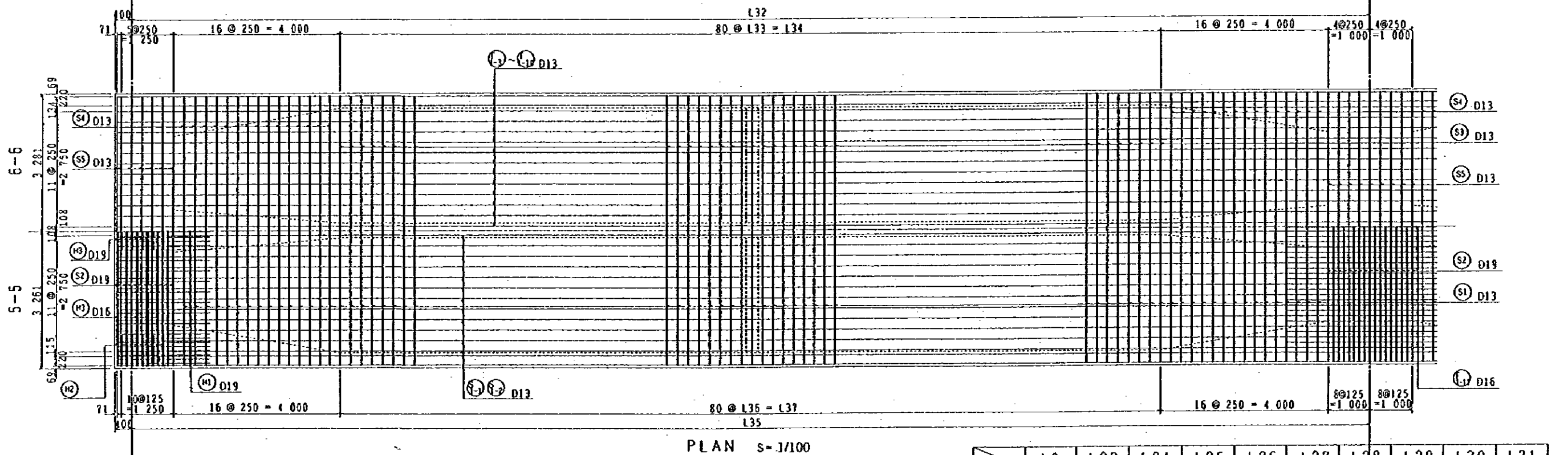
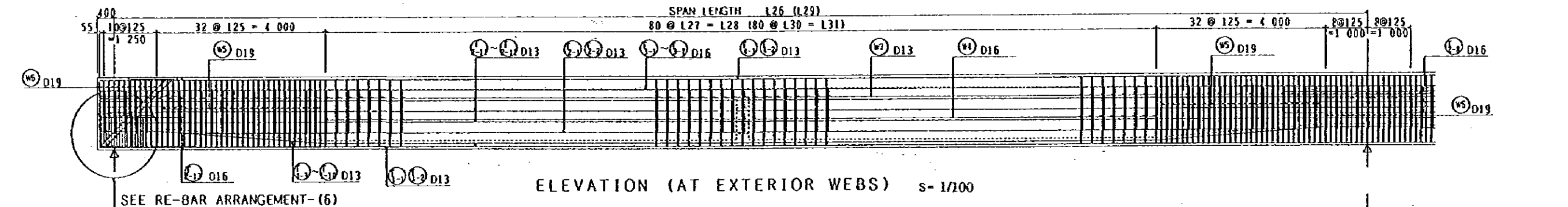
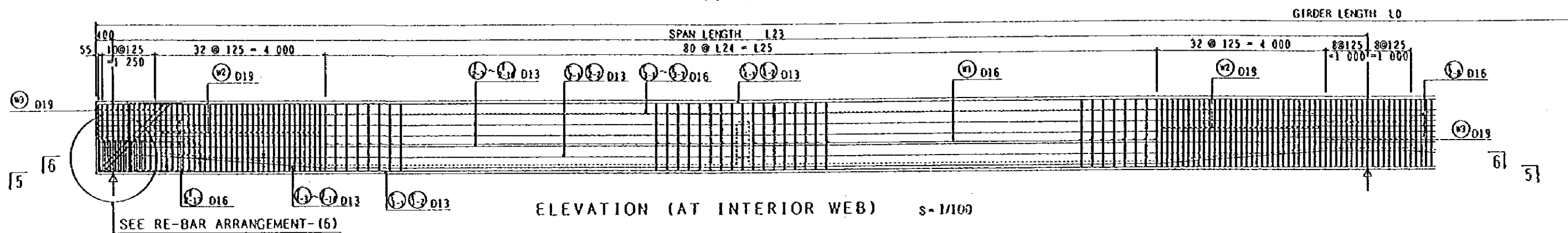


	L0	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22
(A1)~(P3)	90 100	30 100	1226	20 100	245.1	20 100	29 930	121.5	19 930	30 270	247.2	20 270
(P3)~(P6)	90 100	30 100	1226	20 100	245.1	20 100	29 930	121.5	19 930	30 270	247.2	20 270
(P6)~(P9)	90 100	30 100	1226	20 100	245.1	20 100	29 930	121.5	19 930	30 270	247.2	20 270
(P9)~(A2)	89 963	30 055	1223	20 055	244.6	20 055	29 964	121.7	19 964	30 146	245.7	20 146

B-LINE RE-BAR ARRANGEMENT-(3) DIMENSION LIST (FOR MID SPAN)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: RE-BAR ARRANGEMENT(3/6) AT B-LINE
		DATE: _____ DWGNO. B-25

RA/18 AQR



	L0	L23	L24	L25	L26	L27	L28	L29	L30	L31
M1~P3	90 100	29 600	2450	19 600	29 492	2437	19 492	29 707	2463	19 707
P3~P6	90 100	29 600	2450	19 600	29 492	2437	19 492	29 707	2463	19 707
P6~P9	90 100	29 600	2450	19 600	29 492	2437	19 492	29 707	2463	19 707
P9~A2	89 963	29 554	2444	19 554	29 495	2437	19 495	29 612	2452	19 612

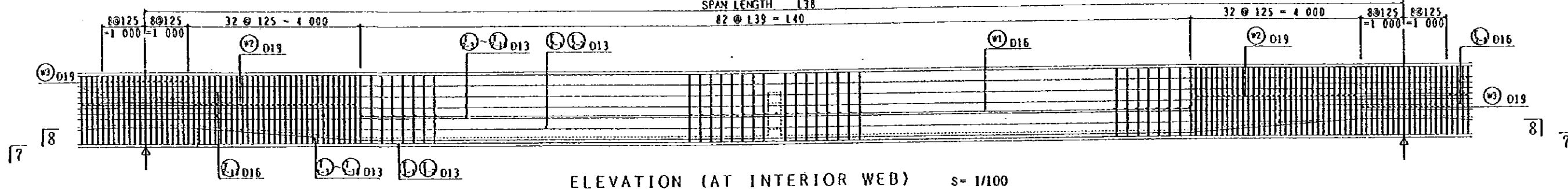
DIMENSION LIST (FOR END SPAN)

B-LINE RE-BAR ARRANGEMENT-(4)

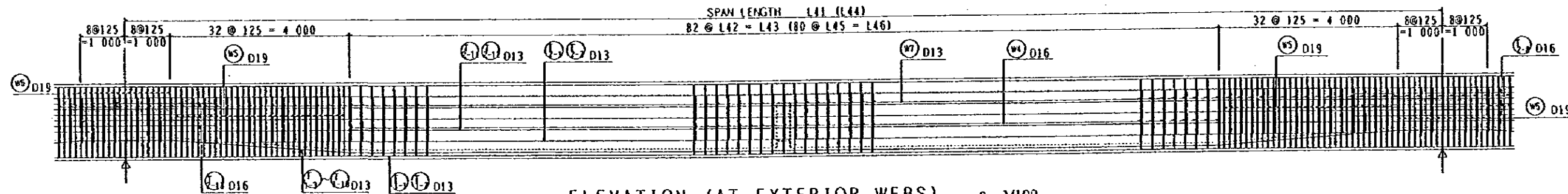
NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: RE-BAR ARRANGEMENT(4/6) AT B-LINE
		DATE: _____ DWGNO. B-26

RA/18 AQR

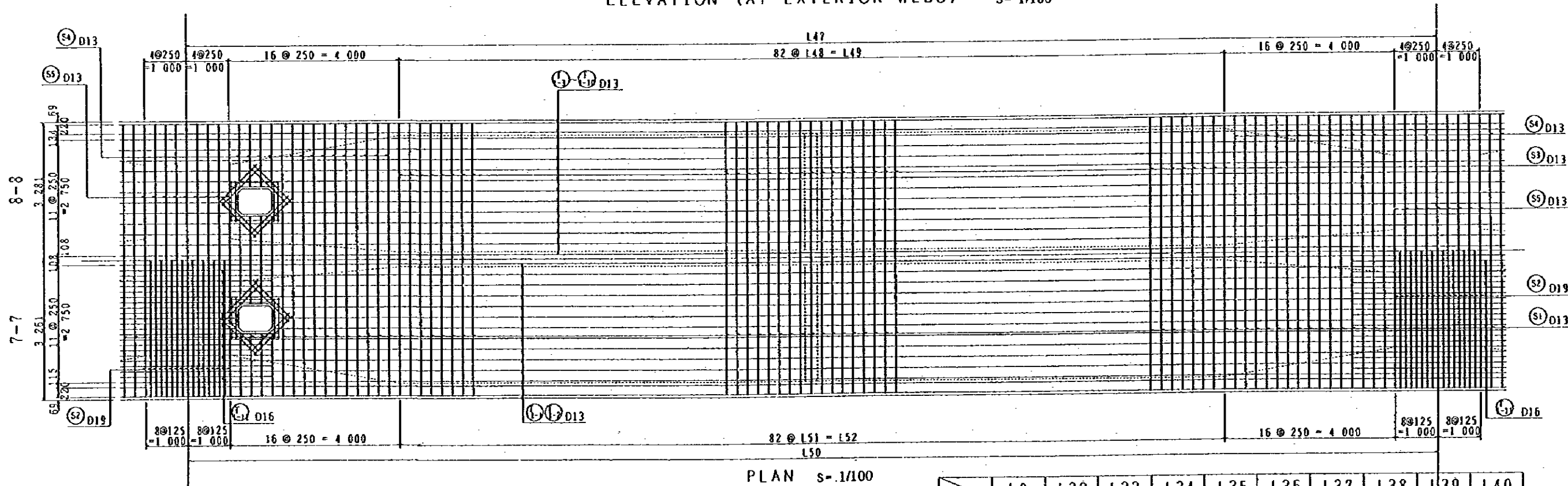
GIRDER LENGTH L0
SPAN LENGTH L38
82 @ L39 = L40



ELEVATION (AT INTERIOR WEB) s= 1/100



ELEVATION (AT EXTERIOR WEBS) s= 1/100



PLAN s= 1/100



KEY PLAN

	L0	L32	L33	L34	L35	L36	L37	L38	L39	L40
(A1)~(P3)	90 100	30 100	245.1	20 100	29 991	243.8	19 991	30 211	2465	20 211
(P3)~(P6)	90 100	30 100	245.1	20 100	29 991	243.8	19 991	30 211	2465	20 211
(P6)~(P8)	90 100	30 100	245.1	20 100	29 991	243.8	19 991	30 211	2465	20 211
(P8)~(A2)	89 963	30 055	244.6	20 055	29 996	243.9	19 996	30 115	2453	20 115

DIMENSION LIST (FOR MID SPAN)

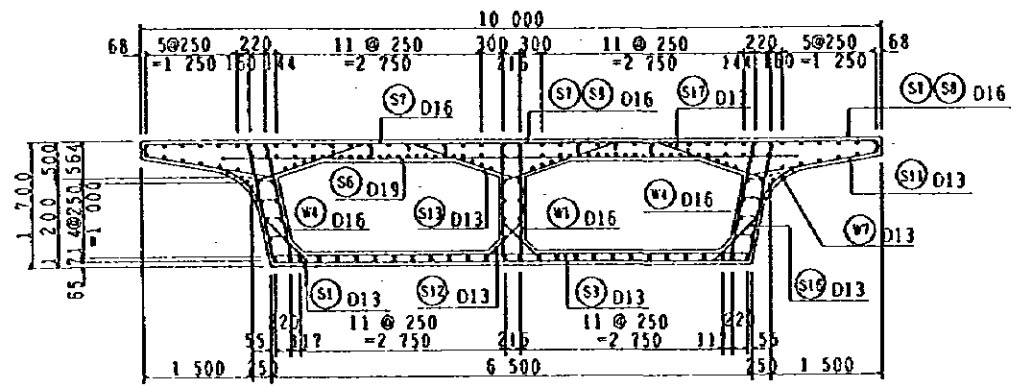
B-LINE RE-BAR ARRANGEMENT-(5)

NOTES:

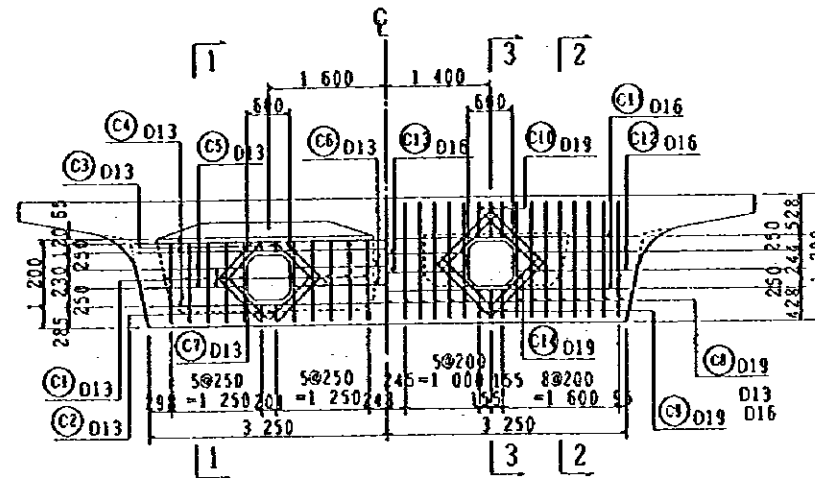
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: RE-BAR ARRANGEMENT(S/6) AT B-LINE
DATE: _____ DWGNO. B-27

