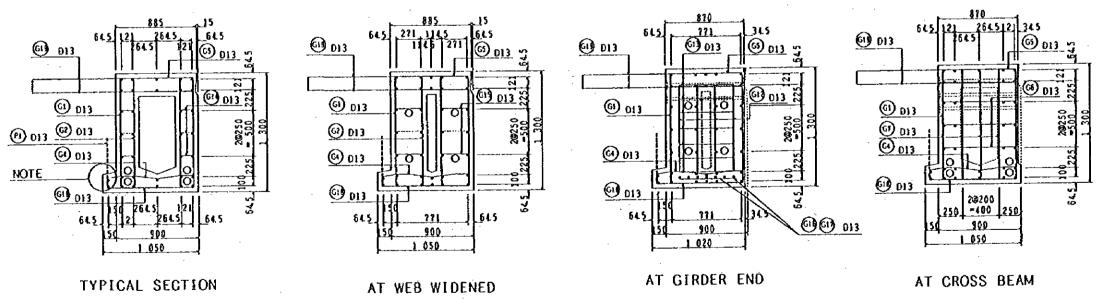


Ll	25 853	~	25 906
L2	187.5	~	214
13	187.5	~	214

SEE AND CHECK VALUE OF L' FOR OTHER EXT.GIRDER LENGTH FROM GENERAL VIEW SHEET

NOTE :

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

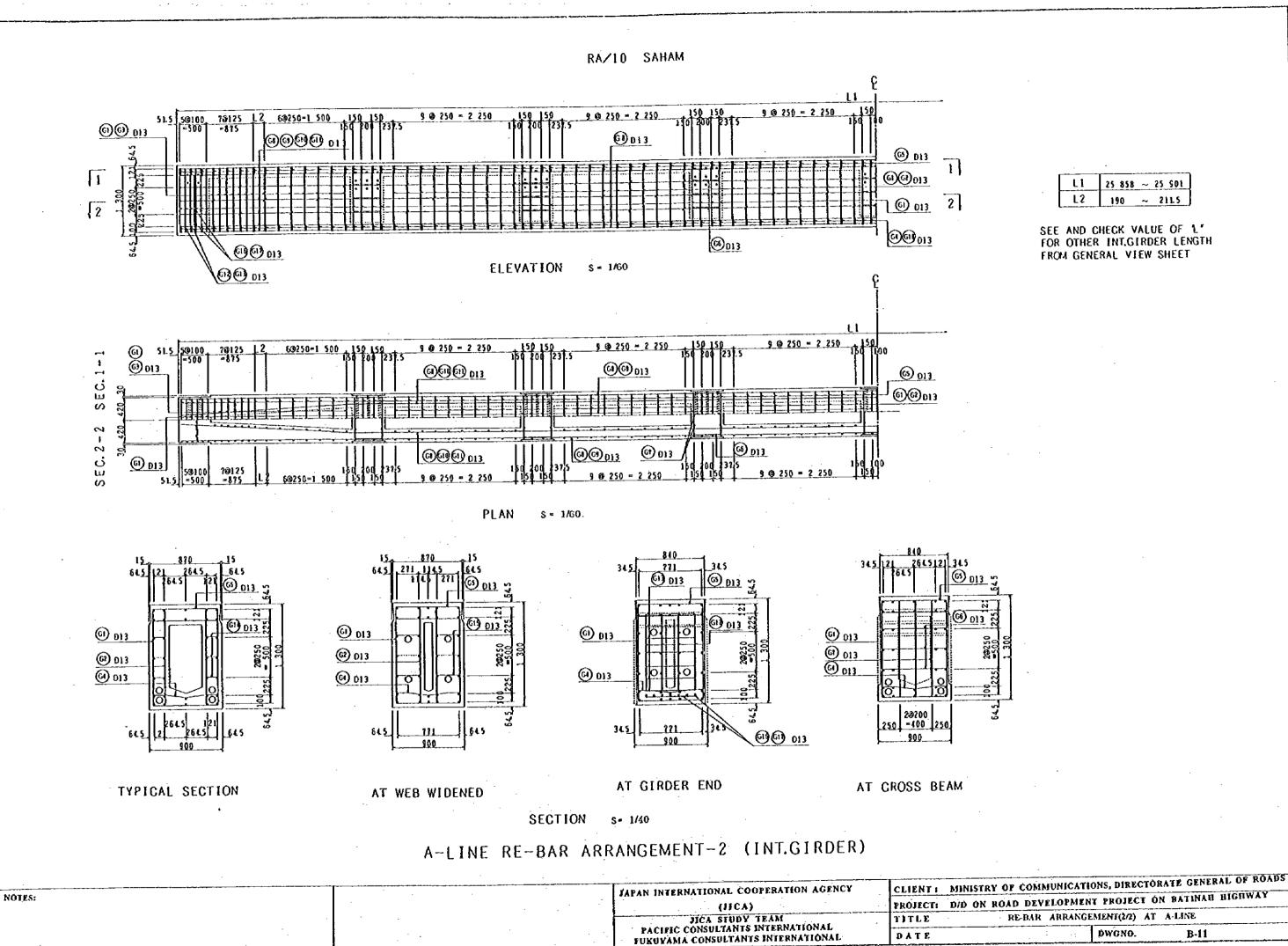


SECTION

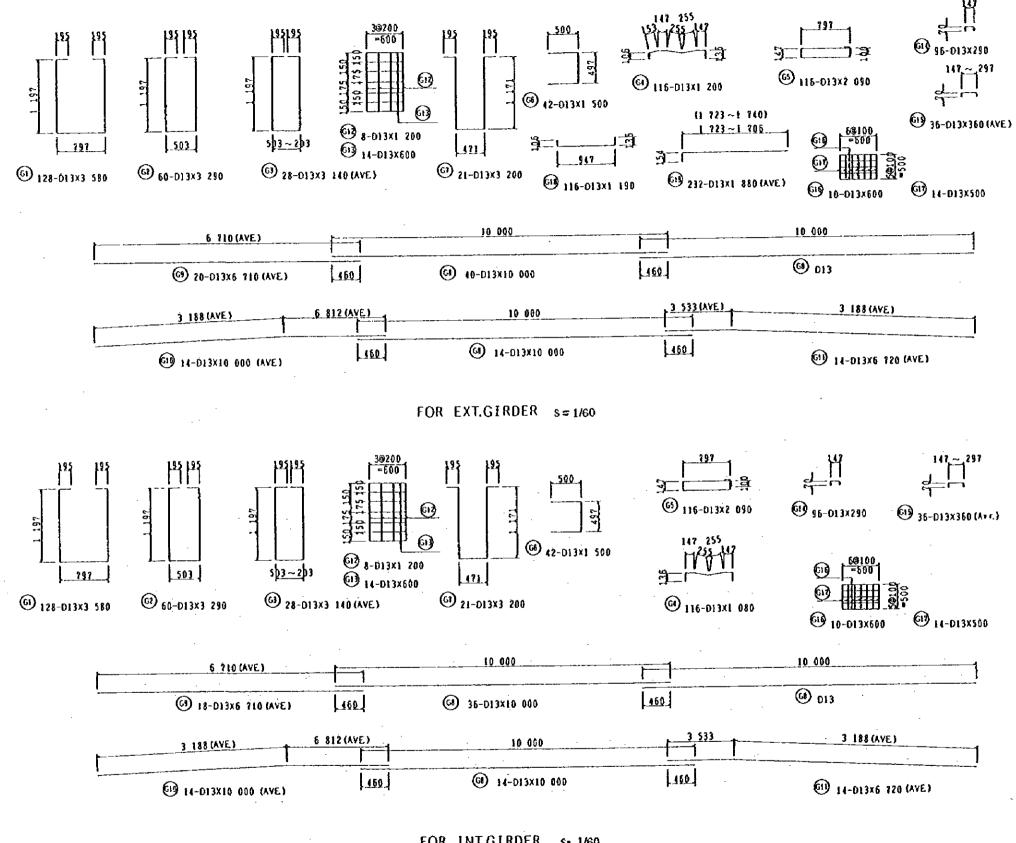
A-LINE RE-BAR ARRANGEMENT-1 (EXT.GIRDER)

s= 1/40

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY NOTES: (JICA) JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL RE-BAR ARRANGEMENT(1/2) AT A-LINE TITLE DWGNO. B-10 BATE



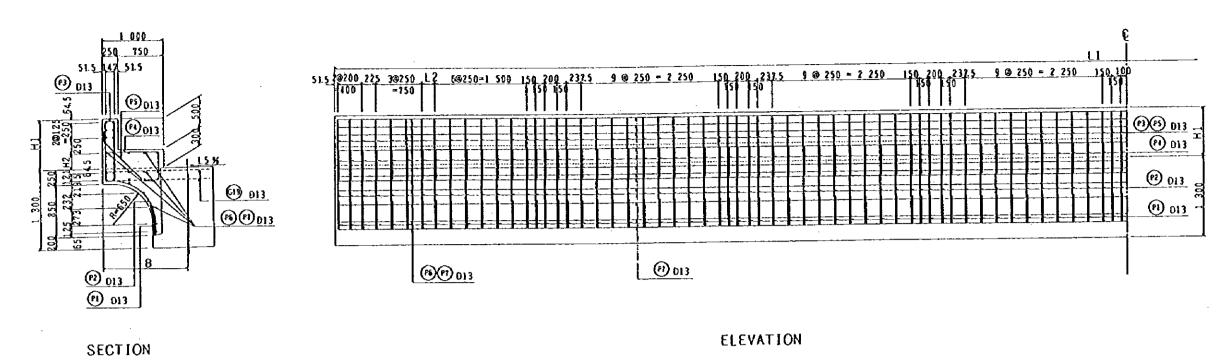
,



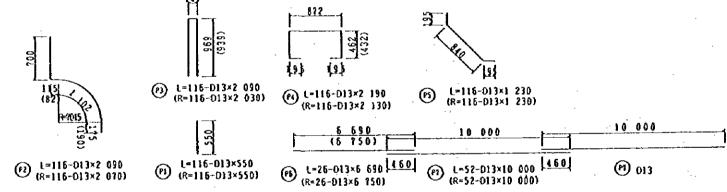
FOR INT.GIRDER s-.1/60

BAR SCHEDULE OF MAIN GIRDER AT A-LINE

			CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	NOTE.		V2.2
	NOTES:	(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		IICA STUDY TEAM	TITLE BAR SCHEDULE OF MAIN GIRDER AT A-LINE
		PACIFIC CONSULTANTS INTERNATIONAL	DATE DWGNO. B-12
.		FUKUYAMA CONSULTANIS INTERNATIONAL	

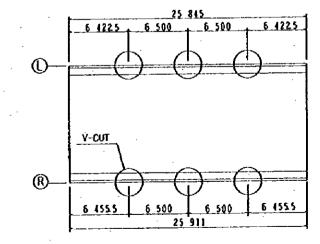




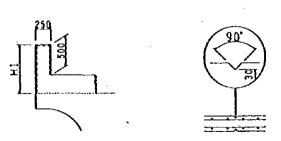


	(1) ~ (12)	REMARKS
L1	25 845	LEVEL
L2	1835	LEVEL
В	1 400 ~ 1 383	VARIABLE
Н1	815	
H2	259.5	
L1	25 911	LEVEL
L2	216.5	LEYEL
В	1 400 ~ 1 417	VARIABLE
HI	785	<u> </u>
H2	220.5	<u> </u>
	L2 B H1 H2 L1 L2 B H1	L1 25 845 L2 1835 B 1 400 ~ 1 383 H1 815 H2 2505 L1 25 911 L2 2165 B 1 400 ~ 1 417 H1 785

DIMENSION LIST



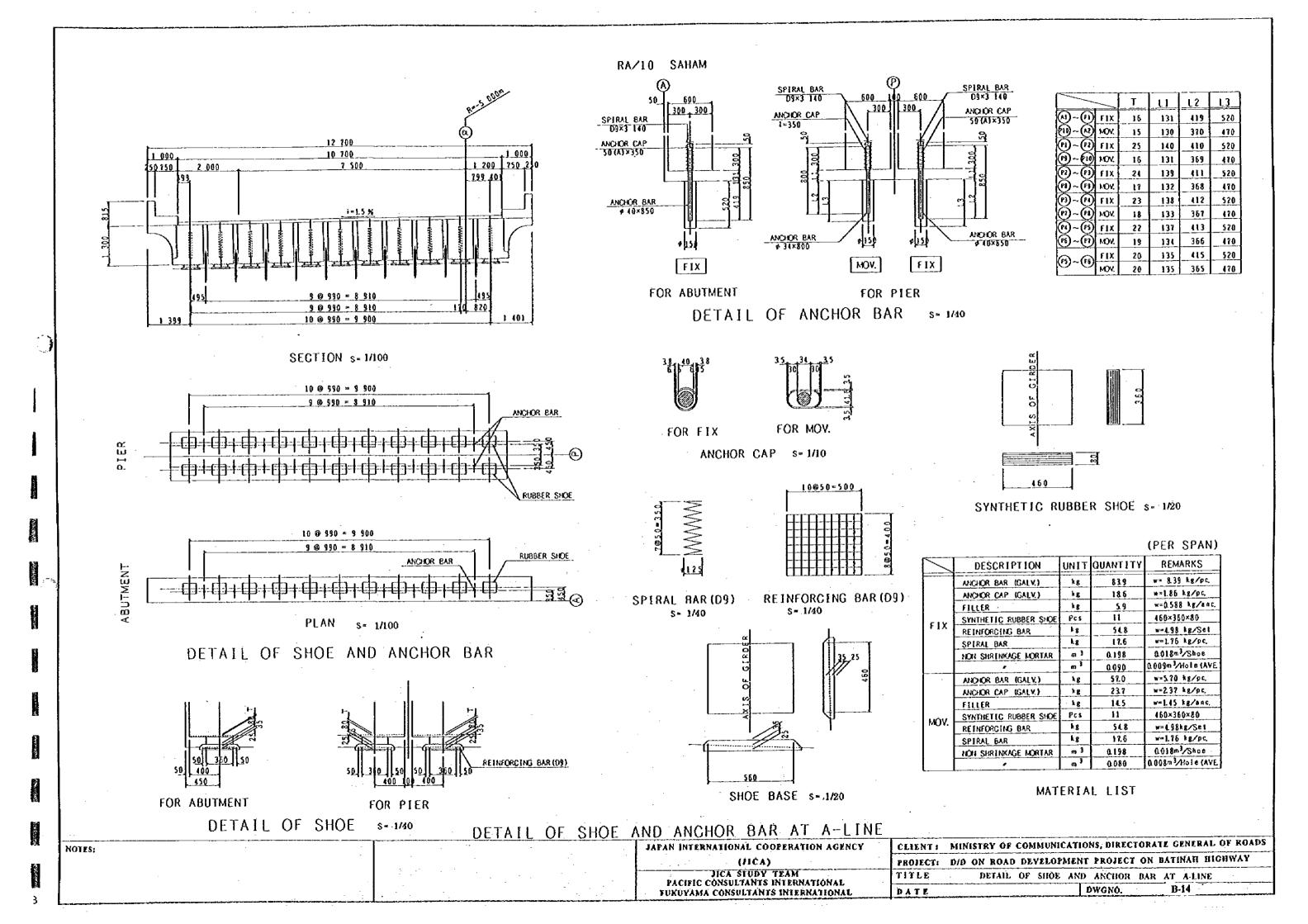
BAR SCHEDULE

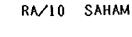


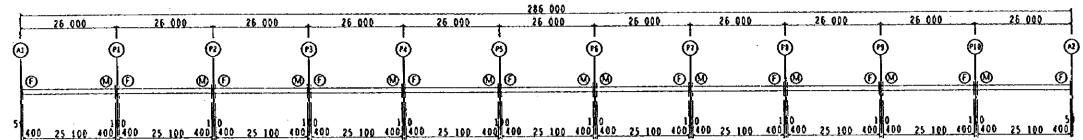
DETAIL OF V-CUT

RAILING AND CANTILEVER SLAB AT A-LINE

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT 1 MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NO125.	(HCA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH RIGHWAY
	JICA STUDY TEAM	TITLE RAILING AND CANTILEVER SLAB AT A-LINE
	PACIFIC CONSULTANTS INTERNATIONAL BUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-13
1	20HVIIII COMPANIE COM	

