

PROJECT TITLE :

	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P049-2025-MOD-001.mdl

*** PROJECT INFORMATION

Project Name :
Date : 2025/6/20

*** CONTROL DATA

Panel Zone Effect : Do not Calculate
Unit System : KN, M
Definition of Frame
- X Direction of Frame : Braced I Non-sway
- Y Direction of Frame : Braced I Non-sway
- Design Type : 3-D
Design Code
- Steel : AISC(15th)-LRFD16
- Concrete : NSR-10
- SRC : SSRC79

*** LOAD CASE DATA

NO	NAME	TYPE	SELF WEIGHT X	WEIGHT Y	FACTOR Z	DESCRIPTION
1	PP	D	0.000	0.000	-1.000	
4	WX	W	0.000	0.000	0.000	
5	WY	W	0.000	0.000	0.000	
6	EVT	D	0.000	0.000	0.000	

*** MATERIAL PROPERTY DATA

NO	NAME	TYPE	MODULUS OF ELASTICITY	SHEAR MODULUS	THERMAL COEFF.	POISSON RATIO	WEIGHT DENSITY
1	Grade C3500	CONC	2.35e+07	9.793e+06	5e-06	0.2	23.56
2	A500-50	STEEL	1.999e+08	7.69e+07	6.5e-06	0.3	77.09

NO	NAME	TYPE	STEEL	STRENGTH OF CONCRETE	DESIGN MATERIAL MAIN REBAR	SUB REBAR
1	Grade C3500	CONC	-	2.413e+04	4.137e+05	4.137e+05
2	A500-50	STEEL	3.447e+05	-	-	-

*** STORY DATA

Ground Level , 0			
NAME	LEVEL	HEIGHT	FLOOR DIAPHRAGM
Roof	3.500	0.000	Do not consider
2F	1.500	2.000	Do not consider
1F	0.000	1.500	Do not consider
B1	-0.150	0.150	Do not consider

*** NODE DATA

NO	X	Y	Z	TEMPERATURE
1	0	0	0	0
2	2.5	0	0	0
3	0	0	1.5	0
4	2.5	0	1.5	0
5	5	0	0	0
6	5	0	1.5	0
7	7.5	0	0	0
8	7.5	0	1.5	0
14	0	0	1.25	0
15	0	0	1	0
16	0	0	0.75	0
17	0	0	0.5	0
18	0	0	0.25	0
20	0.25	0	0	0
21	0.5	0	0	0
22	0.75	0	0	0
23	1	0	0	0

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24	1.25	0	0	0
25	1.5	0	0	0
26	1.75	0	0	0
27	2	0	0	0
28	2.25	0	0	0
30	2.5	0	0.25	0
31	2.5	0	0.5	0
32	2.5	0	0.75	0
33	2.5	0	1	0
34	2.5	0	1.25	0
36	2.25	0	1.5	0
37	2	0	1.5	0
38	1.75	0	1.5	0
39	1.5	0	1.5	0
40	1.25	0	1.5	0
41	1	0	1.5	0
42	0.75	0	1.5	0
43	0.5	0	1.5	0
44	0.25	0	1.5	0
45	2.25	0	0.25	0
46	2	0	0.25	0
47	1.75	0	0.25	0
48	1.5	0	0.25	0
49	1.25	0	0.25	0
50	1	0	0.25	0
51	0.75	0	0.25	0
52	0.5	0	0.25	0
53	0.25	0	0.25	0
54	2.25	0	0.5	0
55	2	0	0.5	0
56	1.75	0	0.5	0
57	1.5	0	0.5	0
58	1.25	0	0.5	0
59	1	0	0.5	0
60	0.75	0	0.5	0
61	0.5	0	0.5	0
62	0.25	0	0.5	0
63	2.25	0	0.75	0
64	2	0	0.75	0
65	1.75	0	0.75	0
66	1.5	0	0.75	0
67	1.25	0	0.75	0
68	1	0	0.75	0
69	0.75	0	0.75	0
70	0.5	0	0.75	0
71	0.25	0	0.75	0
72	2.25	0	1	0
73	2	0	1	0
74	1.75	0	1	0
75	1.5	0	1	0
76	1.25	0	1	0
77	1	0	1	0
78	0.75	0	1	0
79	0.5	0	1	0
80	0.25	0	1	0
81	2.25	0	1.25	0
82	2	0	1.25	0
83	1.75	0	1.25	0
84	1.5	0	1.25	0
85	1.25	0	1.25	0
86	1	0	1.25	0
87	0.75	0	1.25	0
88	0.5	0	1.25	0
89	0.25	0	1.25	0
97	2.75	0	0	0
98	3	0	0	0
99	3.25	0	0	0
100	3.5	0	0	0
101	3.75	0	0	0
102	4	0	0	0
103	4.25	0	0	0
104	4.5	0	0	0
105	4.75	0	0	0
107	5	0	0.25	0
108	5	0	0.5	0
109	5	0	0.75	0
110	5	0	1	0
111	5	0	1.25	0
113	4.75	0	1.5	0

