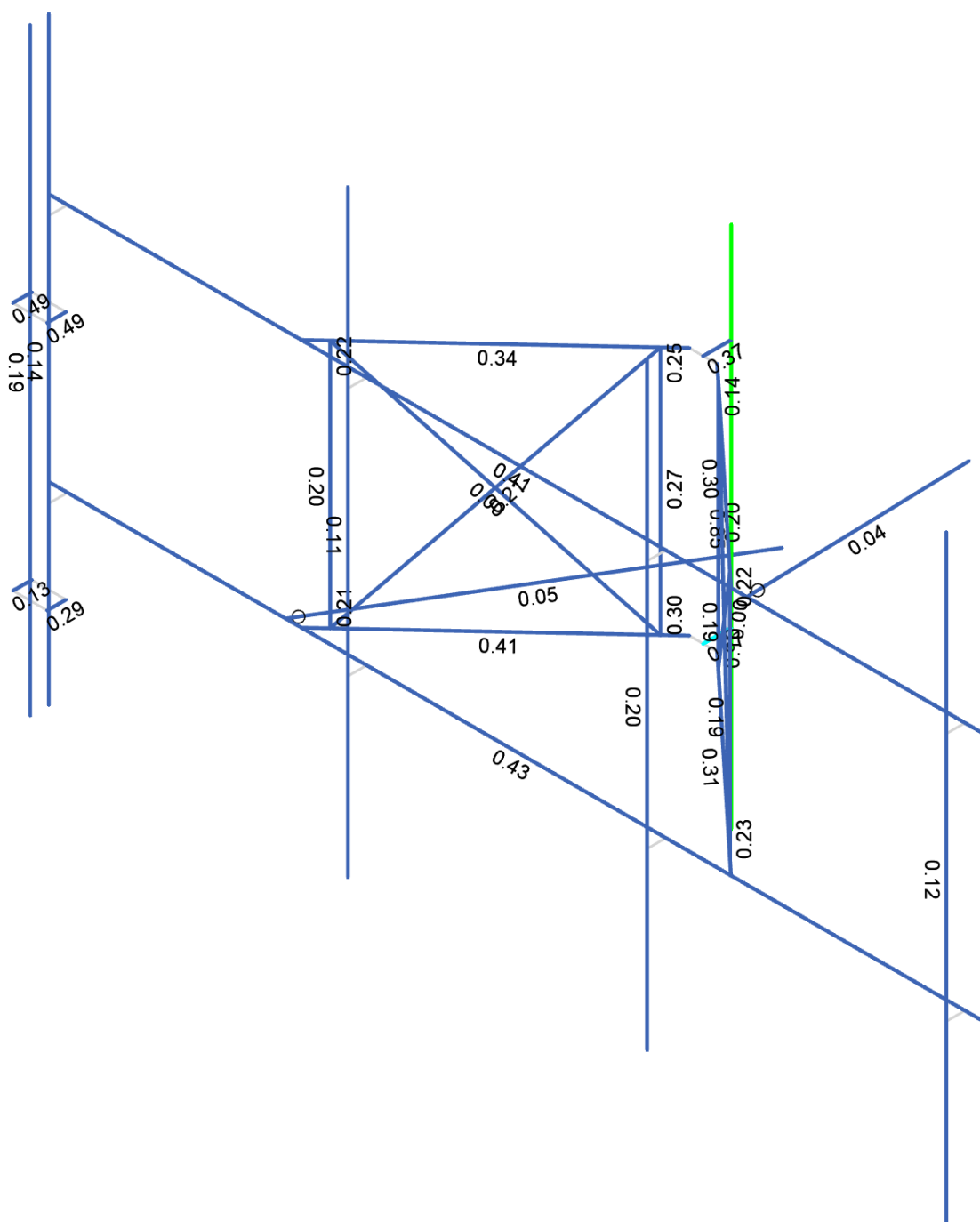
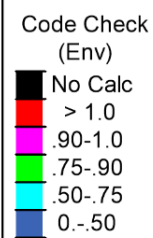