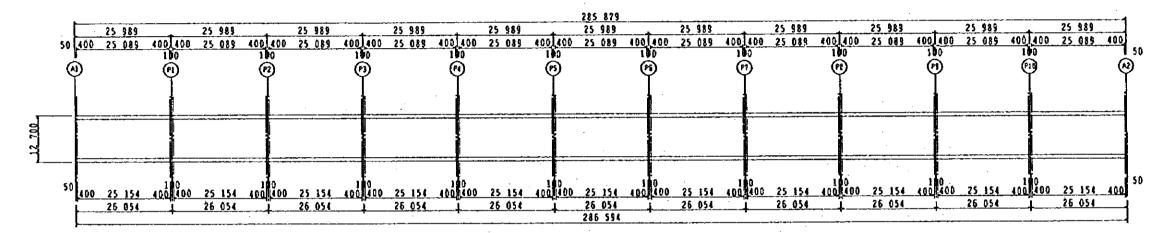




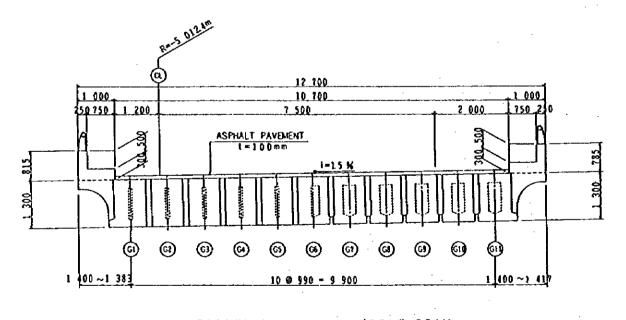


PROFILE OF BRIDGE

s- 1/1000



PLAN s=.1/1000



GIRDER END

MIDDLE SPAN

12 100 1 000 10-700 50 750 1 200

TYPICAL SEC

			-
SECTI	ON.	é-	1/100

GENERAL VIEW OF BRIDGE AT B-LINE

JAPAN INTERNATIONAL COOPERAT NOTES: (JICA) JICA STUDY TEAM
PACIFIC CONSULTANTS INTERN FUKUYAMA CONSULTANTS INTER

LO 25 898 25 903

(A) ~ (P) L1 25 098 25 103

(P) ~ (Q) L2 3 1365 3 139.0

(P) ~ (P) L1 25 897 25 902 L1 25 097 25 102

(P)~(P) L2 3 1360 3 1385

(P2) ~ (P3) L1 25 897 25 902 (P6) ~ (P7) L2 3 138.0 3 138.5

P) ~ P) L0 25 896 25 901 L1 25 096 25 101

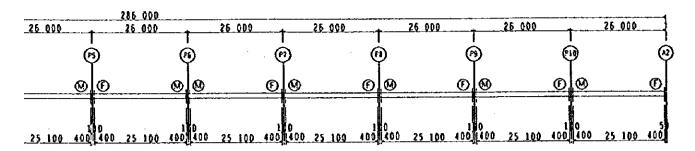
(B) ~ (B) L2 3 1355 3 1380

15

LO 25 896 25 901 L1 25 096 25 101

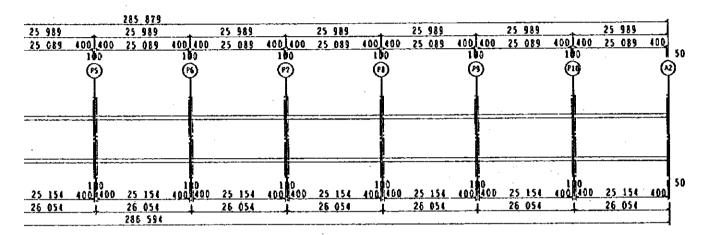
3 1355 3 1380

RA/10 SAHAM

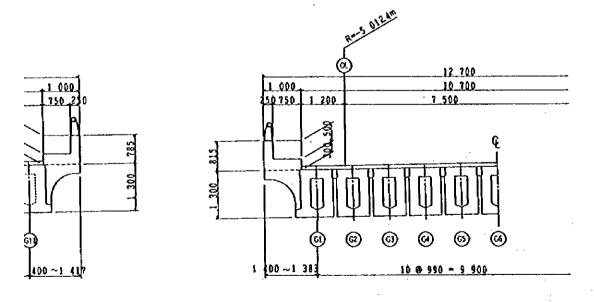


PROFILE OF BRIDGE

s= 1/1000



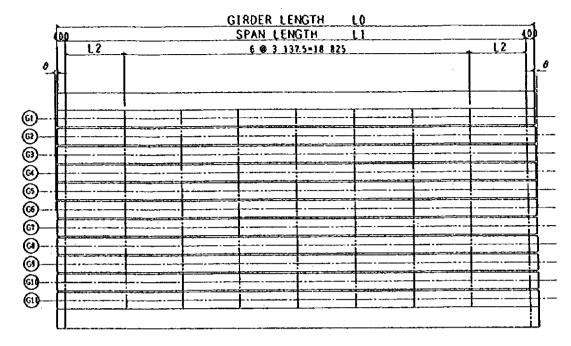
PLAN s=.1/1000



TYPICAL SEC

SECTION s= 1/100

GENERAL VIEW OF BRIDGE AT B-LINE



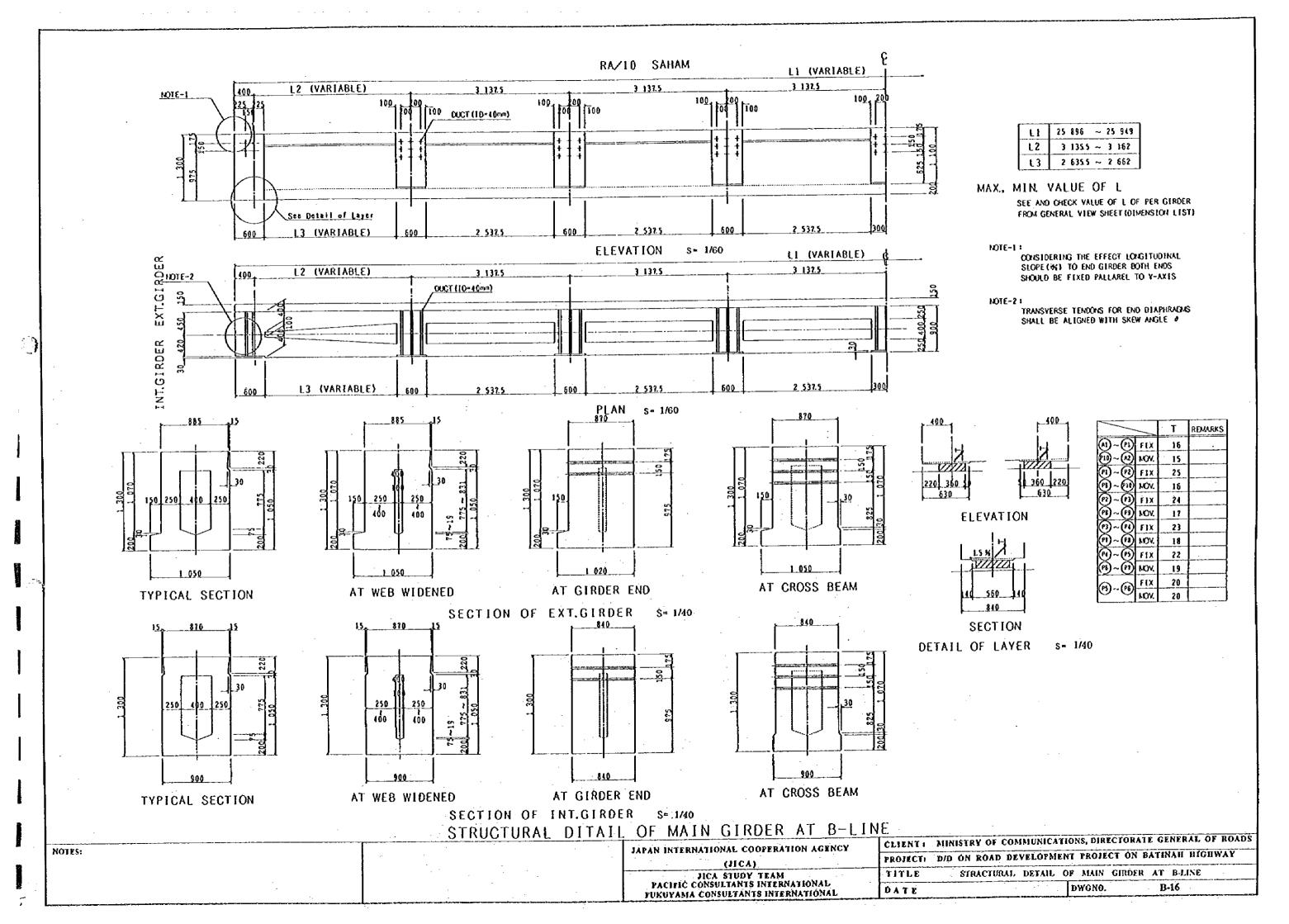
R=-5 012.4m(AT CL)

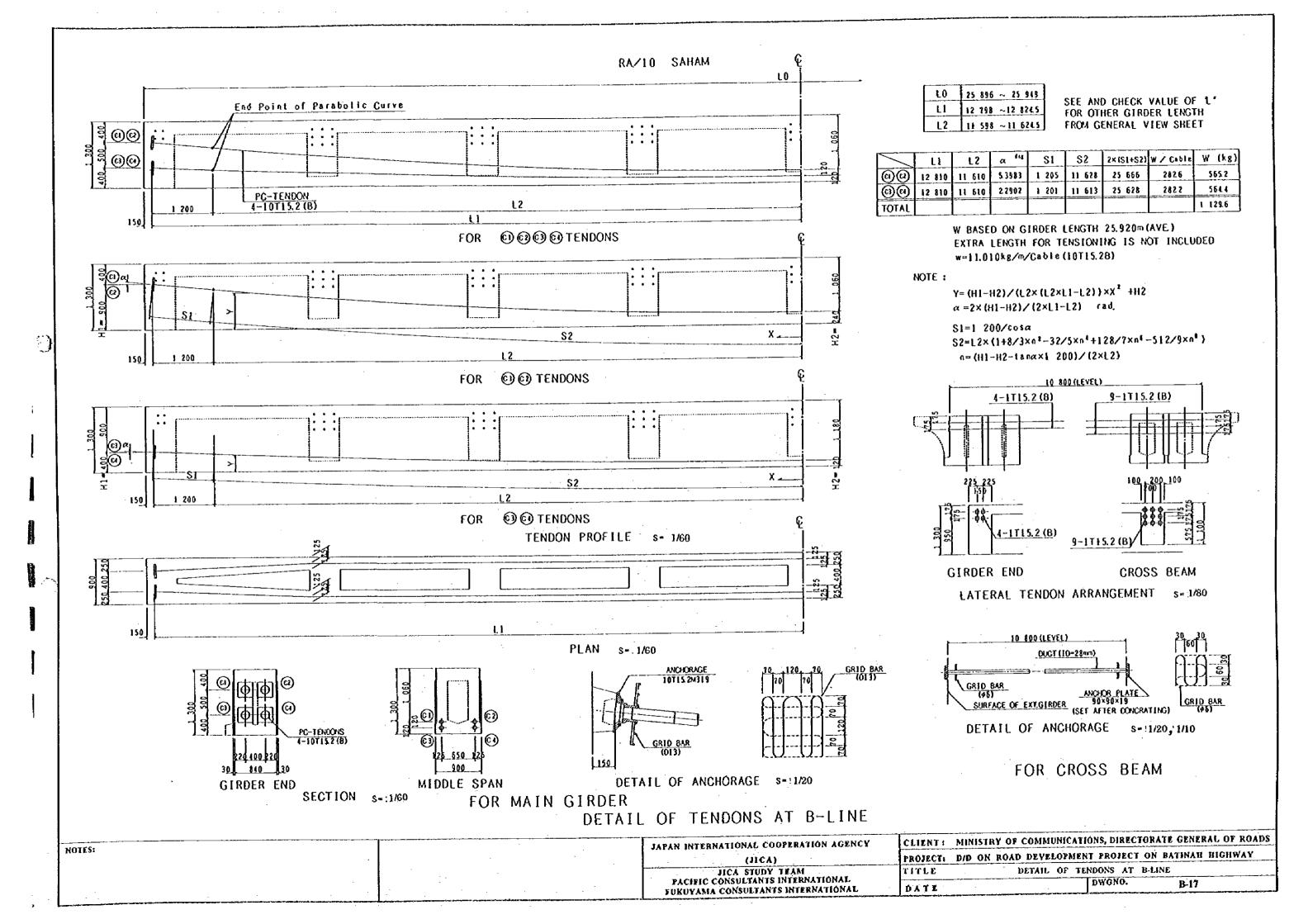
GIRDER LENGTH

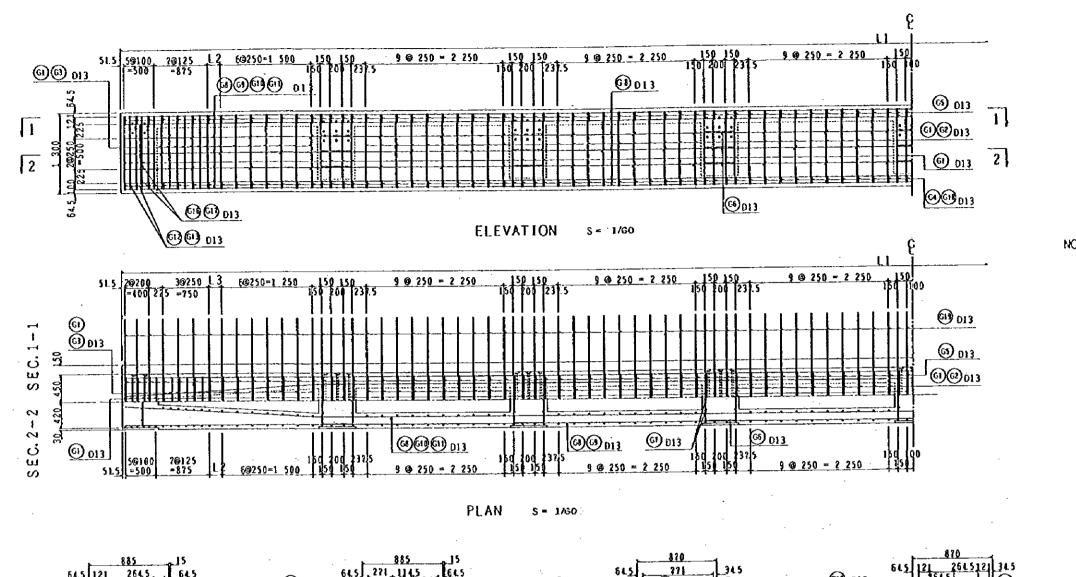
		G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G1 1	REMARKS
	LO	25 898	25 903	25 908	25 913	25 919	25 924	25 929	25 934	25 939	25 944	25 949	INCLINEÓ LENGTH
(4)~(4)	Li	25 098	25 103	25 108	25 113	25 119	25 124	25 129	25 134	25 139	25 144	25 149	
(P)~(R)	L2	3 1365	3 139.0	3 1415	3 1460	3 147.0	3 1495	3 1520	3 1225	3 1200	3 117.5	3 115.0	
	8						0.14861						
<u> </u>	LO	25 897	25 902	25 \$08	25 913	25 918	25 923	25 928	25 933	25 938	25 943	25 949	INCLINED LENGTH
(n)~(n)	LI	25 097	25 102	25 108	25 113	25 118	25 123	25 128	25 133	25, 138	25 143	25 149	·
(P)~(P)	£2	3 1360	3 1385	3 14L5	3 1440	3 1465	3 1490	3 1515	3 1540	3 1565	3 159.0	3 1520	
	• 0						0.14861						3.02. To 25
<u> </u>	LO	25 897	25 902	25 307	25 512	25 917	25 922	25 927	25 932	25 938	25 943	25 948	INCLINED LENGTH
@~@	LI	25 097	25 102	25 107	25 112	25 117	25 122	25 127	25 132	25 138	25 143	25 148	
(A)~(P)	LŽ	3 1360	3 1385	3 1410	3 1435	3 145.0	3 1485	3 1510	3 1535	3 1565	3 159.0	3 161.5	·
	θ						0.14861					·	TEAL INTA
<u> </u>	LO	25 896	25 901	25 306	25 912	25 91?	25 922	25 927	25 932	25 537	25 942	25 948	INCLINED LENGTH
(B)~(H)	LJ	25 098	25 101	25 106	25 112	25 117	25 122	25 127	25 132	25 137	25 142	25 148	<u> </u>
(F)~(F)	L2	3 1355	3 1380	3 1405	3 1435	3 146.0	3 1485	3 1510	3 1535	3 156.0	3 1585	3 1615	
	8	-					0.14861						1000 1000
	LO	25 896	25 901	25 906	25 911	25 916	25 921	25 927	25 932	25 937	25 942	25 947	INGLINED LENGTH
(n)~(n)	LI	25 096	25 101	25 106	25 111	25 116	25 121	25 127	25 132	25 137	25 142	25 147	
	L2	3 1355	3 138.0	3 1405	3 1430	3 145.5	3 148.0	3 151.0	3 1535	3 1560	3 1585	3 16L0	
	ð						0.14861						<u> </u>

