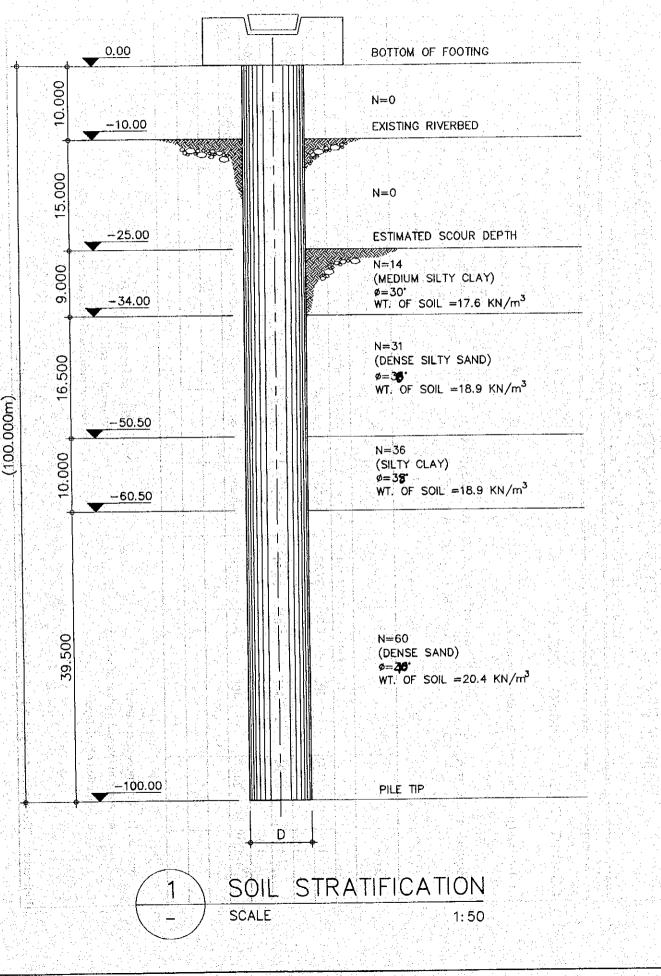
(2) SUBSTRUCTURE

1-1. DESIGN OF MAIN BRIDGE

MAIN PIER-1 ANALYSIS of coping, footing and piles

STAAD ANALYSIS

SOIL SPRING CONSTANTS FOR THE BORED PILES



한국 학생님, 김 사람은 가슴이 주셨는 것

71.

COMPUTATION OF SPRING CONSTANTS A. Horizontal Modulus of Subgrade Reaction, K ₄ :	O Date	e. Ja	January 18, 2000	00	ate January 18, 2000 Designed by		2006	Checked by		
A. Horizontal Modulus of Subgra	NG COL	NSTANTS					Pile Input Parameter	arameter		
A. HOULZUILLAI MUUUUUUU VI JUUE	ade React	on. K. :					Pile (C-Circ., R-Rect.) Pile Diameter, B =	R-Rect.) = B =	С 2.50 m.	
		ſ					Size Factor, C _m =	II.	1.25 m.	
Formation : $\mathbf{K} = \mathbf{A} + \mathbf{B} \cdot \mathbf{X} \mathbf{Z}^{\mathbf{n}}$	"	where : A	1	$= F_{w1}C_{m}C(exN_{e} + 0.5xyxBxN_{y})$	(BxN ₁) C = 40		Shape Factor, F _{w1} = share Factor F =	H 1	1.50 3 20	
		мÎ ,	, = F _{w2} C _m C (xxر ^۱ ۷xt) ∎		Soil Depth Exponent,	w ² ponent, n =	0.6	
Laver		0	Å	Ň	Å		Z	Nq	B	
	T N N	t e A	1 1 u n i	ts are	in KN,	ло Е	SI units	S		an diama an
loo l		000	37.20	19.70	14,406	7.80	2.47	22.50	69,235	83,640
	38	0.00	80.54	77.20	65,861	9.10	5.52	65.34	525,308	591,169
	30	000	80.54	77.20	65,861	9.10	$\tau \tau \eta$	65.34	739,470	805,331
	40	000	95.70	100.40	99,773	10.60	9.88	81.30	1,362,458	1,462,231
	40	0.00	95.70	100.40	99,773	10.60	12:30	81.30	1,695,357	1,795,130
									× ×	
					Nc. Nv. No = soil parameters	soil parameter				
where : H = thickness of soil layer	layer									
ϕ = angle of internal friction of soil layer c = cohesion of soil layer	friction of aver	soil layer			$\gamma_w = unit weight of some k_s = horizontal modulus$	nt or sour	$\gamma_w = unit$ weight of soli k ₅ = horizontal modulus of subgrade reaction	ioi		

7) 3

in (s. 1915)

		Date	Jaiuary 18, 2000		Designed by			Checked by	
B. Spring Constant, K = K _i + K _i ' Use average end are	istant, K = K _i + K _i ' Use average end area formula :	.	K _i = BH/6(2k _{si} + k _{si} .)	+ k _{si} .l)		where :	: B = Diameter of the Pile	of the Pile	
			$K_{i}^{*} = BH/6(2k_{s,i} + k_{s,i+1})$	si + k _{sit} i)			H = Thickness of Segment	of Segment	
Layer	Node	(.m)	Depth (m.)	X	Group Action	Effective ks	K	K, K	K=K _i +K _i
		0.00	00.0	11,949	0.65	7,767	0	14,562 14,562	562
	2	1.50	1.50	11,949	0.65	7,767	14,562	14,562 29,125	125
Î	E	1.50	3.00	11,949	0.65	7,767	14,562	14,562 29,125	125
,er	4	1.50	4.50	11,949	0.65	7,767	14,562	14,562 29,125	125
(6.1	2	1.50	6.00	11,949	0.65	7,767	14,562	14,562 29,125	125
	9	1.50	7.50		0.65	7,767	14,562	23,052 37,614	614
	L	1.50	00.6	11,949	0.65	21,350	31,541	48,520 80,061	061
	8	1.50	10.50	53,743	0.65	34,933	57,009	65,499 122,508	2,508
	6	1.50	12.00	53,743	0.65	34,933	65,499	65,499 [30,998	0,998
	10	1.50	13.50		0.65	34,933	65,499	65,499	130,998
	=	1.50	15.00	53,743	0.65	34,933	65,499	65,499 130	130,998
Z	12	1.50	16.50		0.65	34,933	65,499	65,499 130,998	966.0
\er	13	1.50	18.00	53,743	0.65	34,933.	65,499	65,499 130,998	0,998
ŗs.l	14	1.50	19.50		0.65	34,933	65,499	65,499	130,998
	15	1.50	21.00	3	0.65	34,933	65,499	65,499	130,998
	16	1.50	22.50	53,743	0.65	34,933	65,499	65,499	130,998
	1	1.50	24.00		0.65	34,933	65,499	87,299 152,798	2,798
	18	1 50	25.50		0.65	69,813	109,099	87,266 196,365	6,365

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		Date	January 18, 2000		Designed by		anuary 18, 2000 Designed by	Checked by
Layer	Node	Н (m)	Depth (m.)		Group	Effective k,	Ŕ	K; K=K+K;
		2.00	27.50	161,066	0.65	104,693	232,666	261,733 494,398
) 00	2.00	29.50	161,066	0.65	104,693	261,733	261,733 523,465
	10	2.00	31.50	1.0	0.65	104,693	261,733	261,733 523,465
увJ	2 .	2.00	33.50		0.65	104,693	261,733	257,713 519,445
		2.00	35.50	161,066	0.65	99,869	253,693	245,653 499,345
	r7	2.00	37.50		0.65	95,045	241,633	237,613 479,245
	7	2 00 2 00	39.50	1	0.65	95,045	237,613	237,613 475,225
	26	2.00	41.50	1.5	0.65	95,045	237,613	237,613 475,225
	5 7	2 00	43.50	146,223	0.65	95,045	237,613	237,613 475,225
	2,7 7,8	2 00	45.50		0.65	95,045	237,613	237,613 475,225
тэүг	00	2 00	47.50		0.65	95,045	237,613	237,613 475,225
	20	00 C	49.50	146,223	0.65	95,045	237,613	237,613 475,225
	31.5	2.00	51.50		0.65	95,045	237,613	237,613 475,225
		2.00	53.50		0.65	95,045	237,613	246,629 484,241
		2.00	55.50	146,223	0.65	105,864	255,645	176,440 432,085

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and the state of the second	282,693	291,709	291,709	291,709	291,709	291,709	291,709	291,709	291,709	291,709	
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SPRING CONSTANTS

								80,759	361,778	497,473	1,156,368	1,423,916							-
OGE		C	2.00 m. 1.25 m.	1.50 3.20	0.6	.		69,235	332,840	468,535	1,094,994	1,362,542	1						
E. BRU checked by	arameter	-Rect) =				N.		22.50	41.40	41.40	65.34	65.34							
R TLEID ASE 2	Pile Input Parameter	Pile (C-Circ., R-Rect.)	Pile Diameter, B Size Factor, C _m	Shape Factor, F _{w1} = Shape Factor F _{w2} =	Soil Depth Exponent, n		$\mathbf{I} \sim \mathbf{u} \cdot \mathbf{n} \cdot \mathbf{i} \cdot \mathbf{t} \cdot \mathbf{s}$	2.47	5.52	7.77	9.88	12.30						igrade reaction	
ON O NA-PH	Ä	Pil	Pi Si	S 1 S 1	Š		I O T S I	7.80	9.10	9.10	10.60	10.60				l parameters.	of soil	odulus of sub	
THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA - PHASE 2 Date January 11, 2000 [Designed by Checked by C	(1) A state of the state of			3xN,) C = 40			i n KN, m	11,525	28,938	28,938	61,374	61,374				Nc, Ny, Nq = soil parameters.	$\gamma_w = unit weight of soil$	k, = horizontal modulus of subgrade reaction	
ONST RRUPSA				where : $A_a = F_{wi}C_mC(cxN_c + 0.5x\gamma xBxN_r)$ $B_s = F_{w2}C_mC(\gamma xN_a)xZ^n$			tsare	19.70	42.40	42.40	77.20	77.20				N	Υ.		
THE CC THE RIVER January 11, 2000	8			$\mathbf{A}_{s} = F_{w1}\mathbf{C}_{m}\mathbf{C} (\mathbf{c}\mathbf{x}\mathbf{N}_{c} + 0 \\ \mathbf{B}_{s} = F_{w2}\mathbf{C}_{m}\mathbf{C} (\gamma \mathbf{x}\mathbf{N}_{q})\mathbf{x}\mathbf{Z}^{n}$		Å.	AII u n i 1	37.20	57.80	57.80	80.54	80.54							
DY ON OVER T Date 1	INSTANT		ction, K, :	where: A			ote : A	0.00	00.0	0.00	0.00	0.00					of soil layer		
	PRING CO		subgrade Rea	B _x Z ¹		Φ	N	30	35	35	38	38			a shakarar	f soil layer	smal friction c	soil layer	
THE	COMPUTATION OF SPRING CONSTANTS		A. Horizontal Modulus of Subgrade Reaction, K. :	Equation : $K_s = A_s + B_s x Z^n$				00.6	16.50	 10.00 	20.00	20.00				where : H = thickness of soil layer	ϕ = angle of internal friction of soil layer	c = cohesion of soil layer	
Job No	MPUTAT		Horizontal]	Equation :		Layer		1.00	2.00	3.00	4.00	5.00				where : H -	= ∲		经正式 的复数分子 化分子 化合合合金 化分子化合金 计分子计算机 化合金 化合金化合合金化合合金 电电