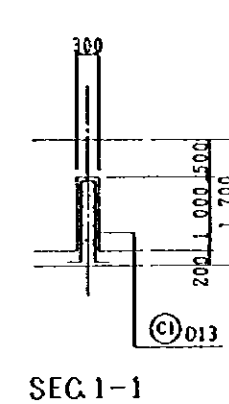
RA/18 AQR



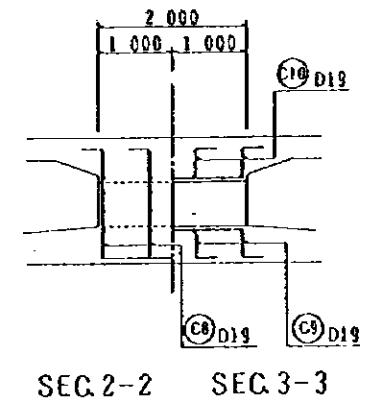
AT TYPICAL SECTION



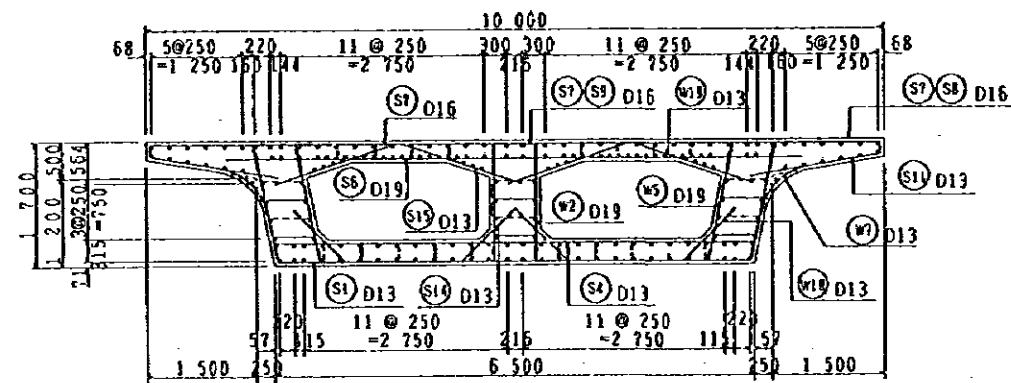
CENTER OF SPAN INTERIOR SUPPORT



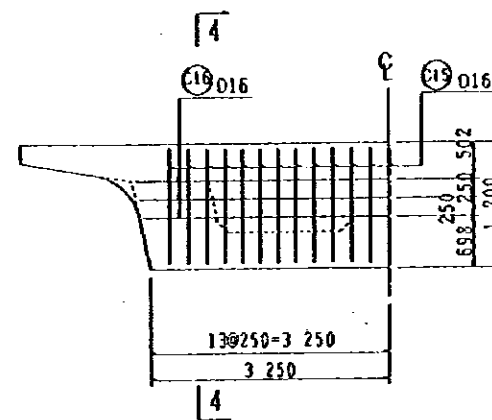
SEC. 1-1



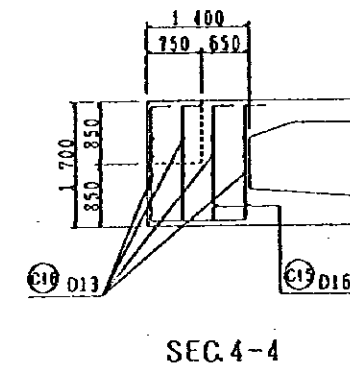
SEC. 2-2 SEC. 3-3



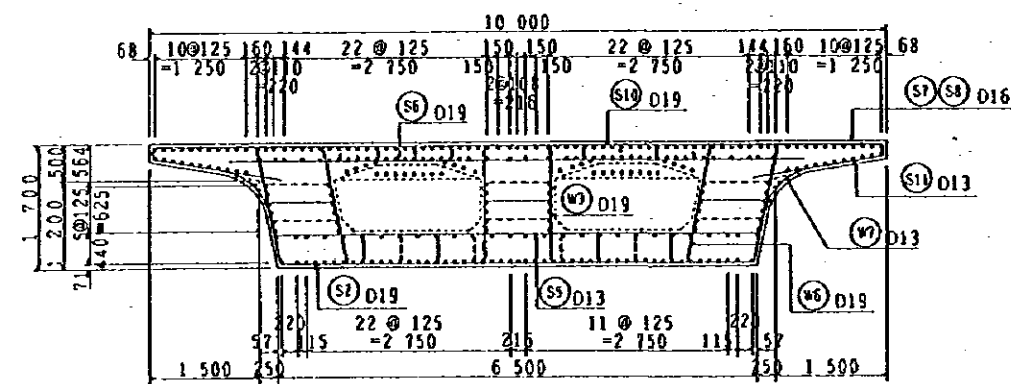
AT WEB WIDENED



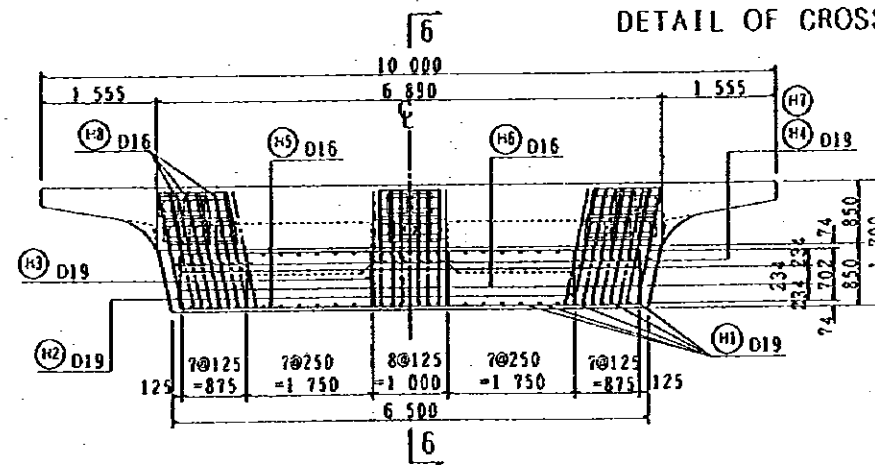
END SUPPORT



SEC. 4-4

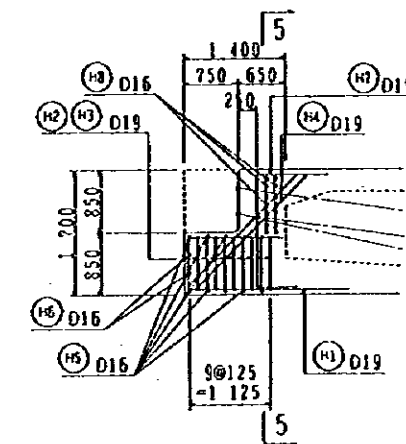


AT INTERIOR SUPPORT



SEC. 5-5

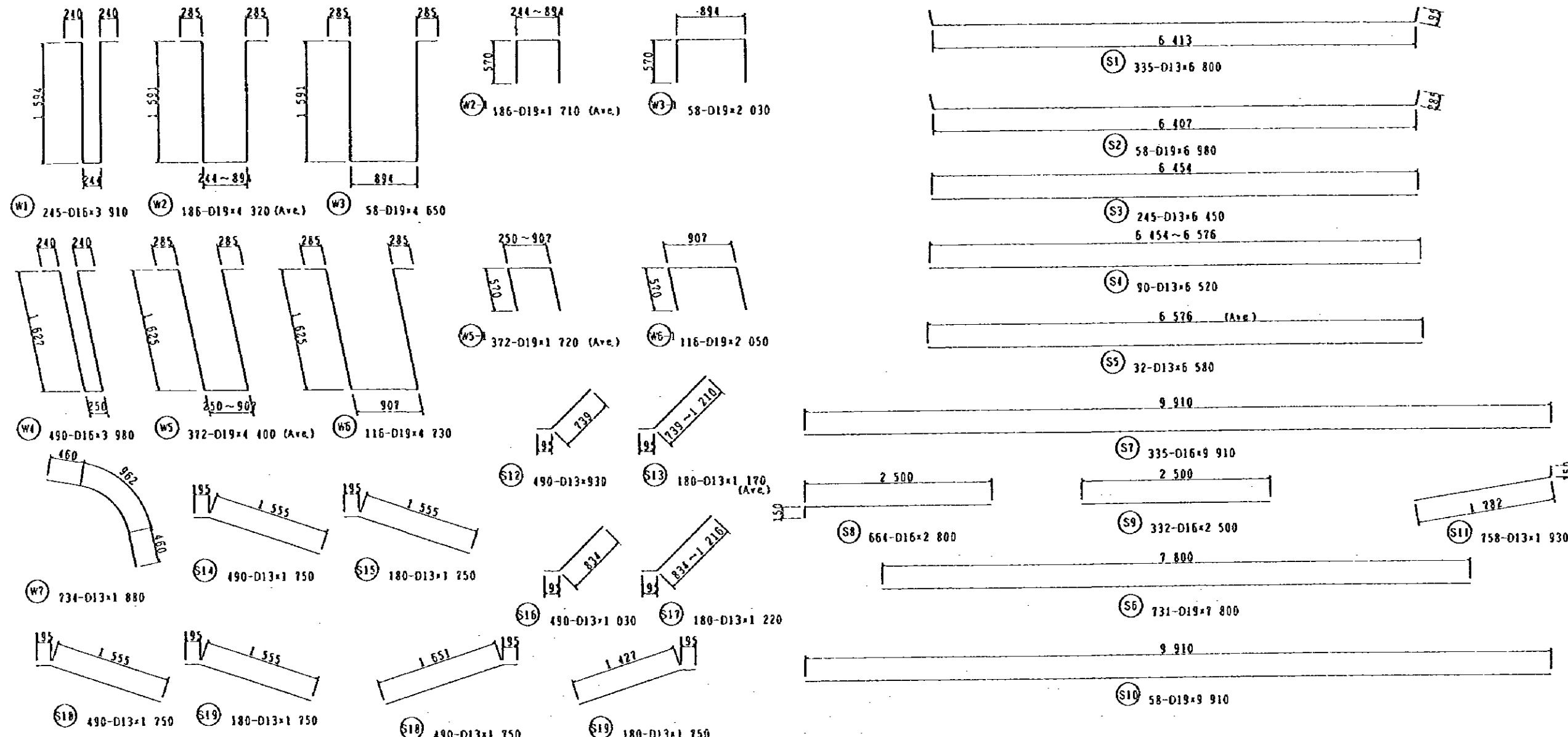
DETAIL OF RECESS FOR ANCHORAGE



SEC. 6-6

B-LINE RE-BAR ARRANGEMENT-(6) s=1/100

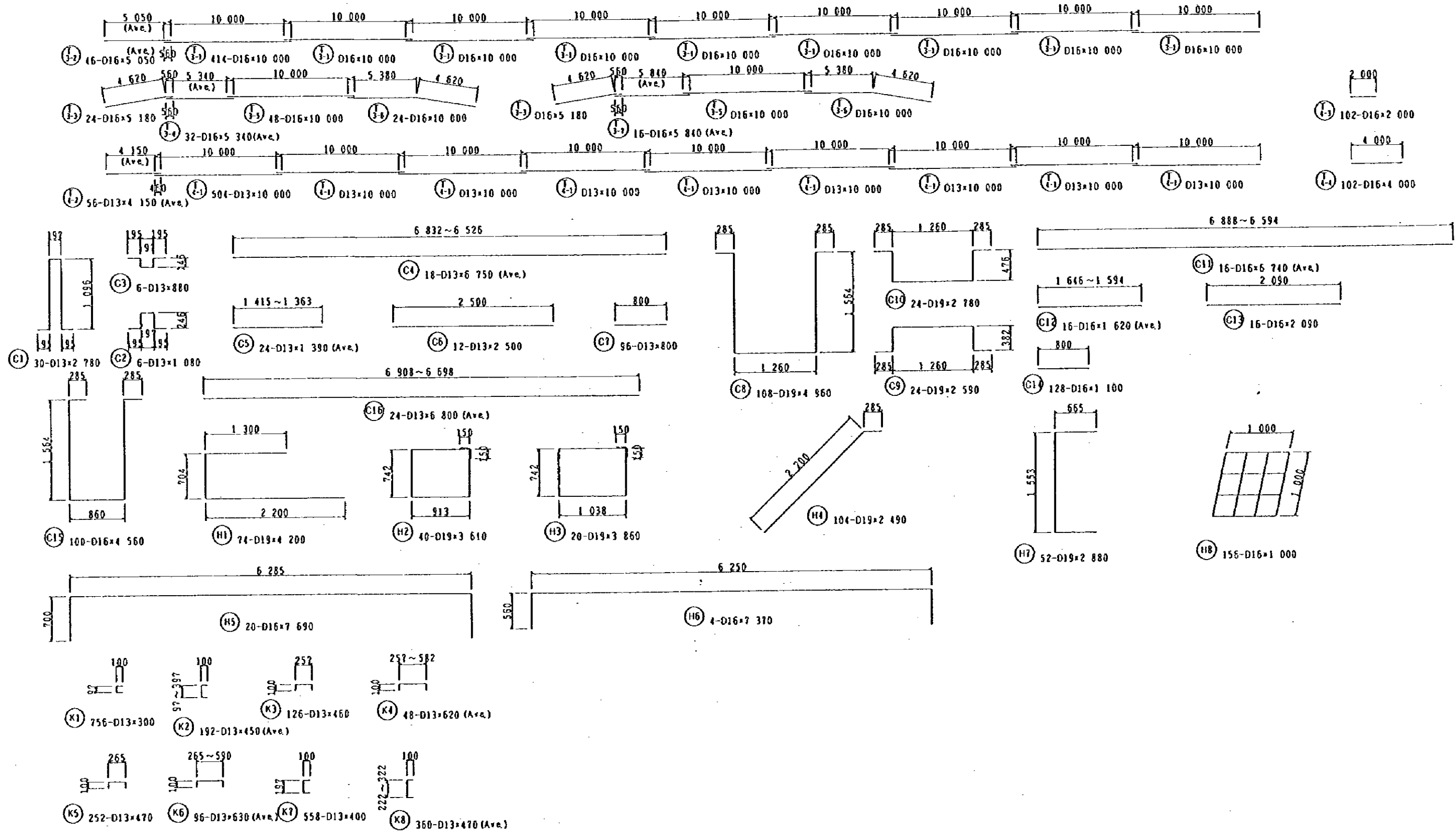
NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE RE-BAR ARRANGEMENT(6/6) AT B-LINE
		DATE _____ DWGNO. B-28



BAR SCHEDULE OF MAIN GIRDER AT B-LINE (1)

4 150 (Ave.)	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	4 000	
(F-2) 28-D13=4 150 (Ave.)	(F-1) 252-D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) 50-D16=4 000	
1 355 4 060 2 085	10 000	5 000 (Ave.)	3 895	4 060	2 000	4 060	980	10 000	5 605 (Ave.)	3 895	4 060	2 000	4 060	980	10 000	8 540 (Ave.)	460 4 060 1 355
(F-3) 28-D13=7 500	(F-1) 84-D13=10 000	(F-5) 28-D13=5 000 (Ave.)	(F-5) 56-D13=8 730	(F-1) 56-D13=6 500	(F-1) D13=10 000	(F-2) 28-D13=5 610 (Ave.)	(F-6) D13=8 730	(F-7) D13=6 500	(F-1) D13=10 000	(F-1) 28-D13=8 540 (Ave.)	(F-1) 28-D13=5 880						
9 660 (Ave.)	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	4 000	
(F-2) 6-D13=9 660 (Ave.)	(F-1) 48-D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) 36-D16=4 000	
1 355 4 060 2 085	10 000	5 000 (Ave.)	3 895	4 060	2 000	4 060	980	10 000	5 605 (Ave.)	3 895	4 060	2 000	4 060	980	10 000	8 540 (Ave.)	460 4 060 1 355
(F-3) 12-D13=7 500	(F-1) 36-D13=10 000	(F-5) 12-D13=5 000 (Ave.)	(F-6) 24-D13=8 730	(F-1) 24-D13=6 500	(F-1) D13=10 000	(F-2) 12-D13=5 610 (Ave.)	(F-6) D13=8 730	(F-7) D13=6 500	(F-1) D13=10 000	(F-1) 12-D13=8 540 (Ave.)	(F-1) 12-D13=5 880						
4 150 (Ave.)	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000	4 000	
(F-12) 6-D13=4 150 (Ave.)	(F-1) 54-D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	(F-1) D13=10 000	

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	PACIFIC CONSULTANTS INTERNATIONAL YUKUYAMA CONSULTANTS INTERNATIONAL	TITLE: BAR SCHEDULE OF MAIN GIRDER AT B-LINE (1) DATE: _____ DWGNO: B-29

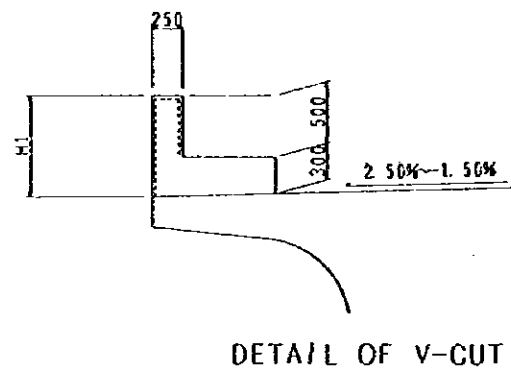
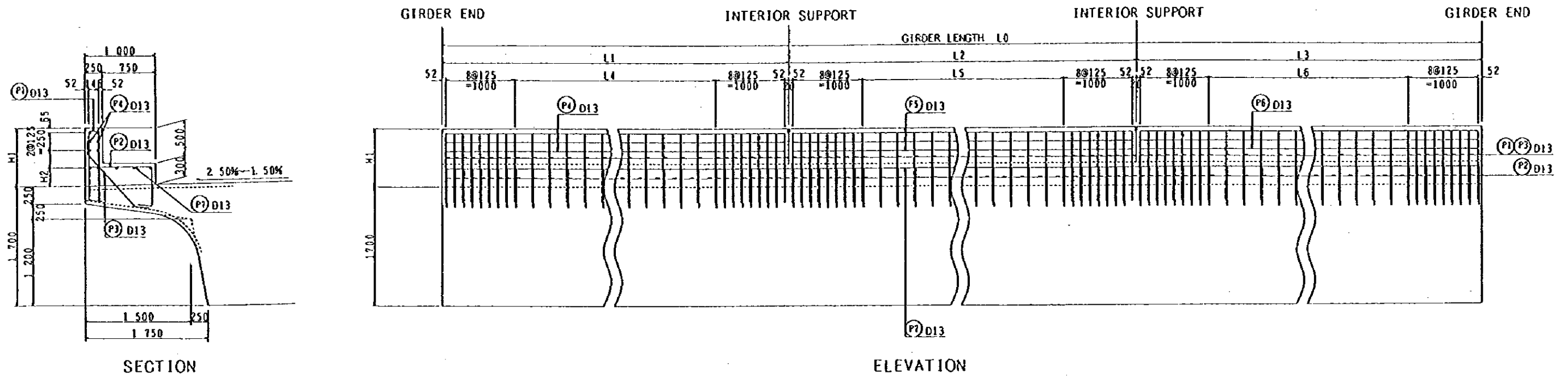


