

## ATTACHMENT F

### Hydraulic Model Results

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  - 500 gpm at Fire Hydrant #16
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  - 500 gpm at the Restaurant Hydrant
  - 1,200 gpm at the Restaurant Hydrant
  - 600 gpm at the Tanglefoot Hydrant

### Existing System

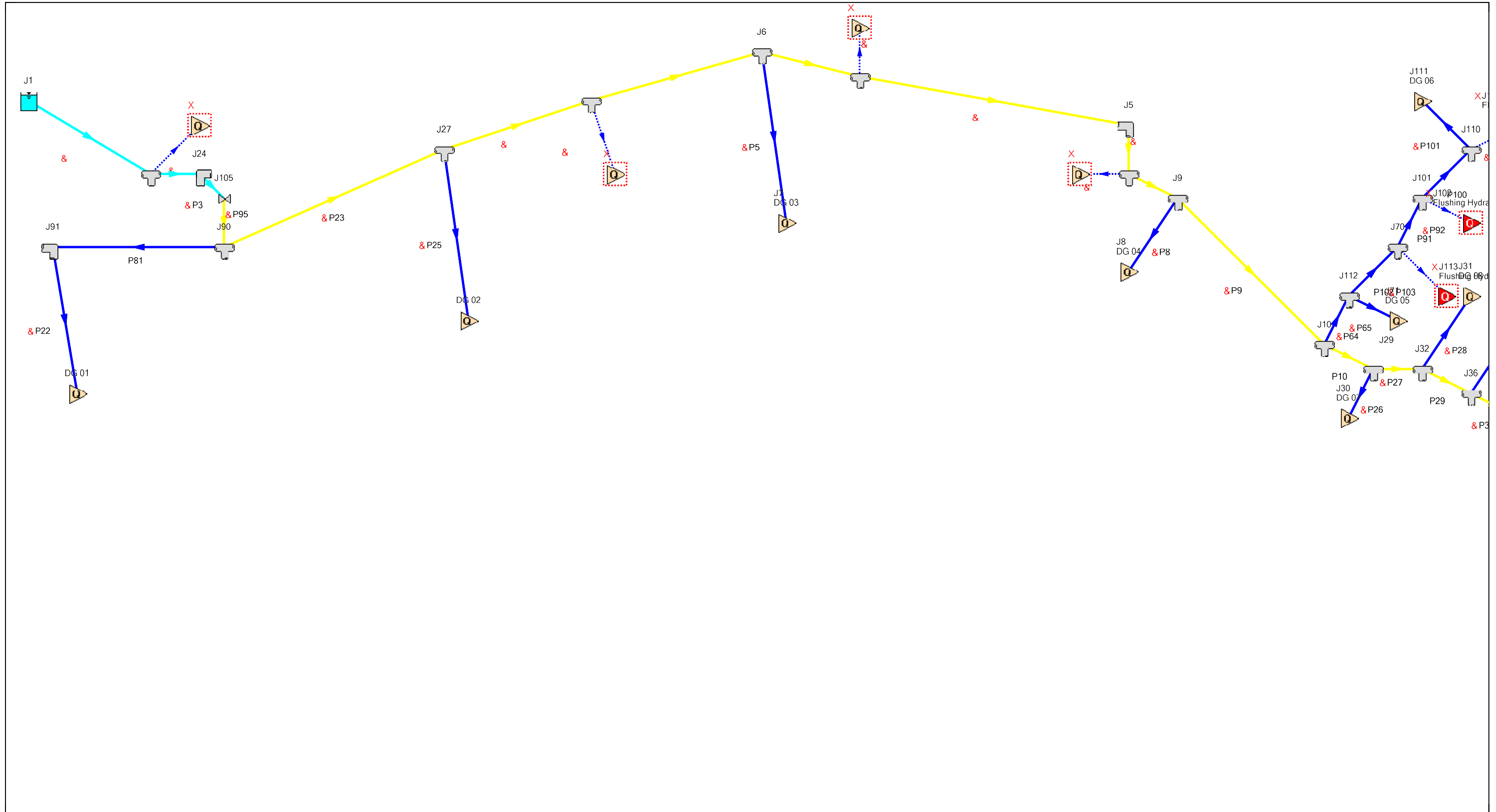
Pipe	Length (ft)	Size	Pipe Classification	Pipe Subgroup	Peak Modeled Flow During FF Scenario (gpm)	Min Pressure During FF Scenario (psi)
22	300	3/4 inch	Domestic Group	1	0.6944	66.925
81	354	3/4 inch	Domestic Group	1	0.6944	37.551
25	300	1-1/2 inch	Domestic Group	2	0.6944	45.97
5	300	1-1/2 inch	Domestic Group	3	1.2153	17.4
8	130	1-1/2 inch	Domestic Group	4	0.5208	-2.89
65	50	1-1/2 inch	Domestic Group	5	0.6944	-33.907
101	50	3/4 inch	Domestic Group	6	1.0417	-53.552
26	50	1-1/2 inch	Domestic Group	7	0.5208	-23.091
28	172	1-1/2 inch	Domestic Group	8	0.3472	-30.241
98	45	1-1/2 inch	Domestic Group	9	0.8681	-404.131
32	125	3/4 inch	Domestic Group	10	0.6944	-27.176
34	100	1-1/2 inch	Domestic Group	11	0.5208	-30.1818
21	120	1-1/2 inch	Domestic Group	12	0.1736	-80.6401
39	70	1-1/2 inch	Domestic Group	13	0.3472	-83.054
35	60	3/4 inch	Domestic Group	14	0.1736	-68.3028
37	116	1-1/2 inch	Domestic Group	15	0.3472	-77.4262
41	200	1-1/2 inch	Domestic Group	16	0.6944	-52.8299
17	115	3 inch	Domestic Group	17	1.2153	-56.2984
125	23	1-1/2 inch	Domestic Group	18	0.3472	-57.6076
44	90	3/4 inch	Domestic Group	19	0.5208	-54.6068
46	50	3/4 inch	Domestic Group	20	0.8681	-55.5151
130	19	3/4 inch	Domestic Group	20	0.8681	-47.7276
48	160	1-1/2 inch	Domestic Group	21	0.6944	-35.176
49	400	3/4 inch	Domestic Group	22	0.6944	-69.754
50	115	3/4 inch	Domestic Group	23	0.6944	-71.346
107	340	3/4 inch	Domestic Group	24	0.8681	-101.768
52	121	3/4 inch	Domestic Group	25	0.6944	-112.345
53	247	3/4 inch	Domestic Group	26	0.3472	-138.325
54	225	3/4 inch	Domestic Group	27	0.3472	-163.475
56	229	3/4 inch	Domestic Group	28	0.1736	-189.004
97	205	3/4 inch	Domestic Group	29	0.3472	-227.687
109	370	2 inch	Domestic Group	30	1.0417	-227.572
110	146	3/4 inch	Domestic Group	30	1.0417	-246.888
71	130	1-1/2 inch	Domestic Group	R	0.5208	-30.6086
111	10	2-1/2 inch	Domestic Group	T	0.1736	-669.59
112	250	3/4 inch	Domestic Group	T	0.1736	-669.618
67	27	2-1/2 inch	Hydrant	1	500	-282.306
88	492.7	4 inch	Hydrant	2	500	-156.756
103	7	2-1/2 inch	Hydrant	3	500	-58.324
93	12	2-1/2 inch	Hydrant	4	500	-92.165
79	50	2-1/2 inch	Hydrant	5	500	-698.129
11	114.6	2-1/2 inch	Hydrant	6	500	-123.337
105	6	2-1/2 inch	Hydrant	8	500	-89.881
99	132	2 inch	Hydrant	9	500	-575.856
113	12	6 inch	Hydrant	10	500	40.89
69	10	2-1/2 inch	Hydrant	R	500	-60.4241

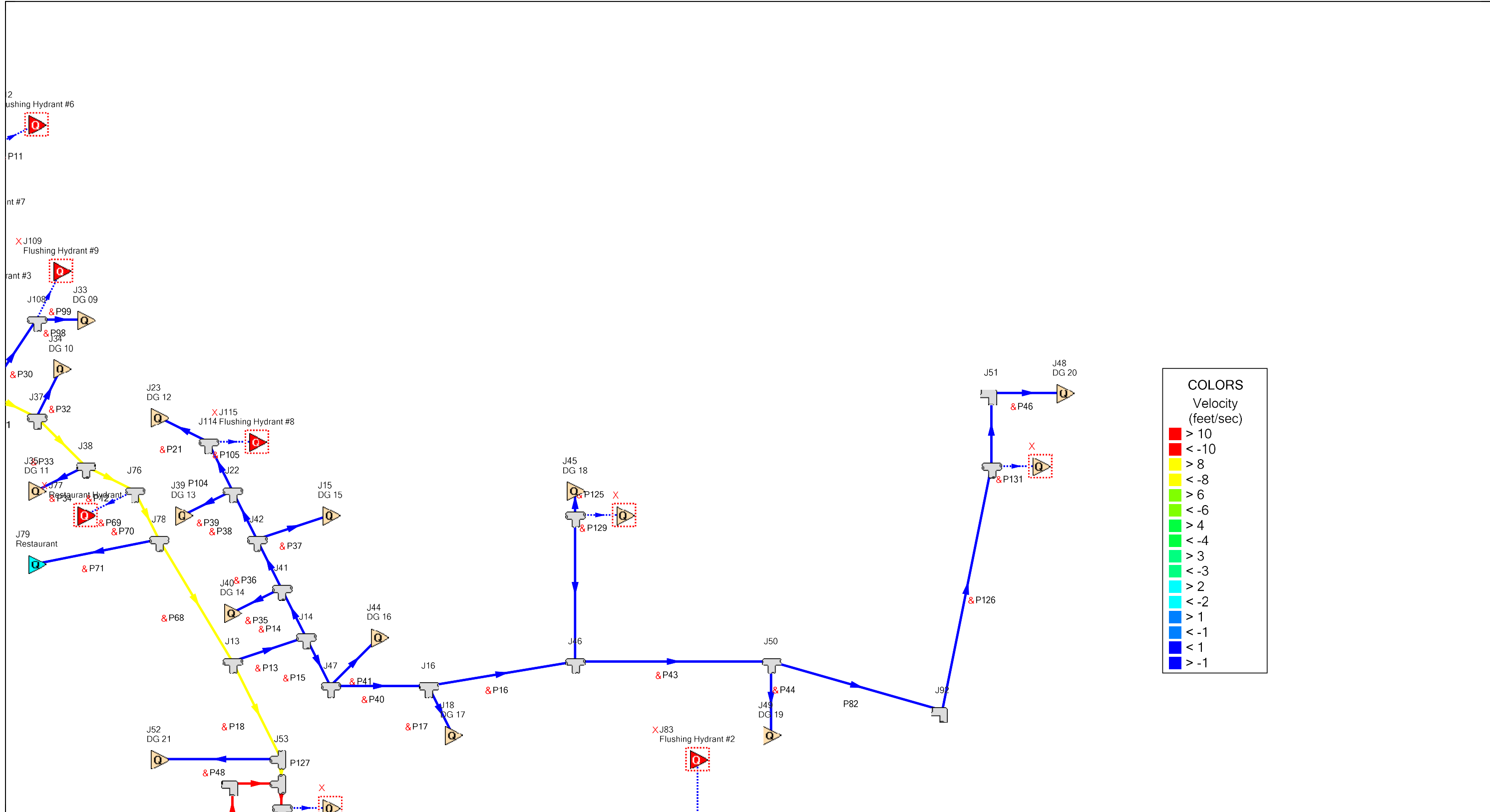
### Future Improvements - No Loops

Pipe	Length (ft)	Size	Pipe Classification	Pipe Subgroup	Peak Modeled Flow During FF Scenario (gpm)	Min Pressure During FF Scenario (psi)
22	300	3/4 inch	Domestic Group	1	0.6944	66.81
81	354	3/4 inch	Domestic Group	1	0.6944	37.44
25	300	1-1/2 inch	Domestic Group	2	0.6944	66.49
5	300	1-1/2 inch	Domestic Group	3	1.2153	64.86
8	130	1-1/2 inch	Domestic Group	4	4.5139	84.23
65	50	1-1/2 inch	Domestic Group	5	0.6944	83.62
101	50	3/4 inch	Domestic Group	6	1.0417	76.47
26	50	1-1/2 inch	Domestic Group	7	0.5208	84.01
28	172	1-1/2 inch	Domestic Group	8	0.3472	79.53
98	45	1-1/2 inch	Domestic Group	9	0.8681	81.34
32	125	3/4 inch	Domestic Group	10	0.6944	83.04
34	100	1-1/2 inch	Domestic Group	11	0.5208	82.47
21	120	1-1/2 inch	Domestic Group	12	0.1736	71.79
39	70	1-1/2 inch	Domestic Group	13	0.3472	70.82
35	60	3/4 inch	Domestic Group	14	0.1736	70.14
37	116	1-1/2 inch	Domestic Group	15	0.3472	72.64
41	200	1-1/2 inch	Domestic Group	16	0.6944	74.48
17	115	3 inch	Domestic Group	17	1.0744	68.71
42	23	1-1/2 inch	Domestic Group	18	0.8596	61.94
44	90	3/4 inch	Domestic Group	19	0.8596	62.75
46	50	3/4 inch	Domestic Group	20	0.8596	53.76
128	19	3/4 inch	Domestic Group	20	0.8596	61.62
48	160	1-1/2 inch	Domestic Group	21	0.6944	76.72
49	400	3/4 inch	Domestic Group	22	0.6944	73.58
50	115	3/4 inch	Domestic Group	23	0.6944	60.86
107	340	3/4 inch	Domestic Group	24	0.8681	61.22
52	121	3/4 inch	Domestic Group	25	0.6944	62.2
53	247	3/4 inch	Domestic Group	26	0.3472	62.76
54	225	3/4 inch	Domestic Group	27	0.3472	58.69
56	229	3/4 inch	Domestic Group	28	0.1736	52.82
97	205	3/4 inch	Domestic Group	29	0.3472	35.86
109	370	2 inch	Domestic Group	30	1.0417	65.06
110	146	3/4 inch	Domestic Group	30	1.0417	58.95
71	130	1-1/2 inch	Domestic Group	R	0.5208	81.61
111	10	2-1/2 inch	Domestic Group	T	0.1736	64.35
112	250	3/4 inch	Domestic Group	T	0.1736	64.69
67	27	6 inch	Hydrant	1	500	32.7
88	492.7	6 inch	Hydrant	2	500	60.32
103	7	6 inch	Hydrant	3	500	86.25
93	12	6 inch	Hydrant	4	500	71.89
79	50	6 inch	Hydrant	5	500	73.47
11	114.6	6 inch	Hydrant	6	500	71.82
105	6	6 inch	Hydrant	8	500	74.81
99	132	6 inch	Hydrant	9	500	77.09
113	12	6 inch	Hydrant	10	500	41.2
115	12	6 inch	Hydrant	11	500	43.48
117	12	6 inch	Hydrant	12	500	50.74
122	12	6 inch	Hydrant	13.1	Not Modeled Open	75.92
120	12	6 inch	Hydrant	13.2	Not Modeled Open	75.21
125	12	6 inch	Hydrant	14	500	64.9
127	12	6 inch	Hydrant	15	Not Modeled Open	67.15
129	12	6 inch	Hydrant	16	500	58.7
158	12	6 inch	Hydrant	17	500	75.52
132	12	6 inch	Hydrant	18	Not Modeled Open	65.85
135	12	6 inch	Hydrant	19	Not Modeled Open	63.36
137	12	6 inch	Hydrant	20	Not Modeled Open	44.05
69	10	6 inch	Hydrant	R	500	85.08
69	10	6 inch	Hydrant	R	1200	48.96
166	688	6 inch	Hydrant	T	600	24.06

### Future Improvements - With Loops

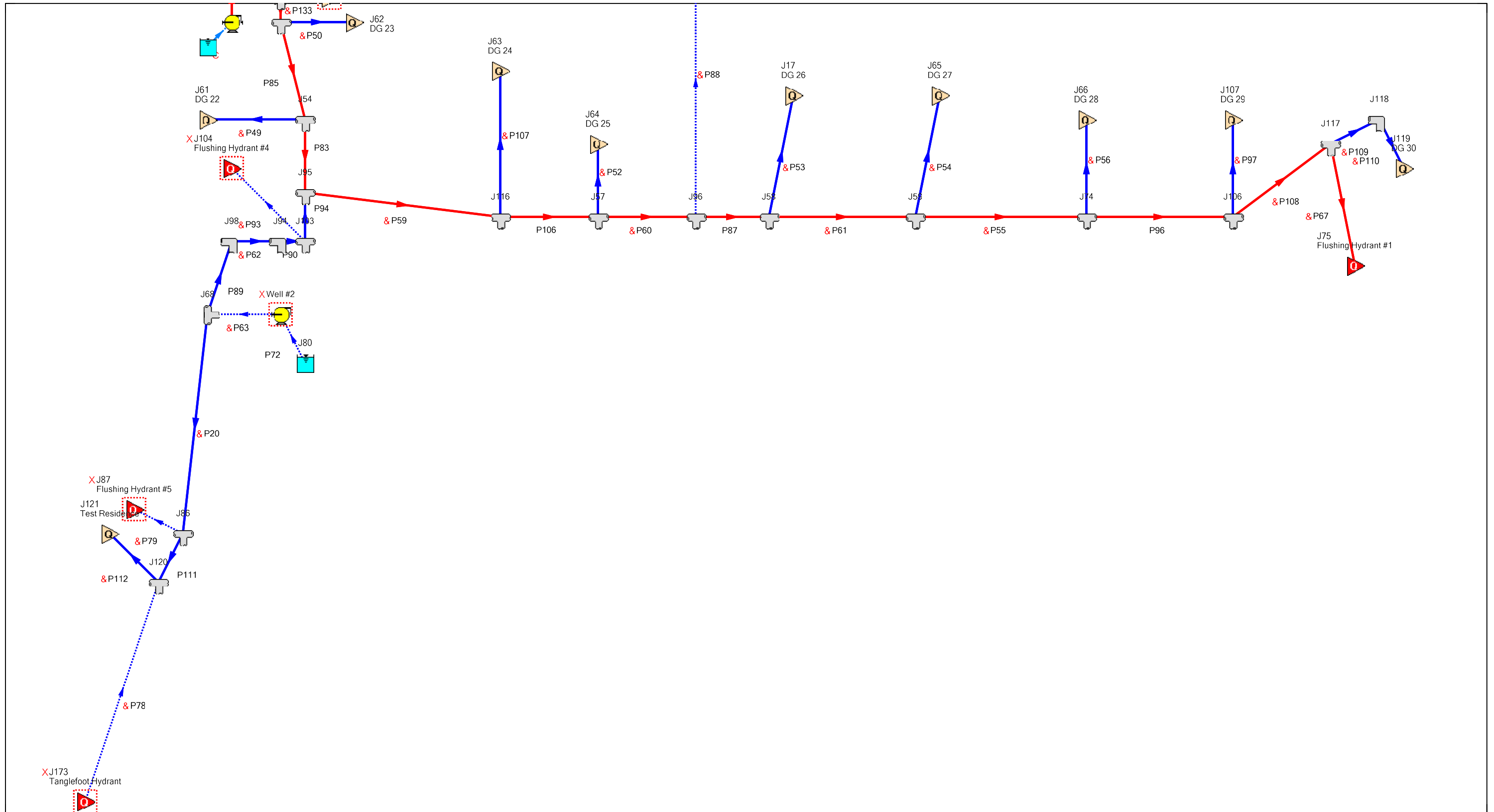
Pipe	Length (ft)	Size	Pipe Classification	Pipe Subgroup	Peak Modeled Flow During FF Scenario (gpm)	Min Pressure During FF Scenario (psi)
22	300	3/4 inch	Domestic Group	1	0.69444	67.02
81	354	3/4 inch	Domestic Group	1	0.6944	37.65
25	300	1-1/2 inch	Domestic Group	2	0.6944	66.76
5	300	1-1/2 inch	Domestic Group	3	1.21528	65.28
8	130	1-1/2 inch	Domestic Group	4	4.51389	84.88
65	50	1-1/2 inch	Domestic Group	5	0.6944	83.98
101	50	3/4 inch	Domestic Group	6	1.0417	72.36
26	50	1-1/2 inch	Domestic Group	7	0.5208	84.78
28	172	1-1/2 inch	Domestic Group	8	0.3472	80.33
98	45	1-1/2 inch	Domestic Group	9	0.8681	77.67
32	125	3/4 inch	Domestic Group	10	0.6944	83.97
34	100	1-1/2 inch	Domestic Group	11	0.5208	83.39
21	120	1-1/2 inch	Domestic Group	12	0.1736	67.43
39	70	1-1/2 inch	Domestic Group	13	0.3472	72.03
35	60	3/4 inch	Domestic Group	14	0.1736	70.42
37	116	1-1/2 inch	Domestic Group	15	0.3472	73.37
41	200	1-1/2 inch	Domestic Group	16	0.6944	73.67
17	115	3 inch	Domestic Group	17	1.2153	70.18
42	23	1-1/2 inch	Domestic Group	18	0.3472	68.05
44	90	3/4 inch	Domestic Group	19	0.5208	69.95
46	50	3/4 inch	Domestic Group	20	0.8681	60.62
128	19	3/4 inch	Domestic Group	20	0.8681	67.6
48	160	1-1/2 inch	Domestic Group	21	0.6944	79.76
49	400	3/4 inch	Domestic Group	22	0.6944	79.19
50	115	3/4 inch	Domestic Group	23	0.6944	65.43
107	340	3/4 inch	Domestic Group	24	0.8681	67.35
52	121	3/4 inch	Domestic Group	25	0.8681	68.22
53	247	3/4 inch	Domestic Group	26	0.3472	69.28
54	225	3/4 inch	Domestic Group	27	0.3472	65.81
56	229	3/4 inch	Domestic Group	28	0.1736	60.59
97	205	3/4 inch	Domestic Group	29	0.3472	44.44
110	146	3/4 inch	Domestic Group	30	1.0417	49.12
71	130	1-1/2 inch	Domestic Group	R	0.5208	83.2
111	10	2-1/2 inch	Domestic Group	T	0.1736	72.87
112	250	3/4 inch	Domestic Group	T	0.1736	72.85
67	27	6 inch	Hydrant	1	125	25.92
37	27	6 inch	Hydrant	1	500	41.93
161	492.7	6 inch	Hydrant	2	500	64.97
103	7	6 inch	Hydrant	3	500	84.62
93	12	6 inch	Hydrant	4	500	71.56
79	50	6 inch	Hydrant	5	500	72.14
11	114.6	6 inch	Hydrant	6	500	67.71
105	6	6 inch	Hydrant	8	500	70.45
99	132	6 inch	Hydrant	9	500	77.93
113	12	6 inch	Hydrant	10	500	40.87
115	12	6 inch	Hydrant	11	500	42.9
117	12	6 inch	Hydrant	12	500	49.94
120	12	6 inch	Hydrant	13	Not Modeled Open	75.84
125	12	6 inch	Hydrant	14	500	71.02
127	12	6 inch	Hydrant	15	Not Modeled Open	74.01
129	12	6 inch	Hydrant	16	500	65.56
131	38	6 inch	Hydrant	17	500	74.28
132	12	6 inch	Hydrant	18	Not Modeled Open	71.64
135	12	6 inch	Hydrant	19	Not Modeled Open	70.64
137	12	6 inch	Hydrant	20	Not Modeled Open	52.5
122	12	6 inch	Hydrant	21	Not Modeled Open	77.69
69	10	6 inch	Hydrant	R	500	83.67
78	356	6 inch	Hydrant	T	600	23.16

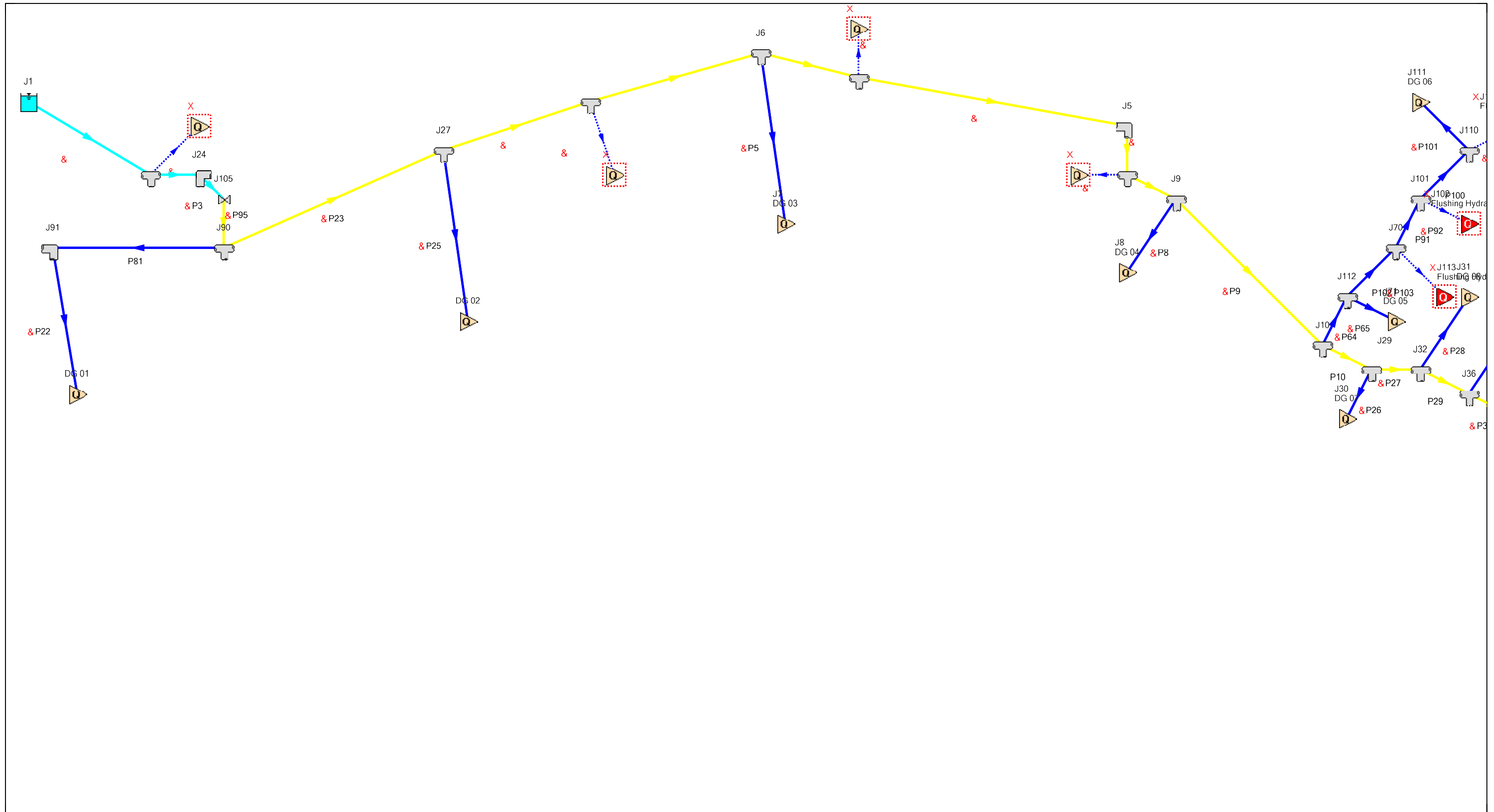


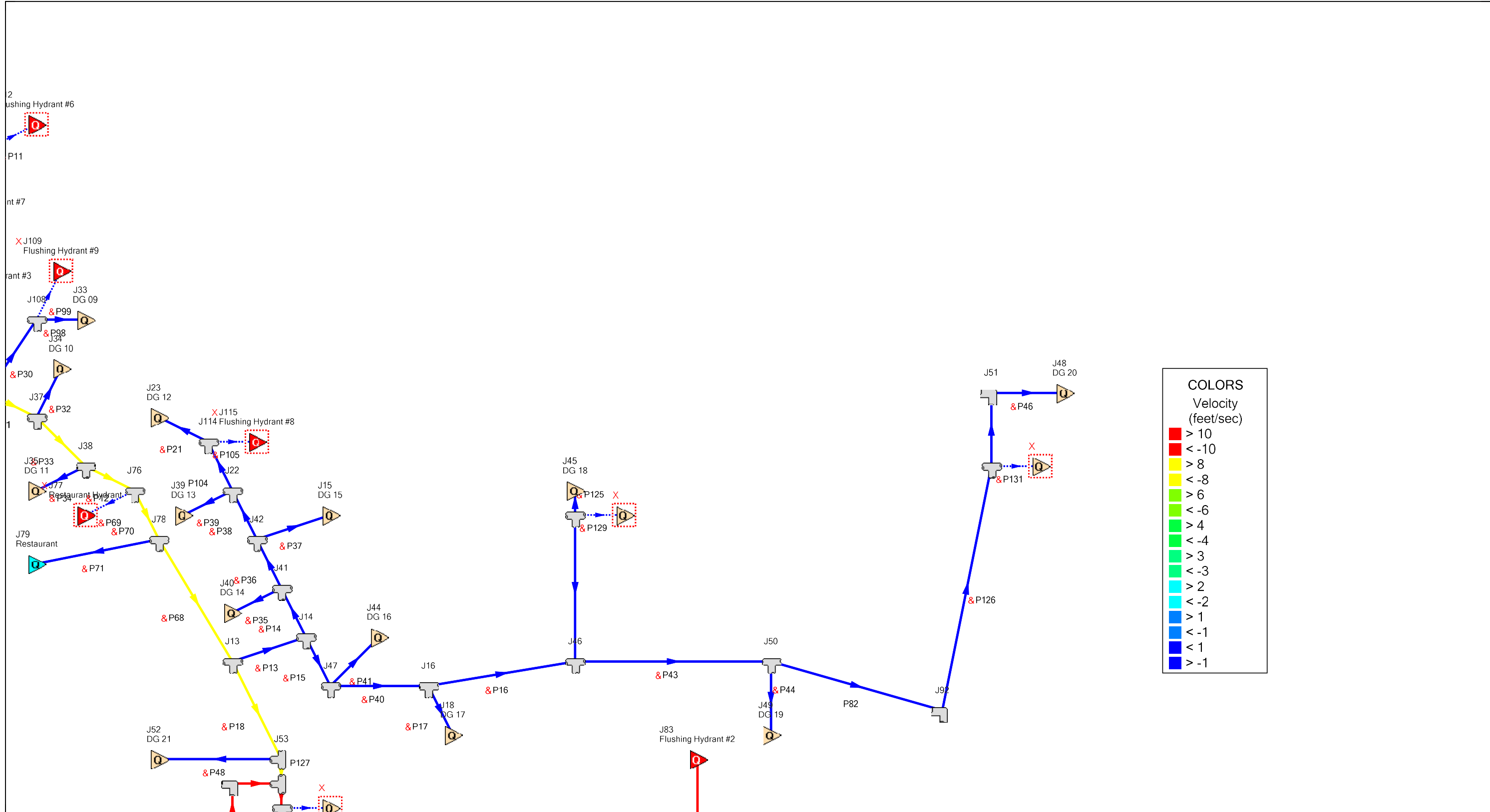


**COLORS**  
Velocity (feet/sec)

Red	> 10
Dark Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Cyan	> 3
Dark Cyan	< -3
Light Blue	> 2
Dark Blue	< -2
Very Light Blue	> 1
Very Dark Blue	< -1
Black	> -1



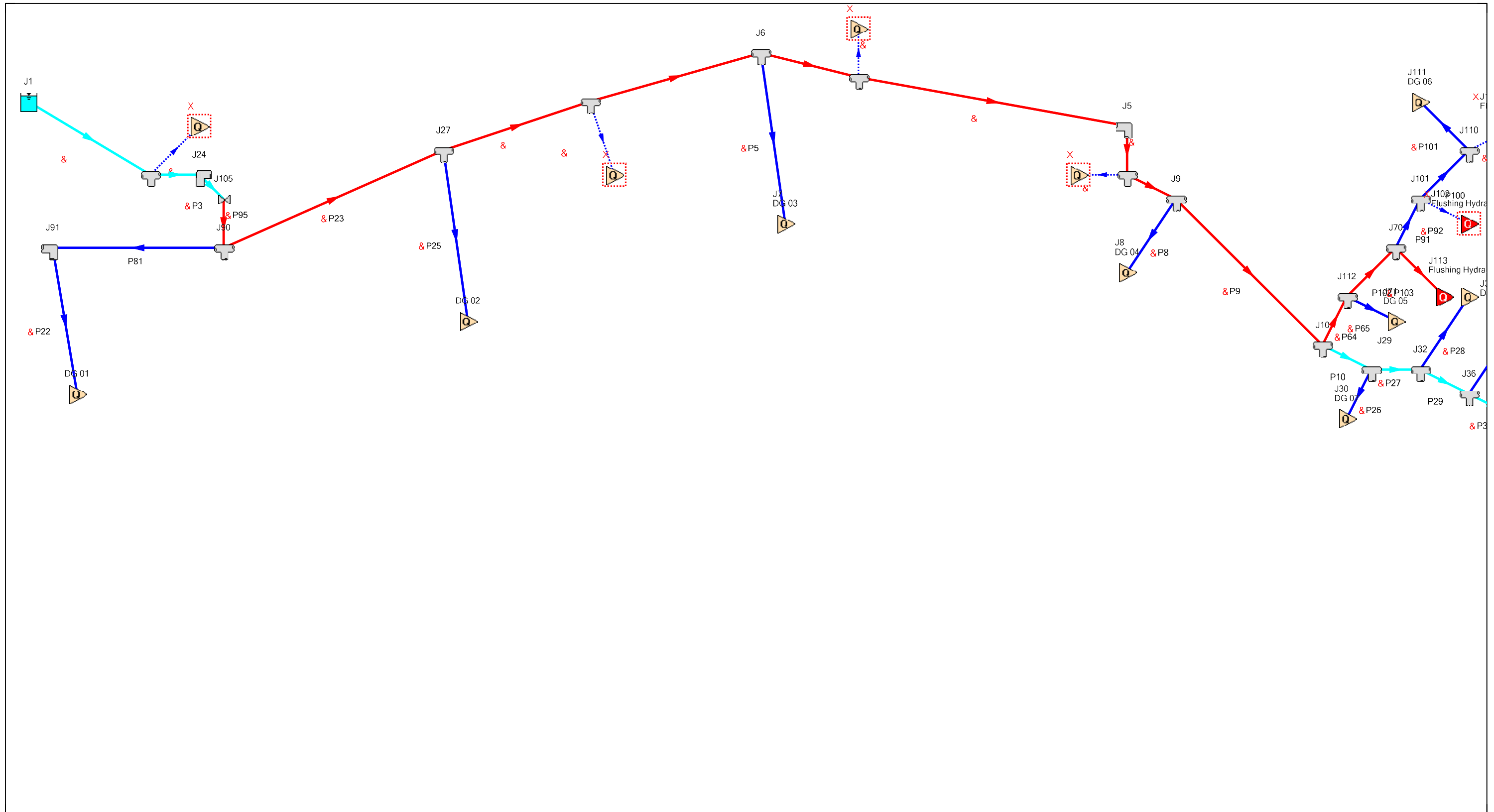




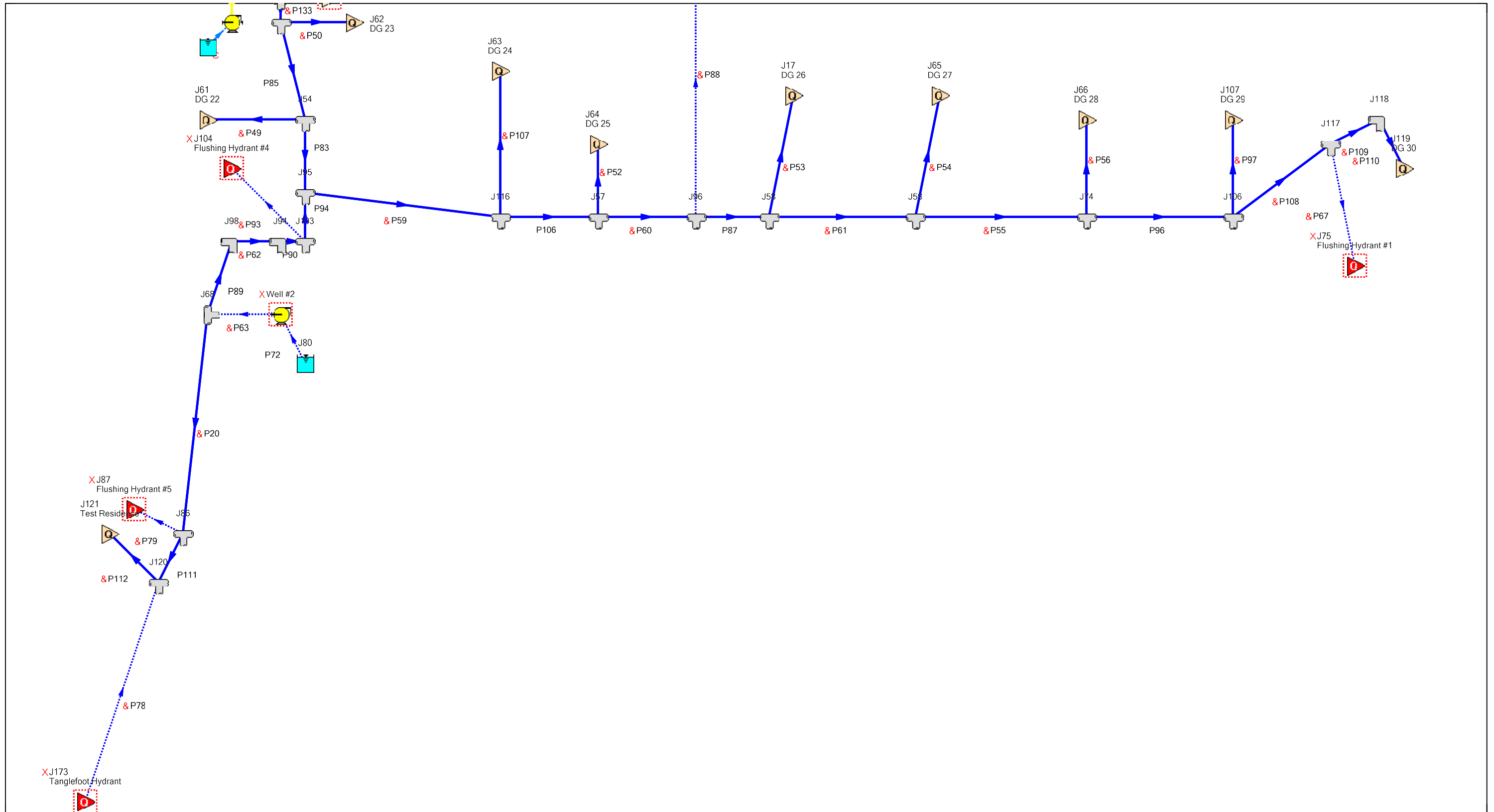
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Velocity (feet/sec)

Red	> 10
Dark Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Cyan	> 3
Dark Cyan	< -3
Light Blue	> 2
Dark Blue	< -2
Dark Blue	> 1
Very Dark Blue	< -1
Very Dark Blue	> -1



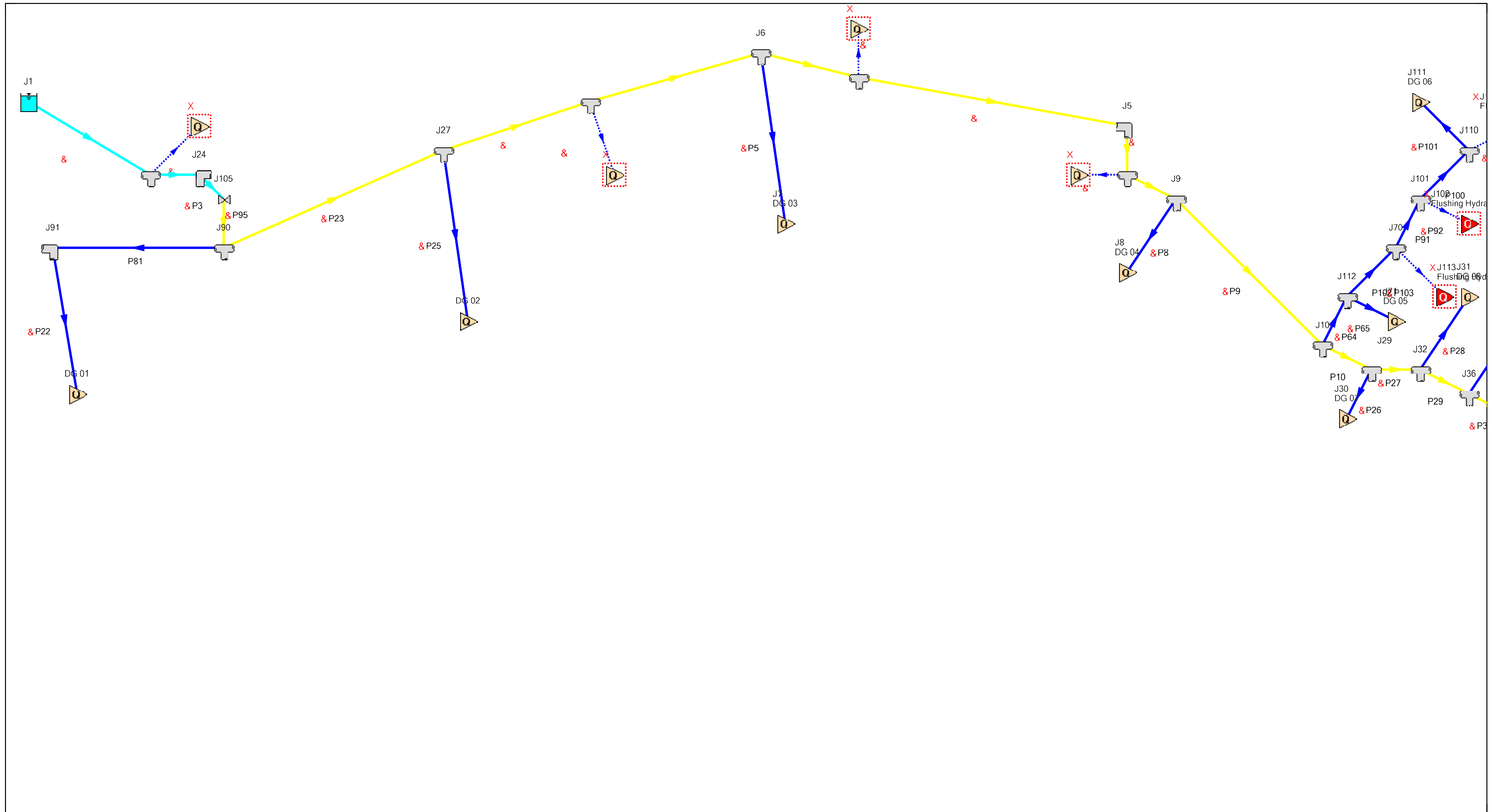


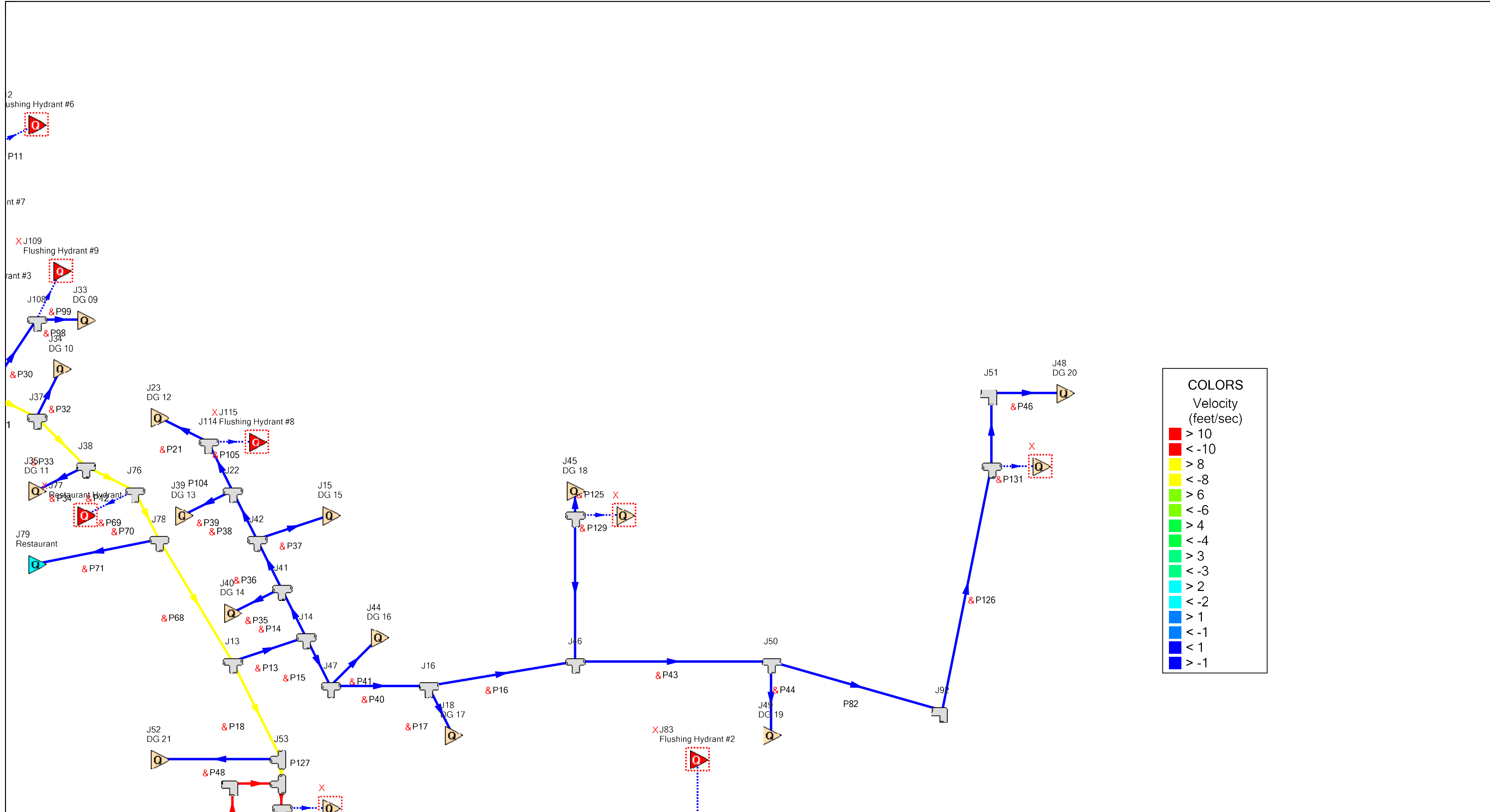




AFT Fathom 13 (Workspace)  
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Unimproved Existing System  
 500 gpm at FH #3