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BG				K=K,+K;	4,326 4,326 /	4,326 8,653 / /	4,326 8,653	4,326 8,653 ~ ``	4,326 8,653 /	5,661 9,987 - /	9,664 16,660 - /	12,333 23,332 / /	12,333 24,667	12,333 24,667 -	12,333 24,667	12,333 24,667 /	12,333 24,667	12,333 24,667	12,333 24,667 / /	12,333 24,667	16,496 28,830 /	16,548 37,207
	Checked Dy	of the Pile	s of Segmen	Х	4,32	4,32		4,32			9,66		12,33	12,33	12,33	12,33	12,33	12,33	12,33	12,33	16,49	
		where : $B = Diameter of the Pile$	H = Thickness of Segment	Z.	0	4,326	4,326	4,326	4,326	4,326	6,995	10,999	12,333	12,333	12,333	12,333	12,333	12,333	12,333	12,333	12,333	20,659
ULNA - P		where :		Effective	2,884	2,884	2,884	2,884	2,884	2,884	5,553	8,222	8,222	8,222	8,222	8,222	8,222	8,222	8,222	8,222	8,222	16,548
A INUC	Designed by			Group	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
R RUP	0	+ $k_{s,i-1}$)	$(\mathbf{k}_{\mathbf{s},\mathbf{i+1}})$	Ł	11,537	11,537	11,537	11,537	11,537	11,537	11,537	32,889	32,889	32,889	32,889	32,889	32,889	32,889	32,889	32,889	32,889	32,889
L T L L HE RIV	Jamary 11,2000	$K_i = BH/6(2k_{s,i})$	K,' = BH/6(2k _s ,	Depth (m)	00.0	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00	22.50	24.00	25.50
		ula :		H (m)	0.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	0.1.50	1.50	1.50	1.50	1.50 S
	i + Ki	Use average end area formula		Node		2		4	1. 1. 5 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	9	1	8	6	10	11	12	13	14	15	16	17	18
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K=K _i +K _i	93,944	99,495 /	99,495	51,092 100,840	55,128 107,566	57,818 114,292	57,818 115,637	57,818 115,637	57,818 115,637	57,818 115,637 /	57,818 115,637	57,818 115,637	57,818 115,637 /	60,048 117,866	43,005 105,282
	49,747 93,944	49,747 99,495	49,747 99,495	51,092	55,128	57,818	57,818	57,818	57,818	57,818	57,818	57,818	57,818	60,048	43,005
$\mathbf{K}_{\mathbf{i}}$	44,197	49,747	49,747	49,747	52,438	56,473	57,818	57,818	57,818	57,818	57,818	57,818	57,818	57,818	62,278
Effective k,	24,874	24,874	24,874	24,874	26,891	28,909	28,909	28,909	28,909	28,909	28,909	28,909	28,909	28,909	32,254
Group Action	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	99,495	99,495	99,495	99,495	99,495	115,637	115,637	115,637	115,637	115,637	115,637	115,637	115,637	115,637	115,637
Depth (m)	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50	45.50	47.50	49.50	51.50	53.50	55.50
H (m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
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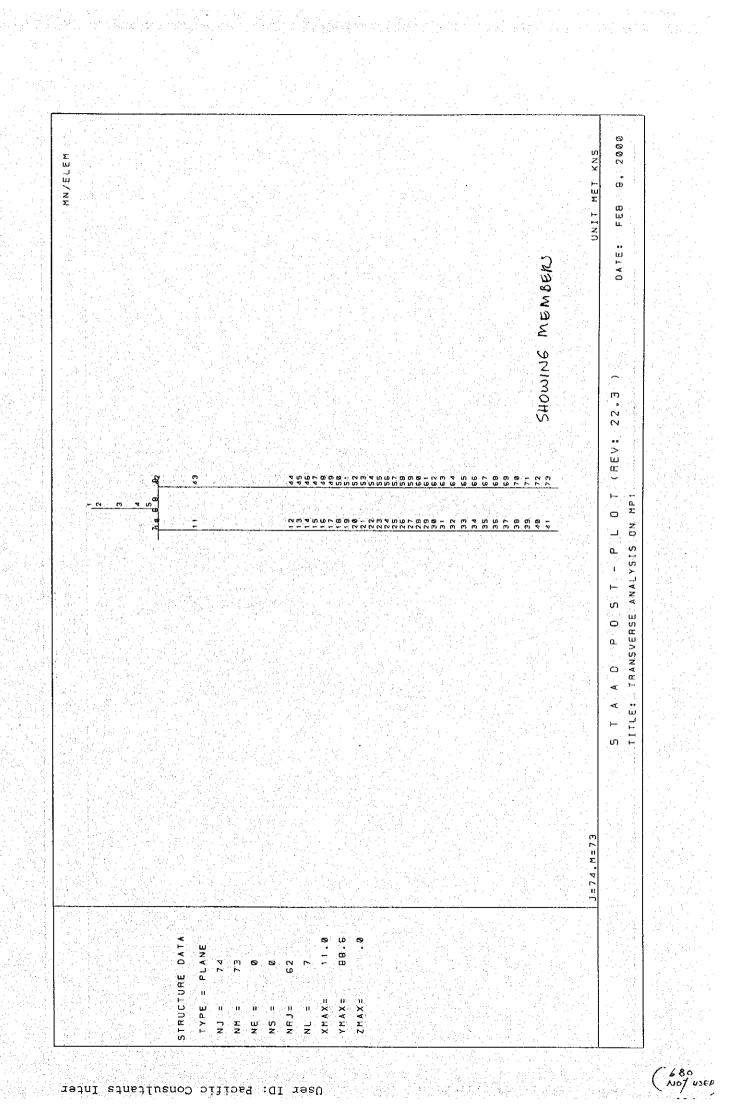
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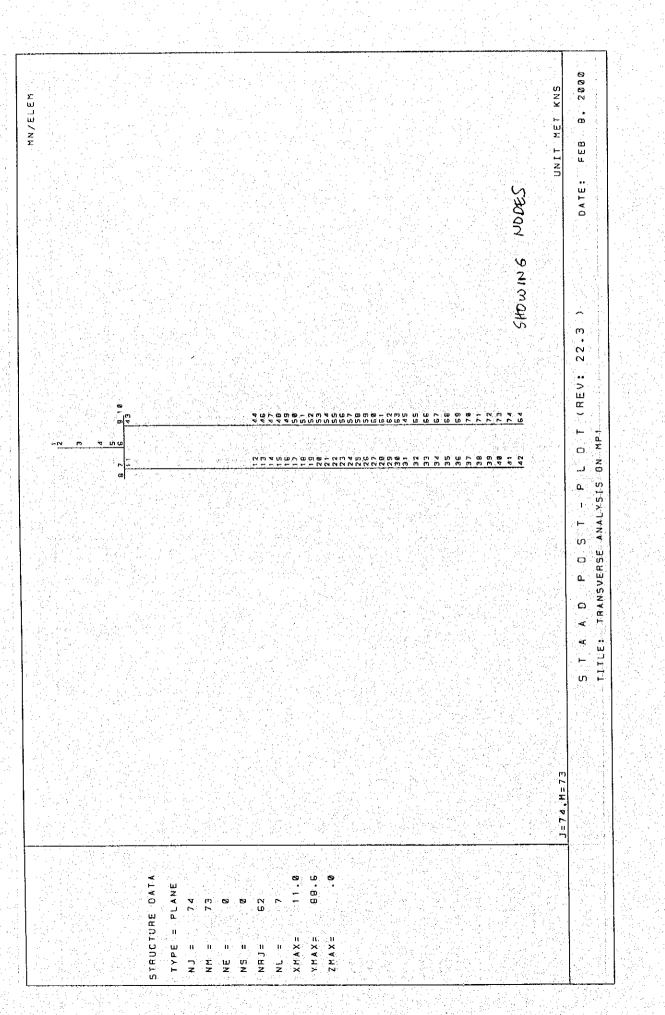
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57.50 142,392 0.25 35,598 68,966 59.50 142,392 0.25 35,598 71,196 61.50 142,392 0.25 35,598 71,196 63.50 142,392 0.25 35,598 71,196 63.50 142,392 0.25 35,598 71,196 65.50 142,392 0.25 35,598 71,196 65.50 142,392 0.25 35,598 71,196 67.50 142,392 0.25 35,598 71,196 69.50 142,392 0.25 35,598 71,196 71.50 142,392 0.25 35,598 71,196 73.50 142,392 0.25 35,598 71,196 73.50 142,392 0.25 35,598 71,196 75.60 142,392 0.25 35,598 71,196	140,162	142,392	142,392	142,392	142,392	142,392	142,392	142,392	142,392	142,392
57.50 142,392 0.25 35,598 59.50 142,392 0.25 35,598 61.50 142,392 0.25 35,598 63.50 142,392 0.25 35,598 63.50 142,392 0.25 35,598 63.50 142,392 0.25 35,598 65.50 142,392 0.25 35,598 67.50 142,392 0.25 35,598 69.50 142,392 0.25 35,598 71.50 142,392 0.25 35,598 73.50 142,392 0.25 35,598 73.50 142,392 0.25 35,598	71,196	71,196	71,196	-	71,196		71,196	71,196	71,196	71,196
57.50 142,392 0.25 59.50 142,392 0.25 61.50 142,392 0.25 63.50 142,392 0.25 65.50 142,392 0.25 67.50 142,392 0.25 67.50 142,392 0.25 67.50 142,392 0.25 71.50 142,392 0.25 73.50 142,392 0.25 73.50 142,392 0.25 73.50 142,392 0.25	68,966	71,196	71,196	71,196	71,196	71,196	11,196			71,196
57.50 142,392 59.50 142,392 61.50 142,392 63.50 142,392 65.50 142,392 67.50 142,392 69.50 142,392 71.50 142,392 75.50 142,392	35,598	35,598	35,598	35,598	35,598	35,598	35,598	35,598	35,598	35,598
	0.25	0.25	0.25	0.25	0.25	0.25	0.25		ļ	0.25
	142,392	142,392	142,392	142,392	142,392		142.392	142.392	142.392	142 392
34 2.00 35 2.00 36 2.00 37 2.00 38 2.00 39 2.00 40 2.00 41 2.00 42 2.00	57.50	59.50	61.50	63.50	65.50	67.50	69 50	71.50	73.50	75 50
34 35 36 37 37 40 41 42	2.00	2 00	2.00	2.00	2.00		00 0	2 00	2.00	00 6
	34	- 25	96	37	38	30	UY.	14	C7	2

