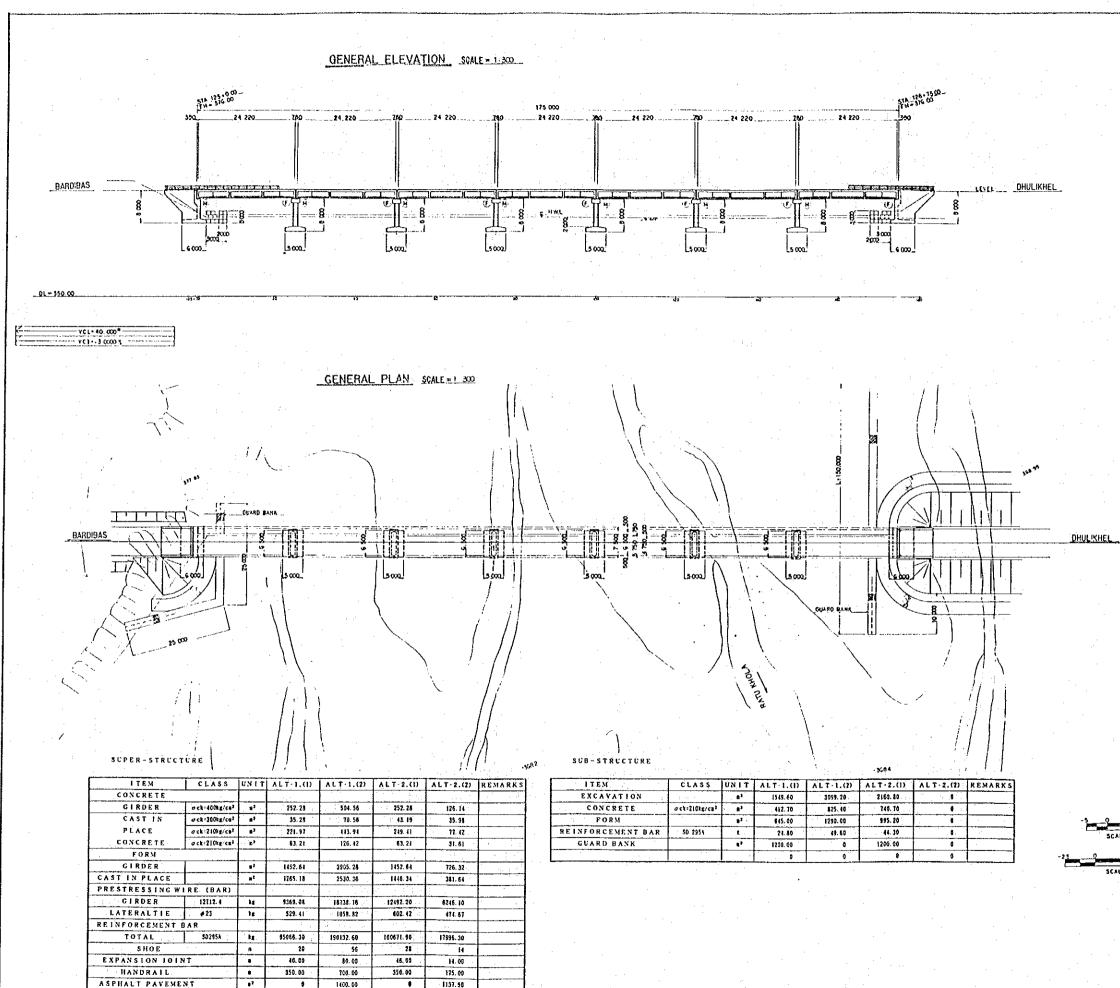


			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
ITEM	CLASS	UNIT	ALT 1.(1)	ALT-1.(2)	ALT-2.(1)	ALT-2.(2)	REMARKS
EXCAVATION		Q2	475.60	\$51.20	\$18.00	\$	1
CONCRETE	a ct : 2101g/ca2	87	128.80	257.60	193.30	4	
FORM		11	226.50	453.00	314.00	+	
REINFORCEMENT BAR	\$0 2954	1	7.70	15.40	11.50	•	
CUARD BANK		61		· •	· · · 0	•	· · · · ·
		· · · · · · · · · · · · · · · · · · ·					

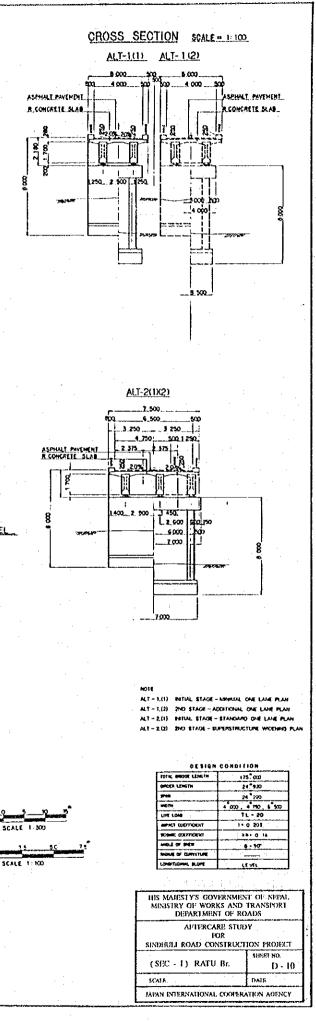


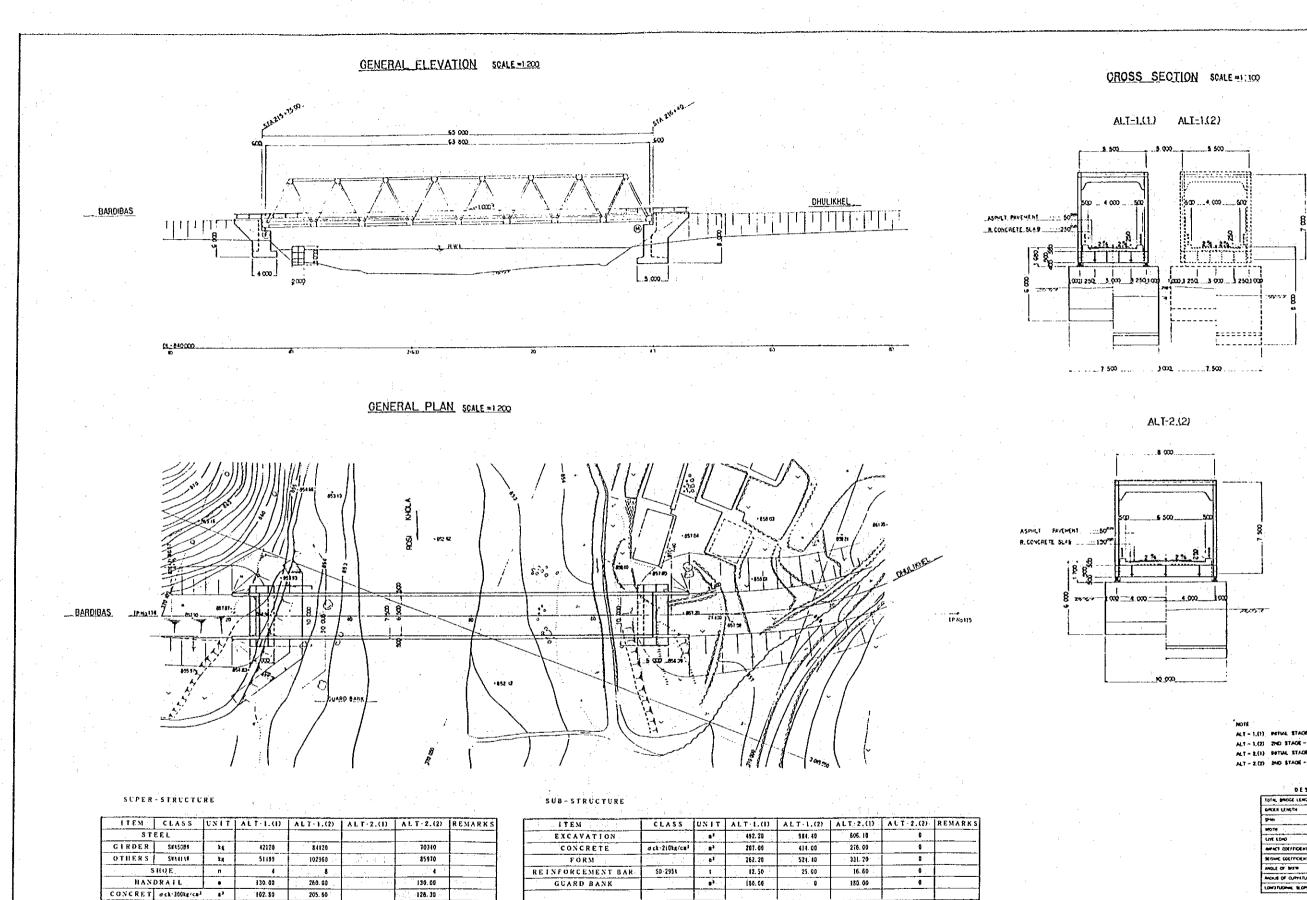
•1 1400.00 .

-

1137.50

.





* REINFORCEMENT BAR --- 25014 4

532.00

422.50

15.00

FORM

ASPHALT PAVEMEN at

EXPANSION JOIN .

. ∎₹

394.00

10.00

0

.788.60

520.00

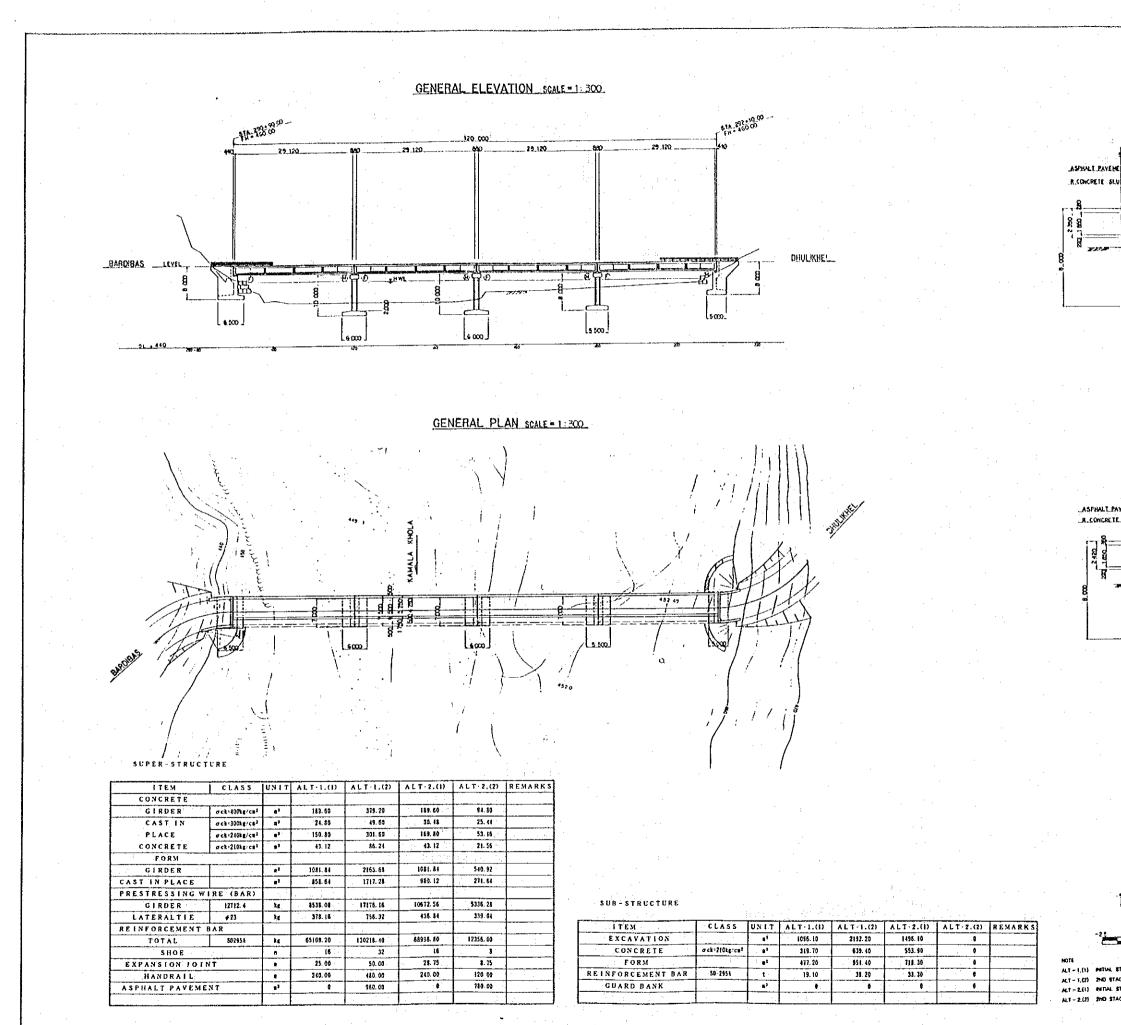
20.00

100

	and the second
	INTUL STACE-SHARAL ONE LANE PLAN
	THE STACE - ADDITIONAL ONE LAHE PLAN
	SHITML STADE - STANDARD CHE LAME PLAN
MT ~ 2(2)	2ND STADE - SUPERETRUCTURE WIDENING PLAN