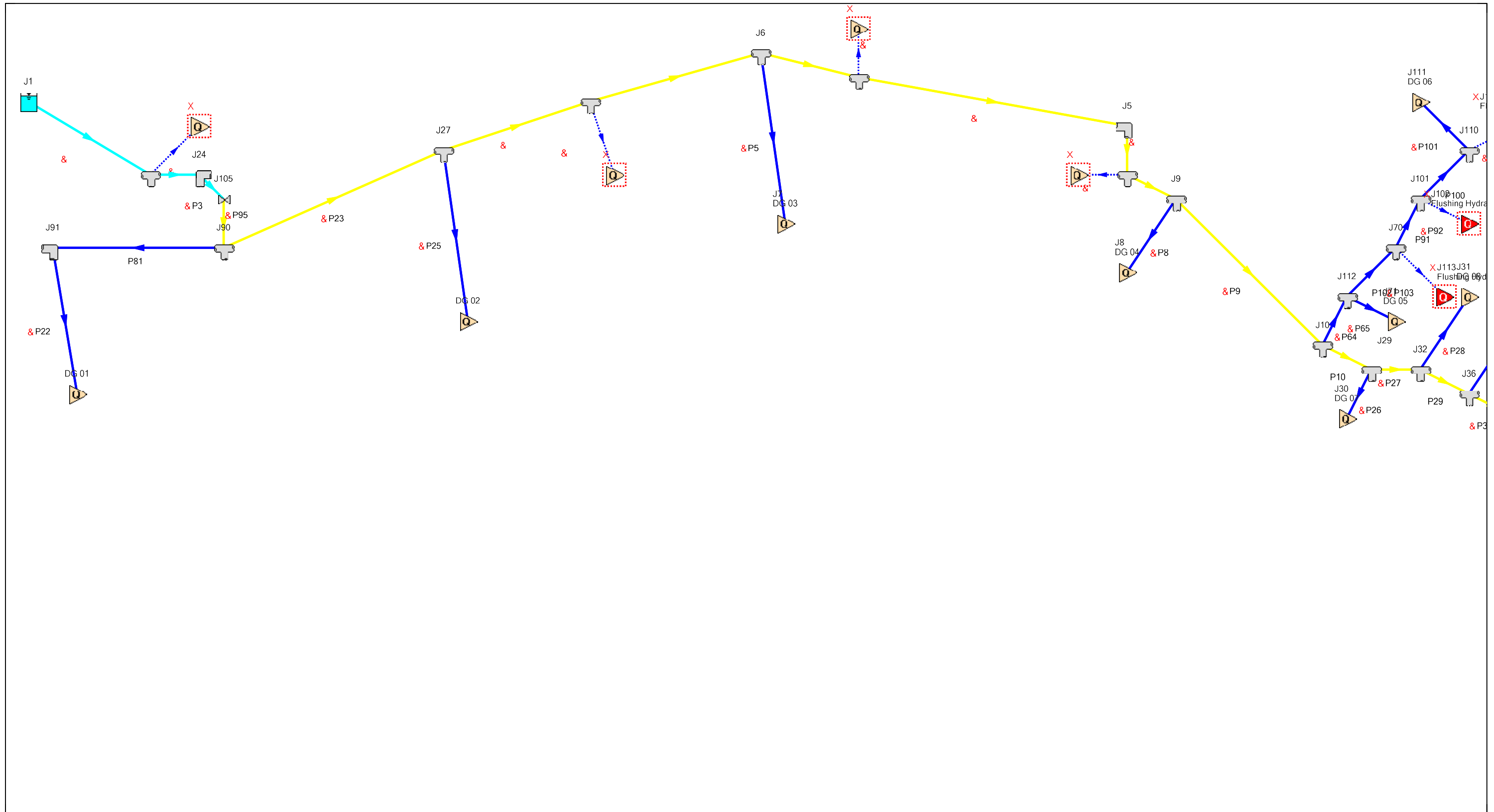


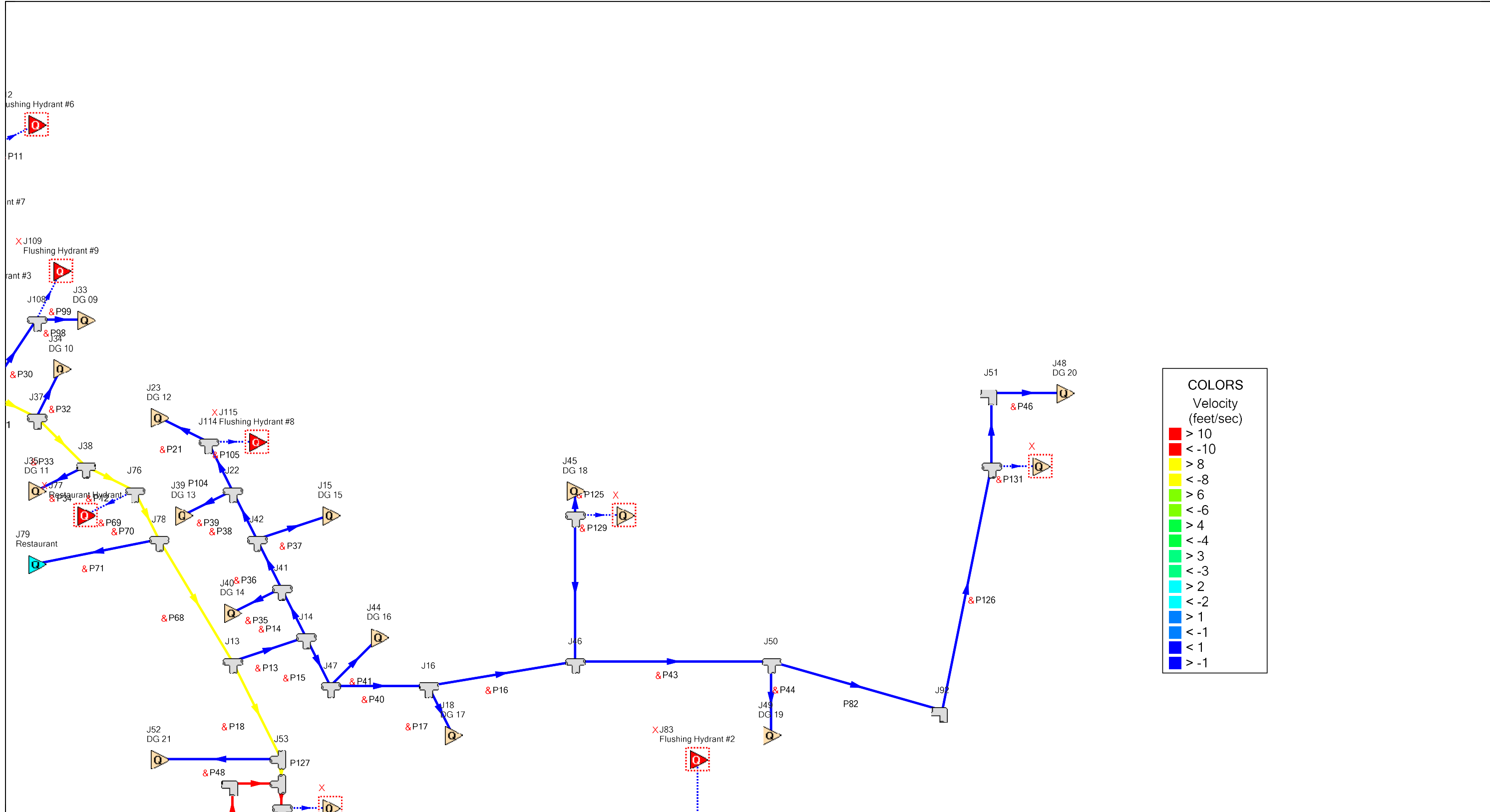


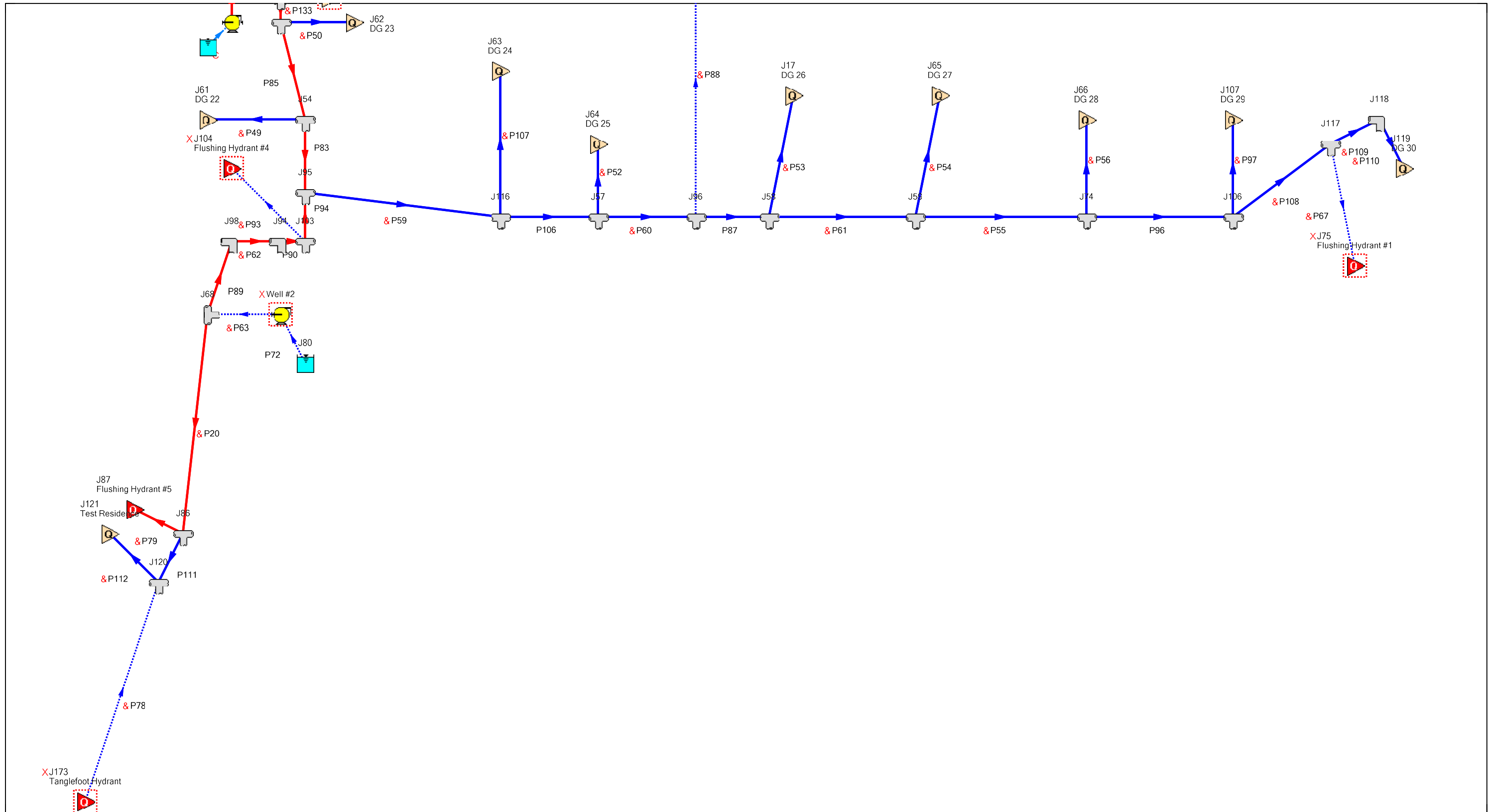
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Velocity (feet/sec)

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Dark Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Cyan	> 3
Dark Cyan	< -3
Light Blue	> 2
Dark Blue	< -2
Very Light Blue	> 1
Very Dark Blue	< -1
Black	> -1

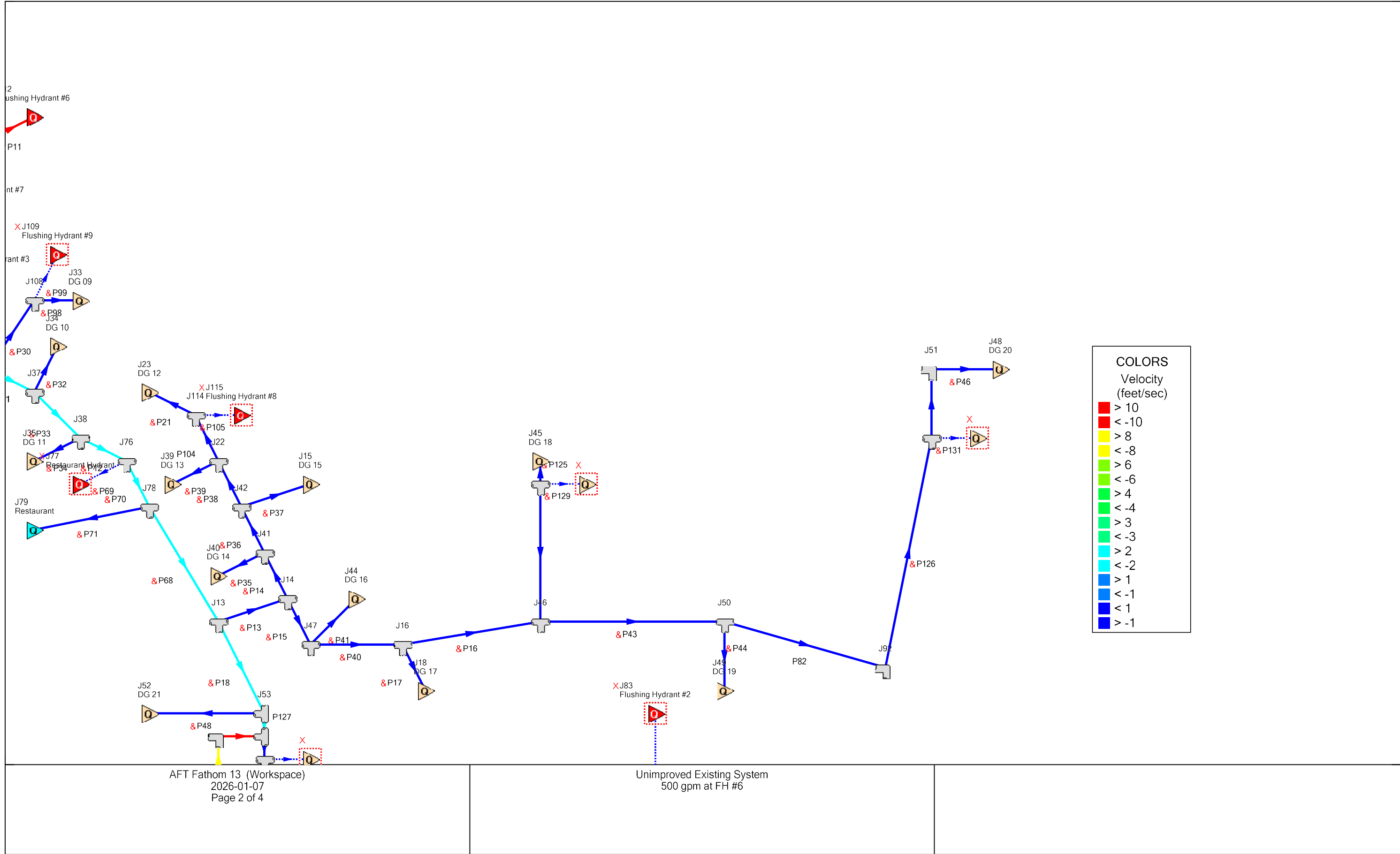










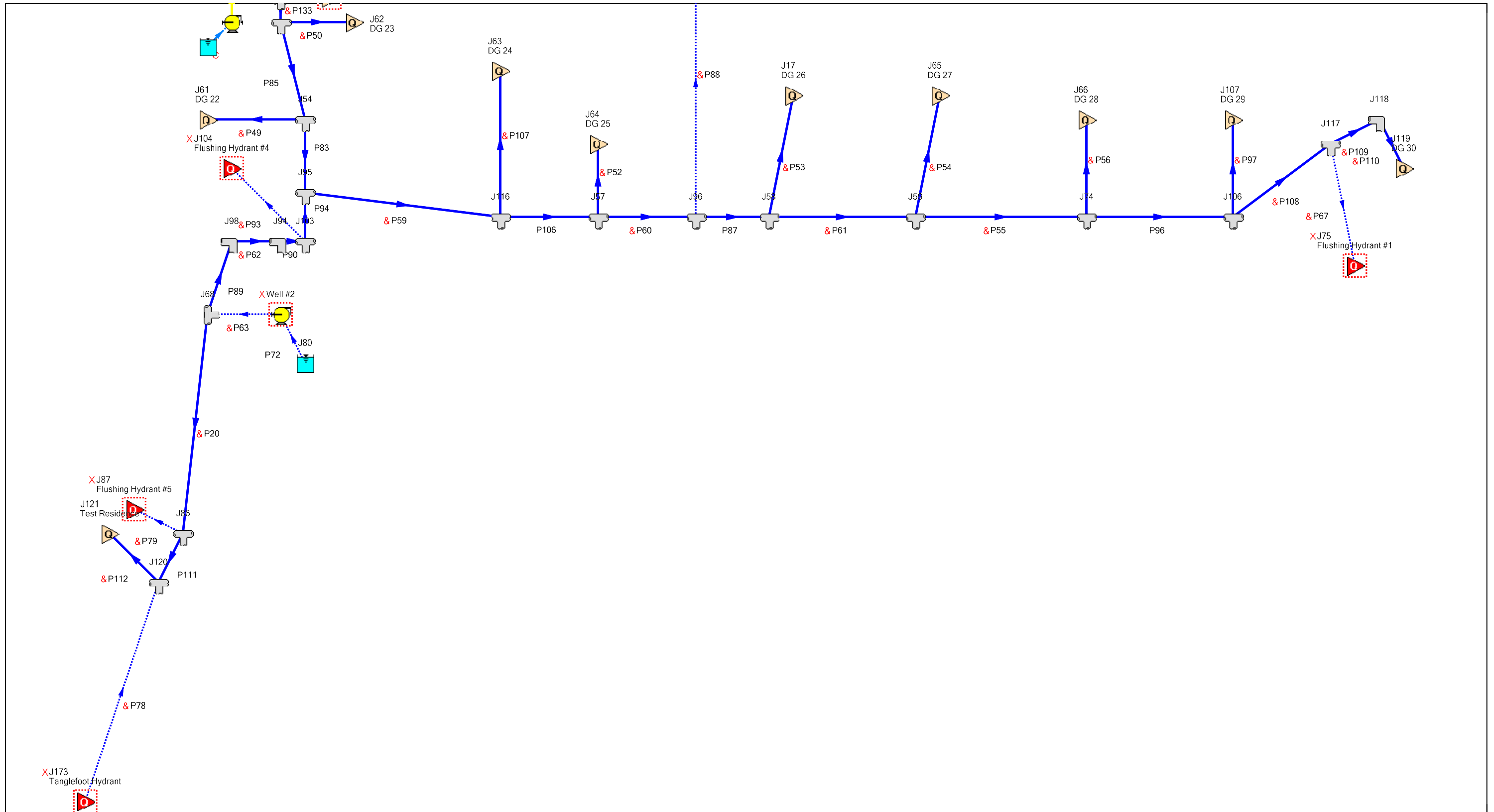


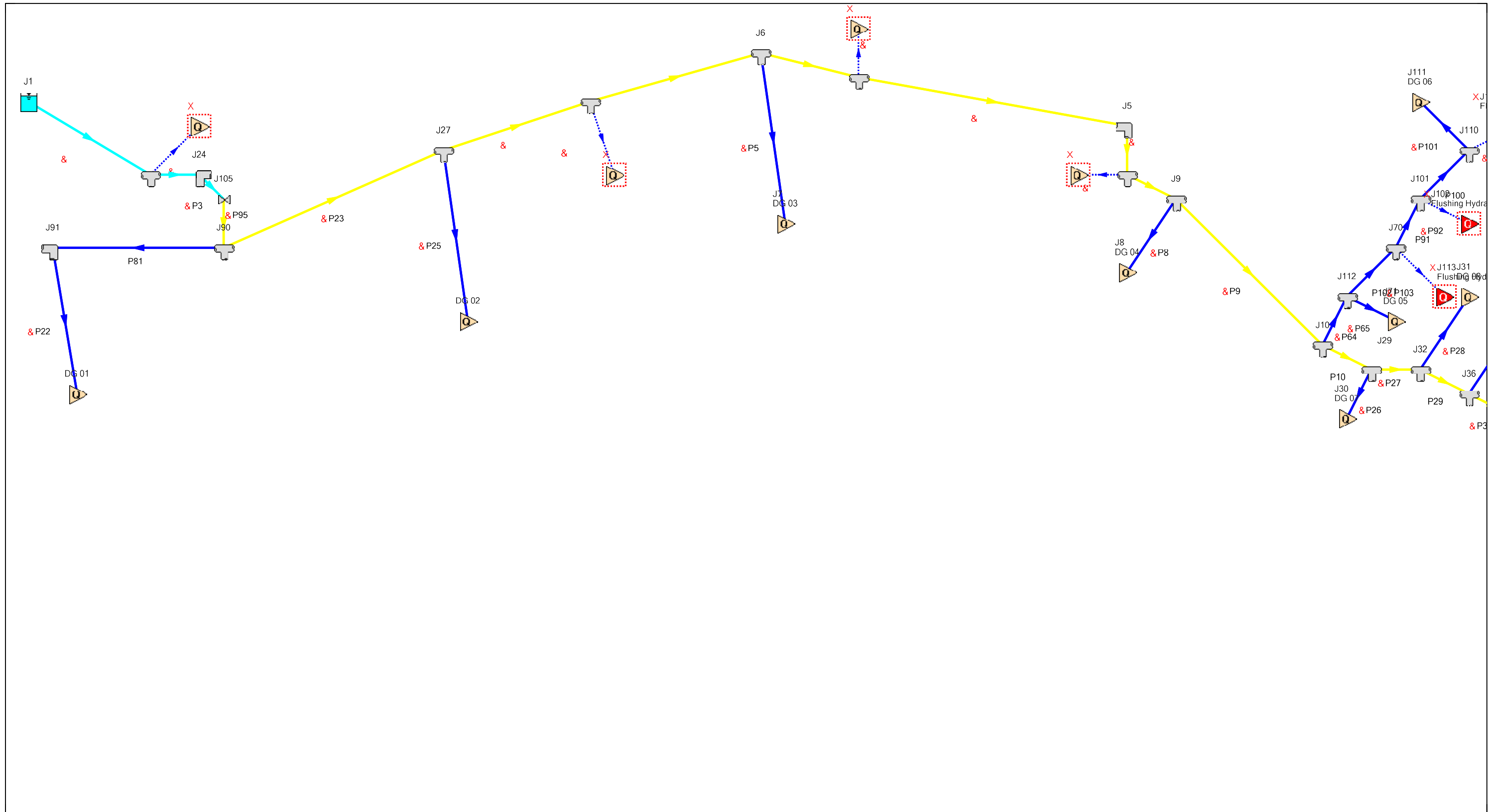
**COLORS**  
Velocity (feet/sec)

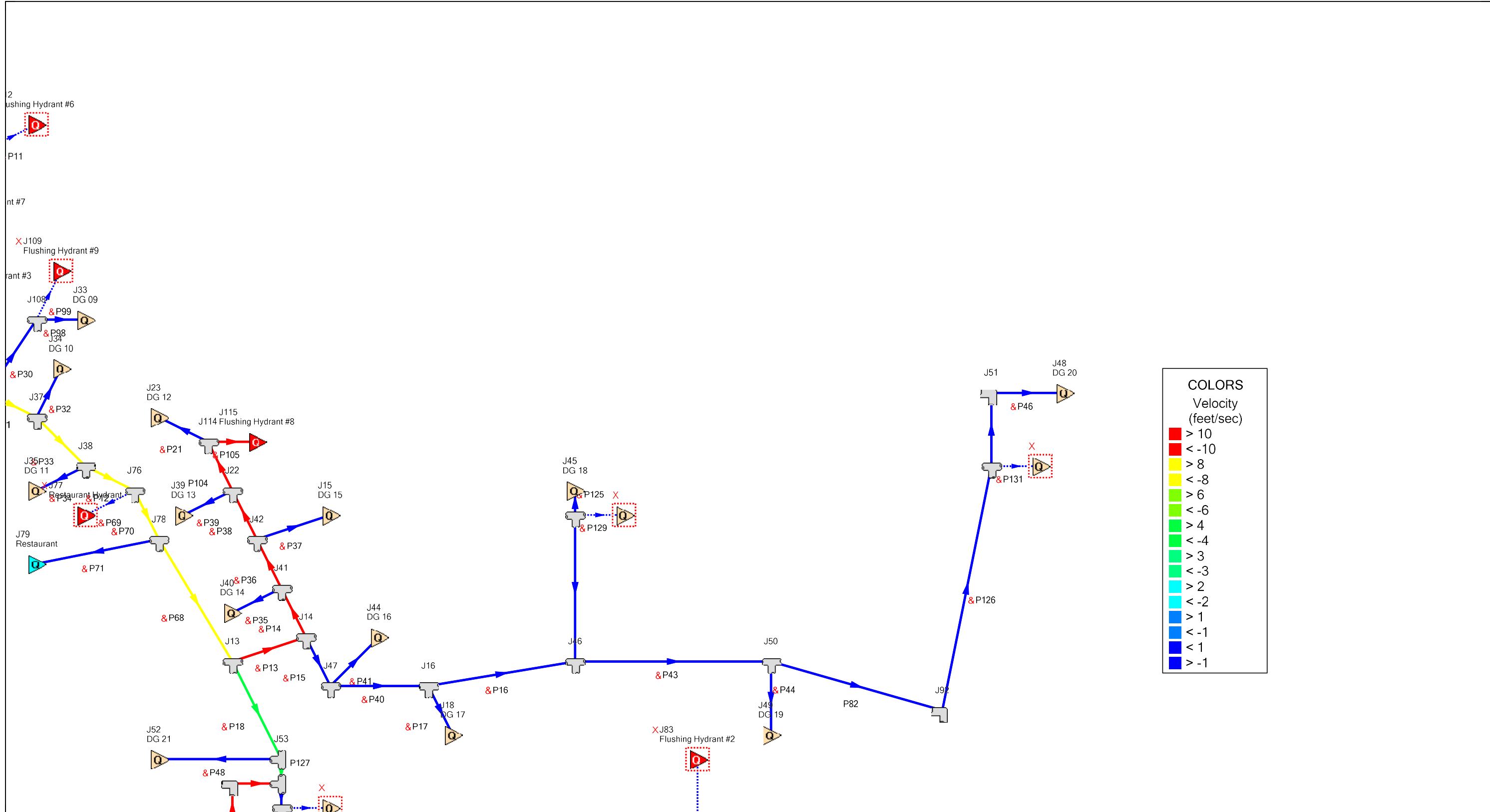
Red	> 10
Dark Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Cyan	> 3
Light Cyan	< -3
Light Blue-Cyan	> 2
Blue-Cyan	< -2
Blue	> 1
Dark Blue	< -1
Very Dark Blue	> -1

AFT Fathom 13 (Workspace)  
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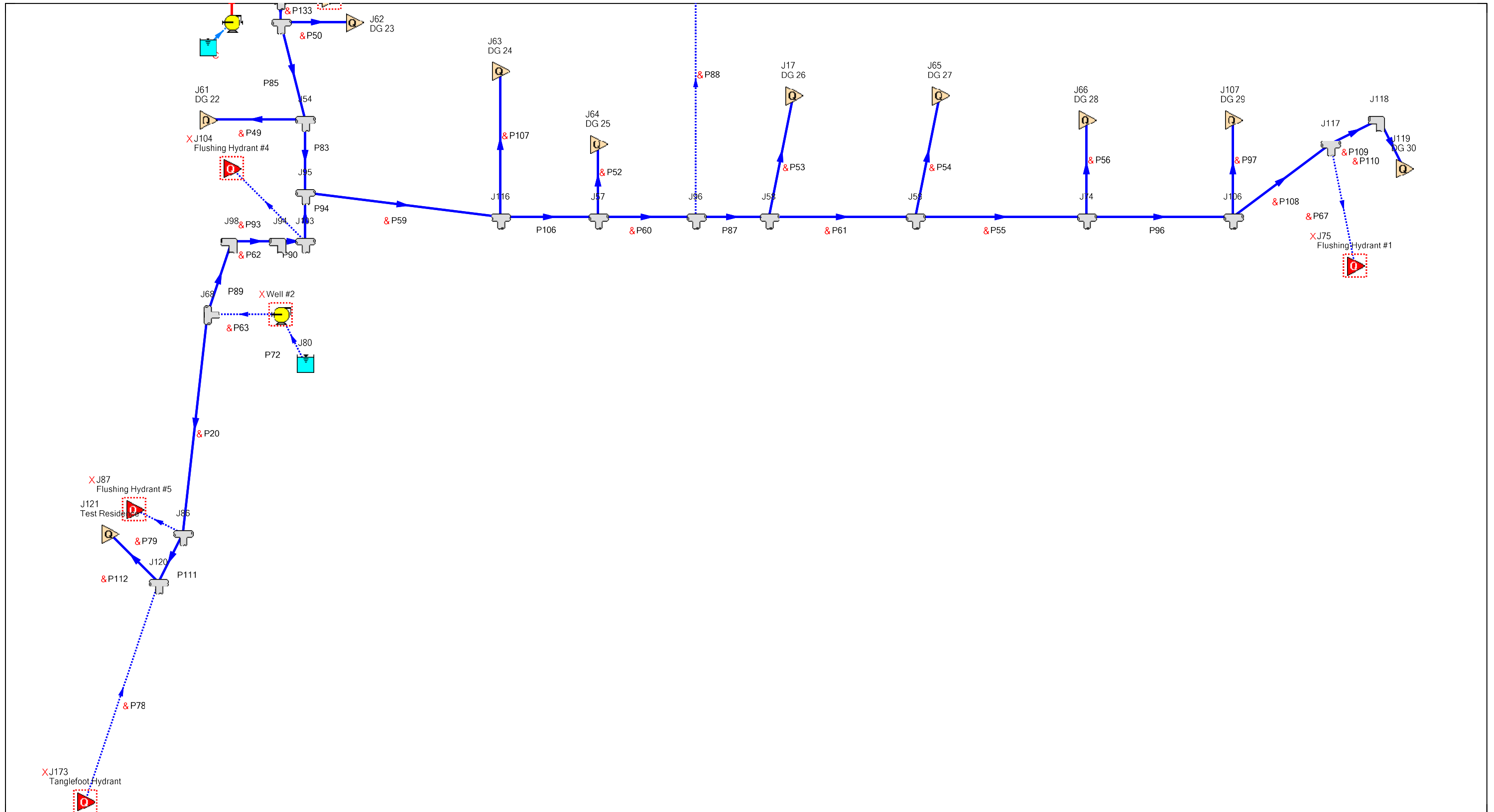
Unimproved Existing System  
500 gpm at FH #6





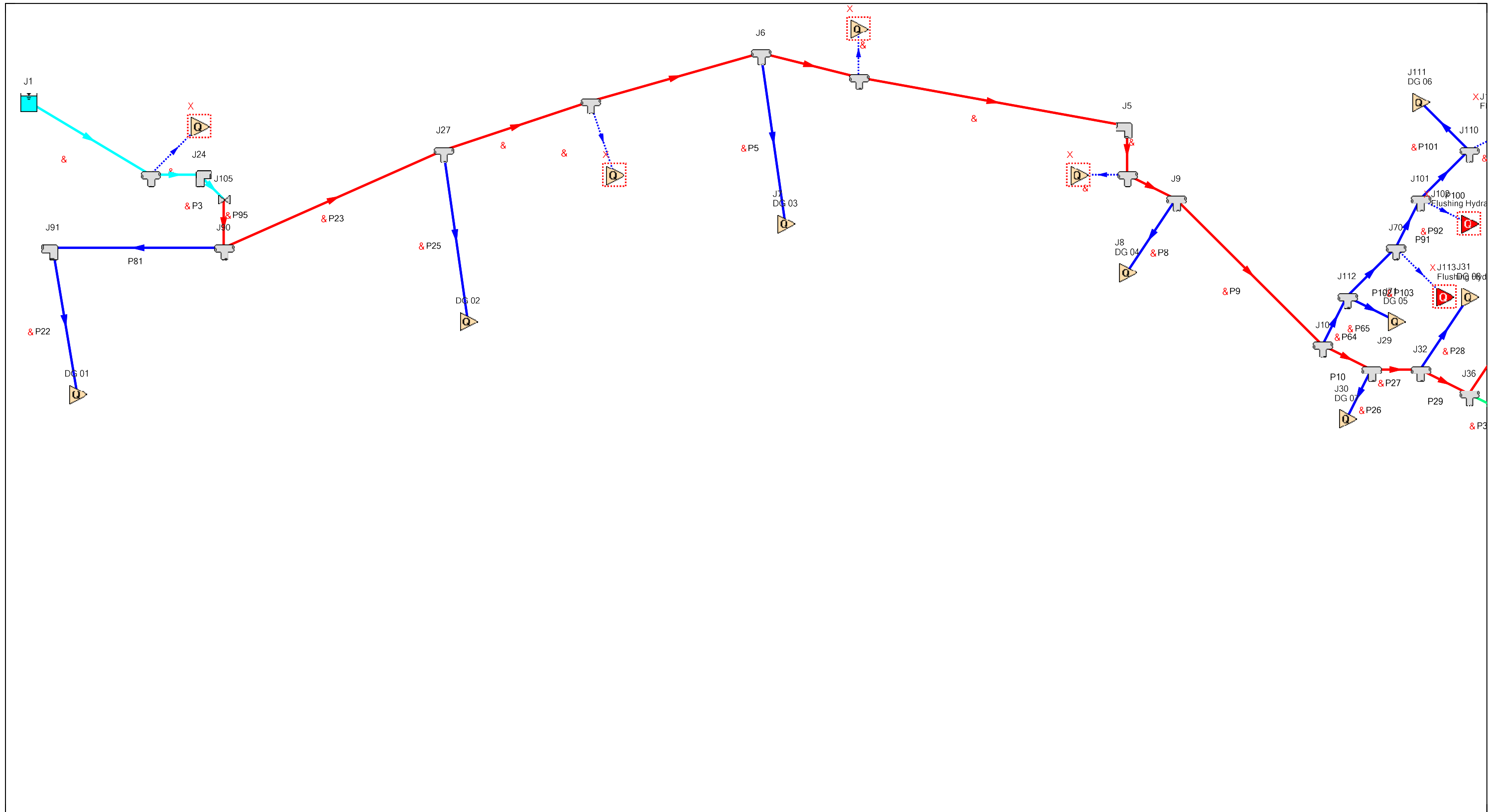


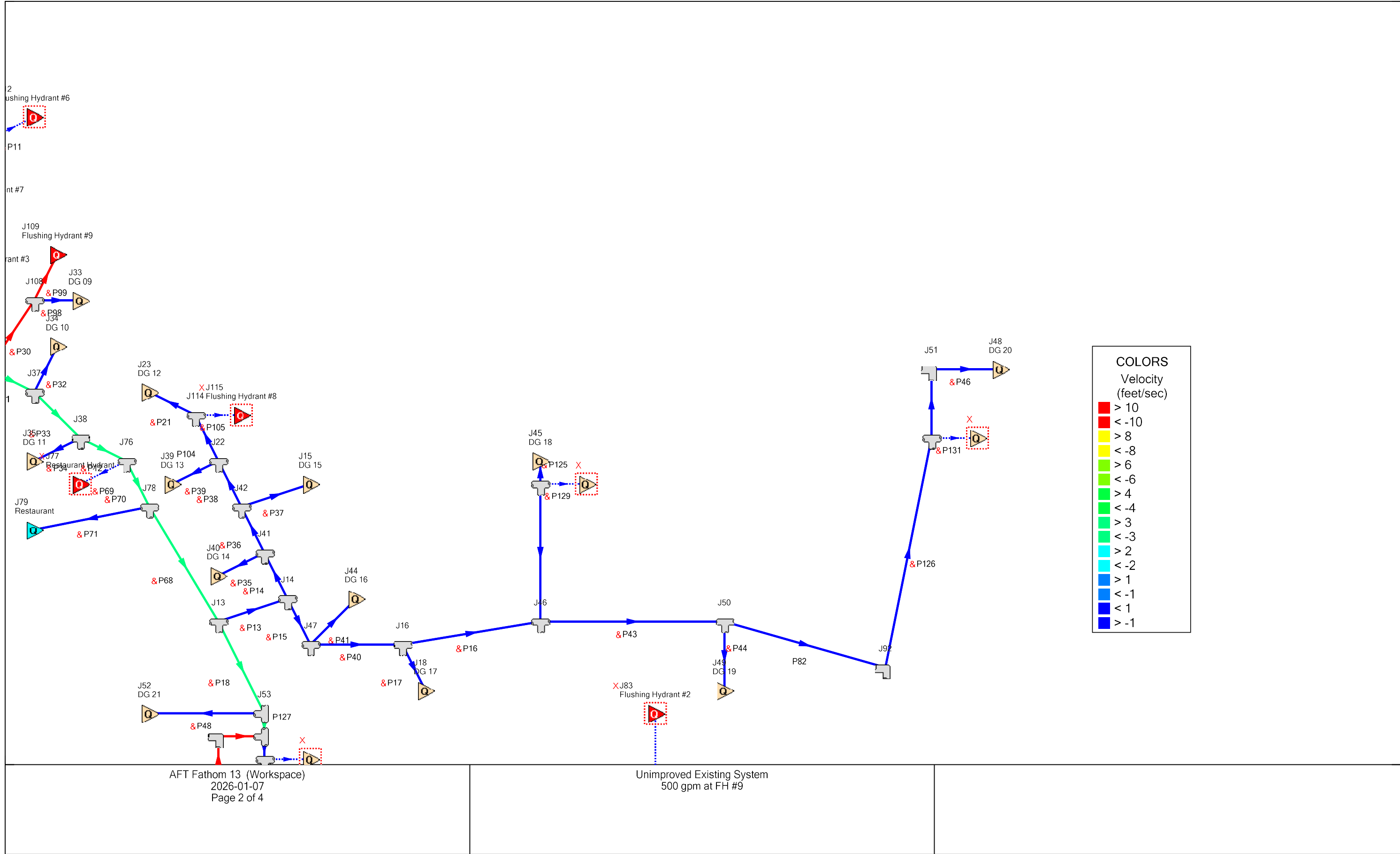
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Velocity (feet/sec)	
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Red	< -10
Yellow	> 8
Light Green	< -8
Green	> 6
Light Blue	< -6
Medium Green	> 4
Dark Green	< -4
Light Cyan	> 3
Medium Cyan	< -3
Light Blue	> 2
Medium Blue	< -2
Dark Blue	> 1
Very Dark Blue	< -1
Black	> -1

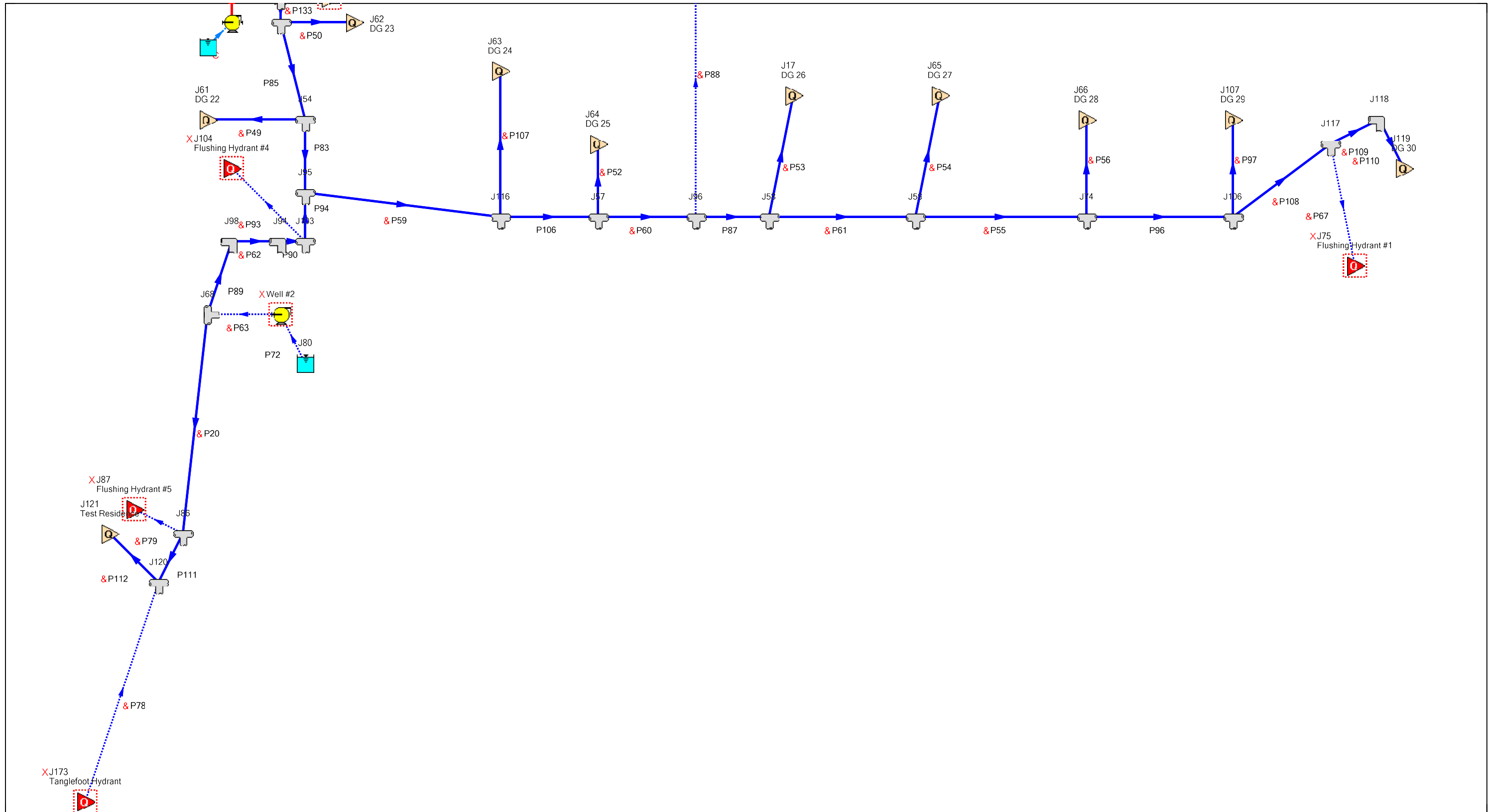


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Unimproved Existing System  
 500 gpm at FH #8

