

SLOPE = 6 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 60 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	0.70	0.20	0.20	0.81	5.43	12 F 101 THRU 12 F	103	12 G 101 THRU 12 G	103	1.50	4.74	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106
1.50	0.70	0.22	0.20	1.12	5.25	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.10	4.27	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109
2.00	0.70	0.24	0.20	1.43	5.08	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.70	3.81	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
2.50	0.70	0.28	0.20	1.77	5.02	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.33	3.46	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
3.00	0.70	0.32	0.20	2.10	4.97	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.95	3.12	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
3.50	0.70	0.36	0.20	2.44	4.90	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.57	2.77	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	0.70	0.20	0.20	2.19	4.05	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	2.89	3.35	12 F 101 THRU 12 F	113	12 G 101 THRU 12 G	113
1.50	0.70	0.22	0.20	3.08	3.29	12 F 101 THRU 12 F	114	12 G 101 THRU 12 G	114	4.06	2.31	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
2.00	0.70	0.24	0.20	3.97	2.54	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	5.24	1.27	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
2.50	0.70	0.28	0.20	4.88	1.91	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.44	0.35	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
3.00	0.70	0.32	0.20	5.80	1.27	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.07	0.57	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134
3.50	0.70	0.36	0.20	6.71	0.63	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	7.34	1.50	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135

STANDARD RCBC INLET & OUTLET

SLOPE = 2 : 1 SKEW = 45 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET

ROW OF GRATE PIPES

R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL									
1.00	1.00	0.20	0.20	0.24	3.39	2.40	1.20	3.60			1.40	2.60	3.80	5.00	0.20								
1.50	1.00	0.22	0.20	0.26	3.45	2.44	1.22	3.66			1.94	3.64	5.34	7.04	0.20								
	1.50	0.22	0.22	0.26	4.86	3.44	1.72	5.16			1.94	3.66	5.38	7.10	0.22								
2.00	1.00	0.24	0.20	0.28	3.51	2.48	1.24	3.72			2.48	4.68	6.88	9.08	0.20								
	1.50	0.24	0.22	0.28	4.92	3.48	1.74	5.22			2.48	4.70	6.92	9.14	0.22								
	2.00	0.24	0.24	0.28	6.34	4.48	2.24	6.72			2.48	4.72	6.96	9.20	0.24								
2.50	1.00	0.28	0.20	0.32	3.62	2.56	1.28	3.84			3.06	5.76	8.46	11.16	0.24	NOTE: INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.							
	1.50	0.28	0.22	0.32	5.03	3.56	1.78	5.34			3.06	5.78	8.50	11.22	0.26								
	2.00	0.28	0.24	0.32	6.45	4.56	2.28	6.84			3.06	5.80	8.54	11.28	0.27								
	2.50	0.28	0.26	0.32	7.86	5.56	2.78	8.34			3.06	5.82	8.58	11.34	0.28								
3.00	1.00	0.32	0.20	0.36	3.73	2.64	1.32	3.96			3.64	6.84	10.04	13.24	0.24								
	1.50	0.32	0.22	0.36	5.15	3.64	1.82	5.46			3.64	6.86	10.08	13.30	0.26								
	2.00	0.32	0.24	0.36	6.56	4.64	2.32	6.96			3.64	6.88	10.12	13.36	0.28								
	2.50	0.32	0.26	0.36	7.98	5.64	2.82	8.46			3.64	6.90	10.16	13.42	0.29								
	3.00	0.32	0.28	0.36	9.39	6.64	3.32	9.96			3.64	6.92	10.20	13.48	0.30								
3.50	1.00	0.36	0.20	0.40	3.85	2.72	1.36	4.08			4.22	7.92	11.62	15.32	0.24								
	1.50	0.36	0.22	0.40	5.26	3.72	1.86	5.58			4.22	7.94	11.66	15.38	0.26								
	2.00	0.36	0.24	0.40	6.68	4.72	2.36	7.08			4.22	7.96	11.70	15.44	0.28								
	2.50	0.36	0.26	0.40	8.09	5.72	2.86	8.58			4.22	7.98	11.74	15.50	0.29								
	3.00	0.36	0.28	0.40	9.50	6.72	3.36	10.08			4.22	8.00	11.78	15.56	0.31								

NOTE:
INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL

INNER WALL

VERTICAL BARS			HORIZONTAL BARS		VERTICAL BARS		HORIZONTAL BARS	
S	NEAR FACE (N.F.)	FAR FACE (F.F.)	NEAR F. AND FAR F.		BOTH SIDES		BOTH SIDES	
1.00	14 B 101 THRU 14 B 123	12 C 101 THRU 12C 123	12 A 101 THRU 12A 107		14 D 101 THRU 14 D 123		12 E 101 THRU 12 E 107	
1.50	14 B 101 THRU 14 B 123	12 C 101 THRU 12C 123	12 A 101 THRU 12A 107		14 D 101 THRU 14 D 123		12 E 101 THRU 12 E 107	
	14 B 101 THRU 14 B 132	12 C 101 THRU 12C 132	12 A 101 THRU 12A 110		14 D 101 THRU 14 D 132		12 E 101 THRU 12 E 110	
2.00	14 B 101 THRU 14 B 123	12 C 101 THRU 12C 123	12 A 101 THRU 12A 107		14 D 101 THRU 14 D 123		12 E 101 THRU 12 E 107	
	14 B 101 THRU 14 B 133	12 C 101 THRU 12C 133	12 A 101 THRU 12A 110		14 D 101 THRU 14 D 133		12 E 101 THRU 12 E 110	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B105	12 C 101 THRU 12C 142	12 A 101 THRU 12A 114		14 D101 THRU 14 D137, 16 D101 THRU 16 D105		12 E 101 THRU 12 E 114	
2.50	14 B 101 THRU 14 B 124	12 C 101 THRU 12C 124	12 A 101 THRU 12A 107		14 D 101 THRU 14 D 124		12 E 101 THRU 12 E 107	
	14 B 101 THRU 14 B 134	12 C 101 THRU 12C 134	12 A 101 THRU 12A 111		14 D 101 THRU 14 D 134		12 E 101 THRU 12 E 111	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B106	12 C 101 THRU 12C 143	12 A 101 THRU 12A 114		14 D101 THRU 14 D137, 16 D101 THRU 16 D106		12 E 101 THRU 12 E 114	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B115	12 C 101 THRU 12C 152	12 A 101 THRU 12A 117		14 D101 THRU 14 D137, 16 D101 THRU 16 D115		12 E 101 THRU 12 E 117	
3.00	14 B 101 THRU 14 B 125	12 C 101 THRU 12C 125	12 A 101 THRU 12A 107		14 D 101 THRU 14 D 125		12 E 101 THRU 12 E 107	
	14 B 101 THRU 14 B 134	12 C 101 THRU 12C 134	12 A 101 THRU 12A 111		14 D 101 THRU 14 D 134		12 E 101 THRU 12 E 111	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B107	12 C 101 THRU 12C 144	12 A 101 THRU 12A 114		14 D101 THRU 14 D137, 16 D101 THRU 16 D107		12 E 101 THRU 12 E 114	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B116	12 C 101 THRU 12C 153	12 A 101 THRU 12A 117		14 D101 THRU 14 D137, 16 D101 THRU 16 D116		12 E 101 THRU 12 E 117	
	14B101 THRU 14B137, 18B101 THRU 18 B120, 20B101 THRU 20 B106	12 C 101 THRU 12C 163	12 A 101 THRU 12A 121		14 D101 THRU 14 D137, 16 D101 THRU 16 D126		12 E 101 THRU 12 E 121	
3.50	14 B 101 THRU 14 B 126	12 C 101 THRU 12C 126	12 A 101 THRU 12A 108		14 D 101 THRU 14 D 126		12 E 101 THRU 12 E 108	
	14 B 101 THRU 14 B 135	12 C 101 THRU 12C 135	12 A 101 THRU 12A 111		14 D 101 THRU 14 D 135		12 E 101 THRU 12 E 111	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B108	12 C 101 THRU 12C 145	12 A 101 THRU 12A 114		14 D101 THRU 14 D137, 16 D101 THRU 16 D108		12 E 101 THRU 12 E 114	
	14 B101 THRU 14 B137, 18 B101 THRU 18 B117	12 C 101 THRU 12C 154	12 A 101 THRU 12A 118		14 D101 THRU 14 D137, 16 D101 THRU 16 D117		12 E 101 THRU 12 E 118	
	14B101 THRU 14B137, 18B101 THRU 18 B120, 20B101 THRU 20 B106	12 C 101 THRU 12C 163	12 A 101 THRU 12A 121		14 D101 THRU 14 D137, 16 D101 THRU 16 D126		12 E 101 THRU 12 E 121	

STANDARD RCBC INLET & OUTLET

SLOPE = 2 : 1 SKEW = 60 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES									
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL		
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.		NO.		NO.		NO.		
S	H	W1	W2		T1	L1	L2	h1	C	-	-	CELL	CELL	CELL		CELL	NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
1.00	1.00	0.20	0.20	0.24	2.77	2.40	1.20	3.02			1.40	2.60	3.80	5.00	0.20									
1.50	1.00	0.22	0.20	0.26	2.82	2.44	1.22	3.07			1.94	3.64	5.34	7.04	0.20									
	1.50	0.22	0.22	0.26	3.97	3.44	1.72	4.33			1.94	3.66	5.38	7.10	0.22									
2.00	1.00	0.24	0.20	0.28	2.86	2.48	1.24	3.12			2.48	4.68	6.88	9.08	0.20									
	1.50	0.24	0.22	0.28	4.02	3.48	1.74	4.38			2.48	4.70	6.92	9.14	0.22									
	2.00	0.24	0.24	0.28	5.17	4.48	2.24	5.63			2.48	4.72	6.96	9.20	0.24									
2.50	1.00	0.28	0.20	0.32	2.96	2.56	1.28	3.22			3.06	5.76	8.46	11.16	0.24		NOTE: INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.							
	1.50	0.28	0.22	0.32	4.11	3.56	1.78	4.48			3.06	5.78	8.50	11.22	0.26									
	2.00	0.28	0.24	0.32	5.27	4.56	2.28	5.74			3.06	5.80	8.54	11.28	0.27									
	2.50	0.28	0.26	0.32	6.42	5.56	2.78	7.00			3.06	5.82	8.58	11.34	0.28									
3.00	1.00	0.32	0.20	0.36	3.05	2.64	1.32	3.32			3.64	6.84	10.04	13.24	0.24									
	1.50	0.32	0.22	0.36	4.20	3.64	1.82	4.58			3.64	6.86	10.08	13.30	0.26									
	2.00	0.32	0.24	0.36	5.36	4.64	2.32	5.84			3.64	6.88	10.12	13.36	0.28									
	2.50	0.32	0.26	0.36	6.51	5.64	2.82	7.09			3.64	6.90	10.16	13.42	0.29									
	3.00	0.32	0.28	0.36	7.67	6.64	3.32	8.36			3.64	6.92	10.20	13.48	0.30									
3.50	1.00	0.36	0.20	0.40	3.14	2.72	1.36	3.42			4.22	7.92	11.62	15.32	0.24									
	1.50	0.36	0.22	0.40	4.30	3.72	1.86	4.69			4.22	7.94	11.66	15.38	0.26									
	2.00	0.36	0.24	0.40	5.45	4.72	2.36	5.94			4.22	7.96	11.70	15.44	0.28									
	2.50	0.36	0.26	0.40	6.60	5.72	2.86	7.19			4.22	7.98	11.74	15.50	0.29									
	3.00	0.36	0.28	0.40	7.76	6.72	3.36	8.46			4.22	8.00	11.78	15.56	0.31									

