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3. Schemes of Proposed Bridges in Section B

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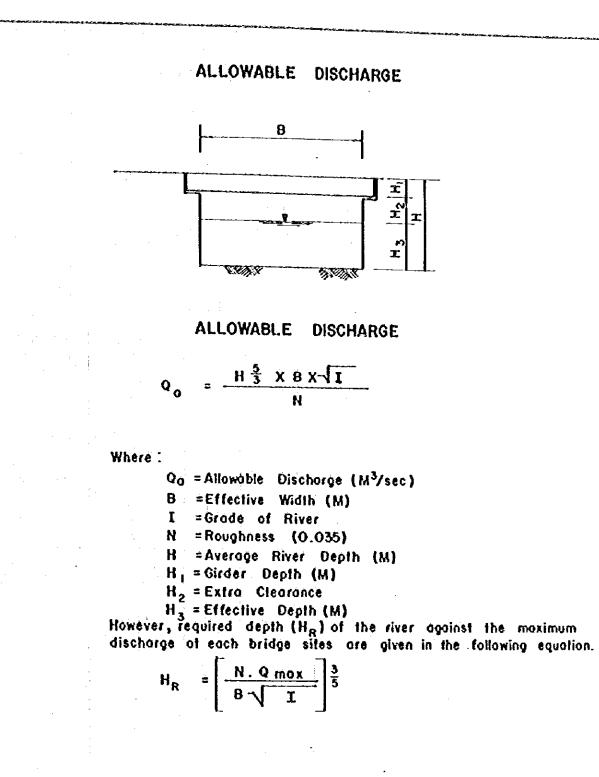
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STA. (KM)	BRIDGE NAME	τΥρε	CENGTH (M)	DIRECT COST(+)	F/113
174+25.0	151-151	8000	15.00	3/164:00	32.60
177+411.5	PONCAN(II)	PCG	75.00	2435000	4020
179 + 400.0	TAKTAK (X)	RCOG -	12.00	7145002	.7370-
181+300.0	TAKTAK (II)	- RCDG	12.00	497400	6160;
1984975.0	MINULI(I)	, iPCG	20.00	594800	- 3680
216+4000	SANTA FE	r iPCg	30.00	814800	3360

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CONSTRUCTION COSTS OF BRIDGES IN SECTION B

F ~ 40



ALLOWABLE DISCHARGE CALCULATION

Moximum discharge at each Bridge Sites

Q_{mox}¤ q. A

Where :

 $Q_{max} = Maximum discharge (M³/sec)$

 $q = Specific discharge (M^3/sec/KM^2)$

A = Catchment Area (KM²)

КМ	BRIDGE NAME	I	A	q	Q _{mox}	REMARKS
165.0	TAYABO				+	IRRIGATION
171.64	LOMBOYBUKID	1/20	0.55	28	20	
173.30	NANLAGARIAN	1/20	0.69	28	20	
174.25	1\$1 ~ IS1	1/30	4.01	28	112	
177.26	PONCAN (1)		1983 <mark>-</mark> 195			IRRIGATION
177.43	PÓNCAN (II)	1/25	38.28	20	770	
179.40	TAKTAK (I)	1/35	0:2.24	28	63	
181.30	TAKTAK (II)	1/15	1.27	28	36	
182.30	DIG DIG	1/55	139.90	20	2800	
195.45	POTLAN	1/40	37.25	20	750	
198.95	MINULI (I)	1/25	11.75	28	330	
199.05	MINULI (II)	1/35	3.00	28	84	· · · · · · · · · · · · · · · · · · ·
201.40	CAPINTALAN(I)	I/8	0.26	28	7	
203.10	CAPINTALAN(II)	1/20	5.25	28	147	
216.65	SANTA FE	1/66	25.00	20	500	·
217.898	CONSUELO	1/5	0.49	28	14	