DIMENSION LIST FOR B-LINE

JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROAD
(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL	TITLE GENERAL VIEW OF BRIDGE AT B-LINE
FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-15





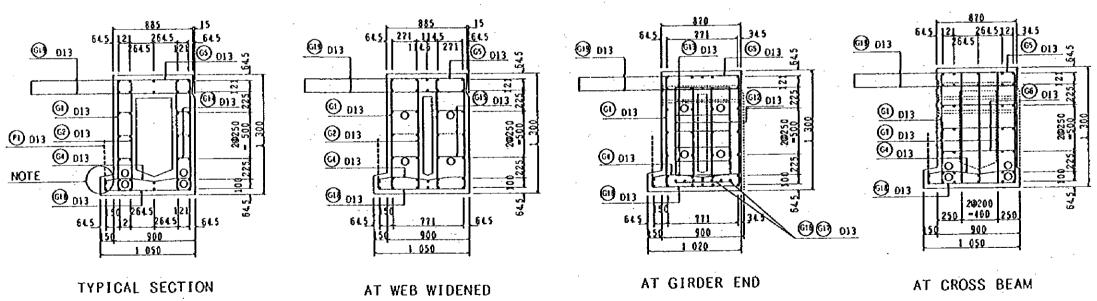


Ll	25 896	~	25 949
L2	209	~	235.5
1.3	209	~	235.5

SEE AND CHECK VALUE OF L' FOR OTHER EXT.GIRDER LENGTH FROM GENERAL VIEW SHEET

NOTE:

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

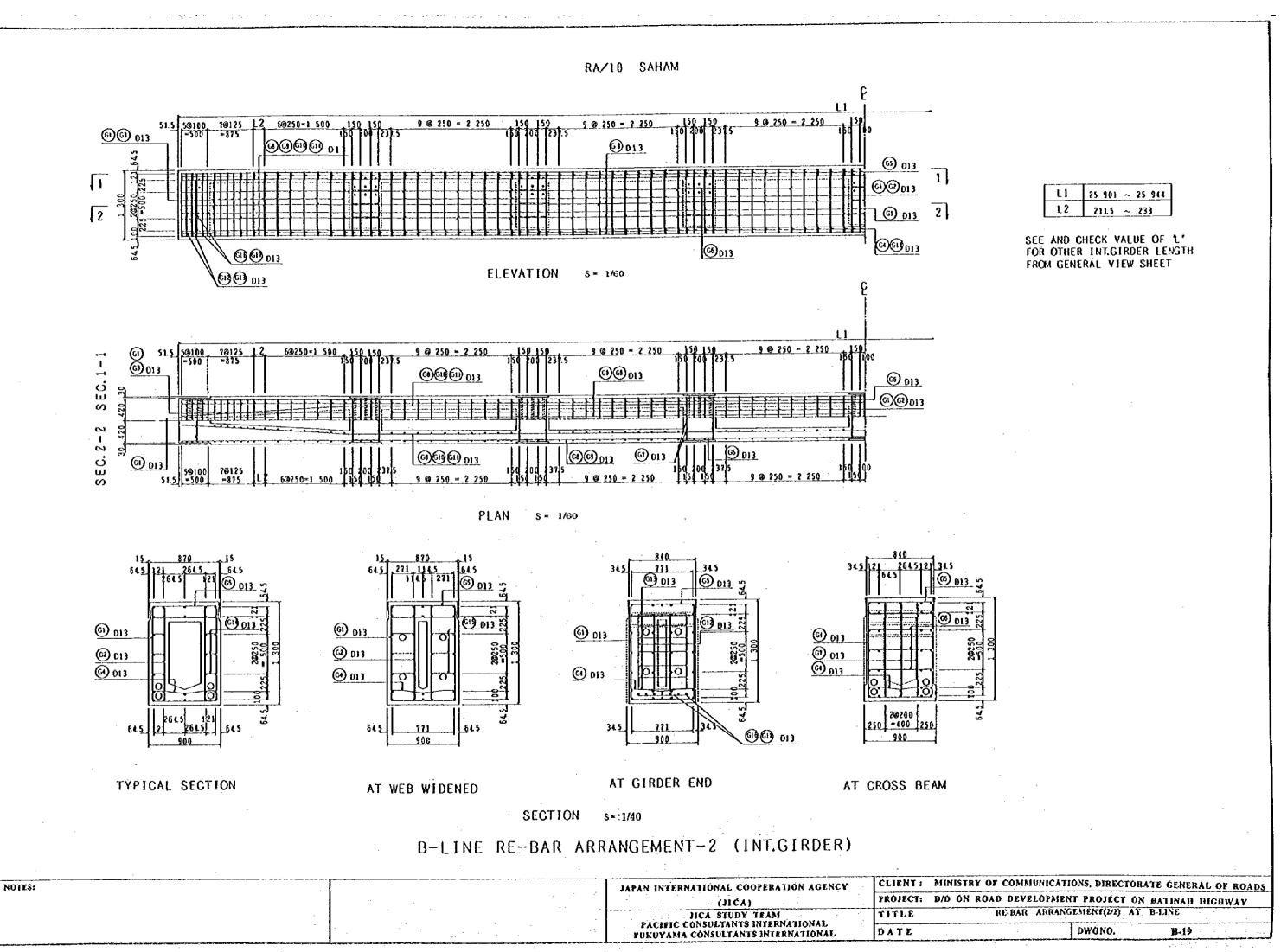


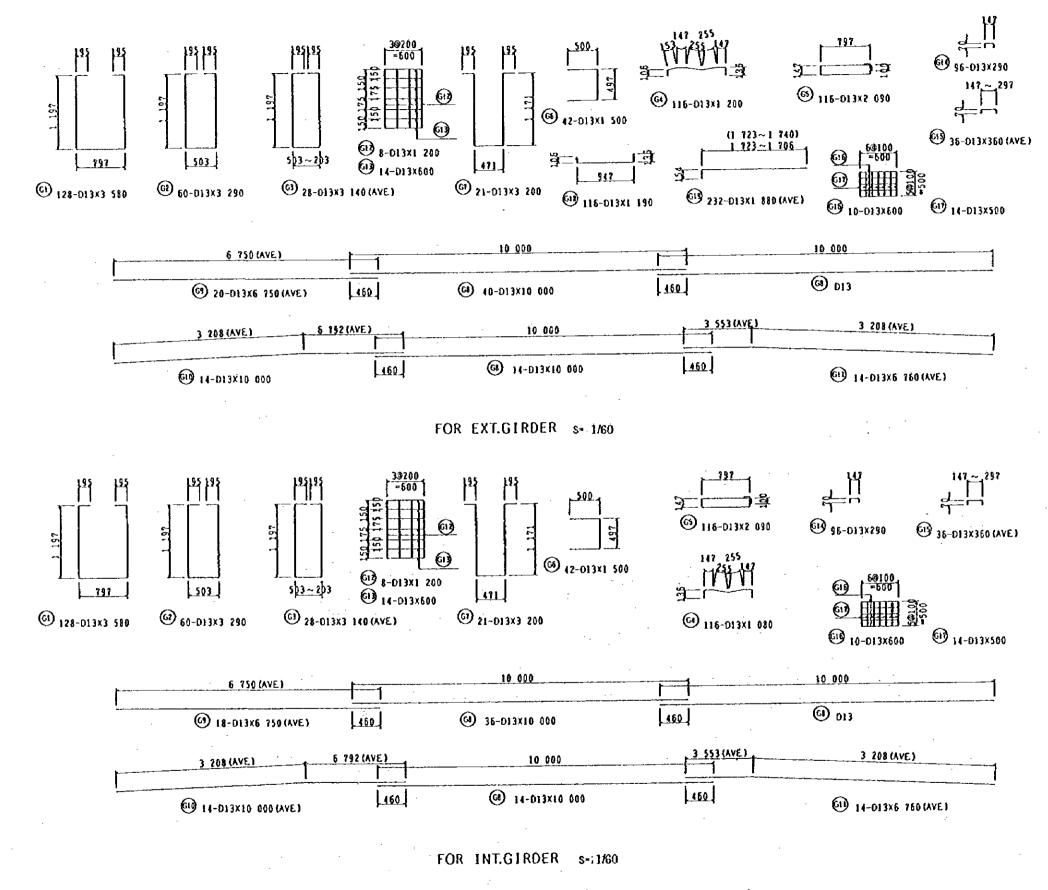
SECTION

B-LINE RE-BAR ARRANGEMENT-1 (EXT.GIRDER)

s=:1/40

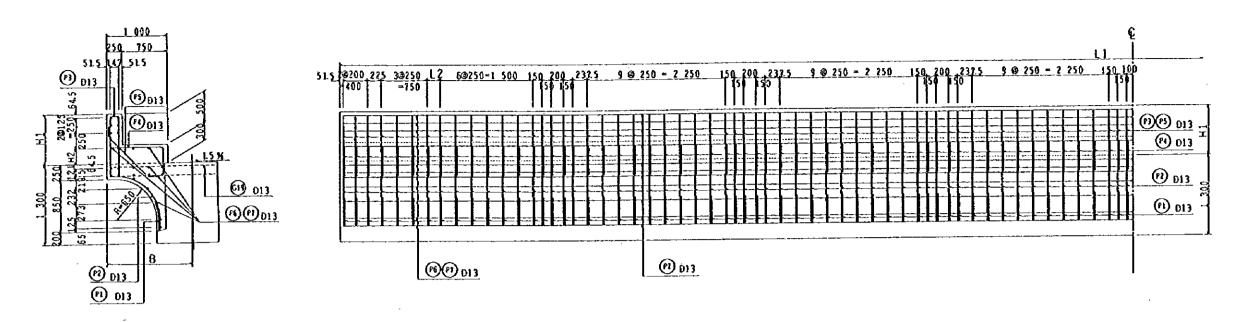
1	·		
NOTES:		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	·	(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAM	TITLE RE-BAR ARRANGEMENT(1/2) AT B-LINE
·		PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWCNO. B-18
		TOTOLARIA COMO DE LA COMO DEL COMO DE LA COMO DEL LA COMO DE LA COMO DEL LA COMO D	





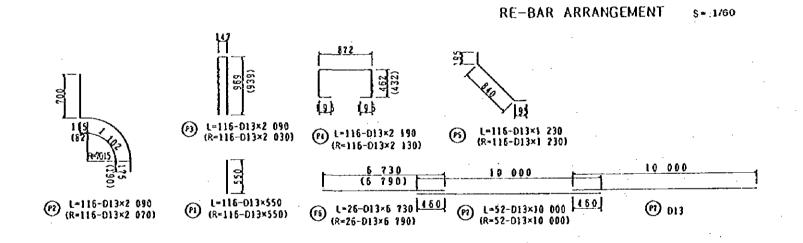
BAR SCHEDULE OF MAIN GIRDER AT B-LINE

		And the state of t
	TUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-20
	PACIFIC CONSULTANTS INTERNATIONAL	TITLE BAR SCHEDULE OF MAIN GIRDER AT B-LINE
-	(71017)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
NOTES:		
	TO A STRUCTURE OF A CENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTURATE GENERAL OF ROADS



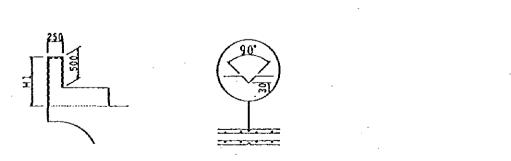
SECTION

ELEVATION



		(4) ~ (4)	REMARKS
	LI	25 889	LEVEL
	L2	205.5	LEVEL
(0)	8	1 400 ~ 1 383	VARIABLE
	H1	815	
	H2	250,5	Ĺ
	Li	25 954	LEVEL
	L2	238.0	LEVEL
(R)	В	1 400 ~ 1 417	VARIABLE
	HI	185	
	H2	220.5	L

DIMENSION LIST



BAR SCHEDULE

P-CUT

6 477 6 500 6 500 5 427

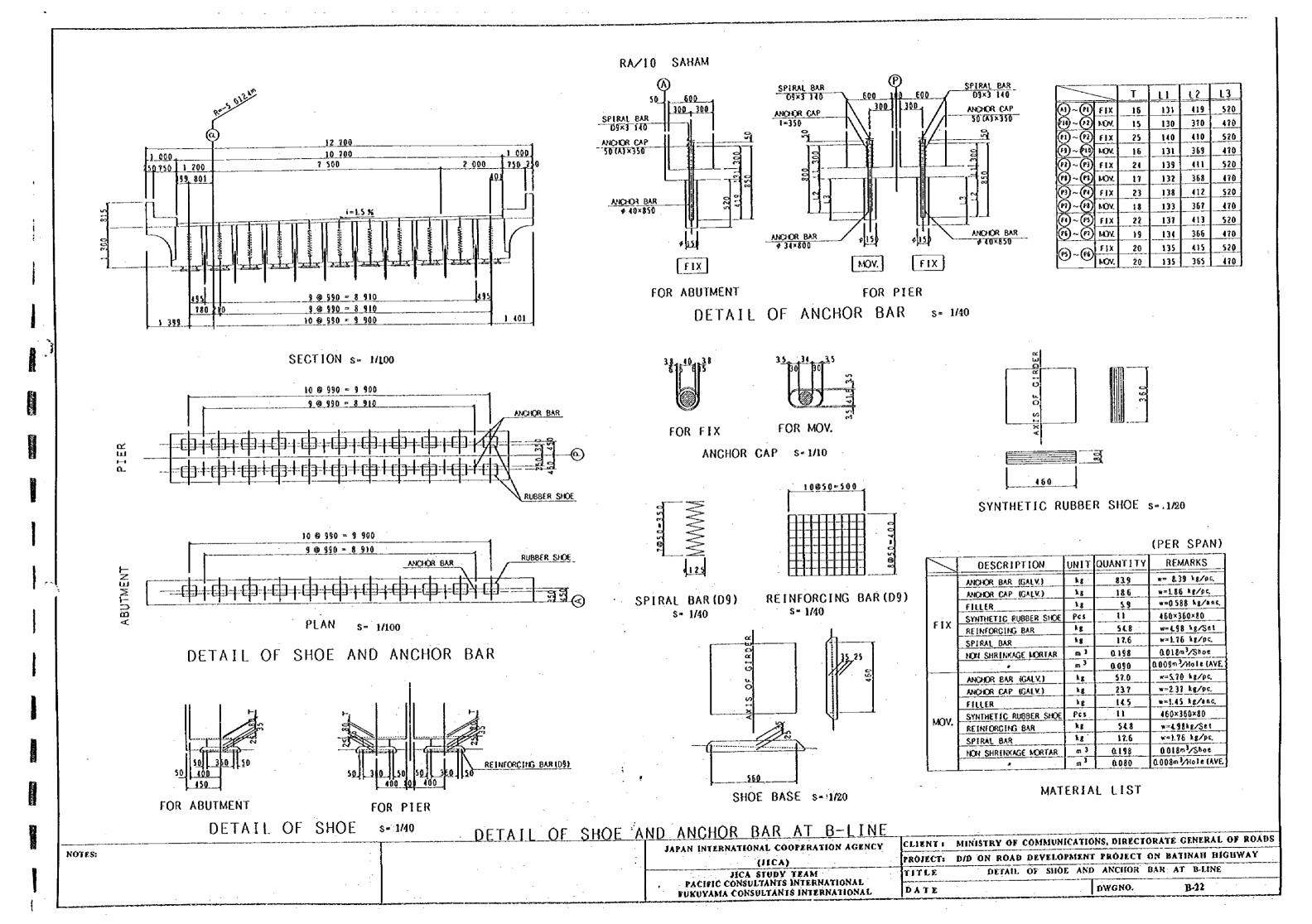
25 889

6 477 6 500 6 500 5 427

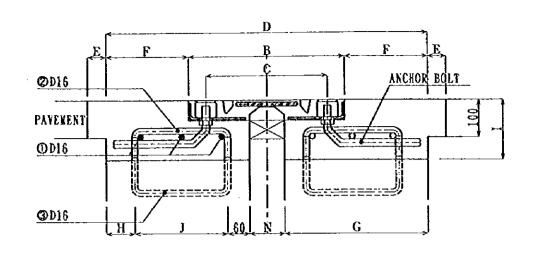
DETAIL OF V-CUT

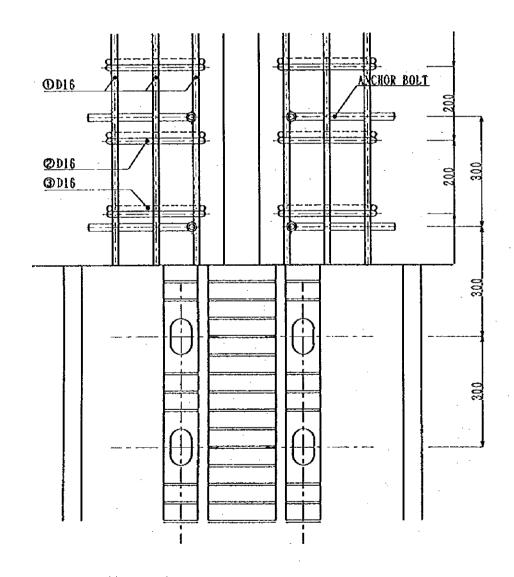
RAILING AND CANTILEVER SLAB AT B-LINE

N.	OTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
ľ		(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAM	TITLE RAILING AND CANTILEVER SLAB AT B-LINE
		PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-21