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114	4.5	0	1.5	0
115	4.25	0	1.5	0
116	4	0	1.5	0
117	3.75	0	1.5	0
118	3.5	0	1.5	0
119	3.25	0	1.5	0
120	3	0	1.5	0
121	2.75	0	1.5	0
122	4.75	0	0.25	0
123	4.5	0	0.25	0
124	4.25	0	0.25	0
125	4	0	0.25	0
126	3.75	0	0.25	0
127	3.5	0	0.25	0
128	3.25	0	0.25	0
129	3	0	0.25	0
130	2.75	0	0.25	0
131	4.75	0	0.5	0
132	4.5	0	0.5	0
133	4.25	0	0.5	0
134	4	0	0.5	0
135	3.75	0	0.5	0
136	3.5	0	0.5	0
137	3.25	0	0.5	0
138	3	0	0.5	0
139	2.75	0	0.5	0
140	4.75	0	0.75	0
141	4.5	0	0.75	0
142	4.25	0	0.75	0
143	4	0	0.75	0
144	3.75	0	0.75	0
145	3.5	0	0.75	0
146	3.25	0	0.75	0
147	3	0	0.75	0
148	2.75	0	0.75	0
149	4.75	0	1	0
150	4.5	0	1	0
151	4.25	0	1	0
152	4	0	1	0
153	3.75	0	1	0
154	3.5	0	1	0
155	3.25	0	1	0
156	3	0	1	0
157	2.75	0	1	0
158	4.75	0	1.25	0
159	4.5	0	1.25	0
160	4.25	0	1.25	0
161	4	0	1.25	0
162	3.75	0	1.25	0
163	3.5	0	1.25	0
164	3.25	0	1.25	0
165	3	0	1.25	0
166	2.75	0	1.25	0
174	5.25	0	0	0
175	5.5	0	0	0
176	5.75	0	0	0
177	6	0	0	0
178	6.25	0	0	0
179	6.5	0	0	0
180	6.75	0	0	0
181	7	0	0	0
182	7.25	0	0	0
184	7.5	0	0.25	0
185	7.5	0	0.5	0
186	7.5	0	0.75	0
187	7.5	0	1	0
188	7.5	0	1.25	0
190	7.25	0	1.5	0
191	7	0	1.5	0
192	6.75	0	1.5	0
193	6.5	0	1.5	0
194	6.25	0	1.5	0
195	6	0	1.5	0
196	5.75	0	1.5	0
197	5.5	0	1.5	0
198	5.25	0	1.5	0
199	7.25	0	0.25	0
200	7	0	0.25	0
201	6.75	0	0.25	0

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202	6.5	0	0.25	0
203	6.25	0	0.25	0
204	6	0	0.25	0
205	5.75	0	0.25	0
206	5.5	0	0.25	0
207	5.25	0	0.25	0
208	7.25	0	0.5	0
209	7	0	0.5	0
210	6.75	0	0.5	0
211	6.5	0	0.5	0
212	6.25	0	0.5	0
213	6	0	0.5	0
214	5.75	0	0.5	0
215	5.5	0	0.5	0
216	5.25	0	0.5	0
217	7.25	0	0.75	0
218	7	0	0.75	0
219	6.75	0	0.75	0
220	6.5	0	0.75	0
221	6.25	0	0.75	0
222	6	0	0.75	0
223	5.75	0	0.75	0
224	5.5	0	0.75	0
225	5.25	0	0.75	0
226	7.25	0	1	0
227	7	0	1	0
228	6.75	0	1	0
229	6.5	0	1	0
230	6.25	0	1	0
231	6	0	1	0
232	5.75	0	1	0
233	5.5	0	1	0
234	5.25	0	1	0
235	7.25	0	1.25	0
236	7	0	1.25	0
237	6.75	0	1.25	0
238	6.5	0	1.25	0
239	6.25	0	1.25	0
240	6	0	1.25	0
241	5.75	0	1.25	0
242	5.5	0	1.25	0
243	5.25	0	1.25	0
244	0.3	0.3	-0.15	0
245	-0.3	0.3	-0.15	0
246	-0.3	-0.3	-0.15	0
247	0.3	-0.3	-0.15	0
248	2.8	0.3	-0.15	0
249	2.2	0.3	-0.15	0
250	2.2	-0.3	-0.15	0
251	2.8	-0.3	-0.15	0
252	5.3	0.3	-0.15	0
253	4.7	0.3	-0.15	0
254	4.7	-0.3	-0.15	0
255	5.3	-0.3	-0.15	0
256	7.8	0.3	-0.15	0
257	7.2	0.3	-0.15	0
258	7.2	-0.3	-0.15	0
259	7.8	-0.3	-0.15	0
260	0	0	3.5	0
261	7.5	0	3.5	0
262	5	0	3.5	0
263	2.5	0	3.5	0

** POINT SPRING SUPPORT

NODE	TRANSLATIONAL DIRECTION			ROTATIONAL DIRECTION		
	SDx	SDy	SDz	SRx	SRy	SRz
244	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
245	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
246	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
247	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
248	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
249	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
250	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
251	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
252	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
253	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000

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254	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
255	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
256	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
257	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
258	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000
259	35.2800	352.9800	3529.8000	0.0000	0.0000	0.0000

*** SECTION PROPERTY DATA

NO	NAME	SHAPE	H	B	tw	tfl	r1
1	PIPE2STD	P	0.0605	0.00391	0	0	0
2	VC-30X30	SB	0.3	0.3	0	0	0
3	V-15X20	SB	0.2	0.15	0	0	0
4	C-15X20	SB	0.15	0.2	0	0	0

NO	NAME	STIFFNESS SCALE FACTOR							Boundary Group
		A	Asy	Asz	Ix	Iy	Iz	W	
1	PIPE2STD								
2	VC-30X30								
3	V-15X20								
4	C-15X20								

NO	NAME	AREA [SRC:EQIV.]	MOMENT OF INERTIA			SHAPE FACTOR		
			Ix	Iy	Iz	k-Y	k-Z	
1	PIPE2STD	0.0006581	5.203e-07	2.61e-07	2.61e-07	0.5279	0.5279	
2	VC-30X30	0.09	0.001139	0.000675	0.000675	0.8333	0.8333	
3	V-15X20	0.03	0.0001215	0.0001	5.625e-05	0.8333	0.8333	
4	C-15X20	0.03	0.0001215	5.625e-05	0.0001	0.8333	0.8333	

NO	NAME	SECTION MODULUS Sy		SECTION MODULUS Sz	
		I or CONC.	J or STEEL	I or CONC.	J or STEEL
1	PIPE2STD	8.652e-06	8.652e-06	8.652e-06	8.652e-06
2	VC-30X30	0.0045	0.0045	0.0045	0.0045
3	V-15X20	0.001	0.001	0.00075	0.00075
4	C-15X20	0.00075	0.00075	0.001	0.001