BAR SCHEDULE OF MAIN GIRDER AT B-LINE (2)

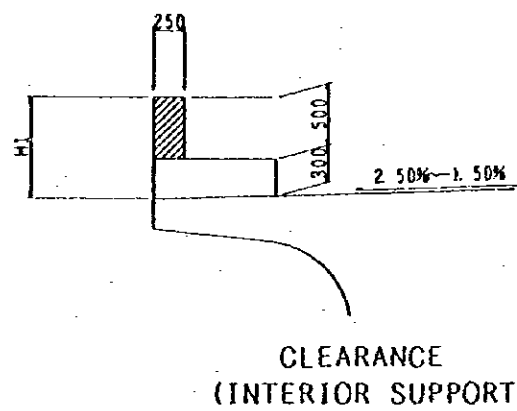
NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

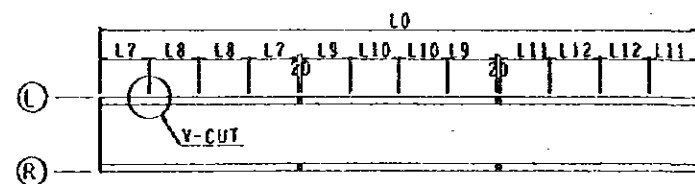
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: BAR SCHEDULE OF MAIN GIRDER AT B-LINE (2)
DATE: _____ DWGNO.: B-30



DETAIL OF V-CUT



CLEARANCE (INTERIOR SUPPORT)



	(A1)~(P3)	(P3)~(P6)	(P6)~(P9)	(P9)~(A2)	REMARKS
L0	89 600	89 600	89 600	89 692	LEVEL
L1	29 835	29 835	29 835	29 864	"
L2	29 930	29 930	29 930	29 964	"
L3	29 835	29 835	29 835	29 864	"
L4	113@245.3-27 721	113@245.3-27 721	113@245.3-27 721	112@247.8-27 750	"
L5	113@246.1-27 806	113@246.1-27 806	113@246.1-27 806	112@248.6-27 840	"
L6	113@245.3-27 721	113@245.3-27 721	113@245.3-27 721	112@247.8-27 750	"
L7	? 4125	? 4125	? 4125	? 427	"
L8	? 500	? 500	? 500	? 500	"
L9	? 455	? 455	? 455	? 472	"
L10	? 500	? 500	? 500	? 500	"
L11	? 4125	? 4125	? 4125	? 427	"
L12	? 500	? 500	? 500	? 500	"
H1	775	775	775	815	
H2	210	210	210	250	
L0	90 600	90 600	90 600	90 234	LEVEL
L1	30 165	30 165	30 165	30 044	"
L2	30 270	30 270	30 270	30 146	"
L3	30 165	30 165	30 165	30 044	"
L4	113@248.2-28 051	113@248.2-28 051	113@248.2-28 051	112@249.4-27 930	"
L5	113@249.1-28 146	113@249.1-28 146	113@249.1-28 146	112@250.2-28 022	"
L6	113@248.2-28 051	113@248.2-28 051	113@248.2-28 051	112@249.4-27 930	"
L7	? 572.5	? 572.5	? 572.5	? 517	"
L8	? 500	? 500	? 500	? 500	"
L9	? 625	? 625	? 625	? 563	"
L10	? 500	? 500	? 500	? 500	"
L11	? 572.5	? 572.5	? 572.5	? 517	"
L12	? 500	? 500	? 500	? 500	"
H1	825	825	825	785	
H2	260	260	260	220	

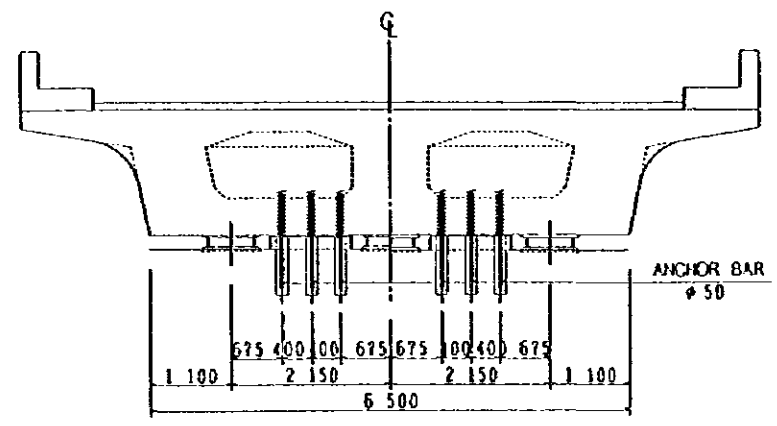
DIMENSION LIST

RAILING AND CANTILEVER SLAB AT B-LINE

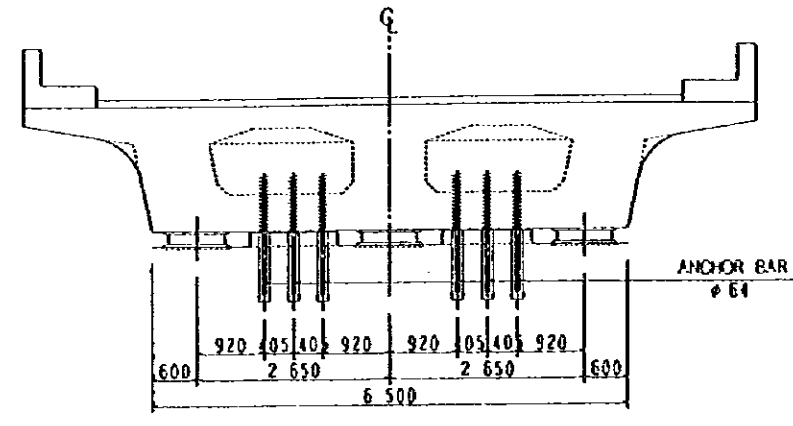
NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

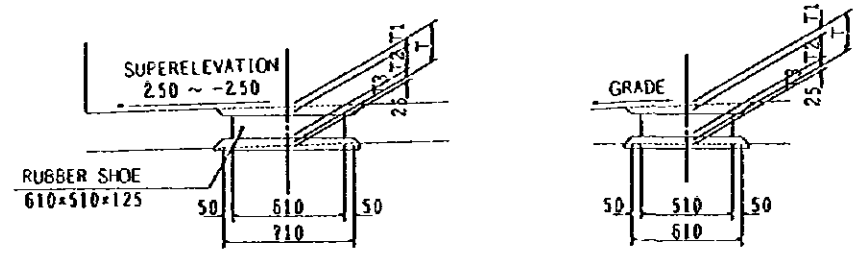
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: RAILING AND CANTILEVER SLAB AT B-LINE
DATE: _____ DWGNO. B-31



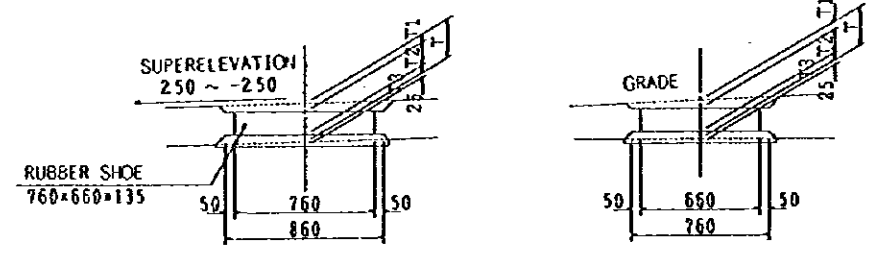
FOR MOV.



FOR FIX.

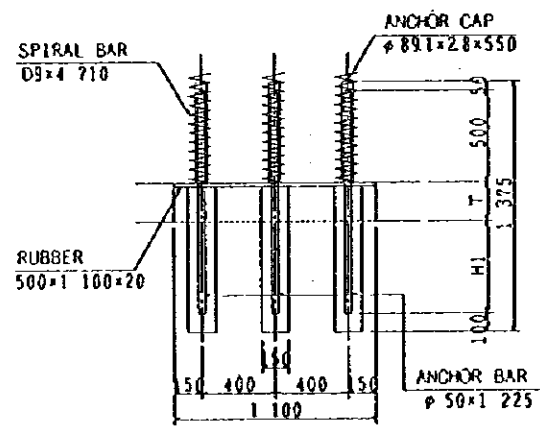


FOR MOV.

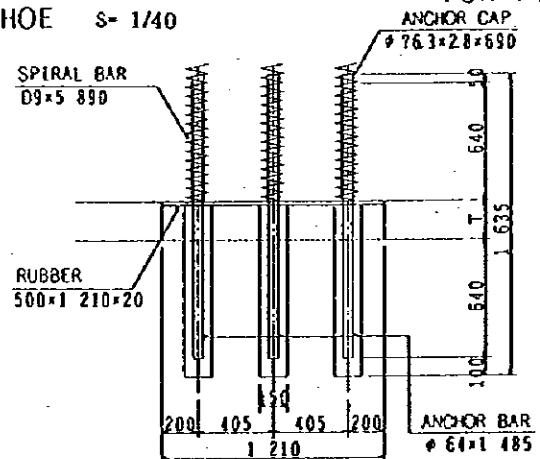


FOR FIX.

DETAIL OF SHOE S= 1/40

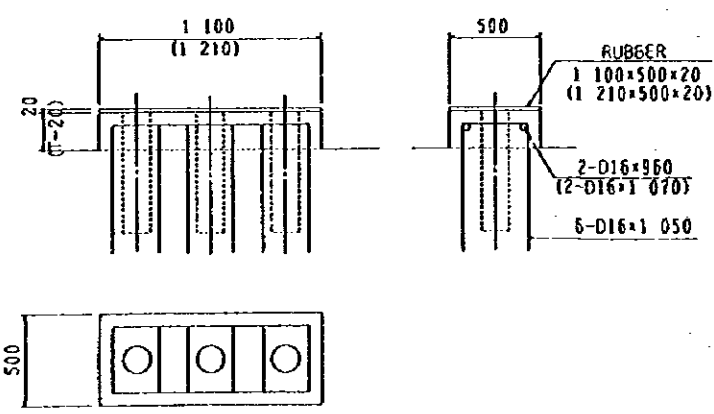


FOR MOV.

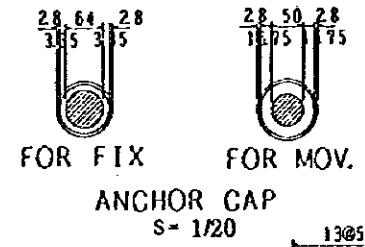


FOR FIX.

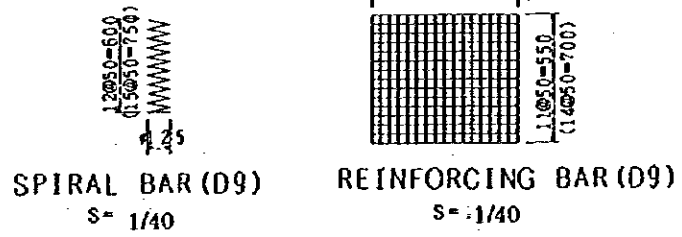
DETAIL OF ANCHOR BAR S= 1/40



DETAIL OF ANCHOR BASE S= 1/40



ANCHOR CAP S= 1/20



SPIRAL BAR (D9) S= 1/40
REINFORCING BAR (D9) S= 1/40

DETAIL OF SHOE AND ANCHOR BAR AT B-LINE

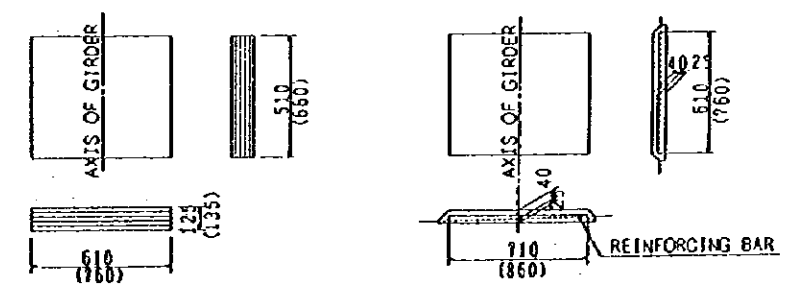
		T1	T2	T3	T	H1	REMARKS
(A2)	Al	25	125	40	190	535	Mov.
	P1	30	135	40	205	---	Fix.
	P2	30	135	40	205	---	Fix.
(F3)	P3-1	31	125	40	196	529	Mov.
	P3-2	59	125	40	224	501	Mov.
	P4	30	135	40	205	---	Fix.
(F6)	P5	30	135	40	205	---	Fix.
	P6-1	45	125	40	210	515	Mov.
	P6-2	45	125	40	210	515	Mov.
(F9)	P7	30	135	40	205	---	Fix.
	P8	30	135	40	205	---	Fix.
	P9-1	60	125	40	225	500	Mov.
(F9)	P9-2	30	125	40	195	530	Mov.
	P10	30	135	40	205	---	Fix.
	P11	30	135	40	205	---	Fix.
(A2)	A2	25	125	40	190	535	Mov.

DIMENSION LIST

(PER GIRDER)

	DESCRIPTION	UNIT	QUANTITY	REMARKS
FIX.	ANCHOR BAR (GALV.)	kg	450.8	w=31.57 kg/pc.
	ANCHOR CAP (GALV.)	kg	42.2	w=35.2 kg/pc.
	FILLER	kg	11.7	w=0.975 kg/anc.
	SYNTHETIC RUBBER SHOE	Pcs	6	660x760x135
	REINFORCING BAR	kg	80.3	w=13.38kg/Set
	SPIRAL BAR	kg	39.6	w=3.30 kg/pc.
	NON SHRINKAGE MORTAR	m ³	0.292	0.0486m ³ /Shoe
	"	m ³	0.164	0.0137m ³ /Hole
	ANCHOR BASE CON	m ³	0.448	0.112 m ³ /Base
	REINFORCING BAR	kg	52.4	w=13.10 kg/Base
	RUBBER	Pcs	4	1 210x500x20
MOV.	ANCHOR BAR (GALV.)	kg	226.4	w=18.87 kg/pc.
	ANCHOR CAP (GALV.)	kg	39.6	w=3.30 kg/pc.
	FILLER	kg	36.5	w=3.045kg/anc.
	SYNTHETIC RUBBER SHOE	Pcs	6	510x610x125
	REINFORCING BAR	kg	52.8	w=8.79kg/Set
	SPIRAL BAR	kg	31.7	w=2.64 kg/pc.
	NON SHRINKAGE MORTAR	m ³	0.199	0.0332m ³ /Shoe
	"	m ³	0.154	0.0128m ³ /Hole
ANCHOR BASE CON	m ³	0.452	0.113 m ³ /Base	
REINFORCING BAR	kg	51.0	w=12.76kg/Base	
RUBBER	Pcs	4	1 100x500x20	

MATERIAL LIST

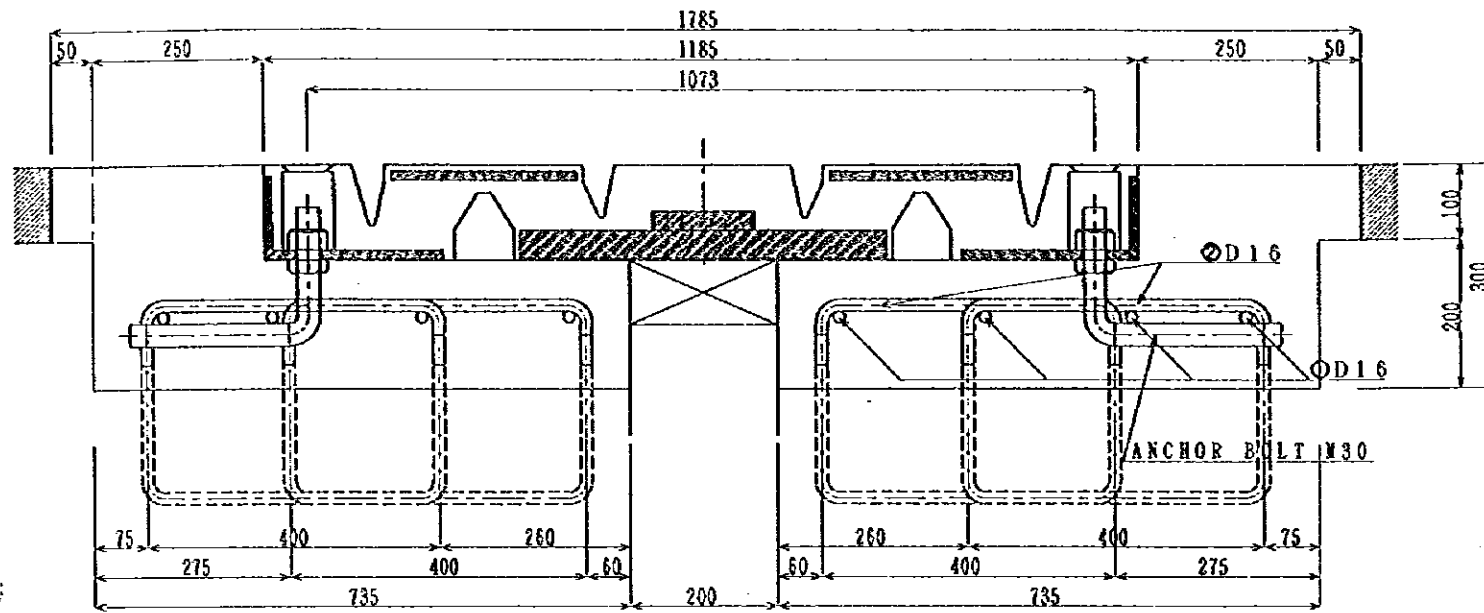


SYNTHETIC RUBBER SHOE S= 1/40
SHOE BASE S= 1/40

NOTE: () IS FOR FIX.