S A H A M





NEASURE DATA

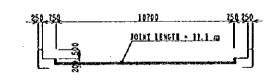
		A	В	С	D	E	F	G	Н	I	J	standard space bettern seabs N	TRAVEL
	PIER	54	433	340	879	50	223	390	80	160	250	100	80
ĺ	АВИТ	40	303	235	709	50	203	330	70	150	200	50	50

MATERIAL LIST (PER 10 m)

NATERIAL	CLASSIFICATION	UNIT	PIER	ABUT
TRANSFLEX JOINT	INCLUDING ANCHORBOLT	m	10.0	10.0
	FOR JOINT SEALS	k g	22. 5	16.0
SEALANT	FOR PLUG HOLE	kg	8. 5	4.0
	O D 1 6	k g	93. 60	93.60
REINFORCING BAR	Ø D16	kg	60. 84	53.04
RECESS CONCRETE	HIGH-EARLY STRENGTH CONCRETE	m¹	1. 143	0.964
COLORING AGENT OF THE FACE	3 kg/m²	k g	16. 0	15. 0
POLYURETHANE FORM		m	10.0	10.0
	SAND	m³	0.66	0. 53
TRANŠIENT FILLING MATERIAL	ASPHALT CONCRETE	m*	0.73	0. 60

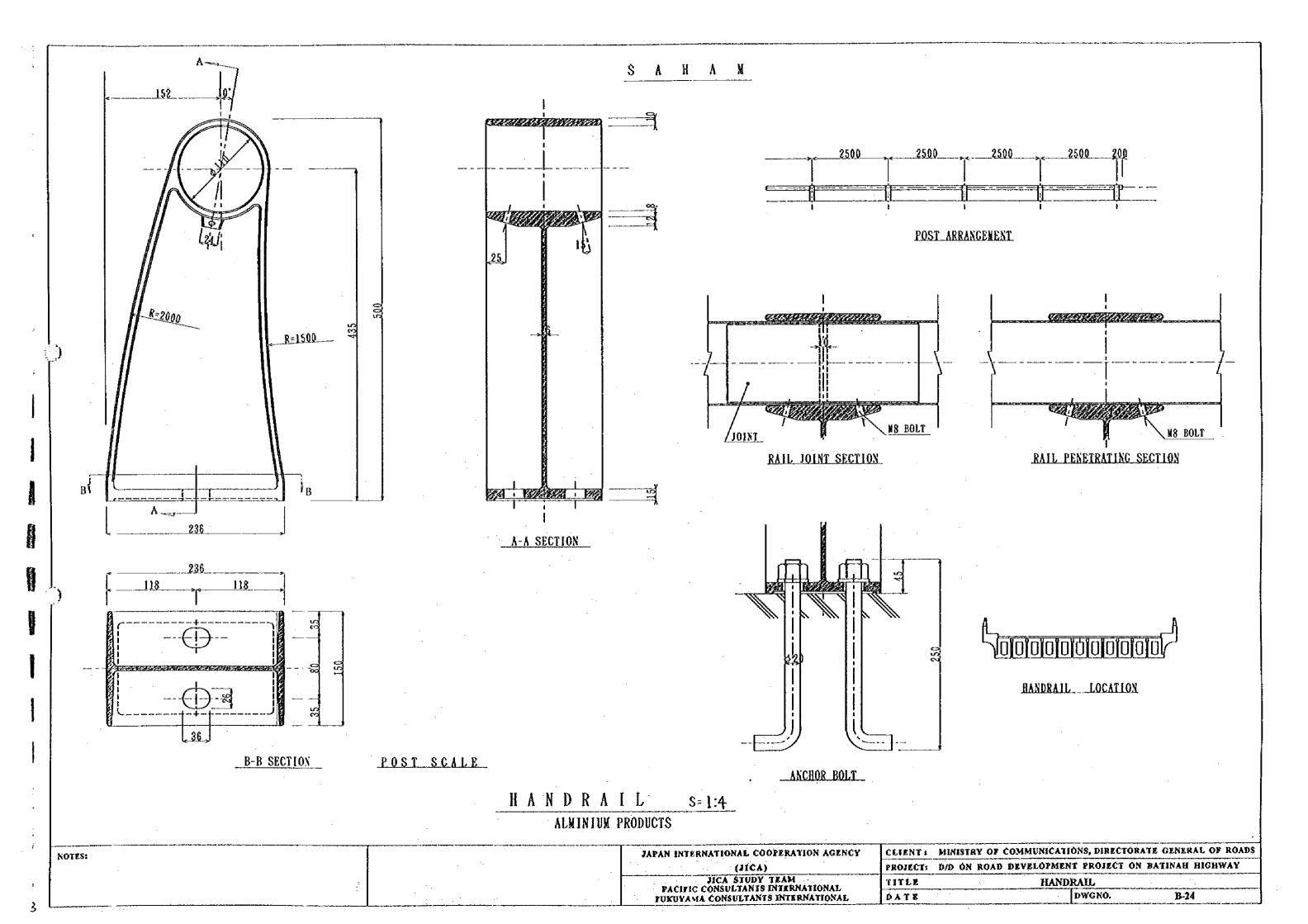
QUANTITY LIST

	PIER	ABUTNENT
AL KHABURAHN	2 0	4
TOTAL LENGTH	222. 0	44. 4

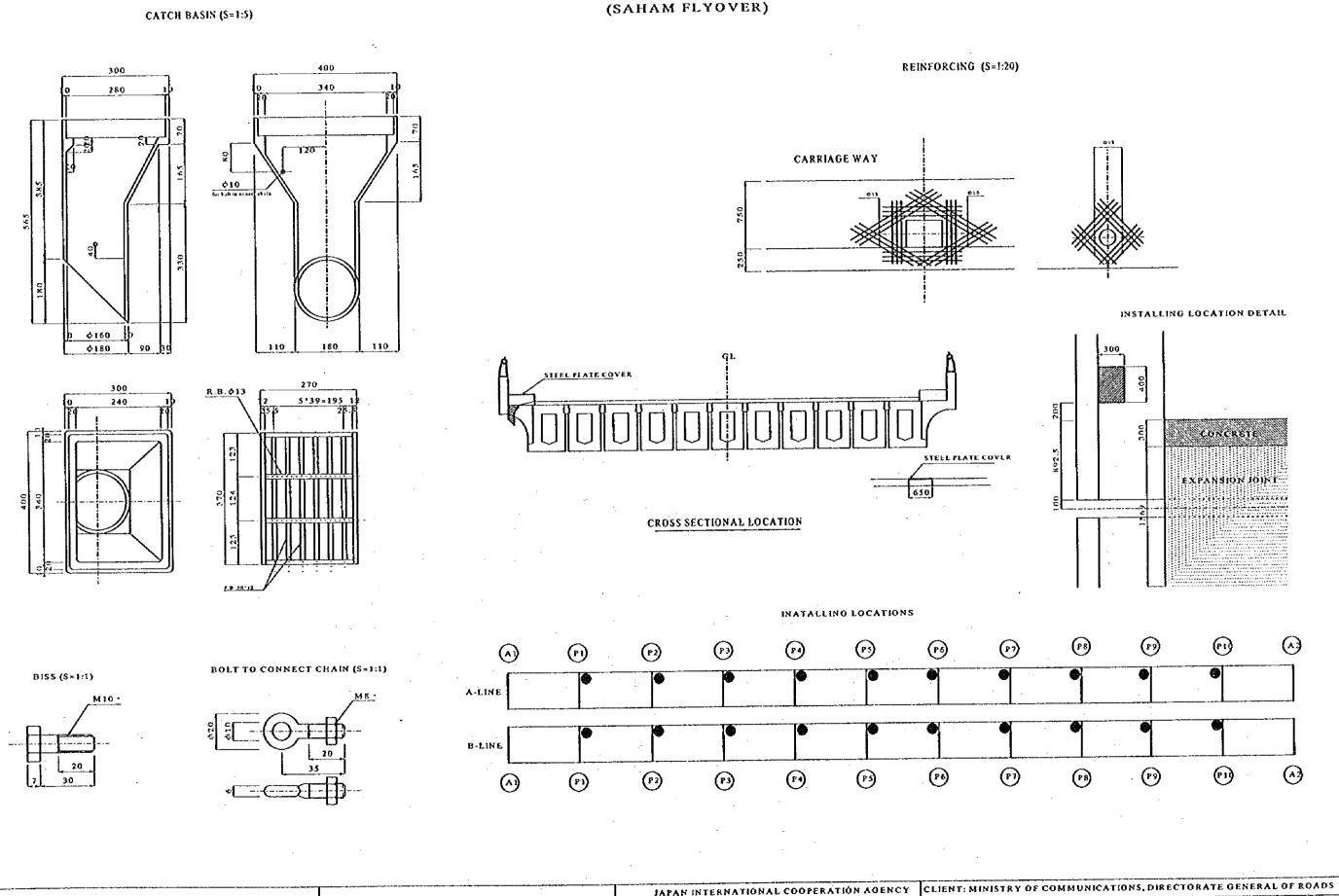


JOINT LENGTH PER 1 PLACE

TRANSFLEX JOINT S= 1/10



BRIDGE DRAINAGE DETAILS (SAHAM FLYOVER)



JAPAN INTERNATIONAL COOPERATION AGENCY

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

DATE

(HCA)

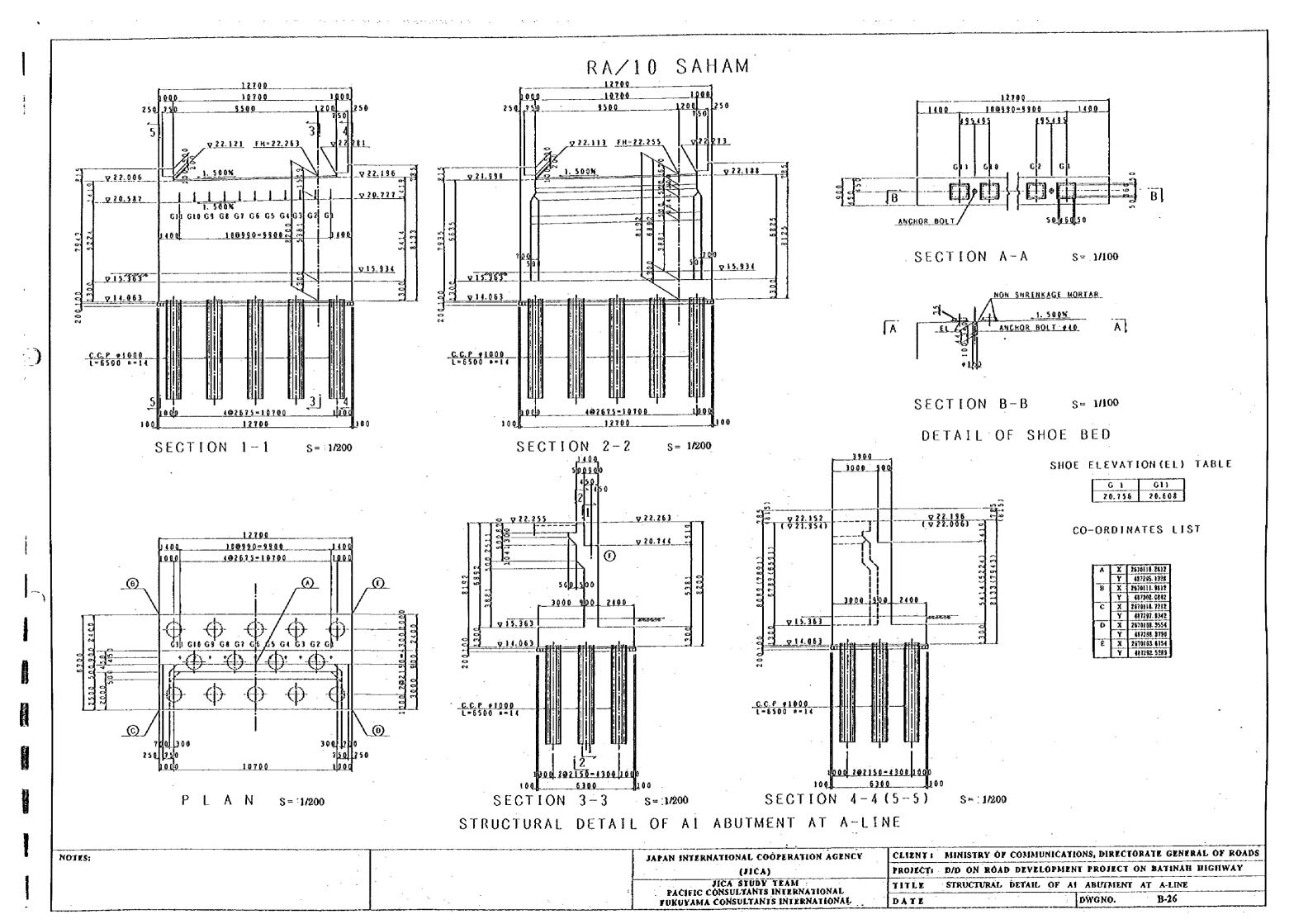
PRÔJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

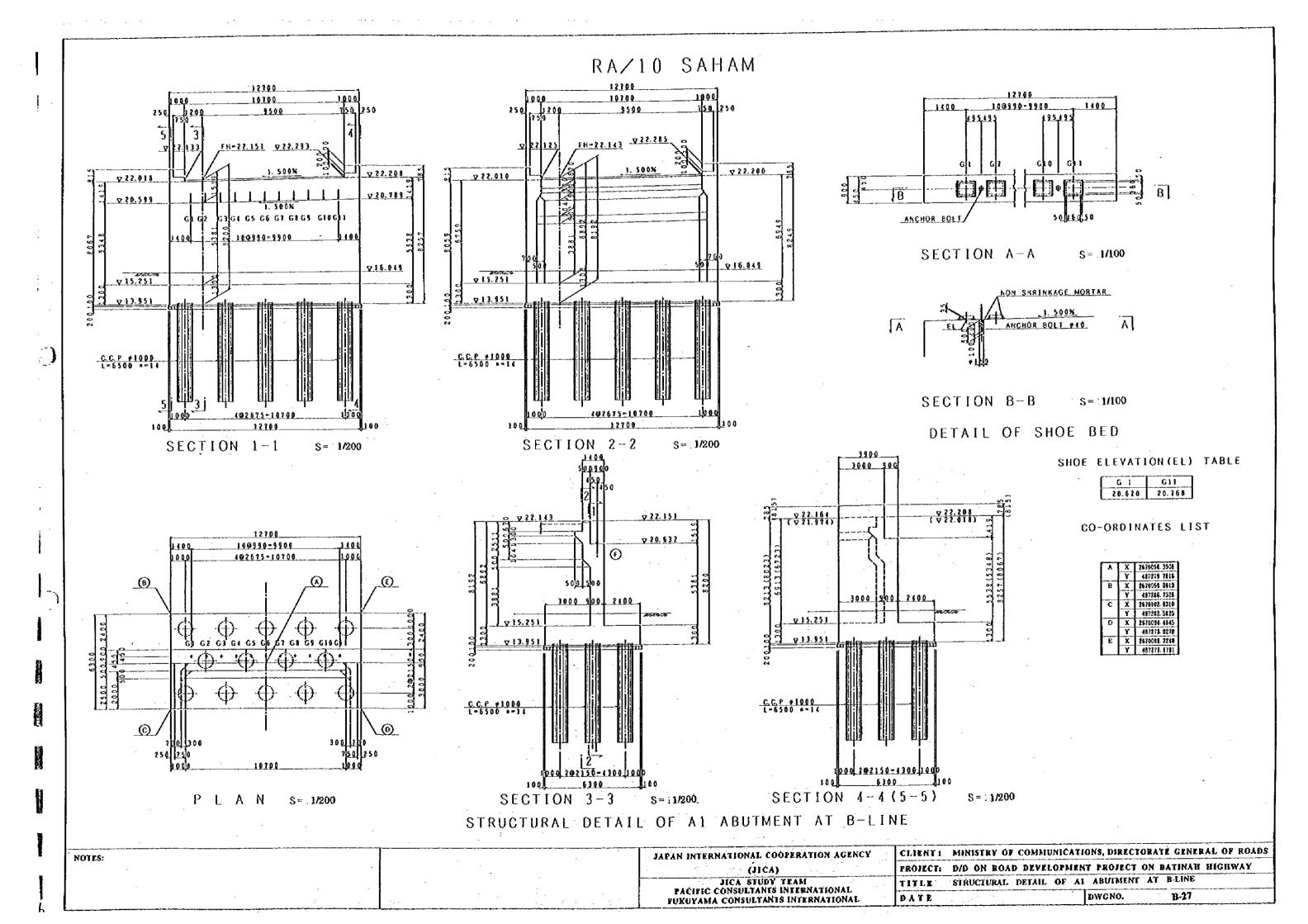
BRIDGE DRAINEGE DETAILS (SAHAM) DWG. NO.