LIST OF MAXIMUM DISCHARGE

КМ	BRIDGE NAME	Qmai	B	I	SCHAF	Q ₀	Γ	r
166.00	ттачаво -						- Judg.	H _F
171.64	LOMBOYBURIO	16	10.0	1/20	1.7			
173.30	NANLAGARIAN	20	12.5	1/20	2.7	455	OK	0.4
174.25	151-151	115	10.0	1/30	1.2	418	0X	0,4
177.26	PONCAN (1)					71	OUT	1.6
177.43	PORCAN (II)	770	40.0					-
179.40	TAKTAK (I)	63		1/33	2.0	631	OUT	2.3
181.30	TAXTAK (II)	36	10.5	1/35	0.8	35	OUT	1.1
182.30	OIGDIG		6.8	1/35	0.9	28	our	1.1
195.45	<u> </u>	2800	65.0	1/55	7.5	7200	OK	4.3
	POTLAN	750	55.0	1/40	3.7	880	OK	3.4
198.95	MINULI (E)	330	10.0	1/25	1.2	17	OUT	2.9
199.05	MINULI (II)	84	13.0	1/35	2.0	199	OK	
201.40	CAPINTALAN(I)	. 7	6.5	I/8	2.2	244	OK	0.3
203.10	CAPINTALAN(I)	147	14.0	1/20	42	978	OK_	1.3
216.65	SANTA FE	500	24.0	1/66	2.2	314	out	2.9
217.898	CONSUELO	13	15.0	1/5	72	5146	ОК	0.2

Where :

Judg. = Judgement OK = Q_{mox} < Q₀ OUT = Q_{mox} > Q₀

TOTAL	ş	12800	1	340	Ħ	÷			No.
ABUT "B"	80	- 848 848	1	- 170	1 .	2060 F/M2	#	×××/	SS SECTION SS
PIER	1	 	J		2 X 100000 = 200000	2060	316,400	3260	AL CROSS
Pier R	F	I		1					
ABUT. "A"	80	848	1	- 10	ON COST		TION COS	0	
	CONCRETE	REIN. BAR	PILE	EXCAVATION	CONSTRUCTION	0+C	CONSTRUC	0) + C2	
/		L	su t		1\$8 1		23 TOTAL CONSTRUCTION COST	ලෙ	
96,96	•	1	•	86.1	6400	24.0	₩16400	1200 ⁷⁷ M ² (
AREA OF BRIDGE	LENGTH	PCG EACH	CONCRETE		S REINFORCING BAR		CONST. COST	<u></u> В (0 + (0)	
6)		@	9	٢	9	· · · ·	0	0	PROFILE CALE 1.1. COO
1744250	1S1-1S1	12.00	7.32	RCDG	INVERTED - T	J	SPREAD	L.G. M. Up from existing river bed	
O STATION	(2) BRIDGE NAME	3 BRIDGE LENGTH	C ROADWAY WIDTH	SBRIDGE TYPE	CABUTMENT TYPE	7) PIER TYPE	B FOUNDATION TYPE	SHEGHT WATERLEVEL	008 %

PROPOSED BRIDGE

	1.1			1	r	r~-	1	-	1	
	TOTAL	420	35200	= 50 =	820	10 X 754				
	ABUT.'8'	02	10400	320	240	2X145000+1200000+1120 X 754	2270 75/M2	2435000 -	₹/ M. ²	
	PIER	ŝ	728	240	140	5000 + 12	2270	2435	4020	
	PIER	8	7200	240	- 20	2X14				
	ABUT. "A"	130	10400	320	240	N COST		TON COST		A WE O'SOLO O
		CONCRETE	REIN. BAR	PILE	EXCAVATION	CONSTRUCTION COST	0- E	23 TOTAL CONSTRUCTION COST	() + (S	
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	γ.,	۲	8	0	3	8	٩	٢	3	20.00 2.00 2.00
	606.00	24.96	- 	163	240	5000	150.0	1060500 #	1750 ⁷⁷ /m,2	
·	AREA OF BRIDGE	LENGTH	PCG EACH	CONCRETE		TEINFORCING	RAILING	CONST. COST	0 + 0 80	TYPICAL CROSS SE
	0	E	Ō	0		•	(9)			
PROPOSED BRIDGE	177+411.50	PONCAN (II)	75,00	7.32	BCG (G	INVERTED-T	OVAL ((R.C PILE 0.40 X 0.40	2.3 m.Up From ExistingRiver Bed (8)	
	U STATION	(2) BRIDGE NAME	S BRIDGE LENGTH	C ROADWAY WIDTH	SBRIDGE TYPE	CABUTMENT TYPE	PIER TYPE	S FOUNDATION TYPE	אבטאר אאדבא ובעבו	