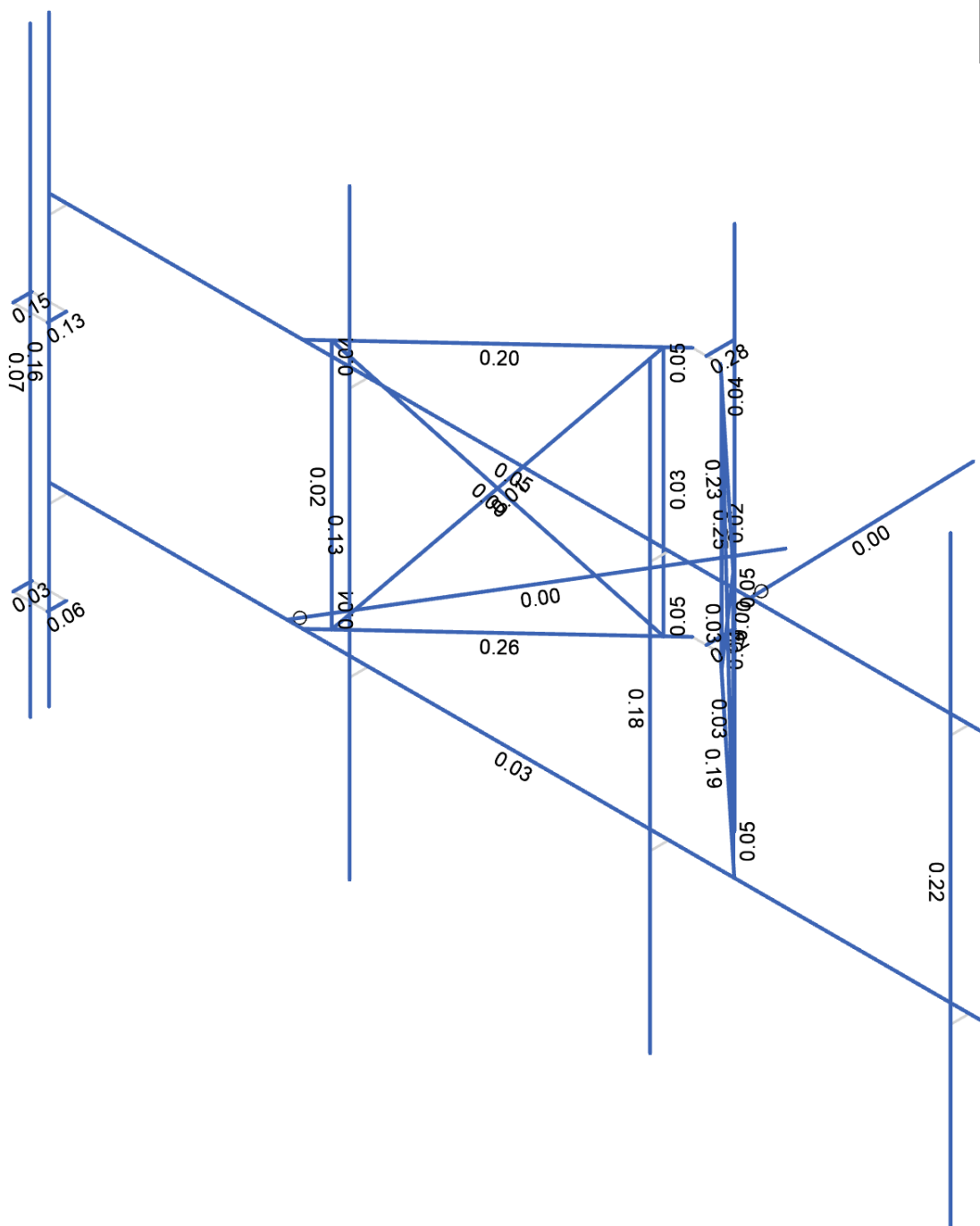
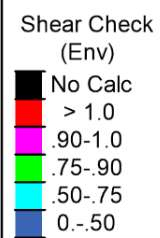