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THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Designed by Checked by

MAIN PIER-1 TRANSVERSE ANALYSIS

Date

February 8, 2000

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MEMB	LOAD NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM
wrwpi	LOAD	<u></u>	OLICAN (1		reneren		
1	5 1	7,510.37	2,172.33	0.00	0.00	0.00	-11,282.0
	2	-8,394.89	-2,172.33	0.00	0.00	0.00	13,443.5
	6 1	10,931.21	2,172.33	0.00	0.00	0.00	-11,282.0
	2	-12,110.57	-2,172.33	0.00	0.00	0.00	13,443.5
		12,857.72	985.26	0.00	0.00	0.00	-4,485.
	이 학교 같이 가지 않는 것 같아요. 이 것		and the second		1. Sec.	tyr e le l	
	2	-14,037.08	-985.26	0.00	0.00	0,00	5,472.
사람이 있는 물건이 있					0.00	0.00	10.065
2	5 2,	8,394.32	1,987.35	0.00	0.00	0.00	-13,355.
	3	-9,461.36	-2,088.62	0.00	0.00	0.00	21,090.
$n \in \{1, 2\}$, $n \in \{1, 2\}$	6 2 .:	12,109.80	1,987.35	0.00	0.00	0.00	-13,355.
	3 .	-13,532.52	-2,088.62	0.00	0.00	0.00	21,090.
	ge 2 − 7 ., et at et el 2	14,036.27	927.68	0,00	0.00	0.00	-5,442.
hen Massi	3	-15,458.99	-958.06	0.00	0.00	0.00	9,021.
	영화 등을 감독하는 것을 받았다.						
3	5 3	9,461.26	2,089.51	0.00	0.00	0.00	-21,093
	4	-10,570.42	-2,194.78	0.00	0.00	0.00	29,546.
	6 3	13,532.40	2,089.51	0.00	0.00	0.00	-21,093
	4	-15,011.28	-2,194.78	0.00	0.00	0.00	29,546.
	7 3	15,458.93	958.47	0.00	0.00	0.00	-9,022
	4		-990.05	0,00	0.00	0.00	12,868.
		-10,237.01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		10,570.49	2,198.53	0.00	0.00	0.00	-29,541
4	5			0.00	0.00	0.00	34,664.
	8 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1	-11,216.33	-2,259.83		なかない ひん たいせい	0.00	-29,541
	6 4	15,011.35	2,198.54	0.00	0.00		
	5	-15,872.47	-2,259.83	0.00	0.00	0.00	34,664
	7 3 - 4 -	16,937.78	990.32	0.00	0.00	0.00	-12,867
法公共工作。	1997 - Barger Barl 5 1	-17,798.90	-1,008.71	0.00	0.00	0.00	15,165
5	5 5	11,216.26	2,243.93	0.00	0.00	0.00	-34,673
	6	-11,637.46	-2,243.93	0.00	0.00	0.00	38,041
	6.5.	15,872.40	2,243.92	0.00	0.00	0.00	-34,673
		-16,434.00	-2,243.92	0.00	0.00	0.00	38,041
	7 5	17,798.89	1,005.67	0.00	0.00	0.00	-15,168
	6	-18,360.49	-1,005.67	0.00	0.00	0.00	16,677
							an said
6	5 6	-1,042.26	4,431.62	0.00	0.00	0.00	-6,231
Ť	2	1,042.26	-1,535.87	0.00	0.00	0.00	17,423
	6 6	-1,028.62	2,033.34	0.00	0.00	0,00	-16,320
	7	1,028.62	1,827.66	0.00	0.00	0.00	16,709
		-389.56	-4,331.65	0.00	0.00	0.00	30,513
	7		and the second second	0.00	0.00	0.00	7,031
	(11) (12) (12) (12) (12) (12) (12) (12)	389.56	8,192.65	0.00	0.00	0.00	1,001
백양 것 같은 것				0.00	0.00	0.00	1 107
9. s. 7 . s.	5 7		1,350.80	0.00	0.00	0.00	1,182
	8	1.55	0.55	0.00	0.00	0.00	-0
	6 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i,801.23	0.00	0.00	0.00	1,576
12月1日 - 19月1日	8	the second s	0.57	0.00	0.00	0.00	-0
	7 7		1,801.54	0.00	0.00	0.00	1,576
8 8 1 2	8	0.61	0.26	0.00	0.00	0.00	-0
经公司通知			ala an tara				
8	5 6	1,214.63	-16,069.04	0.00	0.00	0.00	-44,275
	9	-1,214.63	18,964.79	0.00	0.00	0.00	-21,410
an Neongan Sang Alah Sang Sang Sang	6 6	 A set for the set of the 	-18,467.31	0.00	0.00	0.00	-54,364
	9		. 22,328.31	0.00	0.00	0.00	-22,124
n en slotting Bander Steaditio	7 6	618.99	-14,028.85	0.00	0.00	0.00	-47,190
	gi (이 같은 것이 가지 않는 것이 같아요.	17,889.85	0.00	0.00	0.00	-12,656

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9	5	9	0,42	1,350.91	0.00	0.00	0.00	1,182.
		10	-0.42	0.44	0.00	0.00	0.00	-0.
	6	9 10	0.42 -0.42	1,801.26 0.54	0.00 0.00	0.00 0.00	0.00 0.00	1,576. -0.
	7	9	-0.42	1,801.44	0.00	0.00	0.00	1,576.
a a sa a sa gara		10	0.01	0.36	0.00	0.00	0.00	-0,
10	5	7	-184.54	1,176.84	0.00	0.00	0.00	18,604.
10		11	-19.40	-1,184.80	0,00	0.00	0.00	-16,848.
	6	7	3,629.43	1,163.21	0.00	0.00	0.00	18,284.
		11	-3,901.35 9,994.42	-1,171.17 524.04	0.00	0.00 0.00	0.00 0.00	-16,548. 8,607.
	7		-10,266.34	-532.00	0.00	0.00	0.00	-7,818.
11	5	11	19.40	1,184.15	0.00	0.00	0.00	16,847.
		12	-3,282.39	-1,311.45	0.00	0.00	0.00 0.00	12,649. 16,547.
	6	11 12	3,901.35 -8,252.00	1,170.52 -1,297.81	0.00 0.00	0.00	0.00	12,623.
	7	n	10,266:35	531.68	0.00	0.00	0.00	7,818.
		12	-14,617.00	-658.98	0.00	0.00	0.00	6,325.
	(1944) 1970 - System 1971 - System	Alter of	2 707 74	924.71	0.00	0.00	0.00	•12,6 5 0.
12	3	12 13	3,282.34 -3,486.28	924.71 -924.71	0.00	0.00	0.00	14,014.
	6	12	8,251.95	913.46	0.00	0.00	0.00	-12,623.
ang sa talah sa sa sa sa		13	-8,523.86	-913.46	0.00	0.00	0.00	13,970.
	7	12	14,616.96	465.01	0.00	0.00	0.00	-6,325.
		13	-]4,888.88	+465.01	0.00	0.00	0.00	7,015.
13	5	13	3,486.30	323.36	0.00	0.00	0.00	-14,014.
		14	an and the second	-323.36	0.00	0.00	0.00	14,478.
	6	13	8,523.88	316.00	0.00	0.00	0.00	-13,970.
	7	14 13	-8,795.80 14,888.90	-316.00 163.14	0.00	0.00	0.00 0.00	14,423. -7,015.
		15	-15,160.81	-163.14	0.00	0.00	0.00	7,252.
14	5 - S	14	3,690.26	-129.04	0.00	0.00	0.00	-14,478.
	6	15 14	-3,894.20 8 795 84	129.04 -133.33	0.00 0.00	0.00 0.00	0.00 0,00	14,268 -14,423
		14 15	8,795.84 -9,067.75	133.33	0.00	0.00	0.00	14,206
	7	14	15,160.84	-63.94	0.00	0.00	0.00	-7,252
		15	-15,432.76	63.94	0.00	0.00	0,00	7,150
15	5	15	3,894.22	-454.65	0.00	0.00	0.00	-14,268
		16	-4,098.16	454.65	0.00	0.00	0.00	13,571
	6	15	9,067.78	-456.59	0.00	0.00	0.00	-14,206
		16	-9,339.69	456.59	0.00	0.00	0.00 0.00	13,507
	7	15 16	15,432.77 -15,704.69	-227.41 227.41	0.00 0.00	0.00 0.00	0.00	6,804
16	5	16	4,098.15	-675.55	0.00	0.00	0.00	-13,571
		17	-4,302.08	675.55 -675.79	0.00	0.00	0.00 0.00	12,547 -13,507
建制度	6	16 17	9,339.68 -9,611.60	675.79	0.00	0.00	0.00	12,481
	7	16	15,704.69	-338.31	0.00	0.00	0.00	-6,804
	Maria di Kabupatén K Kabupatén Kabupatén K	17	-15,976.60	338.31	0.00	0.00	0.00	6,292
	3	17	4,302.11	-940.16	0.00	0.00	0.00	-12,54
17		18	-4,506.05	940.16	0,00	0,00	0.00	11,12
	6	17	9,611.63	-938.13	0.00	0.00	0.00	-12,48]
의 성상, A. 이상의 1983. 전문 전 1985.		18	-9,883.54	938.13	0.00	0.00	0.00	11,065
		1.11.11		나는 사람은 사람을 통하				

