COLUMN LOAD COMBOS																
Vertical loads only - columns						4	By hand; 423.23 wind EW, 389.34 NS	W, 389.34 NS	(+) sonth t	to north winds	(experiencing c	ompression), (-)	west to east winds	(experiencing to	(+) south to north winds (experiencing compression), (-) west to east winds (experiencing tension) [superposition]	
Column	Roof L	Floor L	Live Load LLRF	Live Load LLRF Reduced Floor L (kN)	Total Wind Load (kN) Snow Load (kN)		EW Wind (kN)	NS Wind (kN)	(Upliff) (kN)	î						
1A	36.75		0	0	334.215	51.45		0 389.34	34 55 125	125						
1E (prev 1B)	73.5		0	0	279.09	102.9		0 389.34	34 110.25	25						
4A	49	58.8	8 0.93245553	54.82838528	73.5	68.6	424.23	.23	0 -73	73.5						
4B (4C,4D,4E)	86	117.6	5 0.74721360	87,87231883	-147	137,2		0	0	-147						
5A	24.5	117.6	5 0.74721360	87,87231883	36.75	34.3		0	0 36	36.75						
5B	49	235.2	2 0.61622777	144,9367706	73.5	9.89		0	0 -7:	73.5						
6A	12.25	58.8	9 0.93245553	54.82838528	405.855	17.15	424.23	23 389.34	34 18.375	375						
6E	24.5	117.6	5 0,74721360	87,87231883	352.59	34.3	389.34	34 389.34		36.75						
1F hangar	36,75			0	444 465	51.45	389.34	34 389.34	34 55.125	125						
"Assuming no girder in the roof s																
KN				KN	KN						kx = ky	Fy	Ф Ф			
CASES	4				Maximum Load	Min Load						1 350	0 9 2000 1 34	34		
	Prince	Principal Only	With Companion		(Compression Governs) (Tension Governs)	(Tension Governs)										
	1.25D+1.4W 0.9D+1.4W	0.9D+1.4W	1.25D+1.4W+0.5 L	1.25D+1,4W+0.5S	If (+), C is accuring.	If (-), T is occuring.	Soverning	Compression/Tension Governing		2	(Land) 22	(44) ti	shex shery A	aleny A the Fa	-N	
41	661,5867188	607.3547175	5 661 58671875	687.31171875	687.3117188	0	687 3117188 C	2 88 C	₹		4000	108 90,	90.4 30.04 79.30 7420 2330 313	L	1315.8 0.5	
16	752,5429688	651.2342175	5 752 54296875	803.99296875	803.9929688	0	803.9929688 C	2 88t	Ð		4000	203	50.4 37.04 70.37 7420	76.57 7420 2357 315. 1315.8	15.8 0.6	
4A (4F)	311,1238438	173,1471675	5 338 53803639	345,42384375	571,752229	0	571,752229 C	29 C	4A (4F)		4000	103	50.4 37.04 70.37 7420	78.37 74.20 2337 313. 13.1E	1315.8 0.4	
4B (4C,4D,4E)	592,8213438	325,1073675	5 636.75750317	661.42134375	1092.293663	0	1092,293663 C	163 C	4B (4C,4D,4E		4000	108 50	50.4 37.04 79.37 7420	7420 2337 3134 1315	1315.8 0.8	
5A	413.4307188	239.1641175	5 457.36687817	430.58071875	633,439197	0	633,439197 C	97 C	5A		4000	105 49	48.2 37.74 81.30 6260 1971 286.	90 1971 286 1081.3	31.3 0.6	
5B	779,27375	444,0651	1 851.74213528	813,57375000	1173,078906	0	1173,078906 C	00 C	5B		4000	108 50	50.4 37.04 79.37 7420 2337 313.	2327 31% 1315.8	15.8 0.9	
6A	795,750125	709.98525	5 823,16431764	804.32512500	823,1643176	0	823.1643176 C	76 C	₽9		4000	106	42.2 57.74 57.30 6260 1971 296.	30 1071 286 1081.3	31.3 0.8	
6E	938,995375	770.19195	5 982.93153442	956,14537500	982,9315344	0	982.9315344 C	44 C	9					23 233 313 1315 B	15.8 0.7	
11	445.55475	-495.0297	7 -445.55475000	419.82975000	253.87125	495.0297	495.0297 T	7 T	F		4000	108 50	50.4 27.04 78.37 74.50 2337 313.	2337 313 1315.8	IS.8 0.4 Governed by T	