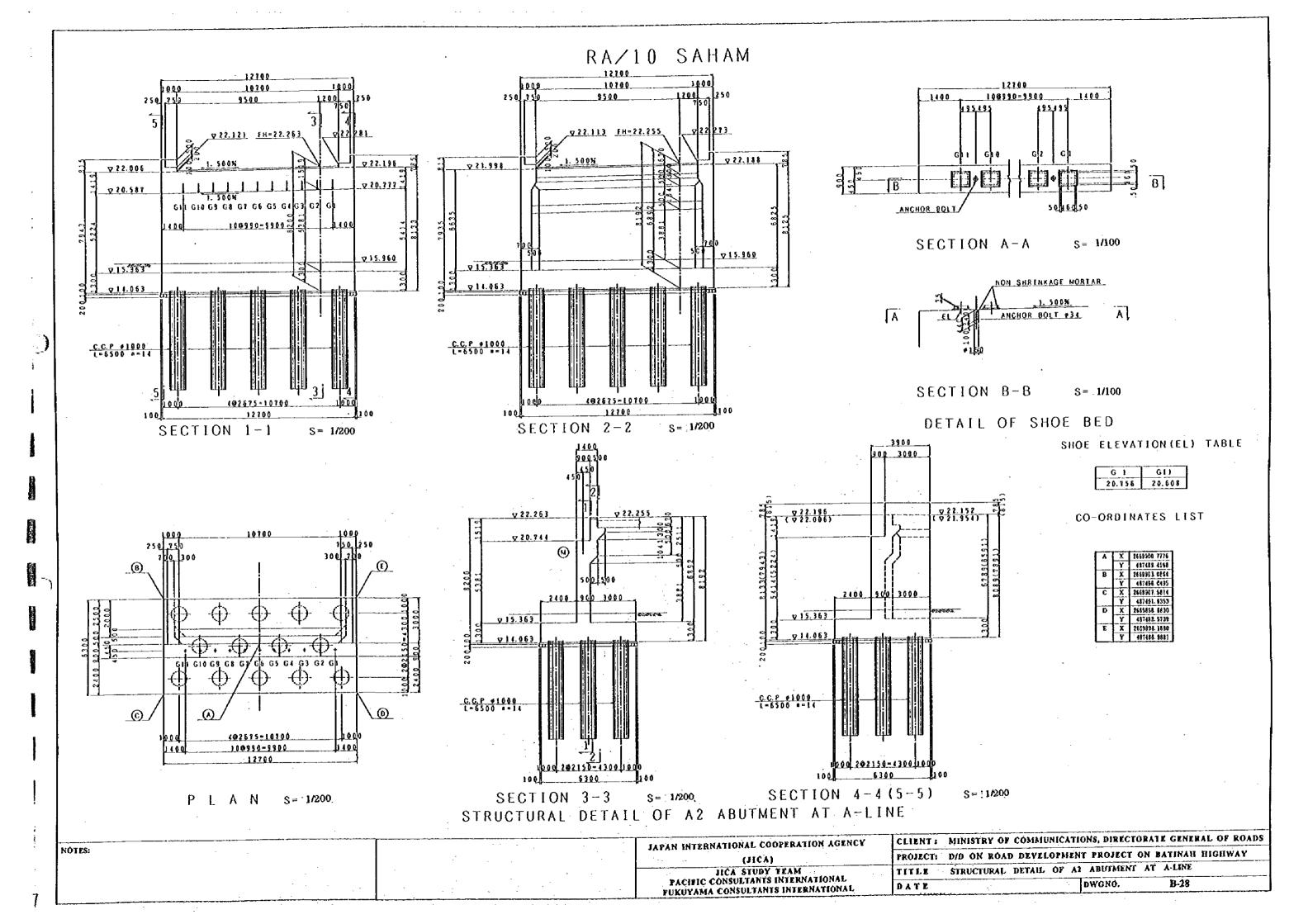
B-25

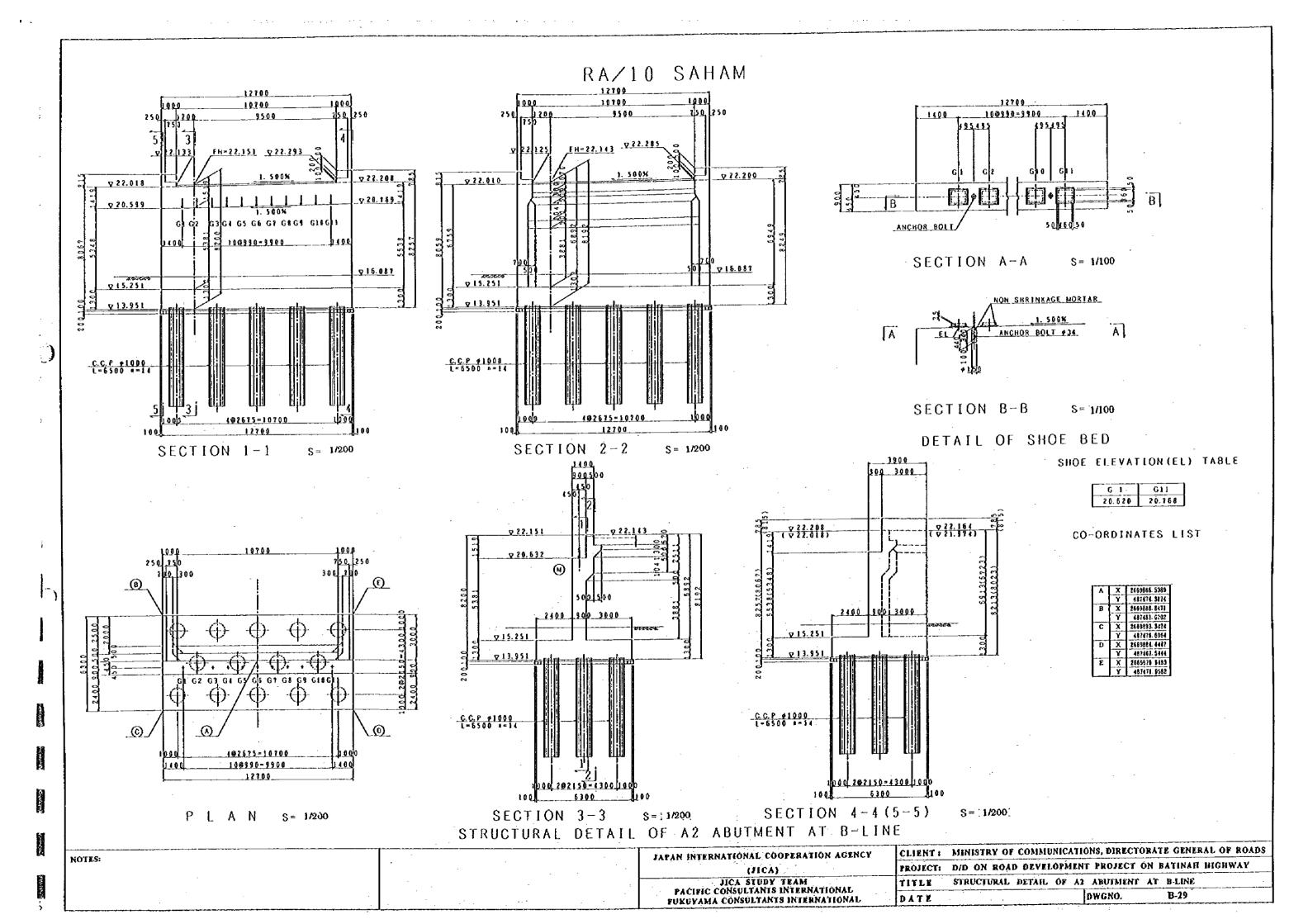
14-

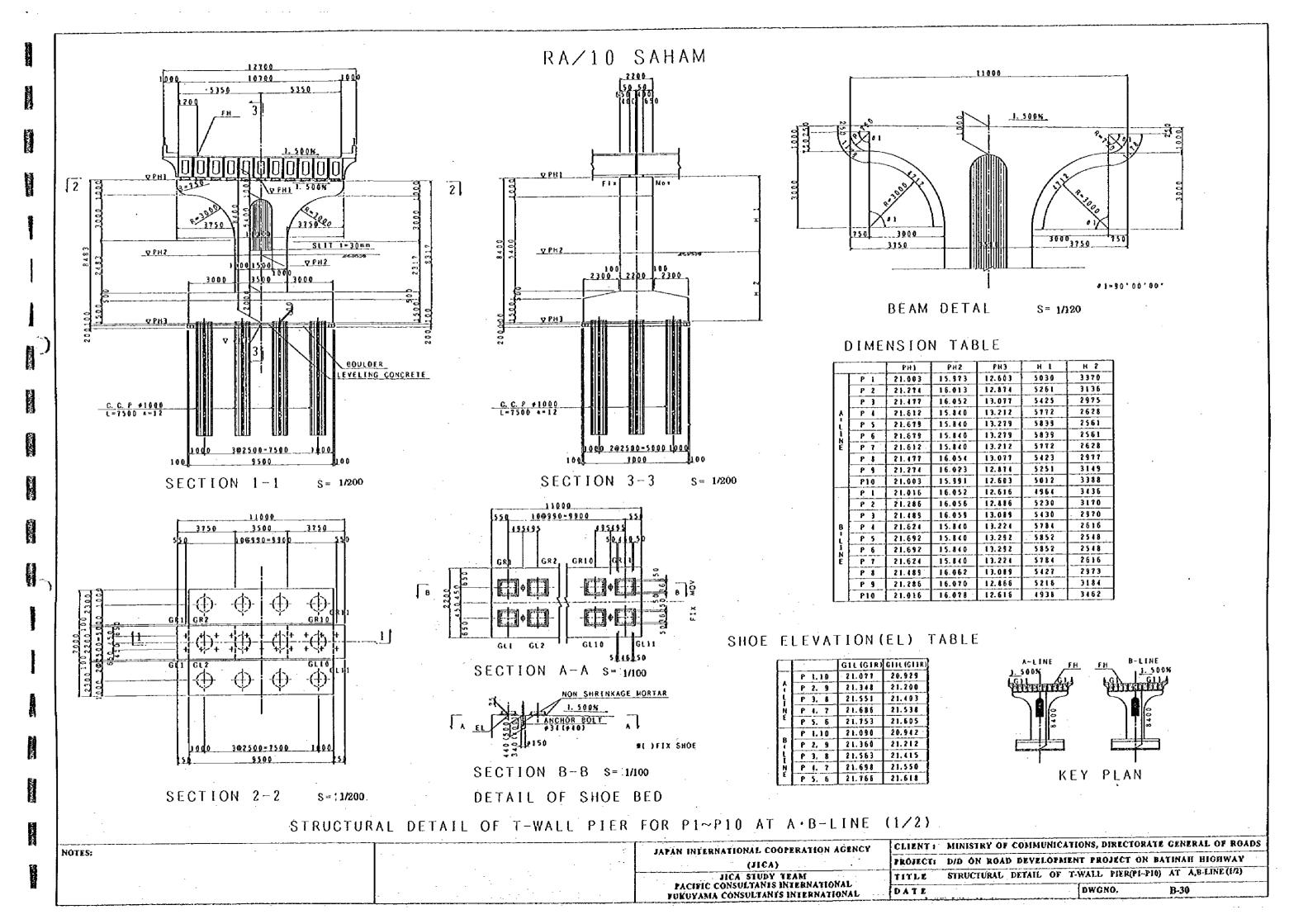
NOTES:

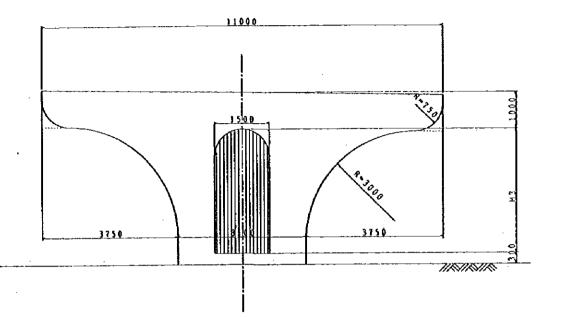








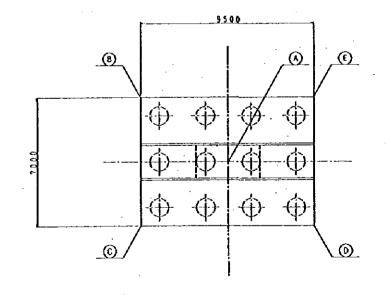




DIMENSION (H3) TABLE

	BKIJ-A	B-LINE
Pl	3130	3864
P 2	3961	3930
P 3	4125	4130
Pl	4472	1184
P 5	4539	4552
P 6	4535	4552
P 7	4472	4484
P 8	(123	4127
P 9	3551	3916
PIO	3112	3638

SLIT OF PLAN



FRAMING PLAN

CO-ORDINATES LIST

			A	8	C	D	۵
-	Pi	X	2670090-7800	2670091-3062	2670096 5488	2670090-2538	2670085.0112
		Y	487312 2962	487318 1729	487313.5345	487306. 4195	487311.0579
	P2	х	2470071.3684	2670071-9251	2670077.1436	2670070.8117	2679065 5932
		Y	487329 5608	487335. 4346	487330 7630	487323 6869	487328 3525
A.	P3	X	2670052 6468	2619952 6341	2670057.8282	2670051-4595	2670046 2654
		¥	487546 9261	487352.7969	487348 1043	487341-4551	487345 7476
ı, i	PI	X	2670032 8158	2670033-4336	2610038 6332	2670032-1980	2670027-0284
1		Y	487364 3916	487170.2593	487365.5397	487358 5238	487363 2434
	25	х	2670013 8758	2670014 3241	2670018 4651	2670013-0275	2670001. B825
Ł		Y	487361. 9569	481387. 8213	487383 0743	487376 0923	487380. 8388
1	Pi	X	2669954 8275	2669935. 3663	2610000 4265	2659993 \$487	2665988 8284
N		Y	487399 8214	427405. 4824	487400_7093	487393 7504	487395 5535
E	91	X	2569975 6719	2659976 3305	2689581.4759	2669974 5629	2669959 8656
		Y	487417. 3548	487423 2422	487418 4425	487411.5274	407()6. 3271
	28	X	2669956 8077	2669957. 5473	2659952-6177	2669958-0678	2669950 9976
		Y	487135. 2455	487441-1002	487436.2740	487429 3928	487438 2190
	PS	X	2669938 0371	2659938. 8073	2669943-8525	2669937. 2679	2669932 2218
		Y	487453.2061	487459 6558	487454.2934	487447. 3563	187452-2088
	Pjø	X	2689919.3633	2669920.1608	2669925 1807	2669918 5598	2669913 5399
	1	Y	481471.2630	487477 1087	487472-2301	457465-4174	487470-2959