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	TITLE: DETAIL OF SHOE AND ANCHOR BAR AT B-LINE	DATE
	DWGNO. B-32	

AQR FOR PIER

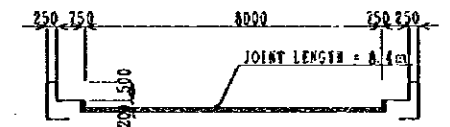


MATERIAL LIST (PER 10 m)

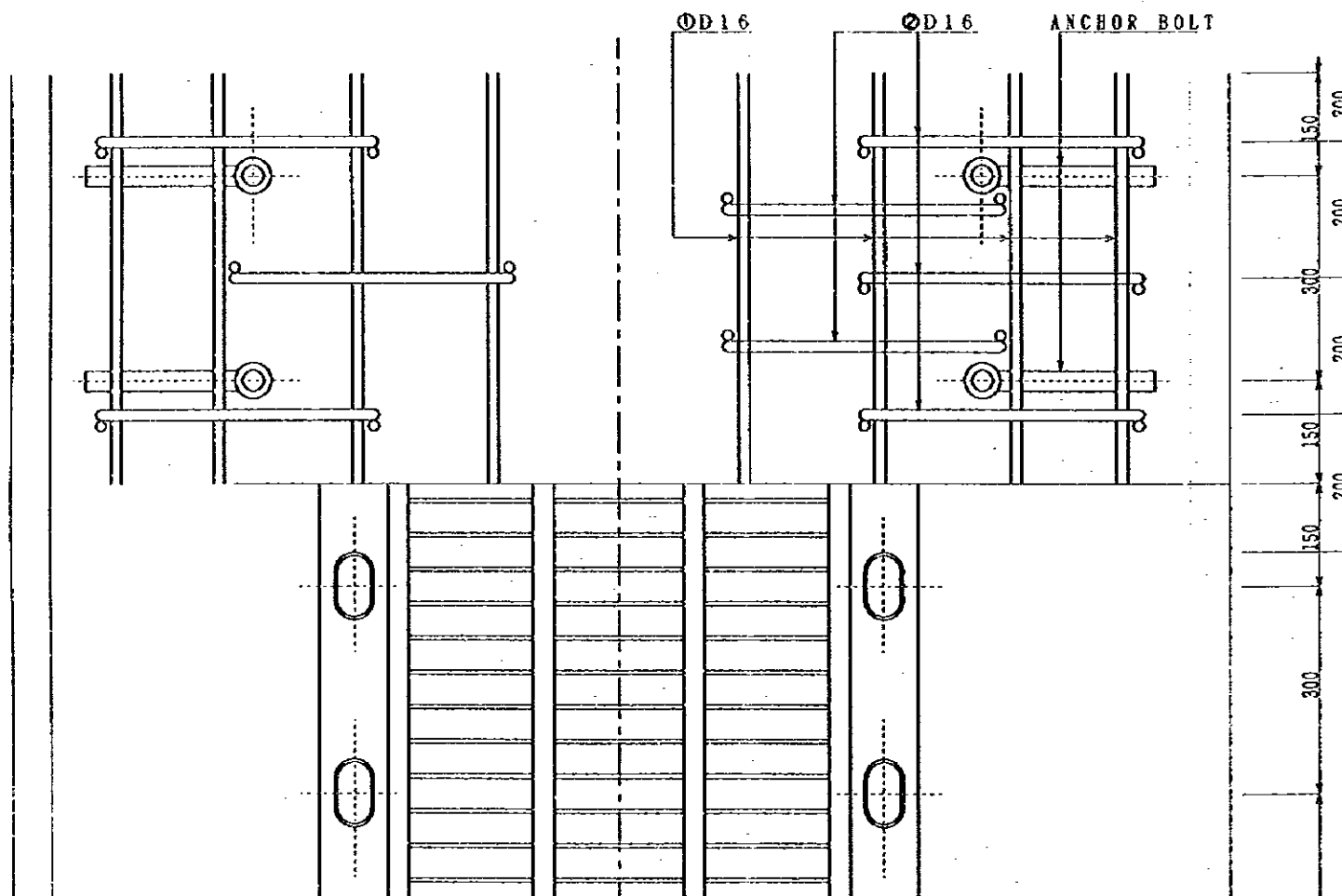
MATERIAL	CLASSIFICATION	UNIT	PIER
TRANSFLEX JOINT	INCLUDING ANCHORBOLT	m	10.0
SEALANT	FOR JOINT SEALS	kg	60.0
	FOR PLUG HOLE	kg	32.0
REINFORCING BAR	ØD16	kg	124.8
	ØD16	kg	174.7
RECESS CONCRETE	HIGH-EARLY STRENGTH CONCRETE	m ³	3.263
COLORING AGENT OF THE FACE	3 kg/m ²	kg	18.0
POLYURETHANE FORM		m	10.0
TRANSIENT FILLING MATERIAL	SAND	m ³	3.63
	ASPHALT CONCRETE	m ³	1.43

QUANTITY LIST

	PIER
AQR	6
TOTAL LENGTH	50.4



JOINT LENGTH PER 1 PLACE



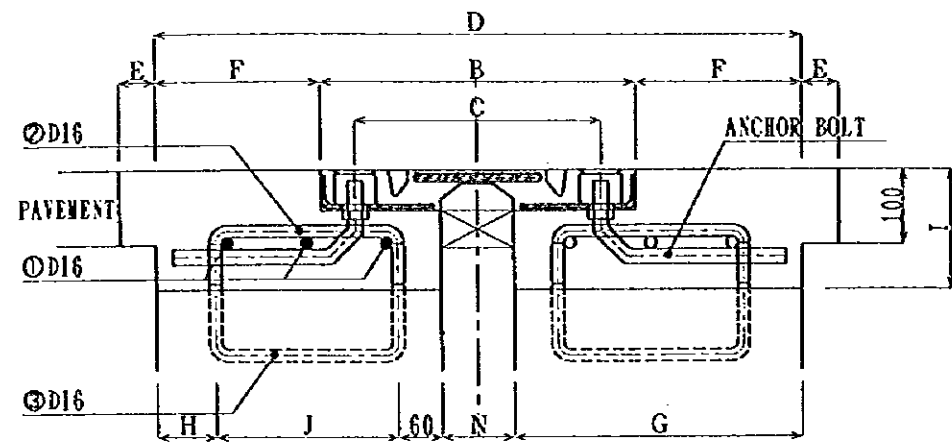
TRANSFLEX JOINT ON PIERS S- 1/10

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
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JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: EXPANSION JOINT (2)
DATE: _____ DWGNO. B-33

AQR FOR ABUTMENT

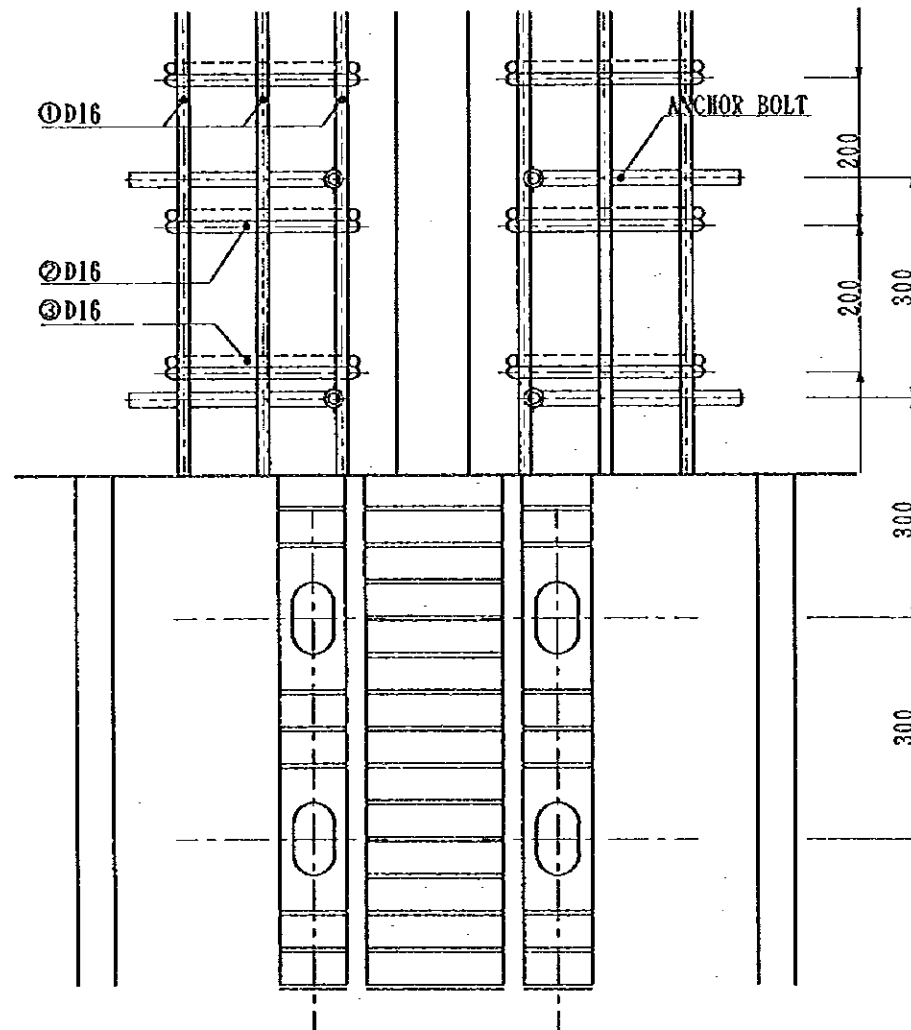


MEASURE DATA

	A	B	C	D	E	F	G	H	I	J	STANDARD SPACE BETWEEN SLABS N	TRAVEL
ABUT	54	433	340	879	50	223	390	80	160	250	100	80

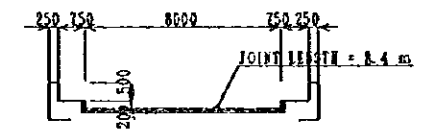
MATERIAL LIST (PER 10 m)

MATERIAL	CLASSIFICATION	UNIT	ABUT
TRANSFLEX JOINT	INCLUDING ANCHORBOLT	m	10.0
SEALANT	FOR JOINT SEALS	kg	16.0
	FOR PLUG HOLE	kg	4.0
REINFORCING BAR	ØD16	kg	93.60
	ØD16	kg	53.04
RECESS CONCRETE	HIGH-EARLY STRENGTH CONCRETE	m ³	0.964
COLORING AGENT OF THE FACE	3 kg/m ²	kg	15.0
POLYURETHANE FORM		m	10.0
TRANSIENT FILLING MATERIAL	SAND	m ³	0.53
	ASPHALT CONCRETE	m ³	0.60



QUANTITY LIST

	ABUTMENT
AQR	4
TOTAL LENGTH	33.6



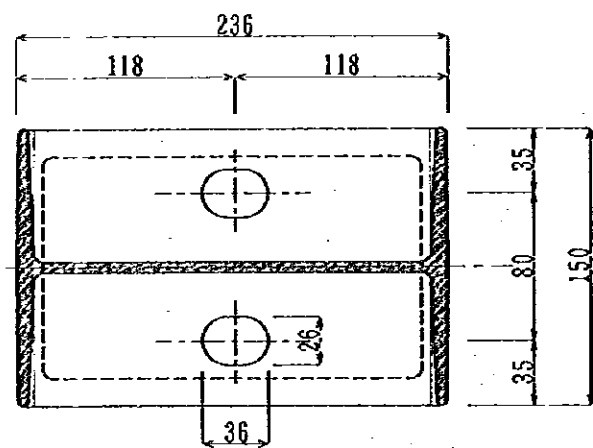
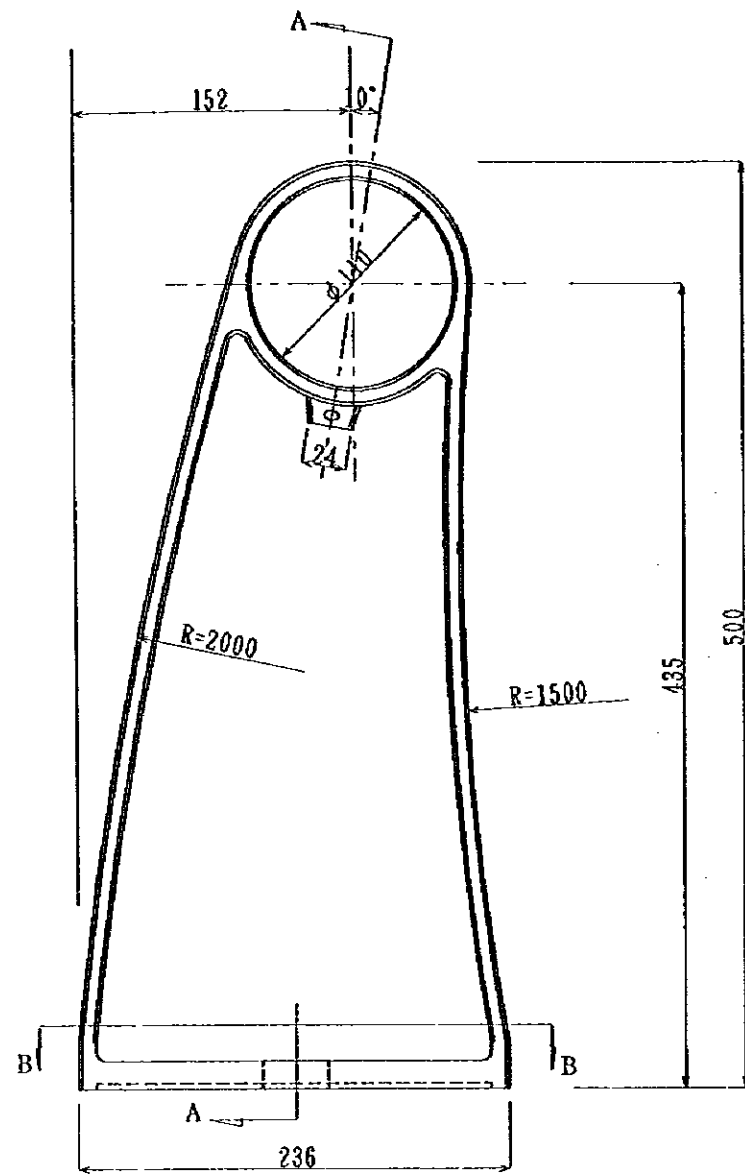
JOINT LENGTH PER 1 PLACE

TRANSFLEX JOINT ON ABUTMENTS S= 1/10

NOTES:

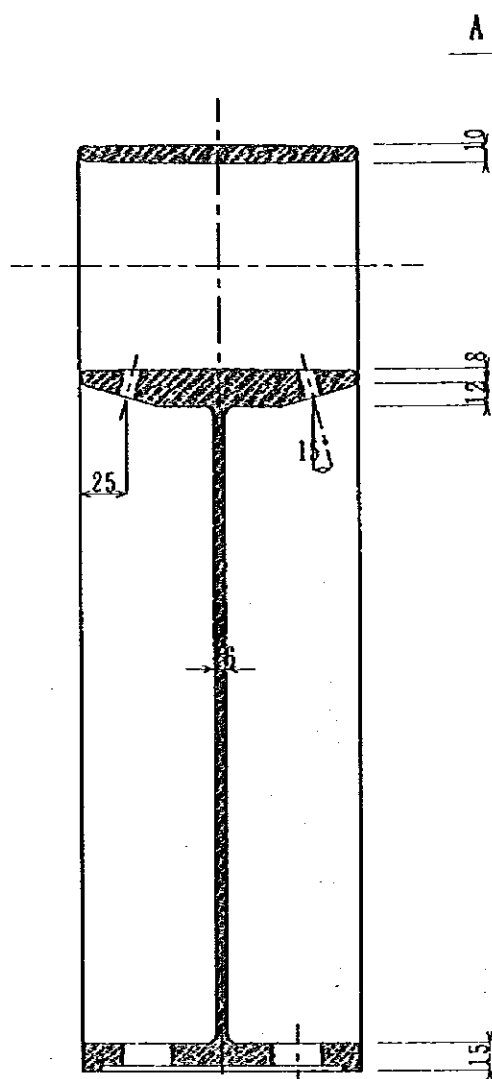
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT:	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE	EXPANSION JOINT (j)
DATE	DWGNO. B-34

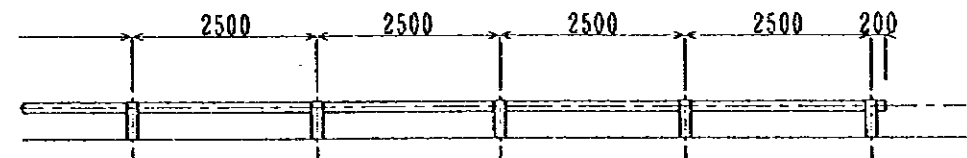


B-B SECTION

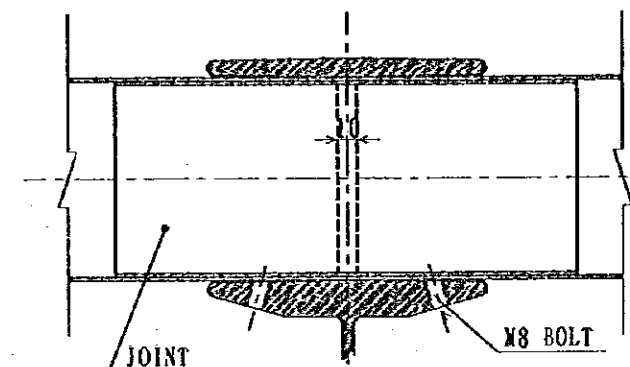
POST SCALE



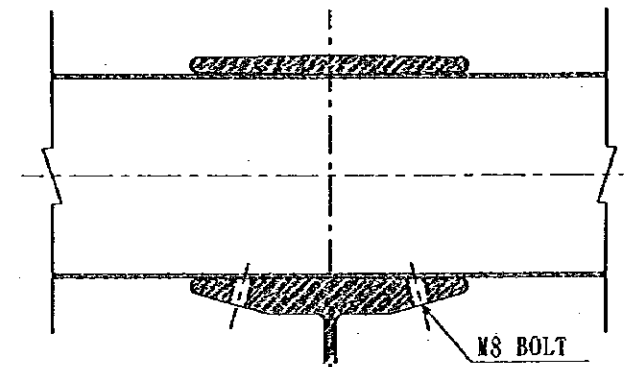
A-A SECTION



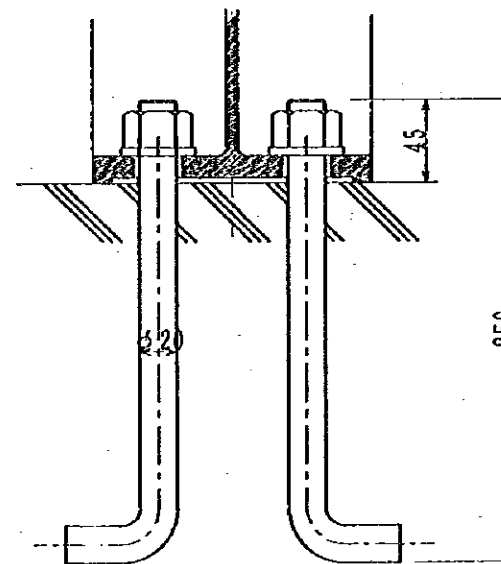
POST ARRANGEMENT



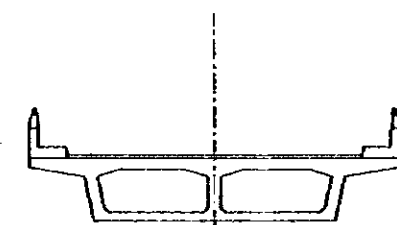
RAIL JOINT SECTION



RAIL PENETRATING SECTION



ANCHOR BOLT



HANDRAIL LOCATION

H A N D R A I L S=1:4

ALMINIUM PRODUCTS

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

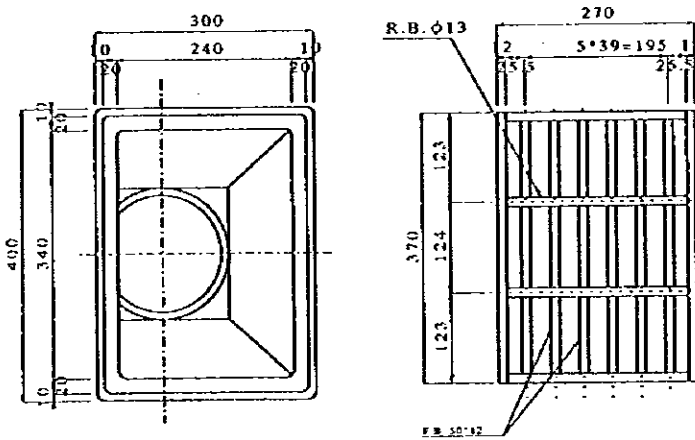
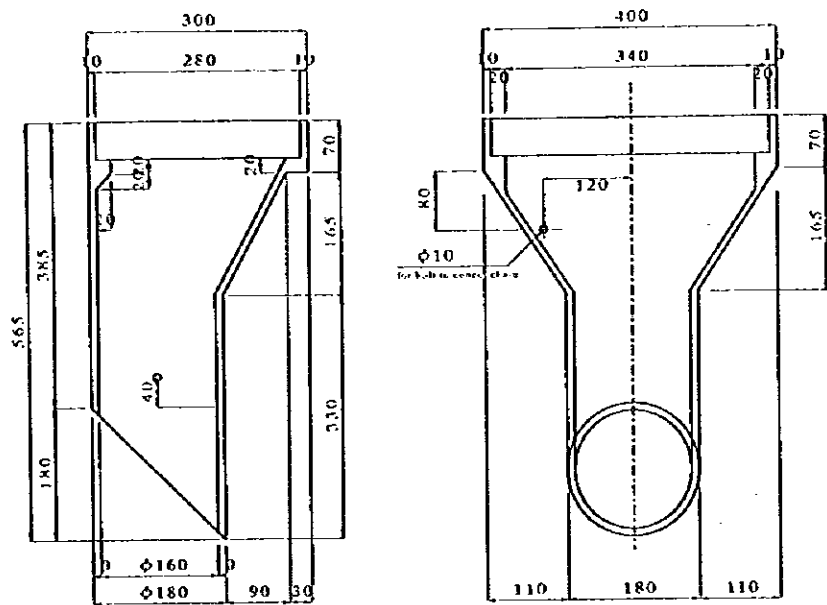
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE HANDRAIL

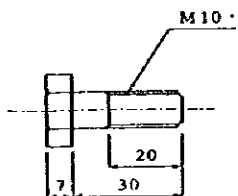
DATE DWGNO. B-35

BRIDGE DRAINAGE DETAILS (AQR FLYOVER)

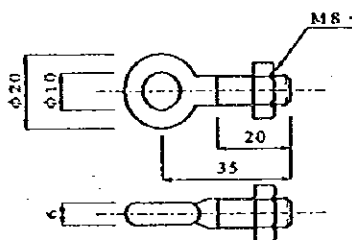
CATCH BASIN (S=1:5)



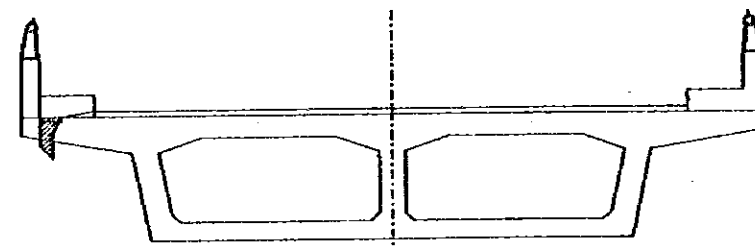
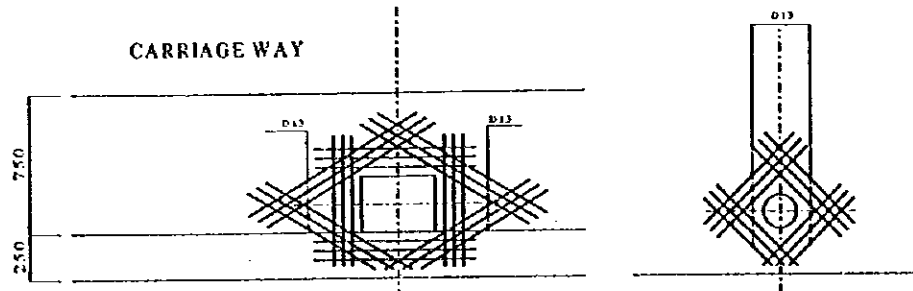
BISS (S=1:1)



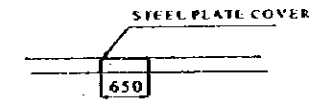
BOLT TO CONNECT CHAIN (S=1:1)



REINFORCING (S=1:20)

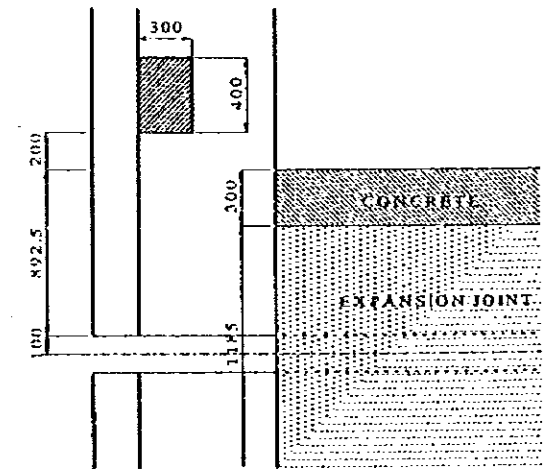


CROSS SECTIONAL LOCATION

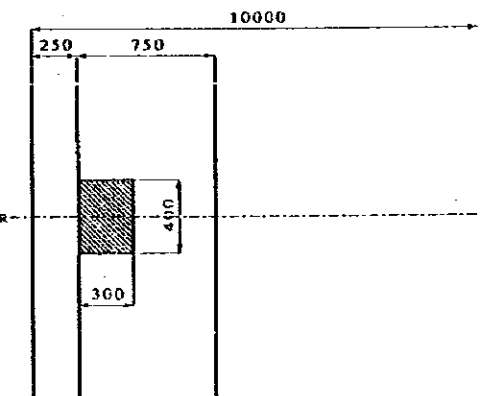


INSTALLING LOCATION DETAIL

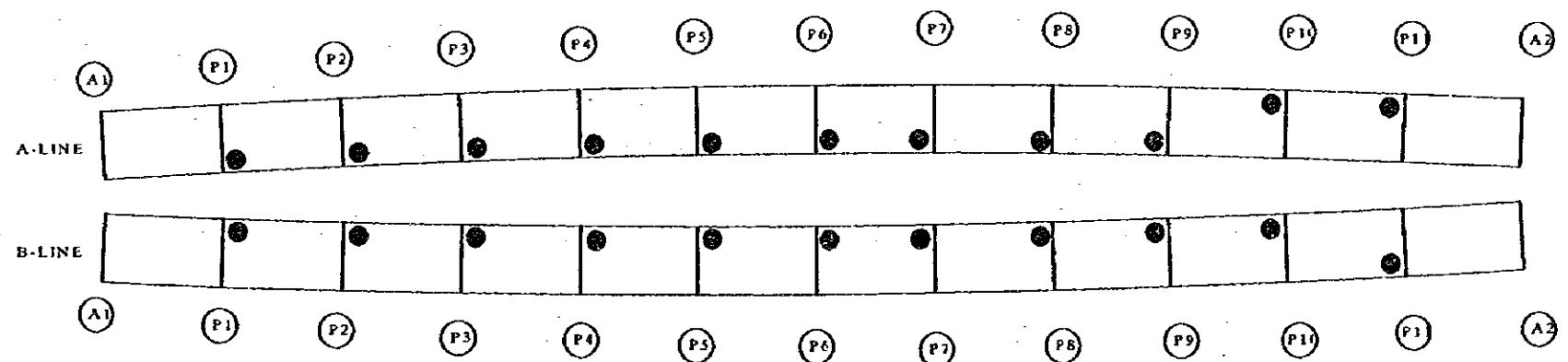
AT PIER NO. P3, P6, P9



AT PIER NO. P1, P2, P4, P5, P7, P8, P10, P11



INSTALLING LOCATIONS

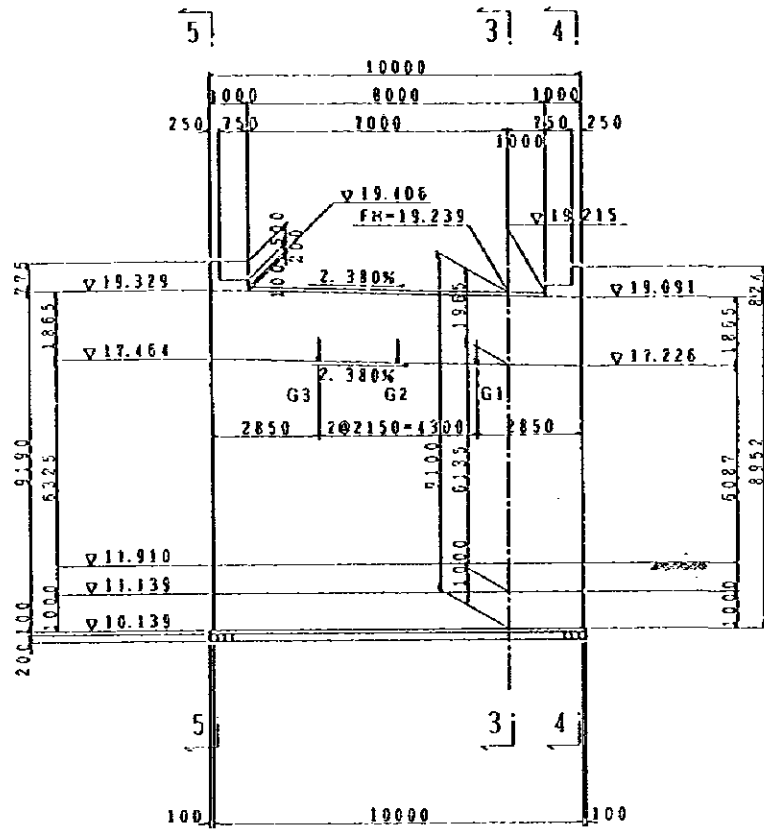


NOTES:

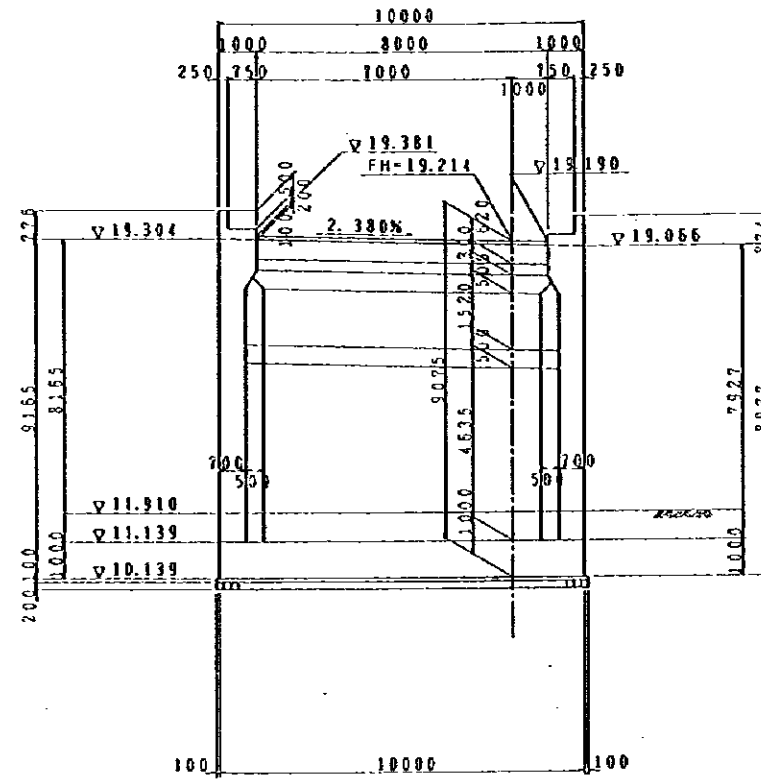
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: BRIDGE DRAINAGE DETAILS (AQR)
DATE: _____ DWG. NO. B-36

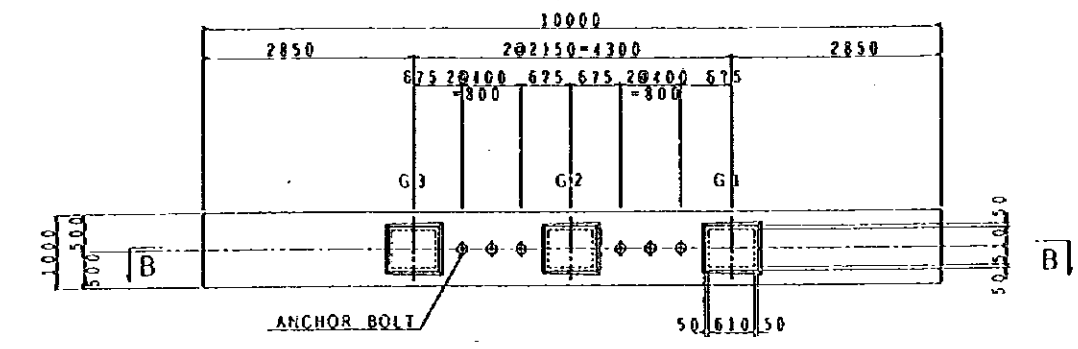
RA/18 AQR



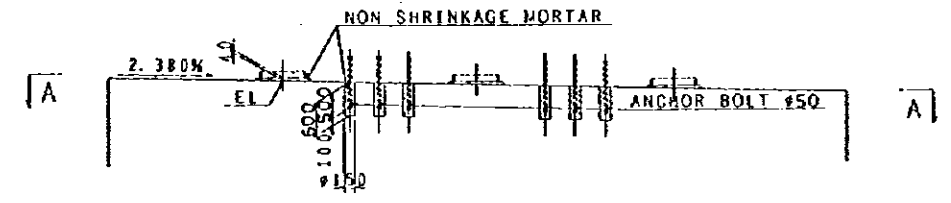
SECTION 1-1 S= 1/200



SECTION 2-2 S= 1/200



SECTION A-A S= 1/100



SECTION B-B S= 1/100

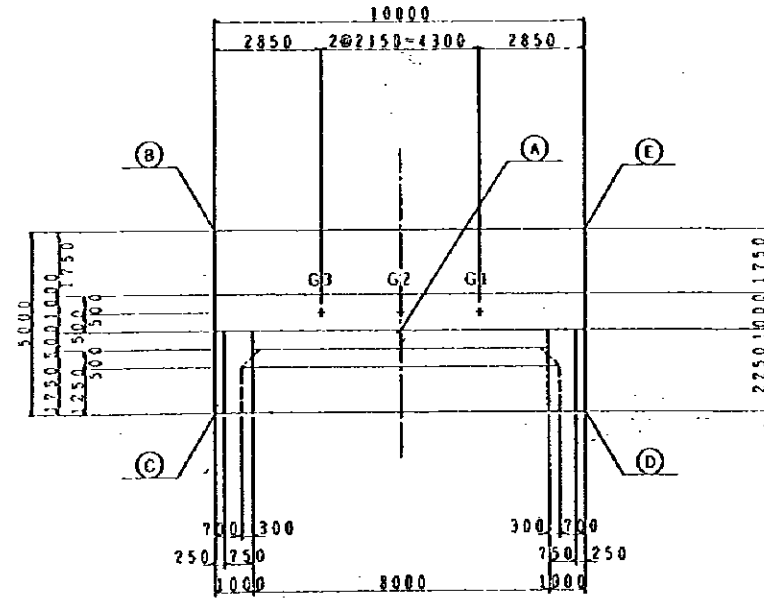
DETAIL OF SHOE BED

SHOE ELEVATION(EL) TABLE

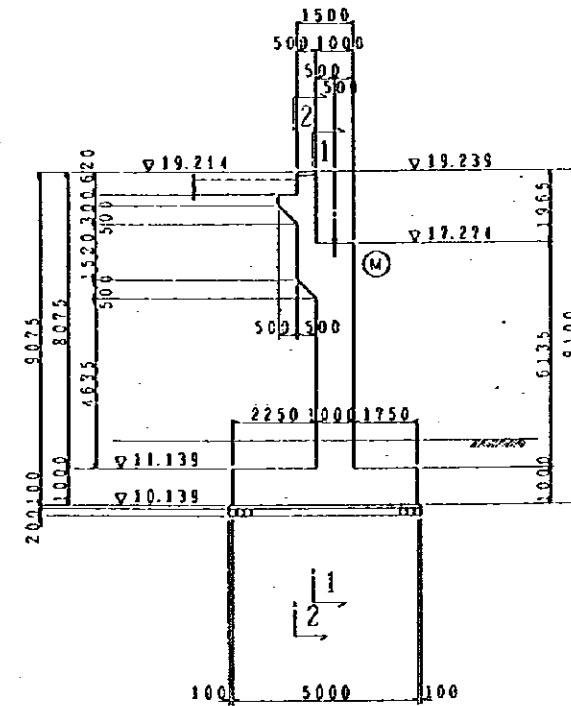
G 1	G 2	G 3
17.294	17.345	17.396

CO-ORDINATES LIST

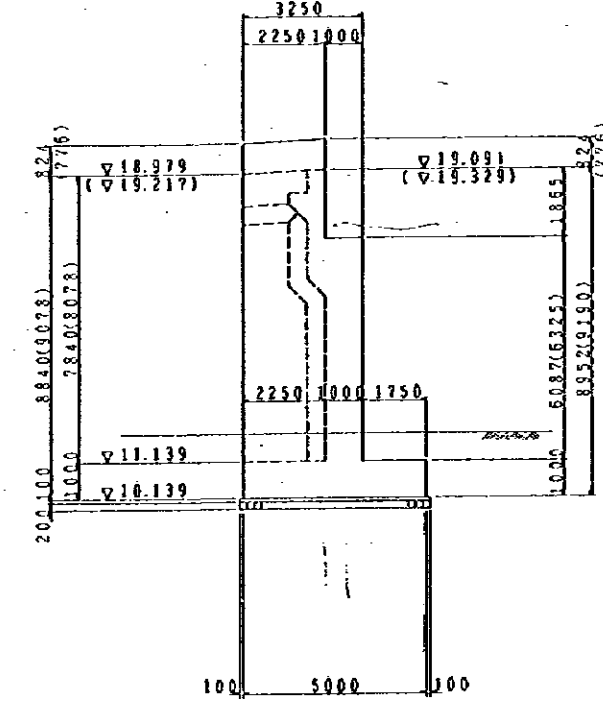
Point	X	Y
A	2742927.4832	443172.8951
B	2742927.2605	443167.2953
C	2742923.8487	443169.8235
D	2742928.2010	443178.4318
E	2742932.4541	443179.8047



P L A N S= 1/200



SECTION 3-3 S= 1/200

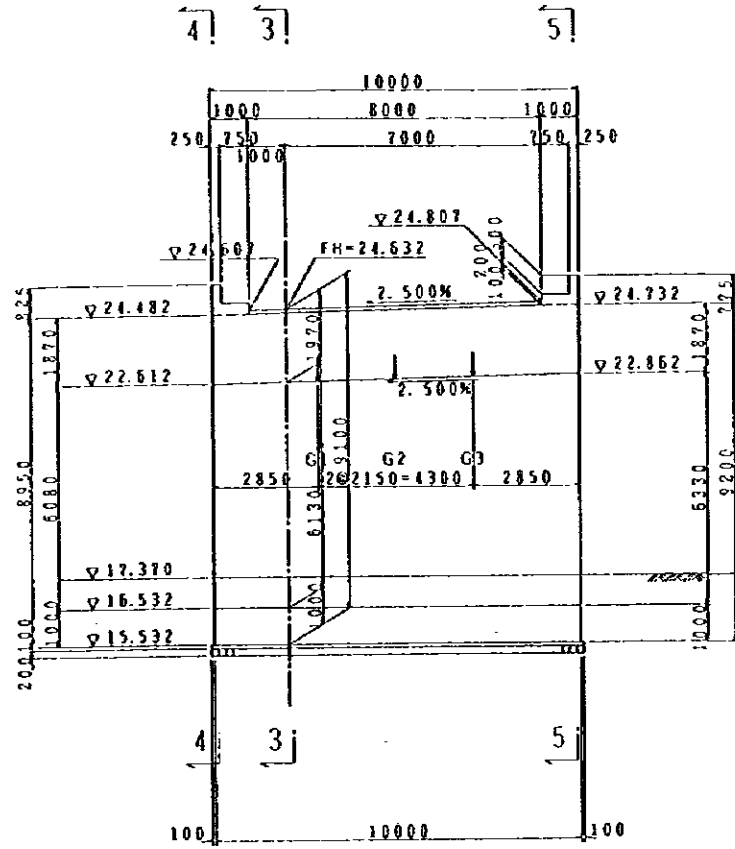


SECTION 4-4 (5-5) S= 1/200

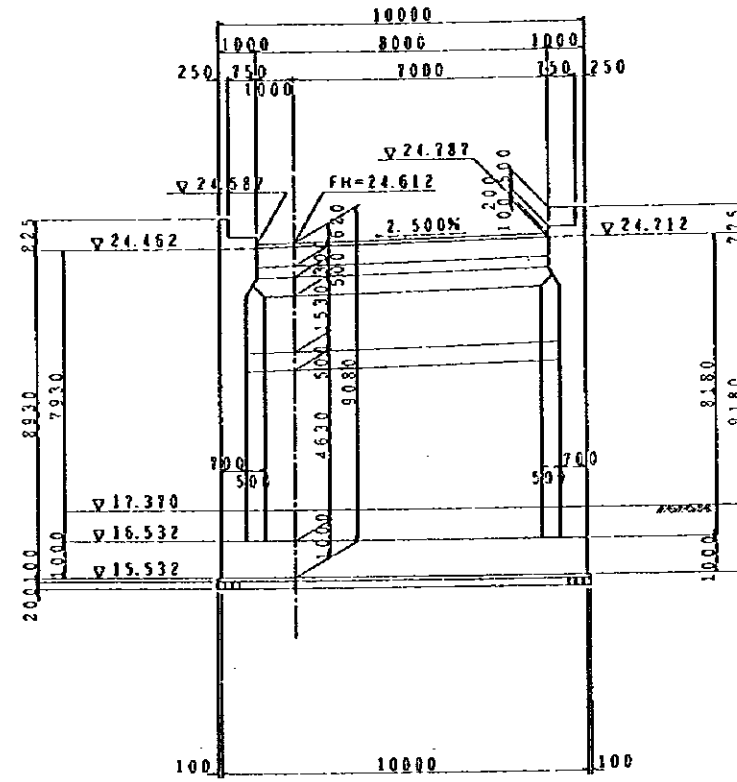
STRUCTURAL DETAIL OF A1 ABUTMENT AT A-LINE

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		TITLE: STRUCTURAL DETAIL OF A1 ABUTMENT AT A-LINE
		DATE: _____ DWGNO. B-37

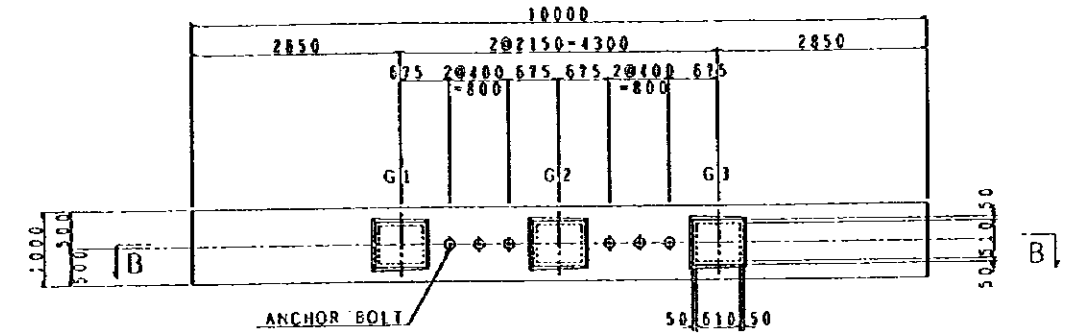
RA/18 AQR



SECTION 1-1 S= 1/200



SECTION 2-2 S= 1/200



SECTION A-A S= 1/100



SECTION B-B S= 1/100

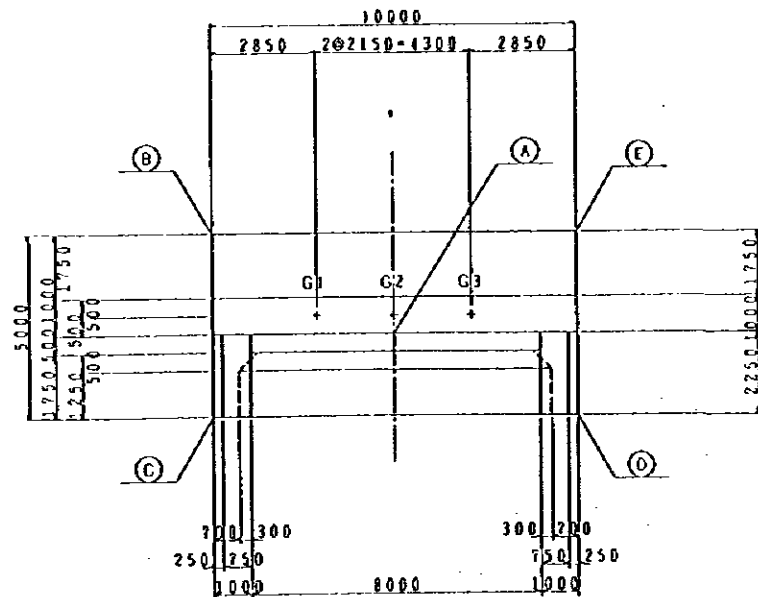
DETAIL OF SHOE BED

SHOE ELEVATION (EL) TABLE

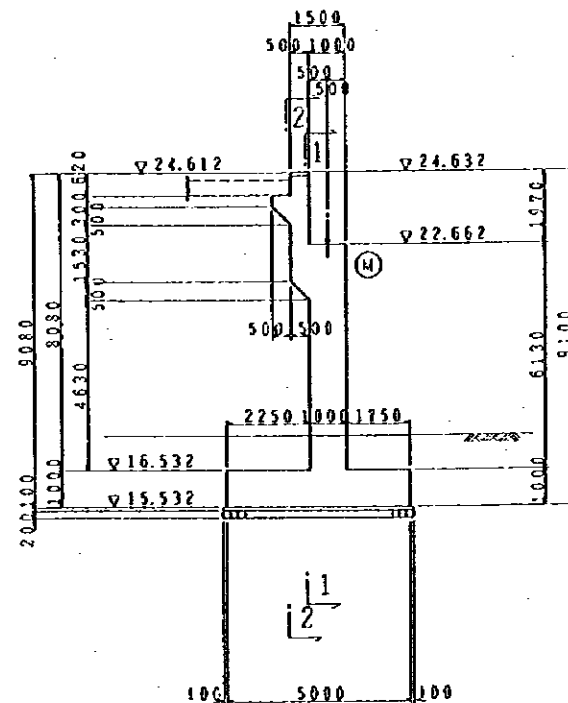
G 1	G 2	G 3
22.683	22.731	22.791

CO-ORDINATES LIST

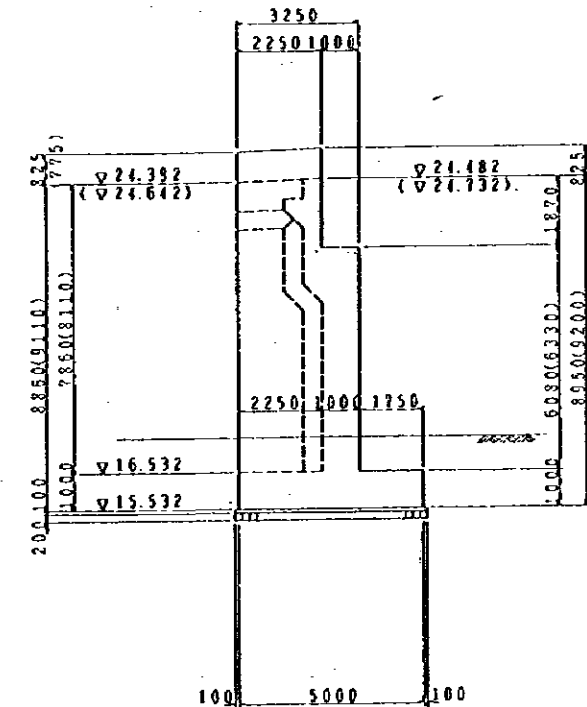
A	X	Y
A	270250	1855
B	44251	8025
C	274255	7215
D	44252	3662
E	274254	4457
F	44257	3516
G	274254	7169
H	44250	1839
I	274256	8225
J	44257	8277