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TOTAL	- 20	12000	360	80	200 #				*# 6
ABUT."8"	75	809	280	8	2X88,000+560X254 = 598,200	± / ₩2		¥/ ¥2	
9 8 8 8		1	,		8,000+560)	61:70	714-600	7370 Ħ/	
PIER	 1	•			2 X 8				TYPICAL
ABUT."A"	75	6000	280	150	N COST		ION COST		
	CONCRETE	REIN. BAR	515	EXCAVATION	CONSTRUCTION COST	() + (2	CONSTRUCTION COST	() + ()	
		3	RUT	BUC	158		TOTAL		Of mental and the second
Ĺ	0	8	0	⊗	0	٢	٢	8	
96,96		•	•	56.1	6400	24.0	16400 #	1200 ⁷ /m ²	
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0 4	\bigcirc	32 (2)	0	۲ ا	911: (2)	(9) (9)		@	PROFILENER
179+400	ТАКТАК (1) (12.00	7.32	RCDG (INVERTED-T	-	R.C PILE 0.40 X0.40	1.10 M. Up from existing river bed	PROVE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL
OSTATION	(2) BRIDGE NAME	S BRIDGE LENGTH	C ROADWAY WIDTH	SERIDGE TYPE	© ABUTHENT TYPE	PIER TYPE	SFOUNDATION TYPE	אבואר אתבגרבעבר	

•	TOTAL	130	10400	480	260	₩ 0070	:			
	ABUT"B"	ŝŝ	88	240	-30	2X77000 +480 X754 = 400400	4960 T/M2	497400 #	0 #/M2	CROSS SECTION
	PIER		 	F	: 	77000 + 4	49	497	6160	
	PIER		•			S.				TYPICAL TYPICAL
	ABUT "A"	65	5200	540 1942	<u>8</u>	N ØST		ION COS.		· · · · · · · · · · · · · · · · · · ·
· .		CONCRETE	REIN, BAR	PILE	EXCAVATION	CONSTRUCTION COST	() + E3	23 TOTAL CONSTRUCTION COST	0 + CZ	FINISHED GROUND LEVEL
	$\ $					158		Б Б		
		9	8	<u>@</u>	12	0	(<u>B</u>		ලි	
	80,8 M. ²		L	E	44.5	50.30	20	97000	1200 ^{-#} / _M 2	
	AREA OF BRIDGE	LENGTH	PCG EACH	CONCRETE		S REINFORCING BAR		CONST. COST	() () () () () () () () () () () () () (PROFILE scale 1:100 BI VINN 9,000 BI VINN 9,000 BI VINN 9,000
	₹ ©	$\overline{\mathbb{E}}$	8 (2)	0		EU1:	9	D	@	
TRUPUSEU BRIUGE	181+300	тактак (!!) (10.00	7.32	RCDG ((INVERTED-T	-	R.C PILE 0.40X0.40	1,10 M. Up from existing river bed	
	C STATION:	2) BRIDGE NAME	S BRIDGE LENGTH	C ROADWAY WIDTH	SBRIDGE TRE	GABUTHENT TYPE	T PIER TYPE	S FOUNDATION TYPE	HEGHT WATERLEVEL 1.	