Inthe BROGE LENGTH	65 000
SPACER LENGTH	54 800
5-M	93_800
NOTH	4 000 4 710 6 6 00
ENE LOND	TL - 20
MART COLFFICENT	1.0176
WANE COLUMNENT	AN+ Q 14
MOLE OF MEN	0 · · · · · · ·
MOUS OF CURVETURE	
LON'S TUDINE 1LOPE	11.1 0000 1

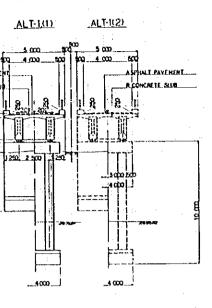
	HIS MAJESTY'S GOVERNME MINISTRY OF WORKS AND DEPARTMENT OF R	TRANSPORT		
c	AFTERCARE STUDY POR SINDHULI ROAD CONSTRUCTION PROJEC			
	(SEC H-3) ROSI Br.	SHEET NO. D - 11		
	SCALE	DATE		
	IAPAN INTERNATIONAL COOPER	ATION ADENCY		

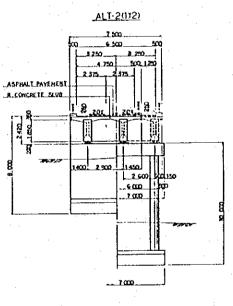


8

ALT - 1.(1) INTUK STADE - MANAUL ONE LANE PLAN ALT - 1,27 2ND STAGE - ADDITIONAL ONE LANE PLAN ALT - 2(1) HETAL STADE - STANDARD ONE LANE PLAN ALT - 2.(2) 2ND STADE - BUPERSTRUCTURE WORKING PLAN

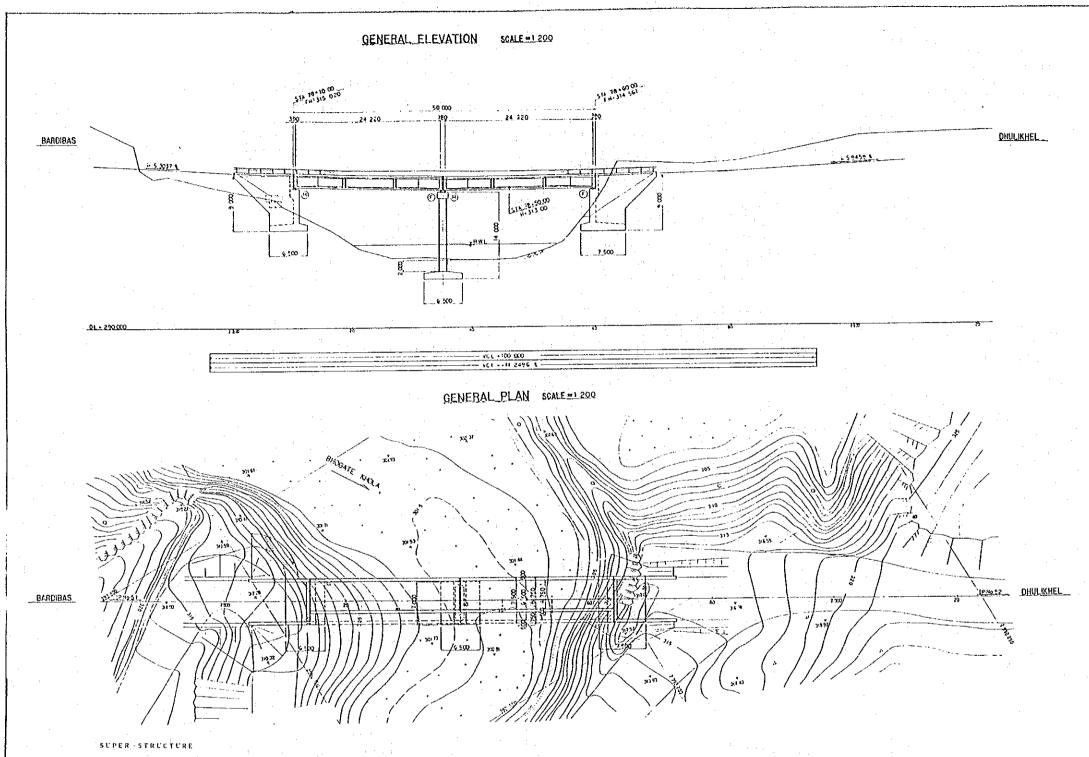






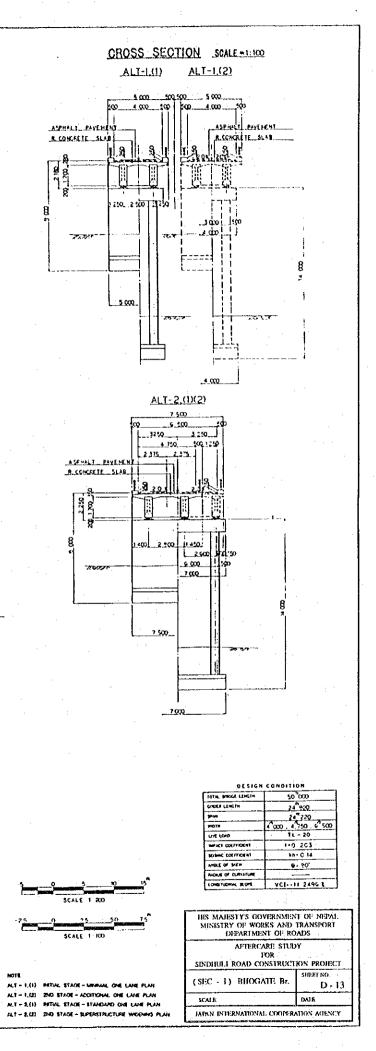
DESIGN	CONDITION
TOTAL BACCE LENGTH	120*000
SPIDER LENGTH	29 920
3040	25 120
and La	4 (00); 1 750 6 900
UNE LONG	TL-20
MANCE CODITIONAL	1+ 0 185
HOMME COLUTIONI	48+Q 14
WHELE OF SHEW	• +C
NOTAL OF CURRENTS	
LONGTOING BOT	LEVEL
	· · · · · · · · · · · · · · · · · · ·
MINISTRY OF WOR	VERNMENT OF NEPAL KS AND TRANSPORT NT OF ROADS
ī	ARE STUDY OR INSTRUCTION PROJECT
(SEC - 1) KAMA	LA Br. D - 12
SCALE	DAIF.
JAPAN INTERNÁTIONA	L COOPERATION AGENCY
· ·	

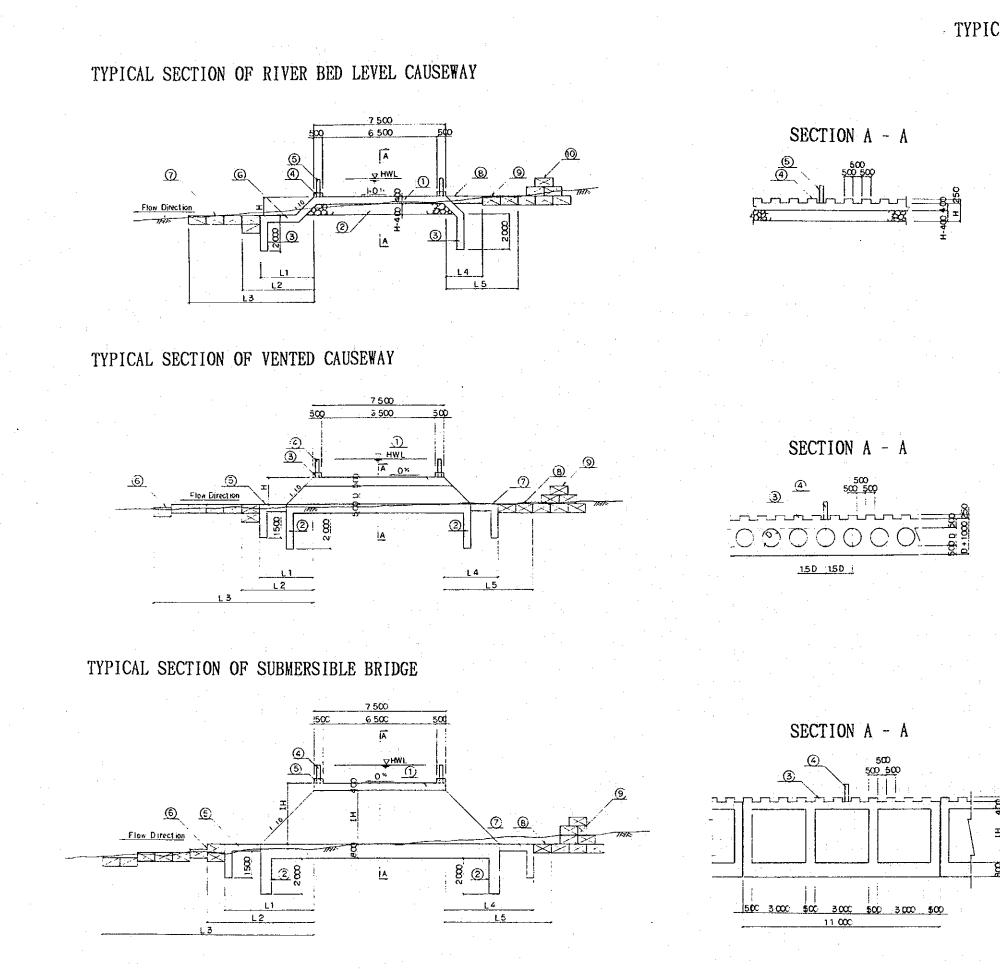




· · ·	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1	· · · · · · · · · · · · · · · · · · ·	:		
t t e m	CLASS	UNIT	ALT-1.(1)	ALT.1.(2)	ALT-2.(1)	ALT 2.(2)	REMARKS
CONCRETE		1 .					
GIRDER	o ck 100kg.cs	•'	72.08	144.16	72.08	36.04	
CASTIN	oct 300te cat	1 2	10.08	20.15	12.34	10.25	· · ·
PLACE	ock 210kg cs1		\$3.42	126.34	71.26	22.12	
CONCRETE	och 210kg cal	•1	13.05	36.12	18.06	9.03	
FORM	• • • •	· .	· · ·	1	i i den	94 g	
GIRDER		\$ ²	415.04	830.08	.415.01	207. 52	
CAST IN PLACE	1		-361.45	722.98	413.24	109.04	
PRESTRESSING W	IRE (BAR)				a chair an		
GIRDER	12112.4	Xc	2676. 88	5353. 76	3569.20	\$784.60	
LATERALTIE	#23	34	151.26	302.52	172.17	135.62	· ·
REINFORCEMENT	BAR		11.	1			:
TOTAL	502951	Ξų.	27161.80	54323.60	28763. 40	11832.00	:
\$1108		: n	· . 8	١٤	8		
EXPANSION JOI	NT	• •	15.90	30.09	17.25	5.25	
HANDRALL		•	100.00	200.00	100.00	50.00	· · · ·
ASPHALT PAVEME	ENT T	# ²	0	460.00	0	325.00	
				1		· · · · · · · · · · · · · · · · · · ·	