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			s ti i s s. Generation						
	THE	STUDY	ON T	HE CON	STRUCT	TON OF	THE B	RIDCE	
					PSA IN KI		X. 199. 189. 189. 189.		
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		_			gel d'Arg	0.00		0.00	< 000 70
d per la			17 18	15,976.62	-471.22 471.22	0.00	0.00	0.00	-6,292.73 5,582.70
						an ta Xilan		n General territ	
ng staats Line is	18	5	18	4,506.05	-1,081 71	0.00	0.00	0.00	-11,128.01
r i di i		6	19 18	-4,709.99 9,883.55	1,081.71	0.00	0,00	0.00	9,499.04 -11,065.74
n Niziri	^V isters		19	-10,155.46	1,078.25	0.00	0.00	0.00	9,441.87
		7	18	16,248.54	-542.37	0.00	0.00	0.00	-5,582.70
			19	-16,520.45	542.37	0.00	0.00	0.00	4,766.78
	19	5	19	4,709.95	-1,203.39	0.00	0.00	0.00	-9,499.05
			20	-4,913.89	1,203.39	0.00	0.00	0.00	7,689.63
국 가격 신다. 국민국가 1일 년	n Andrean De anna	6	19	10,155.42	-1,198.08	0.00	0.00	0.00	-9,441.88
		7	20 19	-10,427.33 16,520,42	1,198.08 -603.64	0.00 0.00	0.00 0.00	0.00	7,640.35
			20	-16,792.33	603.64	0.00	0.00	0.00	3,859.70
						19 North			
	20	5	20	4,913.89	-1,182.30	0.00	0.00	0.00	-7,689.62
		6	21 20	-5,117.83 10,427.34	1,182.30	0.00 0.00	0.00	0.00	5,913.49 -7,640.34
112 C. (이 이 문 이 3	21	-10,699.25	1,176.25	0.00	0.00	0.00	5,873.24
er en senten Notes en senten	in an an Allandi. Na Anna Allandi.	7	20	16,792.33	-593.21	0.00	0.00	0.00	-3,859.70
i neva hiji Ve Norki A	나 나가 가 아름다 관	니에는 관람을 수 이 사람이 없는 것	21	-17,064.24	593.21	0.00	0.00	0.00	2,968.86
	21	5	21	5,117.84	-1,072.73	0.00	0.00	0.00	-5,913.48
			22	-5,321.78	1,072.73	0.00	0.00	0.00	4,302.96
		6	21	10,699.27	-1,066.69	0.00	0.00	0.00	-5,873.24
a estan Statistica		7	22	-10,971.19	1,066.69	0.00	0.00	0.00	4,271.73
iga ta ka k		7	21 22	17,064.27 -17,336.19	-538.33 538.33	0.00 0.00	0.00	0.00 0.00	-2,968.86 2,160.81
				-11,550,15		0.00	0.00	0.00	2,100.01
t status Danastra	22	5	22	5,321.73	-916.54	0.00	0.00	0.00	-4,302.97
		an a	23	-5,525.66	916.54	0.00	0.00	0.00	2,927.68
		6	22 23	10,971.13	-911.00 911.00	0.00	0.00	0.00	-4,271.74 2,904.73
-		1 1 2.1	22	17,336.13	-460.01	0.00	0.00	0.00	-2,160.81
			23	-17,608.05	460.01	0.00	0.00	0.00	1,470.59
							0.00	0.00	0.007.70
	23	5	23 24	5,525.69 -5,729.63	-744.35 744.35	0.00	0.00 0.00	0.00	-2,927.70
i jasti,		6	23	11,243.08	-739.57	0.00	0.00	0.00	-2,904.75
1월 21일 전 11일 12일 - 12일 - 12 12일 - 12일 - 12			24	-11,514.99	739.57	0.00	0.00	0.00	1,795.52
n an an Arthur Chailtean An An	n e en El Statut	7	23	17,608.08	-373.63	0.00	0.00	0.00	-1,470.60
	ik e		24	-17,879.99	373.63	0.00	0.00	0.00	910.18
(s_{i}, y_{i}, y_{i})	24	5	24	5,729.62	-577.11	0.00	0.00	0.00	-1,811.34
en an			25	-5,933.55	577.11	0.00	0.00	0.00	946.22
		6	24	11,514.97	-573.19	0.00	0.00	0.00	-1,795.55
A 16 13		7	25 24	-11,786.89 17,879.97	573.19 -2 8 9.71	0.00 0.00	0.00	0.00	936.32 -910.19
			25	-18,151.88	289.71	0.00	0,00	0.00	475.80
		(1997) 바라 한 다. (1997) 1993 - 1997			A COMULTANDAN NG ANG ANG ANG ANG ANG ANG ANG ANG ANG A				
	25	5	25 26	5,933.52	-427.86 427.86	0.00	0.00 0.00	0.00	-946.22 305.20
		6	26 25	-6,137.46 11,786.85	427.80	0.00	0.00	0.00	-936.32
			26	-12,058.76	424.76	0.00	0,00	0.00	299.96
ta da series National de la companya National de la companya		7	25	18,151.85	-214.81	0.00	0.00	0.00	-475.80
en e			26	-18,423.76	214.81	0.00	0,00	0.00	153.86
	42	5	9	20,316.36	1,214.08	0.00	0.00	0.00	20,228.73
			43	-20,520.29	-1,222.04	0.00	0.00	0.00	-18,391.10
		a a suite a su A suite a suite	an a						

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Description Description Description Description Description 6 9 24,150.32 1,227.72 0.00 0.00 0.00 14,001 7 9 15,601.73 611.89 0.00 0.00 0.00 11,002 43 5 43 20,520.21 1.222.88 0.00 0.00 0.00 11,601 6 43 24,920.16 1.236.18 0.00 0.00 0.00 11,691 6 43 24,920.16 1.236.52 0.00 0.00 0.00 11,891 7 43 19,953.63 622.07 0.00 0.00 0.00 11,421 6 44 24,722.16 953.02 0.00 0.00 0.00 11,421 7 44 24,781.16 953.02 0.00 0.00 0.00 1.421 6 42,794.16 953.02 0.00 0.00 0.00 1.421 7 44 24,781.16 <				******************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ADGE	
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Job No. 1	<u>al</u>	esigned by .	lo	recked by	Date	Eebu	URTY 8. 2000	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		6	0	24 130 32	1.227.72	0.00	0.00	0.00	20.548.88
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			the second se	and the second sec		-18,691.3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		7	9	A	618.89	0.00	0,00	0.00	11,079.68
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			43	-19,963.65	-626.85	0.00	0,00	0.00	-10,143.70
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			43	20 520 21	1 222 88	0.00	0.00	0.00	18 300 8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		43 J	N. 1		in the second	etter en star en ser en se	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the state of the	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		6	and the second second			이 아이는 것이 아이가 가지?	1	A CONTRACTOR OF A	18,691.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			44	-28,752.81	-1,363.81	0.00	0.00	0.00	12,851.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		7	43		627.07	0.00	0.00	and the second	10,143.7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			44	-24,314.29	-754.37	0.00	0.00	0.00	6,543.8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		a she a the	e e stat	0	062.02	0.00	0.00	0.00	10 804 0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		44 >			and the state of the second	in the second	and the second		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1997 - 1997 -							-12,850.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		•				in the second states of		and the second second	14,315.4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		7		TX 1 TX 5	and the second		ing and the state of the state	- 14 C -	-6,543.7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			46		-542.49	0.00	0.00	0.00	7,364.1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							ار دار آراز در مدارد. بر درمان در میزاند کرد مان میشود در ا		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-0.54		1						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						그는 말을 가지 않는 것이 없다.		(1) A. (2) (1) A. (3)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	inter de la ser- Constante de la ser-				n de l'Argen Maria - Al Aven				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		and the second	A						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			and a strange of the					0.00	7,686.8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			en en ser en ser Anne en ser en ser						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		46 5	47		「「「「「「」」」「「」」」」」「「」」」」」」		ta a free ander oper		-14,788.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				- M M M.			an a	1. S.	14,604.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				5 N. 1997 - 1996 - 1996	승규는 말에 있는 것을 가지 않는 것이 없다.	はんみ 見って もんたいし	the state of the second	and the second second	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.15.061.19	and the second			이상 가지 않는 것 같은 것 같은 것 같은 것	and with the state of the	 Second Age 11, 1999. 	and the second second second	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				en en la companya en esta en es	and the second	an faaf oo staat oo s	and the second		7,633.9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ng ber salasi s se ng ber sala			20,200.00					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		47 5	48	24,394.98	-466.44	0.00	0.00	0.00	-14,604.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			49	-24,598.92	466.44	0.00	0.00	0.00	13,915.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		6	48,	and the set of the set		가가 많이 많이 가지 않는 것이다.			-14,665.9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			(4) 1. (1) 1. (1)		and the second	i e e e i i i el pol	and the second second	(41) - C. A. C.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1 - 1 - 1 - 1 - 1 - 7 -	and the second sec	and the second			and the second	the state of the state of the	1 S S S S S S S S S S S S S S S S S S S
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			49	-25,401.94	219.40	0.00	0.00	0.00	7,506.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		48 5	49	24.598.97	-694.12	0.00	0.00	0.00	-13,915.3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	an a		and the second second second		그 같은 것 같아요. 가지 않는 것이 많이 많이 했다.		1 C C C C C C C C C C C C C C C C C C C	en al frenzie i Maria a	12,882.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$, 6	49	29,840.51	-693.88	0.00	0.00	0.00	-13,980.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			50				たいちょう しょう	al a sur a state	12,948.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7	A DE RECEDER DE LA COMPANIE		(a) 41.4	e por poete de la composición de la com	and the second		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ji eja se gas		50	-25,673.90	342.91	0.00	0.00	0.00	6,797.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		40 S	50	24 802 92	-066 80	0.00	0.00	0.00	-12 882
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				and the second second	かかいかい しゅうない かいかい		the second se		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						1. 月日 秋草 からえ オート 2011 - 121		and the second	-12,947.
51 -25,945.84 492.24 0.00 0.00 0.00 6,061 50 5 51 25,006.79 +1,113.02 0.00 0.00 0.00 -11,435 50 5 51 25,006.79 +1,113.02 0.00 0.00 0.00 9,774 6 51 30,384.26 -1,116.48 0.00 0.00 0.00 -11,50 52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 25,945.73 -573.58 0.00 0.00 0.00 -6,061					968.92	and the second state of the second	0.00	0.00	11,501.
50 5 51 25,006.79 +1,113.02 0.00 0.00 -11,435 50 5 51 25,006.79 +1,113.02 0.00 0.00 -11,435 52 -25,210.72 1,113.02 0.00 0.00 0.00 9,774 6 51 30,384.26 -1,116.48 0.00 0.00 0.00 -11,501 52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 25,945.73 -573.58 0.00 0.00 -6,061		7	50	25,673.93	-492.24	0.00	0.00	0.00	-6,797.
50 5 51 25,006.79 +1,113.02 0.00 0.00 -11,435 52 -25,210.72 1,113.02 0.00 0.00 9,774 6 51 30,384.26 -1,116.48 0.00 0.00 9,00 52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 25,945.73 -573.58 0.00 0.00 -6,061				-25,945.84	492.24	0.00	0.00	0.00	6,061.
52 -25,210.72 1,113.02 0.00 0.00 9,774 6 51 30,384.26 -1,116.48 0.00 0.00 9,00 -11,50 52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 25,945.73 -573.58 0.00 0.00 0.00 -6,061		and the second states of the			r de la construcción de la		A AA	A 74	11
6 51 30,384.26 -1,116.48 0.00 0.00 0.00 -11,50 52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 25,945.73 -573.58 0.00 0.00 -6,061		50 5					A 1 5 44 5 1		
52 -30,656.18 1,116.48 0.00 0.00 9,831 7 51 23,945.73 -573.58 0.00 0.00 -6,061			1	and the second	the second second second	e e e e e e e e e e	and the second second second second	승규는 것 같은 것 같아.	(1) (1) (1) (1) (1) (1)
7 51 23,945.73 -573.58 0.00 0.00 -6,06		0					しっぽう にっきやり た		9,831.
"你是我们,你们们就是我们就是你们的你,你们就是你们的你们,你们们就是你们的你?""你们,你们就是你们的你们,你们就是我们的你们都能能给你,你们不能能做了。"		7	and the second			and a second			-6,061,
	n an tai Taise an taise				Table - Second Second	and a state of the state	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0.00	5,203.