NOTE:
INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL					INNER WALL				
VERTICAL BARS				HORIZONTAL BARS	VERTICAL BARS		HORIZONTAL BARS		
S	NEAR FACE (N.F.)		FAR FACE (F.F.)	NEAR F. AND FAR F.	BOTH SIDES		BOTH SIDES		
1.00	14 B 101 THRU 14 B 118		12 C 101 THRU 12C 118	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 118		12 E 101 THRU 12 E 107		
1.50	14 B 101 THRU 14 B 119		12 C 101 THRU 12C 119	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 119		12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 126		12 C 101 THRU 12C 126	12 A 101 THRU 12A 110	14 D 101 THRU 14 D 126		12 E 101 THRU 12 E 110		
2.00	14 B 101 THRU 14 B 119		12 C 101 THRU 12C 119	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 119		12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 127		12 C 101 THRU 12C 127	12 A 101 THRU 12A 110	14 D 101 THRU 14 D 127		12 E 101 THRU 12 E 110		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B103		12 C 101 THRU 12C 134	12 A 101 THRU 12A 114	14 D101 THRU 14 D131, 16 D101 THRU 16 D103		12 E 101 THRU 12 E 114		
2.50	14 B 101 THRU 14 B 120		12 C 101 THRU 12C 120	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 120		12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 127		12 C 101 THRU 12C 127	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 127		12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B104		12 C 101 THRU 12C 135	12 A 101 THRU 12A 114	14 D101 THRU 14 D131, 16 D101 THRU 16 D104		12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B112		12 C 101 THRU 12C 143	12 A 101 THRU 12A 117	14 D101 THRU 14 D131, 16 D101 THRU 16 D112		12 E 101 THRU 12 E 117		
3.00	14 B 101 THRU 14 B 120		12 C 101 THRU 12C 120	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 120		12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 128		12 C 101 THRU 12C 128	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 128		12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B105		12 C 101 THRU 12C 136	12 A 101 THRU 12A 114	14 D101 THRU 14 D131, 16 D101 THRU 16 D105		12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B112		12 C 101 THRU 12C 143	12 A 101 THRU 12A 117	14 D101 THRU 14 D131, 16 D101 THRU 16 D112		12 E 101 THRU 12 E 117		
	14B101 THRU 14B131, 18B101 THRU 18 B114, 20B101 THRU 20 B106		12 C 101 THRU 12C 151	12 A 101 THRU 12A 121	14 D101 THRU 14 D131, 16 D101 THRU 16 D120		12 E 101 THRU 12 E 121		
3.50	14 B 101 THRU 14 B 121		12 C 101 THRU 12C 121	12 A 101 THRU 12A 108	14 D 101 THRU 14 D 121		12 E 101 THRU 12 E 108		
	14 B 101 THRU 14 B 129		12 C 101 THRU 12C 129	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 129		12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B108		12 C 101 THRU 12C 136	12 A 101 THRU 12A 114	14 D101 THRU 14 D131, 16 D101 THRU 16 D108		12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B131, 18 B101 THRU 18 B113		12 C 101 THRU 12C 144	12 A 101 THRU 12A 118	14 D101 THRU 14 D131, 16 D101 THRU 16 D113		12 E 101 THRU 12 E 118		
	14B101 THRU 14B131, 18B101 THRU 18 B114, 20B101 THRU 20 B107		12 C 101 THRU 12C 152	12 A 101 THRU 12A 121	14 D101 THRU 14 D131, 16 D101 THRU 16 D121		12 E 101 THRU 12 E 121		

STANDARD RCBC INLET & OUTLET

SLOPE = 2 : 1 SKEW = 90 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET

ROW OF GRATE PIPES

R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL									
1.00	1.00	0.20	0.20	0.24	2.40	2.40	1.20	2.68			1.40	2.60	3.80	5.00	0.20								
1.50	1.00	0.22	0.20	0.26	2.44	2.44	1.22	2.73			1.94	3.64	5.34	7.04	0.20								
	1.50	0.22	0.22	0.26	3.44	3.44	1.72	3.85			1.94	3.66	5.38	7.10	0.22								
2.00	1.00	0.24	0.20	0.28	2.48	2.48	1.24	2.77			2.48	4.68	6.88	9.08	0.20								
	1.50	0.24	0.22	0.28	3.48	3.48	1.74	3.89			2.48	4.70	6.92	9.14	0.22								
	2.00	0.24	0.24	0.28	4.48	4.48	2.24	5.01			2.48	4.72	6.96	9.20	0.24								
2.50	1.00	0.28	0.20	0.32	2.56	2.56	1.28	2.86			3.06	5.76	8.46	11.16	0.24	NOTE: INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.							
	1.50	0.28	0.22	0.32	3.56	3.56	1.78	3.98			3.06	5.78	8.50	11.22	0.26								
	2.00	0.28	0.24	0.32	4.56	4.56	2.28	5.10			3.06	5.80	8.54	11.28	0.27								
	2.50	0.28	0.26	0.32	5.56	5.56	2.78	6.22			3.06	5.82	8.58	11.34	0.28								
3.00	1.00	0.32	0.20	0.36	2.64	2.64	1.32	2.95			3.64	6.84	10.04	13.24	0.24								
	1.50	0.32	0.22	0.36	3.64	3.64	1.82	4.07			3.64	6.86	10.08	13.30	0.26								
	2.00	0.32	0.24	0.36	4.64	4.64	2.32	5.19			3.64	6.88	10.12	13.36	0.28								
	2.50	0.32	0.26	0.36	5.64	5.64	2.82	6.31			3.64	6.90	10.16	13.42	0.29								
	3.00	0.32	0.28	0.36	6.64	6.64	3.32	7.42			3.64	6.92	10.20	13.48	0.30								
3.50	1.00	0.36	0.20	0.40	2.72	2.72	1.36	3.04			4.22	7.92	11.62	15.32	0.24								
	1.50	0.36	0.22	0.40	3.72	3.72	1.86	4.16			4.22	7.94	11.66	15.38	0.26								
	2.00	0.36	0.24	0.40	4.72	4.72	2.36	5.28			4.22	7.96	11.70	15.44	0.28								
	2.50	0.36	0.26	0.40	5.72	5.72	2.86	6.40			4.22	7.98	11.74	15.50	0.29								
	3.00	0.36	0.28	0.40	6.72	6.72	3.36	7.51			4.22	8.00	11.78	15.56	0.31								

NOTE:
INSTALLATION OF PIPE RUNNERS ON CULVERT ENDS ON A 2:1 SLOPE ARE NOT REQUIRED. HOWEVER, IT IS TO BE SHIELDED WITH BARRIER IF WITHIN THE CLEAR ZONE AND ALSO IF IT IS OVER 2.00 METERS IN HEIGHT.

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL				INNER WALL			
VERTICAL BARS			HORIZONTAL BARS	VERTICAL BARS		HORIZONTAL BARS	
S	NEAR FACE (N.F.)	FAR FACE (F.F.)	NEAR F. AND FAR F.	BOTH SIDES		BOTH SIDES	
1.00	14 B 101 THRU 14 B 116	12 C 101 THRU 12C 116	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 116	12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 116	12 C 101 THRU 12C 116	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 116	12 E 101 THRU 12 E 107		
1.50	14 B 101 THRU 14 B 123	12 C 101 THRU 12C 123	12 A 101 THRU 12A 110	14 D 101 THRU 14 D 123	12 E 101 THRU 12 E 110		
	14 B 101 THRU 14 B 117	12 C 101 THRU 12C 117	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 117	12 E 101 THRU 12 E 107		
2.00	14 B 101 THRU 14 B 123	12 C 101 THRU 12C 123	12 A 101 THRU 12A 110	14 D 101 THRU 14 D 123	12 E 101 THRU 12 E 110		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B103	12 C 101 THRU 12C 130	12 A 101 THRU 12A 114	14 D 101 THRU 14 D 130	12 E 101 THRU 12 E 114		
2.50	14 B 101 THRU 14 B 117	12 C 101 THRU 12C 117	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 117	12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 124	12 C 101 THRU 12C 124	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 124	12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B103	12 C 101 THRU 12C 130	12 A 101 THRU 12A 114	14 D101 THRU 14 D126, 16 D101 THRU 16 D103	12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B111	12 C 101 THRU 12C 137	12 A 101 THRU 12A 117	14 D101 THRU 14 D126, 16 D101 THRU 16 D111	12 E 101 THRU 12 E 117		
3.00	14 B 101 THRU 14 B 118	12 C 101 THRU 12C 118	12 A 101 THRU 12A 107	14 D 101 THRU 14 D 118	12 E 101 THRU 12 E 107		
	14 B 101 THRU 14 B 124	12 C 101 THRU 12C 124	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 124	12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B106	12 C 101 THRU 12C 131	12 A 101 THRU 12A 114	14 D101 THRU 14 D126, 16 D101 THRU 16 D106	12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B112	12 C 101 THRU 12C 138	12 A 101 THRU 12A 117	14 D101 THRU 14 D126, 16 D101 THRU 16 D112	12 E 101 THRU 12 E 117		
	14B101 THRU 14B126, 18B101 THRU 18 B112, 20B101 THRU 20 B106	12 C 101 THRU 12C 144	12 A 101 THRU 12A 121	14 D101 THRU 14 D126, 16 D101 THRU 16 D118	12 E 101 THRU 12 E 121		
3.50	14 B 101 THRU 14 B 118	12 C 101 THRU 12C 118	12 A 101 THRU 12A 108	14 D 101 THRU 14 D 118	12 E 101 THRU 12 E 108		
	14 B 101 THRU 14 B 125	12 C 101 THRU 12C 125	12 A 101 THRU 12A 111	14 D 101 THRU 14 D 125	12 E 101 THRU 12 E 111		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B106	12 C 101 THRU 12C 131	12 A 101 THRU 12A 114	14 D101 THRU 14 D126, 16 D101 THRU 16 D106	12 E 101 THRU 12 E 114		
	14 B101 THRU 14 B126, 18 B101 THRU 18 B112	12 C 101 THRU 12C 138	12 A 101 THRU 12A 118	14 D101 THRU 14 D126, 16 D101 THRU 16 D112	12 E 101 THRU 12 E 118		
	14B101 THRU 14B126, 18B101 THRU 18 B112, 20B101 THRU 20 B107	12 C 101 THRU 12C 145	12 A 101 THRU 12A 121	14 D101 THRU 14 D126, 16 D101 THRU 16 D119	12 E 101 THRU 12 E 121		

SLOPE = 2 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 45 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT				DIMENSION		REINFORCEMENT			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	1.40	1.99	12 F 101 THRU 12 F	105	12 G 101 THRU 12 G	105	2.60	0.79	12 F 101 THRU 12 F	113	12 G 101 THRU 12 G	113
1.50	1.00	0.22	0.20	1.94	1.51	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.45	0.19	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.22	0.22	1.94	2.92	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.66	1.20	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
2.00	1.00	0.24	0.20	2.48	1.03	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	3.51	1.17	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.24	0.22	2.48	2.44	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	4.70	0.22	12 F 101 THRU 12 F	127	12 G 101 THRU 12 G	127
	2.00	0.24	0.24	2.48	3.86	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	4.72	1.62	12 F 101 THRU 12 F	127	12 G 101 THRU 12 G	127
2.50	1.00	0.28	0.20	3.06	0.56	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	3.62	2.14	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	1.50	0.28	0.22	3.06	1.97	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	5.03	0.75	12 F 101 THRU 12 F	129	12 G 101 THRU 12 G	129
	2.00	0.28	0.24	3.06	3.39	14 F 101 THRU 14 F	116	12 G 101 THRU 12 G	116	5.80	0.65	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134
	2.50	0.28	0.26	3.06	4.80	14 F 101 THRU 14 F	116	12 G 101 THRU 12 G	116	5.82	2.04	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134
3.00	1.00	0.32	0.20	3.64	0.09	14 F 101 THRU 14 F	120	12 G 101 THRU 12 G	120	3.73	3.11	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.32	0.22	3.64	1.51	14 F 101 THRU 14 F	120	12 G 101 THRU 12 G	120	5.15	1.71	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130
	2.00	0.32	0.24	3.64	2.92	14 F 101 THRU 14 F	120	12 G 101 THRU 12 G	120	6.56	0.32	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139
	2.50	0.32	0.26	3.64	4.34	14 F 101 THRU 14 F	120	12 G 101 THRU 12 G	120	6.90	1.08	14 F 101 THRU 14 F	142	12 G 101 THRU 12 G	142
	3.00	0.32	0.28	3.64	5.75	16 F 101 THRU 16 F	120	12 G 101 THRU 12 G	120	6.92	2.47	14 F 101 THRU 14 F	142	12 G 101 THRU 12 G	142
3.50	1.00	0.36	0.20	3.85	0.37	16 F 101 THRU 16 F	121	12 G 101 THRU 12 G	121	3.85	4.07	14 F 101 THRU 14 F	121	12 G 101 THRU 12 G	121
	1.50	0.36	0.22	4.22	1.04	16 F 101 THRU 16 F	124	12 G 101 THRU 12 G	124	5.26	2.68	14 F 101 THRU 14 F	131	12 G 101 THRU 12 G	131
	2.00	0.36	0.24	4.22	2.46	16 F 101 THRU 16 F	124	12 G 101 THRU 12 G	124	6.68	1.28	14 F 101 THRU 14 F	140	12 G 101 THRU 12 G	140
	2.50	0.36	0.26	4.22	3.87	16 F 101 THRU 16 F	124	12 G 101 THRU 12 G	124	7.98	0.11	14 F 101 THRU 14 F	149	12 G 101 THRU 12 G	149
	3.00	0.36	0.28	4.22	5.28	16 F 101 THRU 16 F	124	12 G 101 THRU 12 G	124	8.00	1.50	14 F 101 THRU 14 F	149	12 G 101 THRU 12 G	149
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT				DIMENSION		REINFORCEMENT			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	3.39	0.41	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	3.39	1.61	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
1.50	1.00	0.22	0.20	3.45	1.89	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	3.45	3.59	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.22	0.22	4.86	0.52	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	4.86	2.24	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128
2.00	1.00	0.24	0.20	3.51	3.37	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	3.51	5.57	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.24	0.22	4.92	2.00	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	4.92	4.22	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128
	2.00	0.24	0.24	6.34	0.62	12 F 101 THRU 12 F	138	12 G 101 THRU 12 G	138	6.34	2.86	12 F 101 THRU 12 F	138	12 G 101 THRU 12 G	138
2.50	1.00	0.28	0.20	3.62	4.84	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120	3.62	7.54	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	1.50	0.28	0.22	5.03	3.47	12 F 101 THRU 12 F	129	12 G 101 THRU 12 G	129	5.03	6.19	12 F 101 THRU 12 F	129	12 G 101 THRU 12 G	129
	2.00	0.28	0.24	6.45	2.09	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139	6.45	4.83	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139
	2.50	0.28	0.26	7.86	0.72	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	7.86	3.48	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148
3.00	1.00	0.32	0.20	3.73	6.31	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121	3.73	9.51	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.32	0.22	5.15	4.93	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130	5.15	8.15	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130
	2.00	0.32	0.24	6.56	3.56	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139	6.56	6.80	14 F 101 THRU 14 F	139	12 G 101 THRU 12 G	139
	2.50	0.32	0.26	7.98	2.18	14 F 101 THRU 14 F	149	12 G 101 THRU 12 G	149	7.98	5.44	14 F 101 THRU 14 F	149	12 G 101 THRU 12 G	149
	3.00	0.32	0.28	9.39	0.81	14 F 101 THRU 14 F	158	12 G 101 THRU 12 G	158	9.39	4.09	14 F 101 THRU 14 F	158	12 G 101 THRU 12 G	158
3.50	1.00	0.36	0.20	3.85	7.77	14 F 101 THRU 14 F	121	12 G 101 THRU 12 G	121	3.85	11.47	14 F 101 THRU 14 F	121	14 G 101 THRU 14 G	121
	1.50	0.36	0.22	5.26	6.40	14 F 101 THRU 14 F	131	12 G 101 THRU 12 G	131	5.26	10.12	14 F 101 THRU 14 F	131	14 G 101 THRU 14 G	131
	2.00	0.36	0.24	6.68	5.02	14 F 101 THRU 14 F	140	12 G 101 THRU 12 G	140	6.68	8.76	14 F 101 THRU 14 F	140	14 G 101 THRU 14 G	140
	2.50	0.36	0.26	8.09	3.65	14 F 101 THRU 14 F	150	12 G 101 THRU 12 G	150	8.09	7.41	14 F 101 THRU 14 F	150	14 G 101 THRU 14 G	150
	3.00	0.36	0.28	9.50	2.28	14 F 101 THRU 14 F	159	12 G 101 THRU 12 G	159	9.50	6.06	14 F 101 THRU 14 F	159	14 G 101 THRU 14 G	159