SUB-STRUCTURE	n in statu Nganalim		۰ ۲۰ ۲۰				
ITEM	CLASS	UNIT	ALT-1.()	ALT-1.(2)	ALT-2.(1)	AL. T - 2. (2)	REMARKS
EXCAVATION			718.70	1437.40	558-40	0	
CONCRETE	ock:210kg 'ca'		227. 10	454.20	376. 79	0	
FORM		•?	138_30	\$76.50	498.00	0	
REINFORCEMENT BAR	SD-2954	1	13.60	27.20	22.50	e	
GUARD BANK		1.1	Q	0		•	:
			· · · ·				





TYPICAL SECTION OF CAUSEWAY SCALE 1:100

NOTES

U)	40cm thickness concrete surfacing, grade=180kg/cm* with re-bar by D13 ctc 300mm
0	30cm random rubble masonry set in concrete, grade=180kg/cm ²
3	Cut-off-wall by reinforced concrete (h=2.0m, t=40cm)
1	Concrete curb 1=500mm, h=250mm @1.0m
6	Reinforced concrete delineators 010.0m
6	Down stream apron
	L1=0.60+4√H, t=40cm
	Down stream river bed protection, gabion mattress
	L2=0. 30*4√ H¥q, T=1. 0m
	L3=0. 63*4/ ⁻ N*q. T=0. 5m
8	Up stream apron
	L4=L1/2, t=40cm
9	Up stream river bed protection, gabion mattress
	L5=L3/2, T=0. 5m
0	Checkdam, gabion mattress Tmax=2.0m on river bed protection
11	Apron concrete, grade 180kg/cm ² with re-bar by D13 ctc 300mm
12	"q" means run-off discharge per a liner meter(m ² /sec).
13	River bed protection and checkdam shall be provided only on main water course.
14	Minimum concrete cover to re-bar 5cm.

NOTES

- Concrete grade=180kg/cm² with re-bar by D13
 Cut-off-wall by reinforced concrete (h=2.0m, t=40cm)
 Concrete curb 1=500mm, h=250mm 01.0m
 Reinforced concrete delineators 010.0m

- ⑤ Down stream apron
- L1=0.60*4√H. t=40cm

(6) Down stream river bed protection, gabion mattress L2=0. 30*4/TH*q, T=1. 0m

- 1.3=0.63*4√ H*q. T=0.5m
- ⑦ Up stream apron
- L4=L1, t=40cm

- L4=L1, t=40cm (B) Up stream river bed protection, gabion mattress L5=L3/2, T=0.5m (B) Checkdam, gabion mattress Tmax=2.0m on river bed protection 10 Apron concrete, grade 180kg/cm² with re-bar by D13 ctc 300mm 11 Vent diameter is either 1.0m or 1.5m, depending on run off discharge. 12 This type of causeray is applicable to principal stream.

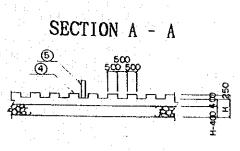
- 13 "q" means run-off discharge per a liner meter(m*/sec).
 14 River bed protection and checkdam shall be provided only on main water course. 15 Minimum concrete cover to re-bar 5cm.

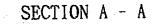
NOT	
1101	

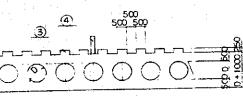
- Concrete grade=240kg/cm² with reinforced bar.
 Cut-off-wall by reinforced concrete (h=2.0m, t=60cm)
 Concrete curb 1=500mm, h=250mm @1.0m
 Reinforced concrete delineators @10.0m

- (5) Down stream apron
- (5) Down stream apron L1=0.60*4√T, t=40cm
 (6) Down stream river bed protection, gabion mattress L2=0.30*4√T#47, T=1.0m L3=0.63*4√T#47, T=0.5m
- (7) Up stream apron
- L4=L1, t=40cm
- (8) Up stream river bed protection, gabion mattress L5=L3/2, T=0. 5m
- (9) Checkdam, gabion mattress Tmax=2. Om on river bed protection
- 10 Apron concrete grade 180kg/cm² with re-bar by D13 ctc 300mm 11 "q" means run-off discharge per a liner meter(m³/sec).
- 12 River bed protection and checkdam shall be provided only on main water course. 13 Minimum concrete cover to re-bar 5cm.

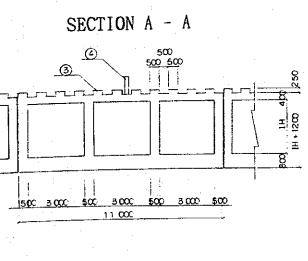
TYPICAL SECTION OF CAUSEWAY SCALE 1:100







<u>15D 15D </u>



NOTES

- (1) 40cm thickness concrete surfacing, grade=180kg/cm² with re-bar by D13 ctc 300mm
- ② 30cm random rubble masonry set in concrete, grade=180kg/cm²
- Cut-off-wall by reinforced concrete (h=2.0m, t=40cm) 3
- ④ Concrete curb 1=500mm, h=250mm @1.0m
- 5 Reinforced concrete delineators @10.0m
- 6 Down stream apron
- L1=0.60#4/TL t=40cm
- ⑦ Down stream river bed protection, gabion mattress L2=0. 30#4/ H#q. T=1. 0m L3=0.63#4/ H*q. T=0.5m
- (8) Up stream apron
- L4=L1/2, t=40cm
- (9) Up stream river bed protection. gabion mattress
- L5=L3/2, T=0, 5m
- Checkdam, gabion mattress Tmax=2.0m on river bed protection
- 11 Apron concrete, grade 180kg/cm² with re-bar by D13 ctc 300mm 12 "q" means run-off discharge per a liner meter(m⁴/sec).
- 13 River bed protection and checkdam shall be provided only on main water course.
- 14 Minimum concrete cover to re-bar 5cm.

NOTES

- ① Concrete grade=180kg/cm² with re-bar by D13 (2) Cut-off-mail by reinforced concrete (h=2.0m, t=40cm)
- ③ Concrete curb 1=500mm, h=250mm @1.0m
- ④ Reinforced concrete delineators 010.0m
- (5) Down stream apron L1=0.60*4√H.t=40cm
- (6) Down stream river bed protection, gabion mattress L2=0.30*4√ H*q T=1.0m
- L3=0. 63*4√ H*q. T=0. 5m
- ⑦ Up stream apron
- 14=11. t=40cm (B) Up stream river bed protection, gabion mattress
- L5=L3/2. T=0. 5m
- Checkdam, gabion mattress Tmax=2.0m on river bed protection
 Checkdam, gabion mattress Tmax=2.0m on river bed protection
 Apron concrete, grade 180kg/cm² with re-bar by D13 ctc 300mm
 Vent diameter is either 1.0m or 1.5m, depending on run off discharge.

- 12 This type of causeway is applicable to principal stream. 13 "q" means run-off discharge per a liner meter(m³/sec).
- 14 River bed protection and checkdam shall be provided only on main water course. 15 Minimum concrete cover to re-bar 5cm.

DIMENSION LIST OF APRON

			(UNIT: m)
HEAD "H"	LI	и	REWARKS
H=0.0p	0.0	0.0	FOR CUT
II=0. 0o	3.0	2.0	FOR GROUND LEVEL
H=1.0m	3.0	2.0	
H=1.5m	3.0	2.0	
H=2.0m	4.0	2.0	

NATERIAL LIST

	1				in the second	the second s	_
ITEN	CLASS	UNIT	H=0. Om FOR CUT	H=0.0m FOR LEVEL GROUND	H=1.00	≣ =1.5∎	H
CONCRETE	ock=180kg/cm ²	m ³	4.73	5.55	6.89	7.09	
FORKE		D'	7.70	8.10	10.53	11.94	
REINFORCEMENT	a second a	kg	190	220	275	285	
MASONRY	30cm RUNDON		0.00	n 00	4.86	9.46	

DIMENSION LIST OF APRON

	+			(UNII; m)
HEAD "H"	DIANETER OF VENT "D"	Lì	L4	REMARKS
H=1.5p	D=1.0m	3.0	3.0	
H=2. On	D=1.5m	4.0	4.0	
H=2.5m	D=2.0m	4.0	4.0	

HATERIAL LIST

ITEN	CLASS	UNIT	D=1. Om	D=1.5m	D=2. Om	REMARKS
CONCRETE	σck=180kg/cm ²	D3	18.16	21.81	24.90	
FORKE			37.91	39.63	41.35	
REINFORCEVENT	l	kg	730	880	1000	SD-295A

DIMENSION LIST OF APRON

				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(UNIT: m)
	HEAD "H"	INNER HIG- HT OF BOX CULVERT "IH"	Lì	L4	REMARKS
1	H=3. Op	2.5₪	5.0	5.0	
	H=3.50	3.05	5.0	5.0	

MATERIAL LIST

ITEN	CLASS	UNIT	IH=2.5m	IH=3. 0m	REMARKS
CONCRETE	o ck=240kg/cm2	60 ⁹	20.07	22.05	
CONCRETE	$\sigma ck = 180 kg/cm^2$	D3	2.88	2.48	
FORME		51 ²	42.02	46 75	
REINFORCEMENT		kg	1850	2000	SD-295A
SCAFOLDING		0 ²	12.87	15.29	100
SUPPORT		D*	15.34	18.41	

