

MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S.C	B E N D I N G					TOTAL LENGTH	MASS (kg)
								A	B	C	D	Er		
DECK BEAMS (1/4 OF)	15	101	Y16	2450	1515	D1	53	150	1070	175	1070	(150)	247.5	391
	15	101	Y16	2400	1515	D2	60	100	1200				242.4	383
	15	8	Y32	1200	120	D3	38	20	(12000)				96	606
	15	8	Y32	5450	120	D4	34	5200					42.8	270
	15	8	Y32	3400	120	D5	34	3200					26.8	103
	15	4	Y20	9150	60	D6	34	9000					38.6	90
	15	22	Y16	9000	330	D7	20	(9000)					198	313
	15	101	Y16	450	1515	D8	35	220					45	72
	15	4	Y20	2750	60	D9	53	250	1150	160	1150	(250)	11.6	29
	DOWELS FOR FOOTING													
ABUTMENT A	1	25	Y32	2100	25	X1	20	(2100)					52.5	322
PIER 1	1	21	Y32	2000	21	X2	20	(2000)					42	257
PIER 3	1	21	Y32	2000	21	X2	20	(2000)					42	257
ABUTMENT B	1	15	Y32	2000	15	X2	20	(2000)					30	184
SINGLE DECK SLAB														
3	174	Y16	5750	522	F1	35	5500						1009.2	1594
3	60	Y12	9300	180	F2	20	(9300)						558	496
3	384	Y12	1350	1092	F3	38	250	720	(350)	720	(200)		590.6	453
3	364	Y16	1050	1092	F4	38	200	720	(200)	720	(200)		400.4	632
3	64	Y32	4150	12	F5	35	250						179.2	131
3	4	Y32	4150	12	F6	35	3700						15	101
3	4	Y16	1600	12	F7	38	600	480	(600)				6.6	10
3	64	Y16	2150	160	F8	38	850	510	(850)				140.8	222
3	6	Y32	5950	18	F9	35	5500						34.8	220
3	58	Y16	1700	174	F10	38	1050	110	(600)				127.6	202
3	8	Y16	5750	24	F11	35	5500						46	73
3	12	Y12	2150	36	F12	38	800	620	(800)				26.4	23
3	32	Y16	1050	96	F13	38	300	510	(300)				25.6	40
PIER B&C														
1	52	Y25	2750	52	A1	35	2400	1400	(150)				143	551
1	24	Y20	2350	24	A2	38	900	900	(200)				56.4	139
1	136	Y16	2600	136	A3	38	1600	900	(200)				353.6	558
1	22	Y20	6900	22	A4	20	(6900)						145.2	358
1	34	Y12	6600	34	A5	20	(6600)						224.4	199
1	40	Y16	1450	40	A6	40	400	630	(400)	450			98	92
1	12	Y16	1500	12	A7	20	(1500)						18	18
1	52	Y16	2800	52	A8	38	1000	850	(1000)				145.6	230
1	14	Y16	2450	14	A9	33	300	860	300	(300)			34.3	54
1	124	Y25	2400	124	A10	34	2200						297.6	1447
1	124	Y25	4200	124	A11	20	(4200)						520.8	2007
1	118	Y16	1450	118	A12	38	500	800	(500)				171.1	270
R	8	10	12	16	20	25	32	40	TOT					
Y														
TOT														

MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S.C	B E N D I N G					TOTAL LENGTH	MASS (kg)	
								A	B	C	D	Er			
ABUTMENT A CONTIG.	1	9	R20	850	9	P39	34	700					7.6	18.7	
	1	22	Y20	3450	22	K14	35	3150						69.3	171.2
	1	2	Y16	3150	2	K15	35	2900						6.2	9.8
	1	2	Y16	4950	2	K16	35	4700						78.4	123.9
	1	2	Y16	6550	2	K17	48	2750	3500	(300)	250			6.8	10.7
	1	16	Y25	6050	16	K19	37	5100	(1000)					97	375.8
	1	16	Y16	5250	16	K20	34	5100	(1000)					84	132.7
	1	14	Y25	4950	14	K21	37	4000	(1000)					70	269.5
	1	14	Y16	4150	14	K22	34	4000	(1000)					58.1	91.8
	1	34	Y16	2250	34	K23	38	1000	310	(1000)				78.2	123.6
1	8	Y20	3050	8	K25	34	2900						24.8	61.3	
1	8	Y16	3050	8	K26	34	2900						24.4	36.6	
1	32	Y16	3650	32	K27	38	1700	310	(1700)				105.6	166.8	
1	16	Y16	1650	16	K28	34	1500						26.4	41.7	
1	10	Y20	3350	10	K29	34	3200						33.5	82.6	
1	12	Y16	2400	12	K30	37	250	(2200)					29.4	46.5	
1	12	Y16	2200	12	K31	37	250	(2000)					28.8	45.5	
1	24	Y16	1500	24	K32	37	250	(1300)					37.2	58.8	
1	76	Y16	2550	76	K33	34	2400						182.4	288.2	
1	72	Y12	1350	72	K34	37	250	(1100)					118.5	105.5	
1	6	Y12	1300	6	K35	35	1100						7.8	6.9	
1	24	R10	500	24	K36	35	310						12	7.4	
1	56	Y16	2200	56	K41	60	320	710					123.2	194.5	
1	20	Y16	6550	20	K42	35	5400						113	178.4	
1	16	Y25	2350	16	K43	49	500	500	(1350)	355	355		37.6	144.8	
1	2	Y16	1950	2	K44	34	1600						3.9	6.2	
1	10	Y20	3550	10	K45	38	500	2650	(500)				35.5	87.5	
1	2	Y12	1250	2	K46	38	300	700	(300)				2.6	2.3	
1	4	R25	1500	4	K47	20	(1500)						6	15.4	
ABUTMENT D	1	33	Y20	5400	33	K1	38	800	3900	(800)			178.2	440.2	
	1	33	Y20	5200	33	K2	38	700	3900	(700)			174.9	432	
	1	77	Y16	6300	77	K3	30	(6300)					48.1	76.5	
	1	38	Y16	1400	38	K4	38	300	850	(300)			53.2	84.1	
	1	8	Y16	4350	8	K5	38	300	3800	(300)			35.2	21.7	
	1	58	Y25	2200	58	K6	34	2000					124.7	480.1	
	1	10	Y20	2150	10	K7	34	2000					21.5	53.1	
	1	60	Y16	1250	60	K8	37	600	(700)				78	123.2	
	1	40	Y16	1700	40	K9	37	1040	(700)				70	110.6	
	1	58	Y25	4100	58	K10	20	(4100)					227.8	915.5	
1	29	Y20	2400	29	K11	38	600	1300	(600)			15.2	178.1		
1	50	Y16	1900	50	K12	20	(1900)					95.0	150.1		
1	10	Y12	1500	10	K13	35	1275					15	13.3		
1	22	Y20	3450	22	K14	35	3150						75.9	187.5	
1	2	Y16	3150	2	K15	35	2900						6.2	9.8	
1	16	Y16	4950	16	K16	35	4700						78.4	123.9	
R	8	10	12	16	20	25	32	40	TOT						
Y															
TOT															

MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S.C	B E N D I N G					TOTAL LENGTH	MASS (kg)
								A	B	C	D	Er		
PIER B&C CONTIG.	1	84	Y16	6000	188	A13	20	(6000)					554	891
	1	78	Y20	4400	156	A14	20	(4400)					343.2	878
	1	78	Y20	3050	156	A15	20	(3050)					237.9	588
	1	55	R10	950	110	A16	35	750					52.3	33
	2	62	Y20	4000	124	A20	60	1120	820	(900)				36.6
1	24	Y16	7800	48	A21	38	900	6900	(1500)				187.2	296
2	20	Y16	1750	40	A22	38	500	820	(500)				36	57
2	32	Y20	2100	64	A23	38	1000	170	(1000)					