SLOPE = 2 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 60 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT				DIMENSION		REINFORCEMENT			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	0.81	1.96	12 F 101 THRU 12 F	103	12 G 101 THRU 12 G	103	1.50	1.27	12 F 101 THRU 12 F	108	12 G 101 THRU 12 G	108
1.50	1.00	0.22	0.20	1.12	1.70	12 F 101 THRU 12 F	105	12 G 101 THRU 12 G	105	2.10	0.72	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
	1.50	0.22	0.22	1.12	2.85	12 F 101 THRU 12 F	105	12 G 101 THRU 12 G	105	2.11	1.86	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
2.00	1.00	0.24	0.20	1.43	1.43	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	2.70	0.16	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116
	1.50	0.24	0.22	1.43	2.59	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	2.71	1.31	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116
	2.00	0.24	0.24	1.43	3.74	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	2.73	2.44	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116
2.50	1.00	0.28	0.20	1.77	1.19	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	2.96	0.37	12 F 101 THRU 12 F	117	12 G 101 THRU 12 G	117
	1.50	0.28	0.22	1.77	2.34	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.34	0.77	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	2.00	0.28	0.24	1.77	3.50	14 F 101 THRU 14 F	109	12 G 101 THRU 12 G	109	3.35	1.92	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	2.50	0.28	0.26	1.77	4.65	14 F 101 THRU 14 F	109	12 G 101 THRU 12 G	109	3.36	3.06	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
3.00	1.00	0.32	0.20	2.10	0.95	14 F 101 THRU 14 F	112	12 G 101 THRU 12 G	112	3.05	0.90	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	1.50	0.32	0.22	2.10	2.10	14 F 101 THRU 14 F	112	12 G 101 THRU 12 G	112	3.96	0.24	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
	2.00	0.32	0.24	2.10	3.26	14 F 101 THRU 14 F	112	12 G 101 THRU 12 G	112	3.97	1.39	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
	2.50	0.32	0.26	2.10	4.41	14 F 101 THRU 14 F	112	12 G 101 THRU 12 G	112	3.98	2.53	14 F 101 THRU 14 F	124	12 G 101 THRU 12 G	124
	3.00	0.32	0.28	2.10	5.57	16 F 101 THRU 16 F	112	12 G 101 THRU 12 G	112	4.00	3.67	14 F 101 THRU 14 F	124	12 G 101 THRU 12 G	124
3.50	1.00	0.36	0.20	2.44	0.70	16 F 101 THRU 16 F	114	12 G 101 THRU 12 G	114	3.14	1.43	14 F 101 THRU 14 F	119	12 G 101 THRU 12 G	119
	1.50	0.36	0.22	2.44	1.86	16 F 101 THRU 16 F	114	12 G 101 THRU 12 G	114	4.30	0.28	14 F 101 THRU 14 F	126	12 G 101 THRU 12 G	126
	2.00	0.36	0.24	2.44	3.01	16 F 101 THRU 16 F	114	12 G 101 THRU 12 G	114	4.60	0.85	14 F 101 THRU 14 F	128	12 G 101 THRU 12 G	128
	2.50	0.36	0.26	2.44	4.16	16 F 101 THRU 16 F	114	12 G 101 THRU 12 G	114	4.61	1.99	14 F 101 THRU 14 F	128	12 G 101 THRU 12 G	128
	3.00	0.36	0.28	2.44	5.32	16 F 101 THRU 16 F	114	12 G 101 THRU 12 G	114	4.62	3.14	14 F 101 THRU 14 F	128	12 G 101 THRU 12 G	128
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT				DIMENSION		REINFORCEMENT			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	2.19	0.58	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	2.77	0.12	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116
1.50	1.00	0.22	0.20	2.82	0.26	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	2.82	1.24	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116
	1.50	0.22	0.22	3.11	0.86	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	3.97	0.13	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
2.00	1.00	0.24	0.20	2.86	1.11	12 F 101 THRU 12 F	117	12 G 101 THRU 12 G	117	2.86	2.38	12 F 101 THRU 12 F	117	12 G 101 THRU 12 G	117
	1.50	0.24	0.22	4.00	0.02	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	4.02	1.26	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
	2.00	0.24	0.24	4.02	1.15	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	5.17	0.14	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
2.50	1.00	0.28	0.20	2.96	1.92	12 F 101 THRU 12 F	117	12 G 101 THRU 12 G	117	2.96	3.48	12 F 101 THRU 12 F	117	12 G 101 THRU 12 G	117
	1.50	0.28	0.22	4.11	0.80	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125	4.11	2.37	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	2.00	0.28	0.24	4.93	0.34	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131	5.27	1.24	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133
	2.50	0.28	0.26	4.95	1.47	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131	6.42	0.13	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140
3.00	1.00	0.32	0.20	3.05	2.75	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	3.05	4.59	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	1.50	0.32	0.22	4.20	1.62	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126	4.20	3.48	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	2.00	0.32	0.24	5.36	0.48	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133	5.36	2.35	14 F 101 THRU 14 F	133	12 G 101 THRU 12 G	133
	2.50	0.32	0.26	5.87	0.64	14 F 101 THRU 14 F	137	12 G 101 THRU 12 G	137	6.51	1.24	14 F 101 THRU 14 F	141	12 G 101 THRU 12 G	141
	3.00	0.32	0.28	5.89	1.78	14 F 101 THRU 14 F	137	12 G 101 THRU 12 G	137	7.67	0.11	14 F 101 THRU 14 F	149	12 G 101 THRU 12 G	149
3.50	1.00	0.36	0.20	3.14	3.57	14 F 101 THRU 14 F	119	12 G 101 THRU 12 G	119	3.14	5.70	14 F 101 THRU 14 F	119	14 G 101 THRU 14 G	119
	1.50	0.36	0.22	4.30	2.43	14 F 101 THRU 14 F	126	12 G 101 THRU 12 G	126	4.30	4.58	14 F 101 THRU 14 F	126	14 G 101 THRU 14 G	126
	2.00	0.36	0.24	5.45	1.30	14 F 101 THRU 14 F	134	12 G 101 THRU 12 G	134	5.45	3.46	14 F 101 THRU 14 F	134	14 G 101 THRU 14 G	134
	2.50	0.36	0.26	6.60	0.18	14 F 101 THRU 14 F	142	12 G 101 THRU 12 G	142	6.60	2.35	14 F 101 THRU 14 F	142	14 G 101 THRU 14 G	142
	3.00	0.36	0.28	6.80	0.96	14 F 101 THRU 14 F	143	12 G 101 THRU 12 G	143	7.76	1.22	14 F 101 THRU 14 F	149	14 G 101 THRU 14 G	149