NOTES	

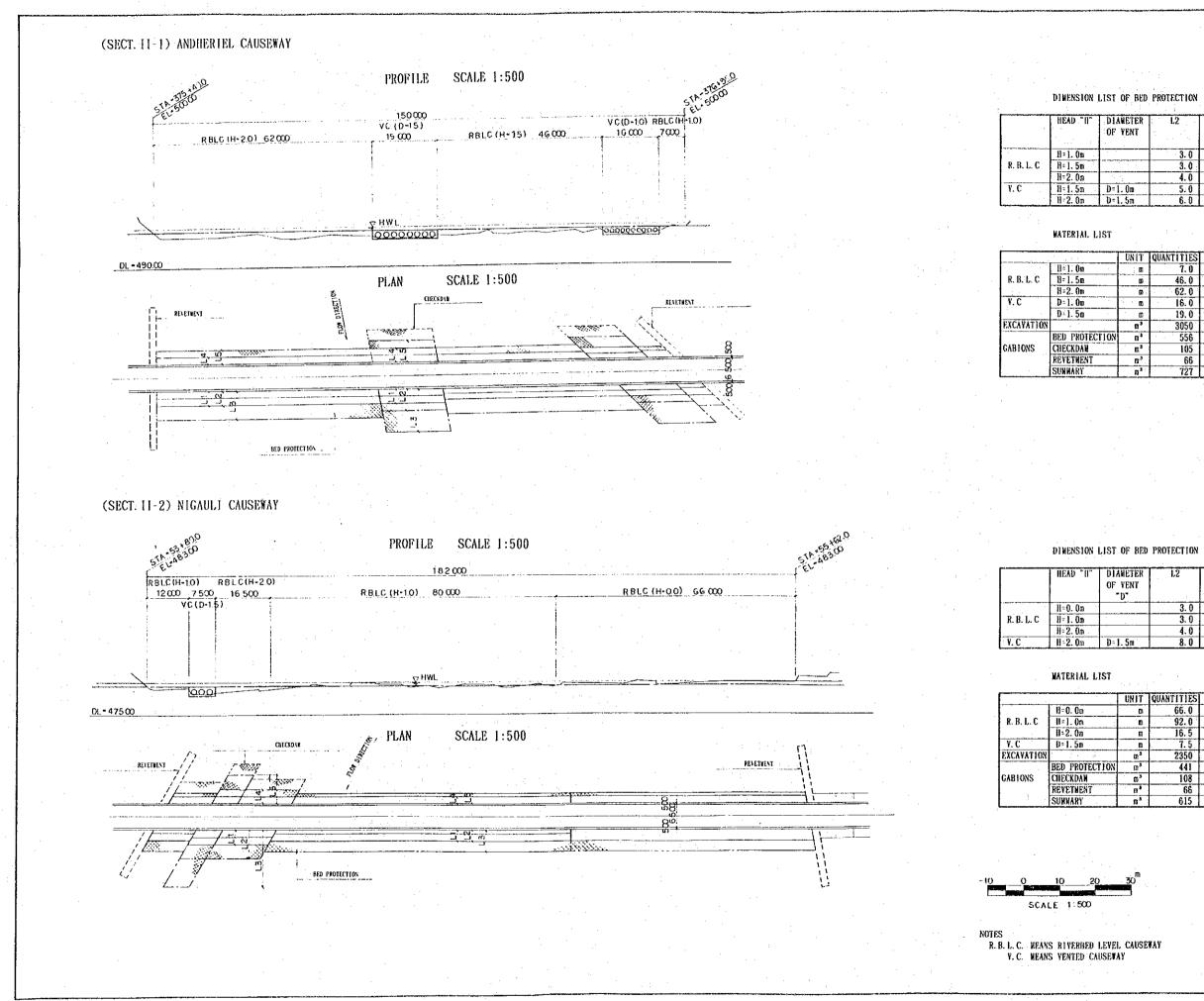
- ① Concrete grade=240kg/cm² with reinforced bar.
- ② Cut-off-wall by reinforced concrete (h=2.0m, t=60cm)
- ③ Concrete curb 1=500mm, h=250mm @1.0m
- ④ Reinforced concrete delineators 010.0m
- (5) Down stream apron
- L1=0. 60*4√H, t=40cm

6 Down stream river bed protection, gabion mattress L2=0. 30*4√11*q, T=1. 0a

- 1.3=0. 63*4√ H≭q. T=0. 5±
- ⑦ Up stream apron L4=L1, t=40cm
- (8) Up stream river bed protection, gabion mattress L5=L3/2, T=0. 5m
- (9) Checkdam, gabion mattress Tmax=2. On on river bed protection
- 10 Apron concrete, grade 180kg/cm² with re-bar by D13 ctc 300mm
- 11 "q" means run-off discharge per a liner meter(m*/sec).
- 12 River bed protection and checkdam shall be provided only on main water course.
- 13 Minimum concrete cover to re-bar 5cm.

2. 00	REMARKS
7.69	
13.36	
310	SD-295A
14.56	

HIS MAJESTY'S GOVERNMEN MINISTRY OF WORKS AND DEPARTMENT OF RC	TRANSPORT		
AFTERCARE STUDY FOR SINDHULI ROAD CONSTRUCTION PROJECT			
TYPICAL SECTION OF CAUSE WAY	SREET NO. D - 14		
SCALE	DATE		
JAPAN INTERNATIONAL COOPER	ATION AGENCY		



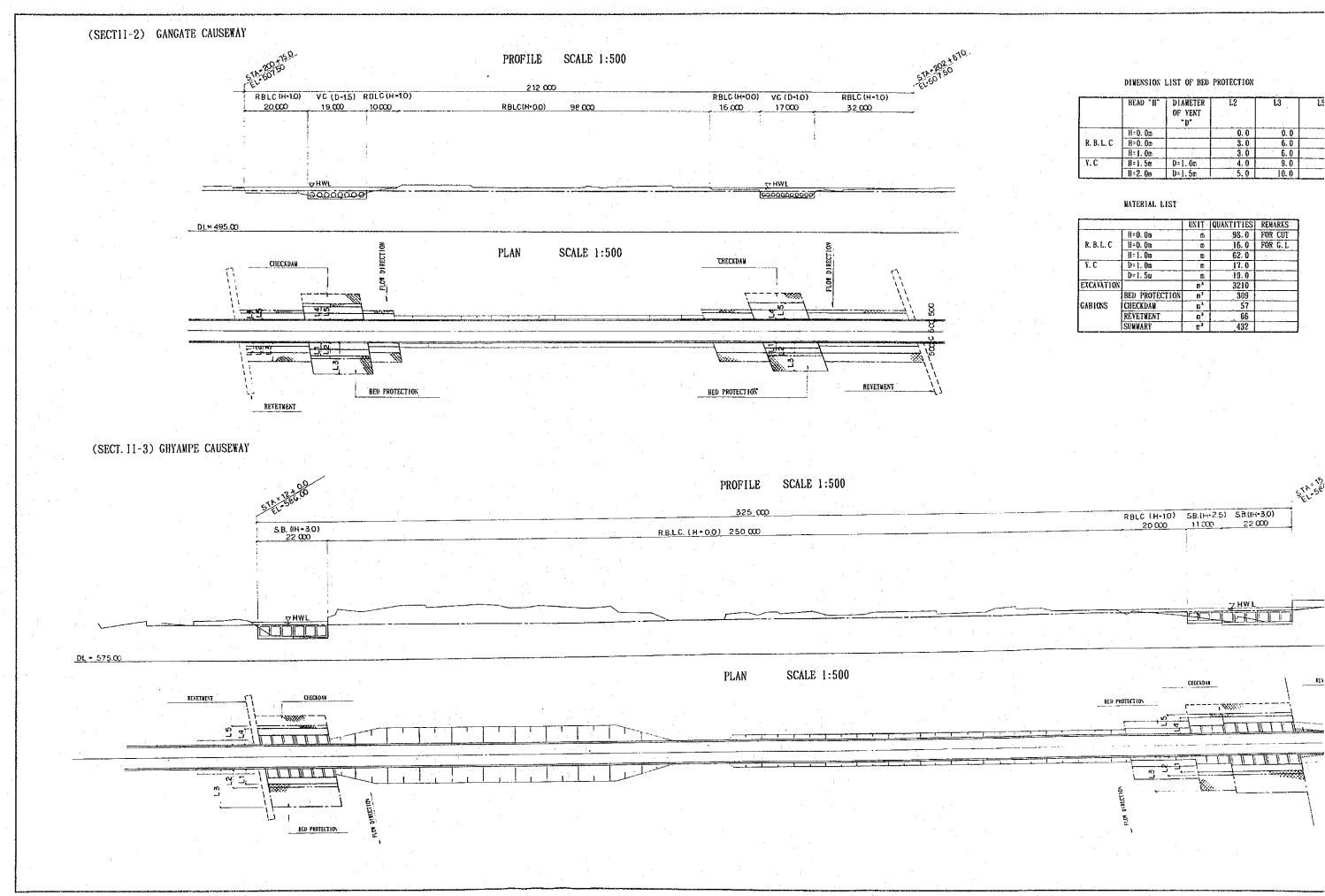
. :	· 1	·		(UNIT: m)
ER	L2	L3	L5	REMARKS
ſ	1	an a		
	3.0	6.0	3. 0	
	3.0	7.0	4.0	· · · · ·
	4.0	8.0	4.0	· .
	5.0	11.0	6.0	
	6.0	12.0	6.0	

		1.1
IT	QUANTITIES	REMARKS
B	7.0	
D	46.0	
0	62.0	
C	16.0	
Ø	19.0	
D 3	3050	
D.*	556	
n ³	105	
D3.	66	
0 ^{3 :}	727	

				(UNIT; m)
TER IT	1.2	L3	15	REMARKS
	3.0	6.0	3.0	FOR G. L
	3.0	6.0	3.0	
	4.0	8.0	4.0	
ı' I	8.0	16.0	8.0	$\mathcal{T}_{i} = \{i,j\}$

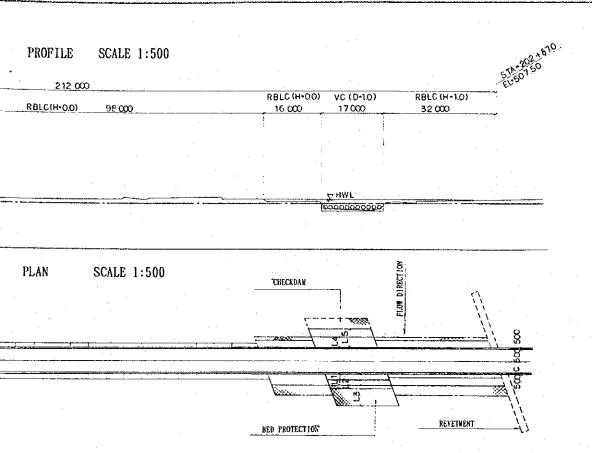
	· · · · · · · · · · · · · · · · · · ·	
ĪT	QUANTITIES	REMARKS
C	66. 0	FOR G.L
8	92.0	
11	16.5	
n	7. 5	
01 ³	2350	
п ³	441	
m³	108	
17 J	66	
n *	615	

HIS MARSTY'S GOVERNMEN MINISTRY OF WORKS AND DEPARIMENT OF RO	TRANSPORT
AFTERCARE STUD FOR SINDHULI ROAD CONSTRUCT	1
(SEC II - 1) ANDRERIFE CAUSEWAY (SEC II - 2) NIGAULT CAUSEWAY	sinfa so D - 15
SCALE HOR, LING VER 1:590	DATE:
IAPAN INTERNATIONAL COOPER-	MION AGENCY



	HEAD "II"	DIANETER OF VENT "D"	L2	រេះ	15
:	H=0.0m		0.0	0.0	
R. B. L. C	H=0.00		3.0	6.0	
	H=1.0m		3.0	6.0	
Y.C	H=1.5m	D=1.0m	4.0	9. 0	
	11=2. Om	D=1.5m	5.0	10.0	

		UXIT	QUANTITIES	REMARKS
	H=0. 0m	Ó	98.0	FOR CUT
R. B. L. C	11=0. Om	n	16.0	FOR G.L
	H÷1.0m	to:	62.0	
V.C	D=1. Om	Ð	17.0	
	D=1.5m	Ð	19.0	
EXCAVATION		63	3210	
	BED PROTECTION	m ³	_ 309	
GABIONS	CHECKDAN	B 3	57	
	REVETWENT	Q 3	66	
	SUMBARY	E.3	432	



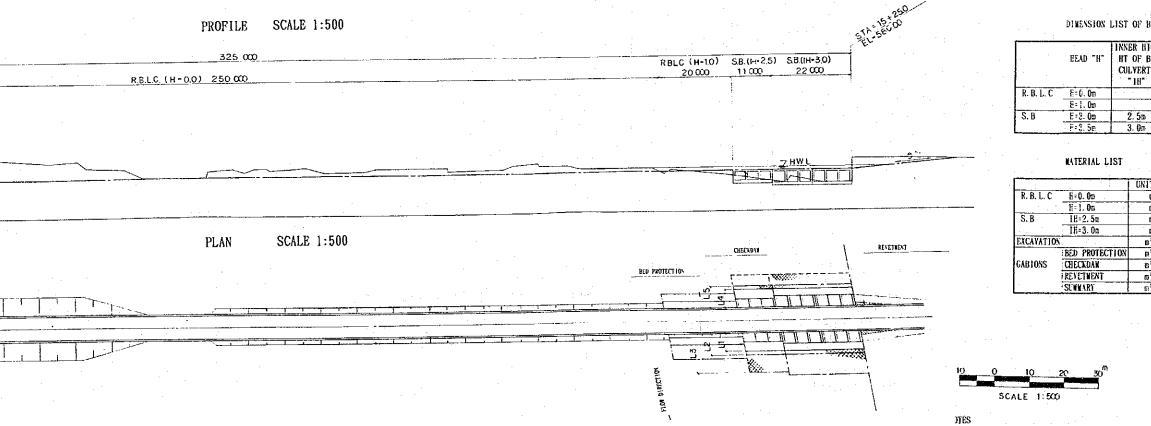
DINENSION LIST OF BED PROTECTION

	READ "II"	DIANETER OF VENT "D"	L2	1.3	15	REMARKS
	ll=0. 0a		0.0	0.0	0.0	FOR CUT
R. B. L. C	H≈0. 0a		3. 0	6.0	3.0	FOR G.L
	H=1.0m	· ·	3.0	6.0	3.0	
۲. C	H=1,5m	D=1.0m	4.0	9.0	5.0	
l	H=2.0m	D=1.5c	5.0	10.0	5.0	