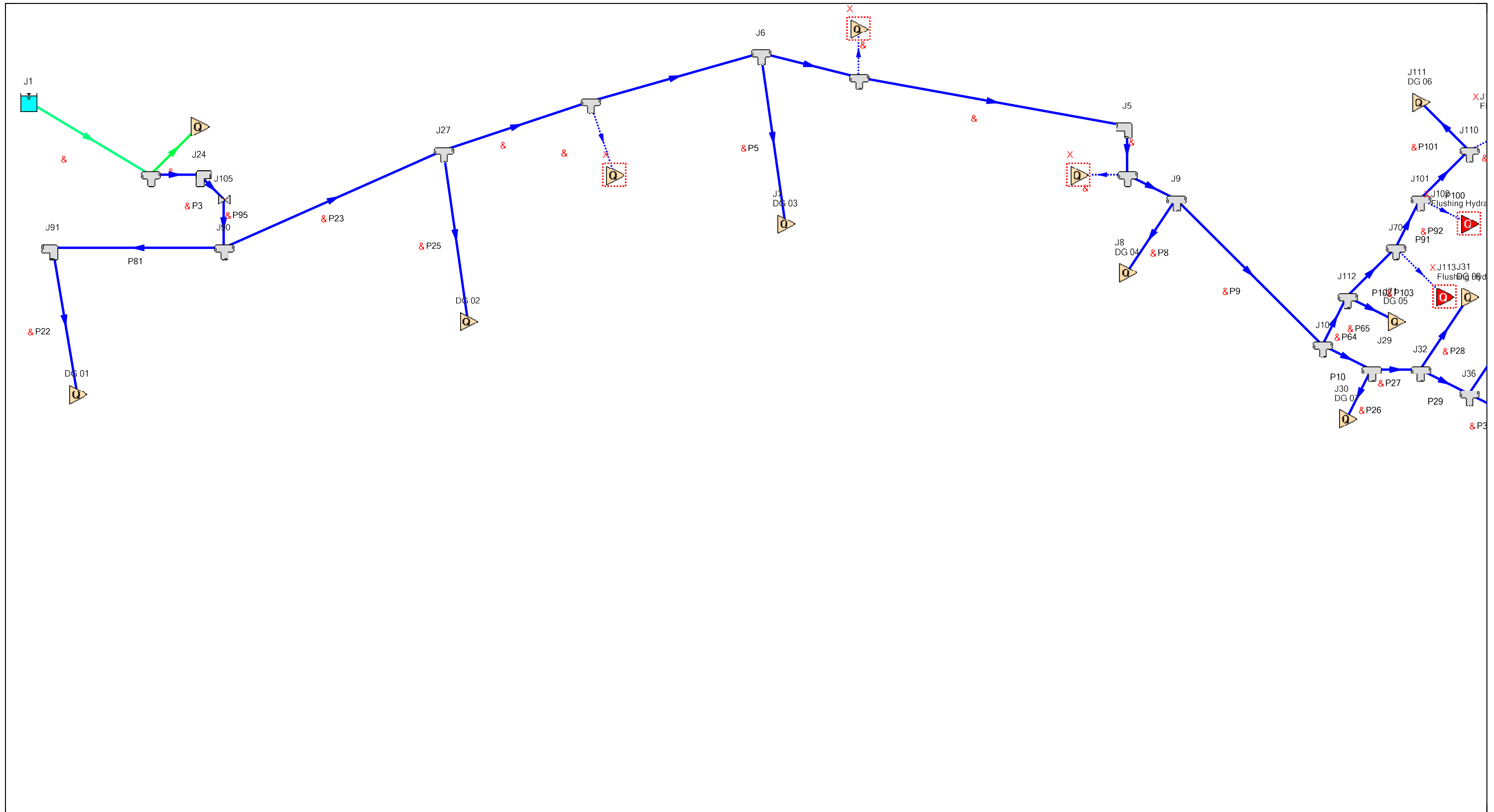


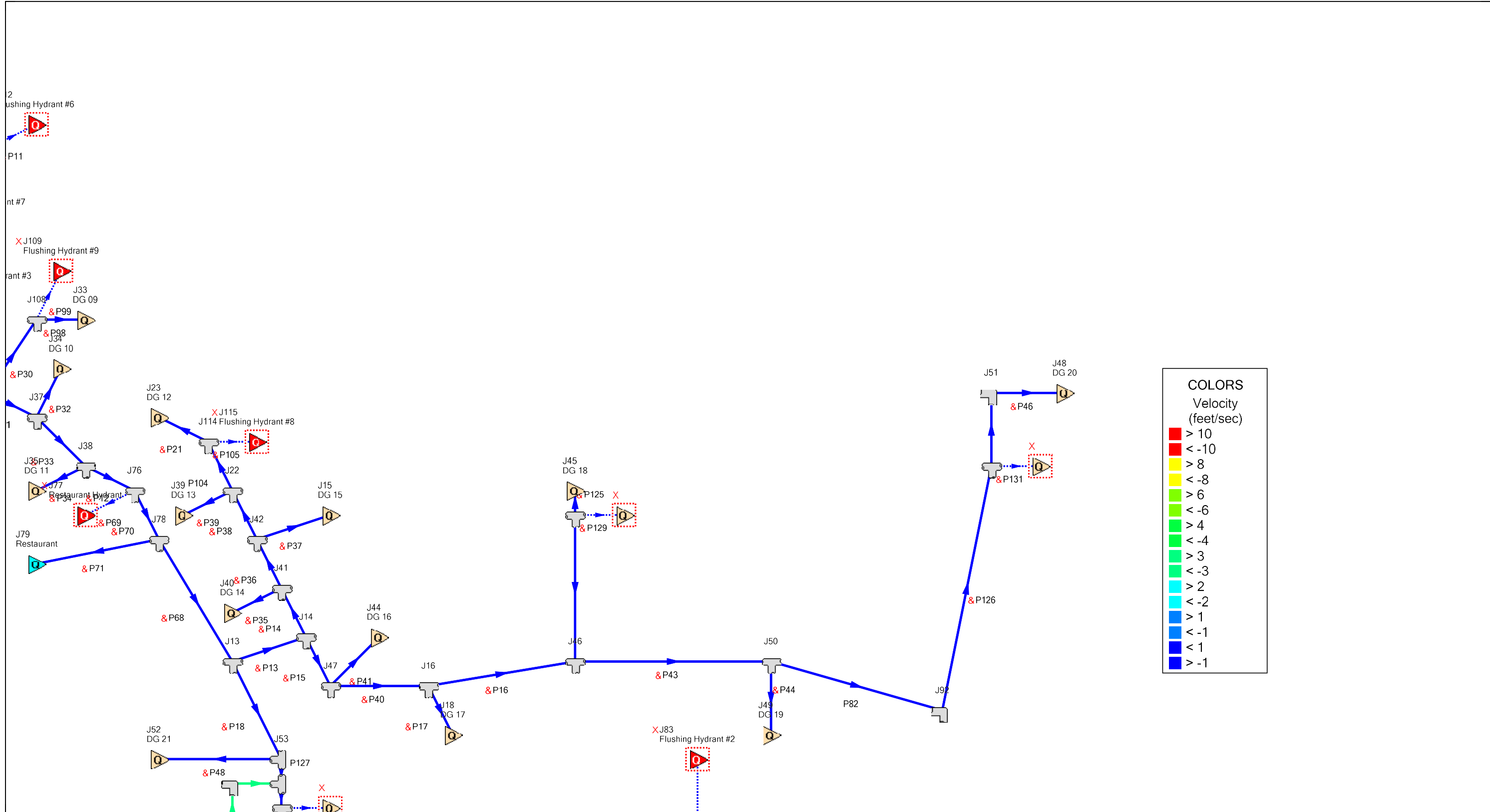




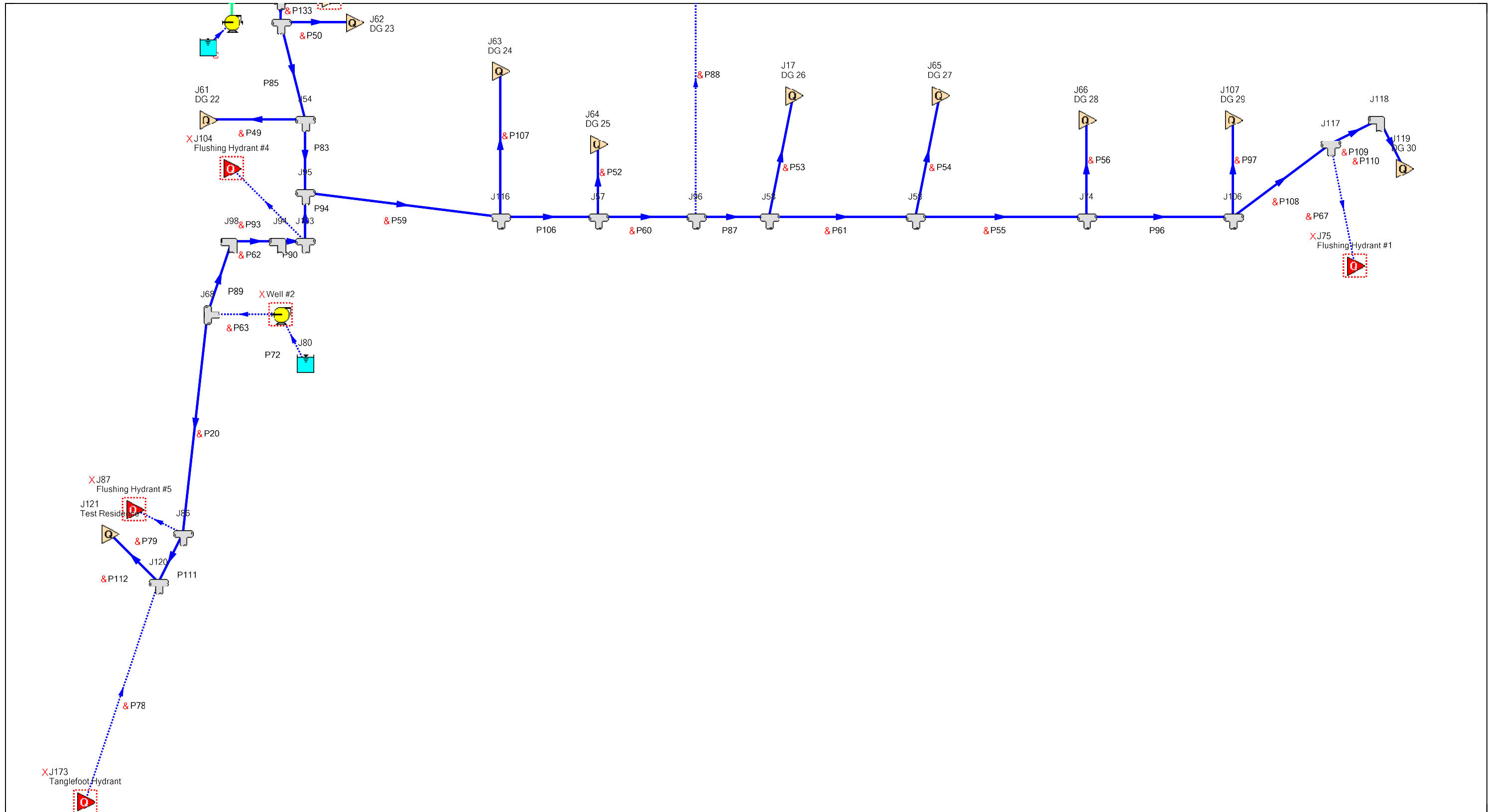
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Unimproved Existing System  
 500 gpm at FH #9



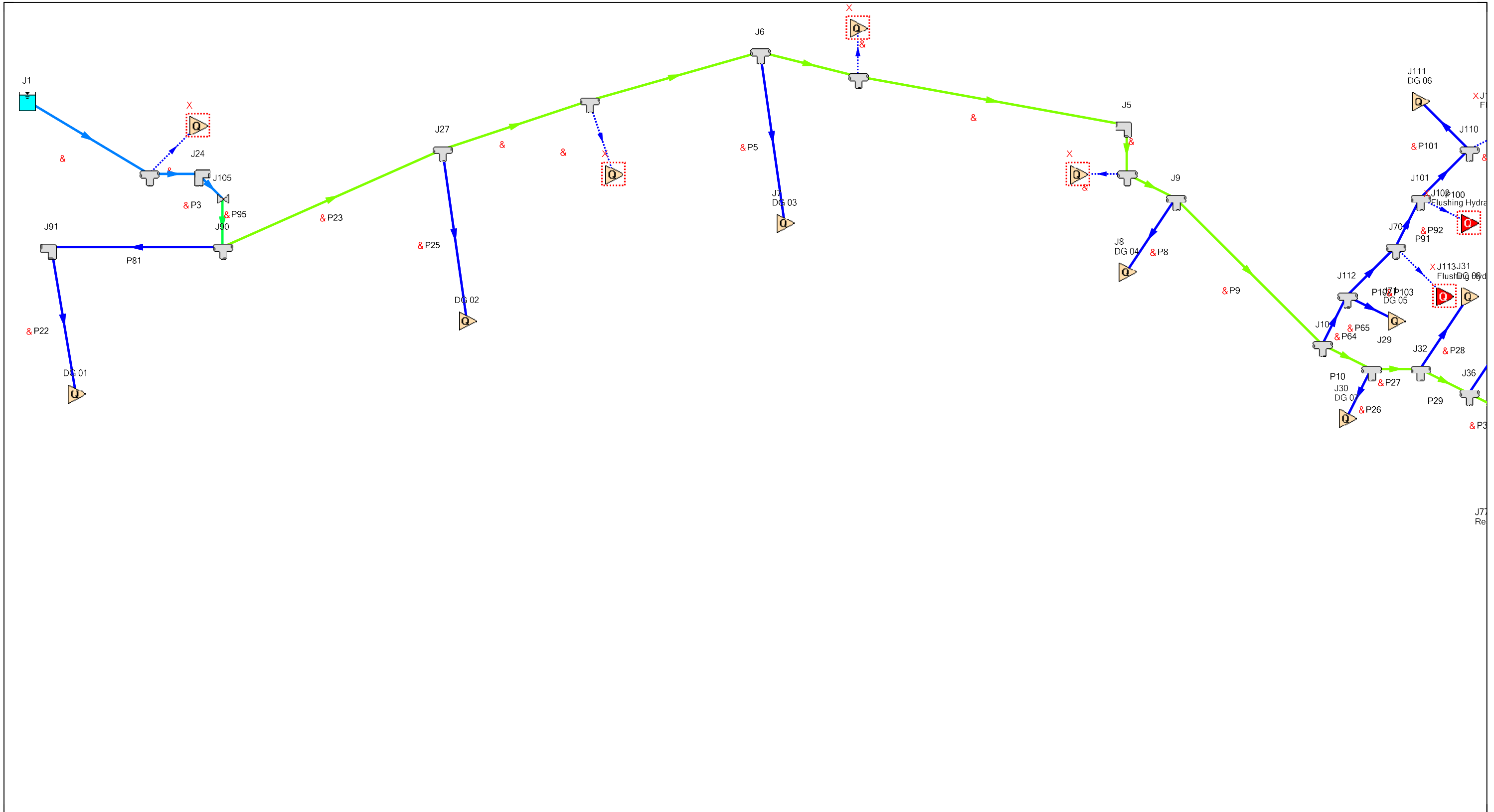


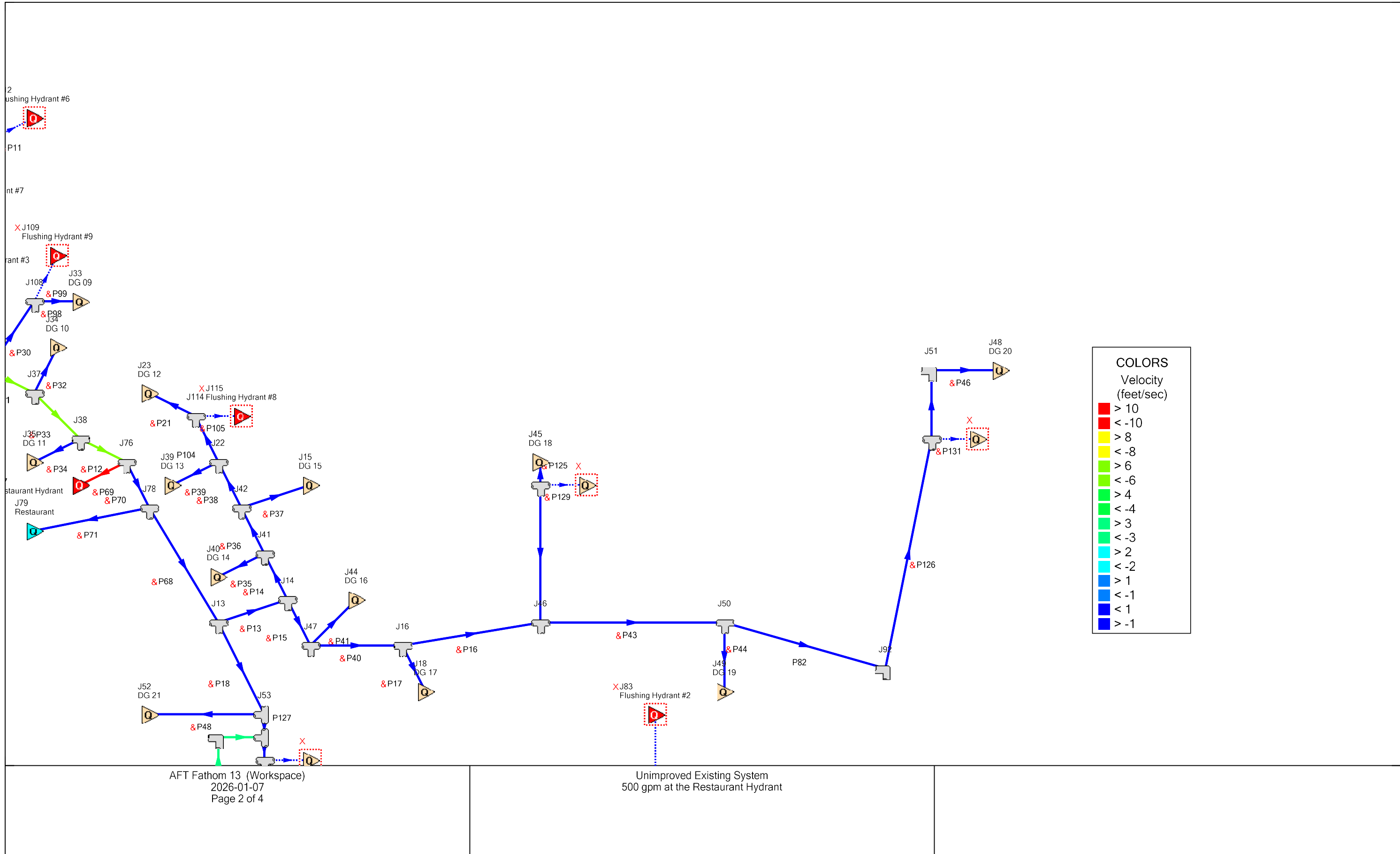
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Velocity (feet/sec)	
Dark Red	> 10
Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Bright Green	> 4
Light Cyan	< -4
Cyan	> 3
Light Blue	< -3
Blue	> 2
Dark Blue	< -2
Very Dark Blue	> 1
Black	< -1
Dark Blue	> -1
Black	< -1
Dark Blue	> -1

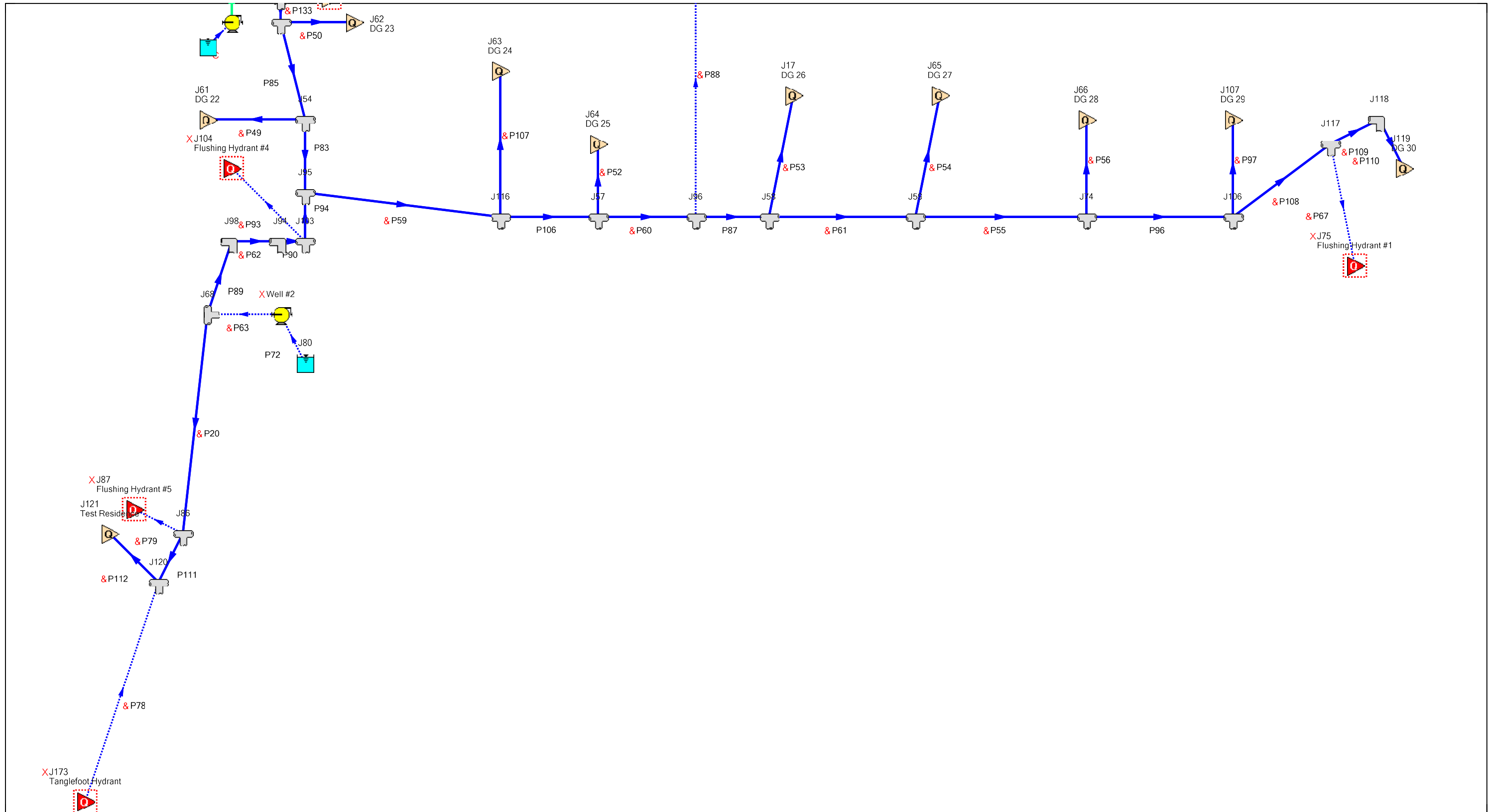


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Unimproved Existing System  
 500 gpm at FH #10

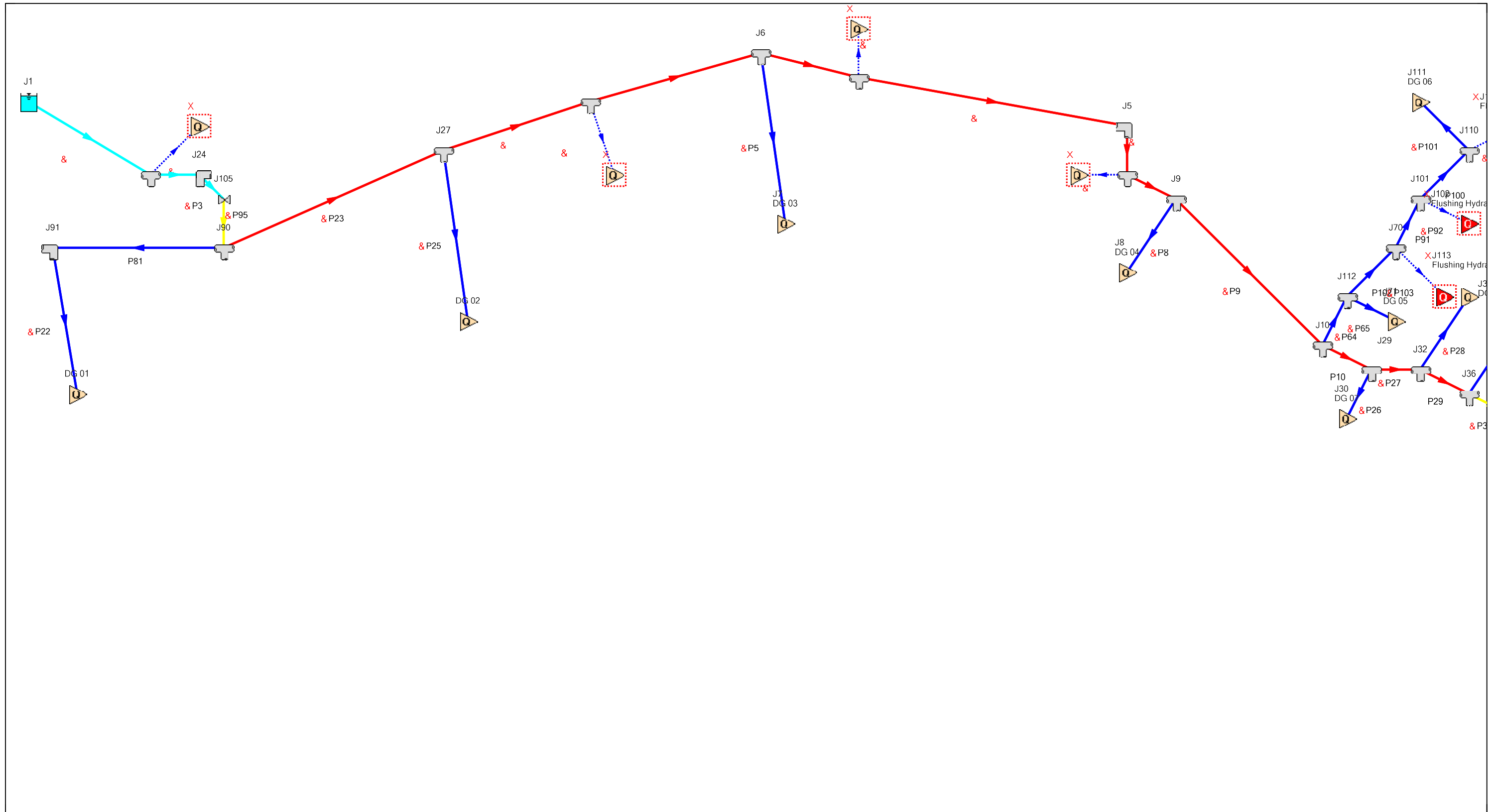


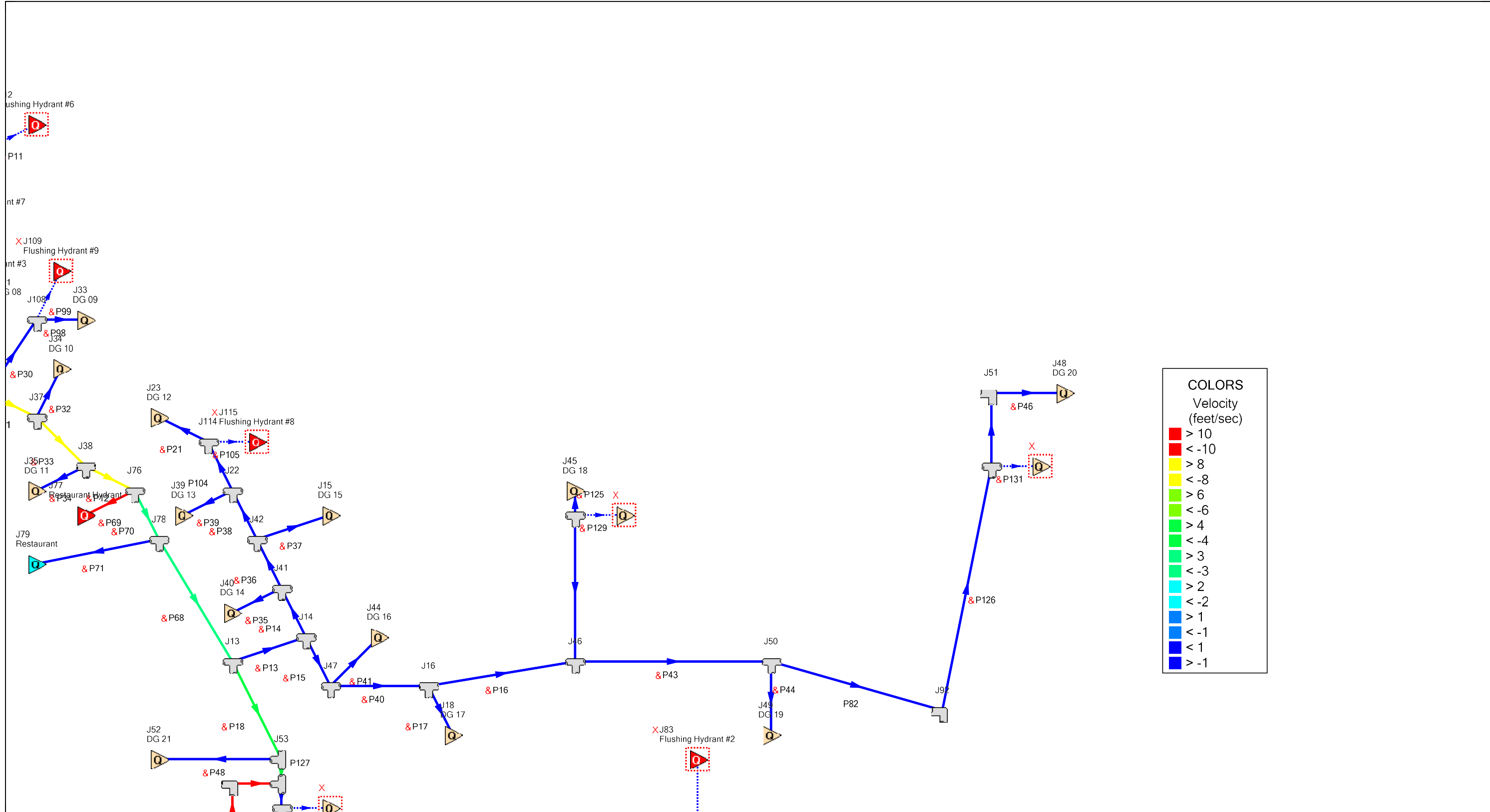




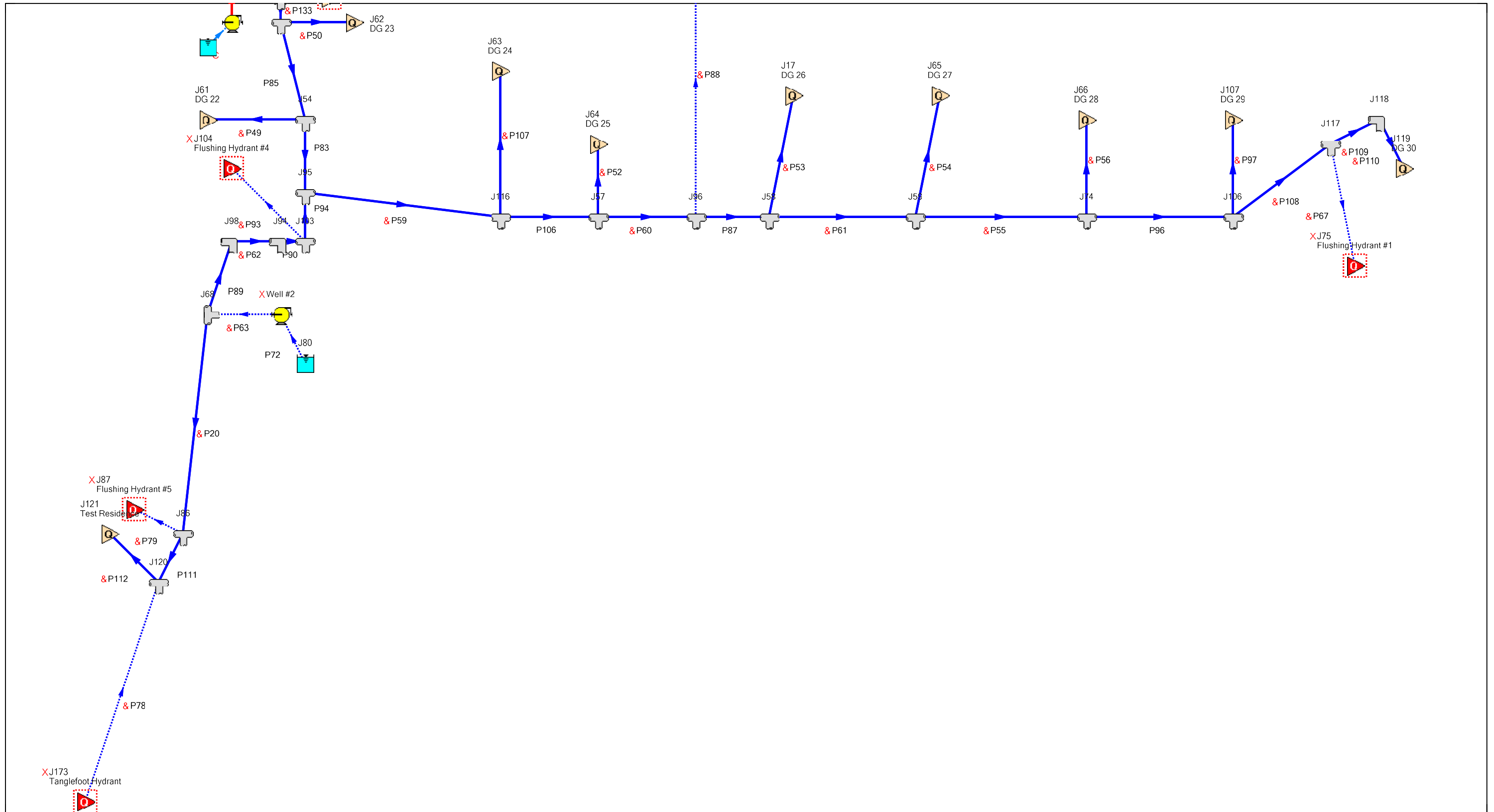
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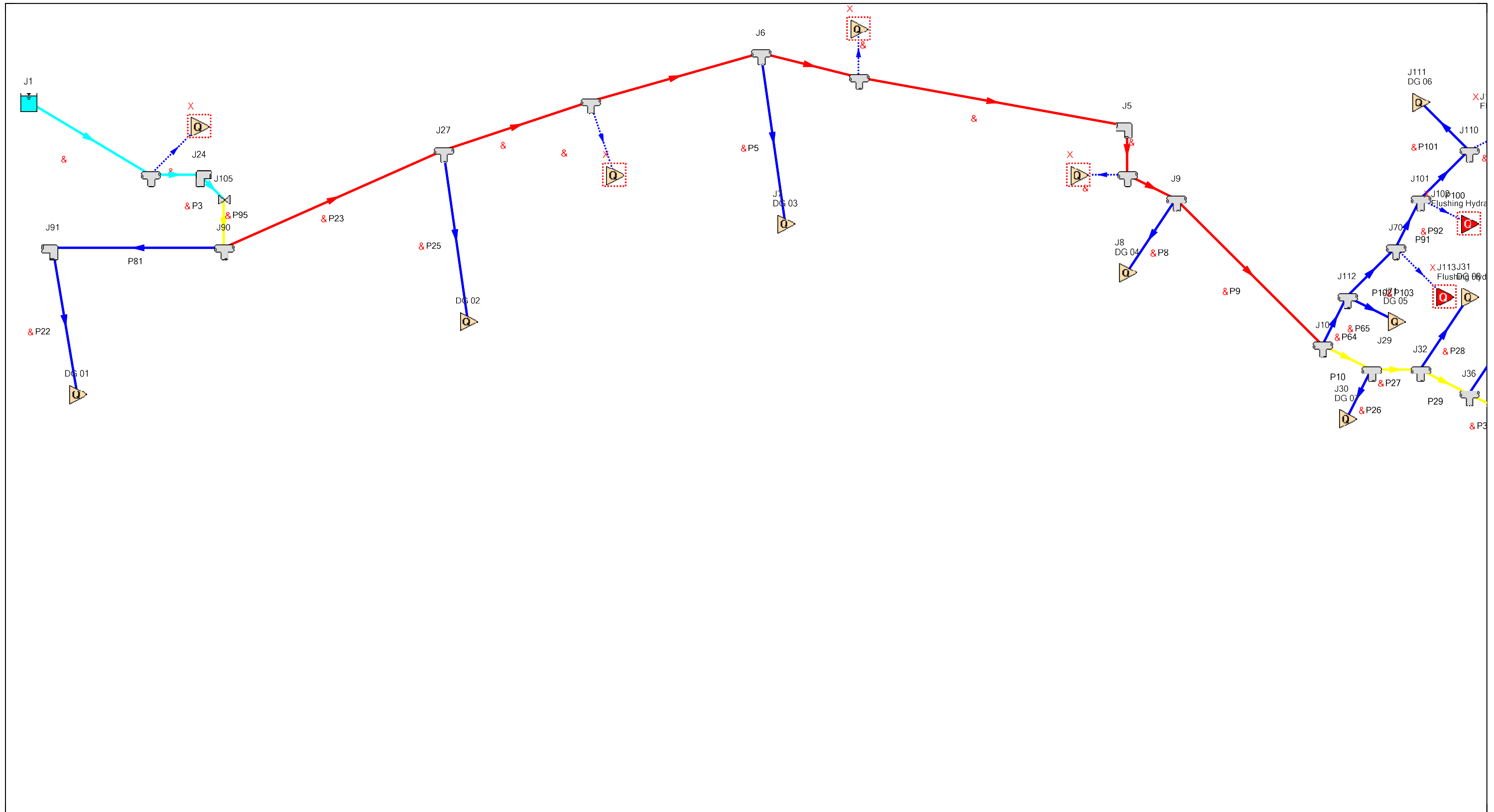
Unimproved Existing System  
 500 gpm at the Restaurant Hydrant



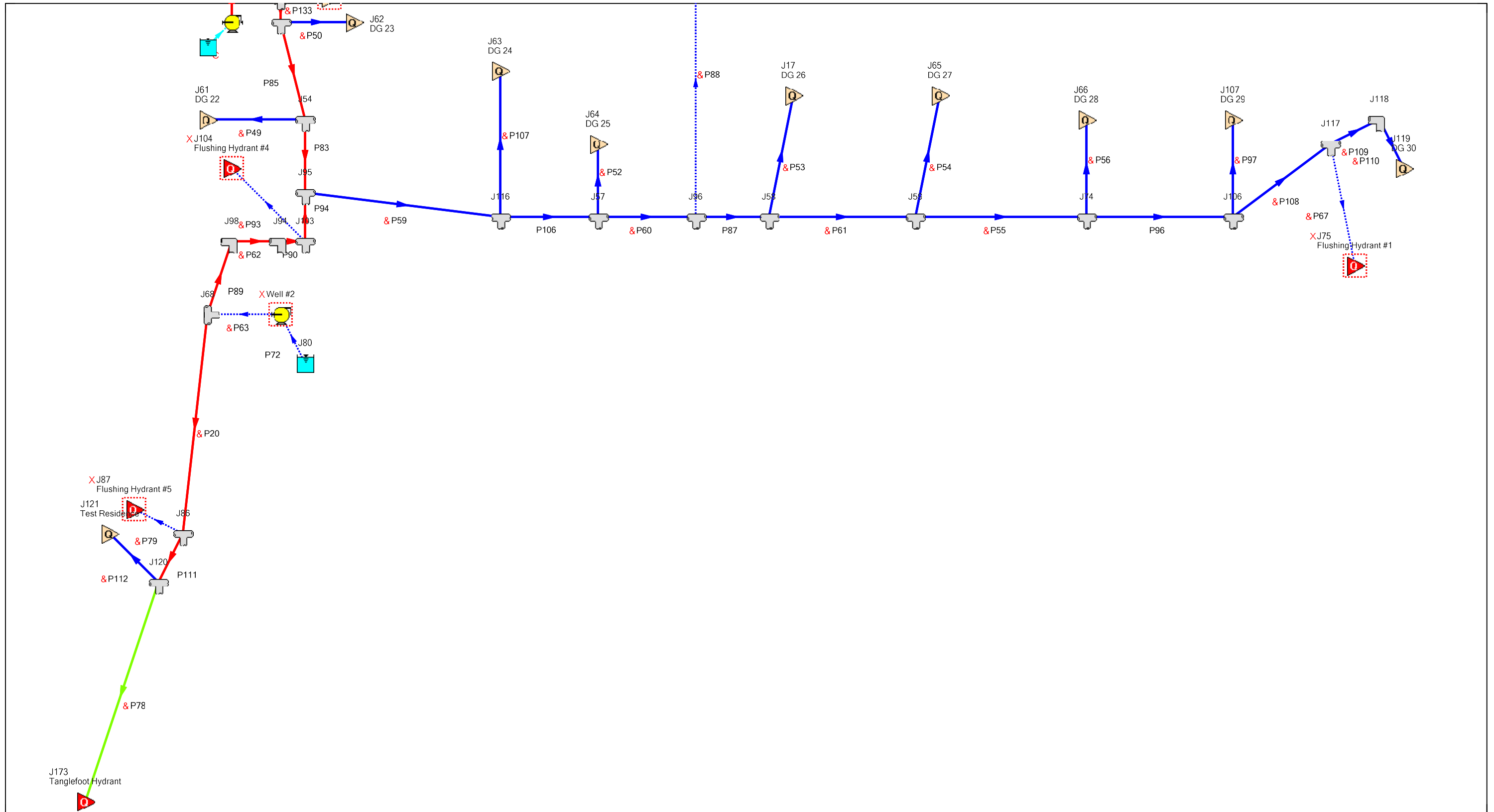


COLORS	
Velocity (feet/sec)	
Dark Red	> 10
Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Light Cyan	> 3
Cyan	< -3
Light Blue	> 2
Blue	< -2
Dark Blue	> 1
Very Dark Blue	< -1
Black	> -1