*** BEAM MEMBER DATA

NO	NODAL CONNECTIVITY		BEAM END RELEASE		MATERIAL	SECTION	LENGTH
	I	J	I	J			
1	1	20	-	-	Grade C3500	VC-30X30	0.25
2	1	18	-	-	Grade C3500	C-15X20	0.25
3	3	44	-	-	Grade C3500	V-15X20	0.25
4	2	97	-	-	Grade C3500	VC-30X30	0.25
5	2	30	-	-	Grade C3500	C-15X20	0.25
6	4	121	-	-	Grade C3500	V-15X20	0.25
7	5	174	-	-	Grade C3500	VC-30X30	0.25
8	5	107	-	-	Grade C3500	C-15X20	0.25
9	6	198	-	-	Grade C3500	V-15X20	0.25
10	7	184	-	-	Grade C3500	C-15X20	0.25
11	3	260	-	-	A500-50	PIPE2STD	2
12	4	263	-	-	A500-50	PIPE2STD	2
13	6	262	-	-	A500-50	PIPE2STD	2
14	8	261	-	-	A500-50	PIPE2STD	2
198	14	3	-	-	Grade C3500	C-15X20	0.25
199	15	14	-	-	Grade C3500	C-15X20	0.25
200	16	15	-	-	Grade C3500	C-15X20	0.25
201	17	16	-	-	Grade C3500	C-15X20	0.25
202	18	17	-	-	Grade C3500	C-15X20	0.25
203	20	21	-	-	Grade C3500	VC-30X30	0.25
204	21	22	-	-	Grade C3500	VC-30X30	0.25
205	22	23	-	-	Grade C3500	VC-30X30	0.25
206	23	24	-	-	Grade C3500	VC-30X30	0.25
207	24	25	-	-	Grade C3500	VC-30X30	0.25
208	25	26	-	-	Grade C3500	VC-30X30	0.25
209	26	27	-	-	Grade C3500	VC-30X30	0.25
210	27	28	-	-	Grade C3500	VC-30X30	0.25
211	28	2	-	-	Grade C3500	VC-30X30	0.25

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212	30	31	-	-	Grade C3500	C-15X20	0.25
213	31	32	-	-	Grade C3500	C-15X20	0.25
214	32	33	-	-	Grade C3500	C-15X20	0.25
215	33	34	-	-	Grade C3500	C-15X20	0.25
216	34	4	-	-	Grade C3500	C-15X20	0.25
217	36	4	-	-	Grade C3500	V-15X20	0.25
218	37	36	-	-	Grade C3500	V-15X20	0.25
219	38	37	-	-	Grade C3500	V-15X20	0.25
220	39	38	-	-	Grade C3500	V-15X20	0.25
221	40	39	-	-	Grade C3500	V-15X20	0.25
222	41	40	-	-	Grade C3500	V-15X20	0.25
223	42	41	-	-	Grade C3500	V-15X20	0.25
224	43	42	-	-	Grade C3500	V-15X20	0.25
225	44	43	-	-	Grade C3500	V-15X20	0.25
226	97	98	-	-	Grade C3500	VC-30X30	0.25
227	98	99	-	-	Grade C3500	VC-30X30	0.25
228	99	100	-	-	Grade C3500	VC-30X30	0.25
229	100	101	-	-	Grade C3500	VC-30X30	0.25
230	101	102	-	-	Grade C3500	VC-30X30	0.25
231	102	103	-	-	Grade C3500	VC-30X30	0.25
232	103	104	-	-	Grade C3500	VC-30X30	0.25
233	104	105	-	-	Grade C3500	VC-30X30	0.25
234	105	5	-	-	Grade C3500	VC-30X30	0.25
235	107	108	-	-	Grade C3500	C-15X20	0.25
236	108	109	-	-	Grade C3500	C-15X20	0.25
237	109	110	-	-	Grade C3500	C-15X20	0.25
238	110	111	-	-	Grade C3500	C-15X20	0.25
239	111	6	-	-	Grade C3500	C-15X20	0.25
240	113	6	-	-	Grade C3500	V-15X20	0.25
241	114	113	-	-	Grade C3500	V-15X20	0.25
242	115	114	-	-	Grade C3500	V-15X20	0.25
243	116	115	-	-	Grade C3500	V-15X20	0.25
244	117	116	-	-	Grade C3500	V-15X20	0.25
245	118	117	-	-	Grade C3500	V-15X20	0.25
246	119	118	-	-	Grade C3500	V-15X20	0.25
247	120	119	-	-	Grade C3500	V-15X20	0.25
248	121	120	-	-	Grade C3500	V-15X20	0.25
249	174	175	-	-	Grade C3500	VC-30X30	0.25
250	175	176	-	-	Grade C3500	VC-30X30	0.25
251	176	177	-	-	Grade C3500	VC-30X30	0.25
252	177	178	-	-	Grade C3500	VC-30X30	0.25
253	178	179	-	-	Grade C3500	VC-30X30	0.25
254	179	180	-	-	Grade C3500	VC-30X30	0.25
255	180	181	-	-	Grade C3500	VC-30X30	0.25
256	181	182	-	-	Grade C3500	VC-30X30	0.25
257	182	7	-	-	Grade C3500	VC-30X30	0.25
258	184	185	-	-	Grade C3500	C-15X20	0.25
259	185	186	-	-	Grade C3500	C-15X20	0.25
260	186	187	-	-	Grade C3500	C-15X20	0.25
261	187	188	-	-	Grade C3500	C-15X20	0.25
262	188	8	-	-	Grade C3500	C-15X20	0.25
263	190	8	-	-	Grade C3500	V-15X20	0.25
264	191	190	-	-	Grade C3500	V-15X20	0.25
265	192	191	-	-	Grade C3500	V-15X20	0.25
266	193	192	-	-	Grade C3500	V-15X20	0.25
267	194	193	-	-	Grade C3500	V-15X20	0.25
268	195	194	-	-	Grade C3500	V-15X20	0.25
269	196	195	-	-	Grade C3500	V-15X20	0.25
270	197	196	-	-	Grade C3500	V-15X20	0.25
271	198	197	-	-	Grade C3500	V-15X20	0.25