21011 T

NATERIAL LIST

				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		UNIT	QUANTITIES	REMARKS
	H=0. 0m	. D	98.0	FOR CUT
R. B. L. C	H=0.0m	۵	16.0	FOR G.L
	H=1.0m	· · · · ·	62.0	
Y.C	D=1.0a	Ū	17.0	
	D=1.5m	កា	19.0	
EXCAVATION		m ³	3210	
	BED PROTECTION		309	i,
CABIONS	CHECKDAN	B 3	57	
	REVETHENT	@ ³	66	
	SUMBARY	E, 3	432	



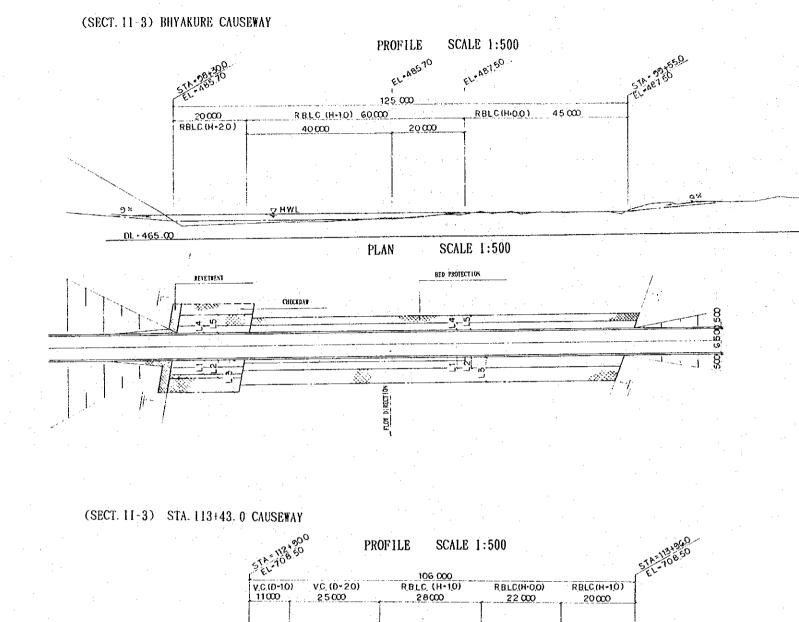
ITES R. B. L. C. HEANS RIVERBED LEVEL CAUSETAY V. C. HEANS VENTED CAUSETAY S. B. HEANS SUBHERSIBLE BRIDGE

T OF BED PROTECTION	

:				(UNIT: m)
INER HIG- IT OF BOX JULYERT "IH"	L2	L3 :	រេ	REMARKS
	0.0	0.0	0.0	FOR CUT
	3.0	6.0	3.0	
2.5m	6.0	11.0	6.0	
3. On	6.0	12.0	6.0	

1	UNIT	QUANTITIES	REMARKS
1	8	250. 0	FOR CUT
	ß	20.0	1.1
	ED.	11.0	
	B	44.0	
	D 3	5710	
N	m ³	282	
	Ø ³	165	
	ក²	50	
T		107	

HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS				
AFTERCARE STUE FOR SINDHULI ROAD CONSTRUCT	-			
(SEC II - 2) GANGATE CAUSEWAY (SEC II - 3) GHYAMPE CAUSEWAY	sheet no. D - 16			
SCALE HOR, 1:500 VER, 1:500	DATE			
JAPAN INTERNATIONAL COOPER/	TION ADENCY			



	HEAD "D"	LZ	13	
	H=0.0m	3.0	7.0	
R. B. L. C	H=1. 0m	3.0	7.0	
	H=2. Om	5.0	9.0	
				_
	14	· .		
	NATERIAL LIS	T		
				_
		UNIT	QUANTITIES	
	H=0.0a	.	45.0	
R. B. L. C	11=1.0m	Ē	60.0	

.....

-

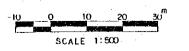
		UNIT	QUANTITIES
	H=0.00	۵	45.0
R. B. L. C	11=1 0m	61	60.0
1.	H=2.0m	· . 🖪	20.0
EXCAVATION	and the second second	03	1680
	BED PROTECTION	m*	405
GABIONS	CHECKDAN	۵ ³	60
	REVETNENT	Ð,	148
	SURMARY	E 3	613

DIMENSION LIST OF BED PROTECTION

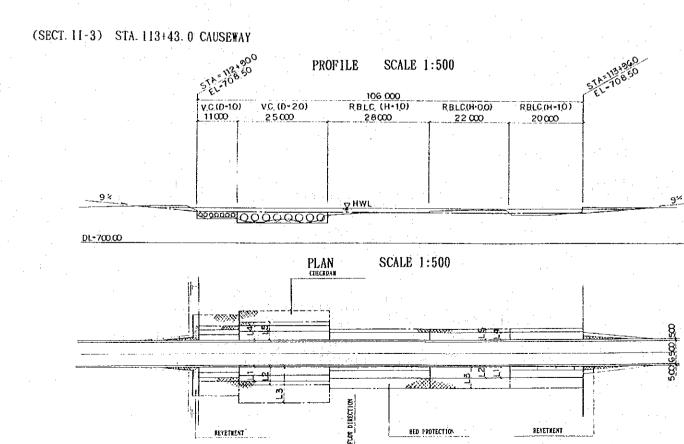
	HEAD "II"	DIAKETER OF VENT "D"	L2
R. B. L. C	H=0. Om		3.0
	H=1.0m	1. A. A.	3.0
Y.C	H=1.5m	D=1.0m	4.0
1	11-2.5m	D=2. Oa	5.0

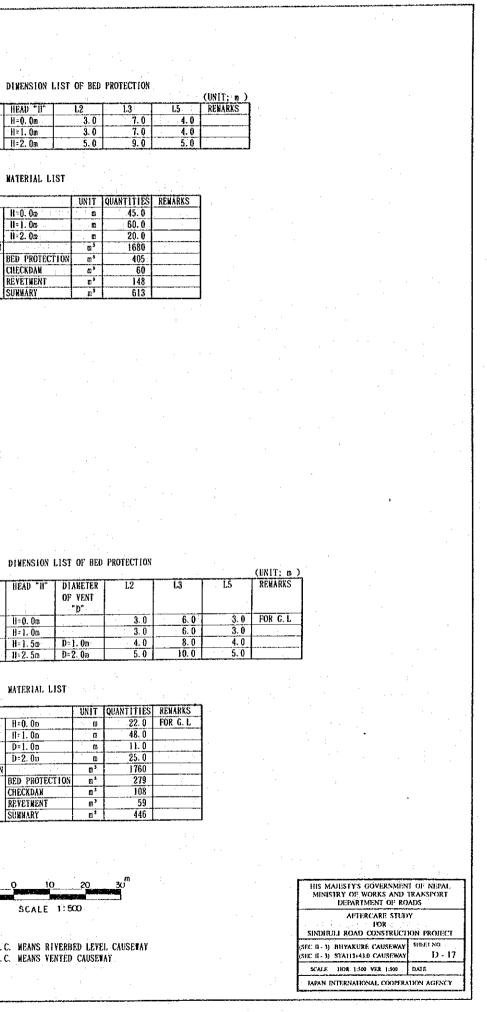
WATERIAL LIST

			1. A.	
		UNIT	QUANTITIES	
R. B. L. C	H=0. 0m	- M	22.0	
	ll=1.0m		48.0	
Y.C	D=1.00	ß	11.0	
	D=2.00	. D	25.0	
EXCAVATION	and the second	03	1760	
	BED PROTECTION	B ³	279	
GABIONS	CHECKDAN	B 3	108	
	REVETHENT	ß,	59	
1	SUMMARY	∎\$	446	