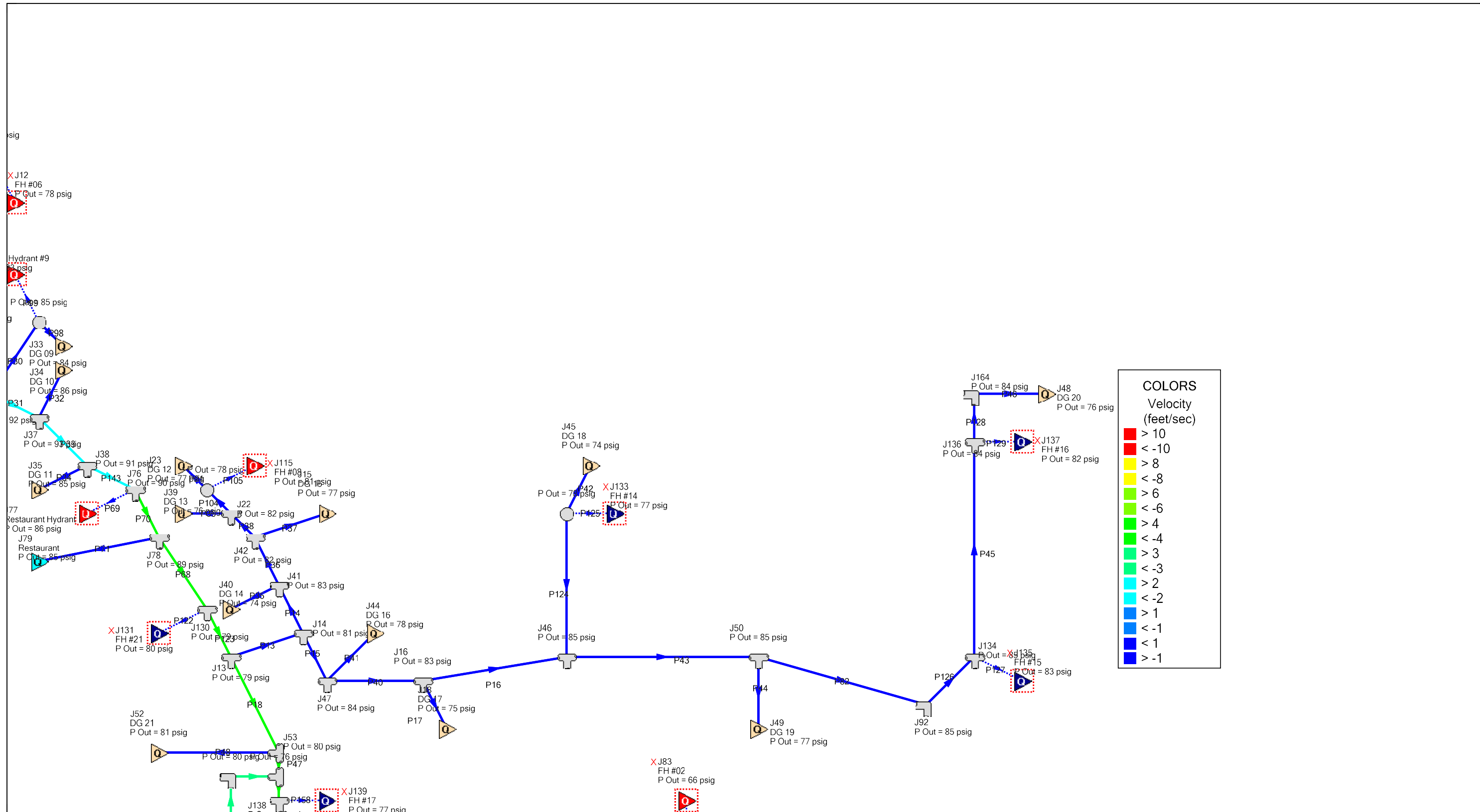




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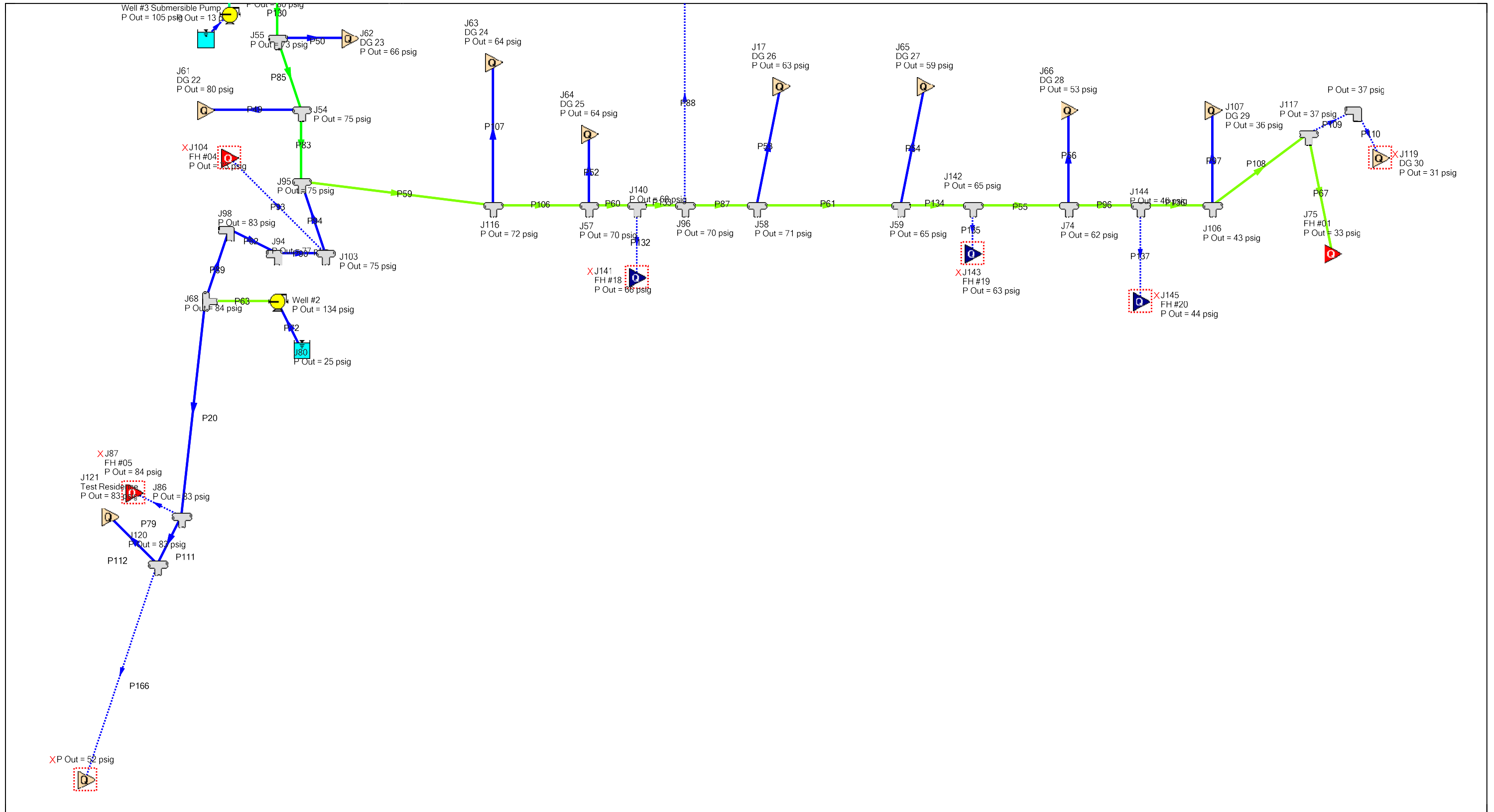
Unimproved Existing System  
 600 gpm at the Restaurant Hydrant

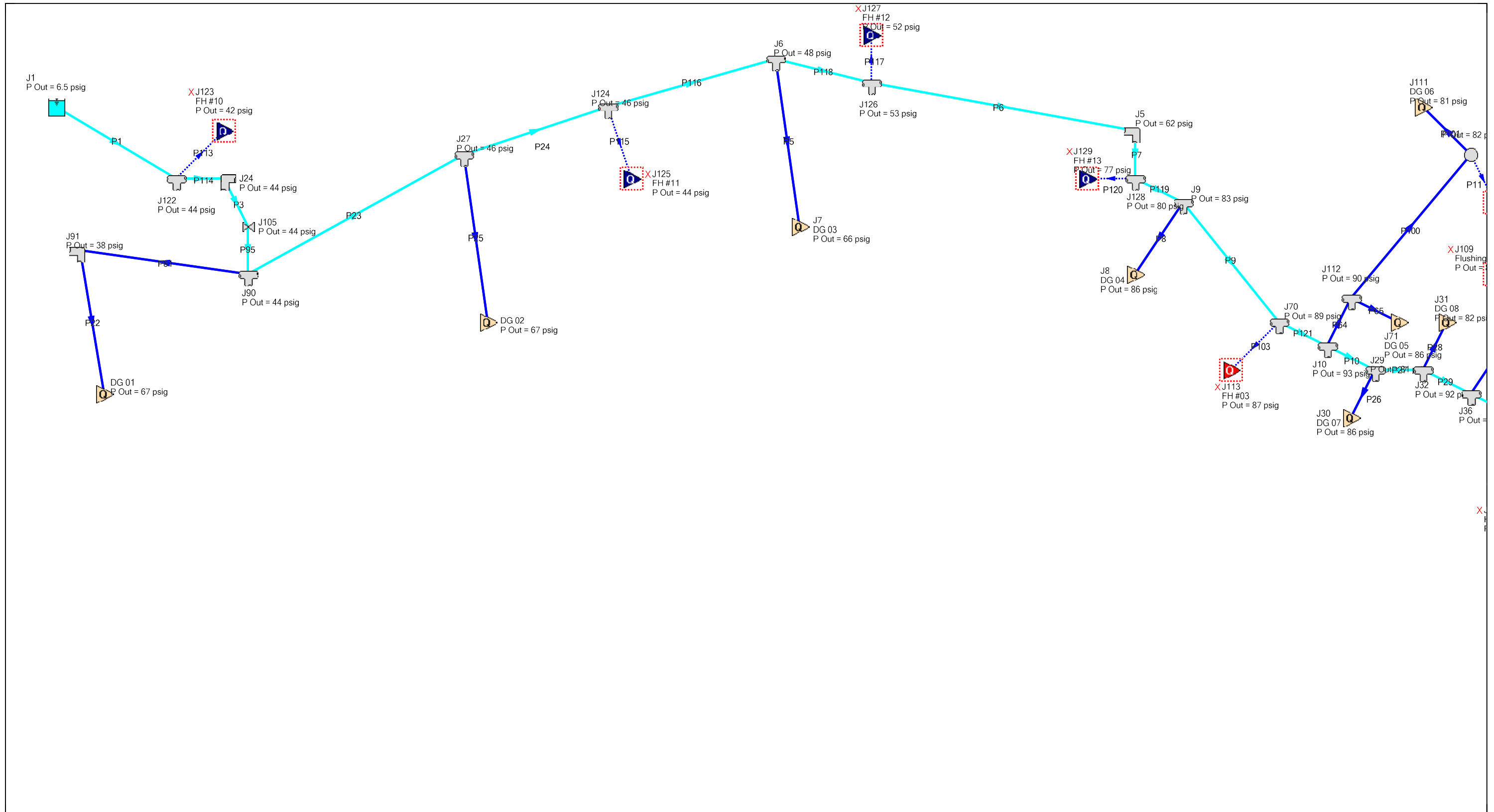


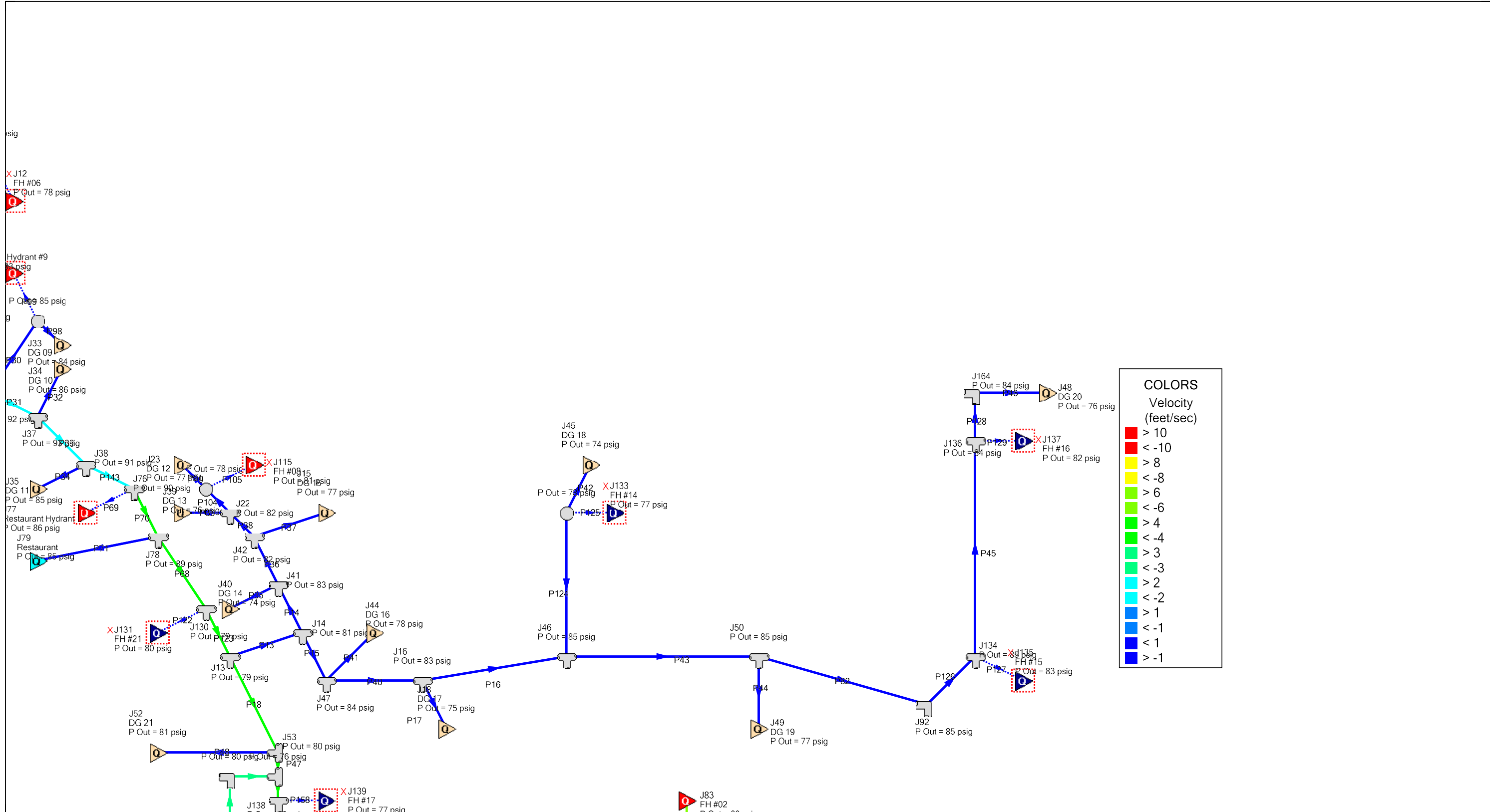


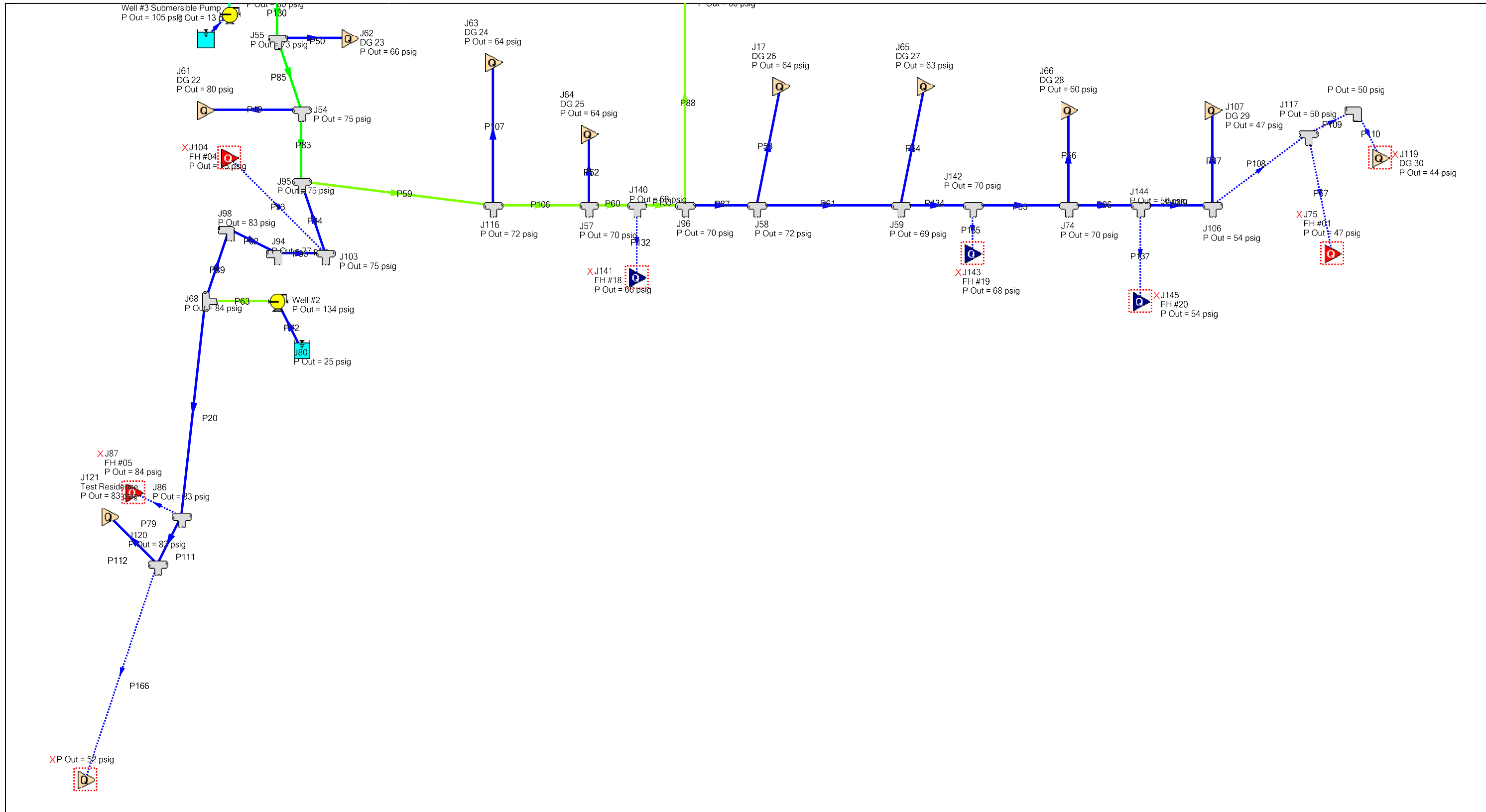
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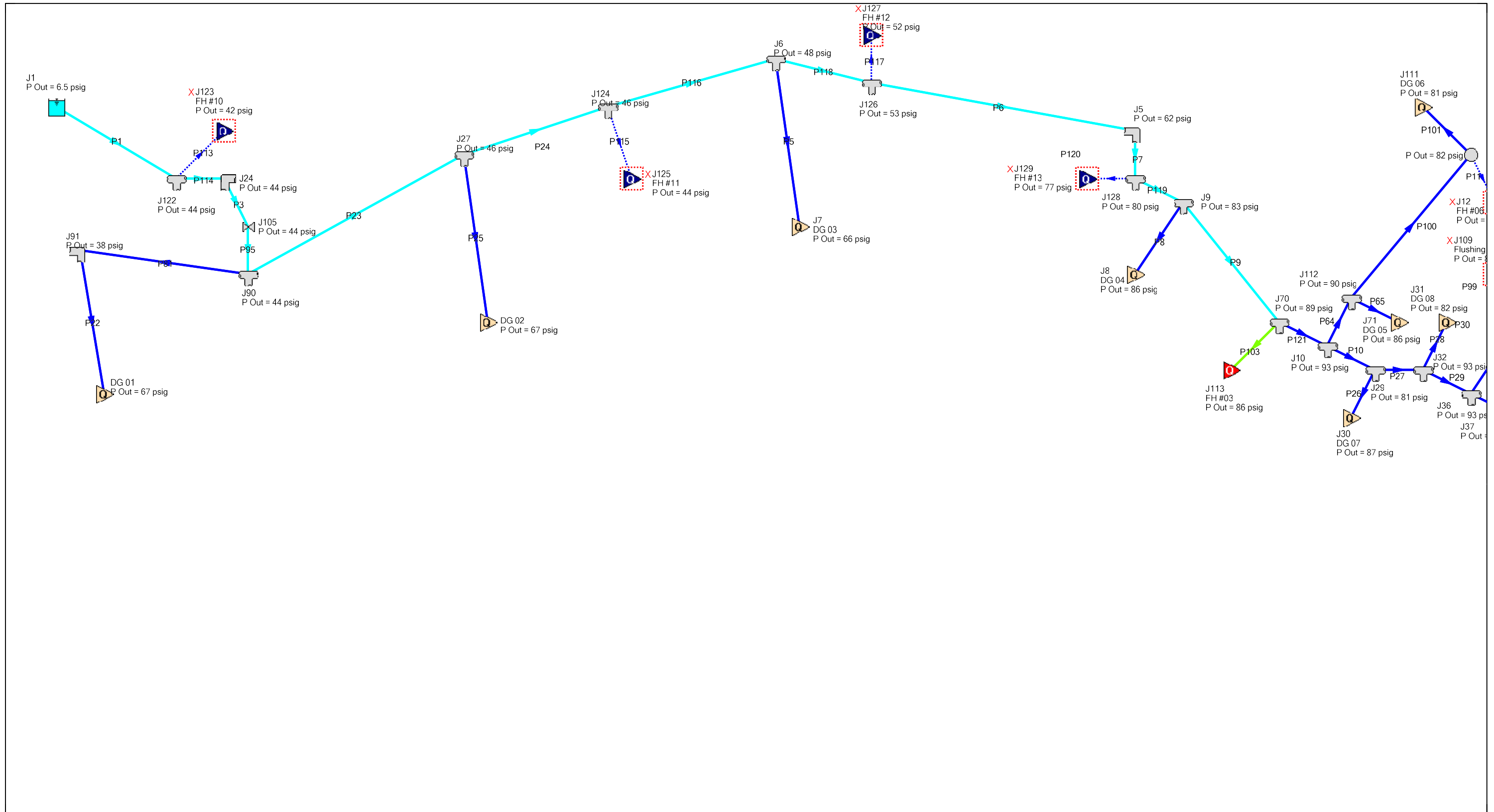
Future Upgrades to Existing Alignments  
 No Pipe Loop Additions  
 500 gpm at FH #1