STANDARD RCBC INLET & OUTLET																										
SLOPE = 3 : 1 SKEW = 45 Degrees																										
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES											
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL				
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING			
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL												
1.00	1.00	0.20	0.20	0.24	5.09	3.60	1.20	5.23			1.40	2.60	3.80	5.00	0.20											
1.50	1.00	0.22	0.20	0.26	5.18	3.66	1.22	5.32			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75			
	1.50	0.22	0.22	0.26	7.30	5.16	1.72	7.50			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75			
2.00	1.00	0.24	0.20	0.28	5.26	3.72	1.24	5.40			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 0.75			
	1.50	0.24	0.22	0.28	7.38	5.22	1.74	7.58			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00			
	2.00	0.24	0.24	0.28	9.50	6.72	2.24	9.76			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00			
2.50	1.00	0.28	0.20	0.32	5.43	3.84	1.28	5.58			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83			
	1.50	0.28	0.22	0.32	7.55	5.34	1.78	7.76			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83			
	2.00	0.28	0.24	0.32	9.67	6.84	2.28	9.94			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83			
	2.50	0.28	0.26	0.32	11.79	8.34	2.78	12.11			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83			
3.00	1.00	0.32	0.20	0.36	5.60	3.96	1.32	5.75			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00			
	1.50	0.32	0.22	0.36	7.72	5.46	1.82	7.93			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00			
	2.00	0.32	0.24	0.36	9.84	6.96	2.32	10.11			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00			
	2.50	0.32	0.26	0.36	11.96	8.46	2.82	12.29			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00			
3.50	3.00	0.32	0.28	0.36	14.09	9.96	3.32	14.48			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00			
	1.00	0.36	0.20	0.40	5.77	4.08	1.36	5.93			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875			
	1.50	0.36	0.22	0.40	7.89	5.58	1.86	8.11			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875			
	2.00	0.36	0.24	0.40	10.01	7.08	2.36	10.28			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875			
	2.50	0.36	0.26	0.40	12.13	8.58	2.86	12.46			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875			
3.00	0.36	0.28	0.40	14.26	10.08	3.36	14.65			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875				
NUMBER AND SPACING OF VARIABLE BARS																										
OUTER WALL											INNER WALL															
VERTICAL BARS											HORIZONTAL BARS				VERTICAL BARS						HORIZONTAL BARS					
S	NEAR FACE (N.F.)							FAR FACE (F.F.)				NEAR F. AND FAR F.				BOTH SIDES						BOTH SIDES				
1.00	14 B 101 THRU 14 B 134							12 C 101 THRU 12C 134				12 A 101 THRU 12A 107				14 D 101 THRU 14 D 134						12 E 101 THRU 12 E 107				
1.50	14 B 101 THRU 14 B 135							12 C 101 THRU 12C 135				12 A 101 THRU 12A 107				14 D 101 THRU 14 D 135						12 E 101 THRU 12 E 107				
	14 B 101 THRU 14 B 149							12 C 101 THRU 12C 149				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 149						12 E 101 THRU 12 E 111				
2.00	14 B 101 THRU 14 B 135							12 C 101 THRU 12C 135				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 135						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 149							12 C 101 THRU 12C 149				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 149						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B151, 18 B101 THRU 18 B113							12 C 101 THRU 12C 163				12 A 101 THRU 12A 114				14 D101 THRU 14 D157, 16 D101 THRU 16 D107						12 E 101 THRU 12 E 114				
2.50	14 B 101 THRU 14 B 136							12 C 101 THRU 12C 136				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 136						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 150							12 C 101 THRU 12C 150				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 150						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B151, 18B101 THRU 18 B101 THRU 18 B113							12 C 101 THRU 12C 164				12 A 101 THRU 12A 115				14 D101 THRU 14 D157, 16 D101 THRU 16 D107						12 E 101 THRU 12 E 115				
	14B101 THRU 14B151, 18B101 THRU 18 B120, 20B101 THRU 20 B108							12 C 101 THRU 12C 179				12 A 101 THRU 12A 118				14 D101 THRU 14 D157, 16 D101 THRU 16 D122						12 E 101 THRU 12 E 118				
3.00	14 B 101 THRU 14 B 137							12 C 101 THRU 12C 137				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 137						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 151							12 C 101 THRU 12C 151				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 151						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B151, 18 B101 THRU 18 B115							12 C 101 THRU 12C 166				12 A 101 THRU 12A 115				14 D101 THRU 14 D157, 16 D101 THRU 16 D109						12 E 101 THRU 12 E 115				
	14B101 THRU 14B151, 18B101 THRU 18 B120, 20B101 THRU 20 B109							12 C 101 THRU 12C 180				12 A 101 THRU 12A 118				14 D101 THRU 14 D157, 16 D101 THRU 16 D123						12 E 101 THRU 12 E 118				
	14B101 THRU 14B151, 18B101 THRU 18 B120, 20B101 THRU 20 B123							12 C 101 THRU 12C 194				12 A 101 THRU 12A 121				14 D101 THRU 14 D157, 16 D101 THRU 16 D137						12 E 101 THRU 12 E 121				
3.50	14 B 101 THRU 14 B 138							12 C 101 THRU 12C 138				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 138						12 E 101 THRU 12 E 108				
	14 B101 THRU 14 B151, 18 B101 THRU 18 B102							12 C 101 THRU 12C 153				12 A 101 THRU 12A 112				14 D 101 THRU 14 D 153						12 E 101 THRU 12 E 112				
	14 B101 THRU 14 B151, 18 B101 THRU 18 B116							12 C 101 THRU 12C 167				12 A 101 THRU 12A 115				14 D101 THRU 14 D157, 16 D101 THRU 16 D110						12 E 101 THRU 12 E 115				
	14B101 THRU 14B151, 18B101 THRU 18 B120, 20B101 THRU 20 B110							12 C 101 THRU 12C 181				12 A 101 THRU 12A 118				14 D101 THRU 14 D157, 16 D101 THRU 16 D124						12 E 101 THRU 12 E 118				
	14B101 THRU 14B151, 18B101 THRU 18 B120, 20B101 THRU 20 B124							12 C 101 THRU 12C 195				12 A 101 THRU 12A 122				14 D101 THRU 14 D157, 16 D101 THRU 16 D138						12 E 101 THRU 12 E 122				

STANDARD RCBC INLET & OUTLET																							
SLOPE = 3 : 1 SKEW = 60 Degrees																							
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES								
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL									
1.00	1.00	0.20	0.20	0.24	4.16	3.60	1.20	4.33			1.40	2.60	3.80	5.00	0.20								
1.50	1.00	0.22	0.20	0.26	4.23	3.66	1.22	4.40			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
	1.50	0.22	0.22	0.26	5.96	5.16	1.72	6.20			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	1.00	0.24	0.20	0.28	4.30	3.72	1.24	4.48			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	1.50	0.24	0.22	0.28	6.03	5.22	1.74	6.28			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	2.00	0.24	0.24	0.28	7.76	6.72	2.24	8.08			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	1.00	0.28	0.20	0.32	4.43	3.84	1.28	4.61			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	1.50	0.28	0.22	0.32	6.17	5.34	1.78	6.42			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.00	0.28	0.24	0.32	7.90	6.84	2.28	8.22			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.50	0.28	0.26	0.32	9.63	8.34	2.78	10.02			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	1.00	0.32	0.20	0.36	4.57	3.96	1.32	4.76			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	1.50	0.32	0.22	0.36	6.30	5.46	1.82	6.56			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.00	0.32	0.24	0.36	8.04	6.96	2.32	8.37			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.50	0.32	0.26	0.36	9.77	8.46	2.82	10.17			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	3.00	0.32	0.28	0.36	11.50	9.96	3.32	11.97			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	1.00	0.36	0.20	0.40	4.71	4.08	1.36	4.90			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	1.50	0.36	0.22	0.40	6.44	5.58	1.86	6.70			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.00	0.36	0.24	0.40	8.18	7.08	2.36	8.51			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.50	0.36	0.26	0.40	9.91	8.58	2.86	10.31			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	3.00	0.36	0.28	0.40	11.64	10.08	3.36	12.12			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
NUMBER AND SPACING OF VARIABLE BARS																							
OUTER WALL											INNER WALL												
VERTICAL BARS											HORIZONTAL BARS			VERTICAL BARS					HORIZONTAL BARS				
S	NEAR FACE (N.F.)							FAR FACE (F.F.)				NEAR F. AND FAR F.			BOTH SIDES					BOTH SIDES			
1.00	14 B 101 THRU 14 B 128							12 C 101 THRU 12C 128				12 A 101 THRU 12A 107			14 D 101 THRU 14 D 128					12 E 101 THRU 12 E 107			
1.50	14 B 101 THRU 14 B 128							12 C 101 THRU 12C 128				12 A 101 THRU 12A 107			14 D 101 THRU 14 D 128					12 E 101 THRU 12 E 107			
	14 B 101 THRU 14 B 140							12 C 101 THRU 12C 140				12 A 101 THRU 12A 111			14 D 101 THRU 14 D 140					12 E 101 THRU 12 E 111			
2.00	14 B 101 THRU 14 B 129							12 C 101 THRU 12C 129				12 A 101 THRU 12A 108			14 D 101 THRU 14 D 129					12 E 101 THRU 12 E 108			
	14 B 101 THRU 14 B 140							12 C 101 THRU 12C 140				12 A 101 THRU 12A 111			14 D 101 THRU 14 D 140					12 E 101 THRU 12 E 111			
	14 B101 THRU 14 B146, 18 B101 THRU 18 B106							12 C 101 THRU 12C 152				12 A 101 THRU 12A 114			14 D101 THRU 14 D146, 16 D101 THRU 16 D106					12 E 101 THRU 12 E 114			
2.50	14 B 101 THRU 14 B 130							12 C 101 THRU 12C 130				12 A 101 THRU 12A 108			14 D 101 THRU 14 D 130					12 E 101 THRU 12 E 108			
	14 B 101 THRU 14 B 141							12 C 101 THRU 12C 141				12 A 101 THRU 12A 111			14 D 101 THRU 14 D 141					12 E 101 THRU 12 E 111			
	14 B101 THRU 14 B146, 18 B101 THRU 18 B107							12 C 101 THRU 12C 153				12 A 101 THRU 12A 115			14 D101 THRU 14 D146, 16 D101 THRU 16 D107					12 E 101 THRU 12 E 115			
	14B101 THRU 14B146, 18B101 THRU 18 B112, 20B101 THRU 20 B106							12 C 101 THRU 12C 164				12 A 101 THRU 12A 118			14 D101 THRU 14 D146, 16 D101 THRU 16 D118					12 E 101 THRU 12 E 118			
3.00	14 B 101 THRU 14 B 130							12 C 101 THRU 12C 130				12 A 101 THRU 12A 108			14 D 101 THRU 14 D 130					12 E 101 THRU 12 E 108			
	14 B 101 THRU 14 B 142							12 C 101 THRU 12C 142				12 A 101 THRU 12A 111			14 D 101 THRU 14 D 142					12 E 101 THRU 12 E 111			
	14 B101 THRU 14 B146, 18 B101 THRU 18 B108							12 C 101 THRU 12C 154				12 A 101 THRU 12A 115			14 D101 THRU 14 D146, 16 D101 THRU 16 D108					12 E 101 THRU 12 E 115			
	14B101 THRU 14B146, 18B101 THRU 18 B110							12 C 101 THRU 12C 165				12 A 101 THRU 12A 118			14 D101 THRU 14 D146, 16 D101 THRU 16 D110					12 E 101 THRU 12 E 118			
	14B101 THRU 14B146, 18B101 THRU 18 B112, 20B101 THRU 20 B119							12 C 101 THRU 12C 177				12 A 101 THRU 12A 121			14 D101 THRU 14 D146, 16 D101 THRU 16 D131					12 E 101 THRU 12 E 121			
3.50	14 B 101 THRU 14 B 131							12 C 101 THRU 12C 131				12 A 101 THRU 12A 108			14 D 101 THRU 14 D 131					12 E 101 THRU 12 E 108			
	14 B 101 THRU 14 B 143							12 C 101 THRU 12C 143				12 A 101 THRU 12A 112			14 D 101 THRU 14 D 143					12 E 101 THRU 12 E 112			
	14 B101 THRU 14 B146, 18 B101 THRU 18 B109							12 C 101 THRU 12C 155				12 A 101 THRU 12A 115			14 D101 THRU 14 D146, 16 D101 THRU 16 D109					12 E 101 THRU 12 E 115			
	14B101 THRU 14B146, 18B101 THRU 18 B120, 20B101 THRU 20 B108							12 C 101 THRU 12C 166				12 A 101 THRU 12A 118			14 D101 THRU 14 D146, 16 D101 THRU 16 D121					12 E 101 THRU 12 E 118			
	14B101 THRU 14B146, 18B101 THRU 18 B112, 20B101 THRU 20 B120							12 C 101 THRU 12C 178				12 A 101 THRU 12A 122			14 D101 THRU 14 D146, 16 D101 THRU 16 D132					12 E 101 THRU 12 E 122			