*** PLATE MEMBER DATA

NO	NODAL CONNECTIVITY				MATERIAL	THICKNESS	AREA
	1	2	3	4			
18	2	30	45	28	Grade C3500	0.15	0.0625
19	28	45	46	27	Grade C3500	0.15	0.0625
20	27	46	47	26	Grade C3500	0.15	0.0625
21	26	47	48	25	Grade C3500	0.15	0.0625
22	25	48	49	24	Grade C3500	0.15	0.0625
23	24	49	50	23	Grade C3500	0.15	0.0625
24	23	50	51	22	Grade C3500	0.15	0.0625
25	22	51	52	21	Grade C3500	0.15	0.0625
26	21	52	53	20	Grade C3500	0.15	0.0625
27	20	53	18	1	Grade C3500	0.15	0.0625
28	30	31	54	45	Grade C3500	0.15	0.0625
29	45	54	55	46	Grade C3500	0.15	0.0625

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30	46	55	56	47	Grade C3500	0.15	0.0625
31	47	56	57	48	Grade C3500	0.15	0.0625
32	48	57	58	49	Grade C3500	0.15	0.0625
33	49	58	59	50	Grade C3500	0.15	0.0625
34	50	59	60	51	Grade C3500	0.15	0.0625
35	51	60	61	52	Grade C3500	0.15	0.0625
36	52	61	62	53	Grade C3500	0.15	0.0625
37	53	62	17	18	Grade C3500	0.15	0.0625
38	31	32	63	54	Grade C3500	0.15	0.0625
39	54	63	64	55	Grade C3500	0.15	0.0625
40	55	64	65	56	Grade C3500	0.15	0.0625
41	56	65	66	57	Grade C3500	0.15	0.0625
42	57	66	67	58	Grade C3500	0.15	0.0625
43	58	67	68	59	Grade C3500	0.15	0.0625
44	59	68	69	60	Grade C3500	0.15	0.0625
45	60	69	70	61	Grade C3500	0.15	0.0625
46	61	70	71	62	Grade C3500	0.15	0.0625
47	62	71	16	17	Grade C3500	0.15	0.0625
48	32	33	72	63	Grade C3500	0.15	0.0625
49	63	72	73	64	Grade C3500	0.15	0.0625
50	64	73	74	65	Grade C3500	0.15	0.0625
51	65	74	75	66	Grade C3500	0.15	0.0625
52	66	75	76	67	Grade C3500	0.15	0.0625
53	67	76	77	68	Grade C3500	0.15	0.0625
54	68	77	78	69	Grade C3500	0.15	0.0625
55	69	78	79	70	Grade C3500	0.15	0.0625
56	70	79	80	71	Grade C3500	0.15	0.0625
57	71	80	15	16	Grade C3500	0.15	0.0625
58	33	34	81	72	Grade C3500	0.15	0.0625
59	72	81	82	73	Grade C3500	0.15	0.0625
60	73	82	83	74	Grade C3500	0.15	0.0625
61	74	83	84	75	Grade C3500	0.15	0.0625
62	75	84	85	76	Grade C3500	0.15	0.0625
63	76	85	86	77	Grade C3500	0.15	0.0625
64	77	86	87	78	Grade C3500	0.15	0.0625
65	78	87	88	79	Grade C3500	0.15	0.0625
66	79	88	89	80	Grade C3500	0.15	0.0625
67	80	89	14	15	Grade C3500	0.15	0.0625
68	34	4	36	81	Grade C3500	0.15	0.0625
69	81	36	37	82	Grade C3500	0.15	0.0625
70	82	37	38	83	Grade C3500	0.15	0.0625
71	83	38	39	84	Grade C3500	0.15	0.0625
72	84	39	40	85	Grade C3500	0.15	0.0625
73	85	40	41	86	Grade C3500	0.15	0.0625
74	86	41	42	87	Grade C3500	0.15	0.0625
75	87	42	43	88	Grade C3500	0.15	0.0625
76	88	43	44	89	Grade C3500	0.15	0.0625
77	89	44	3	14	Grade C3500	0.15	0.0625
78	5	107	122	105	Grade C3500	0.15	0.0625
79	105	122	123	104	Grade C3500	0.15	0.0625
80	104	123	124	103	Grade C3500	0.15	0.0625
81	103	124	125	102	Grade C3500	0.15	0.0625
82	102	125	126	101	Grade C3500	0.15	0.0625
83	101	126	127	100	Grade C3500	0.15	0.0625
84	100	127	128	99	Grade C3500	0.15	0.0625
85	99	128	129	98	Grade C3500	0.15	0.0625
86	98	129	130	97	Grade C3500	0.15	0.0625
87	97	130	30	2	Grade C3500	0.15	0.0625
88	107	108	131	122	Grade C3500	0.15	0.0625
89	122	131	132	123	Grade C3500	0.15	0.0625
90	123	132	133	124	Grade C3500	0.15	0.0625
91	124	133	134	125	Grade C3500	0.15	0.0625
92	125	134	135	126	Grade C3500	0.15	0.0625
93	126	135	136	127	Grade C3500	0.15	0.0625
94	127	136	137	128	Grade C3500	0.15	0.0625
95	128	137	138	129	Grade C3500	0.15	0.0625
96	129	138	139	130	Grade C3500	0.15	0.0625
97	130	139	31	30	Grade C3500	0.15	0.0625
98	108	109	140	131	Grade C3500	0.15	0.0625
99	131	140	141	132	Grade C3500	0.15	0.0625
100	132	141	142	133	Grade C3500	0.15	0.0625
101	133	142	143	134	Grade C3500	0.15	0.0625
102	134	143	144	135	Grade C3500	0.15	0.0625
103	135	144	145	136	Grade C3500	0.15	0.0625
104	136	145	146	137	Grade C3500	0.15	0.0625
105	137	146	147	138	Grade C3500	0.15	0.0625
106	138	147	148	139	Grade C3500	0.15	0.0625
107	139	148	32	31	Grade C3500	0.15	0.0625
108	109	110	149	140	Grade C3500	0.15	0.0625

PROJECT TITLE :