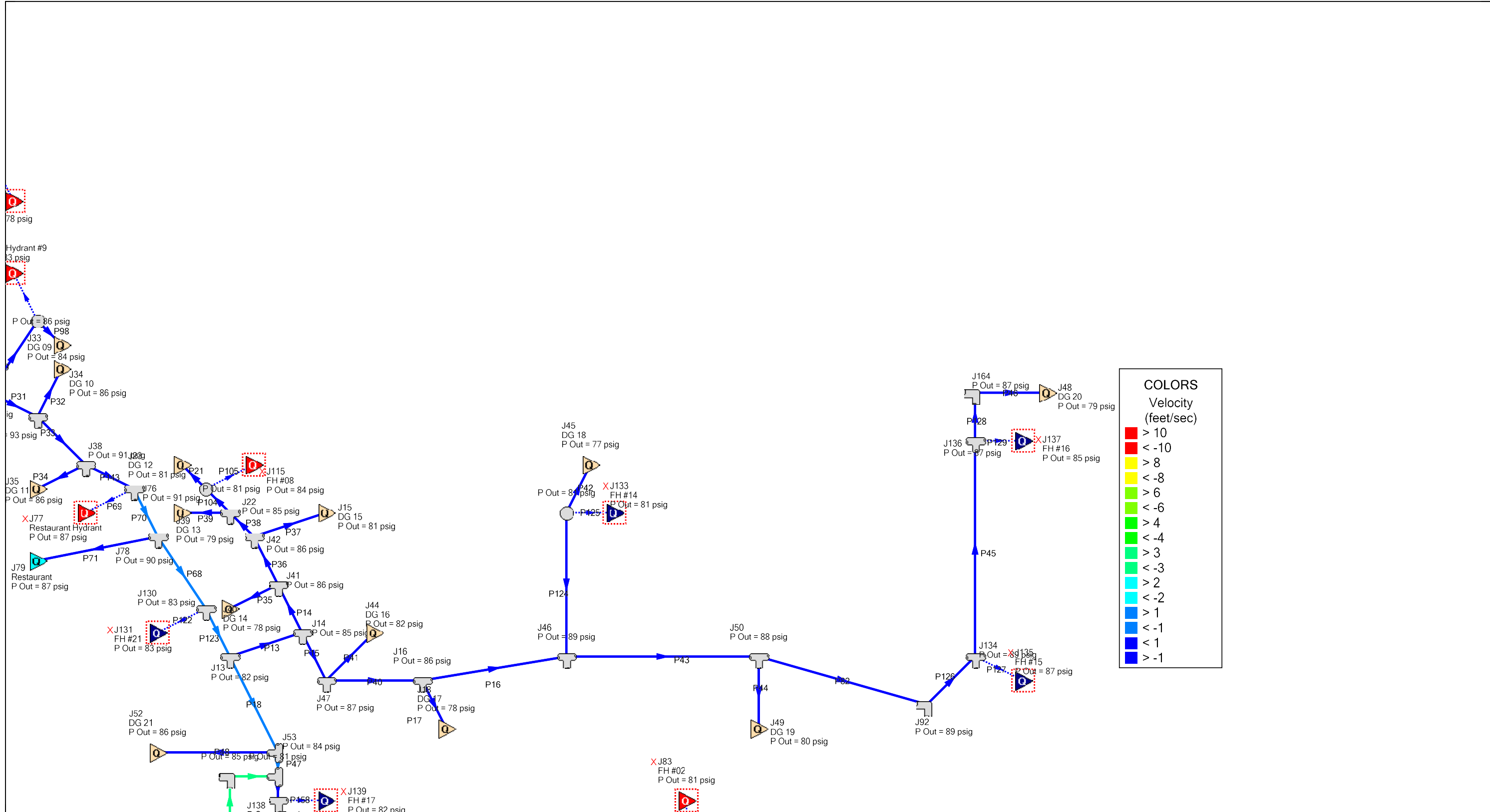


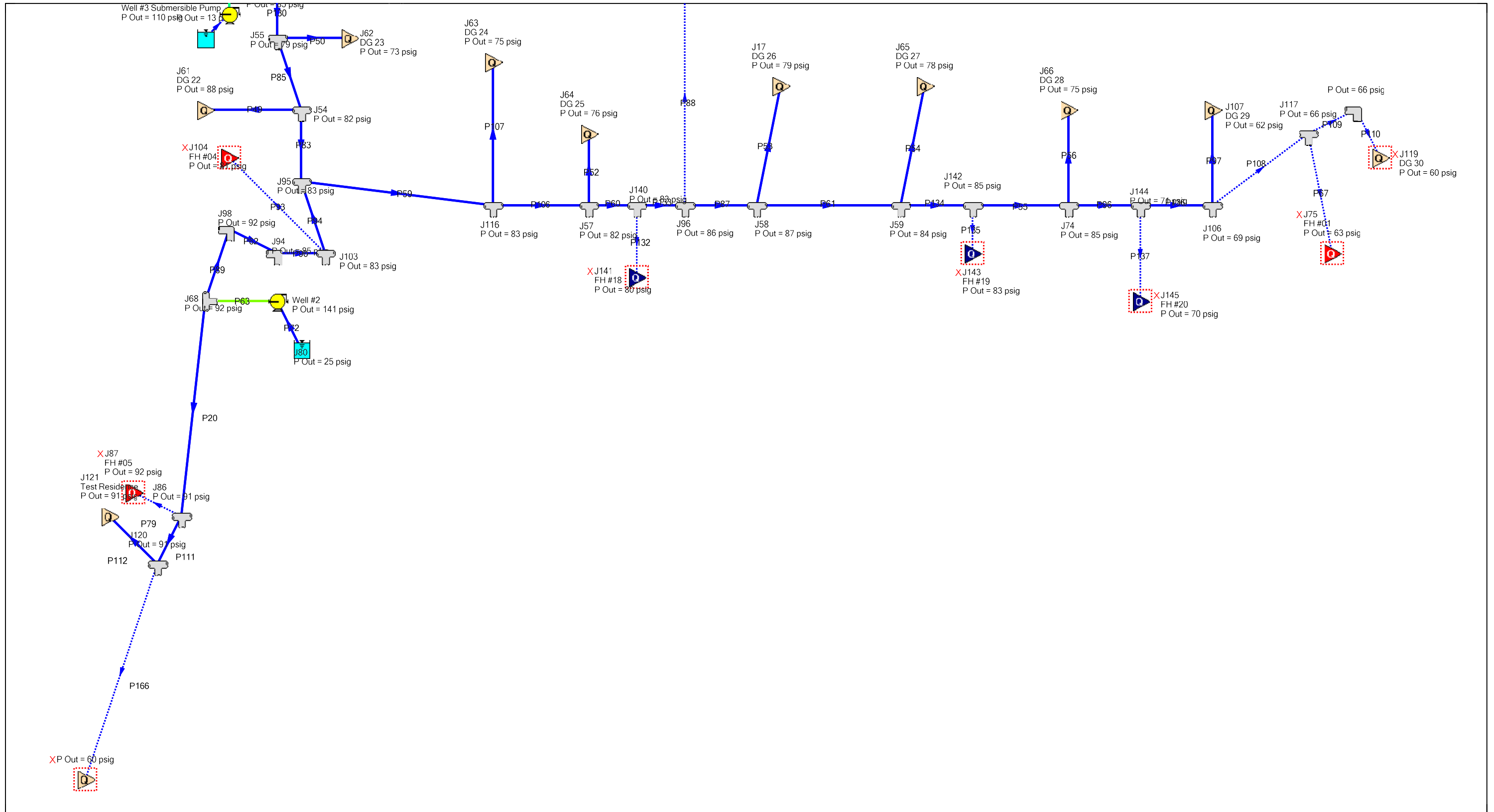


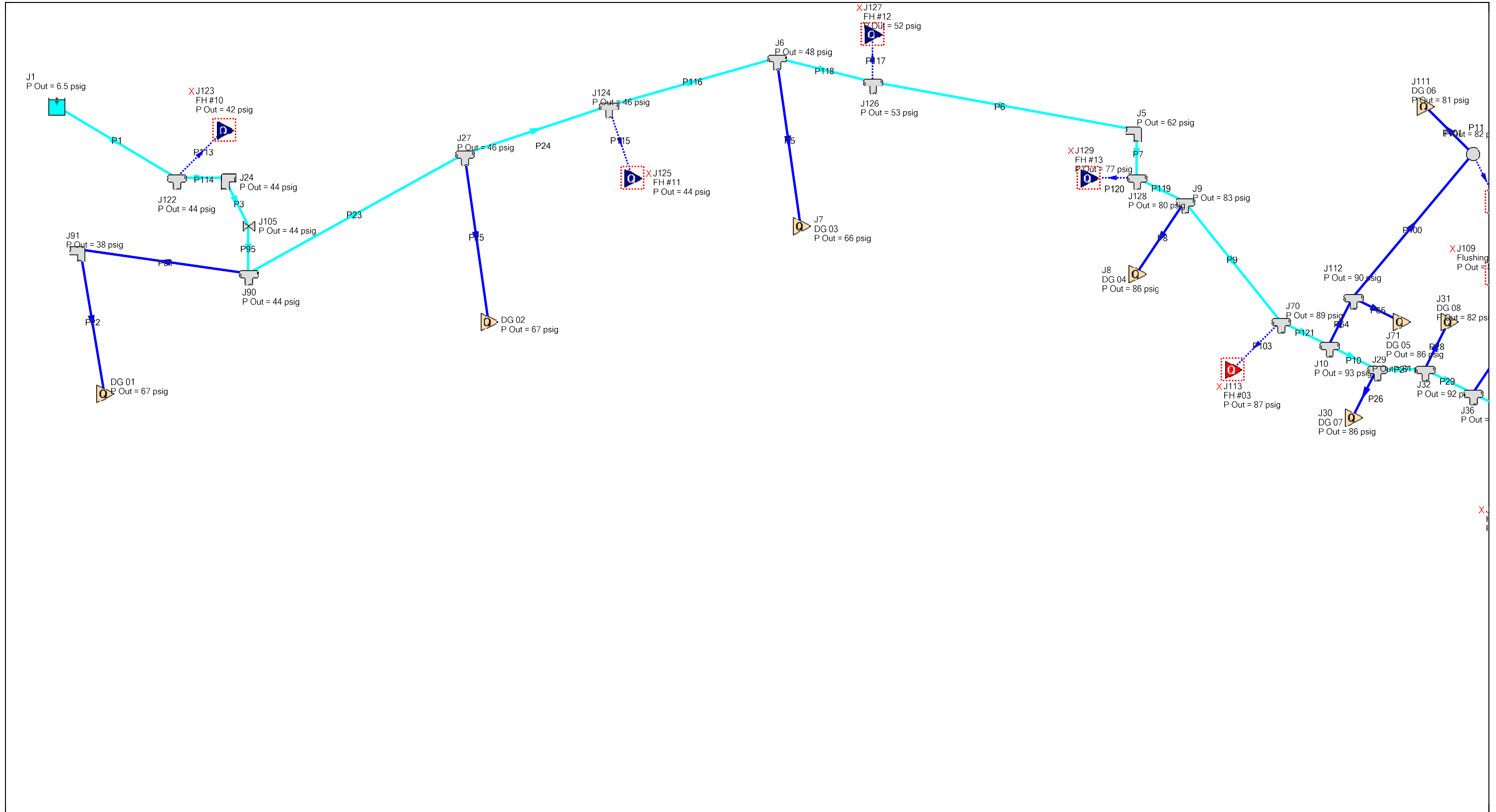


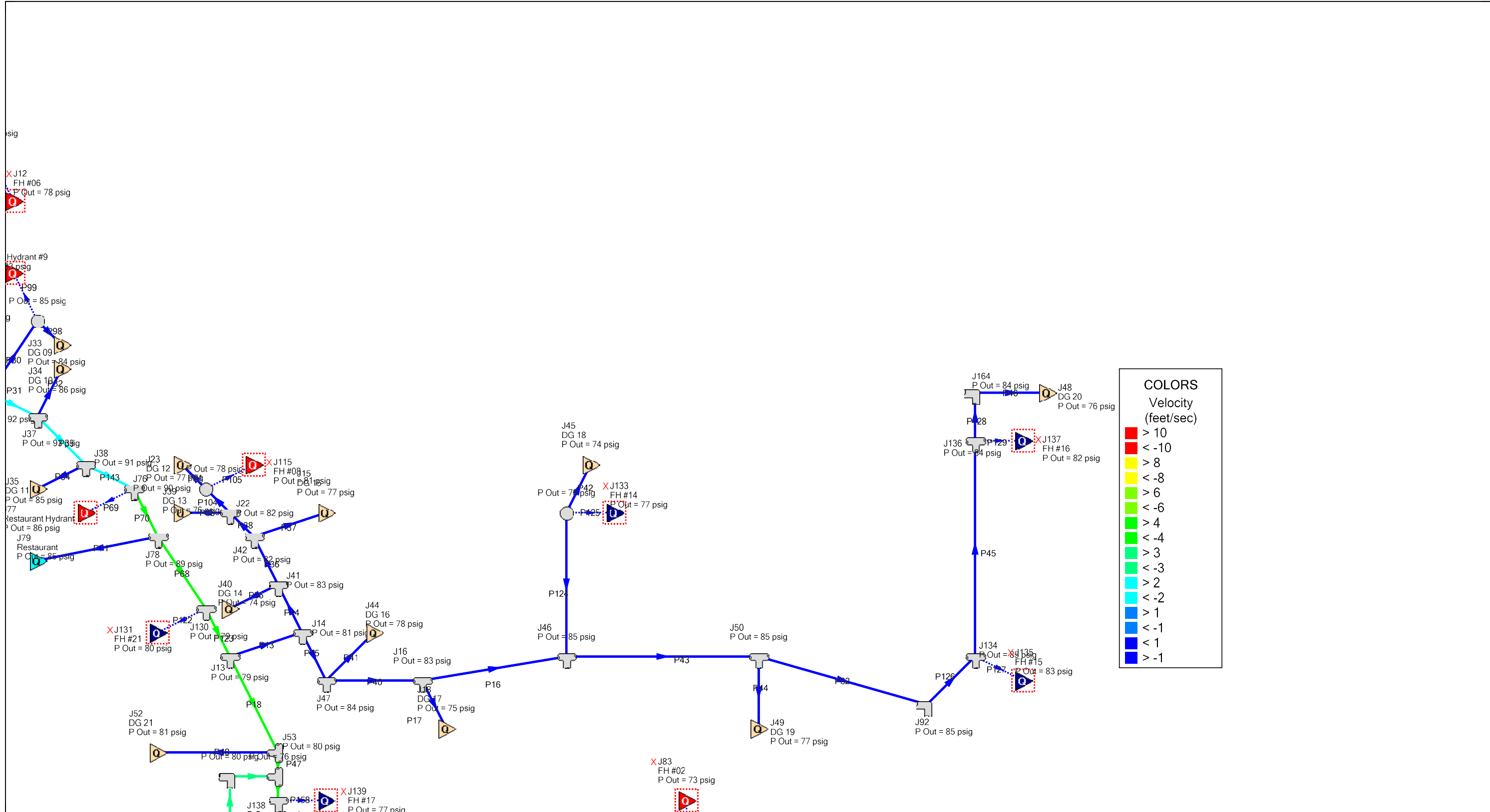


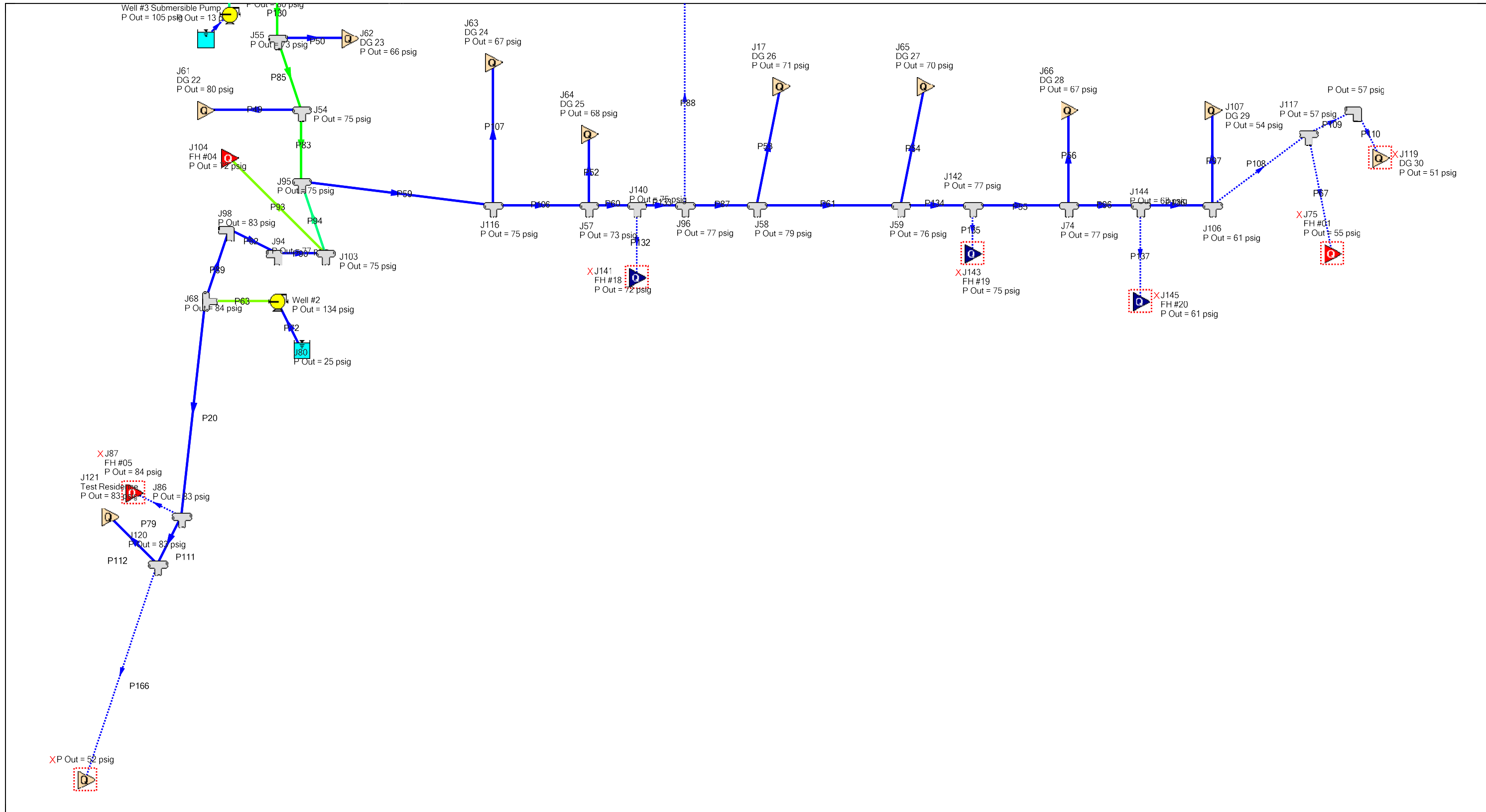


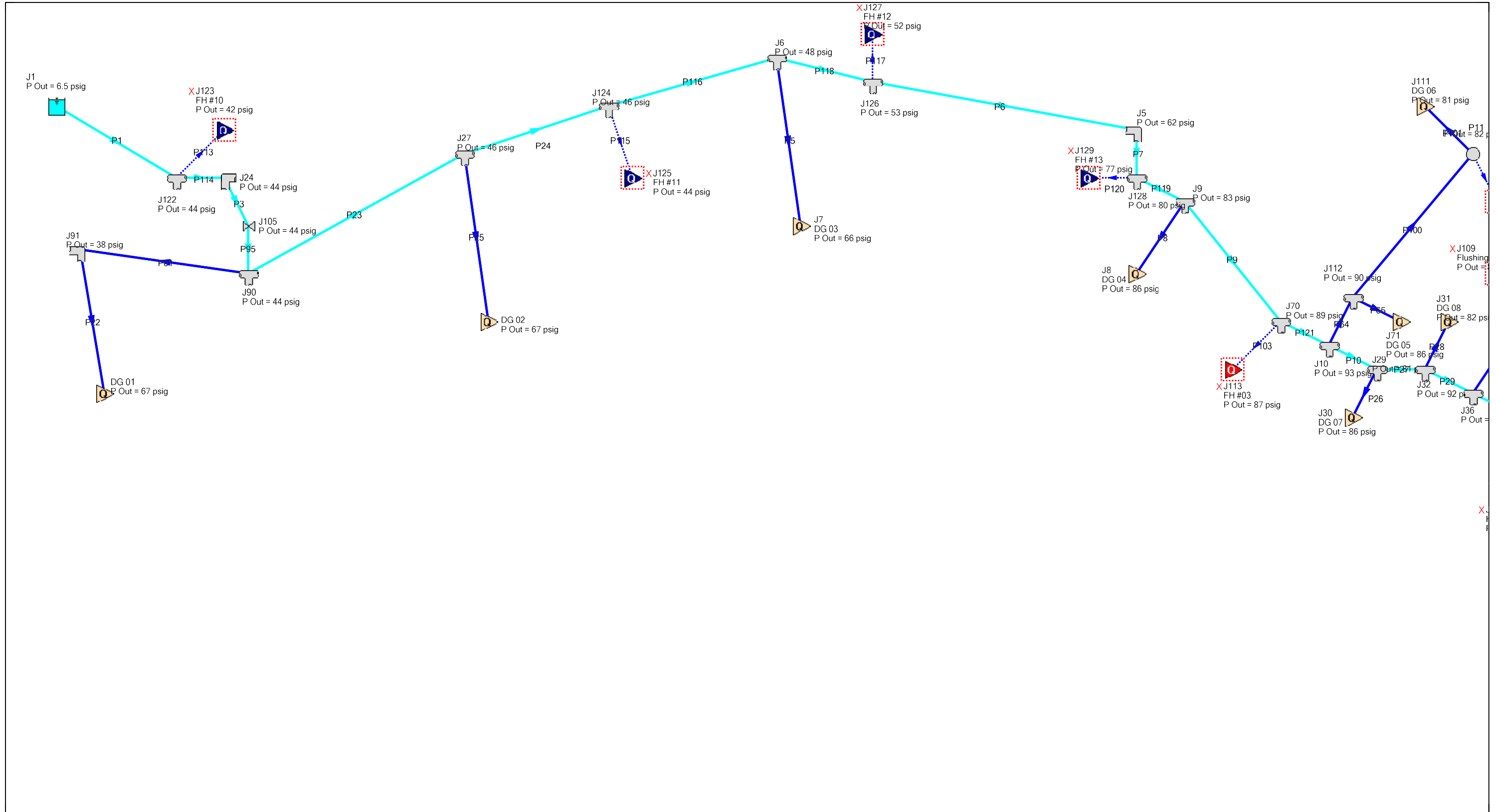


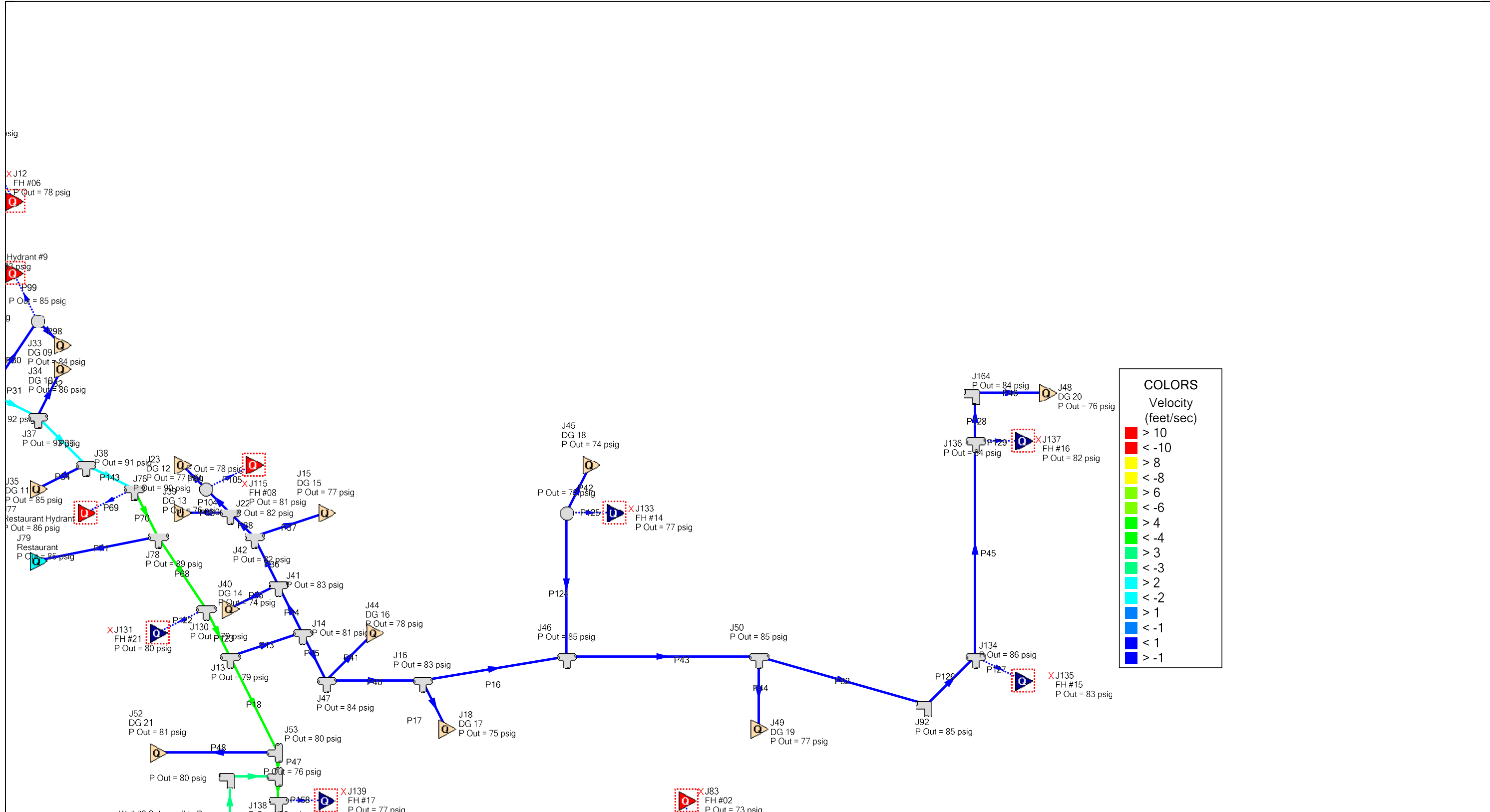


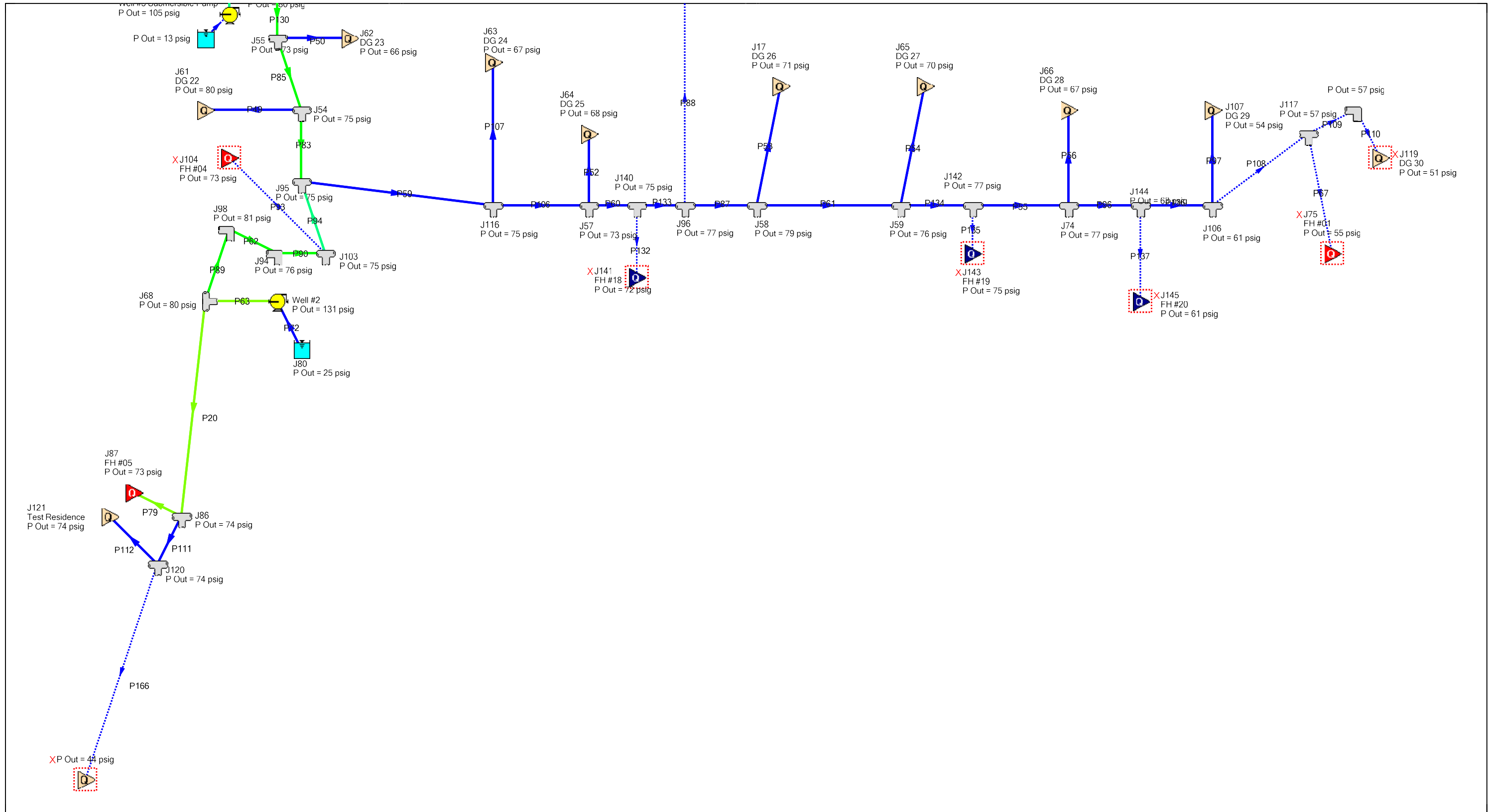


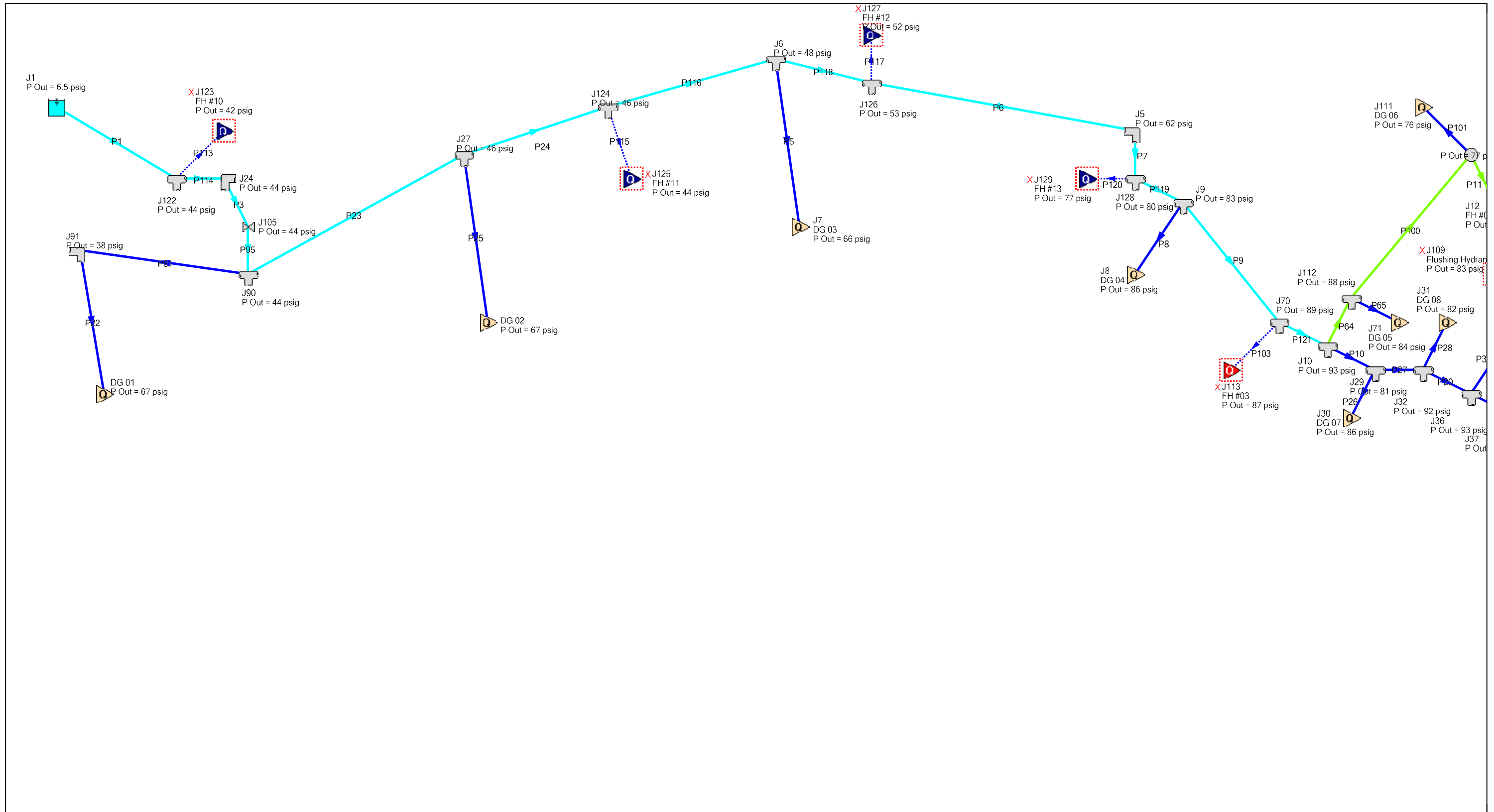


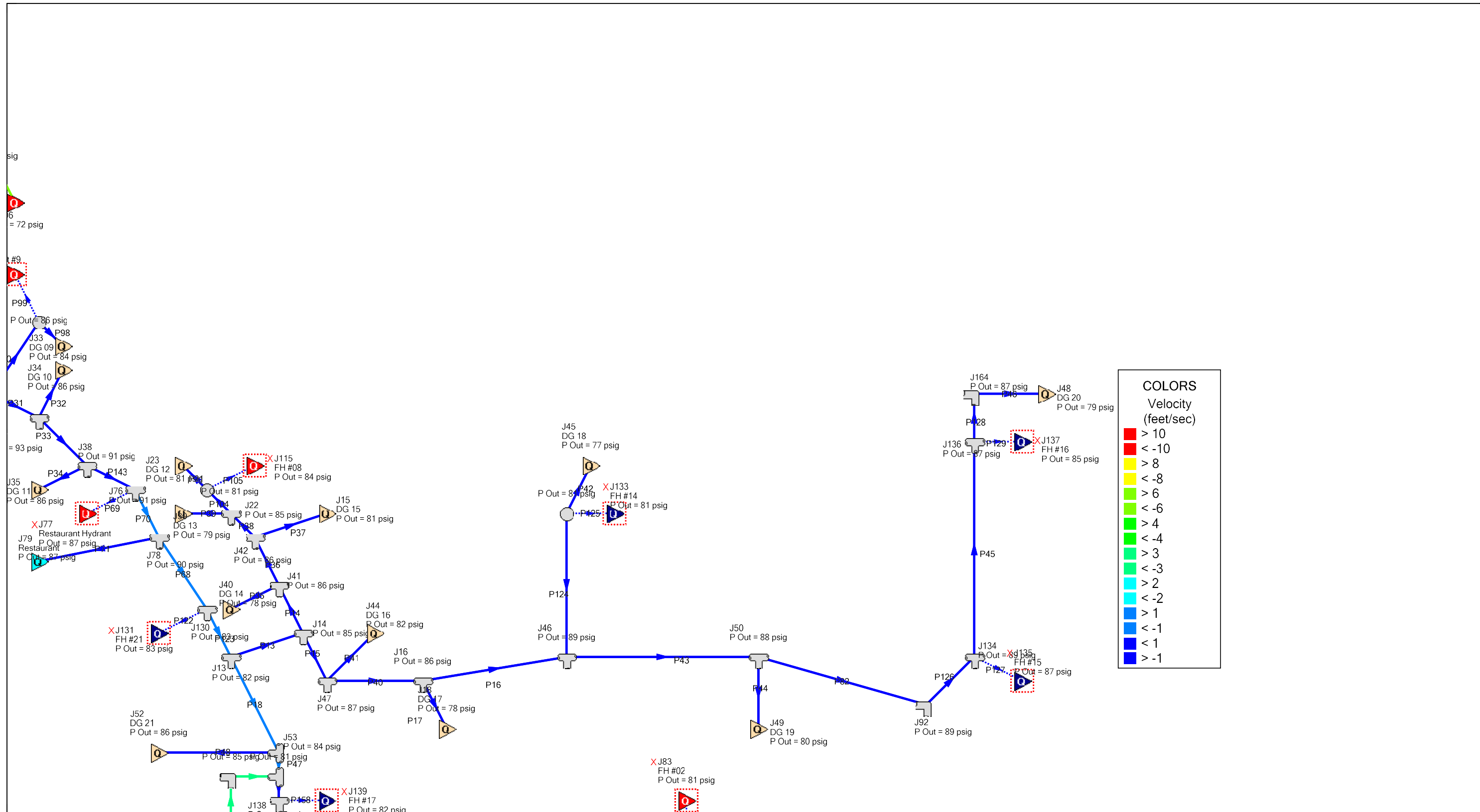






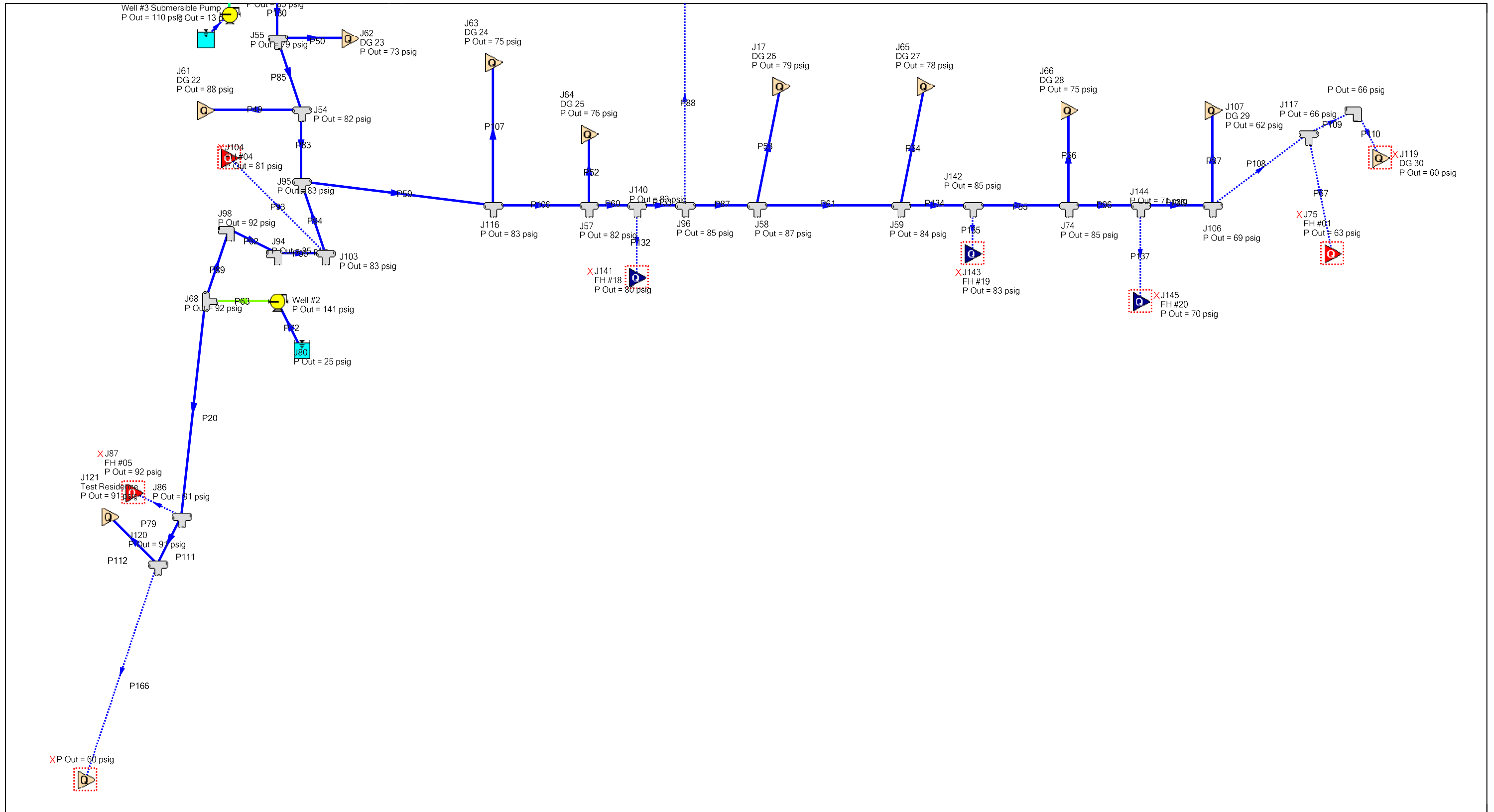


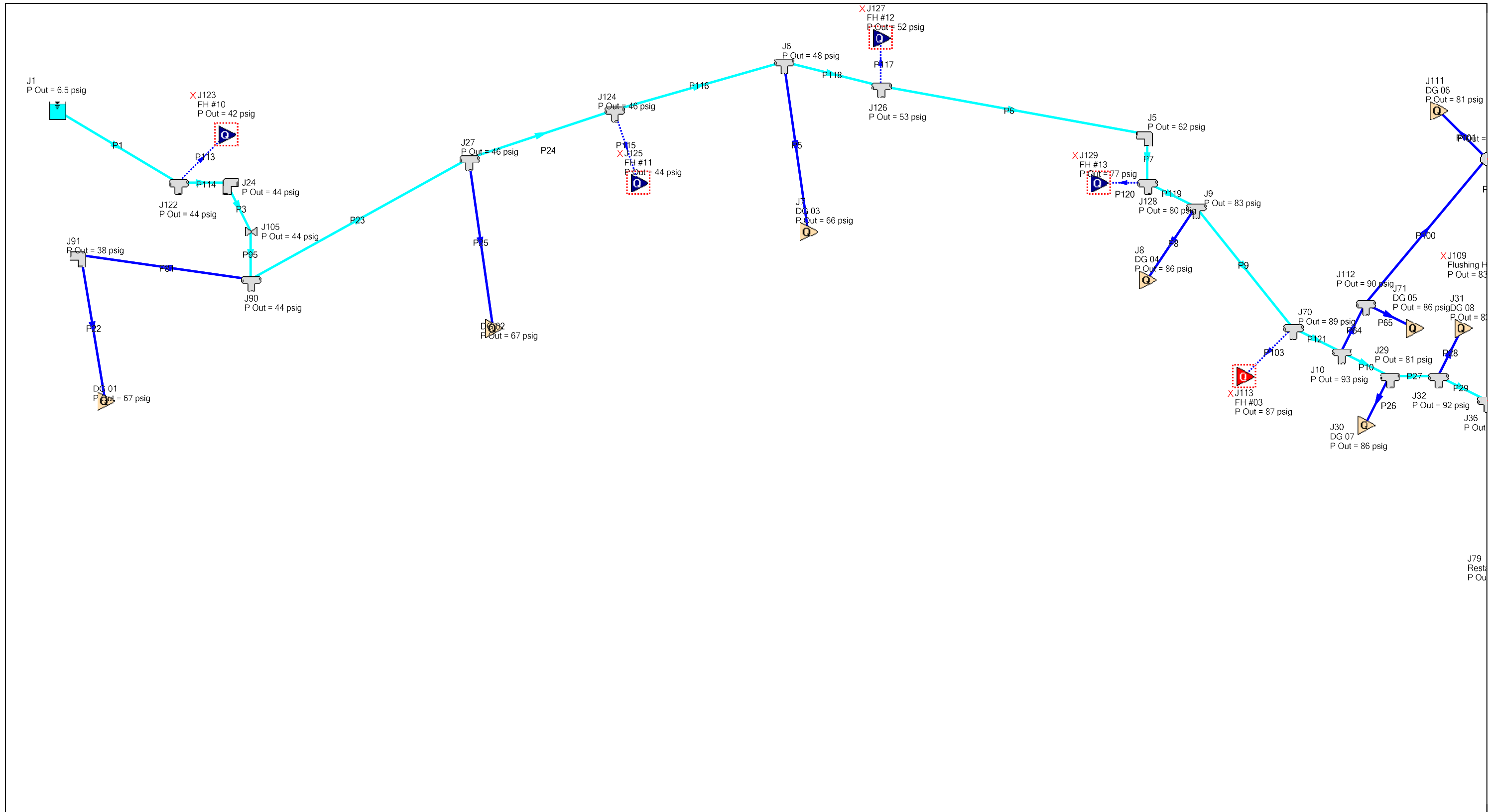


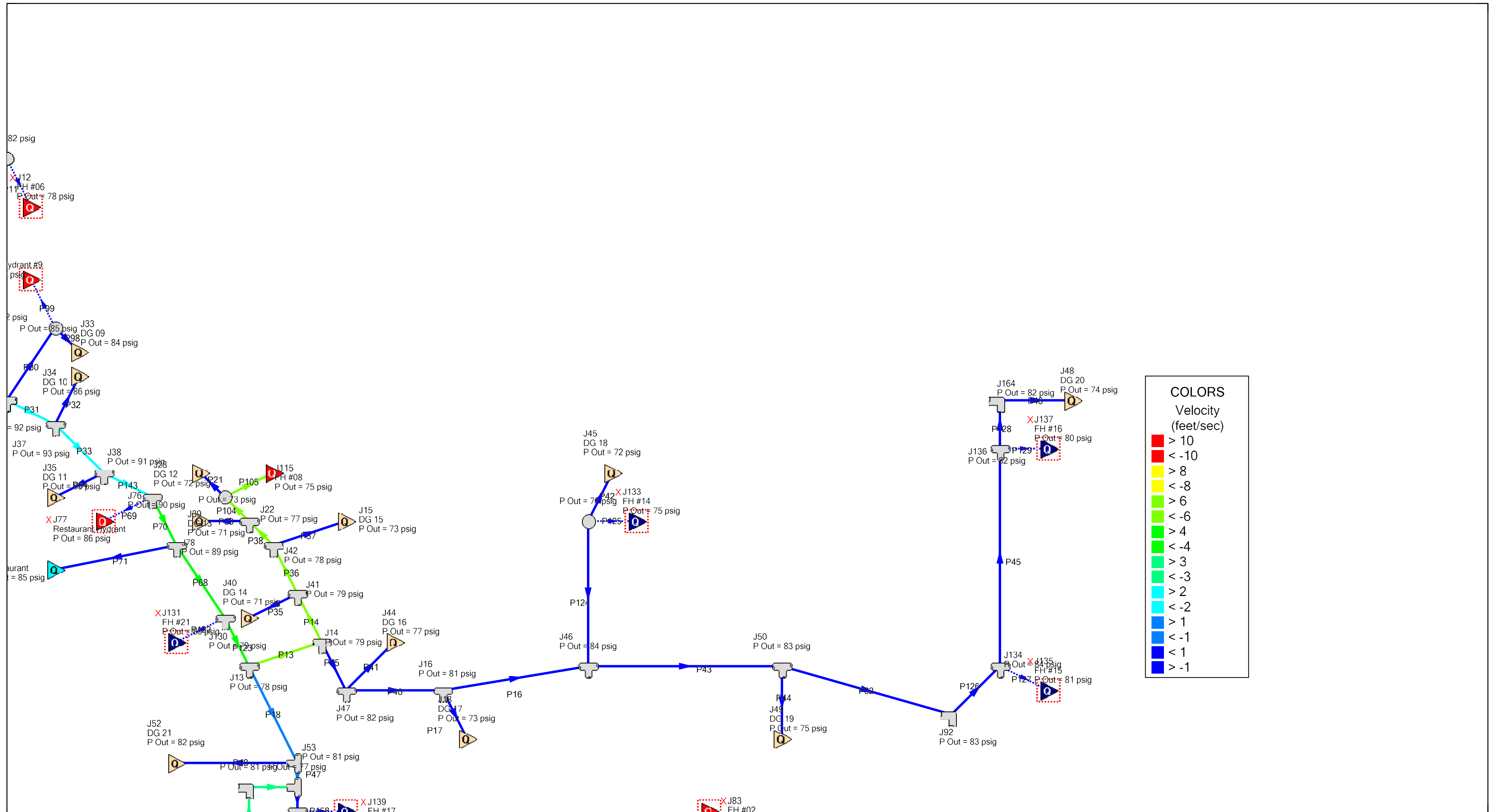


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Future Upgrades to Existing Alignments  
No Pipe Loop Additions  
500 gpm at FH #6

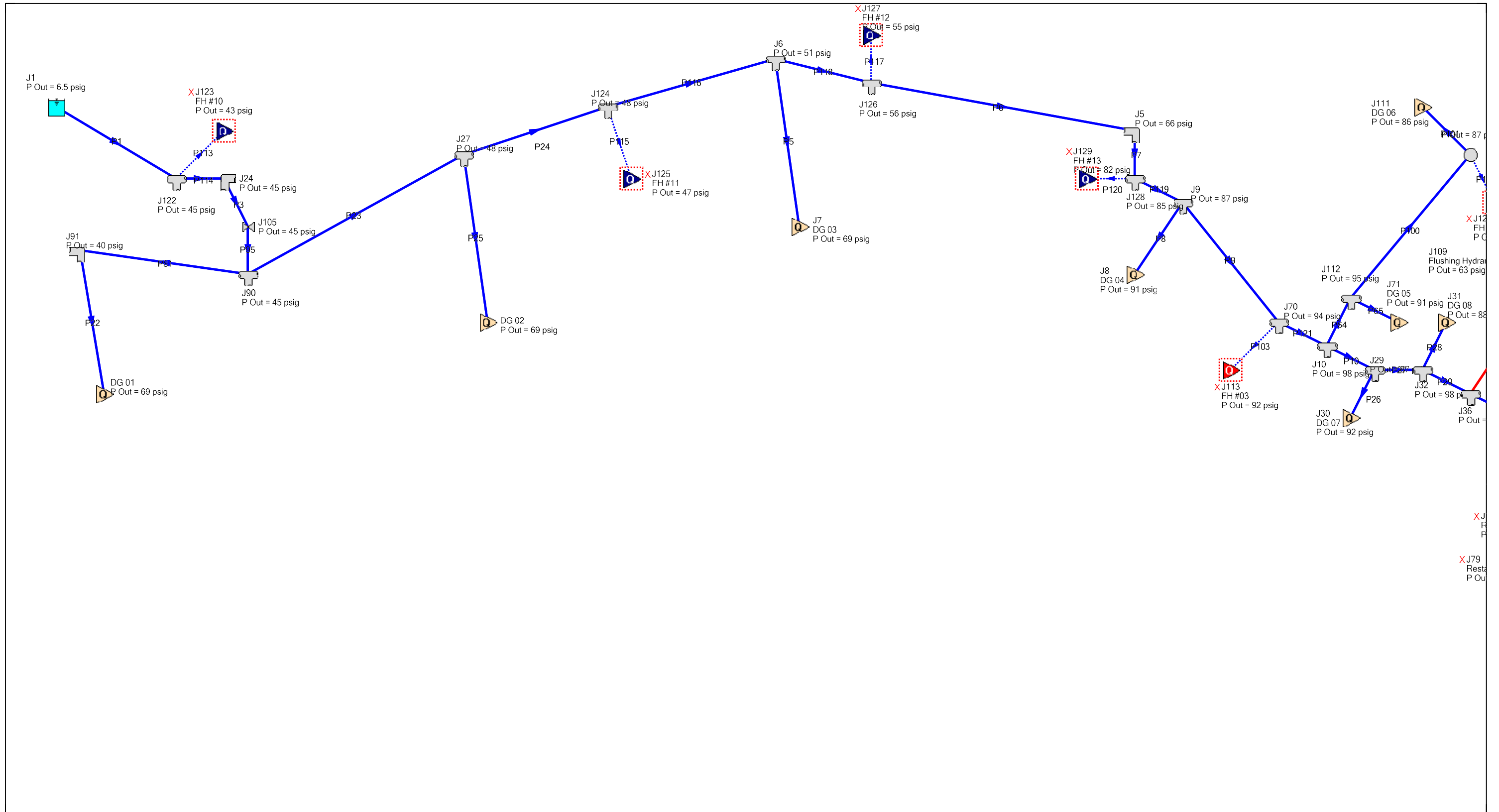


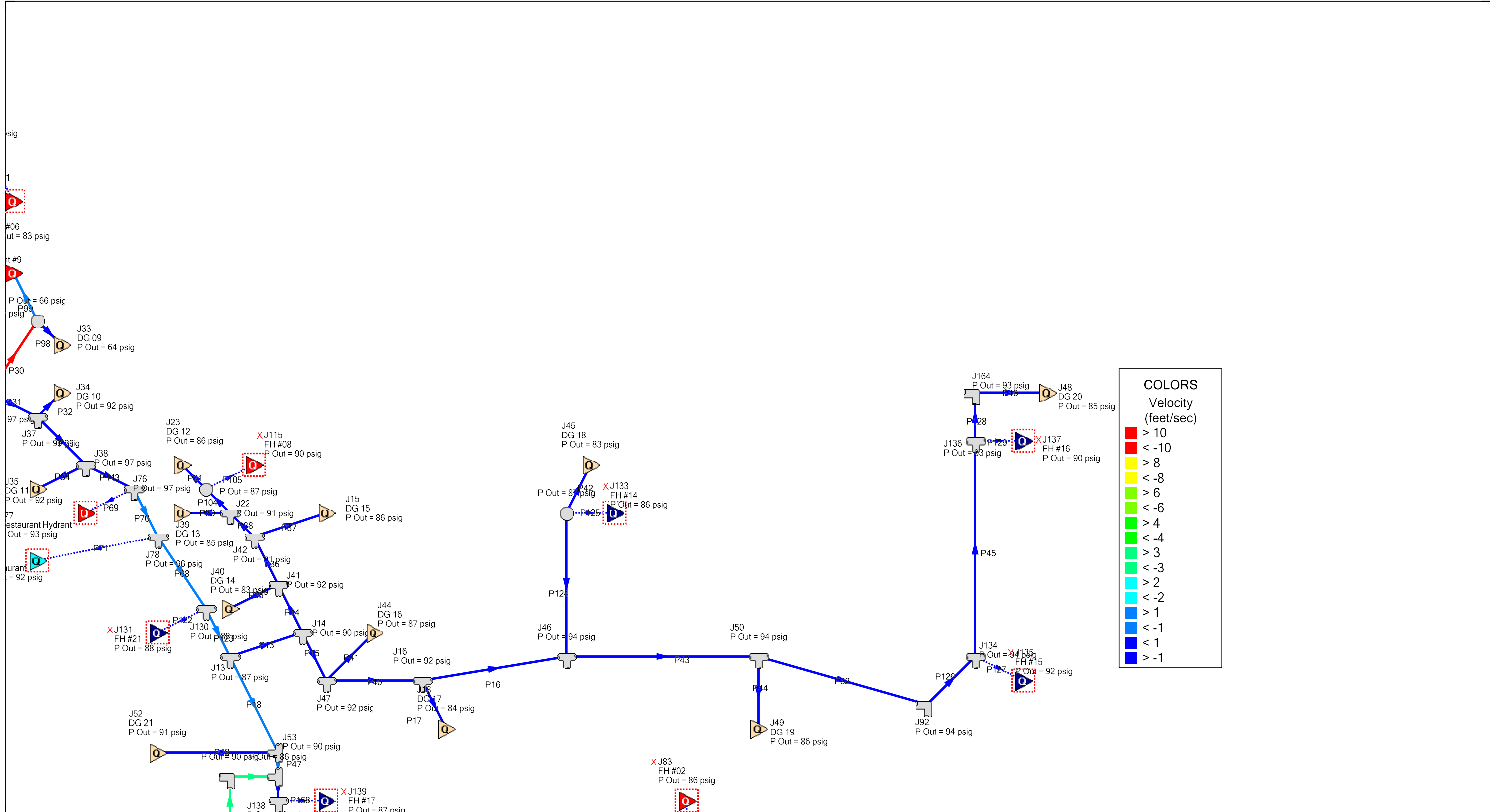




COLORS	
Velocity (feet/sec)	
Red	> 10
Red	< -10
Yellow	> 8
Yellow	< -8
Light Green	> 6
Light Green	< -6
Green	> 4
Green	< -4
Cyan	> 3
Cyan	< -3
Light Blue	> 2
Light Blue	< -2
Blue	> 1
Blue	< -1
Dark Blue	> -1
Dark Blue	< -1

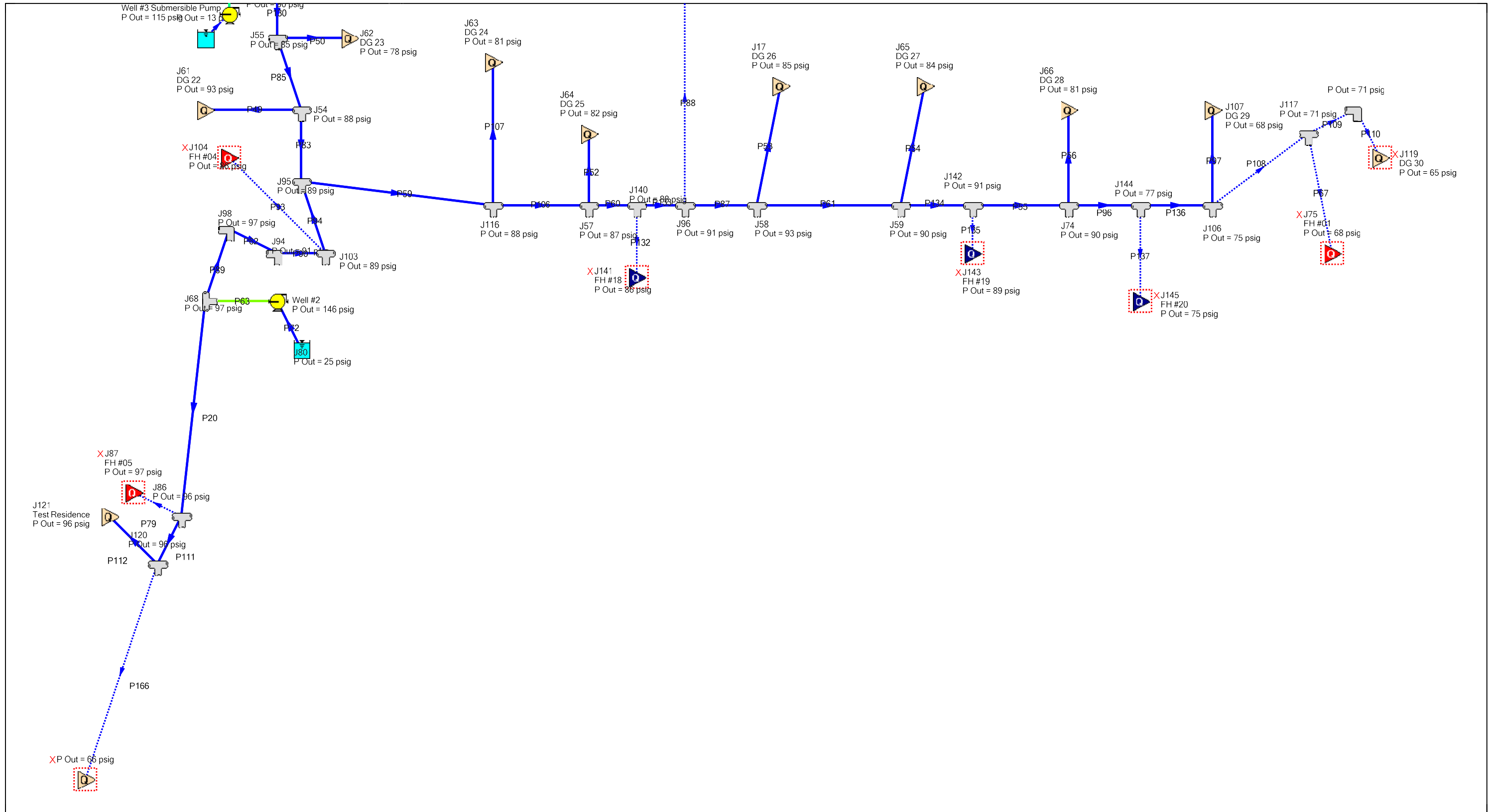


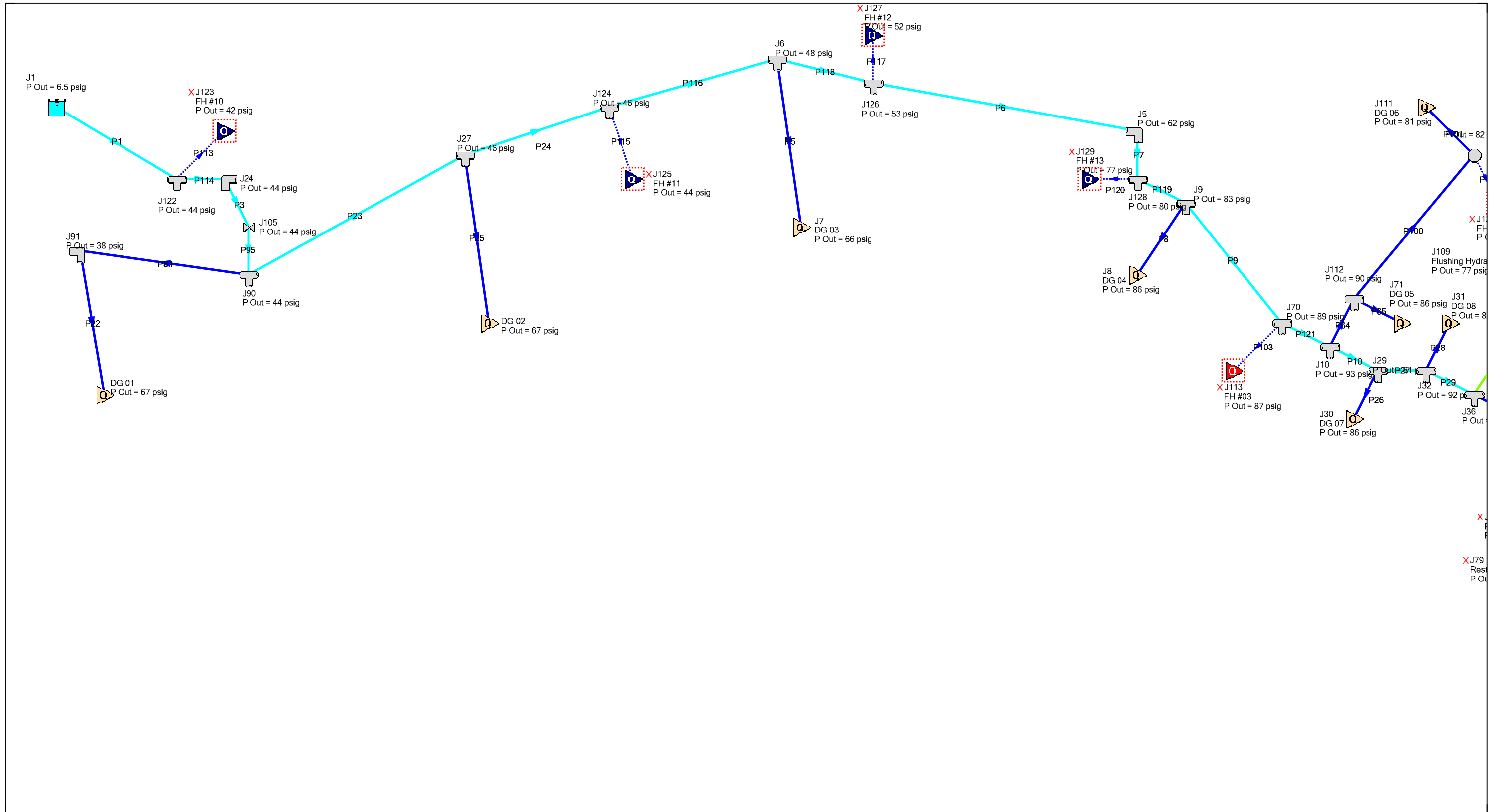


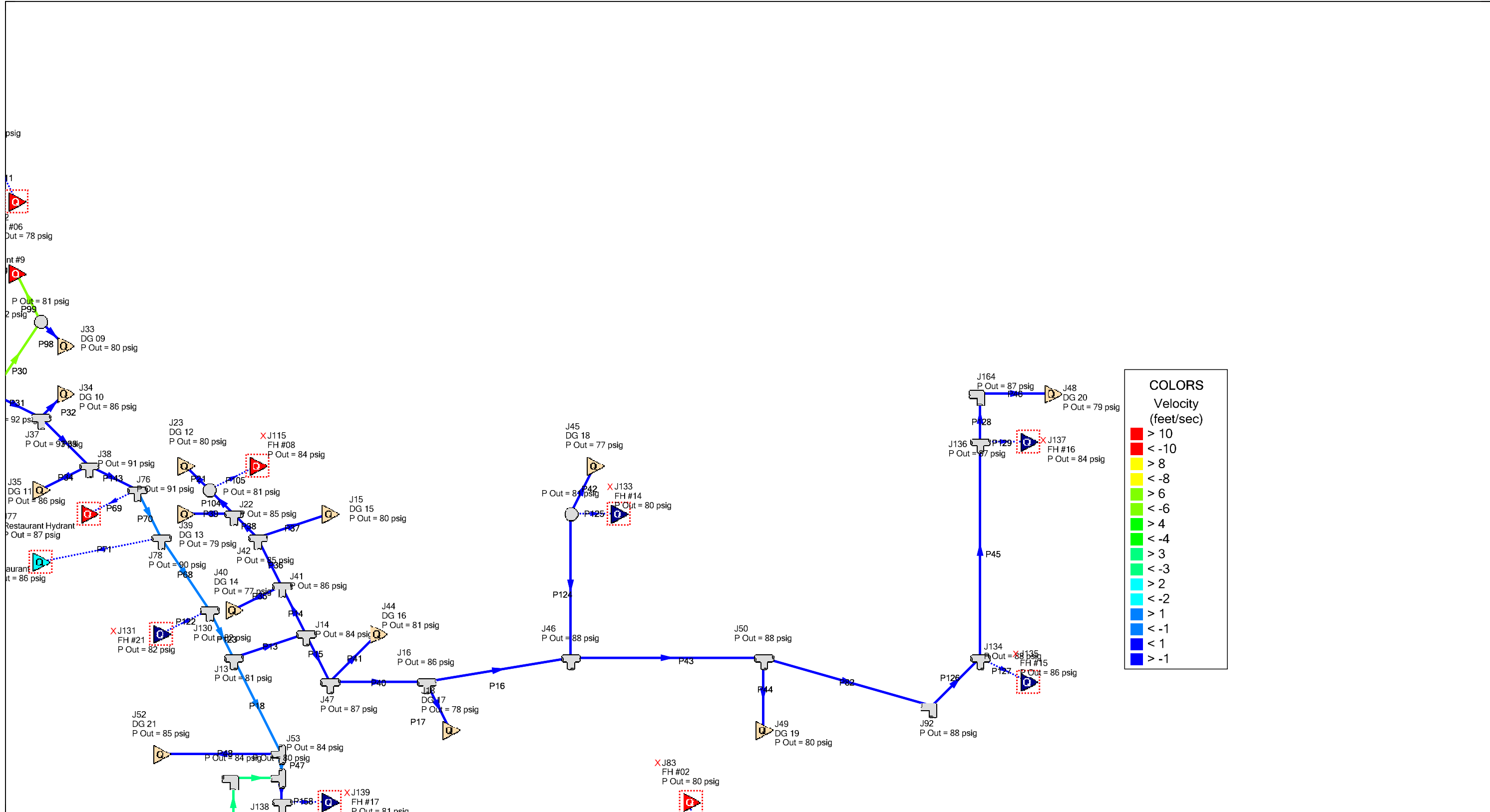


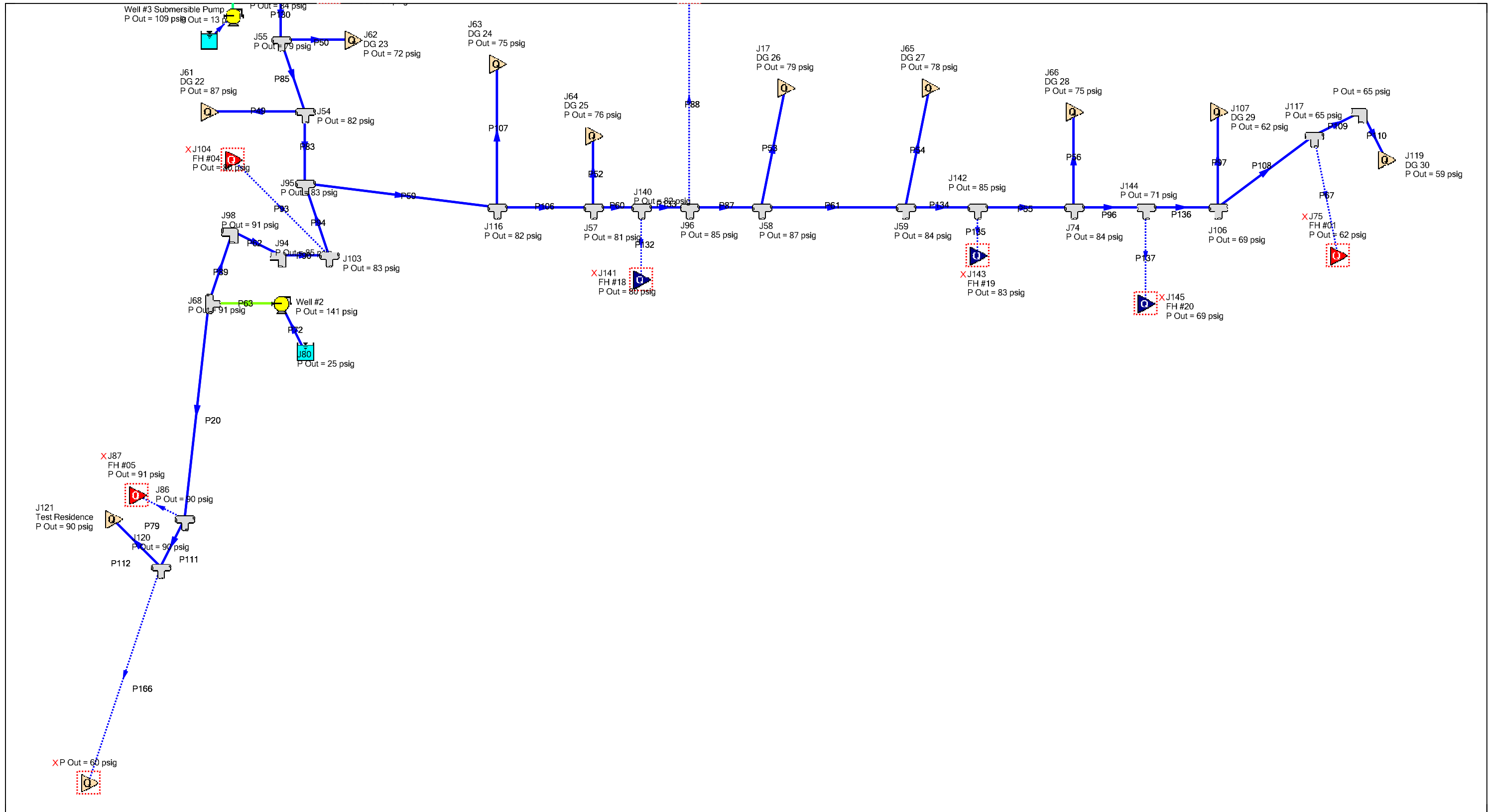
**COLORS**  
Velocity (feet/sec)