NOTES R. B. L. C. MEANS RIVERBED LEVEL CAUSEWAY V. C. MEANS VENTED CAUSEWAY





MATERIAL LIST OF MINOR CAUSEWAY

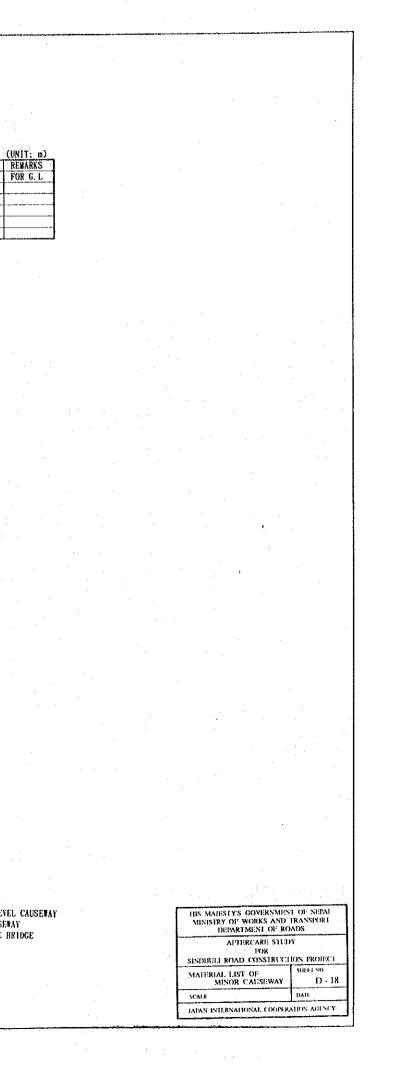
NATERIAL LIST

	ſ <u></u>				DUANTITIES	
	STATION	TYPE OF	CAUSEWAY	LENCTH	EXCAVATION m ³	GAB IONS m ³
	172+25.0 ~ 172+85.0	R. B. L. C.	H=0. 0	60.0	576	120
	$183+60.0 \sim 183+90.0$	R. B. L. C.	H=0.0	30.0	288	60
	$194+0.0 \sim 194+40.0$	R. B. L. C.	H=0.0	40.0	384	80
	$201+0.0 \sim 201+40.0$	R. B. L. C.	H=1.0	40.0	508	
	$211+85.0 \sim 212+15.0$	R. B. L. C.	H=0.0	15.0	144	30
	211105.0 - 212:15.0	n. p. p. v.	11-1.0	15.0	191	75
			SUMMARY	30.0	335	105
	217:75.0 ~ 218: 5.0	R. B. L. C.	H=0.0	15.0	144	30
	211.10.0 210.010		H=1.0	15.0	191	75
			SURMARY	30.0	335	105
SECTION-1	223+20.0 ~ 223+50.0	R. B. L. C.	H=0. 0	30.0	288	60
oborro	226+70.0 ~ 227+10.0	R. B. L. C.	H=0. 0	20. Ū	192	40
			ll=1.0	20.0	254	133
			SUMMARY	40.0	446	173
	229+50.0 ~ 230+10.0	R. B. L. C.	H=0. 0	30.0	288	60.
			ll=1. 0	30.0	381	183
а а	·		SUMMARY	60.0	669	243
	234+15.0 ~ 234+75.0	R. B. L. C.	H=0. 0	30.0	288	60
		:	H=1.0	30.0	381	183
			SUMMARY	60. 0	669	243
	$238+95.0 \sim 239+35.0$	R. <u>B. L. C.</u>	H=0. 0	40.0	384	80
	$246+20.0 \sim 247+0.0$	R. B. L. C.	H=0.0	80.0	.768	160
	249+75.0 ~ 250+55.0	R. B. L. C.	H=0. 0	80.0	768	160
	$258+50.0 \sim 258+80.0$	R. B. L. C.	ll=0. 0	15.0	144	30
	1		B=1.0	15.0	191	75
			SUNMARY	30.0	335	105
	$260+85.0 \sim 261+15.0$	R. B. L. C.	H=C. 0	15.0	144	30
			H=1.0	15.0	191	75
			SUNMARY	30.0	335	105
	$265+50.0 \sim 266+30.0$	R. B. L. C.	li=0.0	80.0	768	160 100
	$272+30.0 \sim 272+80.0$	<u>R. B. L. C.</u>	H=0.0	50.0	480	60
	282+75.0 ~ 283+15.0	R. B. L. C.	II=0.0	30.0	288	50
			H=1.0 Sunnary	10.0	127 415	110
OPOSION LL N		R. B. L. C.	H=0.0	40.0	288	60
SECTION-11-1	$353+35.0 \sim 353+65.0$ $381+25.0 \sim 381+55.0$	R. B. L. C.	H=1.5	30.0	528	60
	$3+60.0 \sim 4+10.0$	R. B. L. C.	H=0.0	30.0	288	60
	3100.0 ~ 4110.0	R. D. L. C.	H=1.0	20.0	254	100
			SUMMARY	50.0	542	160
	18+40.0 ~ 18+60.0	R. B. L. C.	ll=0. 0	20.0	192	40
	$23+15.0 \sim 23+35.0$	R. B. L. C.	H=0.0	20.0	192	40
	$108+50.0 \sim 109+20.0$	R. B. L. C.	H=0.0	30.0	288	60
SECTION-11-2	100,000		H=1.0	40.0	508	200
			SUMMARY	70.0	796	260
	121+0.0 ~ 121+90.0	R. B. L. C.	H=0. 0	60.0	576	120
			H=1.0	30:0	381	150
	and and a state of the		SUMMARY	90.0	957	270
	167+20.0 ~ 167+90.0	R. B. L. C.	H=1.5	70.0	1232	210
	219+55.0 ~ 220+ 5.0	R. B. L. C.	II=0. 0	10.0	96	20
		ана ал (1997) Старалар	H=1.0	10.0	127	20
	. ⁶	1. A. A.	II= J. 5	30.0	528	180
			SUMMARY	50.0	751	220
	247+10.0 ~ 248+ 0.0	R. B. L. C.	11 0.0	70.0	672	140
			11=1.0	20.0	254	100
·			SUNNARY	90.0	926	240
	40150.0 ~ 41440.0	Y. C.	D=2.0	30.0	804	135
	· · · ·	<u>S. B.</u>	111=3.0	60.0	2250	480
SECTION-11-3			SUMMARY	90.0	3054	615
	$102!50.0 \sim 103+0.0$	R. B. L. C.	<u>H=0.0</u>	50.0	480	100
	195+80.0 ~ 196+10.0	R. B. L. C.	H=0.0	30.0	288	60

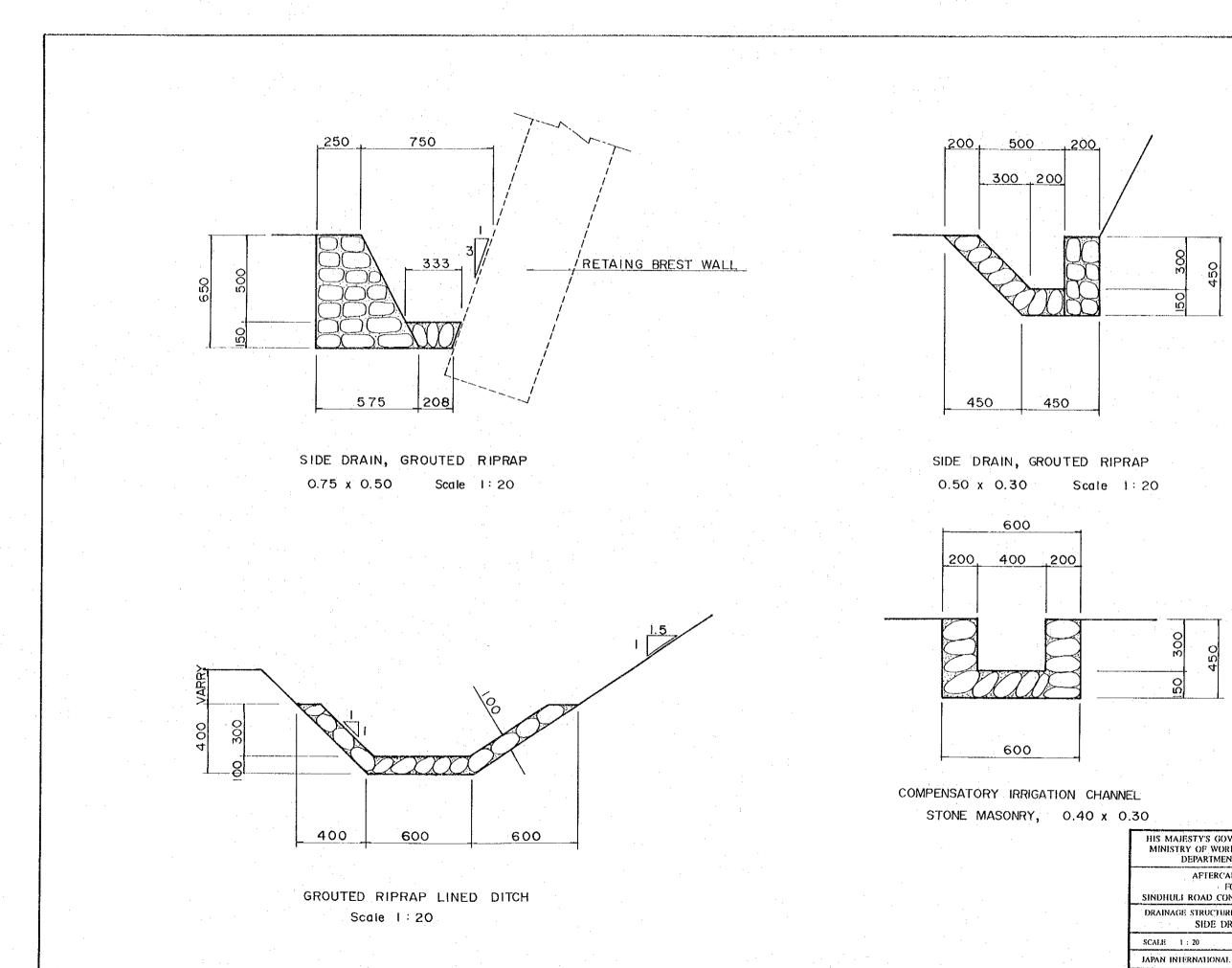
DIMENSION LIST OF BED PROTECTION

[ILEAD "II"	"D"OR" 111"	L2	13	1.5	: REM
	11=0. Om		3.0	6.0	3.0	FOR
R. B. L. C.	B-1. 0m		3.0	6.0	3.0	
	H=1.5m		3.0	7.0	4.0	
1	H=2.0a		4.0	8.0	4.0	
Y. C.	II=2.5m	D=2.0	5.0	10.0	5.0	
<u>S. B.</u>	H=3.5m	111-3.0	6.0	12.0	6.0	