	Company					Client	
	Author	Ing. Osvaldo Guzman Avila				File Name	P049-2025-MOD-001.mdl
109	140	149	150	141	Grade C3500	0.15	0.0625
110	141	150	151	142	Grade C3500	0.15	0.0625
111	142	151	152	143	Grade C3500	0.15	0.0625
112	143	152	153	144	Grade C3500	0.15	0.0625
113	144	153	154	145	Grade C3500	0.15	0.0625
114	145	154	155	146	Grade C3500	0.15	0.0625
115	146	155	156	147	Grade C3500	0.15	0.0625
116	147	156	157	148	Grade C3500	0.15	0.0625
117	148	157	33	32	Grade C3500	0.15	0.0625
118	110	111	158	149	Grade C3500	0.15	0.0625
119	149	158	159	150	Grade C3500	0.15	0.0625
120	150	159	160	151	Grade C3500	0.15	0.0625
121	151	160	161	152	Grade C3500	0.15	0.0625
122	152	161	162	153	Grade C3500	0.15	0.0625
123	153	162	163	154	Grade C3500	0.15	0.0625
124	154	163	164	155	Grade C3500	0.15	0.0625
125	155	164	165	156	Grade C3500	0.15	0.0625
126	156	165	166	157	Grade C3500	0.15	0.0625
127	157	166	34	33	Grade C3500	0.15	0.0625
128	111	6	113	158	Grade C3500	0.15	0.0625
129	158	113	114	159	Grade C3500	0.15	0.0625
130	159	114	115	160	Grade C3500	0.15	0.0625
131	160	115	116	161	Grade C3500	0.15	0.0625
132	161	116	117	162	Grade C3500	0.15	0.0625
133	162	117	118	163	Grade C3500	0.15	0.0625
134	163	118	119	164	Grade C3500	0.15	0.0625
135	164	119	120	165	Grade C3500	0.15	0.0625
136	165	120	121	166	Grade C3500	0.15	0.0625
137	166	121	4	34	Grade C3500	0.15	0.0625
138	7	184	199	182	Grade C3500	0.15	0.0625
139	182	199	200	181	Grade C3500	0.15	0.0625
140	181	200	201	180	Grade C3500	0.15	0.0625
141	180	201	202	179	Grade C3500	0.15	0.0625
142	179	202	203	178	Grade C3500	0.15	0.0625
143	178	203	204	177	Grade C3500	0.15	0.0625
144	177	204	205	176	Grade C3500	0.15	0.0625
145	176	205	206	175	Grade C3500	0.15	0.0625
146	175	206	207	174	Grade C3500	0.15	0.0625
147	174	207	107	5	Grade C3500	0.15	0.0625
148	184	185	208	199	Grade C3500	0.15	0.0625
149	199	208	209	200	Grade C3500	0.15	0.0625
150	200	209	210	201	Grade C3500	0.15	0.0625
151	201	210	211	202	Grade C3500	0.15	0.0625
152	202	211	212	203	Grade C3500	0.15	0.0625
153	203	212	213	204	Grade C3500	0.15	0.0625
154	204	213	214	205	Grade C3500	0.15	0.0625
155	205	214	215	206	Grade C3500	0.15	0.0625
156	206	215	216	207	Grade C3500	0.15	0.0625
157	207	216	108	107	Grade C3500	0.15	0.0625
158	185	186	217	208	Grade C3500	0.15	0.0625
159	208	217	218	209	Grade C3500	0.15	0.0625
160	209	218	219	210	Grade C3500	0.15	0.0625
161	210	219	220	211	Grade C3500	0.15	0.0625
162	211	220	221	212	Grade C3500	0.15	0.0625
163	212	221	222	213	Grade C3500	0.15	0.0625
164	213	222	223	214	Grade C3500	0.15	0.0625
165	214	223	224	215	Grade C3500	0.15	0.0625
166	215	224	225	216	Grade C3500	0.15	0.0625
167	216	225	109	108	Grade C3500	0.15	0.0625
168	186	187	226	217	Grade C3500	0.15	0.0625
169	217	226	227	218	Grade C3500	0.15	0.0625
170	218	227	228	219	Grade C3500	0.15	0.0625
171	219	228	229	220	Grade C3500	0.15	0.0625
172	220	229	230	221	Grade C3500	0.15	0.0625
173	221	230	231	222	Grade C3500	0.15	0.0625
174	222	231	232	223	Grade C3500	0.15	0.0625
175	223	232	233	224	Grade C3500	0.15	0.0625
176	224	233	234	225	Grade C3500	0.15	0.0625
177	225	234	110	109	Grade C3500	0.15	0.0625
178	187	188	235	226	Grade C3500	0.15	0.0625
179	226	235	236	227	Grade C3500	0.15	0.0625
180	227	236	237	228	Grade C3500	0.15	0.0625
181	228	237	238	229	Grade C3500	0.15	0.0625
182	229	238	239	230	Grade C3500	0.15	0.0625
183	230	239	240	231	Grade C3500	0.15	0.0625
184	231	240	241	232	Grade C3500	0.15	0.0625
185	232	241	242	233	Grade C3500	0.15	0.0625
186	233	242	243	234	Grade C3500	0.15	0.0625
187	234	243	111	110	Grade C3500	0.15	0.0625

PROJECT TITLE :

	Company			Client		
	Author	Ing. Osvaldo Guzman Avila		File Name	P049-2025-MOD-001.mdl	

188	188	8	190	235	Grade C3500	0.15	0.0625
189	235	190	191	236	Grade C3500	0.15	0.0625
190	236	191	192	237	Grade C3500	0.15	0.0625
191	237	192	193	238	Grade C3500	0.15	0.0625
192	238	193	194	239	Grade C3500	0.15	0.0625
193	239	194	195	240	Grade C3500	0.15	0.0625
194	240	195	196	241	Grade C3500	0.15	0.0625
195	241	196	197	242	Grade C3500	0.15	0.0625
196	242	197	198	243	Grade C3500	0.15	0.0625
197	243	198	6	111	Grade C3500	0.15	0.0625
288	245	246	247	244	Grade C3500	0.3	0.36
289	249	250	251	248	Grade C3500	0.3	0.36
290	253	254	255	252	Grade C3500	0.3	0.36
291	257	258	259	256	Grade C3500	0.3	0.36