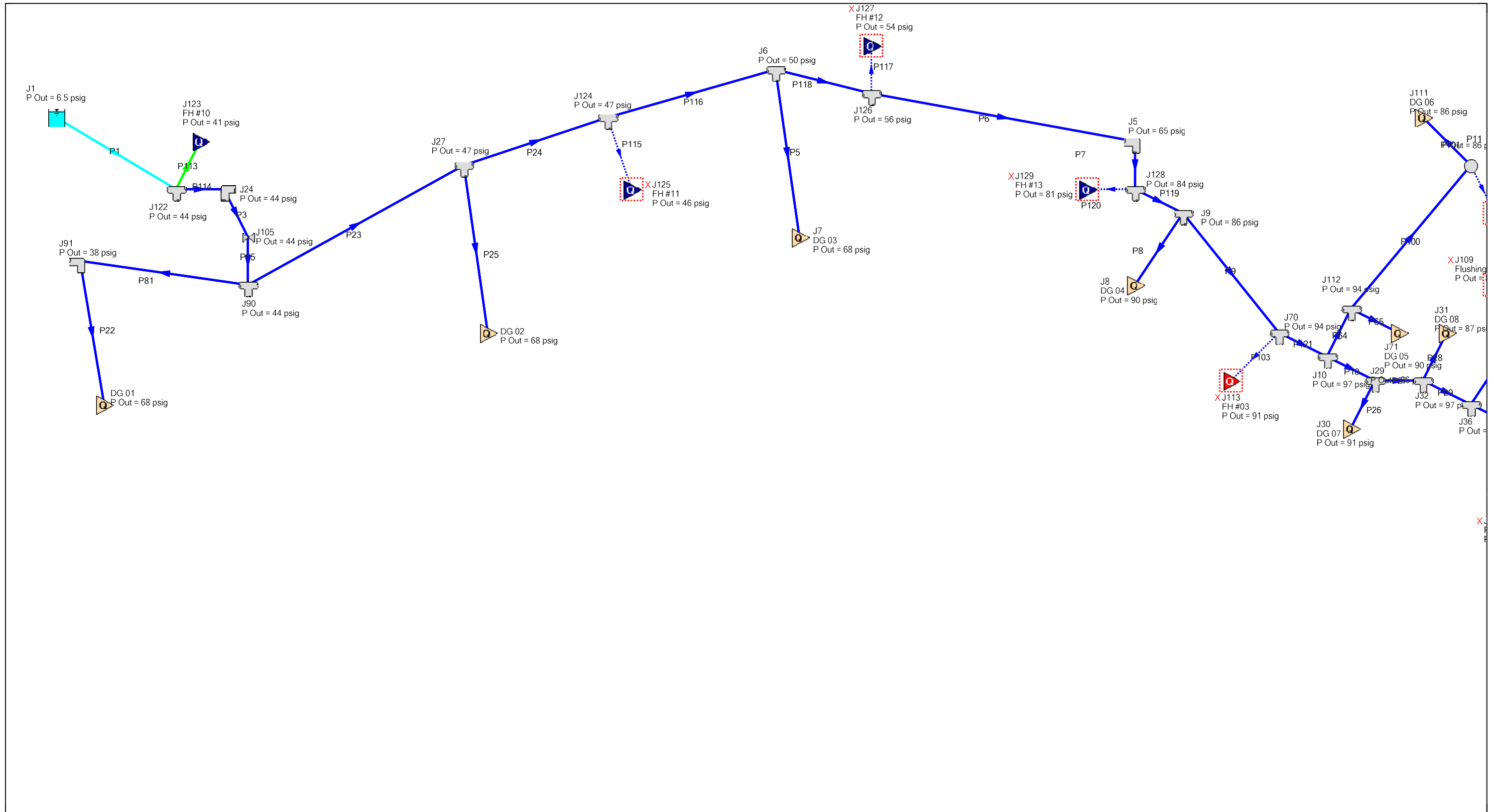
Red	> 10
Orange	< -10
Yellow	> 8
Light Green	< -8
Green	> 6
Light Blue	< -6
Medium Green	> 4
Light Cyan	< -4
Green	> 3
Light Blue	< -3
Cyan	> 2
Light Blue	< -2
Blue	> 1
Dark Blue	< -1
Dark Blue	> -1

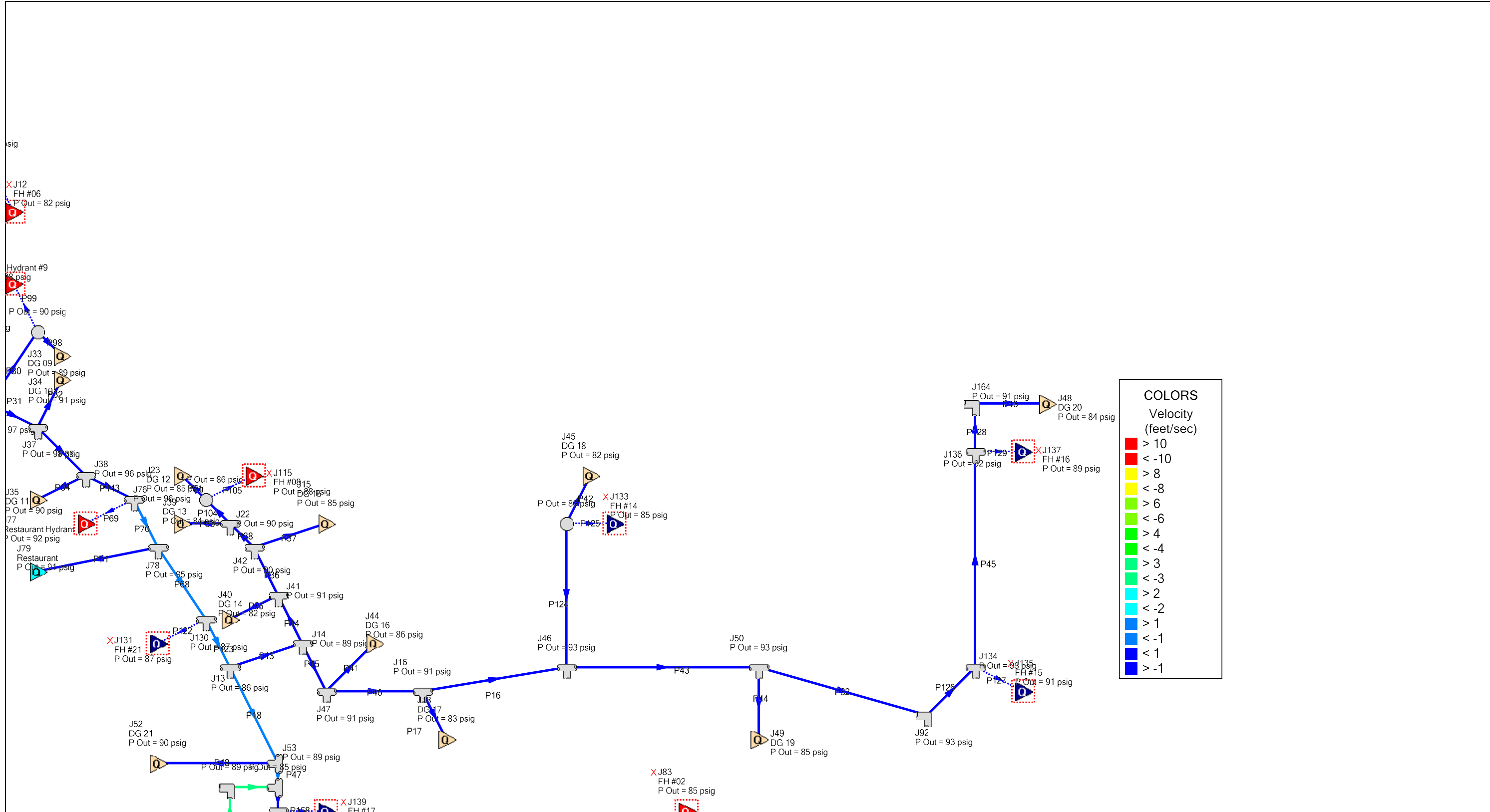


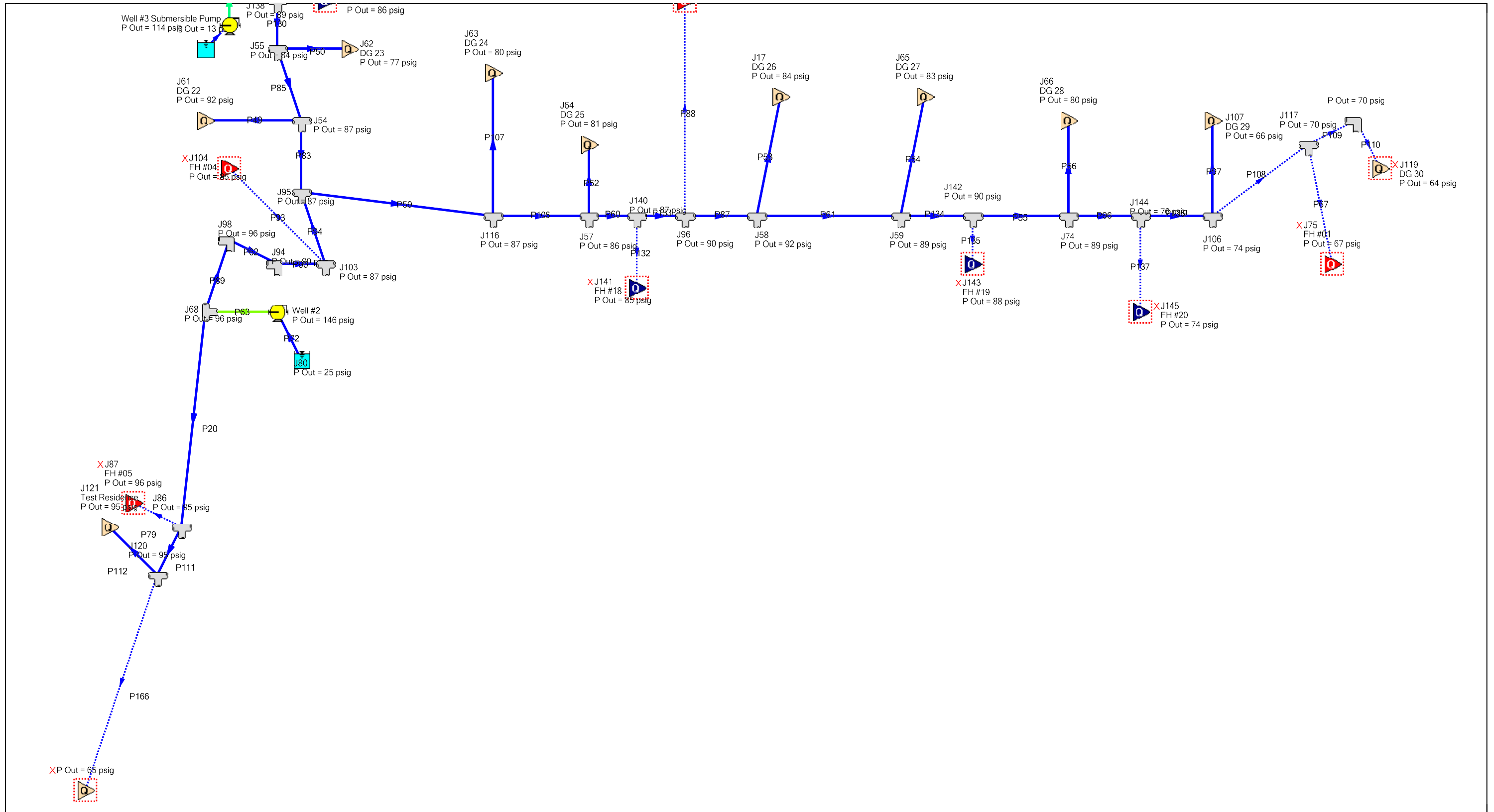


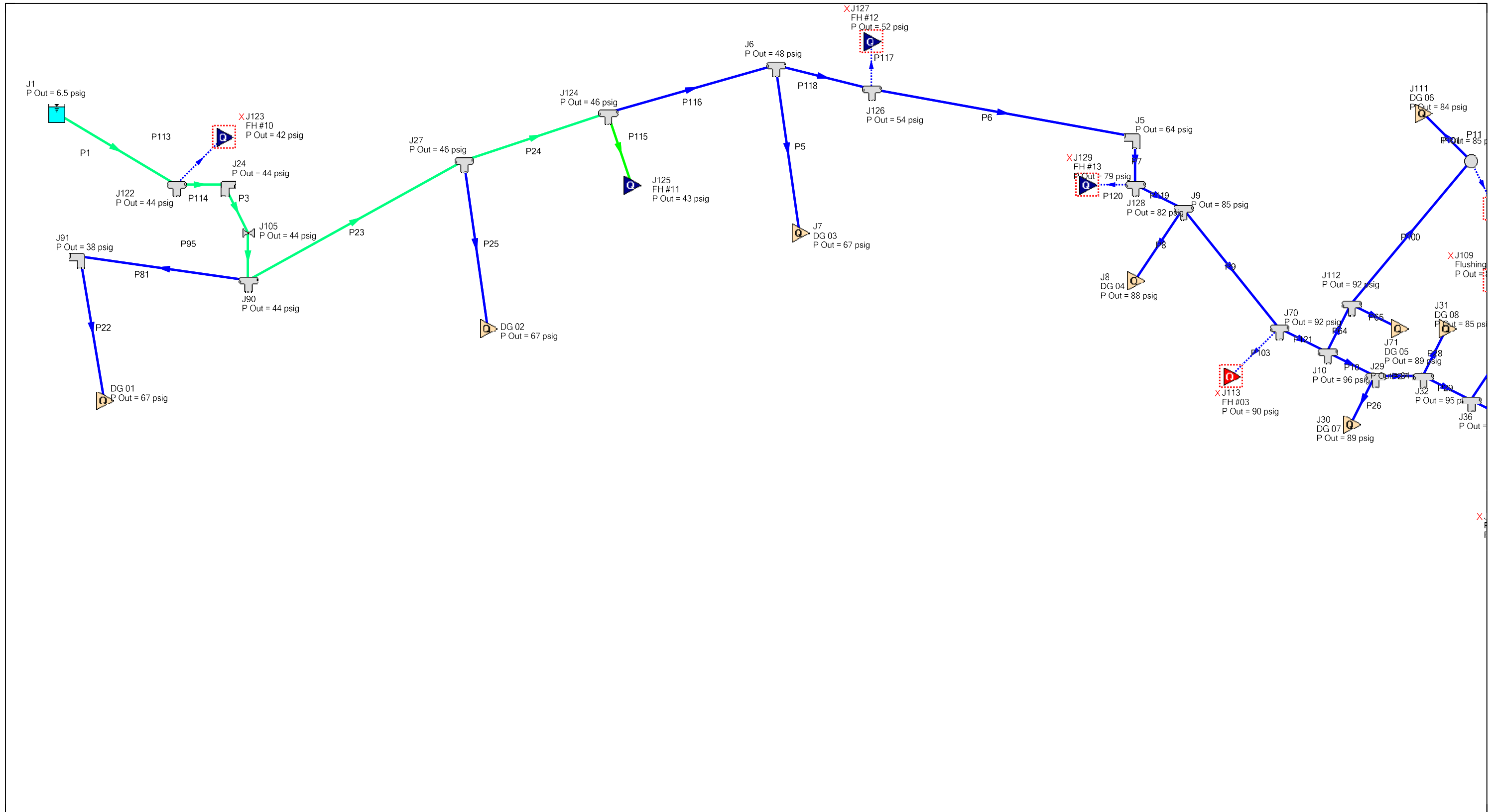


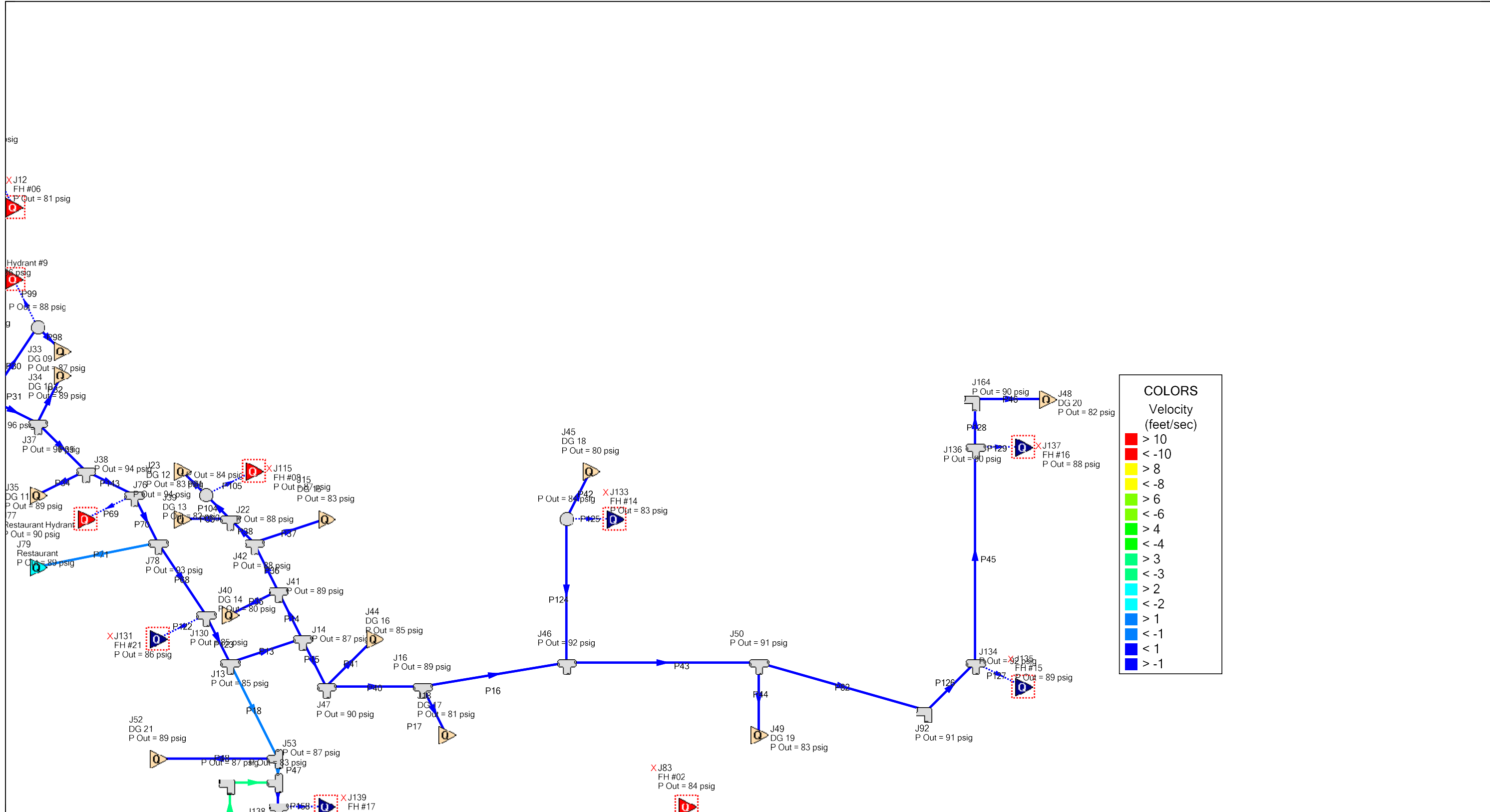






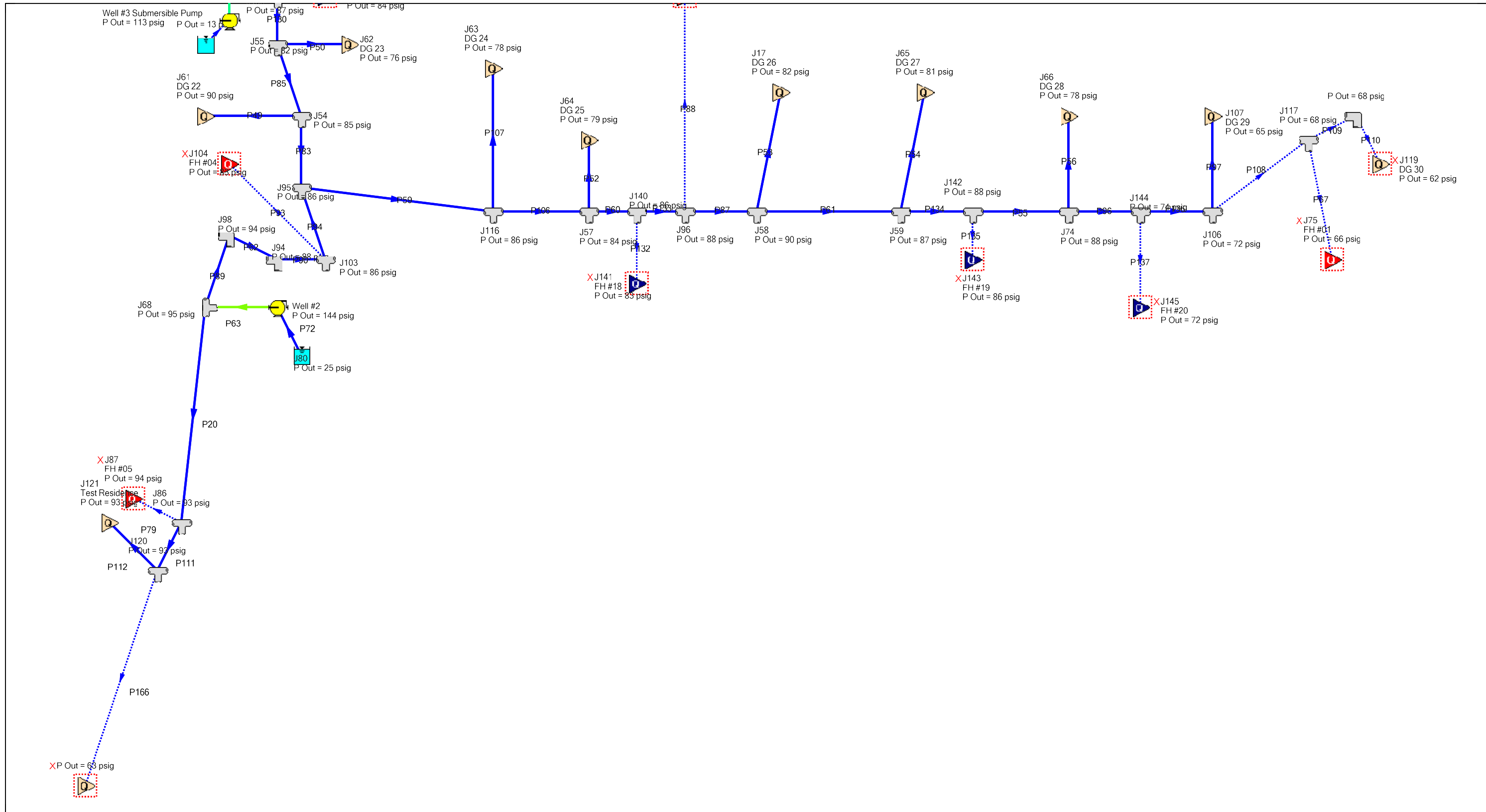


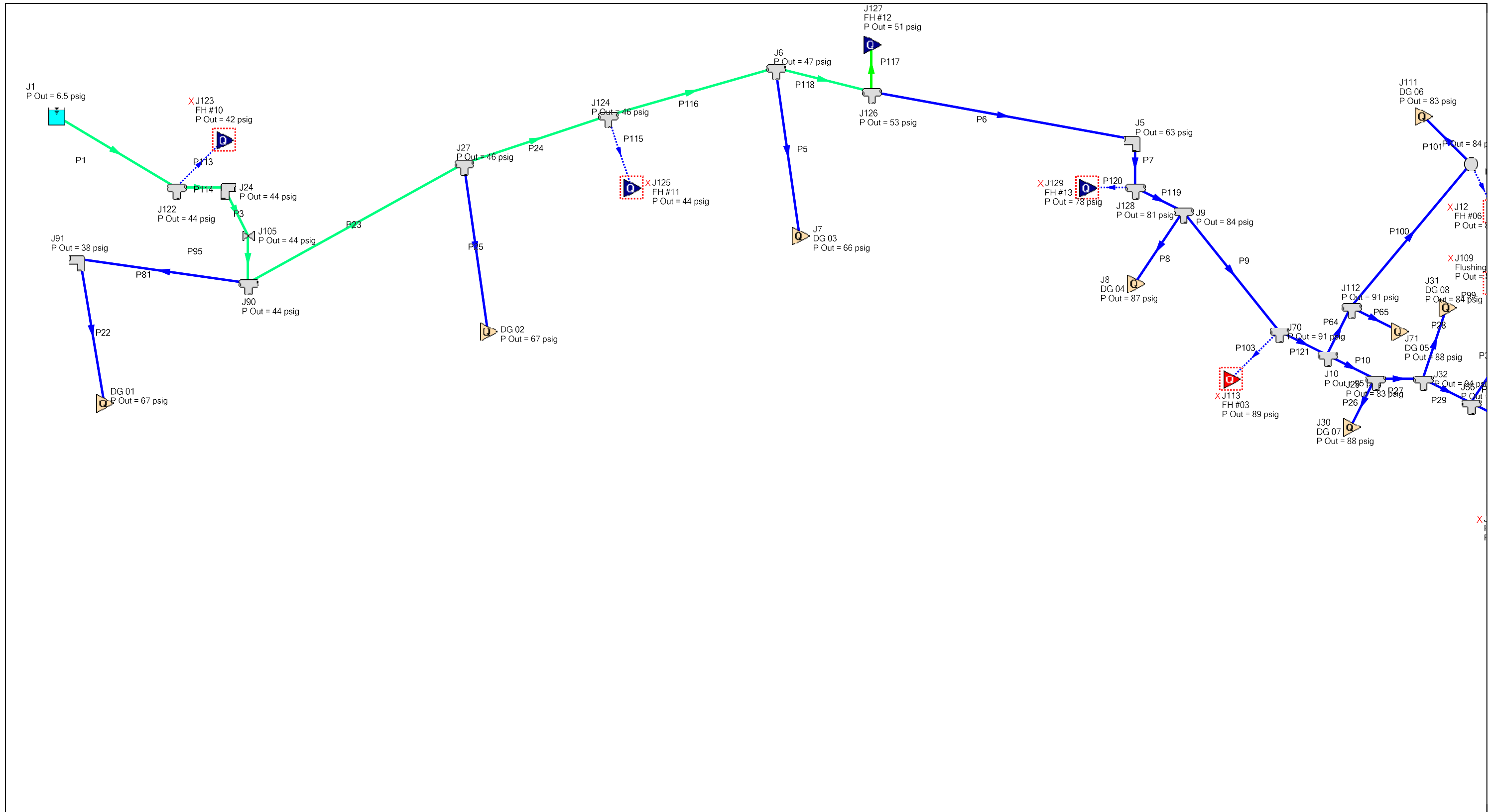


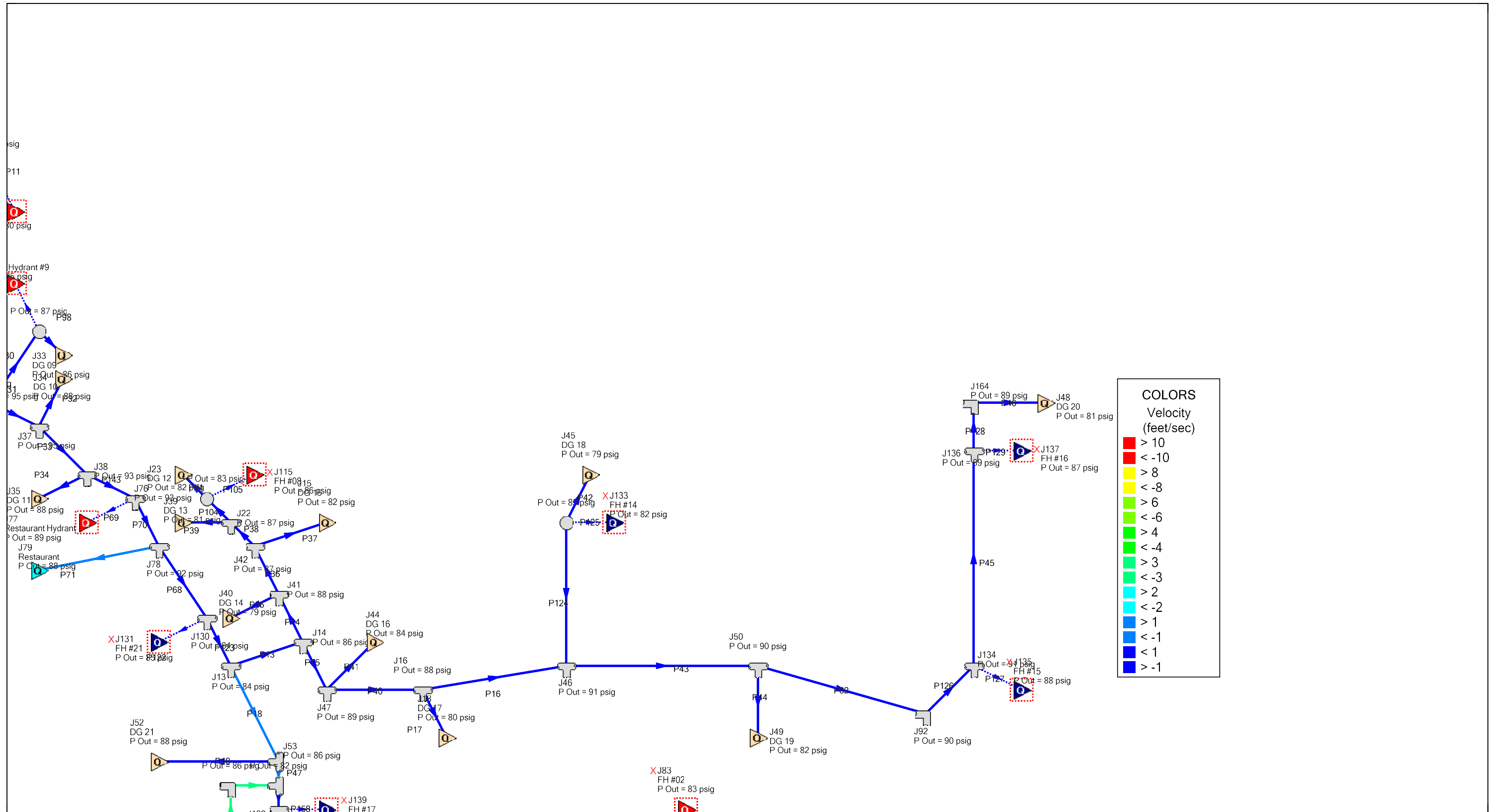


**COLORS**  
Velocity (feet/sec)

Red	> 10
Light Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Light Cyan	< -6
Green	> 4
Light Blue	< -4
Cyan	> 3
Light Blue	< -3
Blue	> 2
Light Blue	< -2
Dark Blue	> 1
Very Dark Blue	< -1
Black	> -1
Dark Blue	< -1