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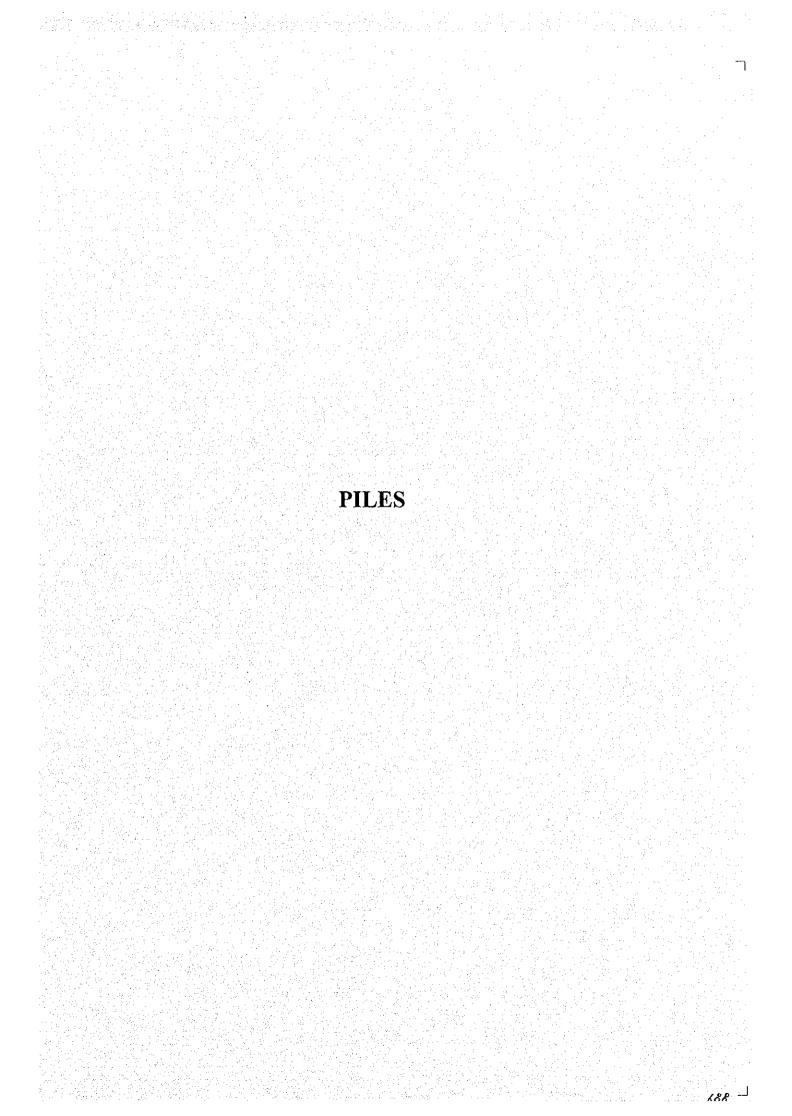
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	998.00.00.000 <i>.020.000</i> .000.000.000			PSA IN KF			abor	1
Job Na	Designer			becked by	Date		ruary 8, 200()
51		50	25 210 76	1 120 07	0.00	0.00	0.00	0 774
21	5	52 53	25,210.75	-1,238.97	0.00	0.00	0.00	-9,774.
	6	52	30,656.21	-1,244.28	0.00	0.00	0.00	-9,831.
		53	-30,928.13	1,244.28	0.00	0.00	0.00	7,968.
	7	52	26,217.69	-647.47	0.00	0.00	0.00	-5,203.
		53	-26,489.61	647.47	0.00	0.00	0.00	4,233.
								.,=
52	5	53	25,414.69	-1,217.70	0.00	0.00	0.00	-7,919.
		54	-25,618.63	1,217.70	0.00	0.00	0.00	6,094.
	6	53	30,928.13	-1,223.75	0.00	0.00	0.00	-7,968.
		54	-31,200.05	1,223.75	0.00	0.00	0.00	6,134.
	7	53	26,489.61	-641.48	0.00	0.00	0.00	-4,233.
		54	-26,761.53	641.48	0.00	0.00	0.00	3,272.
								- 14 AM
53	i i 5 .	54	25,618.64	-1,105.09	0.00	0.00	0.00	-6,094.
		55	-25,822.58	1,105.09	0.00	0.00	0.00	4,438.
	6	54	31,200.07	•1,111.12	0.00	0.00	0.00	-6,134.
		55	-31,471.99	1,111.12	0.00	0.00	0,00	4,469.
	7	54	26,761.55	-585.48	0.00	0.00	0.00	-3,272.
		55	-27,033.46	585.48	0.00	0.00	0.00	2,394.
54	5	55	25,822.59	-944.33	0.00	0.00	0.00	-4,438.
		56	-26,026.53	944.33	0.00	0.00	0.00	3,021.
	6	55	31,472.01	-949.86	0.00	0.00	0.00	-4,469
		56	-31,743.92	949.86	0.00	0.00	0.00	3,044.
	7	55	27,033.48	-502.65	0.00	0.00	0.00	-2,394
		56	-27,305.40	502.65	0.00	0.00	0.00	1,640
55	5	56	26,026.57	-766.96	0.00	0.00	0.00	-3,021
		57	-26,230.51	766.96	0.00	0.00	0.00	1,871.
	6	56	31,743.97	-771.74	0.00	0.00	0.00	-3,044
		57	-32,015.89	771.74	0.00	0.00	0.00	1,887.
	2011 7 2022	56	27,305.45	-410.00	0.00	0.00	0.00	-1,640
		57	-27,577.36	410.00	0.00	0.00	0.00	1,025
		-5						
56	5	57	26,230.41	-594.62	0.00	0.00	0.00	-1,871
		58	-26,434.35	594.62	0.00	0.00	0.00	979.
	6	57	32,015.76	-598,55	0.00	0.00	0.00	-1,887.
		58	-32,287.68	598.55	0.00	0.00	0.00	989.
	7	57	27,577.25	-319.27	0.00	0.00	0.00	-1,025.
그는 말 말 봐요.		58	-27,849.16	319.27	0.00	0.00	0.00	546.
		20	76 434 30	440 00	0 22	0.00	0.00	070
57		58	26,434.38	-440.77	0.00	0.00	0.00	-979.
		59	-26,638.31	440.77	0.00	0.00	0.00	317.
	6	58	32,287.72	-443.87	0.00	0.00	0.00	-989. 377
		59 58	-32,559.64 27,849.21	443.87 -237.83	0,00	0.00	0.00	322. -546.
	7							

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THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2 Designed by Checked by Date - Febru

February 8, 2000

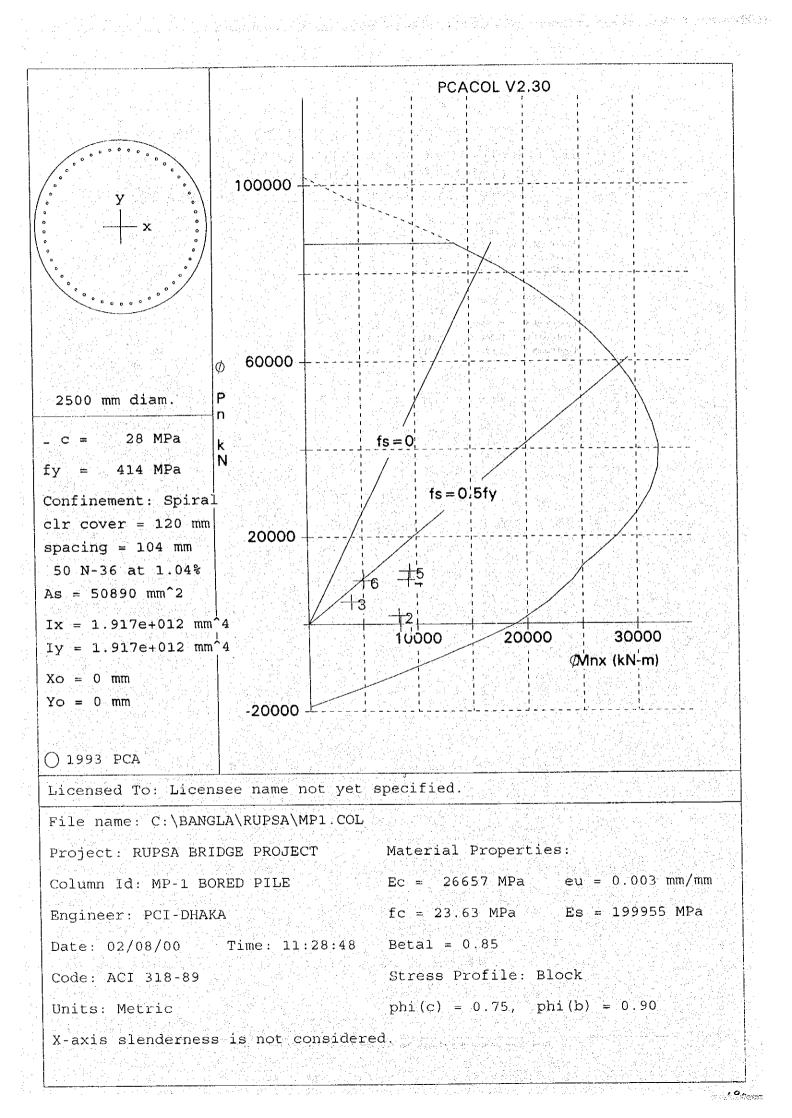
189 -

Job No. :		Designed by		necked by:
	Member # 11			
	Intellinger # 11	Pu	Mu	Vu
	Load Comb 5	9.70	8,423.83	592.11
	Load Comb 6	1,950,70	8,273.71	585.30
	Load Comb 7	5,133.20	3,909.40	265.80
	Member # 43			
		Ри	Mu	Vu
	Load Comb 5	10,260.00	9,195.40	611.44
	Load Comb 6	12,201.08	9,345.50	618.30
	Load Comb 7	9.981.80	5.071.86	313.55

(1, 3)

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Pacific Consultants International of Japan, Third Floor, Bldg. #47, DDC Center, Molchali, Dhaka 1212



	THES	STUDY O OVER TH						IDGE
Job No. :		Designed by		Checked by	ý :	D a	te :	10-Feb-00
A. MATE	RIALS AN	D DIMENSIO	NS :					

1. Concrete Strength @ 28 days, $f_c' = 30.00$	MPa
2. Min. Yied Strength of Reinf. Steel, fy = 275.80	MPa for $\phi = \text{or} < 16$
→ 413.70 -	MPa for $\phi = \text{or} > 20$
3. Diameter of Pile, D = 2.50	m.
4. Minimum Concrete Cover, c = 0.10	m.