STANDARD RCBC INLET & OUTLET																							
SLOPE = 3 : 1 SKEW = 90 Degrees																							
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES								
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4									
S	H	W1	W2		T1	L1	L2	h1	C	-	-	CELL	CELL	CELL		CELL	NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.
1.00	1.00	0.20	0.20	0.24	3.60	3.60	1.20	3.79			1.40	2.60	3.80	5.00	0.20								
1.50	1.00	0.22	0.20	0.26	3.66	3.66	1.22	3.86			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
	1.50	0.22	0.22	0.26	5.16	5.16	1.72	5.44			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	1.00	0.24	0.20	0.28	3.72	3.72	1.24	3.92			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	1.50	0.24	0.22	0.28	5.22	5.22	1.74	5.50			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	2.00	0.24	0.24	0.28	6.72	6.72	2.24	7.08			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	1.00	0.28	0.20	0.32	3.84	3.84	1.28	4.05			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	1.50	0.28	0.22	0.32	5.34	5.34	1.78	5.63			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.00	0.28	0.24	0.32	6.84	6.84	2.28	7.21			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.50	0.28	0.26	0.32	8.34	8.34	2.78	8.79			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	1.00	0.32	0.20	0.36	3.96	3.96	1.32	4.17			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	1.50	0.32	0.22	0.36	5.46	5.46	1.82	5.76			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.00	0.32	0.24	0.36	6.96	6.96	2.32	7.34			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.50	0.32	0.26	0.36	8.46	8.46	2.82	8.92			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	3.00	0.32	0.28	0.36	9.96	9.96	3.32	10.50			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	1.00	0.36	0.20	0.40	4.08	4.08	1.36	4.30			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	1.50	0.36	0.22	0.40	5.58	5.58	1.86	5.88			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.00	0.36	0.24	0.40	7.08	7.08	2.36	7.46			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.50	0.36	0.26	0.40	8.58	8.58	2.86	9.04			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	3.00	0.36	0.28	0.40	10.08	10.08	3.36	10.63			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
NUMBER AND SPACING OF VARIABLE BARS																							
OUTER WALL											INNER WALL												
VERTICAL BARS											HORIZONTAL BARS												
S	NEAR FACE (N.F.)						FAR FACE (F.F.)				NEAR F. AND FAR F.				VERTICAL BARS BOTH SIDES				HORIZONTAL BARS BOTH SIDES				
1.00	14 B 101 THRU 14 B 124						12 C 101 THRU 12C 124				12 A 101 THRU 12A 107				14 D 101 THRU 14 D 124				12 E 101 THRU 12 E 107				
1.50	14 B 101 THRU 14 B 124						12 C 101 THRU 12C 124				12 A 101 THRU 12A 107				14 D 101 THRU 14 D 124				12 E 101 THRU 12 E 107				
	14 B 101 THRU 14 B 134						12 C 101 THRU 12C 134				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 134				12 E 101 THRU 12 E 111				
2.00	14 B 101 THRU 14 B 125						12 C 101 THRU 12C 125				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 125				12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 135						12 C 101 THRU 12C 135				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 135				12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B140, 18 B101 THRU 18 B104						12 C 101 THRU 12C 145				12 A 101 THRU 12A 114				14 D101 THRU 14 D140, 16 D101 THRU 16 D104				12 E 101 THRU 12 E 114				
2.50	14 B 101 THRU 14 B 126						12 C 101 THRU 12C 126				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 126				12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 136						12 C 101 THRU 12C 136				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 136				12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B140, 18 B101 THRU 18 B106						12 C 101 THRU 12C 146				12 A 101 THRU 12A 115				14 D101 THRU 14 D140, 16 D101 THRU 16 D106				12 E 101 THRU 12 E 115				
	14B101 THRU 14B140, 18B101 THRU 18 B116						12 C 101 THRU 12C 156				12 A 101 THRU 12A 118				14 D101 THRU 14 D140, 16 D101 THRU 16 D116				12 E 101 THRU 12 E 118				
3.00	14 B 101 THRU 14 B 126						12 C 101 THRU 12C 126				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 126				12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 136						12 C 101 THRU 12C 136				12 A 101 THRU 12A 111				14 D 101 THRU 14 D 136				12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B140, 18 B101 THRU 18 B107						12 C 101 THRU 12C 146				12 A 101 THRU 12A 115				14 D101 THRU 14 D140, 16 D101 THRU 16 D107				12 E 101 THRU 12 E 115				
	14B101 THRU 14B140, 18B101 THRU 18 B116						12 C 101 THRU 12C 156				12 A 101 THRU 12A 118				14 D101 THRU 14 D140, 16 D101 THRU 16 D116				12 E 101 THRU 12 E 118				
	14B101 THRU 14B140, 18B101 THRU 18 B121, 20B101 THRU 20 B105						12 C 101 THRU 12C 166				12 A 101 THRU 12A 121				14 D101 THRU 14 D140, 16 D101 THRU 16 D126				12 E 101 THRU 12 E 121				
3.50	14 B 101 THRU 14 B 127						12 C 101 THRU 12C 127				12 A 101 THRU 12A 108				14 D 101 THRU 14 D 127				12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 137						12 C 101 THRU 12C 137				12 A 101 THRU 12A 112				14 D 101 THRU 14 D 137				12 E 101 THRU 12 E 112				
	14 B101 THRU 14 B140, 18 B101 THRU 18 B107						12 C 101 THRU 12C 147				12 A 101 THRU 12A 115				14 D101 THRU 14 D140, 16 D101 THRU 16 D107				12 E 101 THRU 12 E 115				
	14B101 THRU 14B140, 18B101 THRU 18 B117						12 C 101 THRU 12C 157				12 A 101 THRU 12A 118				14 D101 THRU 14 D140, 16 D101 THRU 16 D117				12 E 101 THRU 12 E 118				
	14B101 THRU 14B140, 18B101 THRU 18 B121, 20B101 THRU 20 B107						12 C 101 THRU 12C 167				12 A 101 THRU 12A 122				14 D101 THRU 14 D140, 16 D101 THRU 16 D127				12 E 101 THRU 12 E 122				

SLOPE = 3 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 45 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	1.40	3.69	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.60	2.49	12 F 101 THRU 12 F	110	12 G 101 THRU 12 G	110
1.50	1.00	0.22	0.20	1.94	3.24	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.64	1.54	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	1.50	0.22	0.22	1.94	5.36	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.66	3.64	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
2.00	1.00	0.24	0.20	2.48	2.78	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.68	0.58	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	1.50	0.24	0.22	2.48	4.90	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.70	2.68	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	2.00	0.24	0.24	2.48	7.02	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.72	4.78	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
2.50	1.00	0.28	0.20	3.06	2.37	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.43	0.33	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
	1.50	0.28	0.22	3.06	4.49	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.78	1.77	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	2.00	0.28	0.24	3.06	6.61	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.80	3.87	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	2.50	0.28	0.26	3.06	8.73	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.82	5.97	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
3.00	1.00	0.32	0.20	3.64	1.96	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	5.60	1.24	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	1.50	0.32	0.22	3.64	4.08	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.86	0.86	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.00	0.32	0.24	3.64	6.20	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.88	2.96	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.50	0.32	0.26	3.64	8.32	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.90	5.06	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
3.50	3.00	0.32	0.28	3.64	10.45	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.92	7.17	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
	1.00	0.36	0.20	4.22	1.55	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	5.77	2.15	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	1.50	0.36	0.22	4.22	3.67	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.89	0.05	12 F 101 THRU 12 F	136	12 G 101 THRU 12 G	136
	2.00	0.36	0.24	4.22	5.79	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.96	2.05	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.50	0.36	0.26	4.22	7.91	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.98	4.15	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	3.00	0.36	0.28	4.22	10.04	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	8.00	6.26	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	3.80	1.29	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	5.00	0.09	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
1.50	1.00	0.22	0.20	5.18	0.16	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	5.18	1.86	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123
	1.50	0.22	0.22	5.38	1.92	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	7.10	0.20	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133
2.00	1.00	0.24	0.20	5.26	1.62	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	5.26	3.82	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123
	1.50	0.24	0.22	6.92	0.46	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	7.38	1.76	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134
	2.00	0.24	0.24	6.96	2.54	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	9.20	0.30	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
2.50	1.00	0.28	0.20	5.43	3.03	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	5.43	5.73	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124
	1.50	0.28	0.22	7.55	0.95	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135	7.55	3.67	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135
	2.00	0.28	0.24	8.54	1.13	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	9.67	1.61	12 F 101 THRU 12 F	145	12 G 101 THRU 12 G	145
	2.50	0.28	0.26	8.58	3.21	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	11.34	0.45	12 F 101 THRU 12 F	154	12 G 101 THRU 12 G	154
3.00	1.00	0.32	0.20	5.60	4.44	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125	5.60	7.64	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	1.50	0.32	0.22	7.72	2.36	12 F 101 THRU 12 F	136	12 G 101 THRU 12 G	136	7.72	5.58	12 F 101 THRU 12 F	136	12 G 101 THRU 12 G	136
	2.00	0.32	0.24	9.84	0.28	12 F 101 THRU 12 F	146	12 G 101 THRU 12 G	146	9.84	3.52	12 F 101 THRU 12 F	146	12 G 101 THRU 12 G	146
	2.50	0.32	0.26	10.16	1.80	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	11.96	1.46	12 F 101 THRU 12 F	157	12 G 101 THRU 12 G	157
3.50	3.00	0.32	0.28	10.20	3.89	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	13.48	0.61	12 F 101 THRU 12 F	164	12 G 101 THRU 12 G	164
	1.00	0.36	0.20	5.77	5.85	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126	5.77	9.55	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	1.50	0.36	0.22	7.89	3.77	12 F 101 THRU 12 F	136	12 G 101 THRU 12 G	136	7.89	7.49	12 F 101 THRU 12 F	136	12 G 101 THRU 12 G	136
	2.00	0.36	0.24	10.01	1.69	12 F 101 THRU 12 F	147	12 G 101 THRU 12 G	147	10.01	5.43	12 F 101 THRU 12 F	147	12 G 101 THRU 12 G	147
	2.50	0.36	0.26	11.74	0.39	12 F 101 THRU 12 F	156	12 G 101 THRU 12 G	156	12.13	3.37	12 F 101 THRU 12 F	158	12 G 101 THRU 12 G	158
	3.00	0.36	0.28	11.78	2.48	12 F 101 THRU 12 F	156	12 G 101 THRU 12 G	156	14.26	1.30	12 F 101 THRU 12 F	168	12 G 101 THRU 12 G	168

SLOPE = 3 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 60 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	0.81	3.35	12 F 101 THRU 12 F	103	12 G 101 THRU 12 G	103	1.50	2.66	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106
1.50	1.00	0.22	0.20	1.12	3.11	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.10	2.13	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109
	1.50	0.22	0.22	1.12	4.84	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.11	3.85	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109
2.00	1.00	0.24	0.20	1.43	2.87	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.70	1.60	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
	1.50	0.24	0.22	1.43	4.60	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.71	3.32	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
	2.00	0.24	0.24	1.43	6.33	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.73	5.03	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
2.50	1.00	0.28	0.20	1.77	2.66	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.33	1.10	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	1.50	0.28	0.22	1.77	4.40	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.34	2.83	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	2.00	0.28	0.24	1.77	6.13	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.35	4.55	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	2.50	0.28	0.26	1.77	7.86	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.36	6.27	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
3.00	1.00	0.32	0.20	2.10	2.47	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.95	0.62	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	1.50	0.32	0.22	2.10	4.20	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.96	2.34	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	2.00	0.32	0.24	2.10	5.94	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.97	4.07	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	2.50	0.32	0.26	2.10	7.67	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.98	5.79	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	3.00	0.32	0.28	2.10	9.40	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.00	7.50	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
3.50	1.00	0.36	0.20	2.44	2.27	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.57	0.14	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.36	0.22	2.44	4.00	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.58	1.86	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	2.00	0.36	0.24	2.44	5.74	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.60	3.58	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
	2.50	0.36	0.26	2.44	7.47	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.61	5.30	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
	3.00	0.36	0.28	2.44	9.20	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.62	7.02	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	2.19	1.97	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	2.89	1.27	12 F 101 THRU 12 F	113	12 G 101 THRU 12 G	113
1.50	1.00	0.22	0.20	3.08	1.15	12 F 101 THRU 12 F	114	12 G 101 THRU 12 G	114	4.06	0.17	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.22	0.22	3.11	2.85	12 F 101 THRU 12 F	114	12 G 101 THRU 12 G	114	4.10	1.86	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
2.00	1.00	0.24	0.20	3.97	0.33	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	4.30	0.94	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	1.50	0.24	0.22	4.00	2.03	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	5.28	0.75	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	2.00	0.24	0.24	4.02	3.74	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	5.31	2.45	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
2.50	1.00	0.28	0.20	4.43	0.45	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121	4.43	2.01	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.28	0.22	4.91	1.26	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.17	0.31	12 F 101 THRU 12 F	129	12 G 101 THRU 12 G	129
	2.00	0.28	0.24	4.93	2.97	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.51	1.39	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.50	0.28	0.26	4.95	4.68	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.55	3.08	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
3.00	1.00	0.32	0.20	4.57	1.23	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121	4.57	3.07	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.32	0.22	5.82	0.48	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	6.30	1.38	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130
	2.00	0.32	0.24	5.84	2.20	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.71	0.33	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.50	0.32	0.26	5.87	3.90	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.75	2.02	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	3.00	0.32	0.28	5.89	5.61	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.78	3.72	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
3.50	1.00	0.36	0.20	4.71	2.00	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122	4.71	4.13	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
	1.50	0.36	0.22	6.44	0.29	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131	6.44	2.44	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.00	0.36	0.24	6.75	1.43	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	8.18	0.73	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139
	2.50	0.36	0.26	6.78	3.13	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	8.95	0.96	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
	3.00	0.36	0.28	6.80	4.84	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133	8.98	2.66	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143