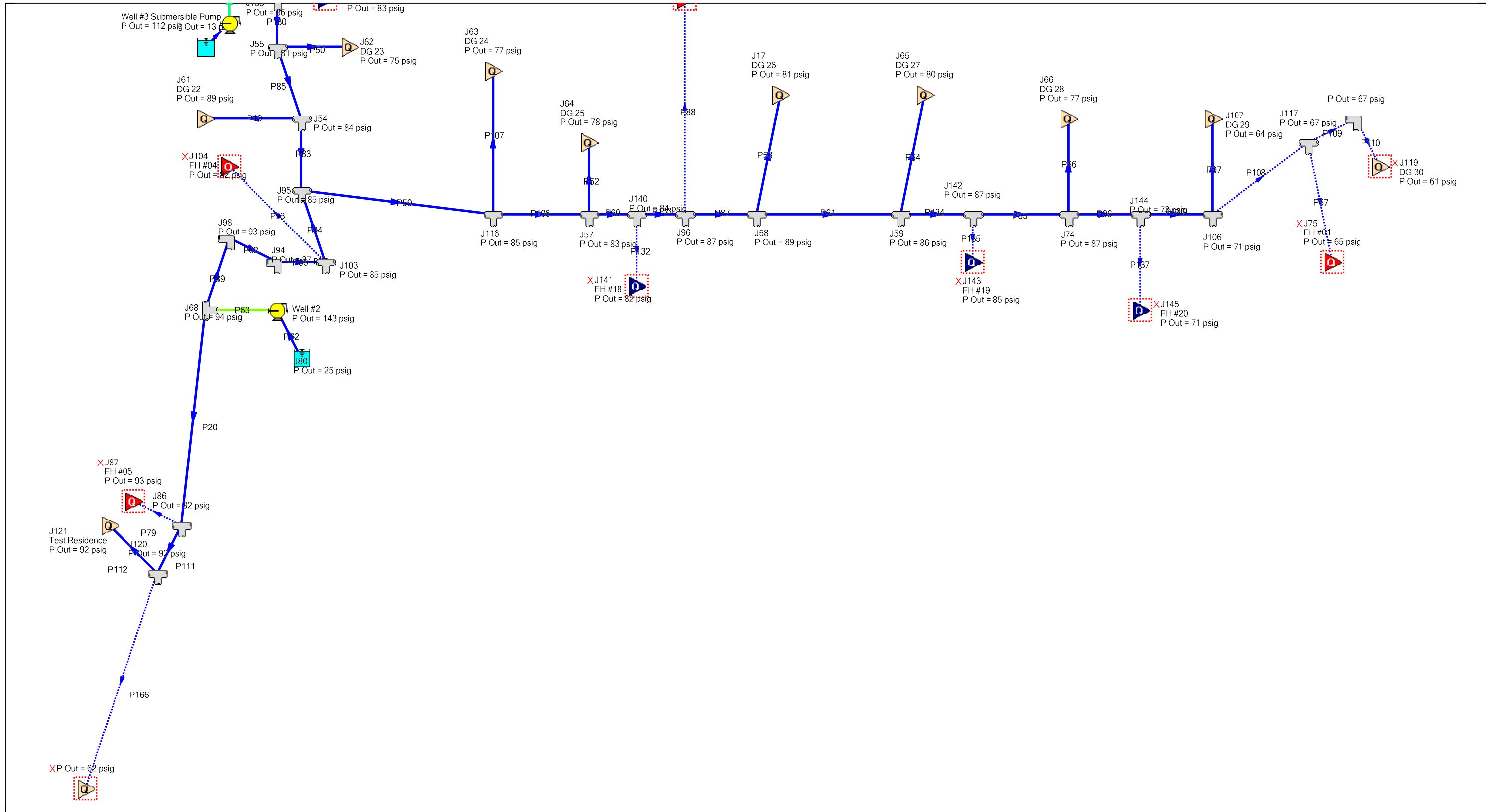


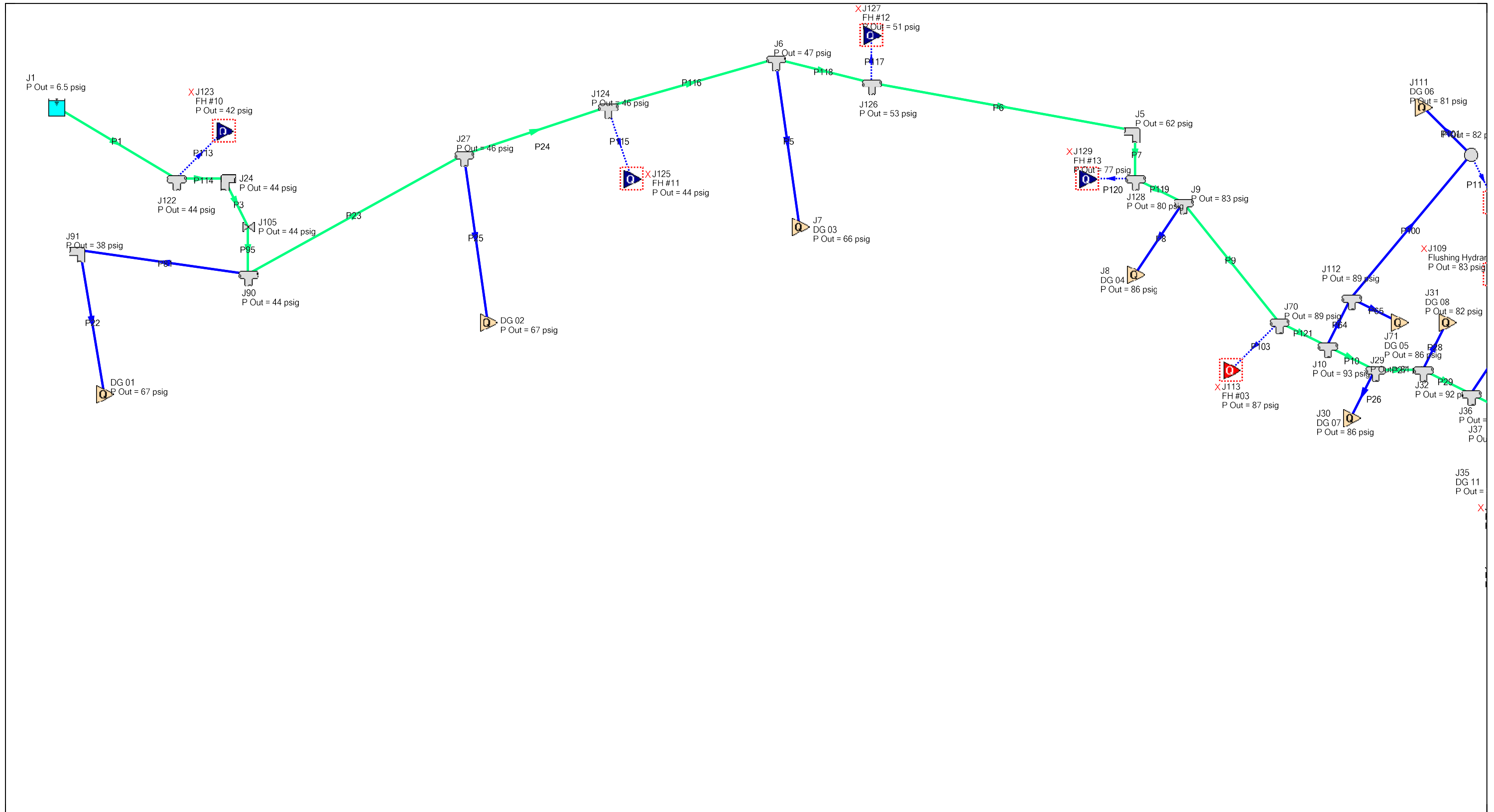


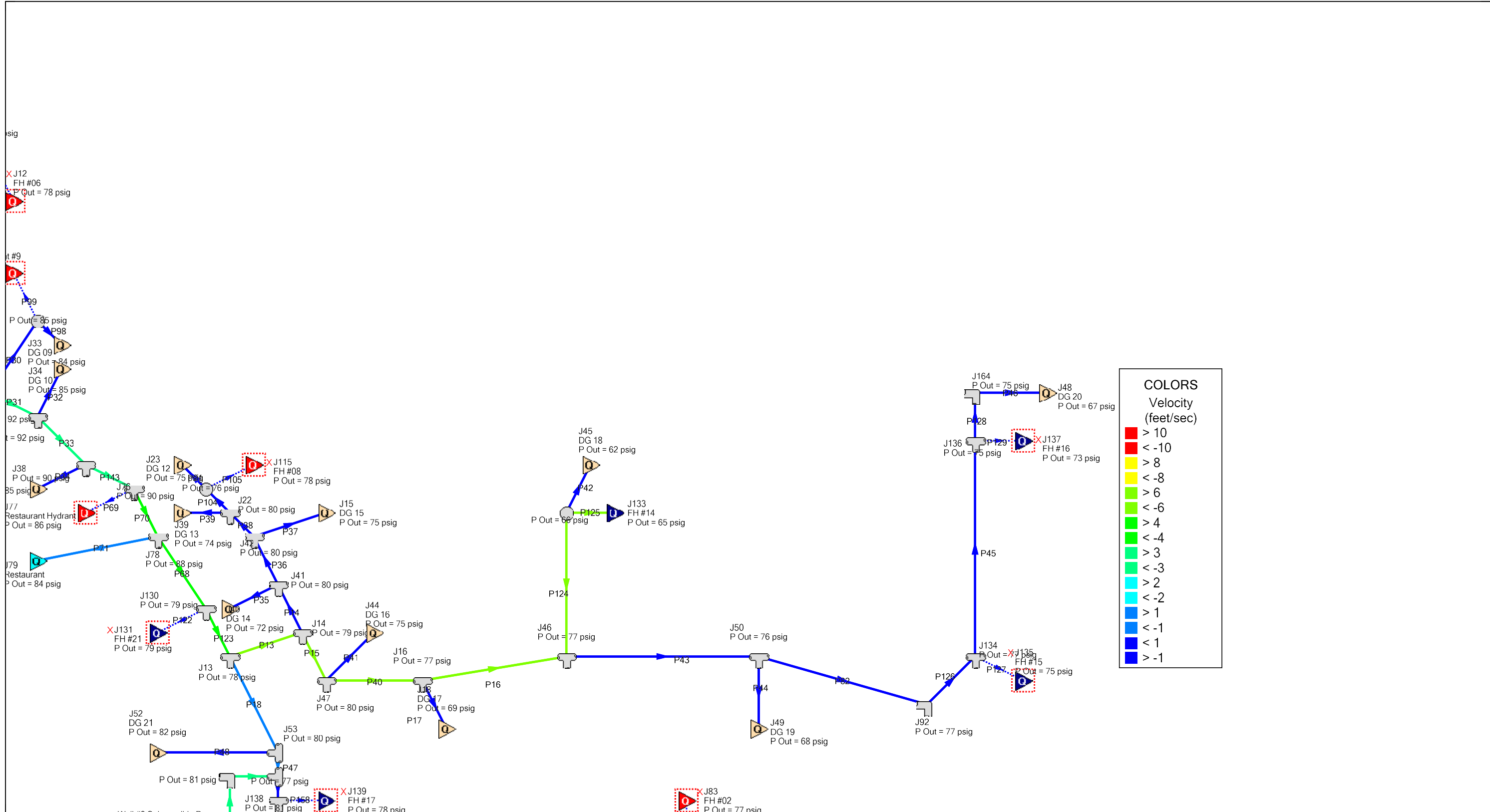


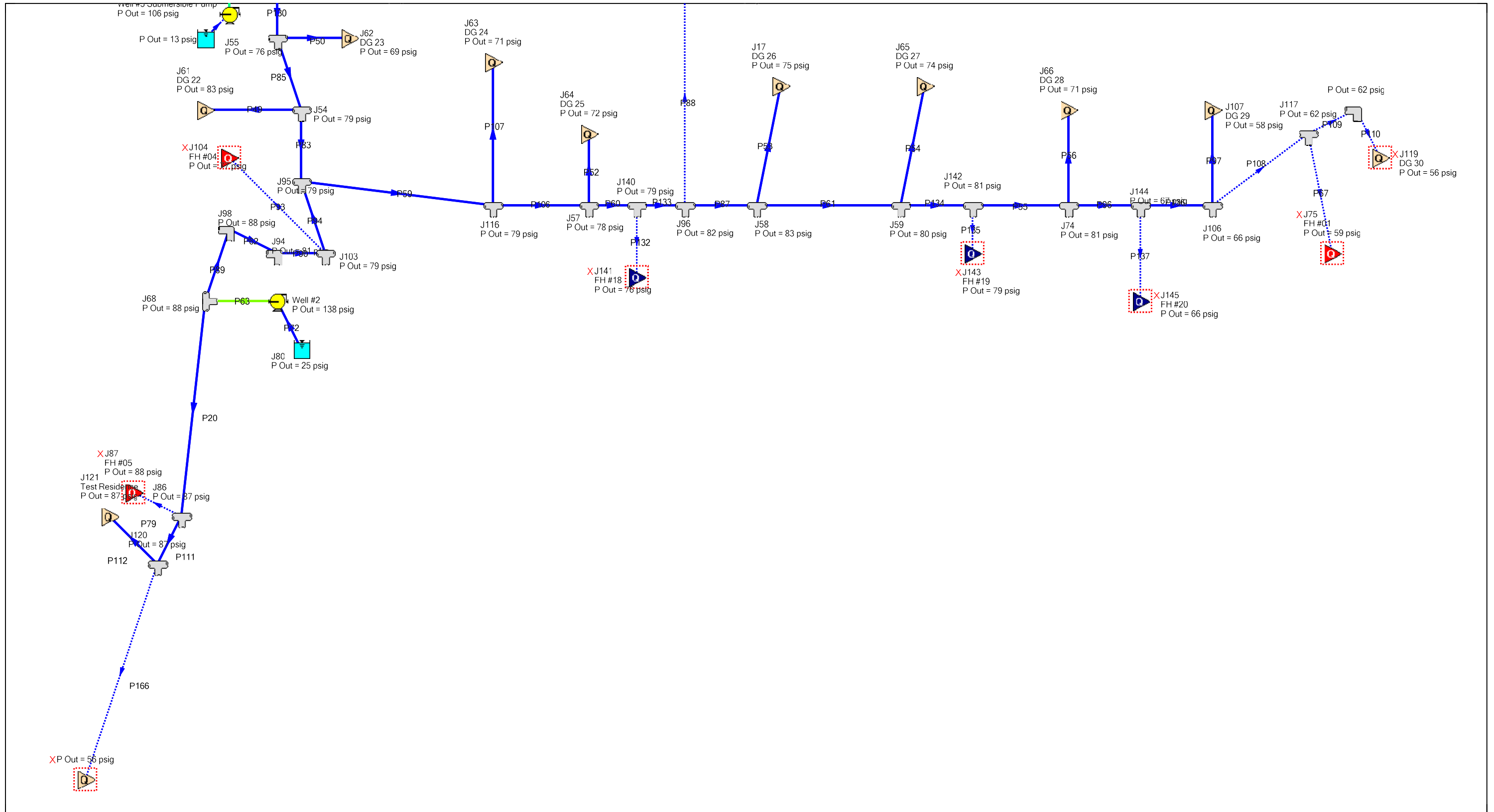
**COLORS**  
Velocity (feet/sec)

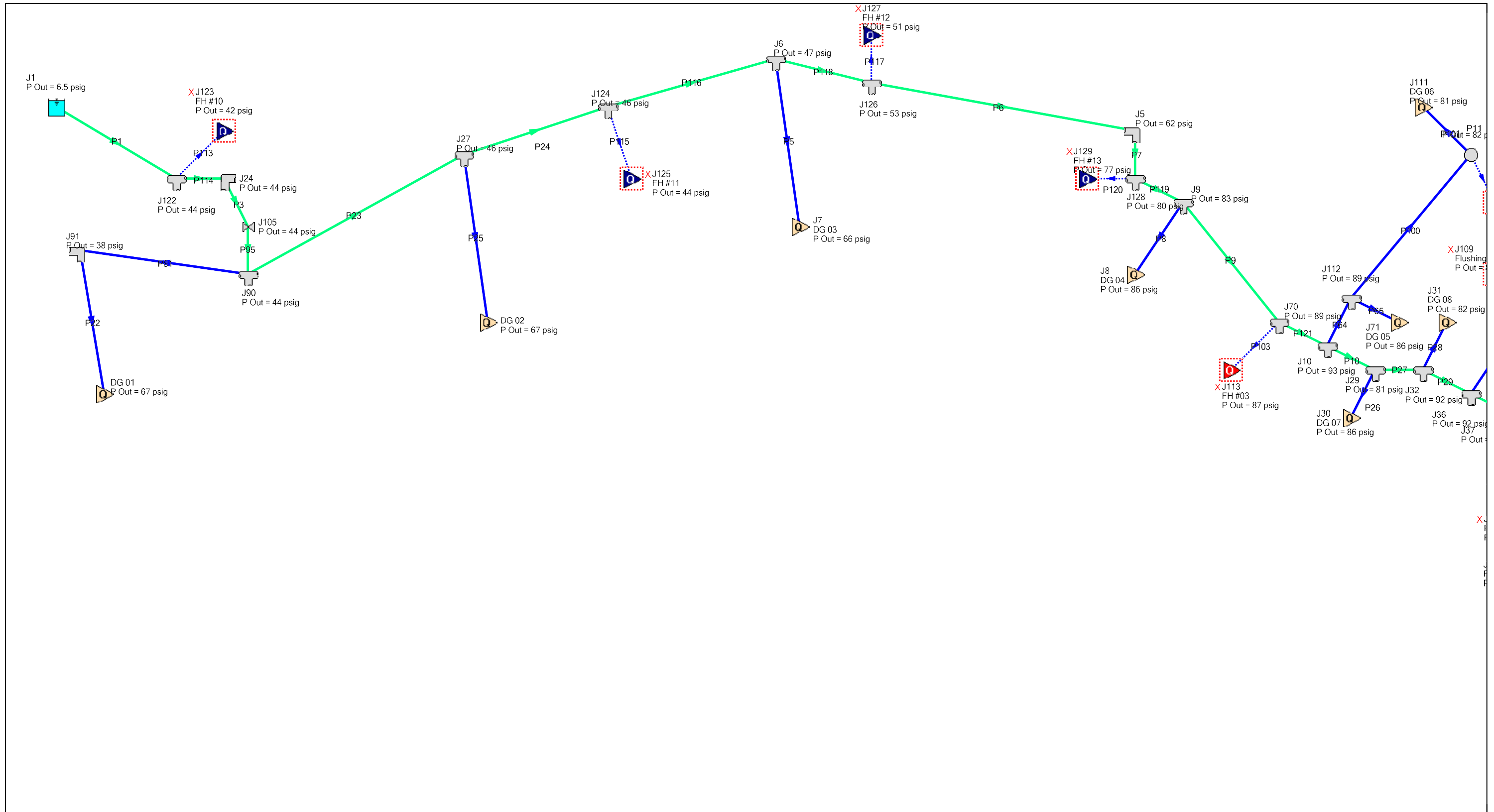
Red	> 10
Dark Red	< -10
Yellow	> 8
Light Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Cyan	> 3
Light Cyan	< -3
Light Blue-Cyan	> 2
Blue-Cyan	< -2
Blue	> 1
Dark Blue	< -1
Very Dark Blue	> -1

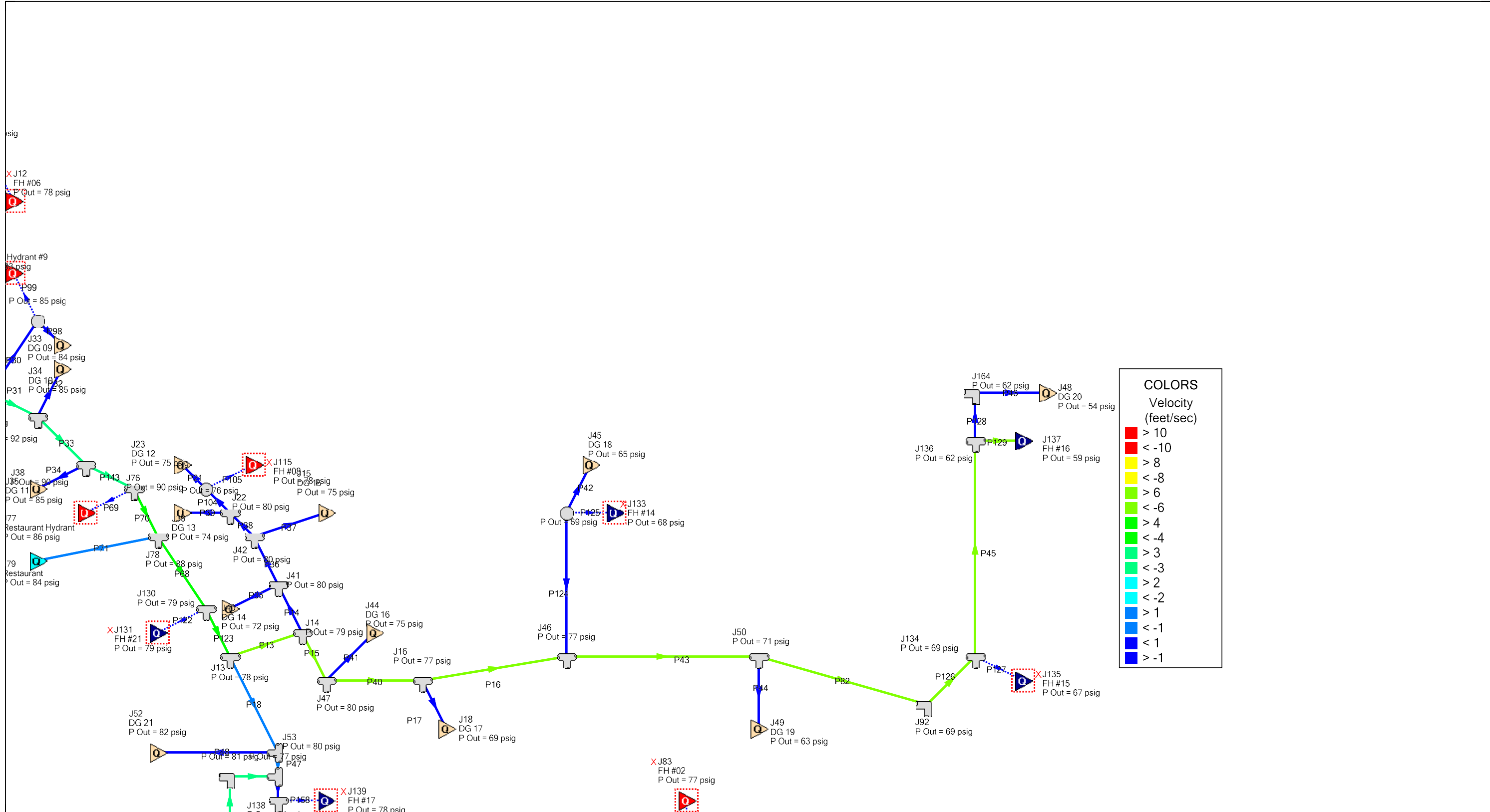


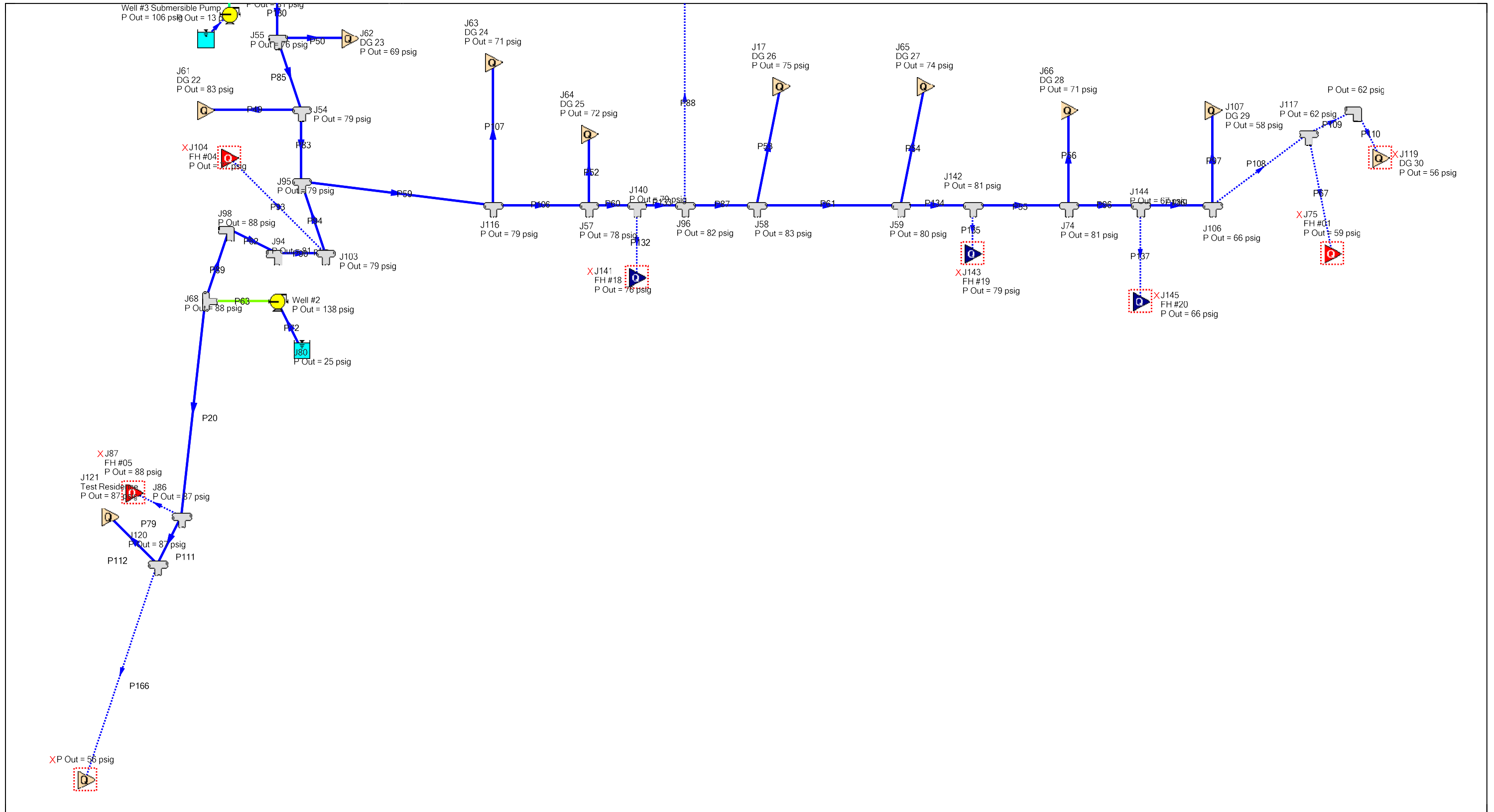


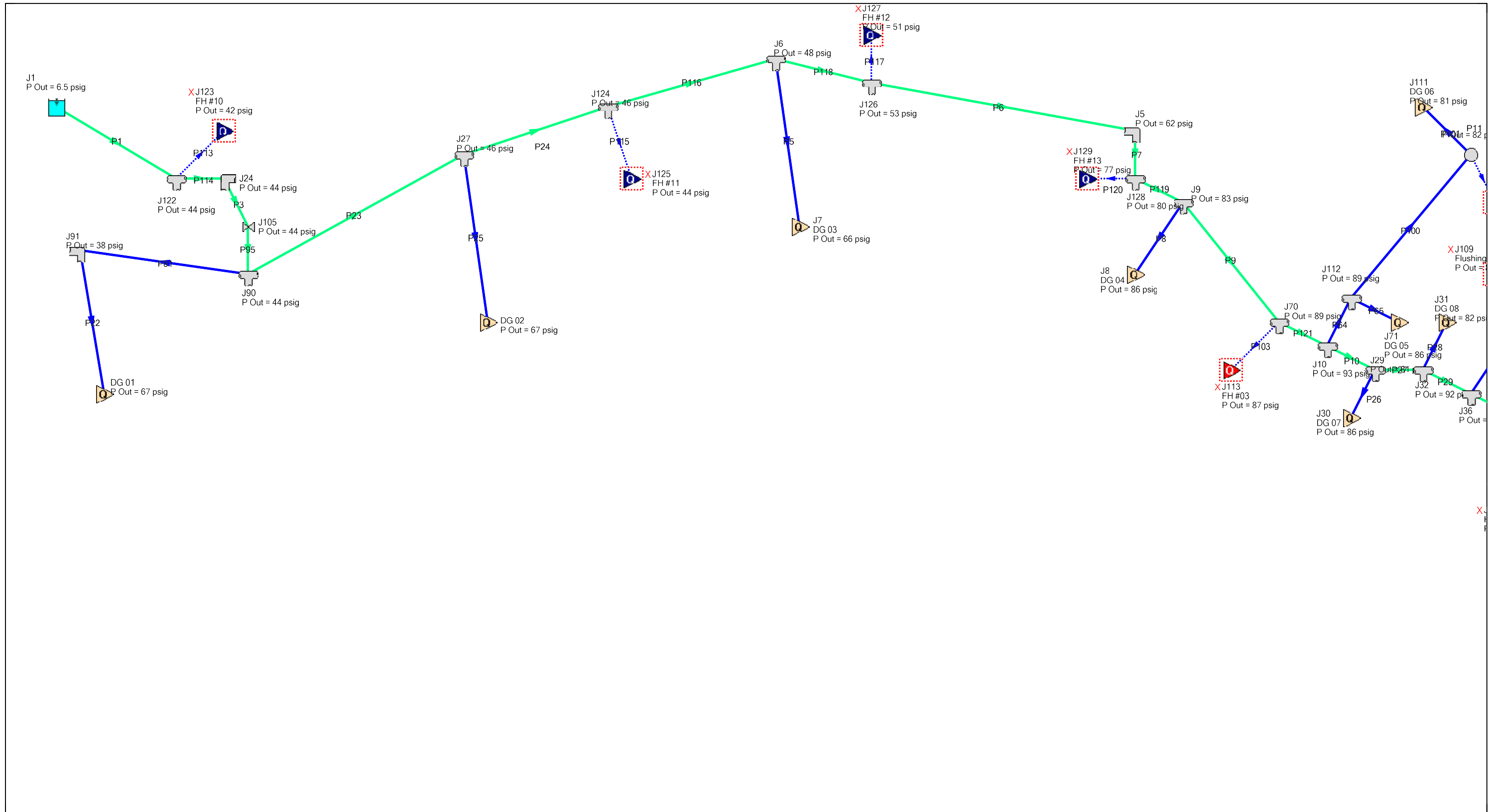


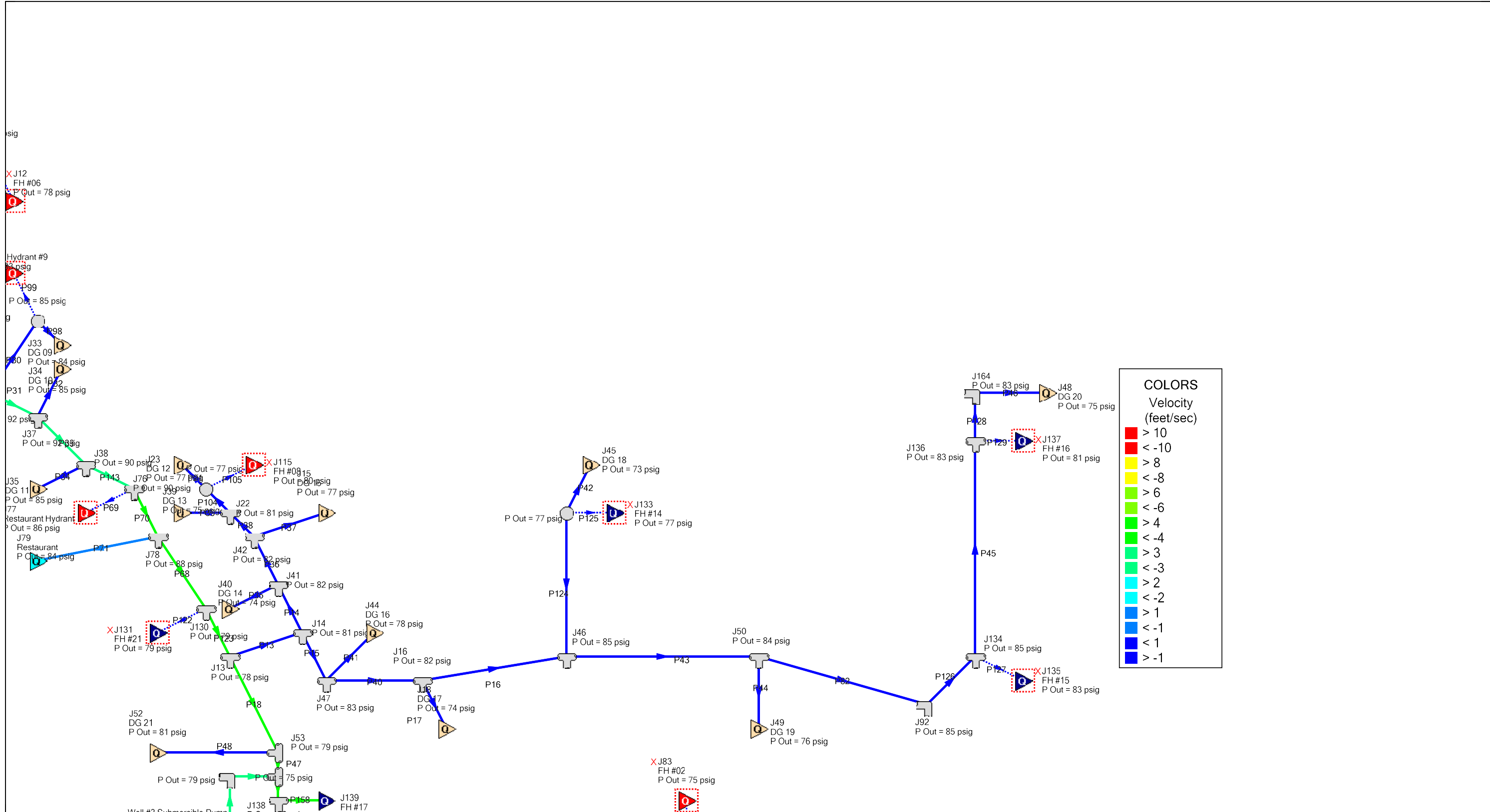


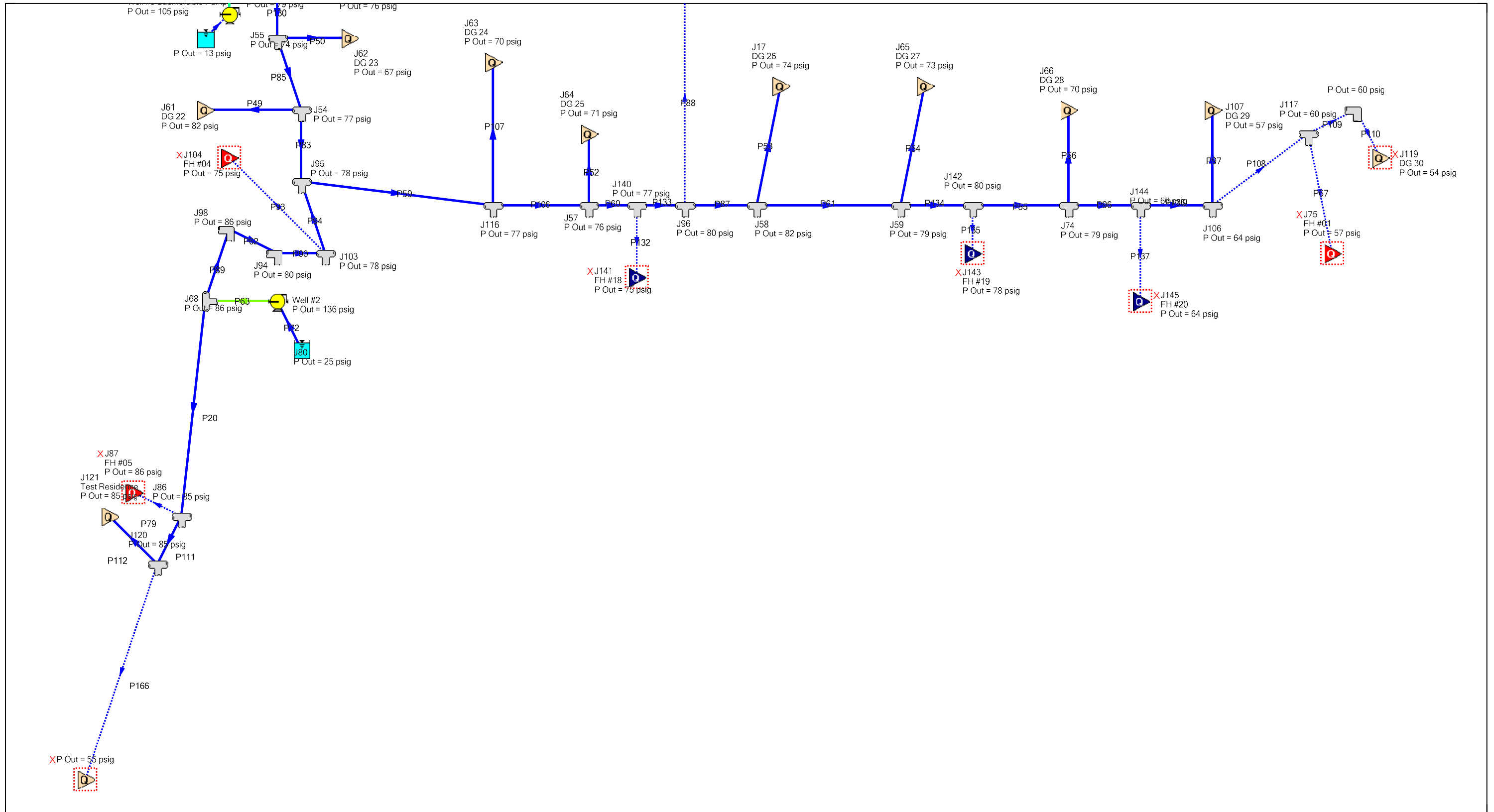


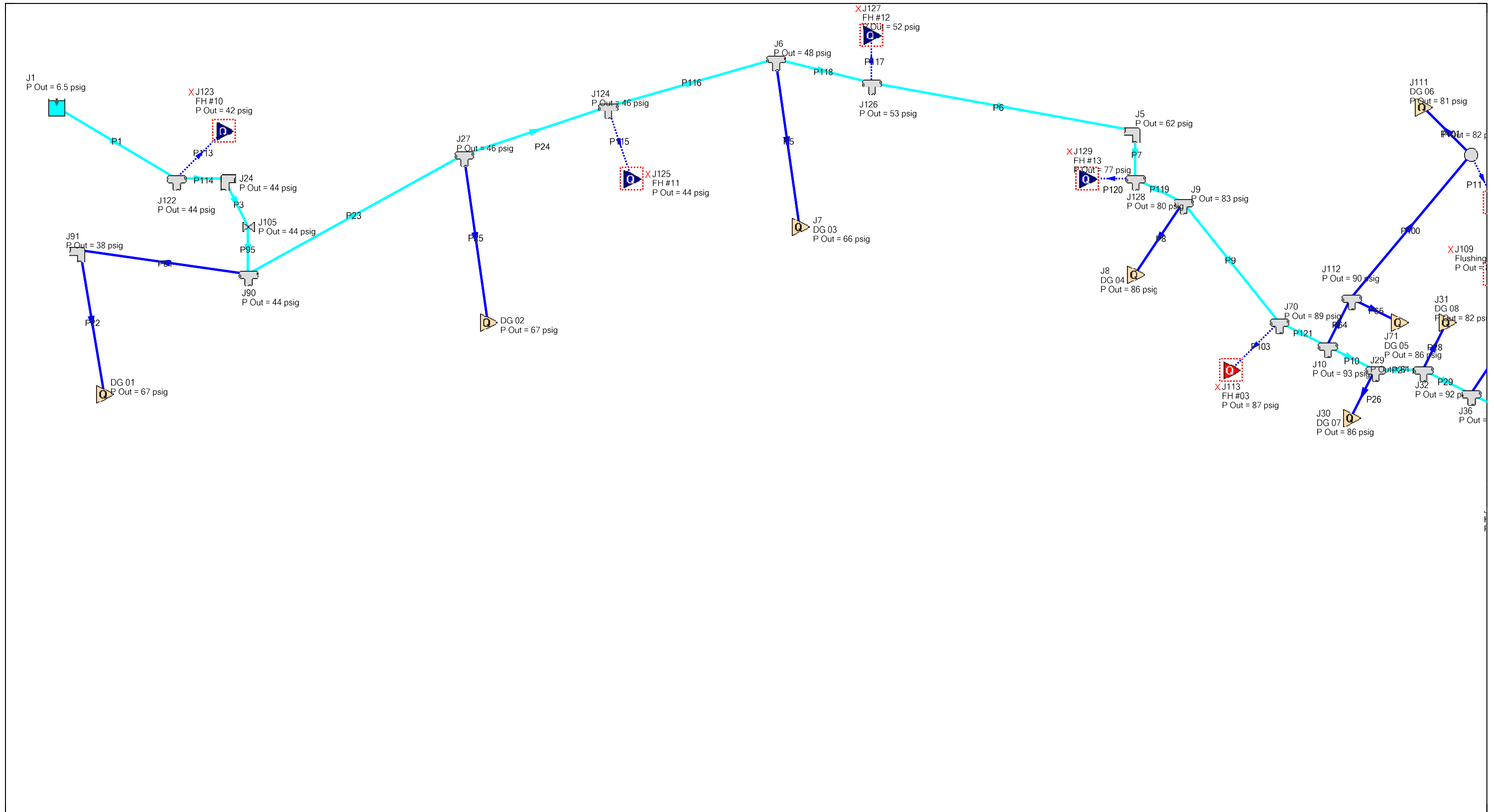


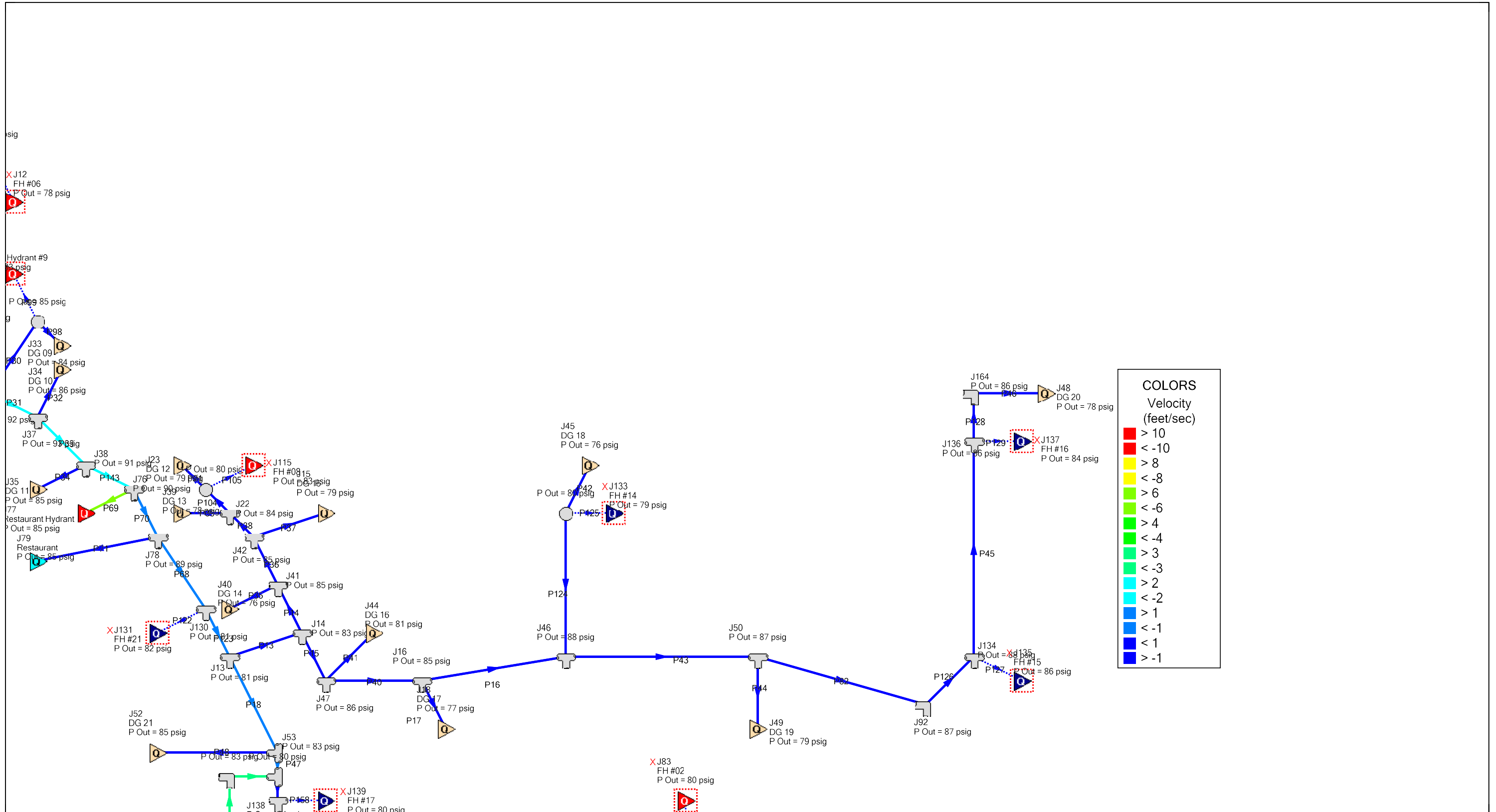










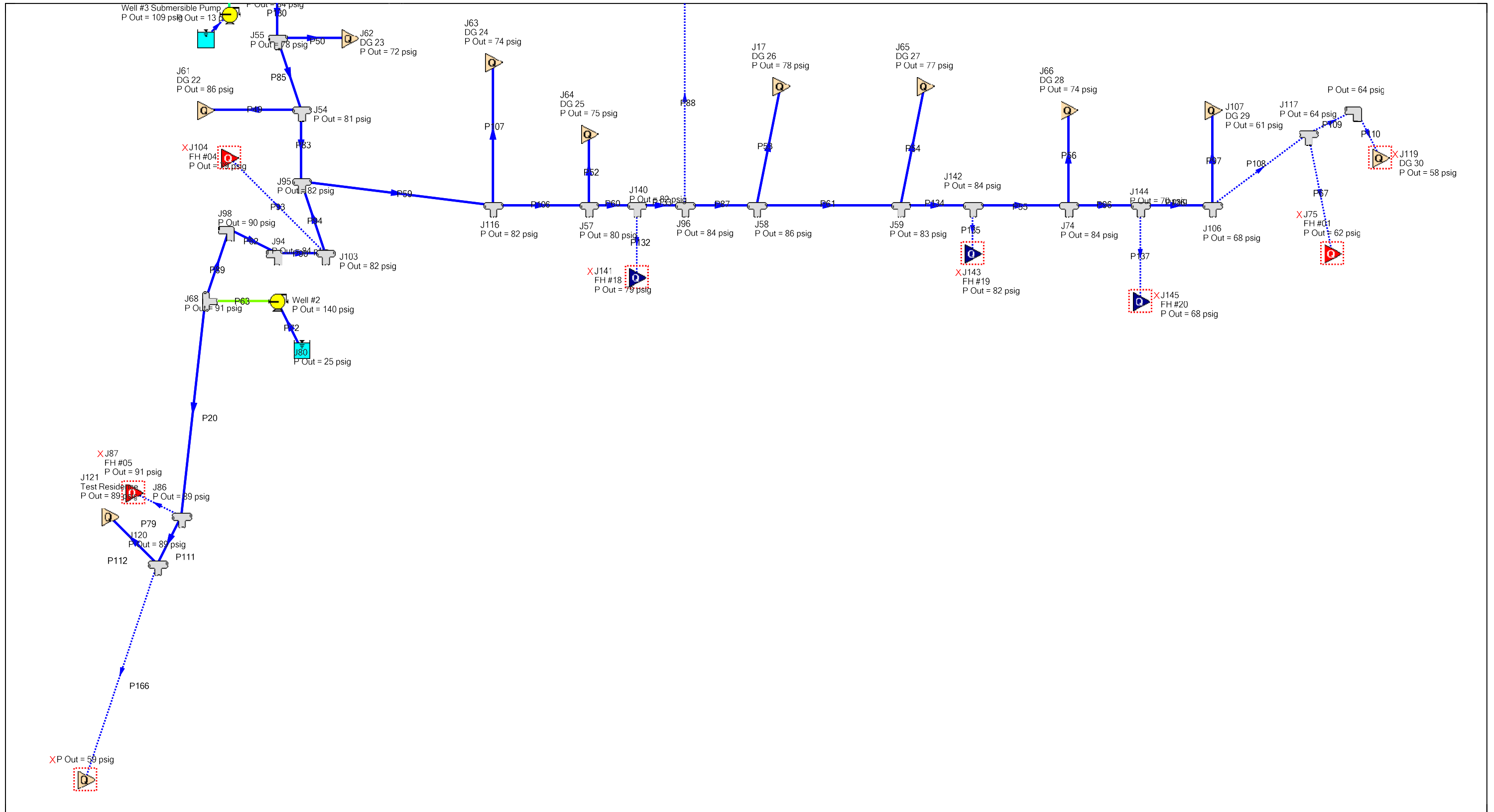


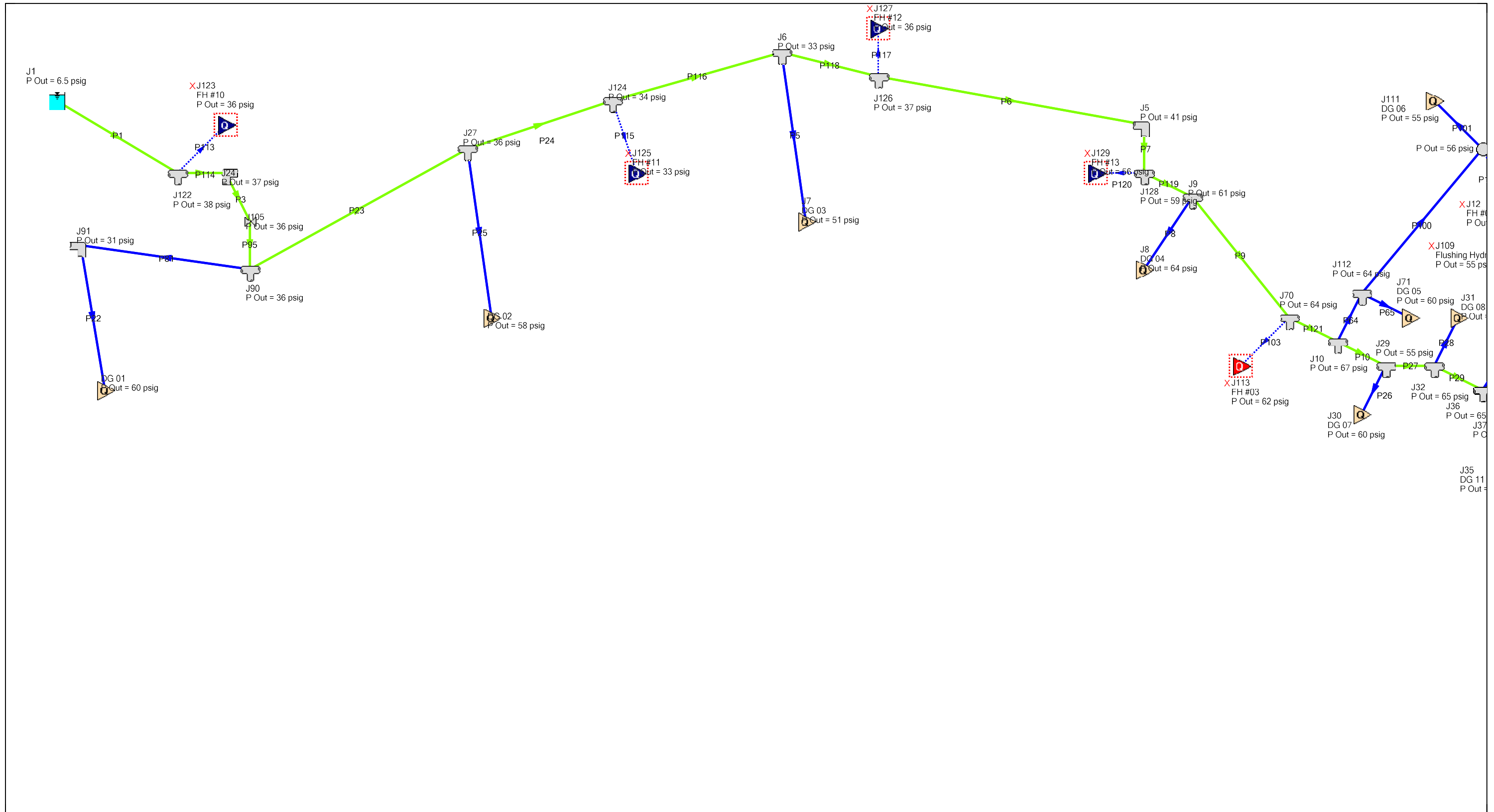
**COLORS**  
Velocity (feet/sec)