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198 + 975 MINULI (1) 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 2	REA OF BRIDGE	LENGTH		CONCRETE				.	
1984-975 MINULI (1) 20.00 7.32 PCG INVERTED-T SPREAD 482.50	<u>4</u> 0	୍	જ હ	ଚ		r	i _		
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PROPOSED BRIDGE

4. Comparative Studies on Bridges along Alternative Routes

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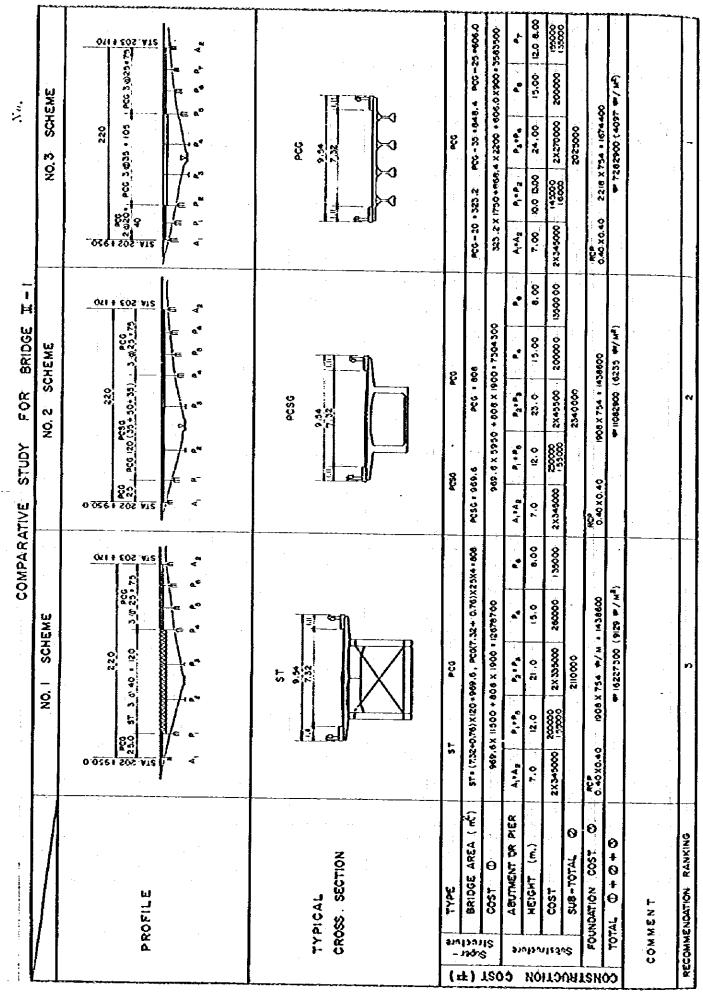
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CONSTRUCTION COST FOR BRIDGES

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ROUTE		STATION OF BRIDGES	LENGTH (M)	TYPE	CONSTRUCTION COST (P)	UNIT COS
		\$TA.2021950 - 2031170	250	PCG	7283000	4100
	2	STA.2031657.5-2031747.5	100	PCG	2474000	3060
	3	STA. 2041135 - 2041225	90	PCG	2434000	3350
•	4	STA. 205137.5-2051152.5	115	RCOG PCG	2737000	2950
n	5	STA. 2071872.5 - 20719325	60	PCG	1698000	3500
	6	STA. 2031532-2091567	35	PCG	1182000	4180
	7	STA . 2091770 2091790	20	PCG	843000	5220
	8	STA.2101090-210+180	90	PCG	2597000	3570
	9	STA.2101410-2101440	30	RCDG	706000	2910
		TOTAL			21954000	
	T	STA . 2054035-2054110	75	RCOG	1629000	2690
X.	2	STA.205+518-205+558	40	PCG	1251000	3870
_		TÓTAL			288000.0	
Д"	1	STA.2051035-2051185	150	PCG	3808000	3140
· .	1	STA . 2051110 - 2051680	570	PCSG	29984000	6510
:	2	STA . 205 #7 10 - 205 #7 70	60	PCG	2205000	4550
x	3,	STA . 2051805 2051940	75	PCG	2704000	4460
	4	STA . 2061030 - 2061080	50	PCG	1769000	4380
	5	STA . 2061155 - 2061335	180	PCG	6498000	4470
1	6	STA. 2061482.1 - 2061582.5	100	PCG	2824000	3500
		TOTAL	· · · · · · · · · · · · · · · · · · ·		45984000	
	1	STA . 2051505 - 2051605	100	PC SG	6320000	7820
X.	2	STA.2061565 - 2061605	40	PCG	1261000	3900
		TOTAL			7581000	
X*	l	STA. 2051885 - 2061140	255	PCSG PCG	11179000	5430
X.		STA . 205+870 - 205+995	125	PĆG	3814000	3780