STANDARD RCBC INLET & OUTLET																								
SLOPE = 4 : 1 SKEW = 45 Degrees																								
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES									
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL		
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING	
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL										
1.00	1.00	0.20	0.20	0.24	6.79	4.80	1.20	6.90			1.40	2.60	3.80	5.00	0.20									
1.50	1.00	0.22	0.20	0.26	6.90	4.88	1.22	7.01			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75	
	1.50	0.22	0.22	0.26	9.73	6.88	1.72	9.88			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75	
2.00	1.00	0.24	0.20	0.28	7.01	4.96	1.24	7.12			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00	
	1.50	0.24	0.22	0.28	9.84	6.96	1.74	9.99			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00	
	2.00	0.24	0.24	0.28	12.67	8.96	2.24	12.87			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00	
2.50	1.00	0.28	0.20	0.32	7.24	5.12	1.28	7.35			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83	
	1.50	0.28	0.22	0.32	10.07	7.12	1.78	10.23			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83	
	2.00	0.28	0.24	0.32	12.90	9.12	2.28	13.10			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83	
	2.50	0.28	0.26	0.32	15.73	11.12	2.78	15.97			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83	
3.00	1.00	0.32	0.20	0.36	7.47	5.28	1.32	7.59			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00	
	1.50	0.32	0.22	0.36	10.30	7.28	1.82	10.46			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00	
	2.00	0.32	0.24	0.36	13.12	9.28	2.32	13.32			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00	
	2.50	0.32	0.26	0.36	15.95	11.28	2.82	16.20			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00	
3.50	3.00	0.32	0.28	0.36	18.78	13.28	3.32	19.07			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00	
	1.00	0.36	0.20	0.40	7.69	5.44	1.36	7.81			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875	
	1.50	0.36	0.22	0.40	10.52	7.44	1.86	10.68			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875	
	2.00	0.36	0.24	0.40	13.35	9.44	2.36	13.56			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875	
	2.50	0.36	0.26	0.40	16.18	11.44	2.86	16.43			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875	
	3.00	0.36	0.28	0.40	19.01	13.44	3.36	19.30			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875	
NUMBER AND SPACING OF VARIABLE BARS																								
OUTER WALL											INNER WALL													
VERTICAL BARS											HORIZONTAL BARS			VERTICAL BARS						HORIZONTAL BARS				
S	NEAR FACE (N.F.)							FAR FACE (F.F.)			NEAR F. AND FAR F.			BOTH SIDES						BOTH SIDES				
1.00	14 B 101 THRU 14 B 145							12 C 101 THRU 12C 145			12 A 101 THRU 12A 107			14 D 101 THRU 14 D 145						12 E 101 THRU 12 E 107				
1.50	14 B 101 THRU 14 B 146							12 C 101 THRU 12C 146			12 A 101 THRU 12A 107			14 D 101 THRU 14 D 146						12 E 101 THRU 12 E 107				
	14 B 101 THRU 14 B 165							12 C 101 THRU 12C 165			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 165						12 E 101 THRU 12 E 111				
2.00	14 B 101 THRU 14 B 147							12 C 101 THRU 12C 147			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 147						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 165							12 C 101 THRU 12C 166			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 166						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B175, 18 B101 THRU 18 B109							12 C 101 THRU 12C 184			12 A 101 THRU 12A 114			14 D101 THRU 14 D176, 16 D101 THRU 16 D108						12 E 101 THRU 12 E 114				
2.50	14 B 101 THRU 14 B 148							12 C 101 THRU 12C 148			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 148						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 167							12 C 101 THRU 12C 167			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 167						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B175, 18 B101 THRU 18 B111							12 C 101 THRU 12C 186			12 A 101 THRU 12A 115			14 D101 THRU 14 D176, 16 D101 THRU 16 D110						12 E 101 THRU 12 E 115				
	14B101 THRU 14B175, 18B101 THRU 18 B129							12 C 101 THRU 12C 205			12 A 101 THRU 12A 118			14 D101 THRU 14 D176, 16 D101 THRU 16 D129						12 E 101 THRU 12 E 118				
3.00	14 B 101 THRU 14 B 150							12 C 101 THRU 12C 150			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 150						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 169							12 C 101 THRU 12C 169			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 169						12 E 101 THRU 12 E 111				
	14 B101 THRU 14 B175, 18 B101 THRU 18 B112							12 C 101 THRU 12C 187			12 A 101 THRU 12A 115			14 D101 THRU 14 D176, 16 D101 THRU 16 D111						12 E 101 THRU 12 E 115				
	14B101 THRU 14B175, 18B101 THRU 18 B131							12 C 101 THRU 12C 206			12 A 101 THRU 12A 118			14 D101 THRU 14 D176, 16 D101 THRU 16 D130						12 E 101 THRU 12 E 118				
	14B101 THRU 14B175, 18B101 THRU 18 B137, 20B101 THRU 20 B113							12 C 101 THRU 12C 225			12 A 101 THRU 12A 121			14 D101 THRU 14 D176, 16 D101 THRU 16 D149						12 E 101 THRU 12 E 121				
3.50	14 B 101 THRU 14 B 151							12 C 101 THRU 12C 151			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 151						12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 170							12 C 101 THRU 12C 170			12 A 101 THRU 12A 112			14 D 101 THRU 14 D 170						12 E 101 THRU 12 E 112				
	14 B101 THRU 14 B175, 18 B101 THRU 18 B114							12 C 101 THRU 12C 189			12 A 101 THRU 12A 115			14 D101 THRU 14 D176, 16 D101 THRU 16 D113						12 E 101 THRU 12 E 115				
	14B101 THRU 14B175, 18B101 THRU 18 B133							12 C 101 THRU 12C 208			12 A 101 THRU 12A 118			14 D101 THRU 14 D176, 16 D101 THRU 16 D132						12 E 101 THRU 12 E 118				
	14B101 THRU 14B175, 18B101 THRU 18 B137, 20B101 THRU 20 B115							12 C 101 THRU 12C 227			12 A 101 THRU 12A 122			14 D101 THRU 14 D176, 16 D101 THRU 16 D151						12 E 101 THRU 12 E 122				

STANDARD RCBC INLET & OUTLET																									
SLOPE = 4 : 1 SKEW = 60 Degrees																									
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES										
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL			
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING		
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL											
1.00	1.00	0.20	0.20	0.24	5.54	4.80	1.20	5.67			1.40	2.60	3.80	5.00	0.20										
1.50	1.00	0.22	0.20	0.26	5.63	4.88	1.22	5.76			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75		
	1.50	0.22	0.22	0.26	7.94	6.88	1.72	8.12			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75		
2.00	1.00	0.24	0.20	0.28	5.73	4.96	1.24	5.86			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00		
	1.50	0.24	0.22	0.28	8.04	6.96	1.74	8.23			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00		
	2.00	0.24	0.24	0.28	10.35	8.96	2.24	10.59			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00		
2.50	1.00	0.28	0.20	0.32	5.91	5.12	1.28	6.05			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83		
	1.50	0.28	0.22	0.32	8.22	7.12	1.78	8.41			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83		
	2.00	0.28	0.24	0.32	10.53	9.12	2.28	10.77			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83		
	2.50	0.28	0.26	0.32	12.84	11.12	2.78	13.14			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83		
3.00	1.00	0.32	0.20	0.36	6.10	5.28	1.32	6.24			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00		
	1.50	0.32	0.22	0.36	8.41	7.28	1.82	8.60			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00		
	2.00	0.32	0.24	0.36	10.72	9.28	2.32	10.97			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00		
	2.50	0.32	0.26	0.36	13.03	11.28	2.82	13.33			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00		
3.50	3.00	0.32	0.28	0.36	15.33	13.28	3.32	15.69			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00		
	1.00	0.36	0.20	0.40	6.28	5.44	1.36	6.43			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875		
	1.50	0.36	0.22	0.40	8.59	7.44	1.86	8.79			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875		
	2.00	0.36	0.24	0.40	10.90	9.44	2.36	11.15			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875		
	2.50	0.36	0.26	0.40	13.21	11.44	2.86	13.52			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875		
	3.00	0.36	0.28	0.40	15.52	13.44	3.36	15.88			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875		
NUMBER AND SPACING OF VARIABLE BARS																									
OUTER WALL											INNER WALL														
VERTICAL BARS											HORIZONTAL BARS		VERTICAL BARS						HORIZONTAL BARS						
S	NEAR FACE (N.F.)							FAR FACE (F.F.)				NEAR F. AND FAR F.		BOTH SIDES						BOTH SIDES					
1.00	14 B 101 THRU 14 B 137							12 C 101 THRU 12C 137				12 A 101 THRU 12A 107		14 D 101 THRU 14 D 137						12 E 101 THRU 12 E 107					
1.50	14 B 101 THRU 14 B 137							12 C 101 THRU 12C 138				12 A 101 THRU 12A 107		14 D 101 THRU 14 D 138						12 E 101 THRU 12 E 107					
	14 B 101 THRU 14 B 153							12 C 101 THRU 12C 153				12 A 101 THRU 12A 111		14 D 101 THRU 14 D 153						12 E 101 THRU 12 E 111					
2.00	14 B 101 THRU 14 B 138							12 C 101 THRU 12C 138				12 A 101 THRU 12A 108		14 D 101 THRU 14 D 138						12 E 101 THRU 12 E 108					
	14 B 101 THRU 14 B 153							12 C 101 THRU 12C 154				12 A 101 THRU 12A 111		14 D 101 THRU 14 D 154						12 E 101 THRU 12 E 111					
	14 B 101 THRU 14 B 169							12 C 101 THRU 12C 169				12 A 101 THRU 12A 114		14 D101 THRU 14 D162, 16 D101 THRU 16 D106						12 E 101 THRU 12 E 114					
2.50	14 B 101 THRU 14 B 139							12 C 101 THRU 12C 139				12 A 101 THRU 12A 108		14 D 101 THRU 14 D 139						12 E 101 THRU 12 E 108					
	14 B 101 THRU 14 B 155							12 C 101 THRU 12C 155				12 A 101 THRU 12A 111		14 D 101 THRU 14 D 155						12 E 101 THRU 12 E 111					
	14 B 101 THRU 14 B 170							12 C 101 THRU 12C 170				12 A 101 THRU 12A 115		14 D101 THRU 14 D162, 16 D101 THRU 16 D108						12 E 101 THRU 12 E 115					
	14B101 THRU 14B177, 18B101 THRU 18 B108							12 C 101 THRU 12C 186				12 A 101 THRU 12A 118		14 D101 THRU 14 D162, 16 D101 THRU 16 D123						12 E 101 THRU 12 E 118					
3.00	14 B 101 THRU 14 B 141							12 C 101 THRU 12C 141				12 A 101 THRU 12A 108		14 D 101 THRU 14 D 141						12 E 101 THRU 12 E 108					
	14 B 101 THRU 14 B 156							12 C 101 THRU 12C 156				12 A 101 THRU 12A 111		14 D 101 THRU 14 D 156						12 E 101 THRU 12 E 111					
	14 B 101 THRU 14 B 171							12 C 101 THRU 12C 171				12 A 101 THRU 12A 115		14 D101 THRU 14 D162, 16 D101 THRU 16 D109						12 E 101 THRU 12 E 115					
	14B101 THRU 14B177, 18B101 THRU 18 B109							12 C 101 THRU 12C 187				12 A 101 THRU 12A 118		14 D101 THRU 14 D162, 16 D101 THRU 16 D124						12 E 101 THRU 12 E 118					
	14B101 THRU 14B177, 18B101 THRU 18 B114, 20B101 THRU 20 B111							12 C 101 THRU 12C 202				12 A 101 THRU 12A 121		14 D101 THRU 14 D162, 16 D101 THRU 16 D140						12 E 101 THRU 12 E 121					
3.50	14 B 101 THRU 14 B 142							12 C 101 THRU 12C 142				12 A 101 THRU 12A 108		14 D 101 THRU 14 D 142						12 E 101 THRU 12 E 108					
	14 B 101 THRU 14 B 157							12 C 101 THRU 12C 157				12 A 101 THRU 12A 112		14 D 101 THRU 14 D 157						12 E 101 THRU 12 E 112					
	14 B 101 THRU 14 B 173							12 C 101 THRU 12C 173				12 A 101 THRU 12A 115		14 D101 THRU 14 D162, 16 D101 THRU 16 D111						12 E 101 THRU 12 E 115					
	14B101 THRU 14B177, 18B101 THRU 18 B111							12 C 101 THRU 12C 188				12 A 101 THRU 12A 118		14 D101 THRU 14 D162, 16 D101 THRU 16 D126						12 E 101 THRU 12 E 118					
	14B101 THRU 14B177, 18B101 THRU 18 B114, 20B101 THRU 20 B113							12 C 101 THRU 12C 203				12 A 101 THRU 12A 122		14 D101 THRU 14 D162, 16 D101 THRU 16 D142						12 E 101 THRU 12 E 122					