В.	DESIGN	FORCES	:

B.1. Pile Forces

Forces	Longitudinal Direction	Transverse Direction
Mom., M _{v.} (KN-m.)		9,346
Mom., M _z (KN-m.)		0
Mom., M _{des} (KN-m.)	- 19 - 19 - 19 - 0	9,346
Shear, V _v (KN)		618

Porces	Longitudinal Direction	Transverse Direction
Shear, V _x (KN)	0 - 0	0
Shear, V _{DES} (KN)	0	618
Axial, P _{max} (KN)	an an an Arthur An Anna An Anna An	12,201
Axial, P _{min.} (KN)	$= \frac{1}{2} \sum_{i=1}^{n} $	10

Pcs.

50

D32

32

ρ(%)

1.04

D28

41

Мра

FROM PCACOL:

As

50890

As

24,544

Diam.

36

D36

25

Reinforcing Bars, $f_y = 413,700$

B.2. Main Reinforcement Required $\rho_{min} = .0075$ for upper 2/3 of pile length

Main			

Required, $r_{min} = .0050$ for lower 1/3 of pile length)

B.4. Special Pile Requirement of, AASHTO Art. 6.4.1

1. Confinement Length, $L_e = 2D$: 5.00 m.	
2. Anchorage: Max. Tension, $P = 1.25A_sf_y$. 526.37 KN	
3. Anchorage Length : (a). $L_a = 0.60^* A_b f_y / f_c^2$ 1.46 m.	
(b) $L_a = 0.000058\phi_b f_y$ 0.86 m.	$USE L_{a} = 1.46 m.$

C. TRANSVERSE REINFORCEMENT

							and the second
~ · ~			0 10 00 00	1.1.1	0 1 1 2 -	•	Ain 200 LD.
C.1. Transverse Reiforcemen		- C	Spiral Size $= 20.00$ mm.		Spiral, f,≔		413,700 kPa
C.J. JIUIAVEIAE RELIVICENCE	u		opnaroize · zo.ov mm.		opnan, x		110,700 11 4

C.1.1. Transverse Reinforcement

1. $\rho = 0.45 (A_g/A_c - 1) f_c'/f_y$ $A_{g} = 4.91$ $A_c = 4.15$ Ds = 2.28= 0.0059 $D_{c} = 2.30$

Spiral Sp. : $S_P = 4A_s/\rho D_s = 0.093$ $USE S_{P} = 0.093 m.$ Maximum Spacing : $S_P = 0.096$

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THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2						
No. :	Designed by ;	Checked by :	Date :	10-Feb-00		
1.01						
.2. Ch	neck Requirement from Shear Force :					
te u te Golo de	Shear Stresses					
	Carried by Concrete, $vc = 166(f_c')^{1/2}$	909.22 KPa	Vu ≓ ∖	618.30 KN		
	Due to Applied Load, $vu = V_u/(\phi b_u d)$	131.90 KPa	::e : : : : : : : : : : : : : : : : : :	and the second sec		
	Carried by Steel, vs = vu - vc Minimum Requirement, vs	0.00 KPa	d _v =			
	Minimum Requirement, v _s	345.00 KPa	Use : $v_s =$	345.00 KPa		
	Spiral Spacing $Sp = A_v f_v / v_s b_w$:	sp = 0.15 m.	Adopt $Sp = 0$.	09 m.		
	Finally adopt					
	20 mm. diam. spiral pitch		ション・シャン・オージー おい戸 二人 王			
	20 mm. diam. spiral pitch	@ 0.15 m. for the re	st of the pile lengt	<u>Þ</u>		
		200		12 2일, 글 방송 가격 5 고려 12 19 - 19 5년		
	1					
nage.						
	한 사실에 위해 가지 않는 것이 가지 않는다. 이 같은 것이 사실은 것은 것은 사실은 것은 것이다.					
	이 것같이 있는 것은 것을 것을 해야 하는 것이 있는 것을 가지 않는다. 같은 것 같은 것은 것을 것을 수 있는 것이 같이 있는다.					
	에게 가장 동네는 것 같은 것이다. 이가 있는 것 같은 것 같은					
			번 가장 가지 방법적으로 지난 것 것 같은 것 같은 것			
				a de l'Alexandre A fizikate dans a		
		和一次的时代,1000年前前 1000年前月前,1000年前前				
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	이 가 가 가지 않는 것은 것을 가지 않는다. 같은 것 같은 것이 가 가 있는 것을 가지 않는다.					
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Computer program for the Strength Design of Reinforced Concrete Sections

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General Information: _____

File Name	: C:\BANGLA\RUPSA	AMP1.COL
Project:	RUPSA BRIDGE PRO	JECT Code: ACI 318-89
Column:	MP-1 BORED PILE	Units: SI Metric
Engineer:	PCI-DHAKA	Date: 02/08/00 Time: 11:28:48
	للابود المعاول والمعاد الريائي فتعار	

Run Option	: Design	an the	Short (nonslender) column
Run Axis:	X-axis		Column Type: Structural

Material Properties:

fc	= 27.8 MPa	fy = 413.7 MPa
Éc	= 26656.8 MPa	Es = 199955 MPa
fc	= 23.63 MPa	erup = 0 mm/mm
eu	= 0.003 mm/mm	
Str	ess Profile: Block	Beta1 = 0.848404

Geometry:

Circular: Diameter = 2500 mm

Gross section area, $Ag = 4$.90874e+006 mm^2
Ix = 1.91748e+012 mm^4	
$ly = 1.91748e+012 \text{ mm}^4$	Yo ≃ 0 mm

Reinforcement:

Size	Diam	Area Size	Diam	Area	Size	Diam Ar	ea
10	11	100 15	16 20	0 20	20	300	
			30 70				Č.
36	36	1018 45	44 15	00 5	5 56	5 2500	Mag

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Confinement: Spiral; phi(c) = 0.75, phi(b) = 0.9, a = 0.85N-10 ties with N-25 bars, N-20 with larger bars. here internet and the

Layout: Circular Pattern: All Sides Equal [Cover to transverse reinforcement (ties)]

Total steel area, As = 50890 mm^2 at 1.04%

50N-36 Cover = 100 mm

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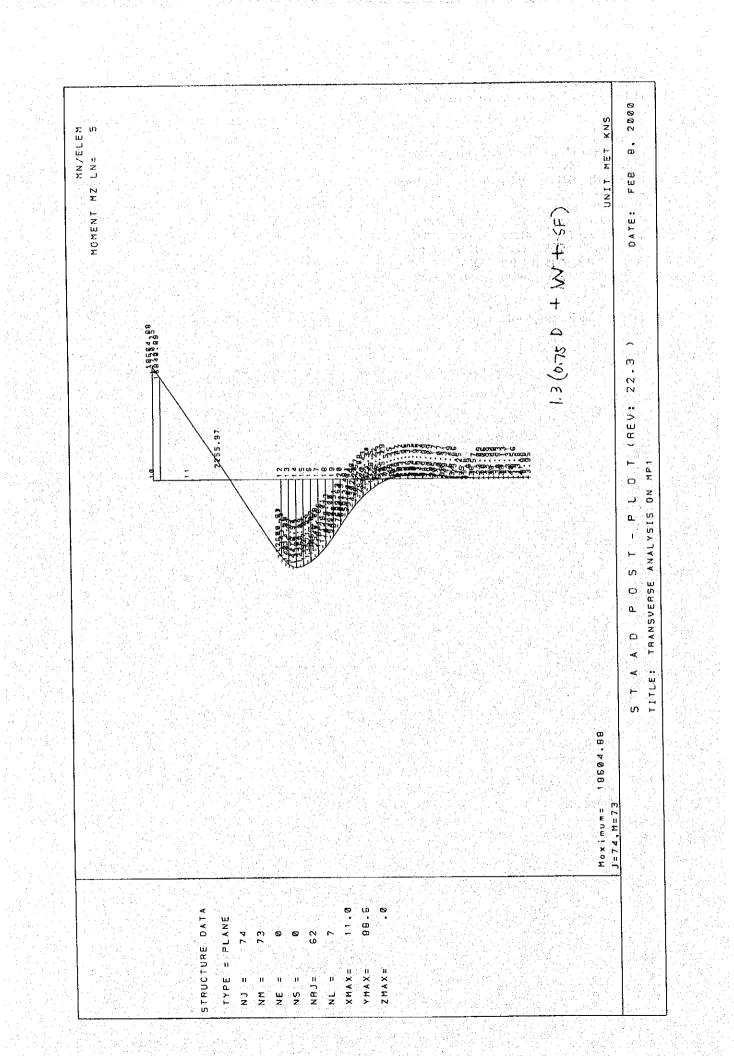
200

Applied LoadsComputed StrengthComputed/PMxPMxApplied(kN)(kN-m)(kN-m)Ray length

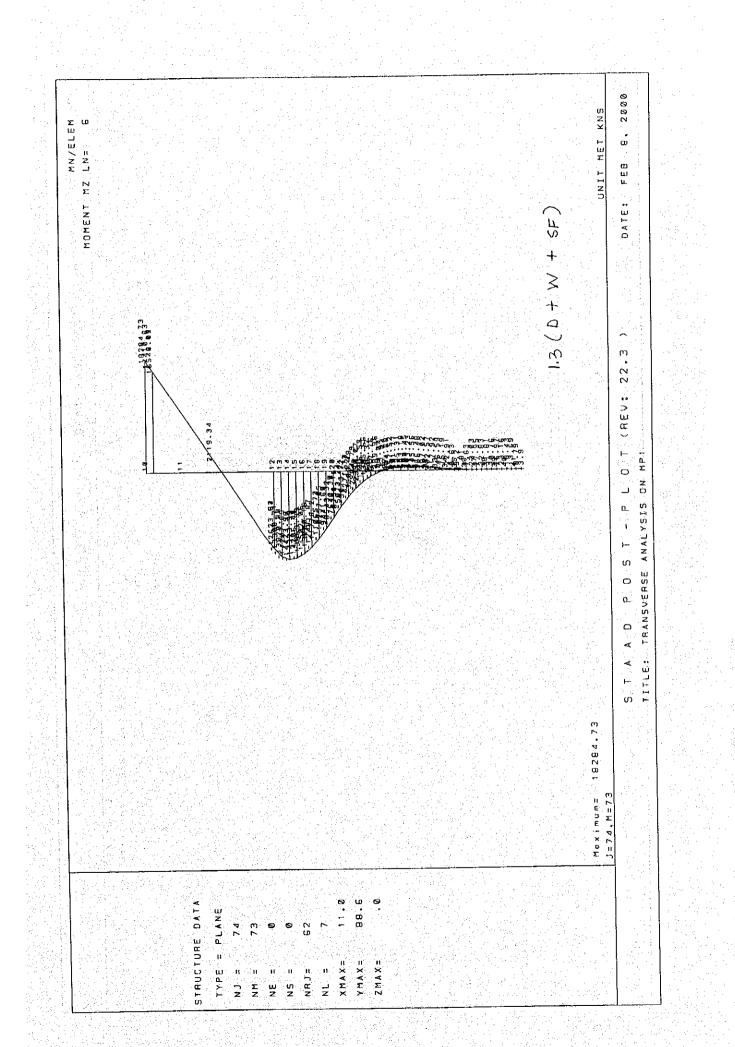
- 1	10	8424	22 19	9002 2	.256
2	1951	8274	5157	21959	2.653
3	5133	3909	41258	32050	8.097
4	10260	9195	34345	31858	3.400
5	12201	9345	41078	32062	3.391
6	9982	5072	56630	29293	5,694

Pt.