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Project No. 10274519

5000270666-VZW_MT_LOT...



Project No. 10274519

5000270666-VZW_MT_LOT...



Company : Paul J. Ford
 Designer : MTB
 Job Number : Project No. 10274519
 Model Name : 5000270666-VZW_MT_LOT_Sec...

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Model Settings

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in ²)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	12
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

Global Axis corresponding to vertical direction	Y
Convert Existing Data	Yes
Default Global Plane for z-axis	XZ
Plate Local Axis Orientation	Nodal

Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	None
Cold Formed Steel	None
Stiffness Adjustment	Yes (Iterative)
Wood	None
Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	None
Stiffness Adjustment	Yes (Iterative)

Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	Yes
List forces which were ignored for design in the Detail Report	Yes

Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

Code	ASCE 7-10
Risk Category	I or II
Drift Cat	Other



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Model Settings (Continued)

Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
S_i (g)	1
SD_1 (g)	1
SD_s (g)	1
T_L (sec)	5
T Z (sec)	
T X (sec)	
C.Z	0.02
C.X	0.02
C.Exp. Z	0.75
C.Exp. X	0.75
R Z	3
R X	3
$\Omega_0 Z$	1
$\Omega_0 X$	1
$C_r Z$	4
$C_r X$	4
ρZ	1
ρX	1



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General Section Sets

	Label	Shape	Type	Material	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	GEN1A	RE4X4	Beam	gen_Conc3NW	16	21.333	21.333	31.573
2	RIGID		None	RIGID	1e+6	1e+6	1e+6	1e+6

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	HR1A	W10X33	Beam	None	A992	Typical	9.71	36.6	171	0.583

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁻⁶ F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁻⁶ F ⁻¹]	Density [k/ft ³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N36A	N4	90	PL1/2X8	None	None	A36 Gr.36	Typical
2	M3	N6	N8	90	L3X3X3	None	None	A36 Gr.36	Typical
3	M19	N23	N79		PIPE 2.0	None	None	A36 Gr.36	Typical
4	M11	N16A	N9		L3X3X3	None	None	A36 Gr.36	Typical
5	M12	N20	N21	46.848	PL3/16x3	None	None	A36 Gr.36	Typical
6	M13	N18	N22	46.385	PL3/16x3	None	None	A36 Gr.36	Typical
7	M14A	N18	N19		PL3/16x2.125	None	None	A36 Gr.36	Typical
8	M15	N20	N17A		PL3/16x2.125	None	None	A36 Gr.36	Typical
9	M16A	N21	N23B	46.848	L3X2X3	None	None	A36 Gr.36	Typical
10	M17	N24B	N22	136.385	L3X2X3	None	None	A36 Gr.36	Typical
11	M18	N23B	N19	46.848	PL3/16x3	None	None	A36 Gr.36	Typical
12	M19A	N24B	N17A	46.385	PL3/16x3	None	None	A36 Gr.36	Typical
13	M20B	N25	N26	180	L3X3X3	None	None	A36 Gr.36	Typical
14	M21B	N28	N27	270	L3X3X3	None	None	A36 Gr.36	Typical
15	M22	N32	N33	135	PL3/16x3	None	None	A36 Gr.36	Typical
16	M23	N30	N34	135	PL3/16x3	None	None	A36 Gr.36	Typical
17	M24	N30	N31		PL3/16x2.125	None	None	A36 Gr.36	Typical
18	M25	N32	N29		PL3/16x2.125	None	None	A36 Gr.36	Typical
19	M26	N33	N35	46.848	L3X2X3	None	None	A36 Gr.36	Typical