*** TOTAL WEIGHT / VOLUME / SURFACE AREA SUMMARY

SECTION NO	SECTION NAME	SURFACE AREA	VOLUME	WEIGHT	FRAME NUMBER	TRUSS NUMBER
1	PIPE2STD	2.842	0.005265	0.4058	4	0
2	VC-30X30	9	0.675	15.91	30	0
3	V-15X20	5.25	0.225	5.302	30	0
4	C-15X20	4.2	0.18	4.241	24	0

*** LOAD DATA

; Self Weight, Nodal Load, Specified Displacement, Beam Load, Floor Load, Finishing Material Load,
System Temperature, Nodal Temperature, Element Temperature, Beam Section Temperature,
Wind Load, Static Seismic Load, Time History Analysis Data

[LOAD CASE : PP]

** SELF WEIGHT DATA

; X=0, Y=0, Z=-1

[LOAD CASE : WX]

** WIND LOAD DATA : CODE , NSR-10

WIND LOADS BASED ON NSR-10 [UNIT: kN, m]

Design Wind Loads	: F = p * Area
Design Wind Pressure	: p = qz * G * Cp1 - qh * G * Cp2
Velocity Pressure at Design Height z [N/m^2]	: qz = 0.613 * Kz * Kzt * Kd * V^2 * I
Velocity Pressure at Mean Roof Height [N/m^2]	: qh = 0.613 * Kh * Kht * Kd * V^2 * I
Calculated Value of qh for X-dir [N/m^2]	: qh = 929.63
Calculated Value of qh for Y-dir [N/m^2]	: qh = 929.63

Basic Wind Speed [km/h]	: V = 125.00
Directional Factor for X-dir Wind Loads	: Kdx = 0.85
Directional Factor for Y-dir Wind Loads	: Kdy = 0.85
Importance Factor	: I = 1.15
Exposure Category	: C
Mean Roof Height	: H = 3.20
Gradient Height [m]	: Zg = 274.32
Force Coefficient	: Alpha = 9.50
Kz at Mean Roof Height (Kh)	: Kh = 0.85

Structural Rigidity	: Rigid Structure
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Gust effect Factor for X-dir Wind Loads	: Gx = 0.85
Gust effect Factor for Y-dir Wind Loads	: Gy = 0.85

Topographic Effects for X-dir Wind Loads	: Not Included
Topographic Effects for Y-dir Wind Loads	: Not Included
Accidental Eccentricity for X-direction	: Wx = None
Accidental Eccentricity for Y-direction	: Wy = None
Scale Factor for X-directional Wind Loads	: SFx = 1.00
Scale Factor for Y-directional Wind Loads	: SFy = 0.00

PROJECT TITLE :

	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P049-2025-MOD-001.mdl

Wind force of the specific story is calculated as the sum of the forces of the following two parts.

1. Part I : Lower half part of the specific story
2. Part II : Upper half part of the just below story of the specific story

The reference height for the calculation of the wind pressure related factors are, therefore, considered separately for the above mentioned two parts as follows.

Reference height for the wind pressure related factors(except topographic related factors)

1. Part I : top level of the specific story
2. Part II : top level of the just below story of the specific story

Reference height for the topographic related factors :

1. Part I : bottom level of the specific story
 2. Part II : bottom level of the just below story of the specific story
-

** External Pressure Coefficients at Windward and Leeward Walls (Cp1, Cp2)

STORY NAME	Cp1 (Windward)	Cp2 (X-DIR) (Leeward)	Cp2 (Y-DIR) (Leeward)
Roof	0.800	0.000	-0.500
2F	0.800	0.000	-0.500
1F	0.800	0.000	-0.500
B1	0.000	0.000	0.000

** Velocity Exposure Coefficients at Design Height (Kz)

** Topographic Factors at Windward and Leeward Walls (Kzt)

** Velocity Pressure at Design Height (qz) [Current Unit]

STORY NAME	Kz	Kzt (X-DIR) (Windward)	Kzt (Y-DIR) (Windward)	Kzt (X-DIR) (Leeward)	Kzt (Y-DIR) (Leeward)	qz (X-DIR)	qz (Y-DIR)
Roof	0.849	1.000	1.000	1.000	1.000	0.930	0.930
2F	0.849	1.000	1.000	1.000	1.000	0.930	0.930
1F	0.849	1.000	1.000	1.000	1.000	0.930	0.930
B1	0.000	0.000	0.000	0.000	0.000	0.000	0.000

W I N D L O A D G E N E R A T I O N D A T A X - D I R E C T I O N

STORY NAME	PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND FORCE	ADDED FORCE	STORY FORCE	STORY SHEAR	OVERTURN`G MOMENT
Roof	0.632151	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2F	0.632151	1.5	1.75	0.0	0.0	0.0	0.0	0.0	0.0
G.L.	0.632151	0.0	0.75	0.0	0.0	0.0	--	0.0	0.0

W I N D L O A D G E N E R A T I O N D A T A Y - D I R E C T I O N

STORY NAME	PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND FORCE	ADDED FORCE	STORY FORCE	STORY SHEAR	OVERTURN`G MOMENT
Roof	1.027246	3.5	1.0	7.5	7.7043449	0.0	0.0	0.0	0.0
2F	1.027246	1.5	1.75	7.5	13.482604	0.0	0.0	0.0	0.0
G.L.	1.027246	0.0	0.75	7.5	5.7782587	0.0	--	0.0	0.0

W I N D L O A D G E N E R A T I O N D A T A R Z - D I R E C T I O N

STORY NAME	TORSIONAL PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND TORSION	ADDED TORSION	STORY TORSION	ACCUMULATED TORSION
Roof	0.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0
2F	0.0	1.5	1.75	0.0	0.0	0.0	0.0	0.0
G.L.	0.0	0.0	0.75	0.0	0.0	0.0	--	0.0