- [٨	, B	C	D	E
-	Pi	X	2670076 8553	2670077. 3845	2610082-6272	2670076 3313	2670071. 0994
1	ł	Ÿ	487296. 9746	487302 8513	487294 2124	(3729) 0979	487295, 7366
1	172	X	2670057-4553	2670057. 9723	2670061 1905	2610056 8583	2670051 6401
В	ĺ	Ÿ	487514. 2638	481320 1426	487315 4768	487308 3949	447313 8607
1	P3	x	2670038-0623	2670038 6497	2670041 8431	2670637-4743	2610032 2809
1	1.	¥	487831. 6636	487337.5344	487332 8416	487325.7926	497338. 4855
1.	24	х	26790 8 7998	2670019 4176	2670024 5872	2670018 1818	2670013.0323
11	l	¥	487349. 1585	487353-0262	427350 3065	487343 7907	487349. 0184
4	P5	Х	2669999. 6282	2670000 2765	2670005. 4215	2669958 0799	2669593 8349
L	l	Ý	487364 7531	487372.6176	497361. 8711	487360 88P6	687365-6351
1	P6	X	2669980. 5482	261938). 2261	2569385 3472	2699979. 2695	2669914 7491
N		Y	487384. 4469	487390 3080	487385 5349	187378 5859	487383 8589
E	n	X	2669961-5602	2659962 2693	2669967. 3648	2669960. 8511	2669955. 7556
1	L	Y	687402. 2395	487403 8969	487403 2973	487336. 3820	427401-3616
1	P4	Х	2663342. 6648	2669943. 4042	2669948 4748	2669941. 9253	2669936. 8547
1	L .	٧	48T429_1303	487425, 9840	487421-1580	497414. 2768	487419 1025
1	PS	X	2669923 8624	2669924 6322	2663929. 6776	2669923 4925	2669918 8471
1	L	Y	487438-1589	487443 \$686	487499 1164	437432 2691	497437 1213
1	110	X	2659905. 1536	2669905 9597	2669910. 1739	2653904 3534	2669839 3332
1	ł	Y	487456 2048	487482 0504	187457.1721	487450.3590	497455. 2373

STRUCTURAL DETAIL OF T-WALL PIER FOR P1~P10 AT A B-LINE (2/2)

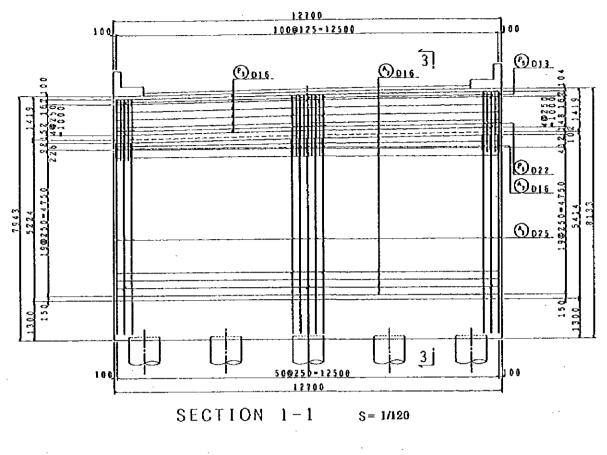
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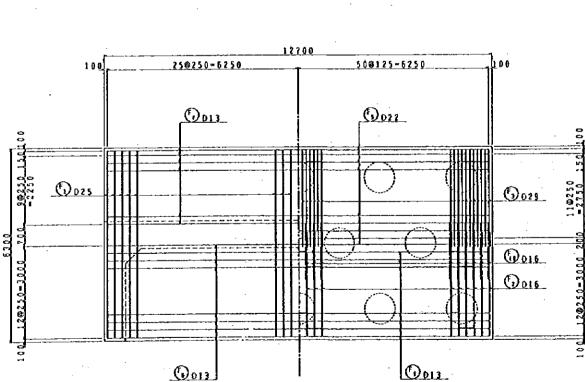
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
PUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAU HIGHWAY STRUCTURAL DETAIL OF T-WALL PIER(PI-PIO) AT A,B-LINE (271)

TITLE

DWGNO.

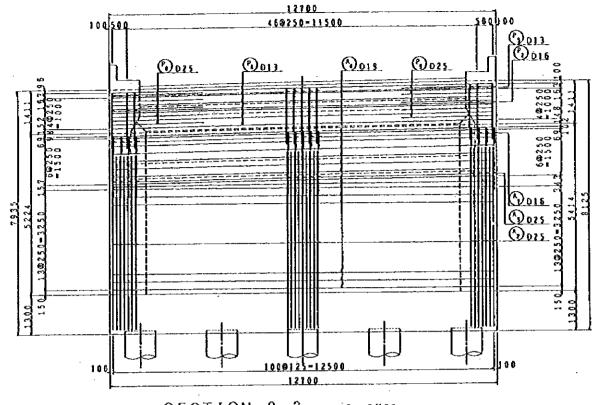




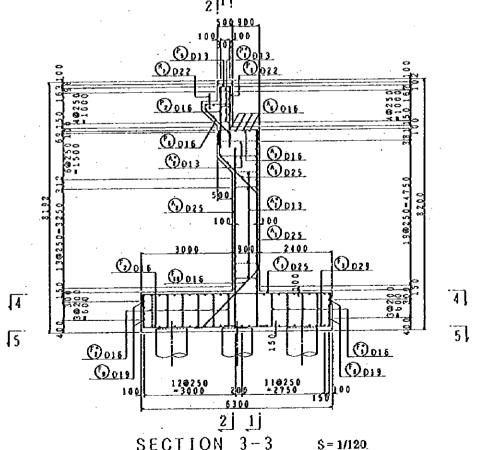
SECTION 4-4 S= 1/120

NOTES:

SECTION 5-5 S= 1/120



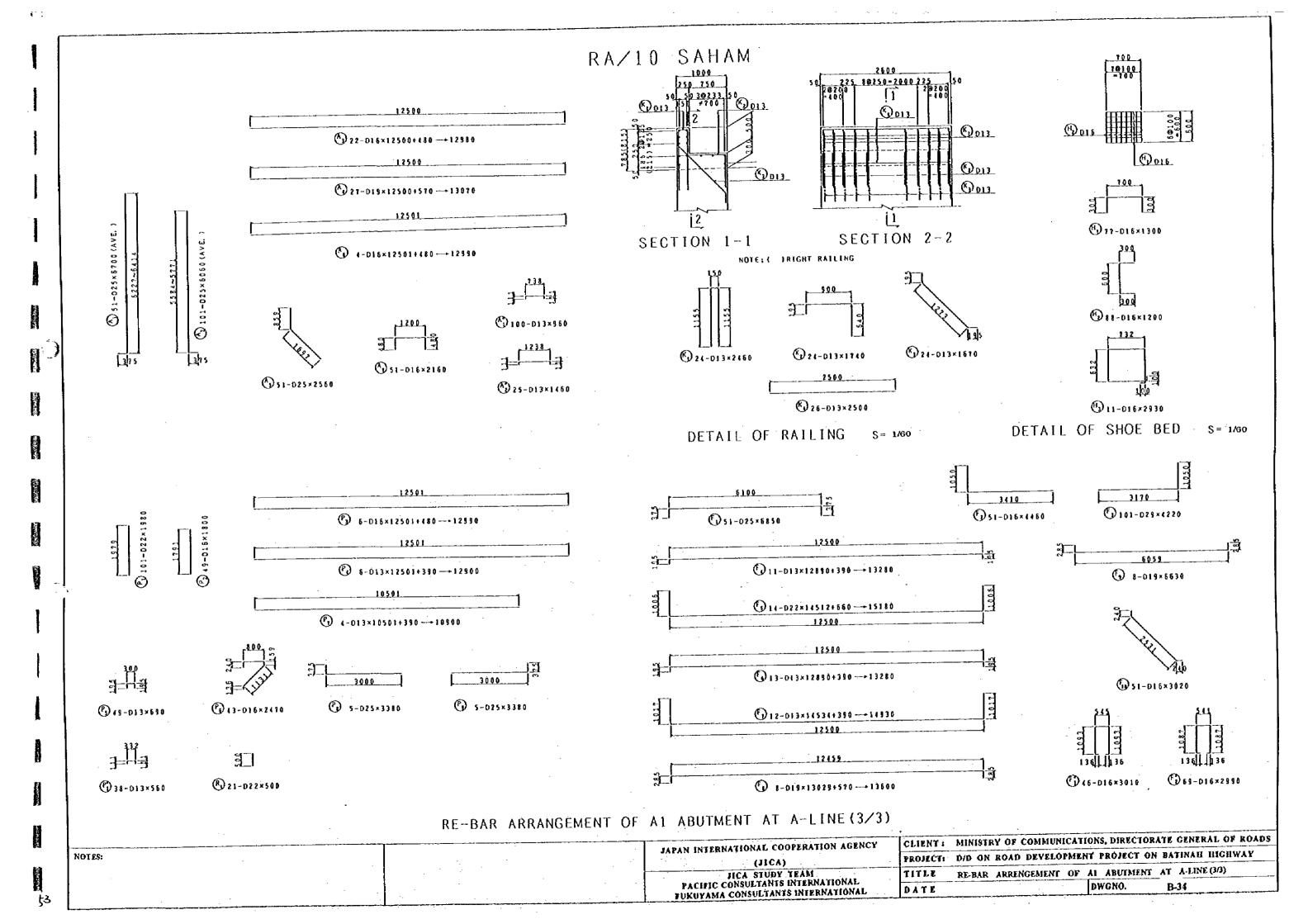
SECTION 2-2 S= 1/120

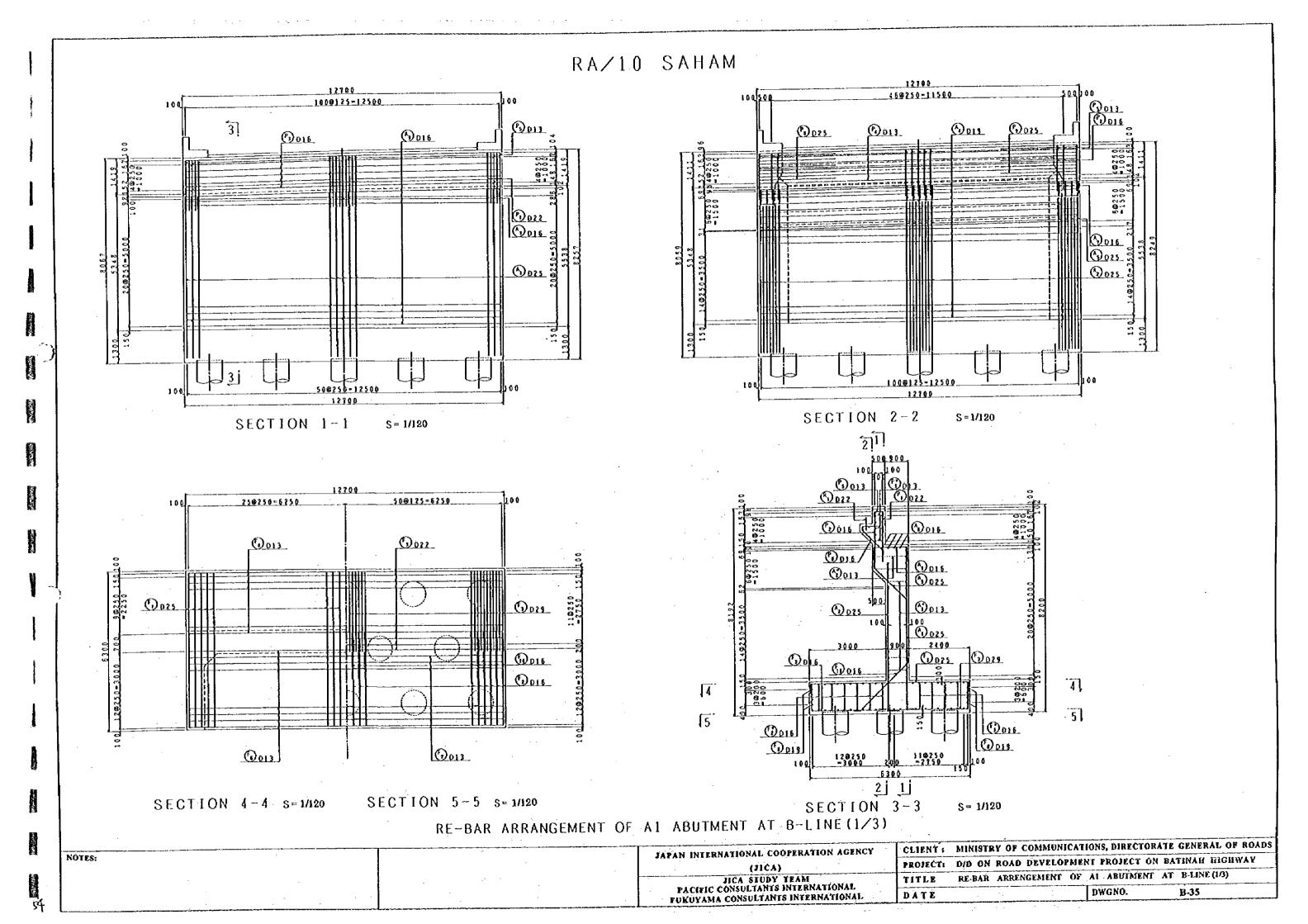


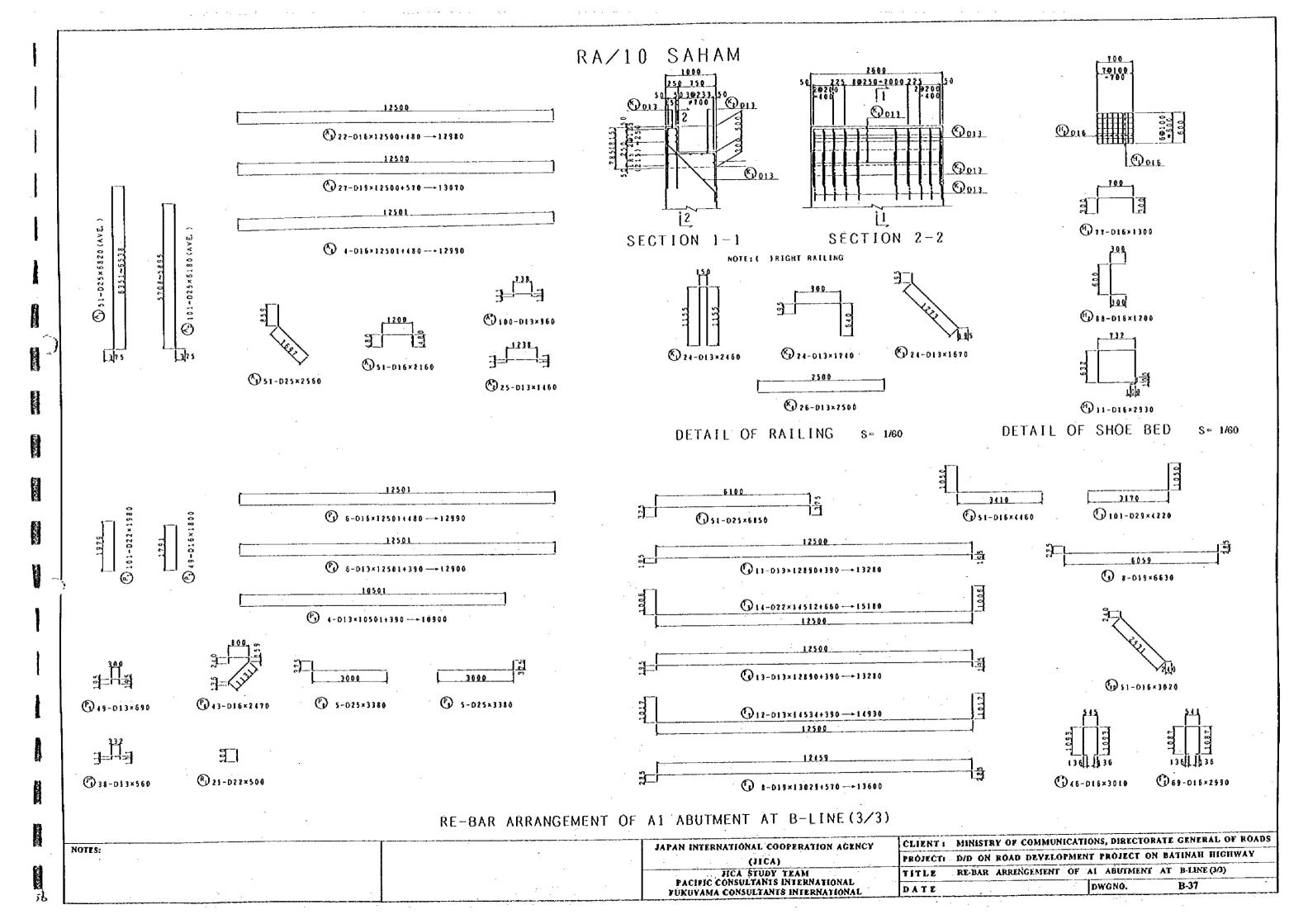
SECTION 3-3

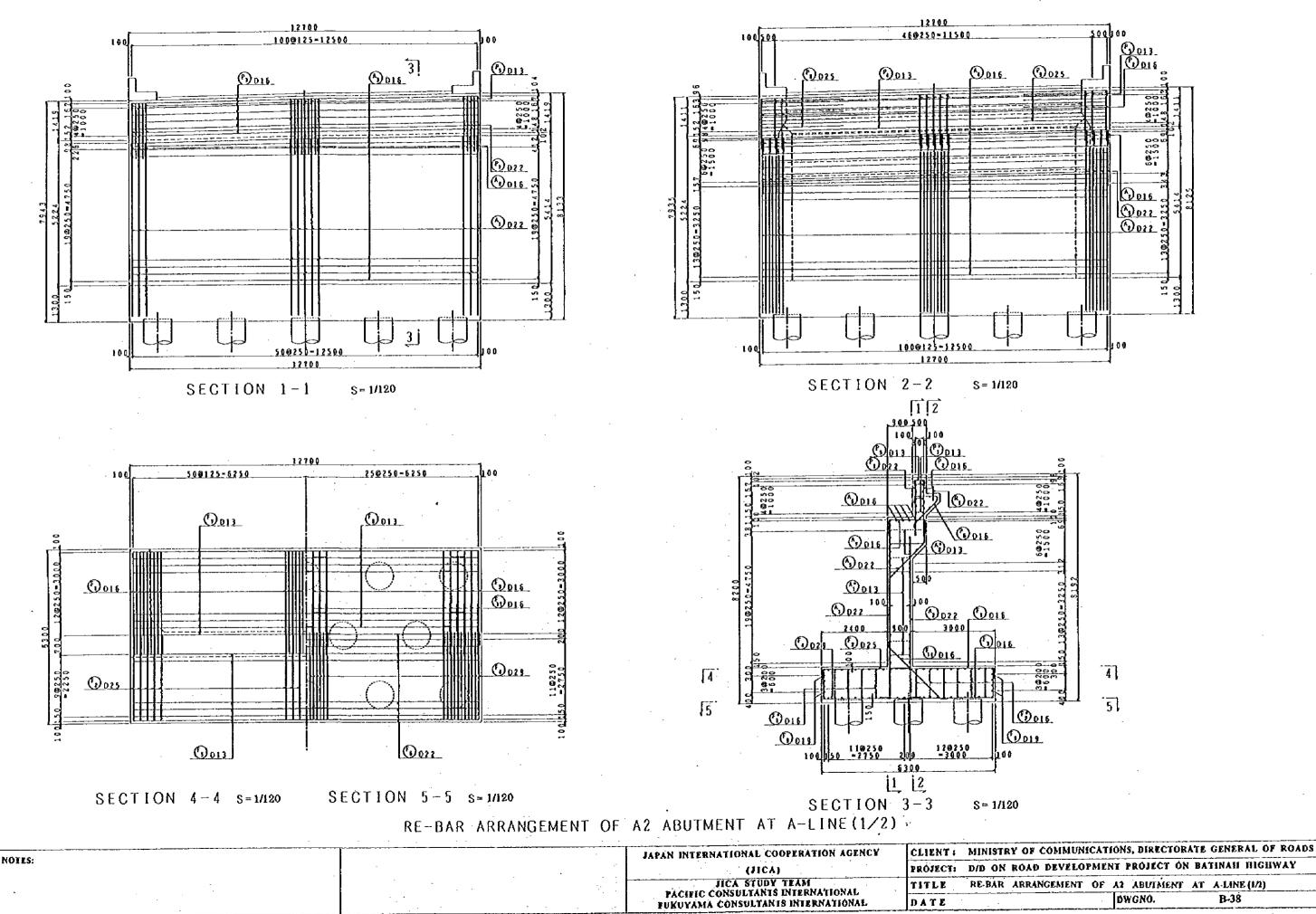
RE-BAR ARRANGEMENT OF A1 ABUTMENT AT A-LINE (1/3)

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS JAPAN INTERNATIONAL COOPERATION AGENCY D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY PROJECT: (JICA) PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL RE-BAR ARRENGEMENT OF A1 ABUTMENT AT A-LINE (1/3) TITLE DWGNO. B-32 DATE





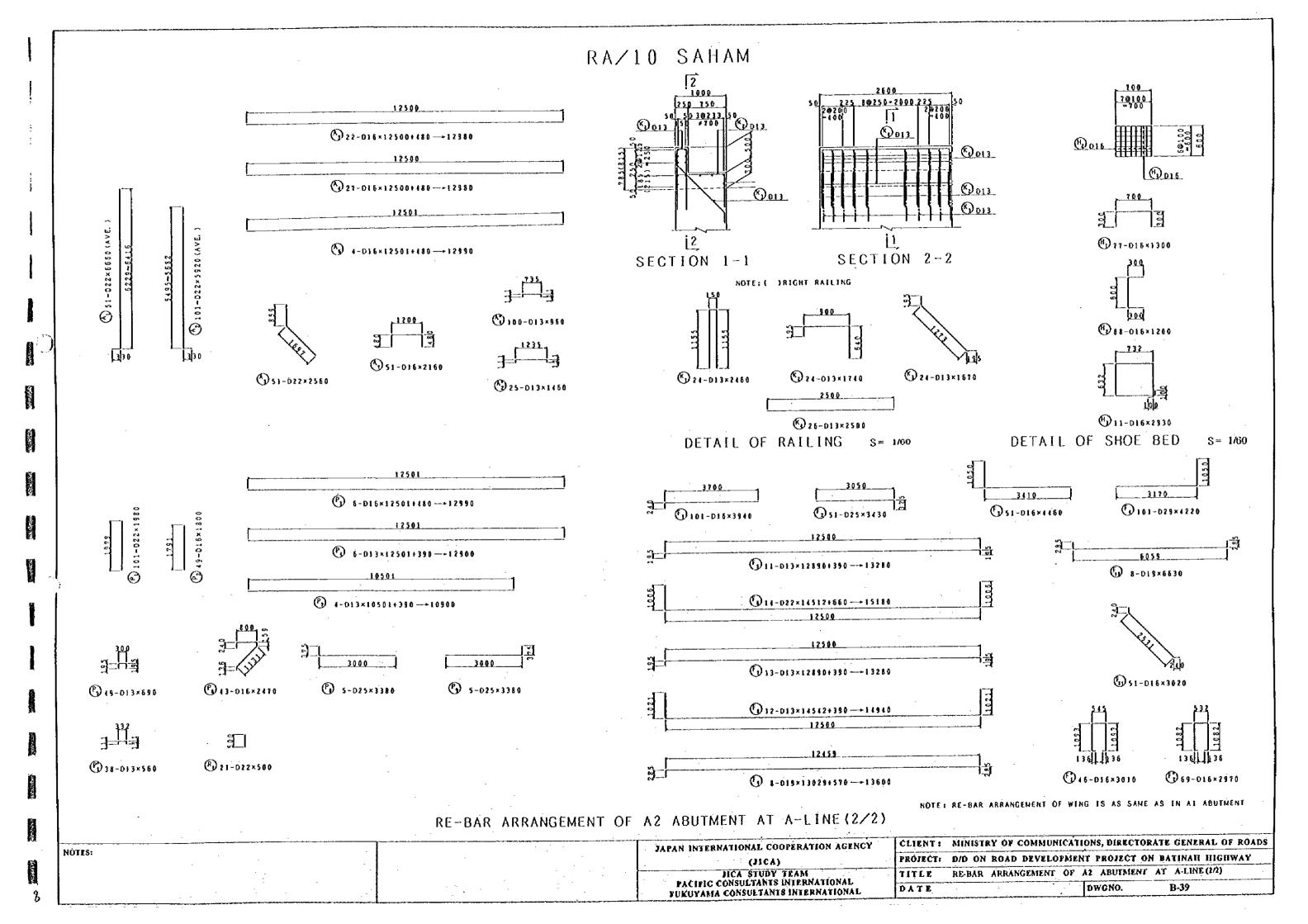


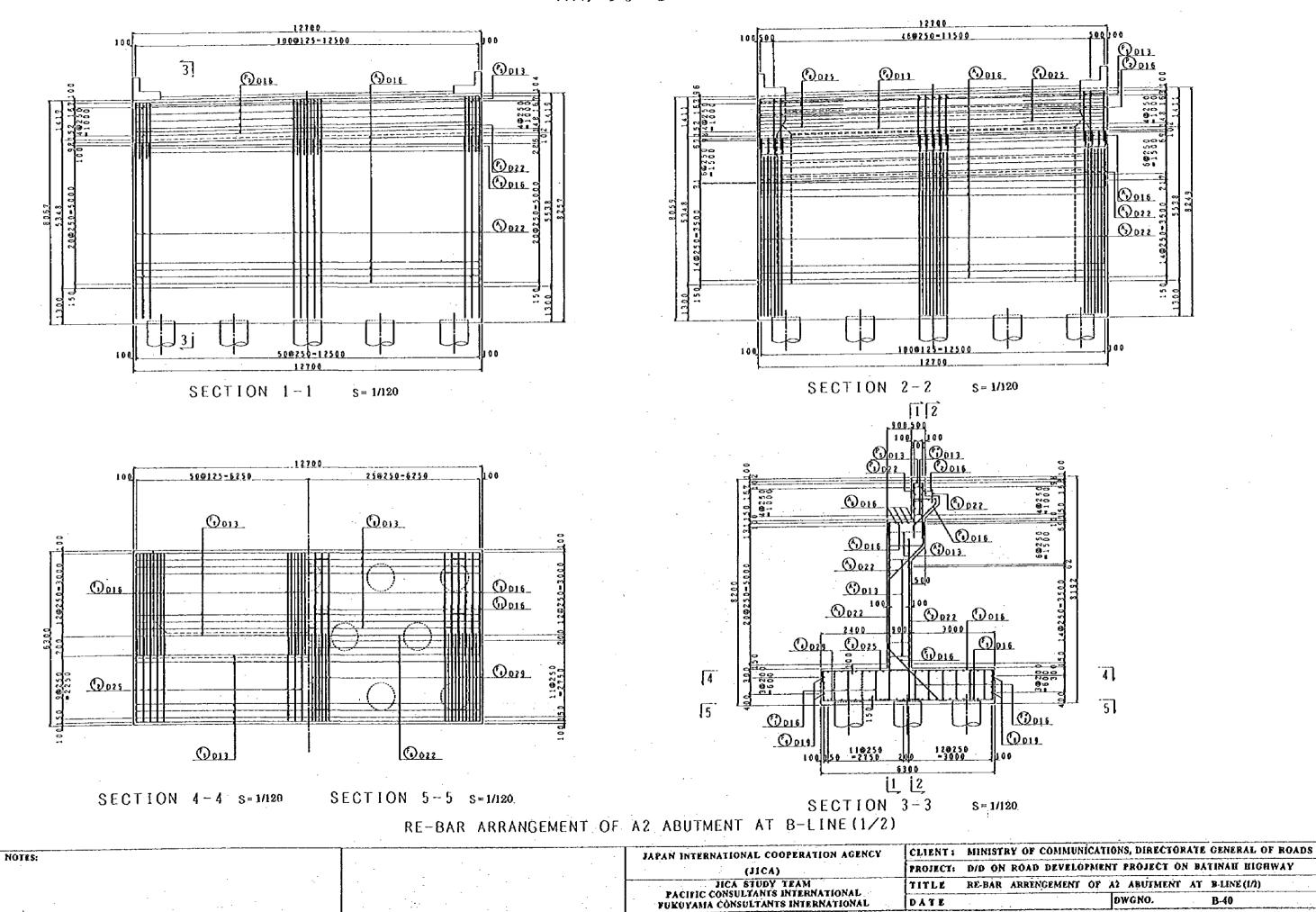


TITLE

DATE

REBAR ARRANGEMENT OF A2 ABUTMENT AT A-LINE (1/2)