NOTES R. B. L. C. MEANS RIVERBED LEVEL CAUSEWAY Y. C. MEANS VENTED CAUSEWAY S. B. MEANS SUBMERSIBLE BRIDGE

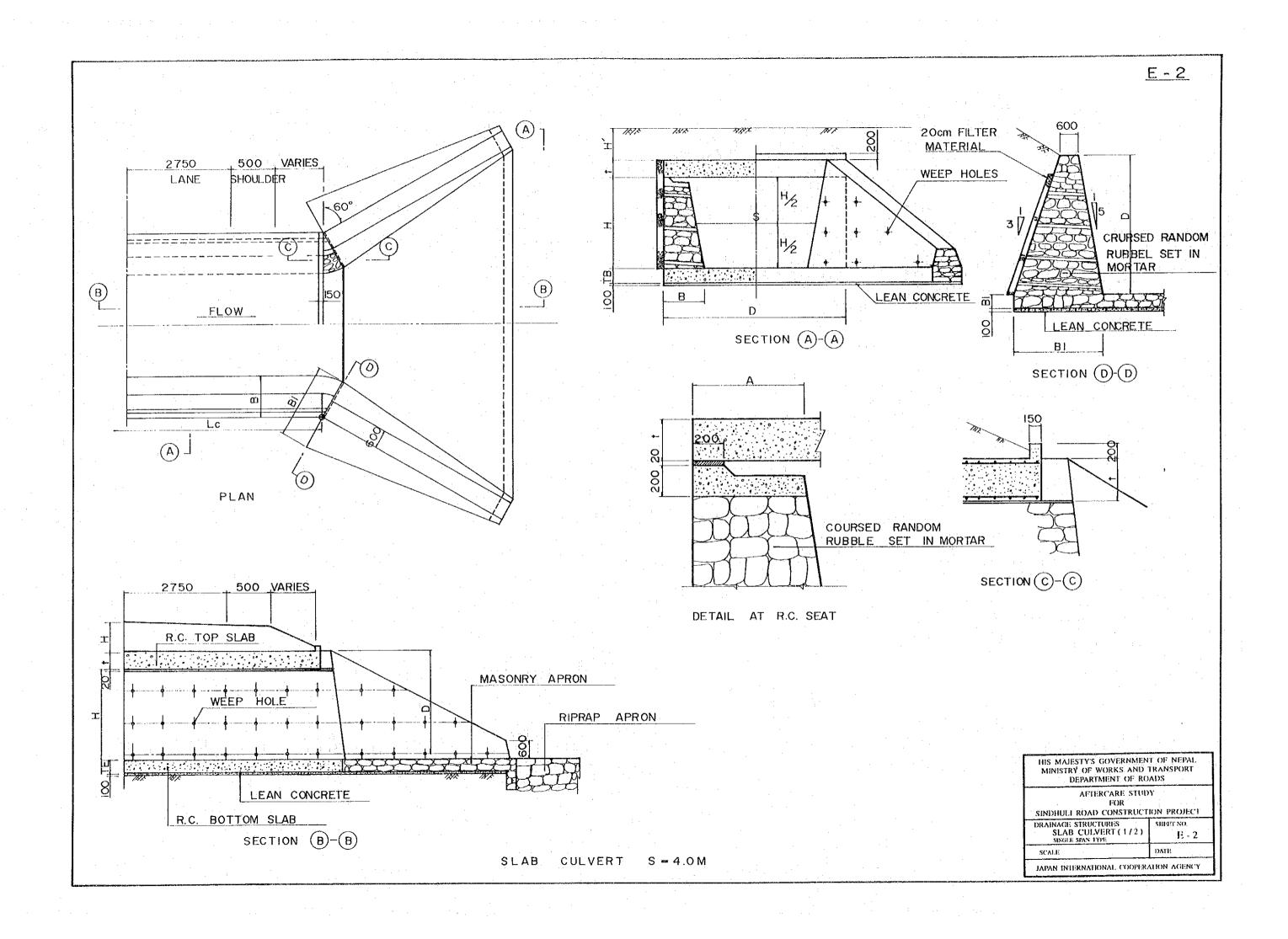


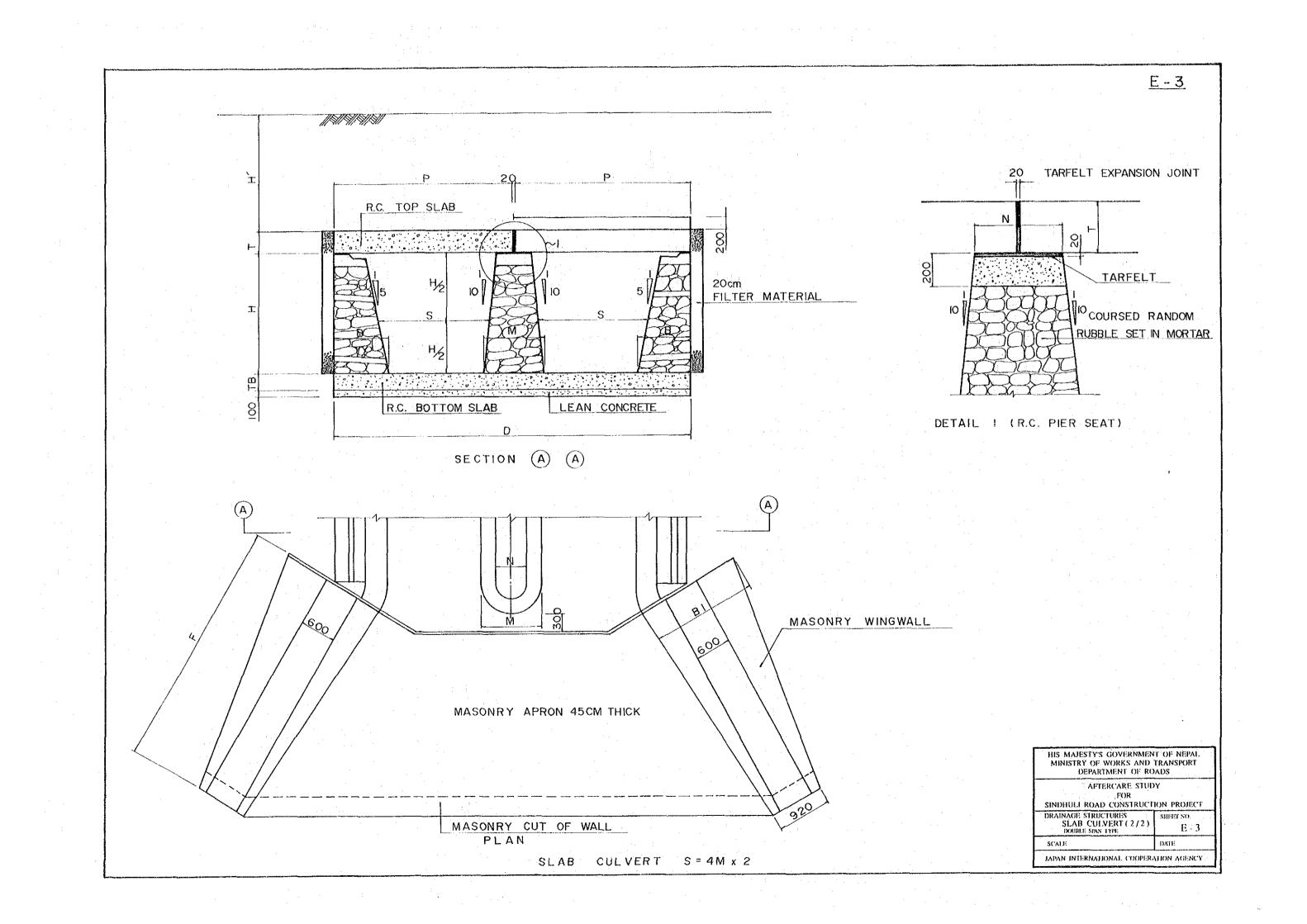
E. DRAINAGE STRUCTURES SIDE DRAINS SLAB CULVERT BOX CULVERT CORRUGATED ARCH CULVERT PIPE CULVERT CHECK DAM CHANNEL

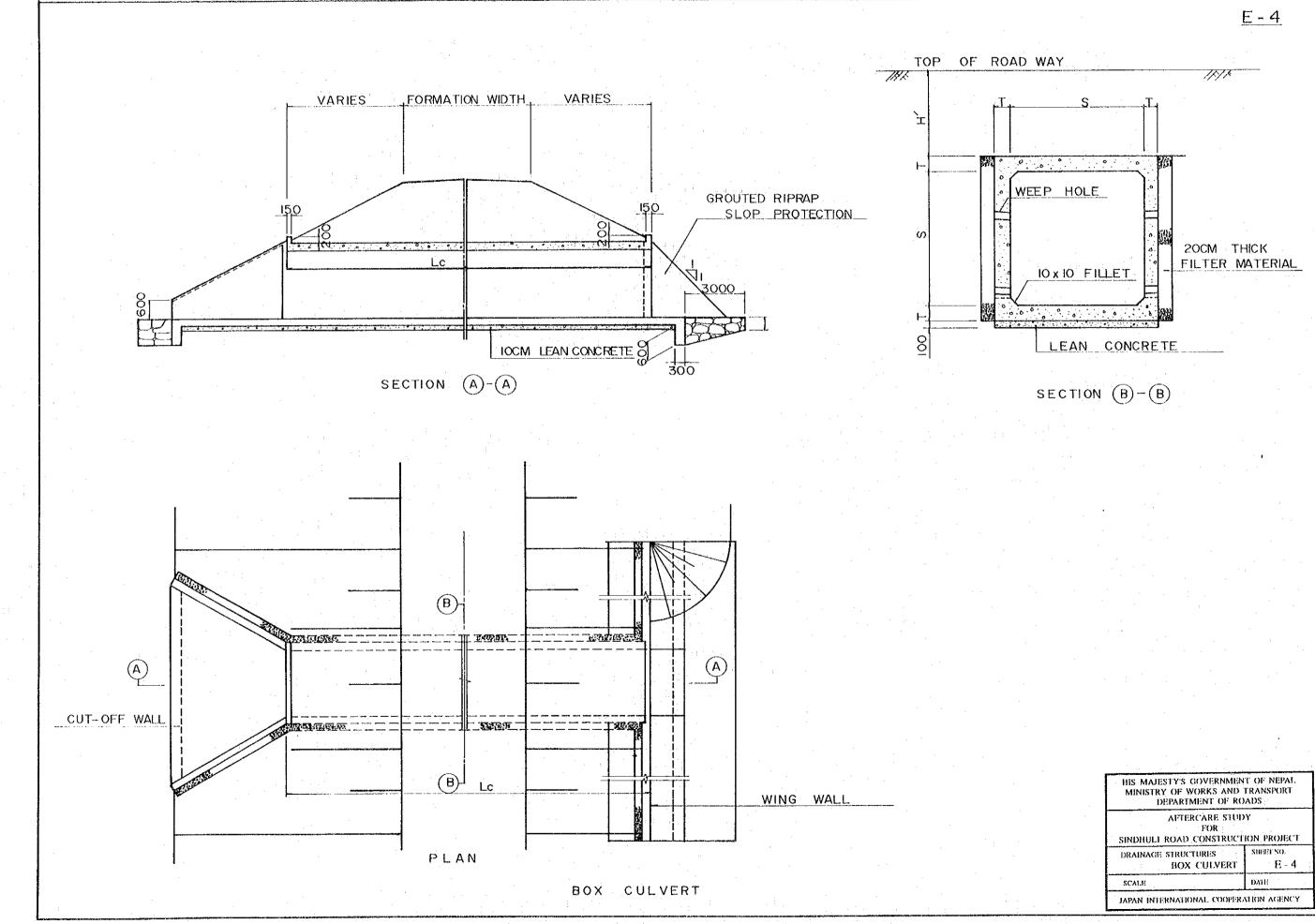


HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WORKS AND TRANSPORT DEPARTMENT OF ROADS AFTERCARE STUDY FOR SINDHULI ROAD CONSTRUCTION PROJECT DRAINAGE STRUCTURES SIDE DRAINS SHEET NO. E - 1 DATE JAPAN INTERNATIONAL COOPERATION AGENCY