=====

ECCENTRICITY RELATED DATA

PROJECT TITLE :

	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P049-2025-MOD-001.mdl

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STORY NAME	STORY FORCE (X)	STORY FORCE (Y)	ACCIDENTAL ECCENT. (X)	ACCIDENTAL ECCENT. (Y)	ACCIDENTAL TORSION (X)	ACCIDENTAL TORSION (Y)
Roof	0.0	0.0	0.0	0.0	0.0	0.0
2F	0.0	0.0	0.0	0.0	0.0	0.0
G.L.	--	--	0.0	0.0	--	--

[LOAD CASE : WY]

** WIND LOAD DATA : CODE , NSR-10

WIND LOADS BASED ON NSR-10 [UNIT: kN, m]

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Design Wind Loads          : F = p * Area
Design Wind Pressure       : p = qz * G * Cp1 - qh * G * Cp2
Velocity Pressure at Design Height z [N/m^2] : qz = 0.613 * Kz * Kzt * Kd * V^2 * I
Velocity Pressure at Mean Roof Height [N/m^2] : qh = 0.613 * Kh * Kht * Kd * V^2 * I
Calculated Value of qh for X-dir [N/m^2]      : qh = 929.63
Calculated Value of qh for Y-dir [N/m^2]      : qh = 929.63

Basic Wind Speed [km/h]    : V = 125.00
Directional Factor for X-dir Wind Loads : Kdx = 0.85
Directional Factor for Y-dir Wind Loads : Kdy = 0.85
Importance Factor         : I = 1.15
Exposure Category         : C
Mean Roof Height          : H = 3.20
Gradient Height [m]       : Zg = 274.32
Force Coefficient         : Alpha = 9.50
Kz at Mean Roof Height (Kh) : Kh = 0.85

Structural Rigidity       : Rigid Structure

Gust effect Factor for X-dir Wind Loads : Gx = 0.91
Gust effect Factor for Y-dir Wind Loads : Gy = 0.90