STANDARD RCBC INLET & OUTLET																							
SLOPE = 4 : 1 SKEW = 90 Degrees																							
DIMENSIONAL SCHEDULE FOR INLET & OUTLET															ROW OF GRATE PIPES								
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
S	H	W1	W2	T1	L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL									
1.00	1.00	0.20	0.20	0.24	4.80	4.80	1.20	4.95			1.40	2.60	3.80	5.00	0.20								
1.50	1.00	0.22	0.20	0.26	4.88	4.88	1.22	5.03			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
	1.50	0.22	0.22	0.26	6.88	6.88	1.72	7.09			1.94	3.66	5.38	7.10	0.22	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	1.00	0.24	0.20	0.28	4.96	4.96	1.24	5.11			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	1.50	0.24	0.22	0.28	6.96	6.96	1.74	7.17			2.48	4.70	6.92	9.14	0.22	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
	2.00	0.24	0.24	0.28	8.96	8.96	2.24	9.24			2.48	4.72	6.96	9.20	0.24	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	1.00	0.28	0.20	0.32	5.12	5.12	1.28	5.28			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	1.50	0.28	0.22	0.32	7.12	7.12	1.78	7.34			3.06	5.78	8.50	11.22	0.26	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.00	0.28	0.24	0.32	9.12	9.12	2.28	9.40			3.06	5.80	8.54	11.28	0.27	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
	2.50	0.28	0.26	0.32	11.12	11.12	2.78	11.46			3.06	5.82	8.58	11.34	0.28	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	1.00	0.32	0.20	0.36	5.28	5.28	1.32	5.44			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	1.50	0.32	0.22	0.36	7.28	7.28	1.82	7.50			3.64	6.86	10.08	13.30	0.26	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.00	0.32	0.24	0.36	9.28	9.28	2.32	9.57			3.64	6.88	10.12	13.36	0.28	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	2.50	0.32	0.26	0.36	11.28	11.28	2.82	11.63			3.64	6.90	10.16	13.42	0.29	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	3.00	0.32	0.28	0.36	13.28	13.28	3.32	13.69			3.64	6.92	10.20	13.48	0.30	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
	1.00	0.36	0.20	0.40	5.44	5.44	1.36	5.61			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	1.50	0.36	0.22	0.40	7.44	7.44	1.86	7.67			4.22	7.94	11.66	15.38	0.26	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.00	0.36	0.24	0.40	9.44	9.44	2.36	9.73			4.22	7.96	11.70	15.44	0.28	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	2.50	0.36	0.26	0.40	11.44	11.44	2.86	11.79			4.22	7.98	11.74	15.50	0.29	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
	3.00	0.36	0.28	0.40	13.44	13.44	3.36	13.85			4.22	8.00	11.78	15.56	0.31	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875
NUMBER AND SPACING OF VARIABLE BARS																							
OUTER WALL											INNER WALL												
VERTICAL BARS											HORIZONTAL BARS			VERTICAL BARS					HORIZONTAL BARS				
S	NEAR FACE (N.F.)							FAR FACE (F.F.)			NEAR F. AND FAR F.			BOTH SIDES					BOTH SIDES				
1.00	14 B 101 THRU 14 B 132							12 C 101 THRU 12C 132			12 A 101 THRU 12A 107			14 D 101 THRU 14 D 132					12 E 101 THRU 12 E 107				
1.50	14 B 101 THRU 14 B 132							12 C 101 THRU 12C 133			12 A 101 THRU 12A 107			14 D 101 THRU 14 D 133					12 E 101 THRU 12 E 107				
	14 B 101 THRU 14 B 146							12 C 101 THRU 12C 146			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 146					12 E 101 THRU 12 E 111				
2.00	14 B 101 THRU 14 B 133							12 C 101 THRU 12C 133			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 133					12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 146							12 C 101 THRU 12C 146			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 146					12 E 101 THRU 12 E 111				
	14 B 101 THRU 14 B 160							12 C 101 THRU 12C 160			12 A 101 THRU 12A 114			14 D101 THRU 14 D154, 16 D101 THRU 16 D105					12 E 101 THRU 12 E 114				
2.50	14 B 101 THRU 14 B 134							12 C 101 THRU 12C 134			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 134					12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 147							12 C 101 THRU 12C 147			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 147					12 E 101 THRU 12 E 111				
	14 B 101 THRU 14 B 161							12 C 101 THRU 12C 161			12 A 101 THRU 12A 115			14 D101 THRU 14 D154, 16 D101 THRU 16 D106					12 E 101 THRU 12 E 115				
	14B101 THRU 14B168, 18B101 THRU 18 B106							12 C 101 THRU 12C 174			12 A 101 THRU 12A 118			14 D101 THRU 14 D154, 16 D101 THRU 16 D120					12 E 101 THRU 12 E 118				
3.00	14 B 101 THRU 14 B 135							12 C 101 THRU 12C 135			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 135					12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 148							12 C 101 THRU 12C 149			12 A 101 THRU 12A 111			14 D 101 THRU 14 D 149					12 E 101 THRU 12 E 111				
	14 B 101 THRU 14 B 162							12 C 101 THRU 12C 162			12 A 101 THRU 12A 115			14 D101 THRU 14 D154, 16 D101 THRU 16 D107					12 E 101 THRU 12 E 115				
	14B101 THRU 14B168, 18B101 THRU 18 B107							12 C 101 THRU 12C 175			12 A 101 THRU 12A 118			14 D101 THRU 14 D154, 16 D101 THRU 16 D121					12 E 101 THRU 12 E 118				
	14B101 THRU 14B168, 18B101 THRU 18 B112, 20B101 THRU 20 B108							12 C 101 THRU 12C 189			12 A 101 THRU 12A 121			14 D101 THRU 14 D154, 16 D101 THRU 16 D134					12 E 101 THRU 12 E 121				
3.50	14 B 101 THRU 14 B 136							12 C 101 THRU 12C 136			12 A 101 THRU 12A 108			14 D 101 THRU 14 D 136					12 E 101 THRU 12 E 108				
	14 B 101 THRU 14 B 149							12 C 101 THRU 12C 150			12 A 101 THRU 12A 112			14 D 101 THRU 14 D 150					12 E 101 THRU 12 E 112				
	14 B 101 THRU 14 B 163							12 C 101 THRU 12C 163			12 A 101 THRU 12A 115			14 D101 THRU 14 D154, 16 D101 THRU 16 D109					12 E 101 THRU 12 E 115				
	14B101 THRU 14B168, 18B101 THRU 18 B108							12 C 101 THRU 12C 176			12 A 101 THRU 12A 118			14 D101 THRU 14 D154, 16 D101 THRU 16 D122					12 E 101 THRU 12 E 118				
	14B101 THRU 14B168, 18B101 THRU 18 B112, 20B101 THRU 20 B110							12 C 101 THRU 12C 190			12 A 101 THRU 12A 122			14 D101 THRU 14 D154, 16 D101 THRU 16 D135					12 E 101 THRU 12 E 122				

SLOPE = 4 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 45 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	1.40	5.39	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.60	4.19	12 F 101 THRU 12 F	110	12 G 101 THRU 12 G	110
1.50	1.00	0.22	0.20	1.94	4.96	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.64	3.26	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	1.50	0.22	0.22	1.94	7.79	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.66	6.07	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
2.00	1.00	0.24	0.20	2.48	4.53	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.68	2.33	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
	1.50	0.24	0.22	2.48	7.36	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.70	5.14	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	2.00	0.24	0.24	2.48	10.19	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.72	7.95	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
2.50	1.00	0.28	0.20	3.06	4.18	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.76	1.48	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	1.50	0.28	0.22	3.06	7.01	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.78	4.29	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	2.00	0.28	0.24	3.06	9.84	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.80	7.10	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
	2.50	0.28	0.26	3.06	12.67	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.82	9.91	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
3.00	1.00	0.32	0.20	3.64	3.83	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.84	0.63	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	1.50	0.32	0.22	3.64	6.66	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.86	3.44	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.00	0.32	0.24	3.64	9.48	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.88	6.24	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.50	0.32	0.26	3.64	12.31	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.90	9.05	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
	3.00	0.32	0.28	3.64	15.14	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.92	11.86	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
3.50	1.00	0.36	0.20	4.22	3.47	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.69	0.23	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135
	1.50	0.36	0.22	4.22	6.30	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.94	2.58	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.00	0.36	0.24	4.22	9.13	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.96	5.39	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.50	0.36	0.26	4.22	11.96	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.98	8.20	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	3.00	0.36	0.28	4.22	14.79	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	8.00	11.01	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	3.80	2.99	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	5.00	1.79	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
1.50	1.00	0.22	0.20	5.34	1.56	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	6.90	0.14	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
	1.50	0.22	0.22	5.38	4.35	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	7.10	2.63	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133
2.00	1.00	0.24	0.20	6.88	0.13	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131	7.01	2.07	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
	1.50	0.24	0.22	6.92	2.92	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	9.14	0.70	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
	2.00	0.24	0.24	6.96	5.71	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	9.20	3.47	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
2.50	1.00	0.28	0.20	7.24	1.22	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133	7.24	3.92	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133
	1.50	0.28	0.22	8.50	1.57	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	10.07	1.15	12 F 101 THRU 12 F	147	12 G 101 THRU 12 G	147
	2.00	0.28	0.24	8.54	4.36	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	11.28	1.62	12 F 101 THRU 12 F	153	12 G 101 THRU 12 G	153
	2.50	0.28	0.26	8.58	7.15	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	11.34	4.39	12 F 101 THRU 12 F	154	12 G 101 THRU 12 G	154
3.00	1.00	0.32	0.20	7.47	2.57	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134	7.47	5.77	12 F 101 THRU 12 F	134	12 G 101 THRU 12 G	134
	1.50	0.32	0.22	10.08	0.22	12 F 101 THRU 12 F	147	12 G 101 THRU 12 G	147	10.30	3.00	12 F 101 THRU 12 F	149	12 G 101 THRU 12 G	149
	2.00	0.32	0.24	10.12	3.00	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	13.12	0.24	12 F 101 THRU 12 F	163	12 G 101 THRU 12 G	163
	2.50	0.32	0.26	10.16	5.79	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	13.42	2.53	12 F 101 THRU 12 F	164	12 G 101 THRU 12 G	164
	3.00	0.32	0.28	10.20	8.58	12 F 101 THRU 12 F	148	12 G 101 THRU 12 G	148	13.48	5.30	12 F 101 THRU 12 F	164	12 G 101 THRU 12 G	164
3.50	1.00	0.36	0.20	7.69	3.93	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135	7.69	7.63	12 F 101 THRU 12 F	135	12 G 101 THRU 12 G	135
	1.50	0.36	0.22	10.52	1.14	12 F 101 THRU 12 F	150	12 G 101 THRU 12 G	150	10.52	4.86	12 F 101 THRU 12 F	150	12 G 101 THRU 12 G	150
	2.00	0.36	0.24	11.70	1.65	12 F 101 THRU 12 F	156	12 G 101 THRU 12 G	156	13.35	2.09	12 F 101 THRU 12 F	164	12 G 101 THRU 12 G	164
	2.50	0.36	0.26	11.74	4.44	12 F 101 THRU 12 F	156	12 G 101 THRU 12 G	156	15.50	0.68	12 F 101 THRU 12 F	175	12 G 101 THRU 12 G	175
	3.00	0.36	0.28	11.78	7.23	12 F 101 THRU 12 F	156	12 G 101 THRU 12 G	156	15.56	3.45	12 F 101 THRU 12 F	175	12 G 101 THRU 12 G	175

SLOPE = 4 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 60 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	0.81	4.73	12 F 101 THRU 12 F	103	12 G 101 THRU 12 G	103	1.50	4.04	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106
1.50	1.00	0.22	0.20	1.12	4.51	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.10	3.53	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109
	1.50	0.22	0.22	1.12	6.82	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.11	5.83	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109
2.00	1.00	0.24	0.20	1.43	4.30	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.70	3.03	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
	1.50	0.24	0.22	1.43	6.61	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.71	5.33	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
	2.00	0.24	0.24	1.43	8.92	12 F 101 THRU 12 F	106	12 G 101 THRU 12 G	106	2.73	7.62	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112
2.50	1.00	0.28	0.20	1.77	4.14	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.33	2.58	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	1.50	0.28	0.22	1.77	6.45	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.34	4.88	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	2.00	0.28	0.24	1.77	8.76	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.35	7.18	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
	2.50	0.28	0.26	1.77	11.07	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.36	9.48	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
3.00	1.00	0.32	0.20	2.10	4.00	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.95	2.15	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	1.50	0.32	0.22	2.10	6.31	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.96	4.45	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	2.00	0.32	0.24	2.10	8.62	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.97	6.75	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
	2.50	0.32	0.26	2.10	10.93	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	3.98	9.05	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118
3.50	3.00	0.32	0.28	2.10	13.23	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.00	11.33	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.00	0.36	0.20	2.44	3.84	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.57	1.71	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	1.50	0.36	0.22	2.44	6.15	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.58	4.01	12 F 101 THRU 12 F	121	12 G 101 THRU 12 G	121
	2.00	0.36	0.24	2.44	8.46	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.60	6.30	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
	2.50	0.36	0.26	2.44	10.77	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.61	8.60	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
	3.00	0.36	0.28	2.44	13.08	12 F 101 THRU 12 F	111	12 G 101 THRU 12 G	111	4.62	10.90	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	1.00	0.20	0.20	2.19	3.35	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	2.89	2.65	12 F 101 THRU 12 F	113	12 G 101 THRU 12 G	113
1.50	1.00	0.22	0.20	3.08	2.55	12 F 101 THRU 12 F	114	12 G 101 THRU 12 G	114	4.06	1.57	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
	1.50	0.22	0.22	3.11	4.83	12 F 101 THRU 12 F	114	12 G 101 THRU 12 G	114	4.10	3.84	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119
2.00	1.00	0.24	0.20	3.97	1.76	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	5.24	0.49	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	1.50	0.24	0.22	4.00	4.04	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	5.28	2.76	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
	2.00	0.24	0.24	4.02	6.33	12 F 101 THRU 12 F	119	12 G 101 THRU 12 G	119	5.31	5.04	12 F 101 THRU 12 F	125	12 G 101 THRU 12 G	125
2.50	1.00	0.28	0.20	4.88	1.03	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	5.91	0.53	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128
	1.50	0.28	0.22	4.91	3.31	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.48	1.74	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.00	0.28	0.24	4.93	5.60	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.51	4.02	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
	2.50	0.28	0.26	4.95	7.89	12 F 101 THRU 12 F	123	12 G 101 THRU 12 G	123	6.55	6.29	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
3.00	1.00	0.32	0.20	5.80	0.30	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	6.10	1.54	12 F 101 THRU 12 F	129	12 G 101 THRU 12 G	129
	1.50	0.32	0.22	5.82	2.59	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.68	0.73	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.00	0.32	0.24	5.84	4.88	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.71	3.01	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	2.50	0.32	0.26	5.87	7.16	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.75	5.28	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
3.50	3.00	0.32	0.28	5.89	9.44	12 F 101 THRU 12 F	128	12 G 101 THRU 12 G	128	7.78	7.55	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
	1.00	0.36	0.20	6.28	0.43	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130	6.28	2.56	12 F 101 THRU 12 F	130	12 G 101 THRU 12 G	130
	1.50	0.36	0.22	6.73	1.86	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	8.59	0.29	12 F 101 THRU 12 F	141	12 G 101 THRU 12 G	141
	2.00	0.36	0.24	6.75	4.15	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	8.91	1.99	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
	2.50	0.36	0.26	6.78	6.43	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132	8.95	4.26	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143
	3.00	0.36	0.28	6.80	8.72	12 F 101 THRU 12 F	133	12 G 101 THRU 12 G	133	8.98	6.54	12 F 101 THRU 12 F	143	12 G 101 THRU 12 G	143