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Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
20	M27	N36	N34	315	L3X2X3	None	None	A36 Gr.36	Typical
21	M28	N35	N31	135	PL3/16x3	None	None	A36 Gr.36	Typical
22	M29	N36	N29	135	PL3/16x3	None	None	A36 Gr.36	Typical
23	M29A	N8	N36A		RIGID	None	None	RIGID	Typical
24	M30	N26	N36A		RIGID	None	None	RIGID	Typical
25	M31	N40	N37	90	PL 1/2X8	None	None	A36 Gr.36	Typical
26	M32	N9	N40		RIGID	None	None	RIGID	Typical
27	M33	N27	N40		RIGID	None	None	RIGID	Typical
28	M34	N39	N41		RIGID	None	None	RIGID	Typical
29	M35	N40A	N42		RIGID	None	None	RIGID	Typical
30	M37	N45	N47		RIGID	None	None	RIGID	Typical
31	M38	N46	N48		RIGID	None	None	RIGID	Typical
32	M40	N51	N53		RIGID	None	None	RIGID	Typical
33	M41	N52	N54		RIGID	None	None	RIGID	Typical
34	M43	N57	N59		RIGID	None	None	RIGID	Typical
35	M44	N58	N60		RIGID	None	None	RIGID	Typical
36	MP4	N44	N43		PIPE 2.0	None	None	A53 Gr.B	Typical
37	MP3A	N50	N49		PIPE 2.0	None	None	A53 Gr.B	Typical
38	MP2A	N56	N55		PIPE 2.0	None	None	A53 Gr.B	Typical
39	MP1A	N62	N61		PIPE 2.0	None	None	A53 Gr.B	Typical
40	CBC2	N12	N11	270	L4X4X5	None	None	A36 Gr.36	Typical
41	CBC1	N17	N16	180	L4X4X5	None	None	A36 Gr.36	Typical
42	M45	N65	N79A		PIPE 2.0	None	None	A36 Gr.36	Typical
43	M46	N67	N68		PIPE 2.5	None	None	A53 Gr.B	Typical
44	MP4A	N66	N65A		PIPE 2.0	None	None	A53 Gr.B	Typical
45	M45A	N69A	N67A		RIGID	None	None	RIGID	Typical
46	M46A	N67A	N68A		RIGID	None	None	RIGID	Typical
47	M47	N72	N70A		RIGID	None	None	RIGID	Typical
48	M48	N70A	N71B		RIGID	None	None	RIGID	Typical
49	M49	N68A	N71B		SR 0.625	None	None	A36 Gr.36	Typical
50	M50	N69A	N72		SR 0.625	None	None	A36 Gr.36	Typical
51	M51	N75	N73		RIGID	None	None	RIGID	Typical
52	M52	N73	N74		RIGID	None	None	RIGID	Typical
53	M53	N78	N76		RIGID	None	None	RIGID	Typical
54	M54	N76	N77		RIGID	None	None	RIGID	Typical
55	M55	N74	N77		SR 0.625	None	None	A36 Gr.36	Typical
56	M56	N75	N78		SR 0.625	None	None	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	Col-Wall Vert Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
1	M1				Yes	** NA **	None
2	M3				Yes	** NA **	None
3	M19	BenPIN			Yes	** NA **	None
4	M11				Yes	** NA **	None
5	M12				Yes	** NA **	None
6	M13				Yes	** NA **	None
7	M14A			Tension Only	Yes	** NA **	None
8	M15			Tension Only	Yes	** NA **	None
9	M16A				Yes	** NA **	None
10	M17				Yes	** NA **	None
11	M18				Yes	** NA **	None
12	M19A				Yes	** NA **	None
13	M20B				Yes	** NA **	None
14	M21B				Yes	** NA **	None
15	M22				Yes	** NA **	None



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Member Advanced Data (Continued)