Topographic Effects for X-dir Wind Loads : Not Included
Topographic Effects for Y-dir Wind Loads : Not Included
Accidental Eccentricity for X-direction : Wx = None
Accidental Eccentricity for Y-direction : Wy = None
Scale Factor for X-directional Wind Loads : SFx = 0.00
Scale Factor for Y-directional Wind Loads : SFy = 1.00

```

Wind force of the specific story is calculated as the sum of the forces of the following two parts.

1. Part I : Lower half part of the specific story
2. Part II : Upper half part of the just below story of the specific story

The reference height for the calculation of the wind pressure related factors are, therefore, considered separately for the above mentioned two parts as follows.

Reference height for the wind pressure related factors(except topographic related factors)

1. Part I : top level of the specific story
2. Part II : top level of the just below story of the specific story

Reference height for the topographic related factors :

1. Part I : bottom level of the specific story
2. Part II : bottom level of the just below story of the specific story

** External Pressure Coefficients at Windward and Leeward Walls (Cp1, Cp2)

STORY NAME	Cp1 (Windward)	Cp2 (X-DIR) (Leeward)	Cp2 (Y-DIR) (Leeward)
Roof	0.800	0.000	-0.500
2F	0.800	0.000	-0.500
1F	0.800	0.000	-0.500
B1	0.000	0.000	0.000

PROJECT TITLE :

	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P049-2025-MOD-001.mdl

** Velocity Exposure Coefficients at Design Height (Kz)
 ** Topographic Factors at Windward and Leeward Walls (Kzt)
 ** Velocity Pressure at Design Height (qz) [Current Unit]

STORY NAME	Kz	Kzt(X-DIR) (Windward)	Kzt(Y-DIR) (Windward)	Kzt(X-DIR) (Leeward)	Kzt(Y-DIR) (Leeward)	qz (X-DIR)	qz (Y-DIR)
Roof	0.849	1.000	1.000	1.000	1.000	0.930	0.930
2F	0.849	1.000	1.000	1.000	1.000	0.930	0.930
1F	0.849	1.000	1.000	1.000	1.000	0.930	0.930
B1	0.000	0.000	0.000	0.000	0.000	0.000	0.000

WIND LOAD GENERATION DATA X - DIRECTION

STORY NAME	PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND FORCE	ADDED FORCE	STORY FORCE	STORY SHEAR	OVERTURN`G MOMENT
Roof	0.674693	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2F	0.674693	1.5	1.75	0.0	0.0	0.0	0.0	0.0	0.0
G.L.	0.674693	0.0	0.75	0.0	0.0	0.0	--	0.0	0.0

WIND LOAD GENERATION DATA Y - DIRECTION

STORY NAME	PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND FORCE	ADDED FORCE	STORY FORCE	STORY SHEAR	OVERTURN`G MOMENT
Roof	1.082452	3.5	1.0	7.5	8.1183935	0.0	8.1183935	0.0	0.0
2F	1.082452	1.5	1.75	7.5	14.207189	0.0	14.207189	8.1183935	16.236787
G.L.	1.082452	0.0	0.75	7.5	6.0887951	0.0	--	22.325582	49.72516

WIND LOAD GENERATION DATA RZ - DIRECTION

STORY NAME	TORSIONAL PRESSURE	ELEV.	LOADED HEIGHT	LOADED BREADTH	WIND TORSION	ADDED TORSION	STORY TORSION	ACCUMULATED TORSION
Roof	0.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0
2F	0.0	1.5	1.75	0.0	0.0	0.0	0.0	0.0
G.L.	0.0	0.0	0.75	0.0	0.0	0.0	--	0.0

=====

ECCENTRICITY RELATED DATA

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STORY NAME	STORY FORCE (X)	STORY FORCE (Y)	ACCIDENTAL ECCENT. (X)	ACCIDENTAL ECCENT. (Y)	ACCIDENTAL TORSION (X)	ACCIDENTAL TORSION (Y)
Roof	0.0	8.1183935	0.0	0.0	0.0	0.0
2F	0.0	14.207189	0.0	0.0	0.0	0.0
G.L.	--	--	0.0	0.0	--	--

*** LOAD COMBINATION DATA

** GENERAL

NO	NAME	TYPE	ACTIVE	DESCRIPTION
1	gLCB1	Add	ACTIVE	1.4D
2	gLCB2	Add	ACTIVE	1.2D + 1.0WX
3	gLCB3	Add	ACTIVE	1.2D + 1.0WY
4	gLCB4	Add	ACTIVE	1.2D - 1.0WX
5	gLCB5	Add	ACTIVE	1.2D - 1.0WY
6	gLCB6	Add	ACTIVE	0.9D + 1.0WX
7	gLCB7	Add	ACTIVE	0.9D + 1.0WY
8	gLCB8	Add	ACTIVE	0.9D - 1.0WX
9	gLCB9	Add	ACTIVE	0.9D - 1.0WY
10	gLCB10	Add	ACTIVE	(D)
11	gLCB11	Add	ACTIVE	(D) + 1.0WX
12	gLCB12	Add	ACTIVE	(D) + 1.0WY
13	gLCB13	Add	ACTIVE	(D) - 1.0WX
14	gLCB14	Add	ACTIVE	(D) - 1.0WY
15	gLCB15	Add	ACTIVE	(D) + 0.75 (1.0) WX

PROJECT TITLE :

	Company		Client	
	Author	Ing. Osvaldo Guzman Avila	File Name	P049-2025-MOD-001.mdl

16	gLCB16	Add	ACTIVE	(D) + 0.75 (1.0) WY
17	gLCB17	Add	ACTIVE	(D) - 0.75 (1.0) WX
18	gLCB18	Add	ACTIVE	(D) - 0.75 (1.0) WY
19	gLCB19	Add	ACTIVE	0.6D + 1.0WX
20	gLCB20	Add	ACTIVE	0.6D + 1.0WY
21	gLCB21	Add	ACTIVE	0.6D - 1.0WX
22	gLCB22	Add	ACTIVE	0.6D - 1.0WY
23	RC ENV_STR	Envelope	ACTIVE	Concrete Strength Envelope
24	RC ENV_SER	Envelope	ACTIVE	Concrete Serviceability Envelope

** STEEL DESIGN

NO	NAME	TYPE	ACTIVE	DESCRIPTION
1	sLCB1	Add	ACTIVE	1.4D
2	sLCB2	Add	ACTIVE	1.2D + 1.0WX
3	sLCB3	Add	ACTIVE	1.2D + 1.0WY
4	sLCB4	Add	ACTIVE	1.2D - 1.0WX
5	sLCB5	Add	ACTIVE	1.2D - 1.0WY
6	sLCB6	Add	ACTIVE	0.9D + 1.0WX
7	sLCB7	Add	ACTIVE	0.9D + 1.0WY
8	sLCB8	Add	ACTIVE	0.9D - 1.0WX
9	sLCB9	Add	ACTIVE	0.9D - 1.0WY
10	sLCB10	Add	ACTIVE	0.9D
11	sLCB11	Add	SERVICE	SERV : (D)
12	sLCB12	Add	SERVICE	SERV : (D) + 0.6WX
13	sLCB13	Add	SERVICE	SERV : (D) + 0.6WY
14	sLCB14	Add	SERVICE	SERV : (D) - 0.6WX
15	sLCB15	Add	SERVICE	SERV : (D) - 0.6WY
16	sLCB16	Add	SERVICE	SERV : (D) + 0.75 (0.6) WX
17	sLCB17	Add	SERVICE	SERV : (D) + 0.75 (0.6) WY
18	sLCB18	Add	SERVICE	SERV : (D) - 0.75 (0.6) WX
19	sLCB19	Add	SERVICE	SERV : (D) - 0.75 (0.6) WY
20	sLCB20	Add	SERVICE	SERV : 0.6D + 0.6WX
21	sLCB21	Add	SERVICE	SERV : 0.6D + 0.6WY
22	sLCB22	Add	SERVICE	SERV : 0.6D - 0.6WX
23	sLCB23	Add	SERVICE	SERV : 0.6D - 0.6WY
24	sLCB24	Add	SERVICE	SERV : 0.6 (D)

** CONCRETE DESIGN

NO	NAME	TYPE	ACTIVE	DESCRIPTION
1	cLCB1	Add	STRENGTH	1.4D
2	cLCB2	Add	STRENGTH	1.2D + 1.0WX
3	cLCB3	Add	STRENGTH	1.2D + 1.0WY
4	cLCB4	Add	STRENGTH	1.2D - 1.0WX
5	cLCB5	Add	STRENGTH	1.2D - 1.0WY
6	cLCB6	Add	STRENGTH	0.9D + 1.0WX
7	cLCB7	Add	STRENGTH	0.9D + 1.0WY
8	cLCB8	Add	STRENGTH	0.9D - 1.0WX
9	cLCB9	Add	STRENGTH	0.9D - 1.0WY
10	cLCB10	Add	SERVICE	SERV : (D)
11	cLCB11	Add	SERVICE	SERV : (D) + 1.0WX
12	cLCB12	Add	SERVICE	SERV : (D) + 1.0WY
13	cLCB13	Add	SERVICE	SERV : (D) - 1.0WX
14	cLCB14	Add	SERVICE	SERV : (D) - 1.0WY
15	cLCB15	Add	SERVICE	SERV : (D) + 0.75 (1.0) WX
16	cLCB16	Add	SERVICE	SERV : (D) + 0.75 (1.0) WY
17	cLCB17	Add	SERVICE	SERV : (D) - 0.75 (1.0) WX
18	cLCB18	Add	SERVICE	SERV : (D) - 0.75 (1.0) WY
19	cLCB19	Add	SERVICE	SERV : 0.6D + 1.0WX
20	cLCB20	Add	SERVICE	SERV : 0.6D + 1.0WY
21	cLCB21	Add	SERVICE	SERV : 0.6D - 1.0WX
22	cLCB22	Add	SERVICE	SERV : 0.6D - 1.0WY