P L A N S= 1/200



SECTION 3-3 S= 1/200



SECTION 4-4 (5-5) S= 1/200

STRUCTURAL DETAIL OF A1 ABUTMENT AT B-LINE

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

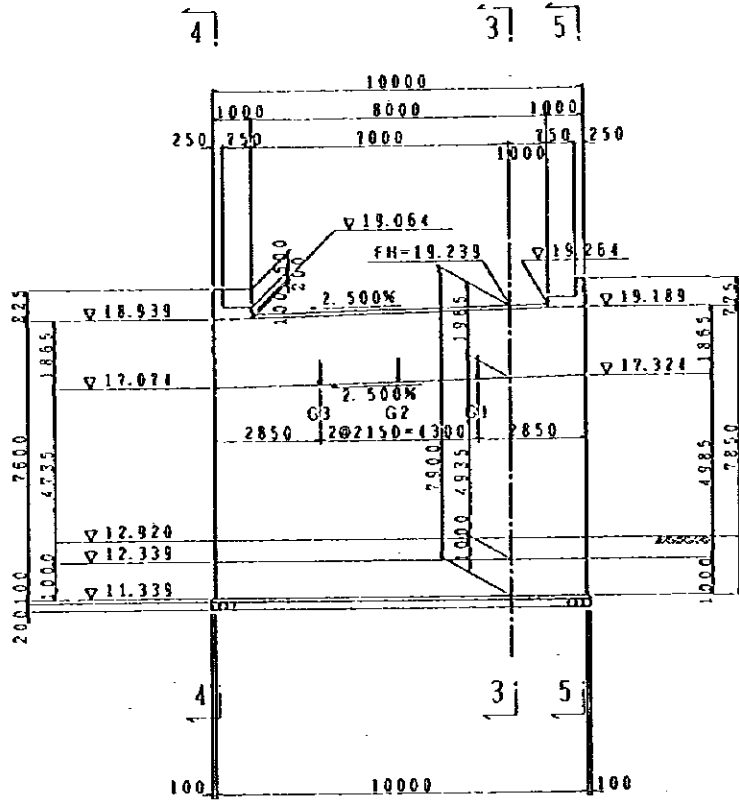
TITLE: STRUCTURAL DETAIL OF A1 ABUTMENT AT B-LINE

DATE:

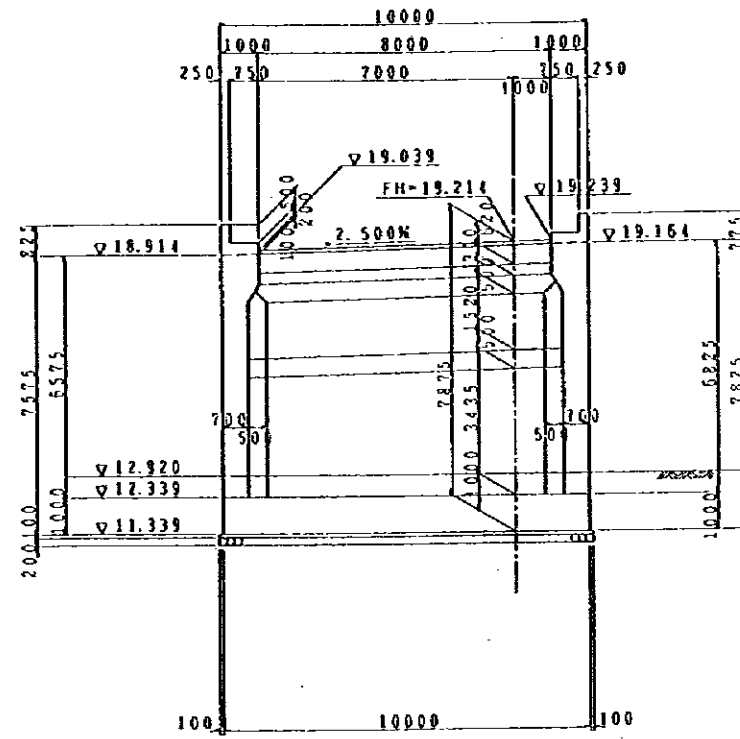
DWGNO.

B-38

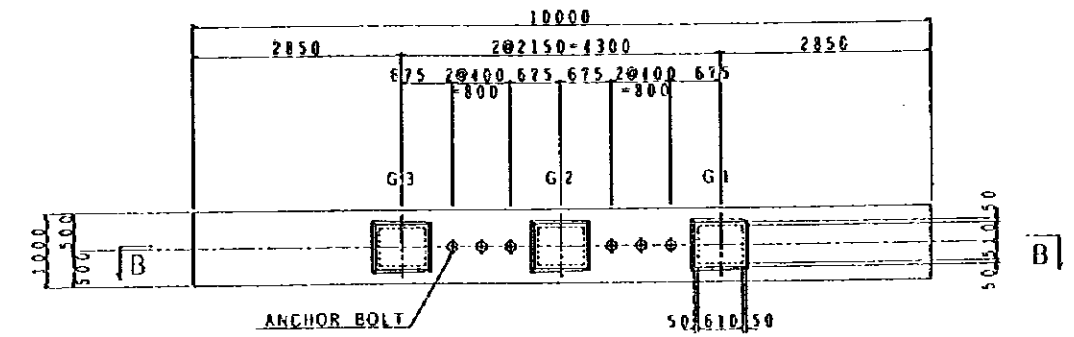
RA/18 AQR



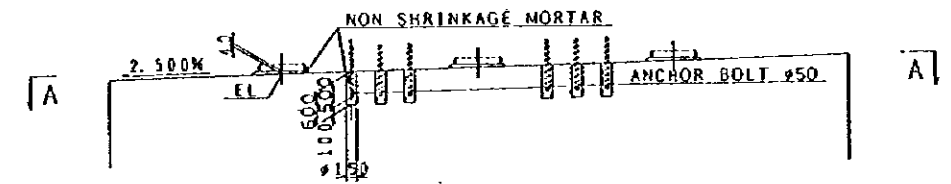
SECTION 1-1 S= 1/200



SECTION 2-2 S= 1/200



SECTION A-A S= 1/100



SECTION B-B S= 1/100

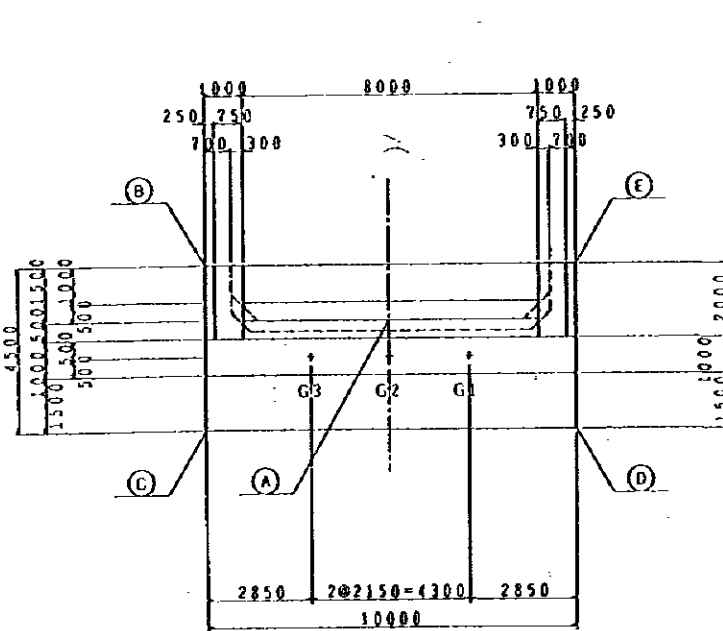
DETAIL OF SHOE BED

SHOE ELEVATION (EL) TABLE

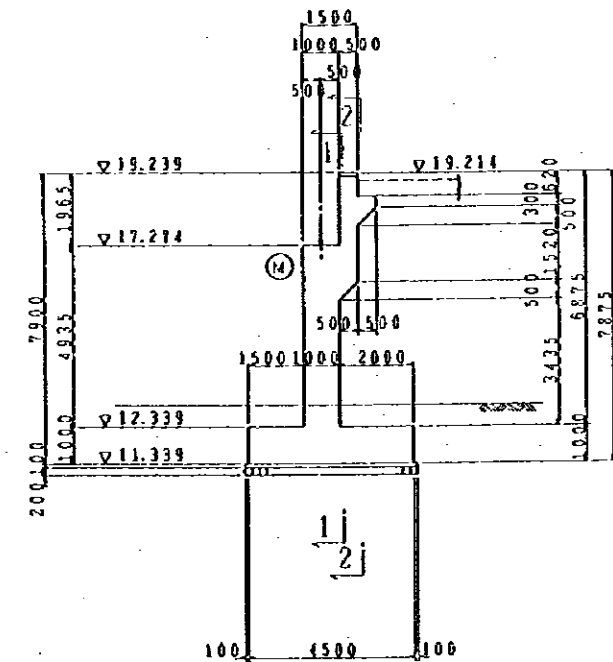
G 1	G 2	G 3
17.253	17.199	17.145

CO-ORDINATES LIST

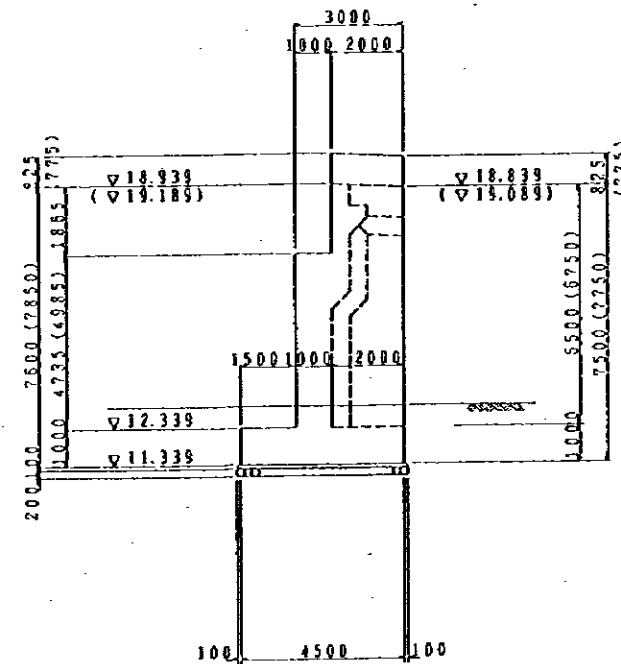
A	X	Y
A	2743261.2657	483911.9263
B	2743261.9001	483939.8364
C	2743257.6651	483937.4911
D	2743260.9539	483946.8711
E	2743265.2075	483915.9855



P L A N S= 1/200



SECTION 3-3 S= 1/200



SECTION 4-4 (5-5) S= 1/200

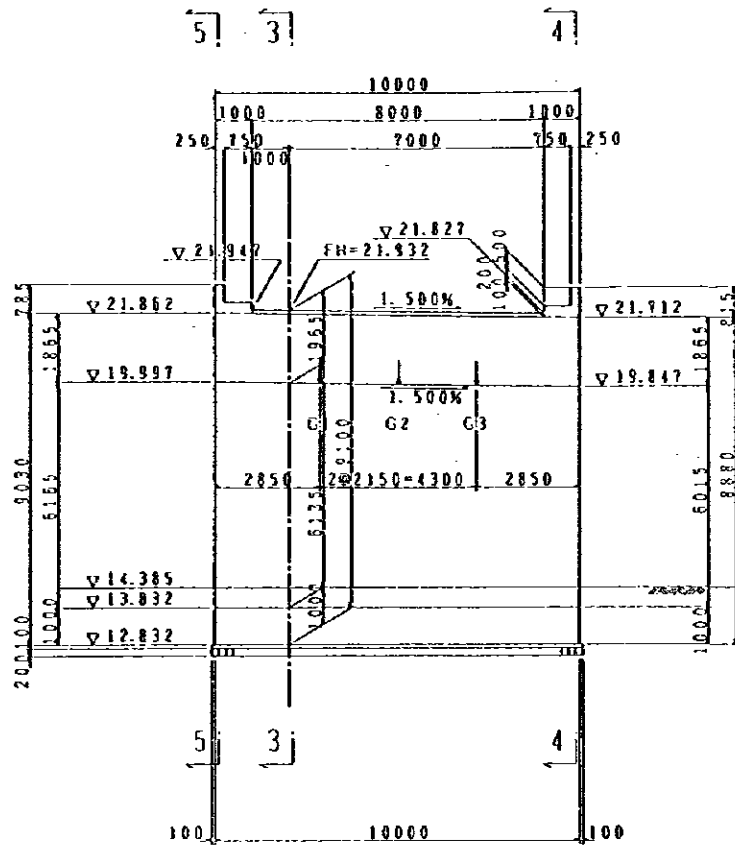
STRUCTURAL DETAIL OF A2 ABUTMENT AT A-LINE

NOTES:

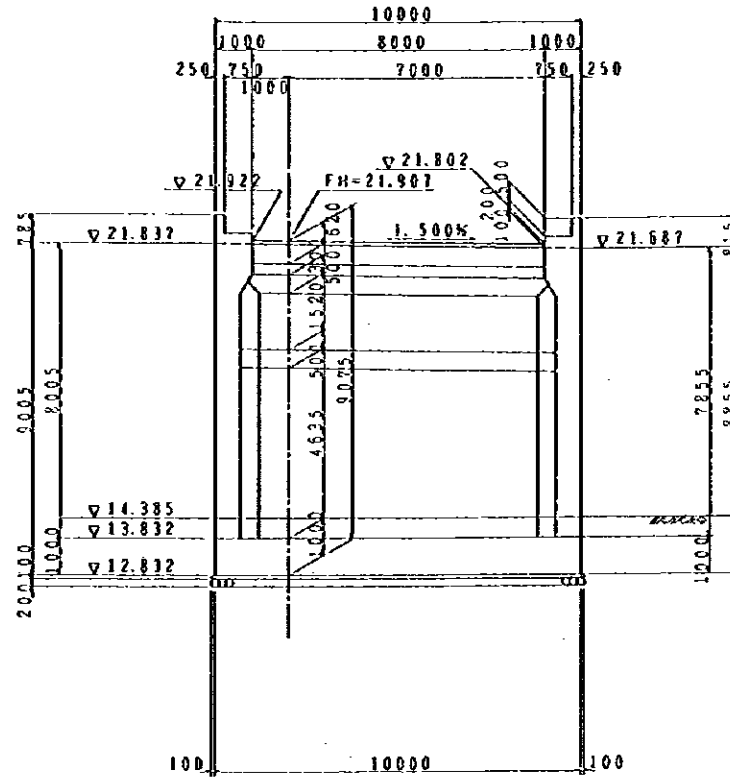
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)
JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: STRUCTURAL DETAIL OF A2 ABUTMENT AT A-LINE
DATE: _____ DWGNO. B-39