STANDARD RCBC INLET & OUTLET
SLOPE = 6 : 1 SKEW = 45 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET																ROW OF GRATE PIPES							
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4									
S	H	W1	W2		L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
1.00	0.70	0.20	0.20	0.24	7.64	5.40	0.90	7.69			1.40	2.60	3.80	5.00	0.20								
1.50	0.70	0.22	0.20	0.26	7.81	5.52	0.92	7.86			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	0.70	0.24	0.20	0.28	7.98	5.64	0.94	8.04			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	0.70	0.28	0.20	0.32	8.32	5.88	0.98	8.38			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	0.70	0.32	0.20	0.36	8.65	6.12	1.02	8.71			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	0.70	0.36	0.20	0.40	8.99	6.36	1.06	9.05			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL				INNER WALL			
VERTICAL BARS			HORIZONTAL BARS		VERTICAL BARS		HORIZONTAL BARS
S	NEAR FACE (N.F.)		FAR FACE (F.F.)		BOTH SIDES		BOTH SIDES
1.00	14 B 101 THRU 14 B 151		12 C 101 THRU 12C 151		12 A 101 THRU 12A 105		14 D 101 THRU 14 D 151
1.50	14 B 101 THRU 14 B 152		12 C 101 THRU 12C 152		12 A 101 THRU 12A 105		14 D 101 THRU 14 D 152
2.00	14 B 101 THRU 14 B 153		12 C 101 THRU 12C 153		12 A 101 THRU 12A 106		14 D 101 THRU 14 D 153
							12 E 101 THRU 12 E 106
2.50	14 B 101 THRU 14 B 155		12 C 101 THRU 12C 155		12 A 101 THRU 12A 106		14 D 101 THRU 14 D 155
							12 E 101 THRU 12 E 106
3.00	14 B 101 THRU 14 B 158		12 C 101 THRU 12C 158		12 A 101 THRU 12A 106		14 D 101 THRU 14 D 158
							12 E 101 THRU 12 E 106
3.50	14 B 101 THRU 14 B 160		12 C 101 THRU 12C 160		12 A 101 THRU 12A 106		14 D 101 THRU 14 D 160
							12 E 101 THRU 12 E 106

STANDARD RCBC INLET & OUTLET
SLOPE = 6 : 1 SKEW = 60 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET																ROW OF GRATE PIPES							
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4									
S	H	W1	W2		L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
1.00	0.70	0.20	0.20	0.24	6.24	5.40	0.90	6.30			1.40	2.60	3.80	5.00	0.20								
1.50	0.70	0.22	0.20	0.26	6.37	5.52	0.92	6.44			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	0.70	0.24	0.20	0.28	6.51	5.64	0.94	6.58			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	0.70	0.28	0.20	0.32	6.79	5.88	0.98	6.86			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	0.70	0.32	0.20	0.36	7.07	6.12	1.02	7.14			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	0.70	0.36	0.20	0.40	7.34	6.36	1.06	7.42			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL				INNER WALL			
VERTICAL BARS				HORIZONTAL BARS			
S	NEAR FACE (N.F.)	FAR FACE (F.F.)	NEAR F. AND FAR F.	VERTICAL BARS BOTH SIDES	HORIZONTAL BARS BOTH SIDES		
1.00	14 B 101 THRU 14 B 141	12 C 101 THRU 12C 142	12 A 101 THRU 12A 105	14 D 101 THRU 14 D 142	12 E 101 THRU 12 E 105		
1.50	14 B 101 THRU 14 B 142	12 C 101 THRU 12C 142	12 A 101 THRU 12A 105	14 D 101 THRU 14 D 142	12 E 101 THRU 12 E 105		
2.00	14 B 101 THRU 14 B 143	12 C 101 THRU 12C 143	12 A 101 THRU 12A 106	14 D 101 THRU 14 D 143	12 E 101 THRU 12 E 106		
2.50	14 B 101 THRU 14 B 145	12 C 101 THRU 12C 145	12 A 101 THRU 12A 106	14 D 101 THRU 14 D 145	12 E 101 THRU 12 E 106		
3.00	14 B 101 THRU 14 B 147	12 C 101 THRU 12C 147	12 A 101 THRU 12A 106	14 D 101 THRU 14 D 147	12 E 101 THRU 12 E 106		
3.50	14 B 101 THRU 14 B 149	12 C 101 THRU 12C 149	12 A 101 THRU 12A 106	14 D 101 THRU 14 D 149	12 E 101 THRU 12 E 106		

STANDARD RCBC INLET & OUTLET
SLOPE = 6 : 1 SKEW = 90 Degrees

DIMENSIONAL SCHEDULE FOR INLET & OUTLET																ROW OF GRATE PIPES							
R.C.B.C.		WALL		BOT. SLAB	COMMON TO CELL						X1				X2	1-CELL		2-CELL		3-CELL		4-CELL	
CELL		EXT	INT		1, 2, 3 & 4						1	2	3	4									
S	H	W1	W2		L1	L2	h1	C	-	-	CELL	CELL	CELL	CELL		NO.	SPACING	NO.	SPACING	NO.	SPACING	NO.	SPACING
1.00	0.70	0.20	0.20	0.24	5.40	5.40	0.90	5.47			1.40	2.60	3.80	5.00	0.20								
1.50	0.70	0.22	0.20	0.26	5.52	5.52	0.92	5.60			1.94	3.64	5.34	7.04	0.20	1	2 @ 0.75	2	4 @ 0.75	3	6 @ 0.75	4	8 @ 0.75
2.00	0.70	0.24	0.20	0.28	5.64	5.64	0.94	5.72			2.48	4.68	6.88	9.08	0.20	1	2 @ 1.00	2	4 @ 1.00	3	6 @ 1.00	4	8 @ 1.00
2.50	0.70	0.28	0.20	0.32	5.88	5.88	0.98	5.96			3.06	5.76	8.46	11.16	0.24	2	3 @ 0.83	4	6 @ 0.83	6	9 @ 0.83	8	12 @ 0.83
3.00	0.70	0.32	0.20	0.36	6.12	6.12	1.02	6.20			3.64	6.84	10.04	13.24	0.24	2	3 @ 1.00	4	6 @ 1.00	6	9 @ 1.00	8	12 @ 1.00
3.50	0.70	0.36	0.20	0.40	6.36	6.36	1.06	6.45			4.22	7.92	11.62	15.32	0.24	3	4 @ 0.875	6	8 @ 0.875	9	12 @ 0.875	12	16 @ 0.875

NUMBER AND SPACING OF VARIABLE BARS

OUTER WALL				INNER WALL			
VERTICAL BARS			HORIZONTAL BARS	VERTICAL BARS		HORIZONTAL BARS	
S	NEAR FACE (N.F.)		FAR FACE (F.F.)	NEAR F. AND FAR F.		BOTH SIDES	
1.00	14 B 101 THRU 14 B 136		12 C 101 THRU 12C 136	12 A 101 THRU 12A 105		14 D 101 THRU 14 D 136	
1.50	14 B 101 THRU 14 B 137		12 C 101 THRU 12C 137	12 A 101 THRU 12A 105		14 D 101 THRU 14 D 137	
2.00	14 B 101 THRU 14 B 137		12 C 101 THRU 12C 138	12 A 101 THRU 12A 106		14 D 101 THRU 14 D 138	
2.50	14 B 101 THRU 14 B 139		12 C 101 THRU 12C 139	12 A 101 THRU 12A 106		14 D 101 THRU 14 D 139	
3.00	14 B 101 THRU 14 B 141		12 C 101 THRU 12C 141	12 A 101 THRU 12A 106		14 D 101 THRU 14 D 141	
3.50	14 B 101 THRU 14 B 142		12 C 101 THRU 12C 142	12 A 101 THRU 12A 106		14 D 101 THRU 14 D 142	

SLOPE = 6 : 1				STANDARD RCBC INLET & OUTLET											
SKEW = 45 Degrees															
APRON VARIABLE BARS															
R.C.B.C. CELL		WALL & TOP SLAB		1 - CELL						2 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	0.70	0.20	0.20	1.40	6.24	12 F 101 THRU 12 F	104	12 G 101 THRU 12 G	104	2.60	5.04	12 F 101 THRU 12 F	110	12 G 101 THRU 12 G	110
1.50	0.70	0.22	0.20	1.94	5.87	12 F 101 THRU 12 F	107	12 G 101 THRU 12 G	107	3.64	4.17	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115
2.00	0.70	0.24	0.20	2.48	5.50	12 F 101 THRU 12 F	109	12 G 101 THRU 12 G	109	4.68	3.30	12 F 101 THRU 12 F	120	12 G 101 THRU 12 G	120
2.50	0.70	0.28	0.20	3.06	5.26	12 F 101 THRU 12 F	112	12 G 101 THRU 12 G	112	5.76	2.56	12 F 101 THRU 12 F	126	12 G 101 THRU 12 G	126
3.00	0.70	0.32	0.20	3.64	5.01	12 F 101 THRU 12 F	115	12 G 101 THRU 12 G	115	6.84	1.81	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131
3.50	0.70	0.36	0.20	4.22	4.77	12 F 101 THRU 12 F	118	12 G 101 THRU 12 G	118	7.92	1.07	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
R.C.B.C. CELL		WALL & TOP SLAB		3 - CELL						4 - CELL					
				DIMENSION		REINFORCEMENT (12 @ 0.20)				DIMENSION		REINFORCEMENT (12 @ 0.20)			
S	H	W1/T2	W2	L3	L4	TOP BARS		BOTTOM BARS		L3	L4	TOP BARS		BOTTOM BARS	
1.00	0.70	0.20	0.20	3.80	3.84	12 F 101 THRU 12 F	116	12 G 101 THRU 12 G	116	5.00	2.64	12 F 101 THRU 12 F	122	12 G 101 THRU 12 G	122
1.50	0.70	0.22	0.20	5.34	2.47	12 F 101 THRU 12 F	124	12 G 101 THRU 12 G	124	7.04	0.77	12 F 101 THRU 12 F	132	12 G 101 THRU 12 G	132
2.00	0.70	0.24	0.20	6.88	1.10	12 F 101 THRU 12 F	131	12 G 101 THRU 12 G	131	7.98	1.10	12 F 101 THRU 12 F	137	12 G 101 THRU 12 G	137
2.50	0.70	0.28	0.20	8.32	0.14	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139	8.32	2.84	12 F 101 THRU 12 F	139	12 G 101 THRU 12 G	139
3.00	0.70	0.32	0.20	8.65	1.39	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140	8.65	4.59	12 F 101 THRU 12 F	140	12 G 101 THRU 12 G	140
3.50	0.70	0.36	0.20	8.99	2.63	12 F 101 THRU 12 F	142	12 G 101 THRU 12 G	142	8.99	6.33	12 F 101 THRU 12 F	142	12 G 101 THRU 12 G	142

R.C.B.C. INLET & OUTLET DETAILS