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2 SCHEME NO.3 SCHEME	65-162 + E02 WIS			3)X 90 +727.2	34400	√2	5.00 280000			(3062 **/** ²)	
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		727.2 X 2000+ 1454400									
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SCHEME

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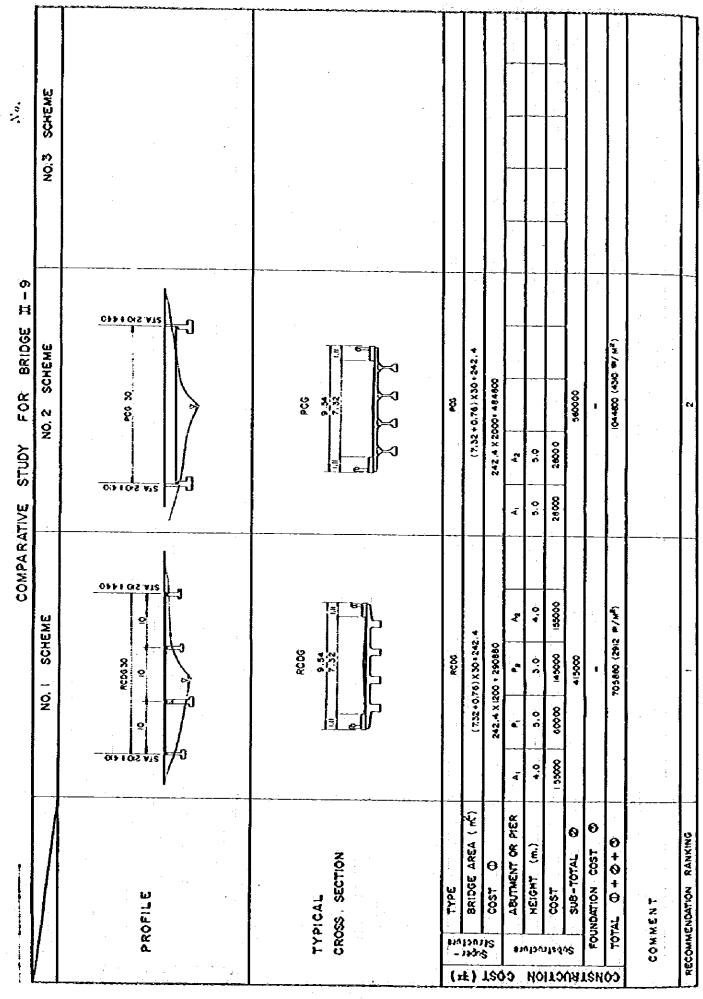
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	FOUNDATION COST O			•											
	TOTAL 0 + 0 + 0		2.59	2597600 (3572 #/M ⁴)	{ * W/# 2										
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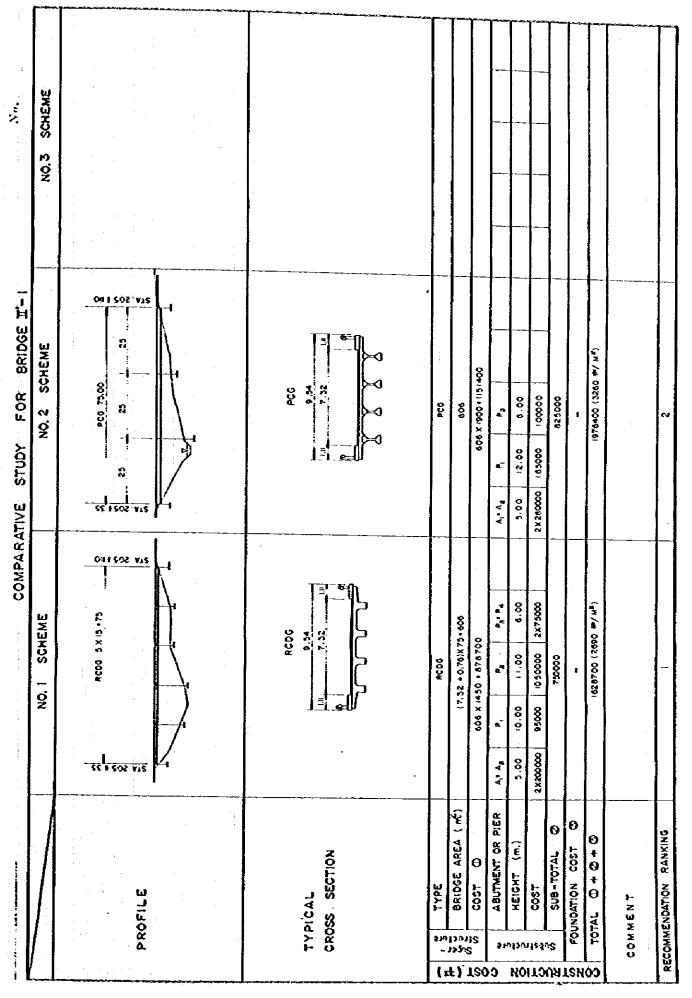
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			NO. 1	SCHEME			NO, 2	Ň				NO. U	SCHEME	
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FOR	NO. 2 S	00 • • • • • • • • • • • • • • • • • •		S S	(7.32+0.76) X 150+ 1212.0	1212 X 1900 + 2302 600	┠─┠	-6.00	1600 000	ł	5902,600(3220 m/ MF)		N
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COMPARATIVE		550 F 662 VIS 14	: 				<	00 3.00	 			·	
COMPA		C6911 502 7/15			e.,	00		0001100			ŝ		
	SCHEME	8	ζ.		PC6 - 30+ 727 .5	484.8 × 1750 + 727 .2 × 2000 + 2502800		0 18.00 2X250000	1		3907600 (3142 - / Mg)		
	NO. I S	₽ CC C 190	G	004		727.2 X 20		16.8	1505000		3007600 (-
		9 9 9 500 502 7.5			PC0-20 + 484. 8	8 × 1750 + 1		0 00 145000					
]	SEO 1 502 V.S			PC6-20	484,	A1 + A 2	5.00 2 X 26000					
		PROFILE PROFILE	TYPICAL CROSS SECTION		ω		ABUTMEN	Cost (a)	SUG-TOTAL @	TION COST		COX M R N H	RECOMMENDATION RANKING