Program completed as requested!

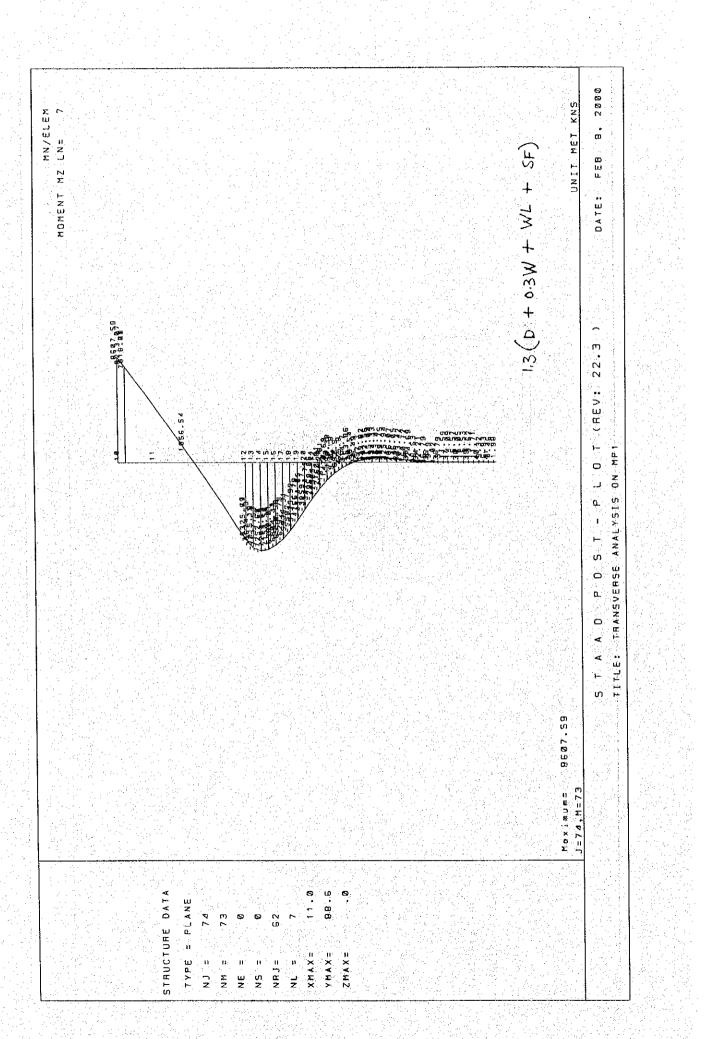


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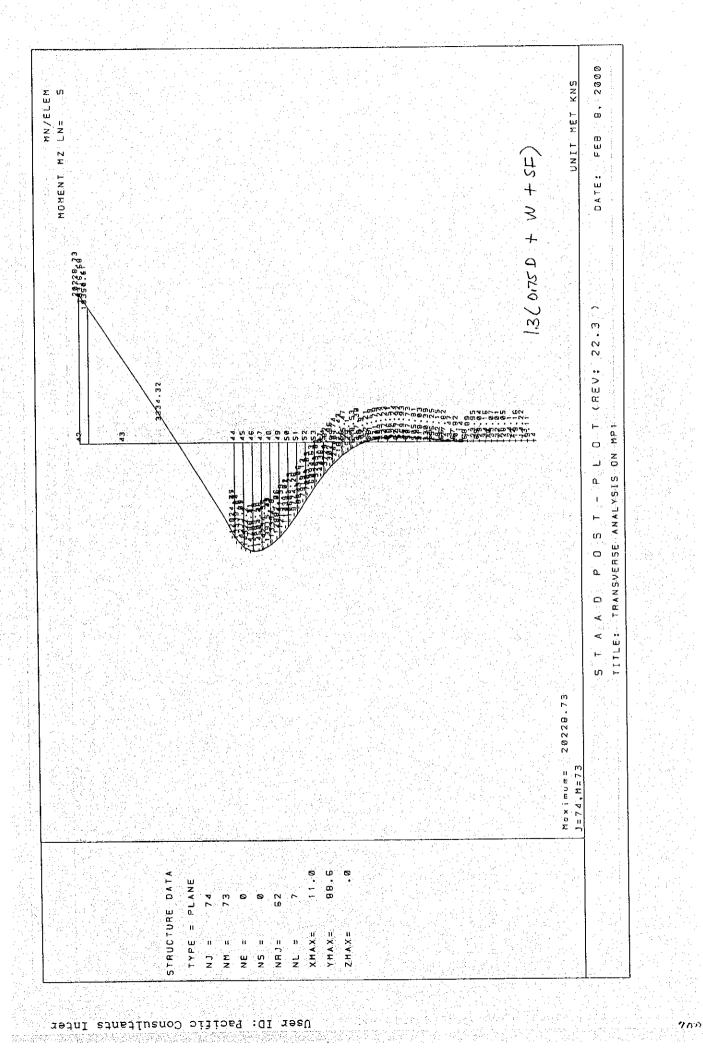


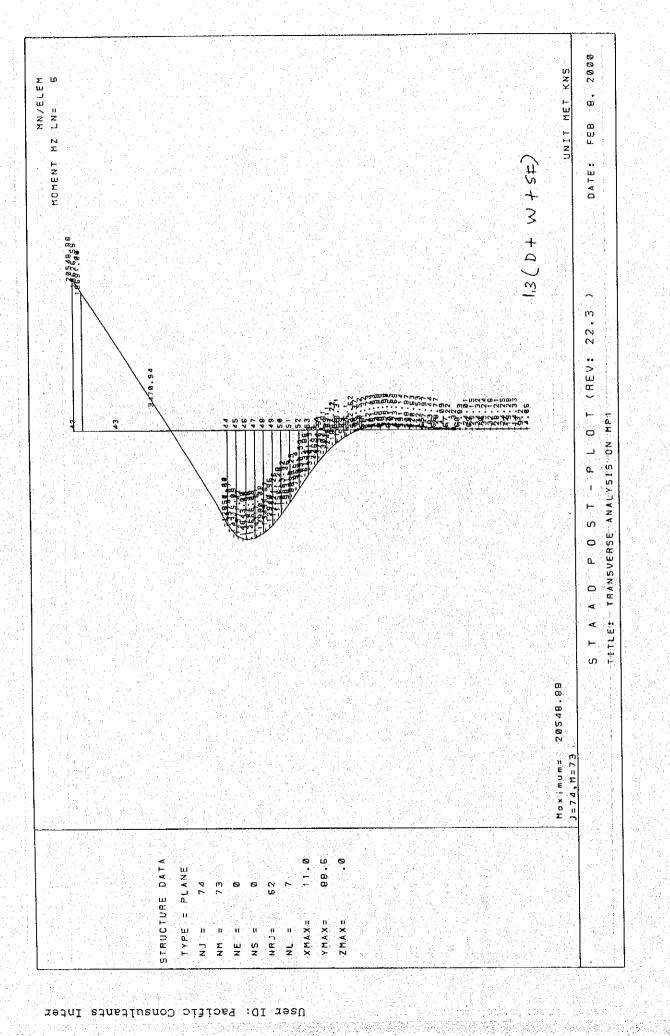
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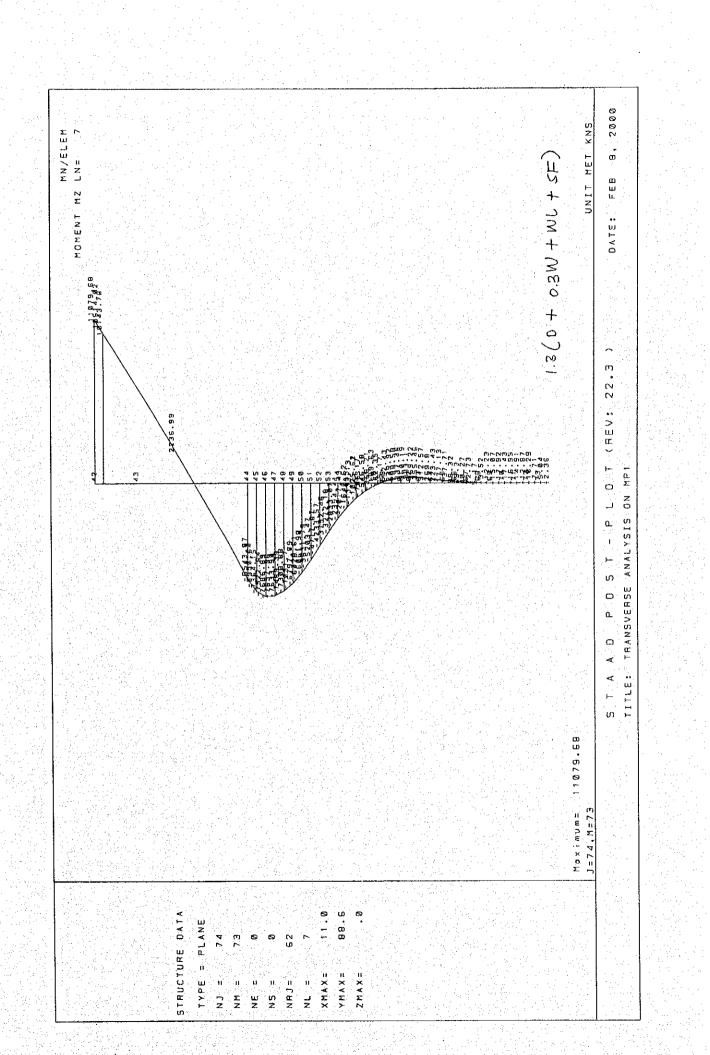
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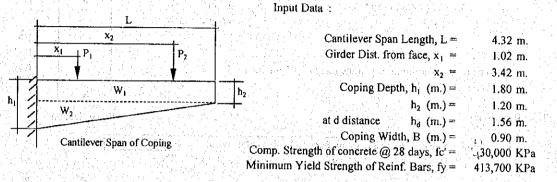
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THE STUDY ON THE CONSTRUCTION OF THE BRIDGE **OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Designed by ; Job No. Checked by Date: 2/9/00

1. Geometry and Material Property



2. Loads and Forces

Item	Dist. Fr. Column Face (x)	Dead Load			Live Load + Impact			Total Ultimate Load	
		Load	М	V	Load	М	v	1.3(DL +5/3 LL+I) M V	
W ₁	2.16	111.97	241.86	111.97	0.00	0.00	0.00	314.42 145.5	
W ₂].44	27.99	40.31	27.99	0.00	0.00	0.00	52.40 36.39	
P ₁	1.02	615.00	627.30	615.00	150.00	153.00	150.00	1146.99 1,124.50	
P ₂	3.42	615.00	2,103.30	615.00	150.00	513.00	150.00	3845.79 1,124.50	
<u> </u>	Summation		3,012.78	1,369.97		666.00	300.00	5,359.61 2,430.96	