	Label	I Release	Col-Wall Vert Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
16	M23				Yes	** NA **	None
17	M24			Tension Only	Yes	** NA **	None
18	M25			Tension Only	Yes	** NA **	None
19	M26				Yes	** NA **	None
20	M27				Yes	** NA **	None
21	M28				Yes	** NA **	None
22	M29				Yes	** NA **	None
23	M29A				Yes	** NA **	None
24	M30				Yes	** NA **	None
25	M31				Yes	** NA **	None
26	M32				Yes	** NA **	None
27	M33				Yes	** NA **	None
28	M34	OOOXOX			Yes	** NA **	None
29	M35	OOOXOX			Yes	** NA **	None
30	M37	OOOXOX			Yes	** NA **	None
31	M38	OOOXOX			Yes	** NA **	None
32	M40	OOOXOX			Yes	** NA **	None
33	M41	OOOXOX			Yes	** NA **	None
34	M43	OOOXOX			Yes	** NA **	None
35	M44	OOOXOX			Yes	** NA **	None
36	MP4				Yes	** NA **	None
37	MP3A				Yes	** NA **	None
38	MP2A				Yes	** NA **	None
39	MP1A				Yes	** NA **	None
40	CBC2				Yes	** NA **	None
41	CBC1				Yes	** NA **	None
42	M45	BenPIN			Yes	** NA **	None
43	M46				Yes	** NA **	None
44	MP4A				Yes	** NA **	None
45	M45A				Yes	** NA **	None
46	M46A				Yes	** NA **	None
47	M47				Yes	** NA **	None
48	M48				Yes	** NA **	None
49	M49				Yes	** NA **	None
50	M50				Yes	** NA **	None
51	M51				Yes	** NA **	None
52	M52				Yes	** NA **	None
53	M53				Yes	** NA **	None
54	M54				Yes	** NA **	None
55	M55				Yes	** NA **	None
56	M56				Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Channel Conn.	a [ft]	Function
1	M1	PL1/2X8	0.375	N/A	N/A	Lateral
2	M3	L3X3X3	3.667	N/A	N/A	Lateral
3	M19	PIPE 2.0	2.55	N/A	N/A	Lateral
4	M11	L3X3X3	3.667	N/A	N/A	Lateral
5	M12	PL3/16x3	0.411	N/A	N/A	Lateral
6	M13	PL3/16x3	0.411	N/A	N/A	Lateral
7	M14A	PL3/16x2.125	4.569	N/A	N/A	Lateral
8	M15	PL3/16x2.125	4.569	N/A	N/A	Lateral
9	M16A	L3X2X3	2.51	N/A	N/A	Lateral
10	M17	L3X2X3	2.51	N/A	N/A	Lateral
11	M18	PL3/16x3	0.411	N/A	N/A	Lateral