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	3W3				o,	8		20			V.M.E.		-
	NO.3 SCHEME			8	(7.32+0.76)X75+606.0	000101 10061 X 0.900	P3	0.0	-{	22 X 32500+ #3000	2704400 (4462 #/M ²)		
	Ň	- 500T 502 VIS			(7.32+0.	606.0 X	- - -	10.0		22 X 32	27044		
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ROUTE	SCHEME	0124 502 VIS 8	266 233 ↓ ↓ 1 233 ↓ ↓ 1		60+484.0	400	A R	6.0	-	8	-{-₩-}-= 0+		
FOR	NO. 2	30 50 50 50 50 50 50 50 50 50 50 50 50 50		954	(7, 52 +0,76) X 60+ 484,0	484.8 X 1730 + 848400	e e	0 2 0 0	_ `	19 X 32500 + 617500	2204900 (4546 4/		
Stuby		0+2 + 502 ¥15			(2)	8.404 8.404	ē.	0 0 0	- `	×€	Ň		
COMPARATIVE				 	ž	00	۲.						
COMPA		00 + 50 = 100 - 10	<u>ן דו פ</u> ≍וע		6 PC50-60-M54	1777.6 X 1730 + 404X 1900-4969.6 X 3930 + 1436.4 X 7230+20,81,900		0.6	- `:				
	SCHEME	6 4 6 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 5 7		56	10 - 40+ 1969.	90 + 1456.4 X	1 P4 P6 P6 P6	0 19 = 32.0	-	0176600	(LH /= 0		: :
	NO. I S	101AL BRIDGE LENGTH 370 20003+60+35+ 8 0 20 -160 30+80 31 - 60	PCSG	PC0 PC50	PC0-20+1777.6 PC0-25+404 PC30-40+1969.6	5CX9'696+ 00	2, 9, 9, 8, 1	0.0m2.0	1.	\$6X 52800 +44 X 46700+ 5176800	20063700 (6510 m/ M)		
	_	101AL	L		1777.6 100-	730 + 404X I9			-	X 52800 ++	292		
		0111572 715				1777.6X II	A. A2	9.0 540000		8			· .
			Z		BRIDGE AREA (nt.		ABUTIMENT OR PIER	() ()	0	ST 0	0+		
			TYPICAL CROSS SECTION	3477	BRIDGE A	COST D	ABUTMEN	HEIGHT	SUB-TOTAL	FOUNDATION COST	0+0+0 +0	1 Z	
		а С С С С С С С С С С С С С С С С С С С	TYPICAL CROSS SE	- 1 1 1 1 1	1301						TOTAL	COMMENT	DECANAGE LAWION
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÷ 1 /						COMPARATIVE		STUDY	- ü	ROUTE	K L		-	,	Ne.	-
2.1		· [: · .	4 0 X		SCHEME		-	Ö Z	Ú	SCHEME	1		~	NO.6 SC	SCHEME	•
ũ	PROFILE	1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ş	0501 902 V15 0 0 0	1	3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$	PCG (30.0		3		5 280 4 902 VIS		\$ <u>2851902915</u>	
2 Q	TYPICAL CROSS SECTION			PC6 8.54 X X		· -										
-	3d/1			20				-	20					S BCC		
ارد دا ارد دا	BRIDGE		(7,52 +6	(7.52 +0.76)×50 + 404.0	04.0		PCG = 30+969.6	900.6		PCG = 20 = 484.8	84,8		- 25.7)	(7.32+0.76) X 100+808	808	