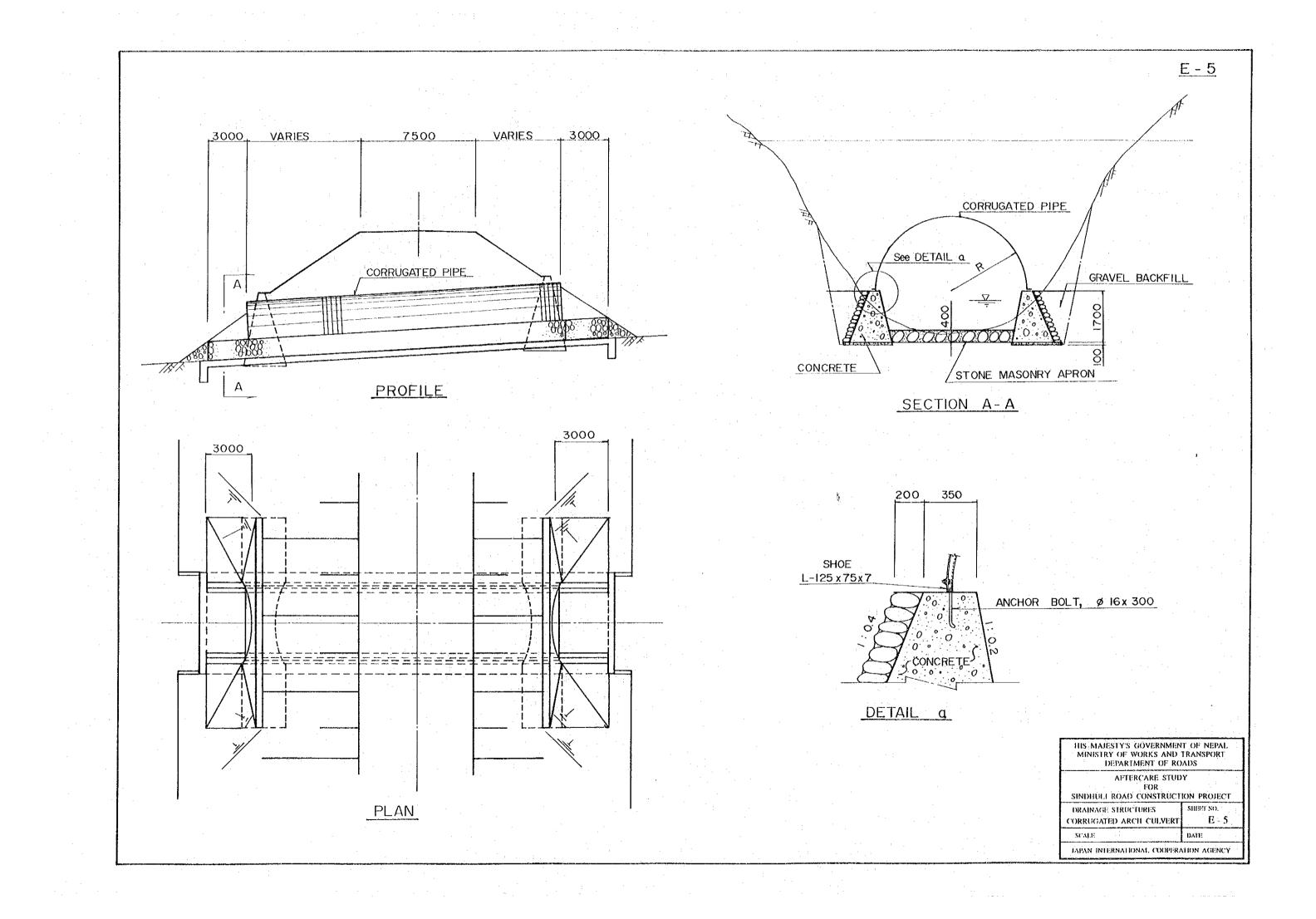
<u>E-1</u>

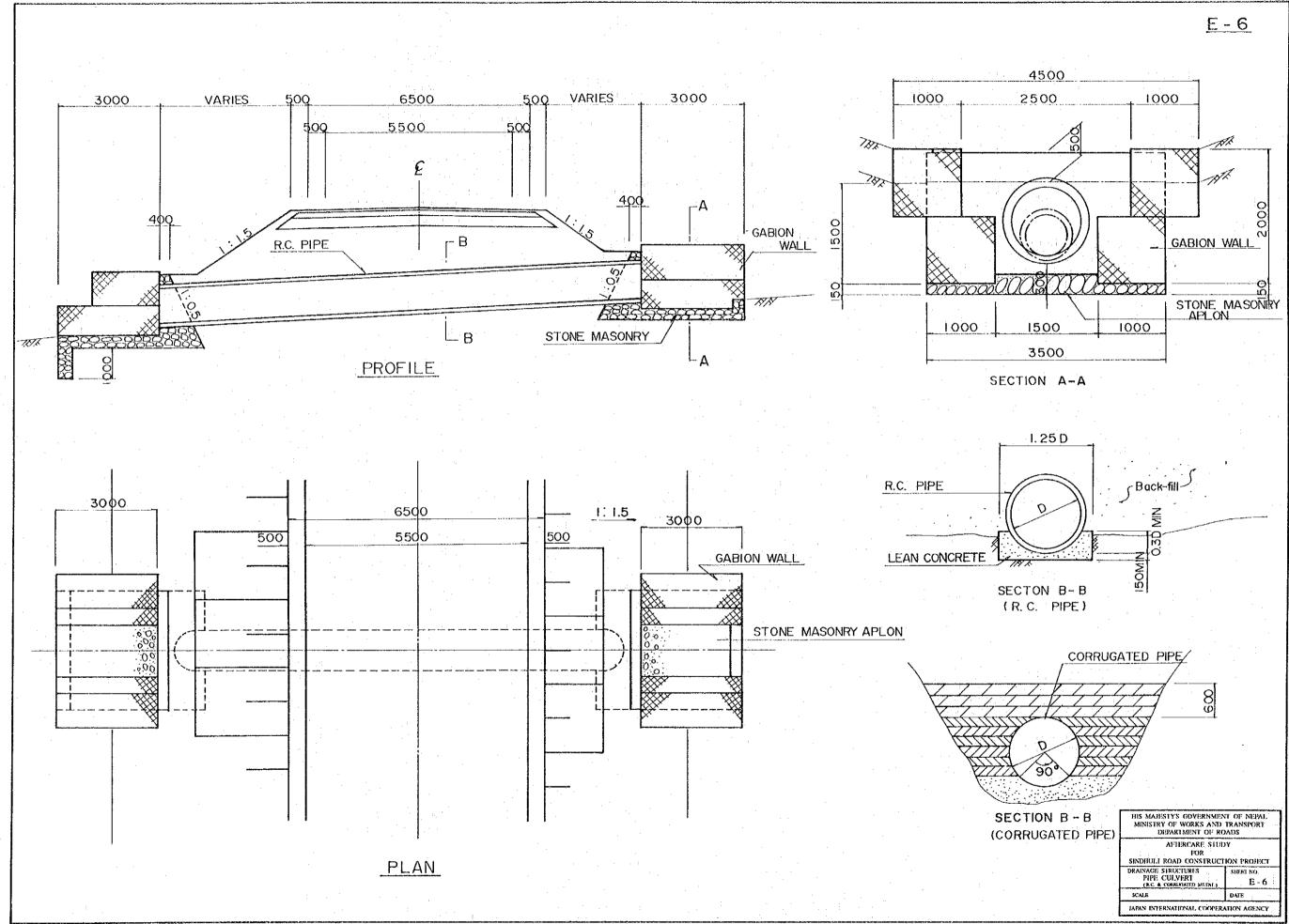


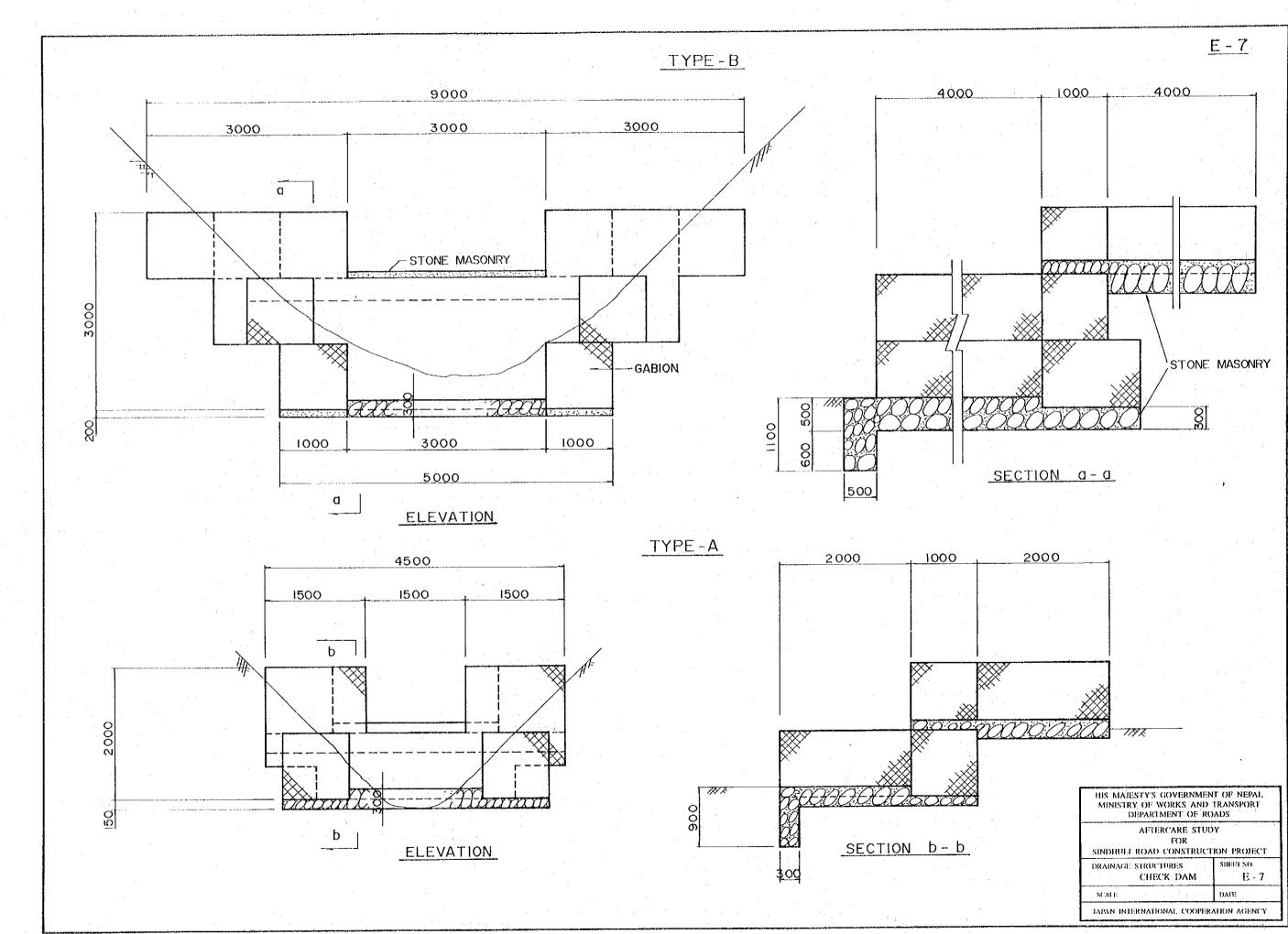




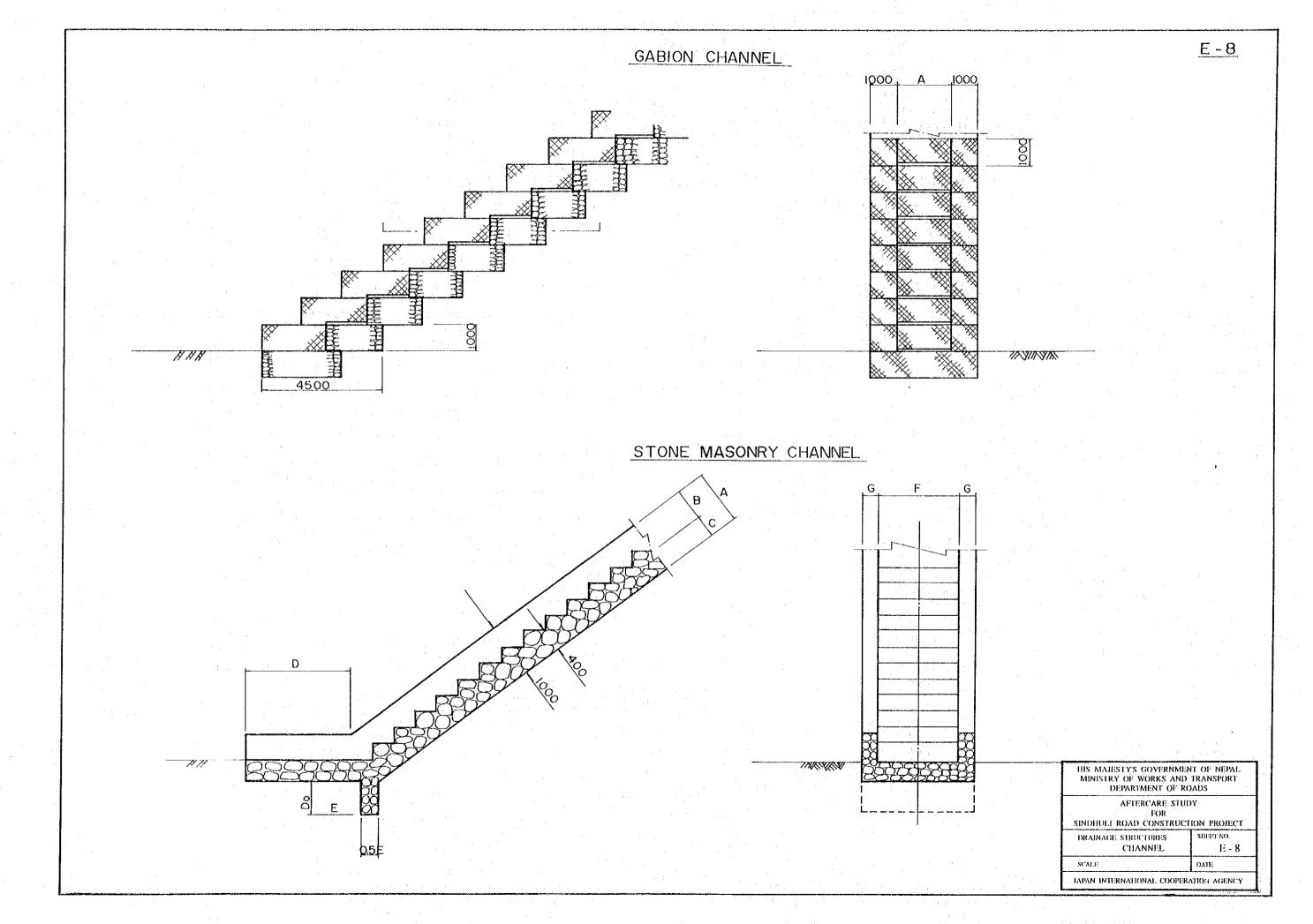
HIS MAJESTY'S GOVERNMEN MINISTRY OF WORKS AND DEPARTMENT OF RC	TRANSPORT
AFTERCARE STUE FOR SINDHULI ROAD CONSTRUCT	
DRAINAGE STRUCTURES BOX CULVERT	sinter 80. E - 4
SCALE	DATE
JAPAN INTERNATIONAL COOPER	ATION AGENCY







.



F. MISCELLANEOUS WORKS

STONE MASONRY PARAPET TRAFFIC SIGN & DISTANCE SIGN