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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Channel Conn.	a [ft]	Function
12	M19A	PL3/16x3	0.411	N/A	N/A	Lateral
13	M20B	L3X3X3	3.667	N/A	N/A	Lateral
14	M21B	L3X3X3	3.667	N/A	N/A	Lateral
15	M22	PL3/16x3	0.411	N/A	N/A	Lateral
16	M23	PL3/16x3	0.411	N/A	N/A	Lateral
17	M24	PL3/16x2.125	4.569	N/A	N/A	Lateral
18	M25	PL3/16x2.125	4.569	N/A	N/A	Lateral
19	M26	L3X2X3	2.51	N/A	N/A	Lateral
20	M27	L3X2X3	2.51	N/A	N/A	Lateral
21	M28	PL3/16x3	0.411	N/A	N/A	Lateral
22	M29	PL3/16x3	0.411	N/A	N/A	Lateral
23	M31	PL1/2X8	0.375	N/A	N/A	Lateral
24	MP4	PIPE 2.0	8	N/A	N/A	Lateral
25	MP3A	PIPE 2.0	8	N/A	N/A	Lateral
26	MP2A	PIPE 2.0	8	N/A	N/A	Lateral
27	MP1A	PIPE 2.0	8	N/A	N/A	Lateral
28	CBC2	L4X4X5	12.5	N/A	N/A	Lateral
29	CBC1	L4X4X5	12.5	N/A	N/A	Lateral
30	M45	PIPE 2.0	6.097	N/A	N/A	Lateral
31	M46	PIPE 2.5	7	N/A	N/A	Lateral
32	MP4A	PIPE 2.0	8	N/A	N/A	Lateral
33	M49	SR 0.625	0.25	N/A	N/A	Lateral
34	M50	SR 0.625	0.25	N/A	N/A	Lateral
35	M55	SR 0.625	0.25	N/A	N/A	Lateral
36	M56	SR 0.625	0.25	N/A	N/A	Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
1	Antenna D	None				42	
2	Antenna Di	None				42	
3	Antenna Wo (0 Deg)	None				42	
4	Antenna Wo (30 Deg)	None				42	
5	Antenna Wo (60 Deg)	None				42	
6	Antenna Wo (90 Deg)	None				42	
7	Antenna Wo (120 Deg)	None				42	
8	Antenna Wo (150 Deg)	None				42	
9	Antenna Wo (180 Deg)	None				42	
10	Antenna Wo (210 Deg)	None				42	
11	Antenna Wo (240 Deg)	None				42	
12	Antenna Wo (270 Deg)	None				42	
13	Antenna Wo (300 Deg)	None				42	
14	Antenna Wo (330 Deg)	None				42	
15	Antenna Wi (0 Deg)	None				42	
16	Antenna Wi (30 Deg)	None				42	
17	Antenna Wi (60 Deg)	None				42	
18	Antenna Wi (90 Deg)	None				42	
19	Antenna Wi (120 Deg)	None				42	
20	Antenna Wi (150 Deg)	None				42	
21	Antenna Wi (180 Deg)	None				42	
22	Antenna Wi (210 Deg)	None				42	
23	Antenna Wi (240 Deg)	None				42	
24	Antenna Wi (270 Deg)	None				42	
25	Antenna Wi (300 Deg)	None				42	
26	Antenna Wi (330 Deg)	None				42	
27	Antenna Wm (0 Deg)	None				42	



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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
28	Antenna Wm (30 Deg)	None				42	
29	Antenna Wm (60 Deg)	None				42	
30	Antenna Wm (90 Deg)	None				42	
31	Antenna Wm (120 Deg)	None				42	
32	Antenna Wm (150 Deg)	None				42	
33	Antenna Wm (180 Deg)	None				42	
34	Antenna Wm (210 Deg)	None				42	
35	Antenna Wm (240 Deg)	None				42	
36	Antenna Wm (270 Deg)	None				42	
37	Antenna Wm (300 Deg)	None				42	
38	Antenna Wm (330 Deg)	None				42	
39	Structure D	None		-1			
40	Structure Di	None					36
41	Structure Wo (0 Deg)	None					72
42	Structure Wo (30 Deg)	None					72
43	Structure Wo (60 Deg)	None					72
44	Structure Wo (90 Deg)	None					72
45	Structure Wo (120 Deg)	None					72
46	Structure Wo (150 Deg)	None					72
47	Structure Wo (180 Deg)	None					72
48	Structure Wo (210 Deg)	None					72
49	Structure Wo (240 Deg)	None					72
50	Structure Wo (270 Deg)	None					72
51	Structure Wo (300 Deg)	None					72
52	Structure Wo (330 Deg)	None					72
53	Structure Wi (0 Deg)	None					72
54	Structure Wi (30 Deg)	None					72
55	Structure Wi (60 Deg)	None					72
56	Structure Wi (90 Deg)	None					72
57	Structure Wi (120 Deg)	None					72
58	Structure Wi (150 Deg)	None					72
59	Structure Wi (180 Deg)	None					72
60	Structure Wi (210 Deg)	None					72
61	Structure Wi (240 Deg)	None					72
62	Structure Wi (270 Deg)	None					72
63	Structure Wi (300 Deg)	None					72
64	Structure Wi (330 Deg)	None					72
65	Structure Wm (0 Deg)	None					72
66	Structure Wm (30 Deg)	None					72
67	Structure Wm (60 Deg)	None					72
68	Structure Wm (90 Deg)	None					72
69	Structure Wm (120 Deg)	None					72
70	Structure Wm (150 Deg)	None					72
71	Structure Wm (180 Deg)	None					72
72	Structure Wm (210 Deg)	None					72
73	Structure Wm (240 Deg)	None					72
74	Structure Wm (270 Deg)	None					72
75	Structure Wm (300 Deg)	None					72
76	Structure Wm (330 Deg)	None					72
77	Lm1	None				1	
78	Lm2	None				1	
79	Lv1	None				1	
80	Lv2	None				1	
81	Antenna Ev	None				42	
82	Antenna Eh (0 Deg)	None				28	