10			404 X IS	404 X 1900+ 767600			040	-000 × 9.	009.6 X 2000+484.8 X 1750 + 2787600	0 + 278760	0		X	000 X 17 304 14 14000	00	
21	ABUTHENT OR PIER	4,	•	- * *			, , , , , , , , , , , , , , , , , , ,		••••	4 . 9 -	"v	Ā	ă	Pre	a	4
	HEIGHT (m.)	0°5	0	0			╞─╂╴	0 •	0	8.0 12.0		0.2	0.0	16.0	18.0	0.0
	SUB-TOTAL	00000	000 49	200002			313000	157000	802	00000	20000	345000	135000	2 X 2 10000	230000	280000
٦č								-	00000					1=1 0000		
o I d			32300 X	32300 X 11 - 557500	4.1		46700 X	-2 + 32500	42 +32500 x 21 + 2045900	3900						
2	+ 9 +		16071	1.00100 (4379 V M)	(Wr)			64070	6497900 (4467	(~~~)~~			28240	2824000 (3695		
-	CO M ME N 1				-											
1 X	DECOMMENDATION RANKING															
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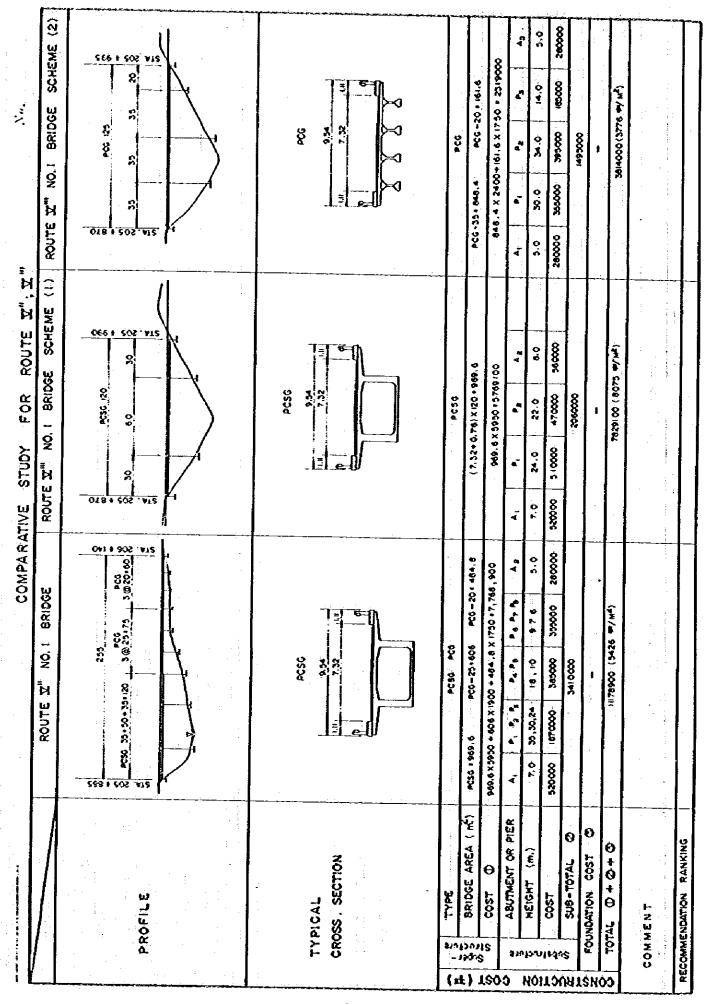
			•		COMPARATIVE	STUDY	<u> </u>	BRIDGE X'-					
		NO. 1	SCHEME	Ψ		_	NO. 2 SC	SCHEME		SX N	NO. 3 SCHI	SCHEME	
	PROFIL FL FL		PC50 18	503 + 502 VIS		505 + 502 VIS	30	509 + 502 ×115					
	TYPICAL CROSS . SECTION		PCS6				15 8 22 A						
	3477		PCSO				1 5						
	2 - BRIDGE AREA (MC)	609+001X(92+0'48)	K 100+606			1	909						
	Second D	808X3600 524 500	24600			808X120	808X 12050 + 9756400						
		A1 P+		A.2	. A.	•	A						
	t HEIGHT (m.)	6.00 IT.00	13,00	. 6,00	0.0 0	25.00	10,00						
175	5	570000 370000 2	280000 51	570000	235000	40000	000055	-	 			i.	
	SUB-TOTAL O	1	1795.000				1420000		 				
	POUNDATION COST O												
	TOTAL 0 + 0 + 0	3	6319800 (7822 #/ M ²)	(an/ma)		3	11206400 (15869 m/ MF)	(ym/sa					
ບ 1	COMMENT										-		
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PCC0	PECOMMENDATION RANKING												1

		SCHEME	NO. 2 SCHEME		ŃÖZ	SCHEME	
•	92 92 93 92 93 93 93 93 93	\$09+ \$02 214 \$500 + \$02					
CROSS SECTION CROSS SECTION	PCC						
re TYPE	900						
25 BRIDGE AREA (m2) (7.33	(7.32 +0.76) X 40+325.2						
COST D	323.2 × 1750 + 565600	•					
ABUTHENT OR PIER	v v			-			Τ
8 8	8 8						
SUB-TOTAL C				-			Τ
TION COST	•						T
TOTAL 0 + 0 + 0	1260600 (13900 - M ^B)	("M /- 00					Γ
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