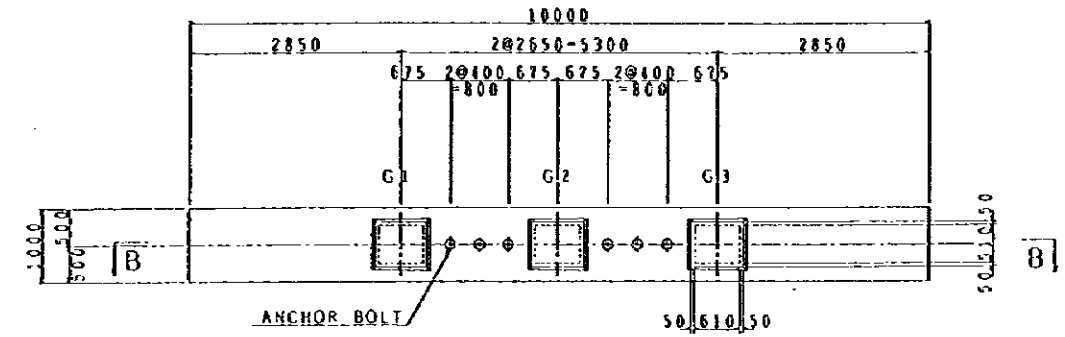
RA/18 AQR



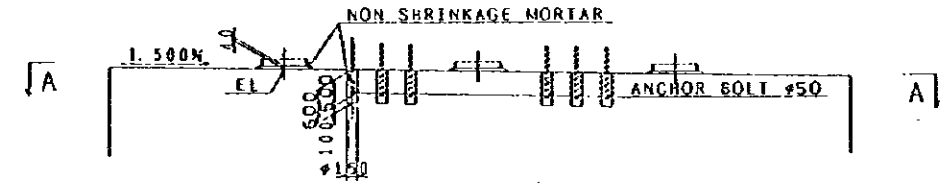
SECTION 1-1 S= 1/200



SECTION 2-2 S= 1/200



SECTION A-A S= 1/100



SECTION B-B S= 1/100

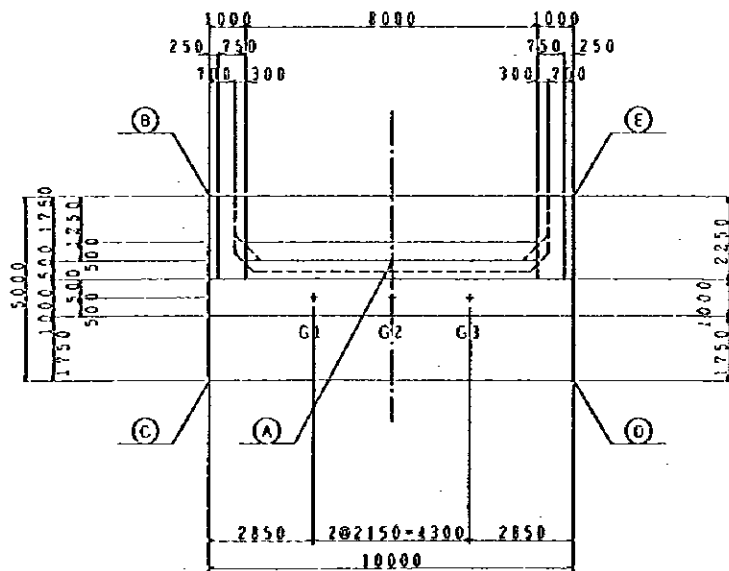
DETAIL OF SHOE BED

SHOE ELEVATION (EL) TABLE

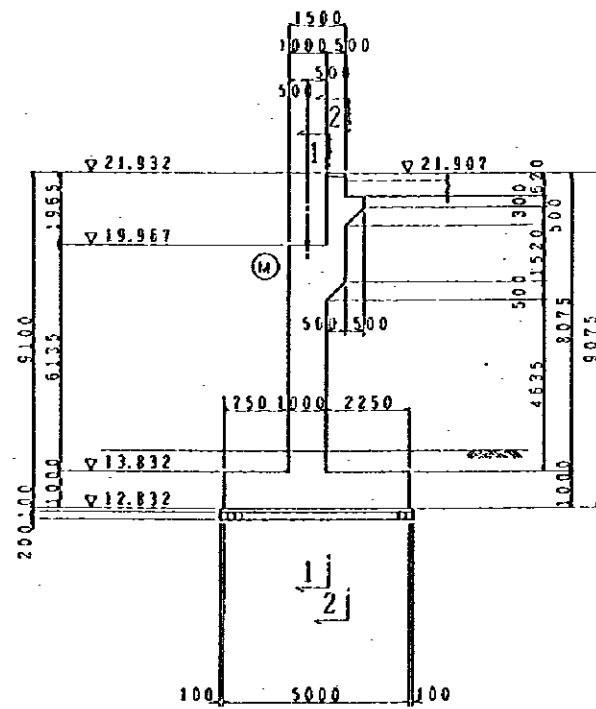
G 1	G 2	G 3
19.954	19.922	19.880

CO-ORDINATES LIST

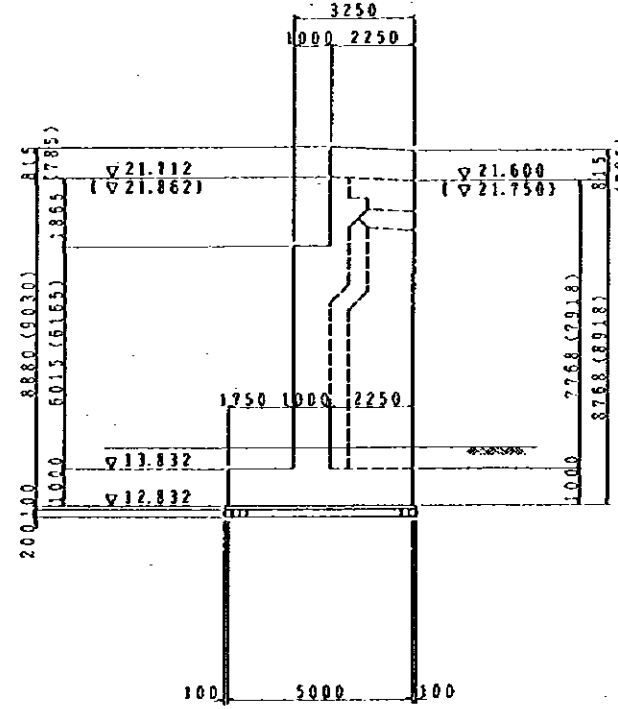
A	X	274308.2250
	Y	442862.2810
B	X	274341.8107
	Y	442902.6616
C	X	274341.0371
	Y	442897.9659
D	X	274340.5552
	Y	442903.2171
E	X	274340.4272
	Y	442907.8689



P L A N S= 1/200



SECTION 3-3 S= 1/200



SECTION 4-4 (5-5) S= 1/200

STRUCTURAL DETAIL OF A2 ABUTMENT AT B-LINE

NOTES:

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CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

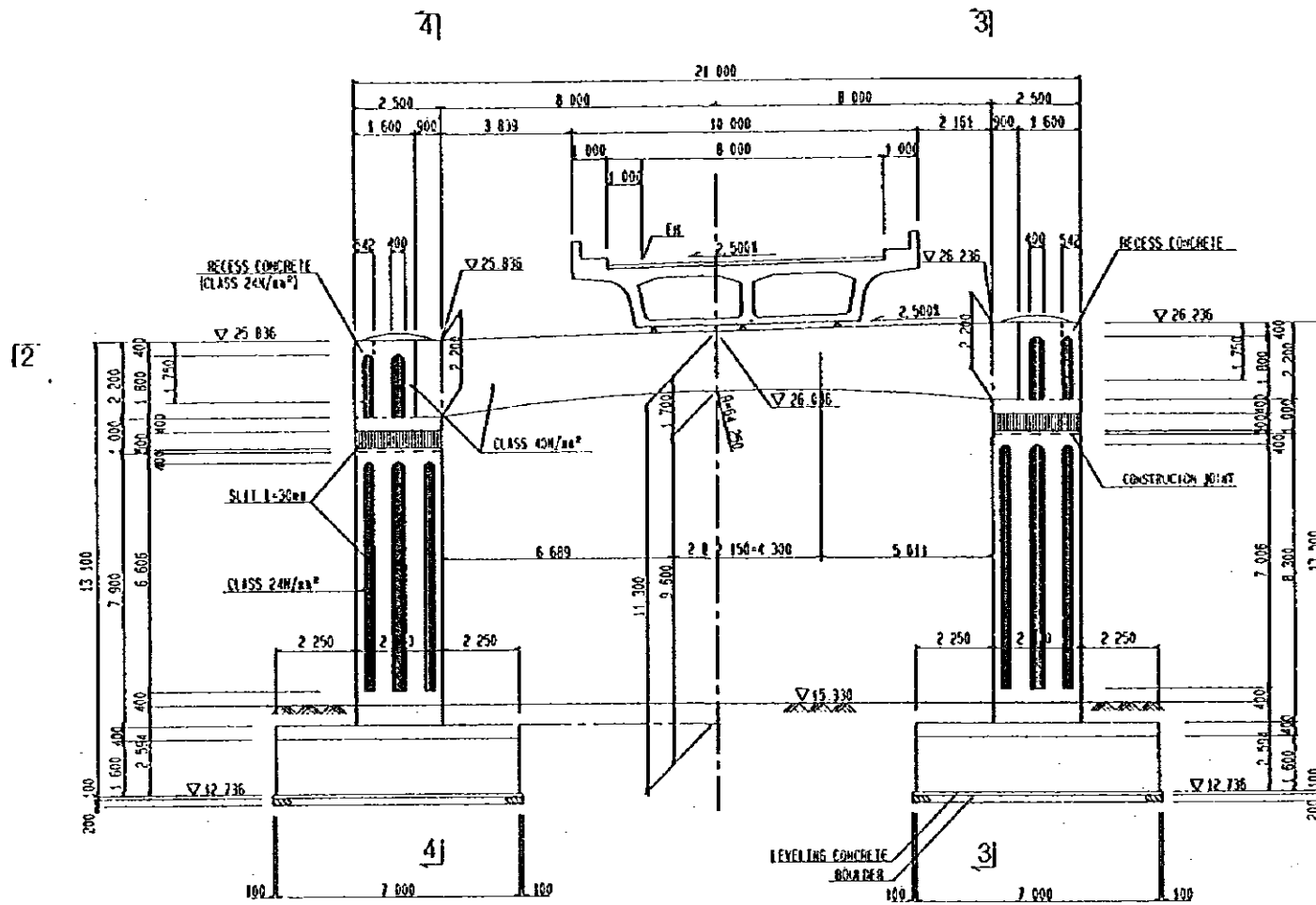
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: STRUCTURAL DETAIL OF A1 ABUTMENT AT B-LINE

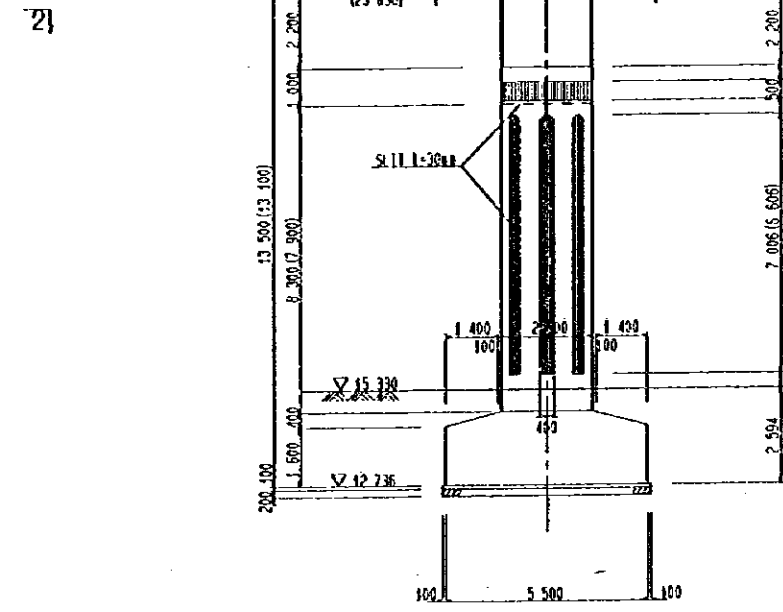
DATE

DWGNO.

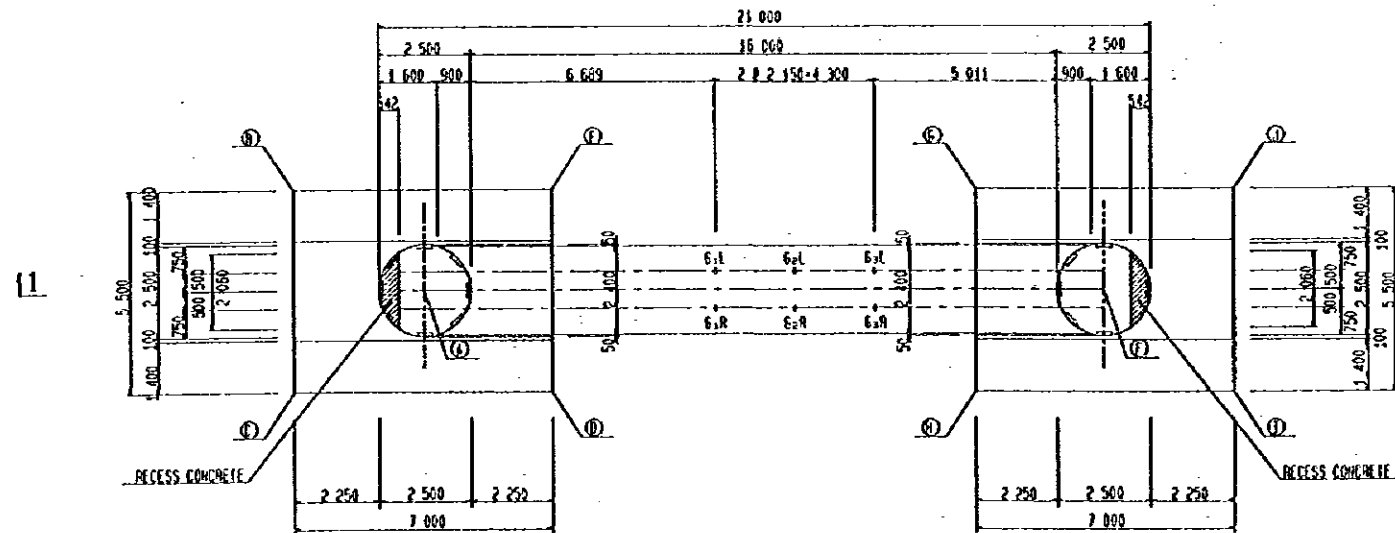
B-40



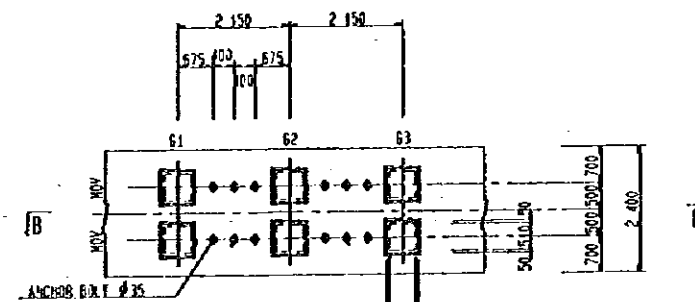
SECTION 1-1 S= 1/200



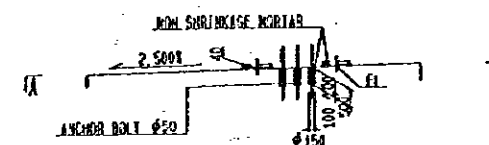
SECTION 3-3 (4-4) S= 1/200



SECTION 2-2 S= 1/200



SECTION A-A S= 1/140



SECTION B-B S= 1/1200
DETAIL OF SHOE BED

CO-ORDINATES LIST

	A	B	C	D	E
X	427457.1661	427455.7911	427453.3599	427451.9211	427450.4811
Y	412745.1803	412748.1102	412751.0401	412754.0101	412757.0101
	F	G	H	I	J
X	427450.6668	427450.1878	427450.7054	427450.2254	427450.7477
Y	412753.5001	412754.0202	412754.5401	412755.0601	412755.5801

SHOE ELEVATION (EL) TABLE

G ₁	G ₂	G ₃
26.007	26.057	26.111

STRUCTURAL DETAIL OF TWO-COLUMN PIER FOR P6, AT B-LINE

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY
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JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
YUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
TITLE: STRUCTURAL DETAIL OF TWO-COLUMN PIER(P6) AT B-LINE
DATE: _____ DWGNO. B-41