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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
83	Antenna Eh (90 Deg)	None				28	
84	Structure Ev	ELY		-0.073			
85	Structure Eh (0 Deg)	ELZ			-0.228		
86	Structure Eh (90 Deg)	ELX	0.228				

Load Combinations

	Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						



Company : Paul J. Ford
 Designer : MTB
 Job Number : Project No. 10274519
 Model Name : 5000270666-VZW_MT_LOT_Sec...

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Load Combinations (Continued)

	Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5									
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5									
51	1.4D	Yes	Y	1	1.4	39	1.4											
52	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX
53	1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX
54	1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX
55	1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX
56	1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX
57	1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX
58	1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX
59	1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX
60	1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX
61	1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX
62	1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX
63	1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX

Envelope Node Reactions

Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N69	max	1272.443	11	2028.346	18	1375.929	12	0	75	0	75	0
2		min	-973.268	5	-58.846	12	-2759.565	6	0	1	0	1	0
3	N70	max	743.337	35	1938.189	14	1736.507	14	0	75	0	75	0
4		min	-667.157	5	97.604	8	-152.33	8	0	1	0	1	0
5	N79	max	244.44	11	278.42	11	1110.625	5	0	75	0	75	0
6		min	-273.661	5	-306.586	5	-967.441	11	0	1	0	1	0
7	N79A	max	81.385	6	249.259	12	836.927	12	0	75	0	75	0
8		min	-111.454	12	-165.235	6	-635.963	6	0	1	0	1	0
9	Totals:	max	1857.163	11	3788.003	14	2655.382	1					
10		min	-1857.158	5	833.607	72	-2655.419	7					

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

Member	Shape	Code Check	Loc [ft]	LC	Shear	Check	Loc [ft]	Dir	LC	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	M46	PIPE 2.5	0.845	4.667	14	0.245	4.667	14	33961.614	50715	3.596	3.596	1	H1-1b
2	M31	PL1/2X8	0.666	0.375	14	0.325	0.375	y	5	123135.108	129600	1.35	21.6	1.124
3	M49	SR 0.625	0.489	0	5	0.135	0	5	9749.147	9940.196	0.104	0.104	1	H1-1b
4	M50	SR 0.625	0.489	0.25	11	0.154	0	11	9749.147	9940.196	0.104	0.104	1	H1-1b
5	CBC1	L4X4X5	0.426	9.115	31	0.027	3.255	z	11	14698.419	77760	3.777	6.616	1.463
6	CBC2	L4X4X5	0.412	9.115	29	0.053	9.245	y	5	14698.419	77760	3.777	6.617	1.464
7	M11	L3X3X3	0.407	3.4	14	0.261	3.667	y	13	24642.945	35316	1.32	2.711	1.468
8	M1	PL1/2X8	0.37	0.375	6	0.281	0.375	y	11	123135.108	129600	1.35	21.6	1.385
9	M3	L3X3X3	0.344	0	6	0.203	3.667	z	6	24642.945	35316	1.32	2.722	1.5
10	M21B	L3X3X3	0.307	3.4	13	0.192	3.667	z	2	24642.945	35316	1.32	2.722	1.5



Company : Paul J. Ford
 Designer : MTB
 Job Number : Project No. 10274519
 Model Name : 5000270666-VZW_MT_LOT_Sec...