 $Mu = \phi A_s f_v d(1 - 0.6 \rho f_v / f_c')$

 $Mu = \phi bd^2 f_v (1 - 0.6 \rho f_v / f_c')$

This is reduced to quadratic equation :

Bar Size, ϕ (mm) = 32.00

 $Mu = \phi bd^2 \omega f_c' (1-\omega)$

Conc. Cover, (m.) =

Rectangular Section with Tension Reinforcement only:

 $0.60 \omega^2 \cdot \omega + Mu/(\phi bd^2 f_c) = 0$ where $\rho = \omega f_c'/f_y$

0.05

0.07998

where $A_s = \rho b d$

let $\omega = \rho f_v / f_c^{-1}$

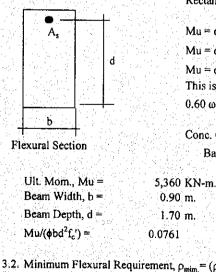
Bar Area=

804.25 mm.²

 $\rho_{\min} \sim 0.00215$

3. Flexural Reinforcement

3.1. Flexural Requirement



 $M_{cr} = f_r I/y_1$

weight conc

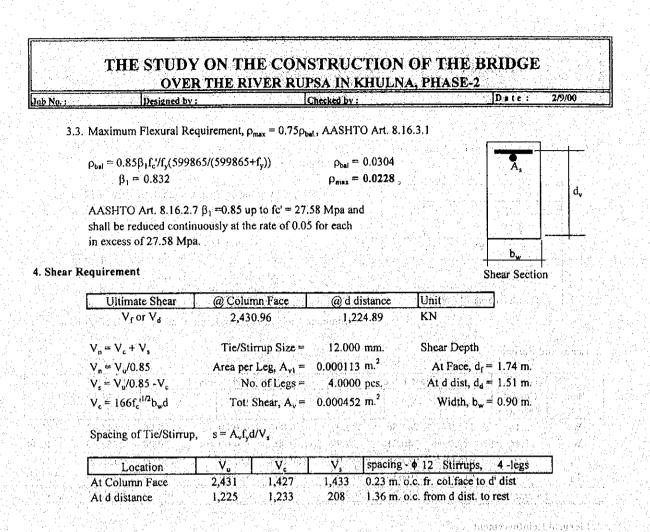
wiain, D =	0.90 m.	ĥ	o = 0.0058		
Depth, d =	1.70 m.	Α	s = 8,884	mm. ²	
bd²f _c ') ≈	0.0761	Nt	,= 12	bars of \$ -	32
ium Flexural Re	equirement, p _{mim.} =	(p based on 1.2	M _{er}) AASHTO	Art. 8.17.2	
$A_{\rm cr} = f_{\rm r} {\rm I/y}_{\rm I}$		f,= 3,4	10 KPa	1.2M _{cr}	= 1,988
$f_r = 622 f_c^{-1/2}$	for normal	I = 0.4	37 m.4	1.2M _{cr}	= < Mu

0.90 m.

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y, =

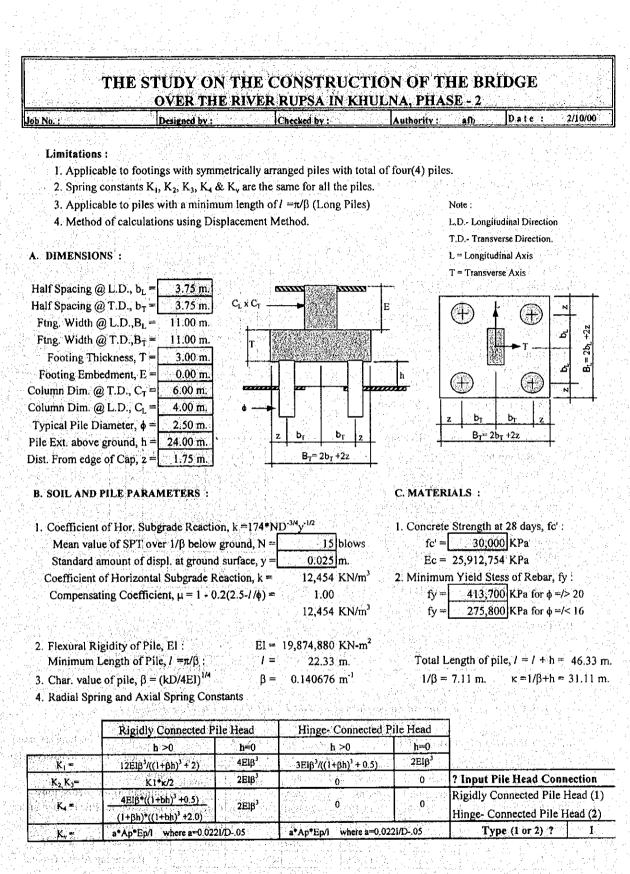


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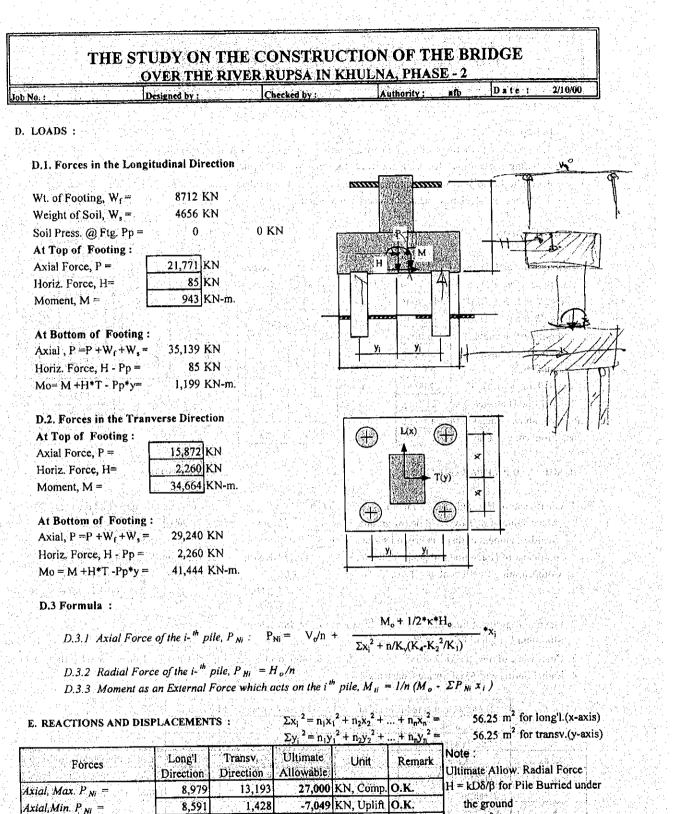




Adopt : $K_1 = 7,738$ $K_v = 982,084$ $K_2 K_3 = 120,352$ $K_4 = 49,690$

Note : All units of Spring Constants in KN/m.

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 $H = 4El\beta^3\delta/(1+\beta h)$ for Piles Protruding Above Ground

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1,264 KN

KN-m.

.....

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-428

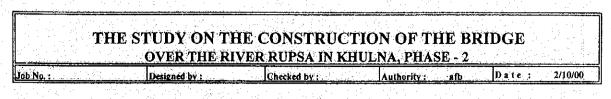
565

-11,698

Rad. Force , $P_{Hi} =$

Moment, $M_{ii} =$

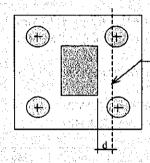
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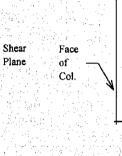


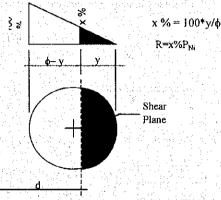
F. CHECK SECTIONAL ADEQUACY OF FOOTING :

E.I Check One-way or Beam Shear

AASHTO Art. 8.16.6.6(a); the section shall be checked at a distance "d" from the face of the concentrated load or reaction area as shown in the drawing

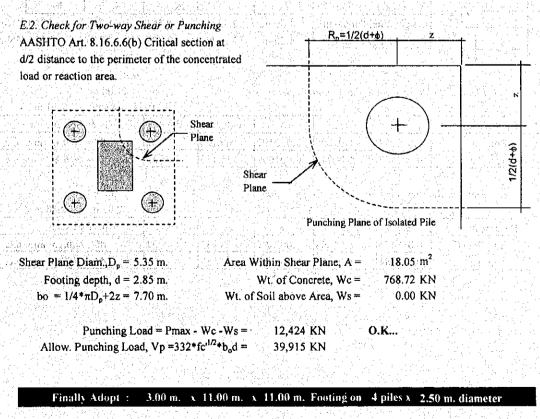




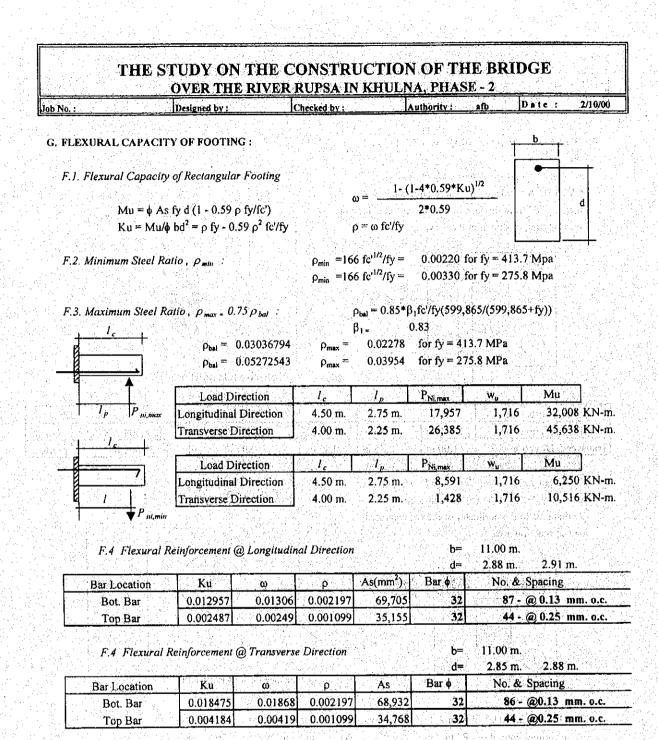


Effective Pile Reaction

Load Direction	b.	d	y	x %	Total Vu	$V_c = 166 f_c^{1/2} bd$	Remark
Longitudinal Direction	11.00 m.	2.85 m.	0.15 m.	6.00	1,077	28,504 KN	0.K
Transverse Direction	11.00 m.	2.85 m.	-0.85 m.	0.00	0	28,504 KN	0.K



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