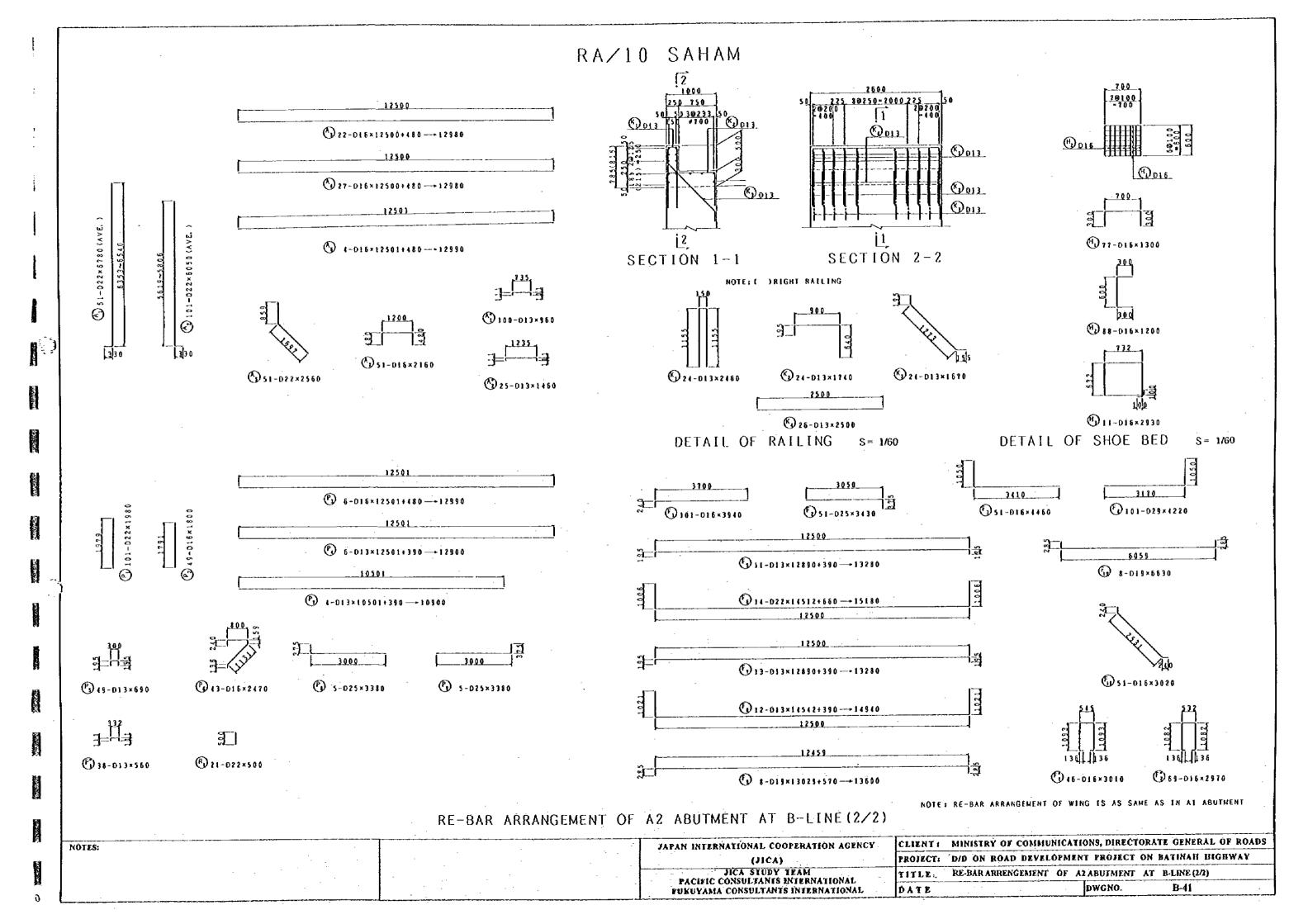


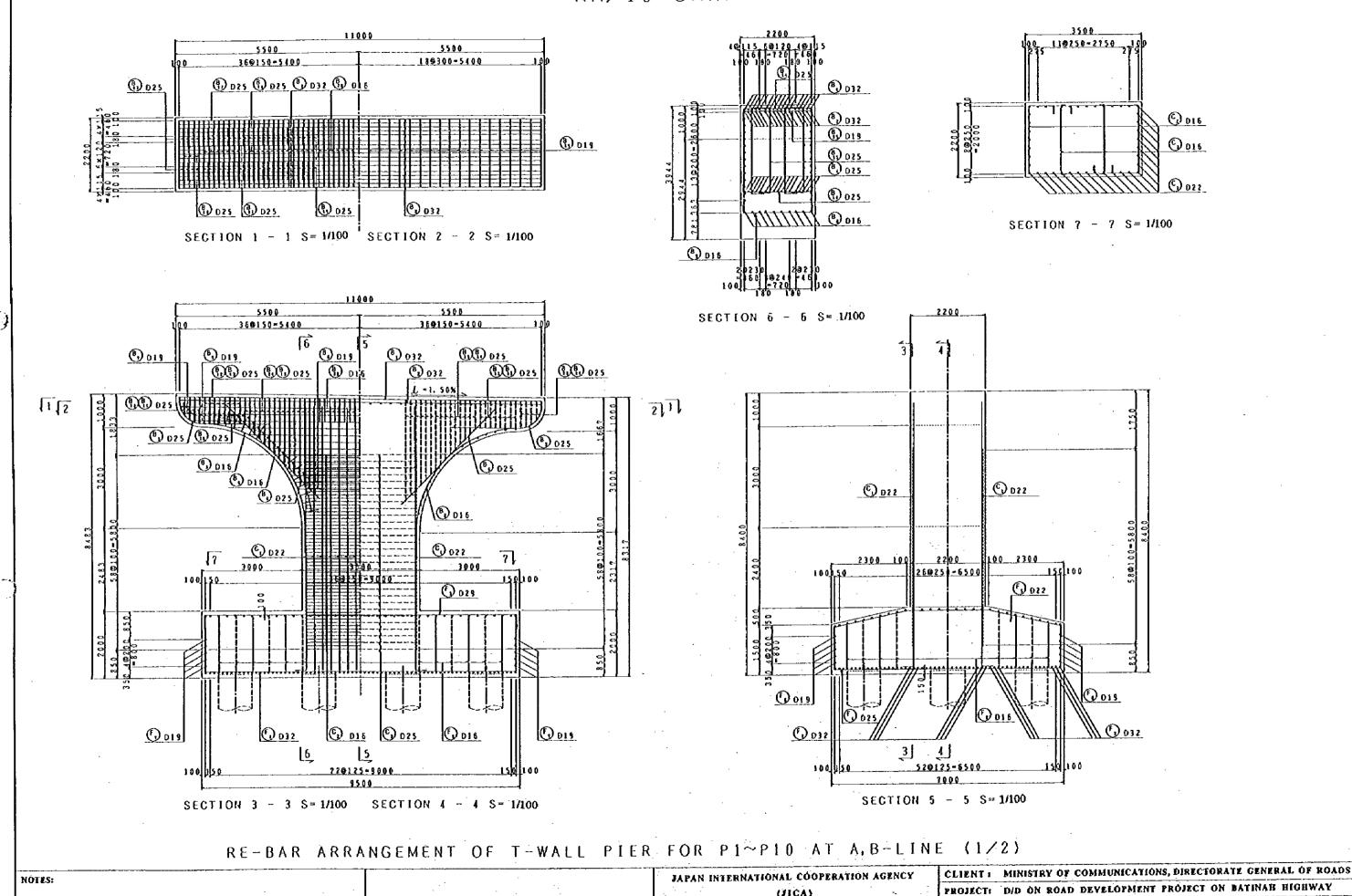


DWGNO.

DATE

B-40





(JICA)

TITLE

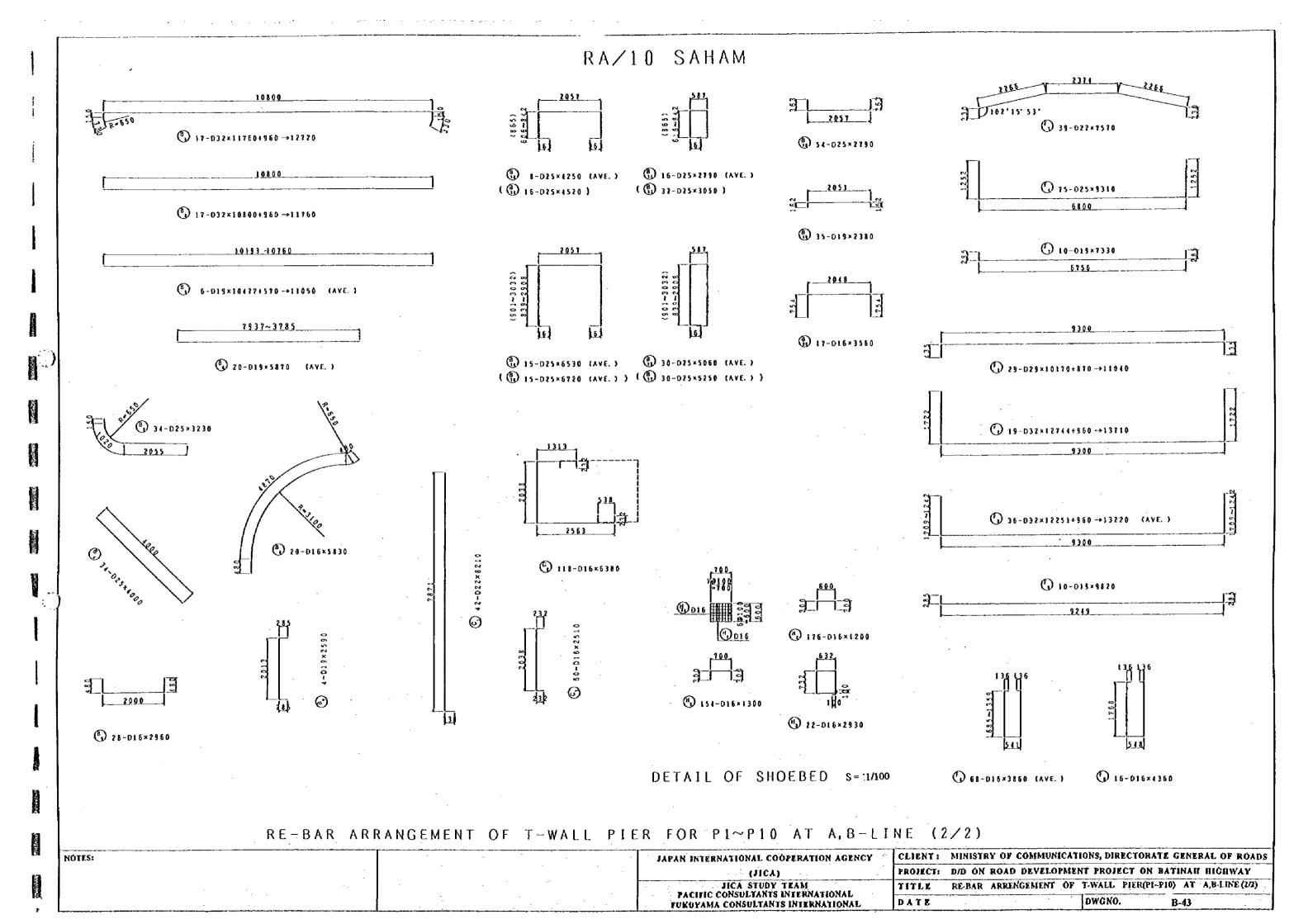
DATE

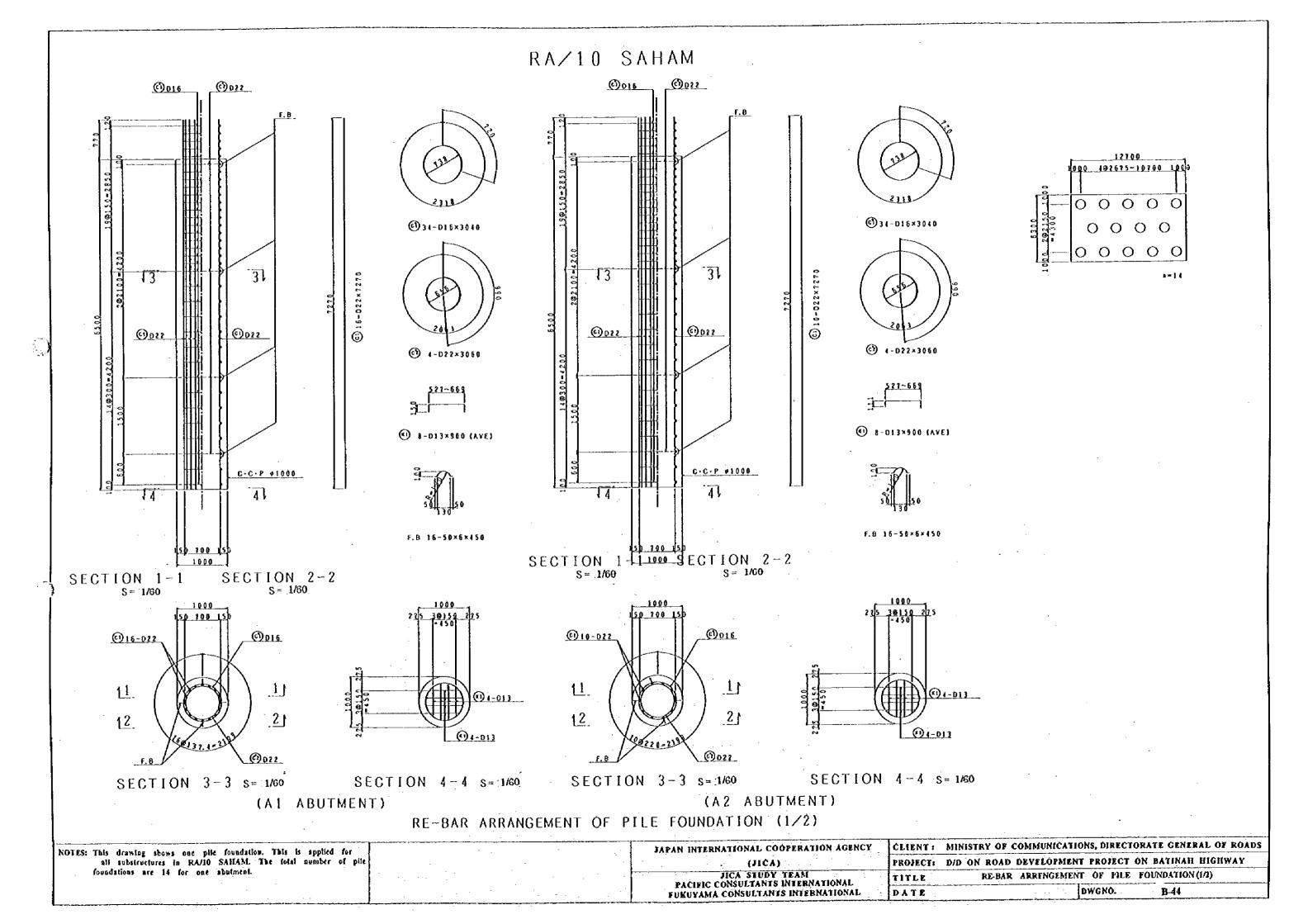
FICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
PUKUYAMA CONSULTANTS INTERNATIONAL

RE-BAR ARRENGEMENT OF T-WALL PIER(P1-P10) AT A,B-LINE (1/2)

DWONO.

B-42

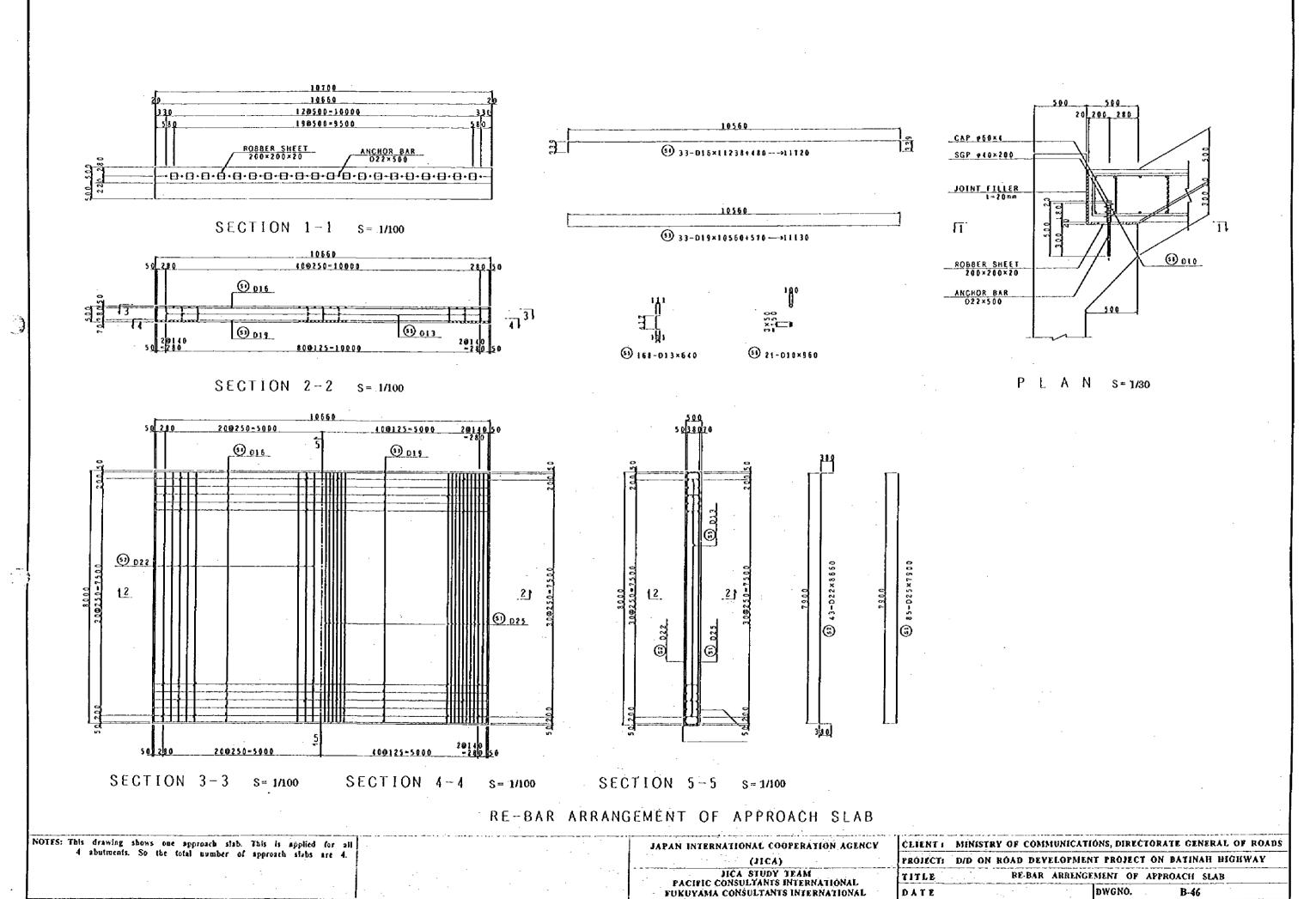




0000 0000

RE-BAR ARRANGEMENT OF PILE FOUNDATION (2/2)

NOTES: This drawing shows one pile foundation. This is applied for	· · ·	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
all substructures in RAMO SAHAM. The foint number of pile foundations are 12 for one pier.		(XICA)		D/D ON ROAD DEVELOPMENT PROJECT ON BATINAK HIGHWAY
Toundations are as to the pict,		JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL	TITLE	RE-BAR ARRANGEMENT OF PILE FOUNDATION (2/1)
		PURUYAMA CONSULTANTS INTERNATIONAL	DATE	DWGNO. B-45



BAR BENDING DIAGRAM

LAP JOINT LENGTH

ø	•	LAP JOINT LENGTH
013	390	
018	480	
018	570	1
D22	560	
Ď25	750	
028	810	
032	360	

	JA1	PAN	NANO		
-	CROSS- SECTIONAL ARER (tm*)	(FI\#) WEIGHT NOMINAL	CROSS- SECTIONAL ARER (cm*)	NOMINAL WEIGHT (kk/m)	
013	1,267	0,595	1.290	0.394	
016	1,986	1.56	2.000	1.552	
019	2,855	7.25	2.139	2.235	
022	3.871	3.01	3.811	3.012	
025	5.067	3.98	5.097	3.913	
029	6.424	5,01	5.452	5.059	
032	7.542	6.23	8.194	5.403	

BENDING DIMENSION (MAIN REINFORCEMENT)

Đ ¢	(5≤\$0° R=3¢	6>90° R=5.5¢	HOOK LENGTH
013	. 39	71.5	
016	4.8	8.8	la la
013	5.7	104.5	\$\frac{1}{2} [2:3:4
022	5.6	121	
025	7 5	137.5	~ (1)
023	81	159.5	-
Ó32	96	178	R= r + #/2

BENDIN DIMENSION (STIRRUP, ERECTION BAR)

ſ	I	a = 9 0.	8=45'		HOOK LENGTH	
ŕ	R=2.5#	1	-	STIRRUP	ERECTION BAR	H00P
013 015 013	32,5 40 47,5	51 63 15	77 94 112	· · · · · · · · · · · · · · · · · · ·	1=2.0¢	1-2.0¢ 8-45 8-119/2

JAPAN INTERNATIONAL COOPERATION AGENCY

(FICA)

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

TITLE BAR BENDING DIAGRAM

DATE

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

TITLE BAR BENDING DIAGRAM

DWGNO. B-47