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Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
11	M12	PL3/16x3	0.301	0	15	0.05	0	y	14	11760.376	18225	0.071	1.139	1.1	H1-1b	
12	M20B	L3X3X3	0.3	0	7	0.235	0.267	y	2	24642.945	35316	1.32	2.722	1.5	H2-1	
13	M55	SR 0.625	0.287	0.25	18	0.06	0		16	9749.147	9940.196	0.104	0.104	1	H1-1b	
14	M16A	L3X2X3	0.273	0	14	0.026	0	y	14	22351.584	29710.8	0.641	1.924	1.5	H2-1	
15	M18	PL3/16x3	0.249	0.411	14	0.049	0	y	14	11761.419	18225	0.071	1.139	1.121	H1-1b	
16	M23	PL3/16x3	0.231	0.411	2	0.051	0	y	14	11760.376	18225	0.071	1.139	2.176	H1-1b	
17	M29	PL3/16x3	0.225	0.411	26	0.05	0	y	14	11761.419	18225	0.071	1.139	1.104	H1-1b	
18	M19A	PL3/16x3	0.219	0.411	15	0.036	0	y	14	11761.419	18225	0.071	1.139	1.1	H1-1b	
19	M13	PL3/16x3	0.21	0	14	0.039	0	y	2	11760.376	18225	0.071	1.139	1.121	H1-1b	
20	M14A	PL3/16x2.125	0.208	4.569	18	0.014	0	y	5	87.697	12909.391	0.05	0.413	2.345	H1-1a*	
21	MP2A	PIPE 2.0	0.204	2.333	12	0.181	4.917		14	14916.096	32130	1.872	1.872	1	H1-1b	
22	M26	L3X2X3	0.204	0	13	0.021	0	z	14	22351.584	29710.8	0.641	1.736	1.5	H2-1	
23	M17	L3X2X3	0.195	0	14	0.02	2.51	y	14	22351.584	29710.8	0.641	1.924	1.5	H2-1	
24	MP4A	PIPE 2.0	0.194	3.333	6	0.066	4.583		7	14916.096	32130	1.872	1.872	1	H1-1b	
25	M27	L3X2X3	0.188	0	27	0.025	2.51	z	14	22351.584	29710.8	0.641	1.736	1.5	H2-1	
26	M24	PL3/16x2.125	0.187	4.569	28	0.027	4.569	y	2	87.697	12909.391	0.05	0.406	2.307	H1-1b*	
27	M22	PL3/16x3	0.158	0	13	0.035	0	y	14	11760.376	18225	0.071	1.139	1.097	H1-1b	
28	MP4	PIPE 2.0	0.142	3.333	7	0.163	2.333		8	14916.096	32130	1.872	1.872	1	H1-1b	
29	M28	PL3/16x3	0.135	0	9	0.035	0	y	14	11761.419	18225	0.071	1.119	1.07	H1-1b	
30	M56	SR 0.625	0.135	0.25	19	0.032	0		18	9749.147	9940.196	0.104	0.104	1	H1-1b	
31	MP1A	PIPE 2.0	0.116	3.083	17	0.223	2.917		15	14916.096	32130	1.872	1.872	1	H1-1b	
32	MP3A	PIPE 2.0	0.114	2.333	6	0.132	4.917		2	14916.096	32130	1.872	1.872	1	H1-1b	
33	M45	PIPE 2.0	0.045	3.048	23	0.004	6.097		17	20896.104	33048	1.925	1.925	1	H1-1b	
34	M19	PIPE 2.0	0.039	0	5	0.002	2.55		23	30500.957	33048	1.925	1.925	1	H1-1b*	
35	M15	PL3/16x2.125	0	4.569	75	0	4.569	y	75	87.697	12909.391	0.05	0.176	1	H1-1a	
36	M25	PL3/16x2.125	0	4.569	75	0	4.569	y	75	87.697	12909.391	0.05	0.176	1	H1-1a	