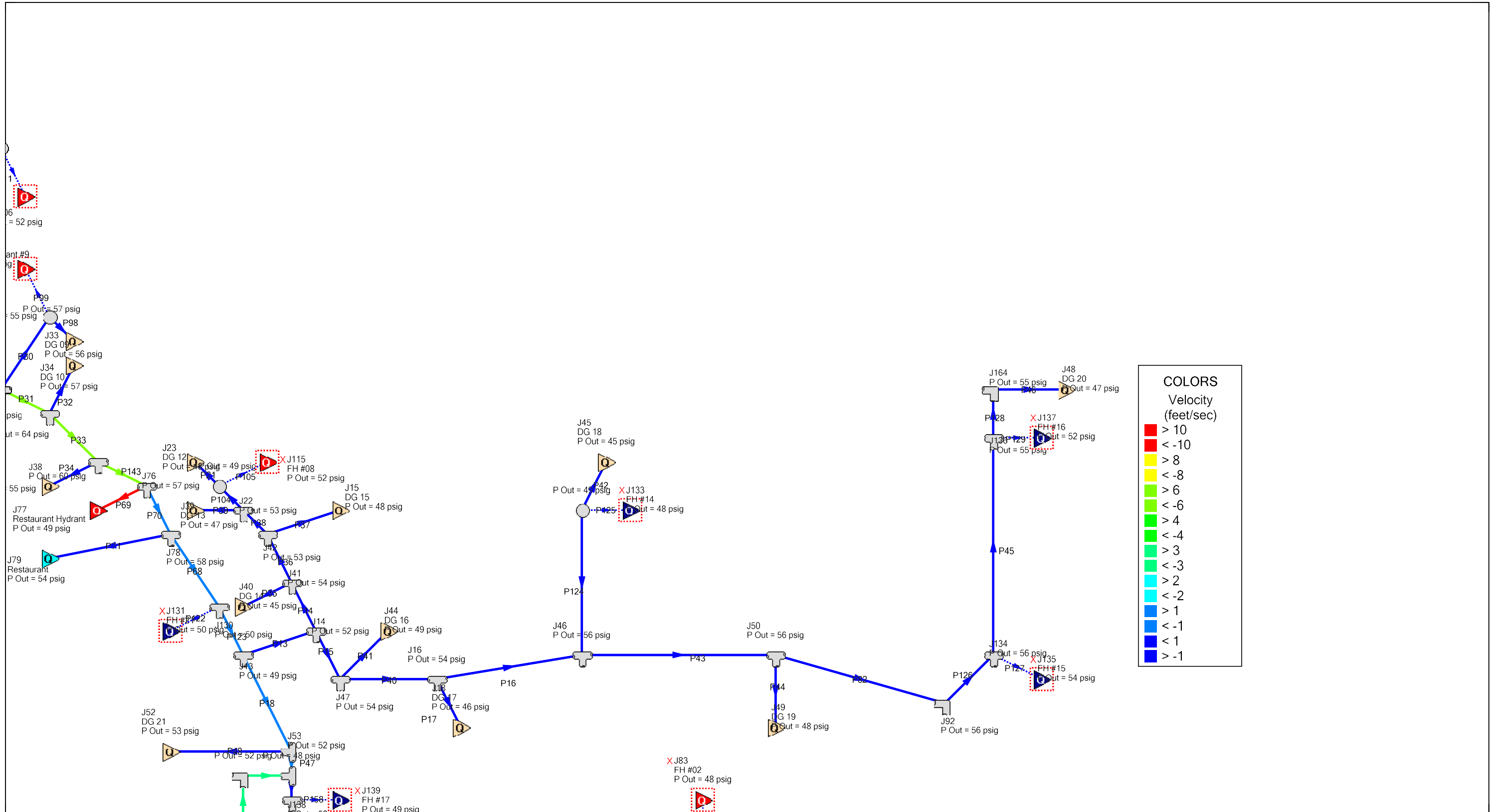
Red	> 10
Dark Red	< -10
Orange	> 8
Yellow	< -8
Light Green	> 6
Green	< -6
Light Blue	> 4
Blue	< -4
Dark Blue	> 3
Very Dark Blue	< -3
Black	> 2
Dark Grey	< -2
Light Grey	> 1
White	< -1
Black	> -1
Dark Grey	< -1

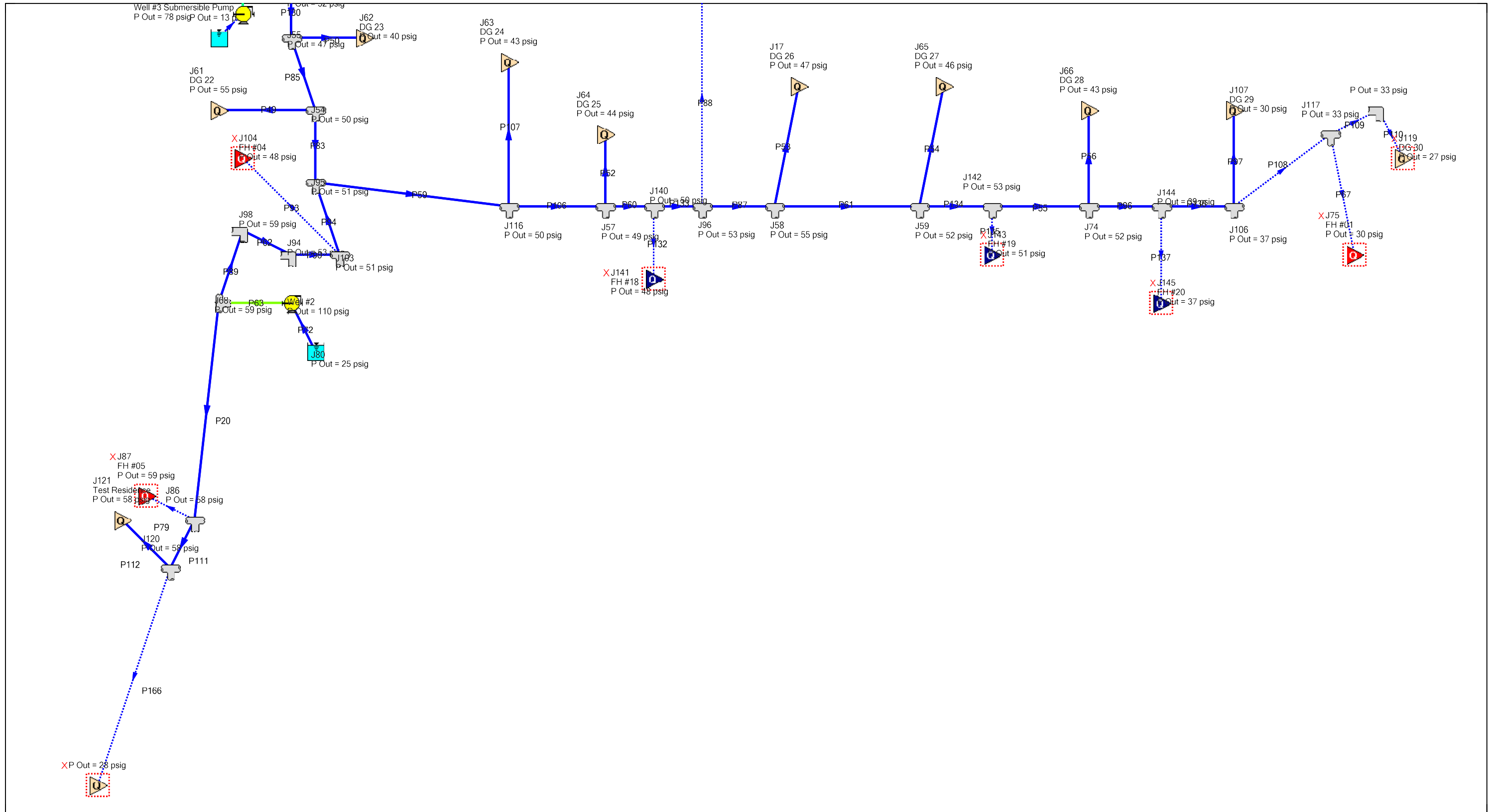
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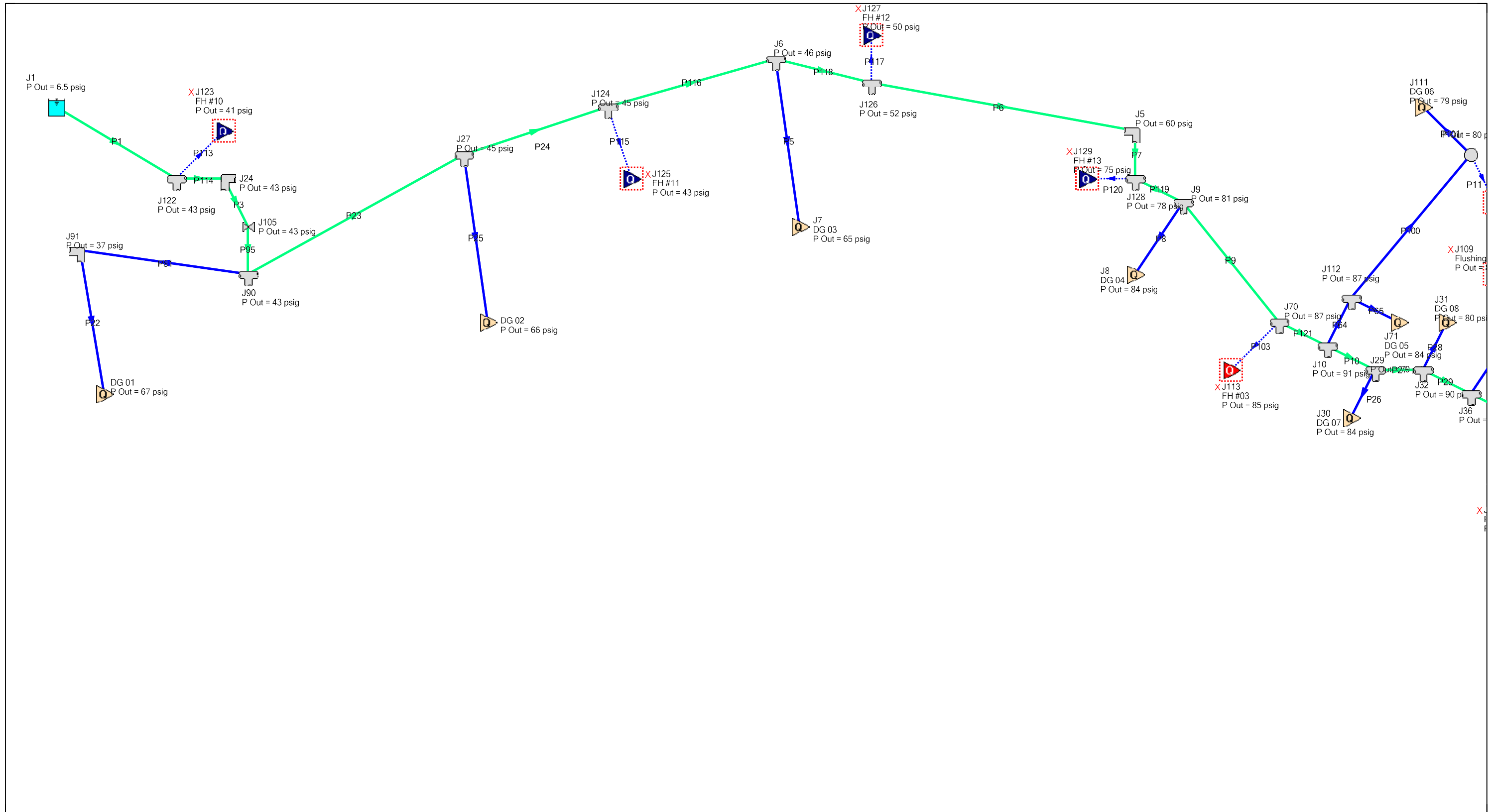
Future Upgrades to Existing Alignments  
No Pipe Loop Additions  
500 gpm at the Restaurant Hydrant

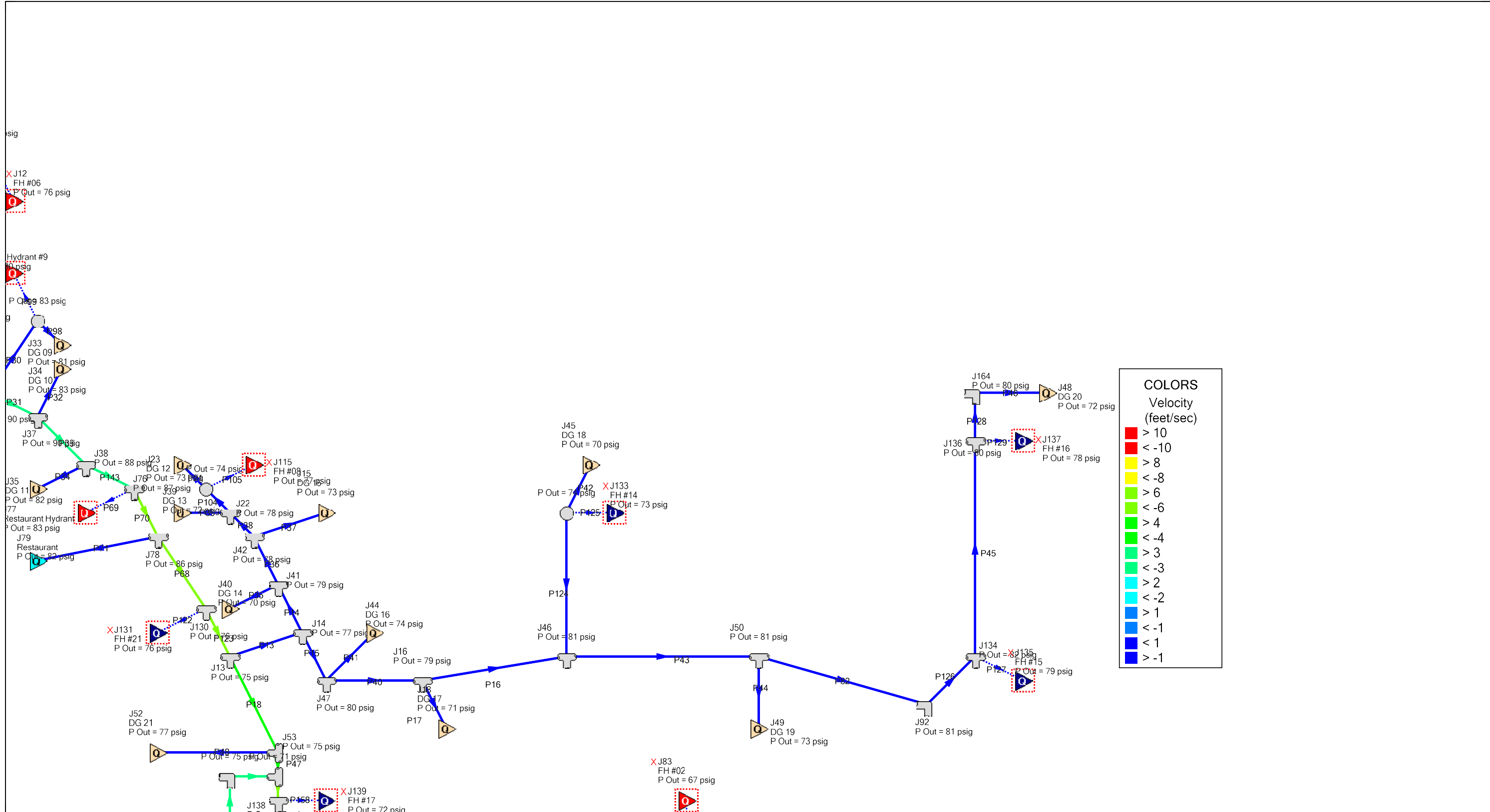






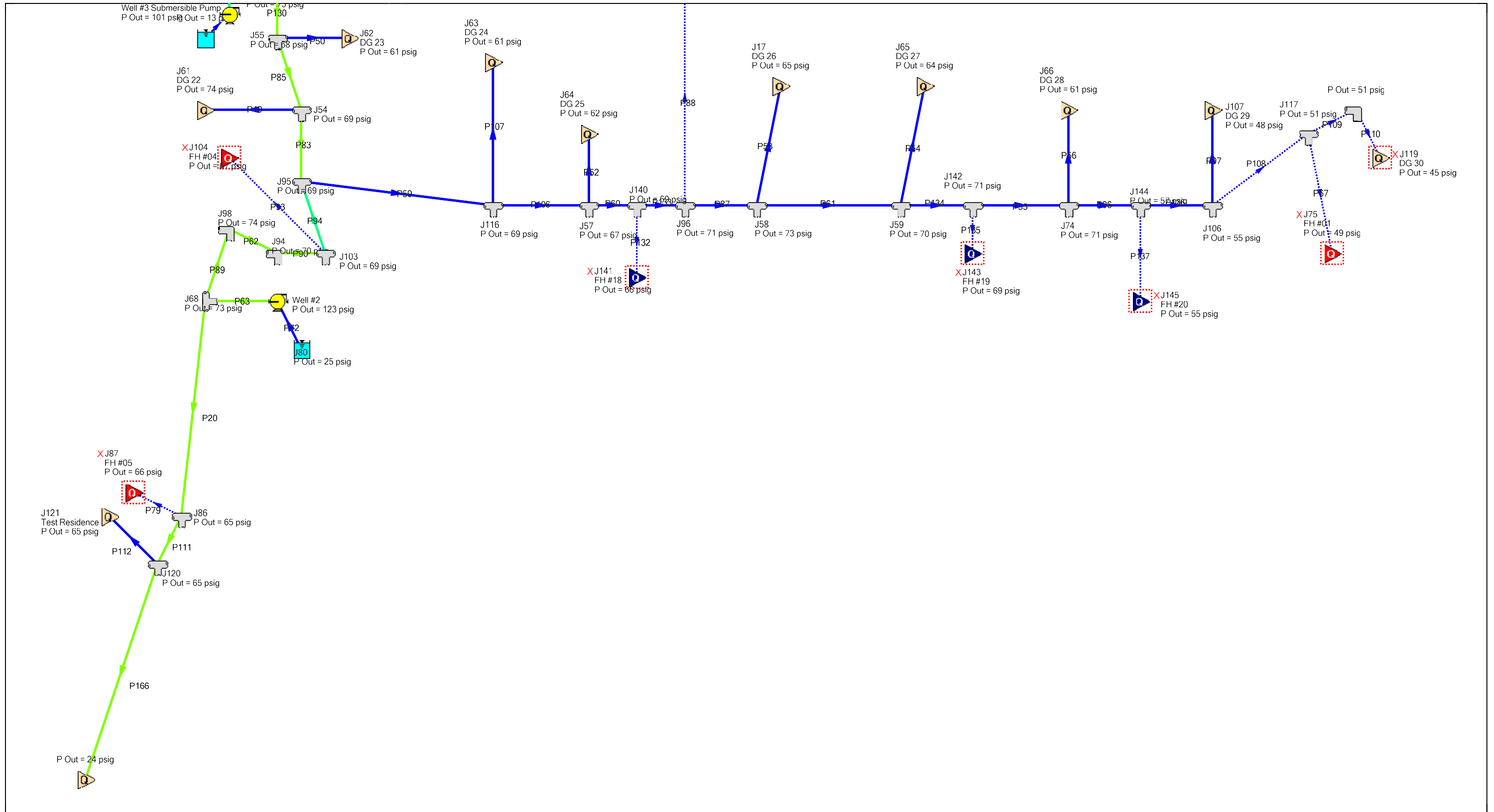


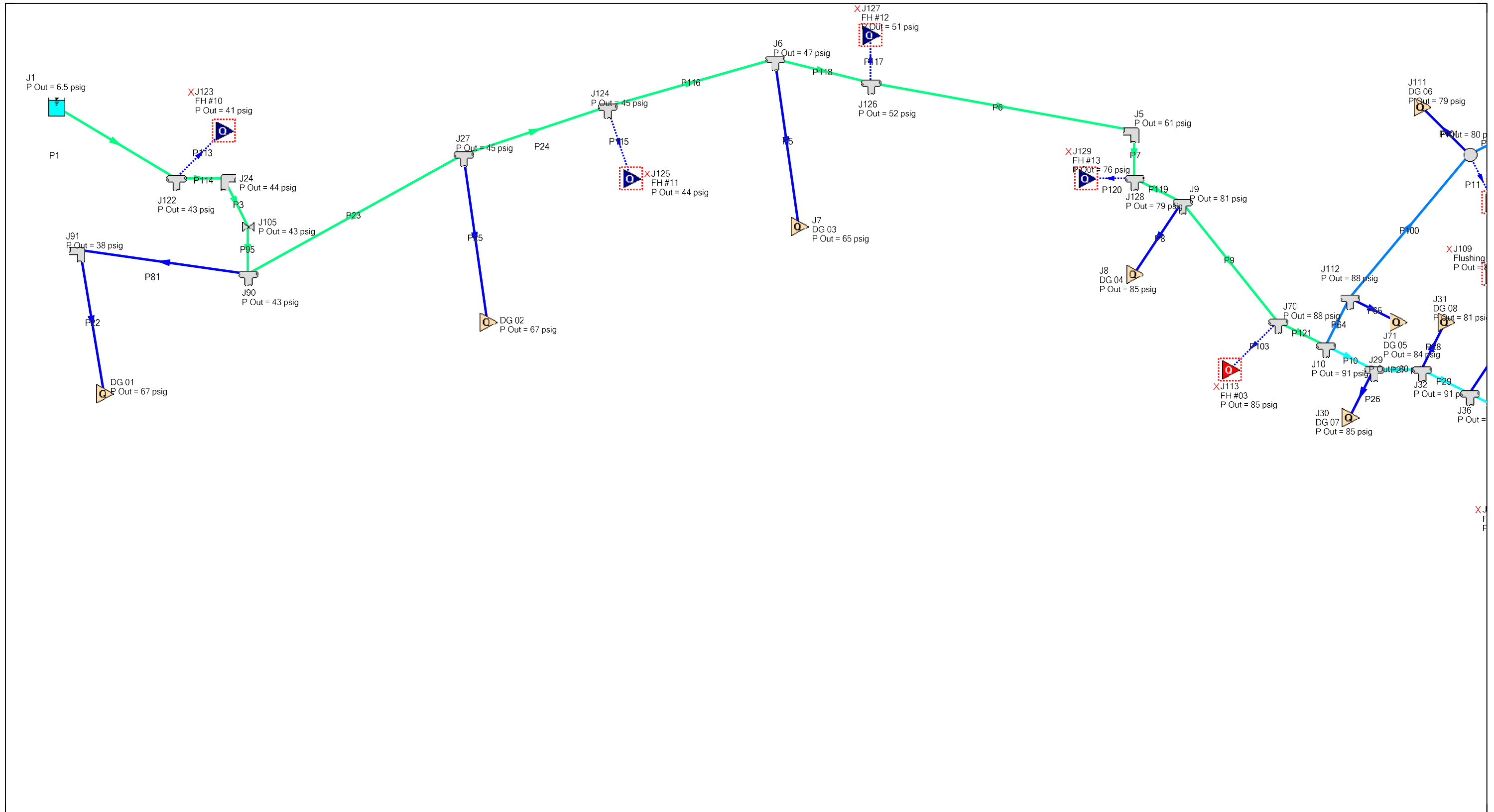


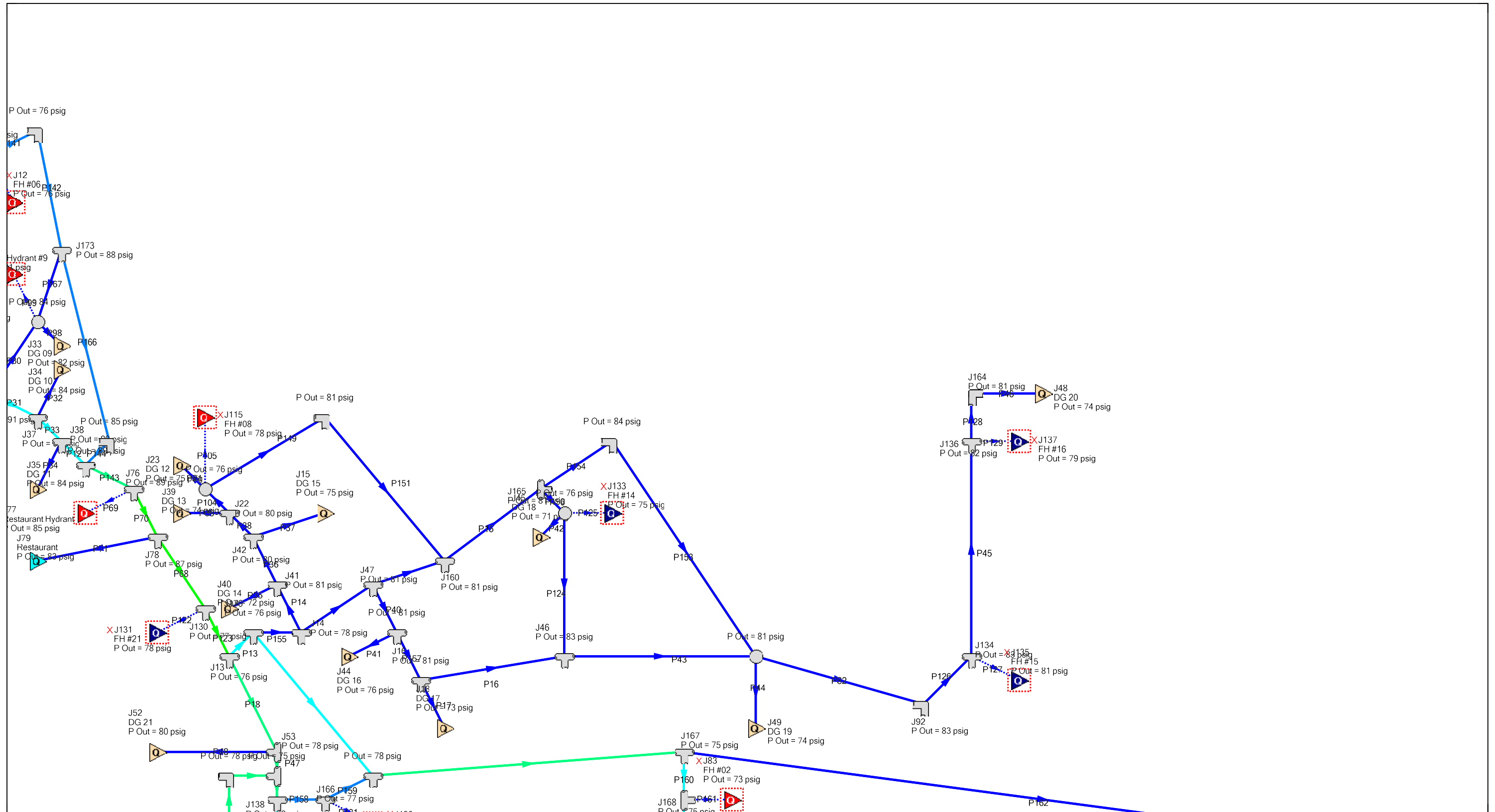


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Future Upgrades to Existing Alignments  
 No Pipe Loop Additions  
 600 gpm at the Tanglefoot Hydrant

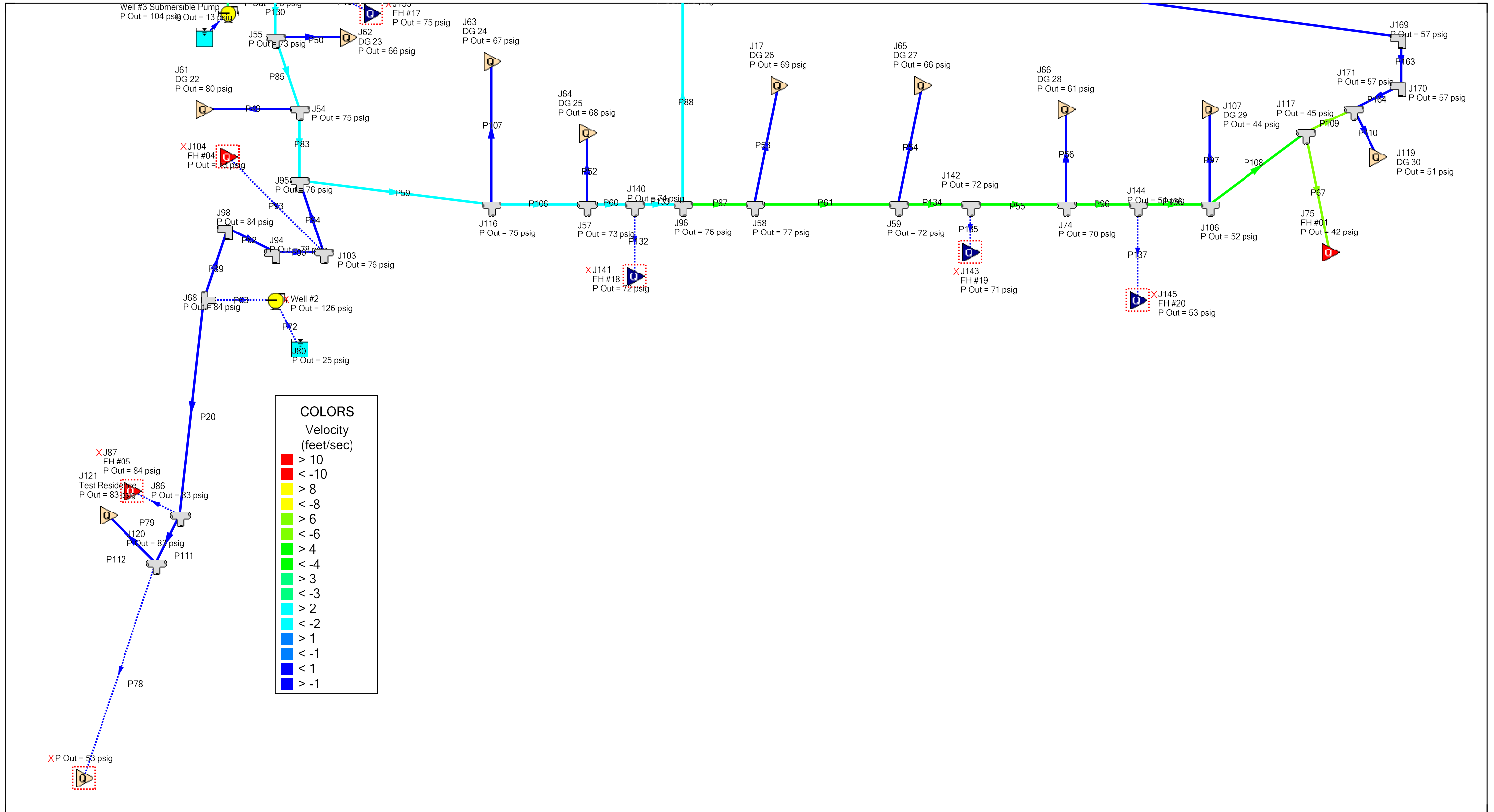


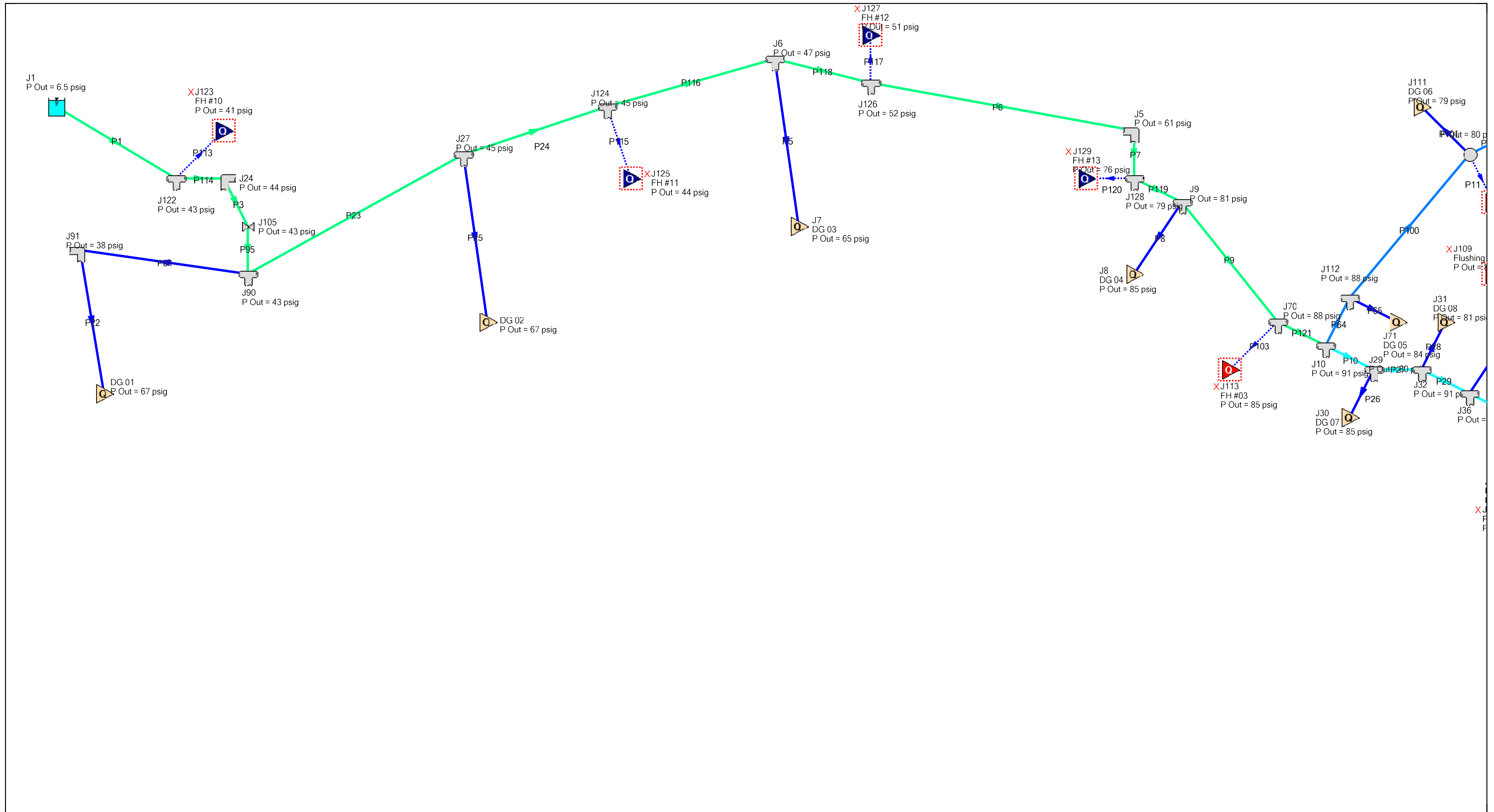


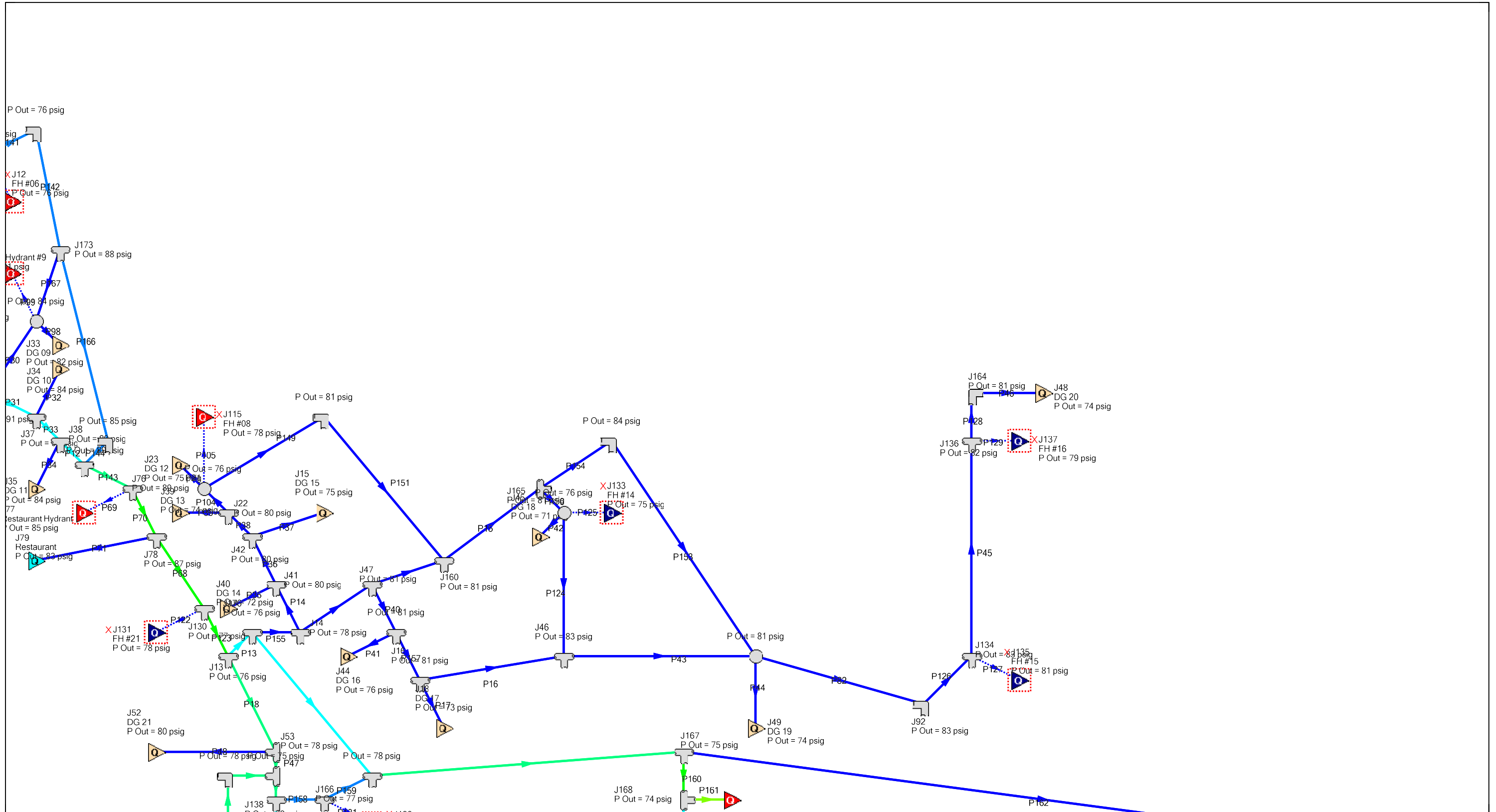


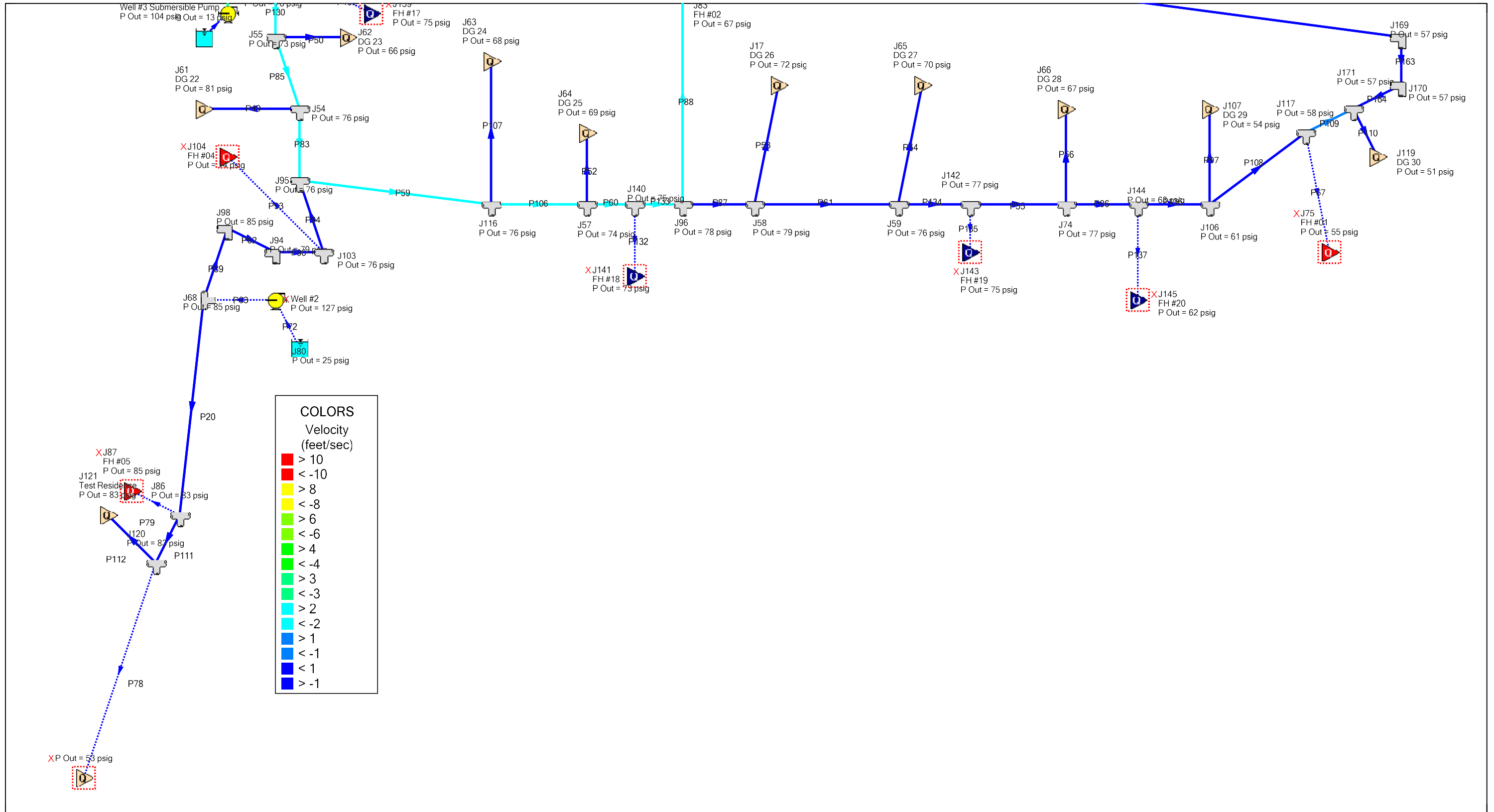
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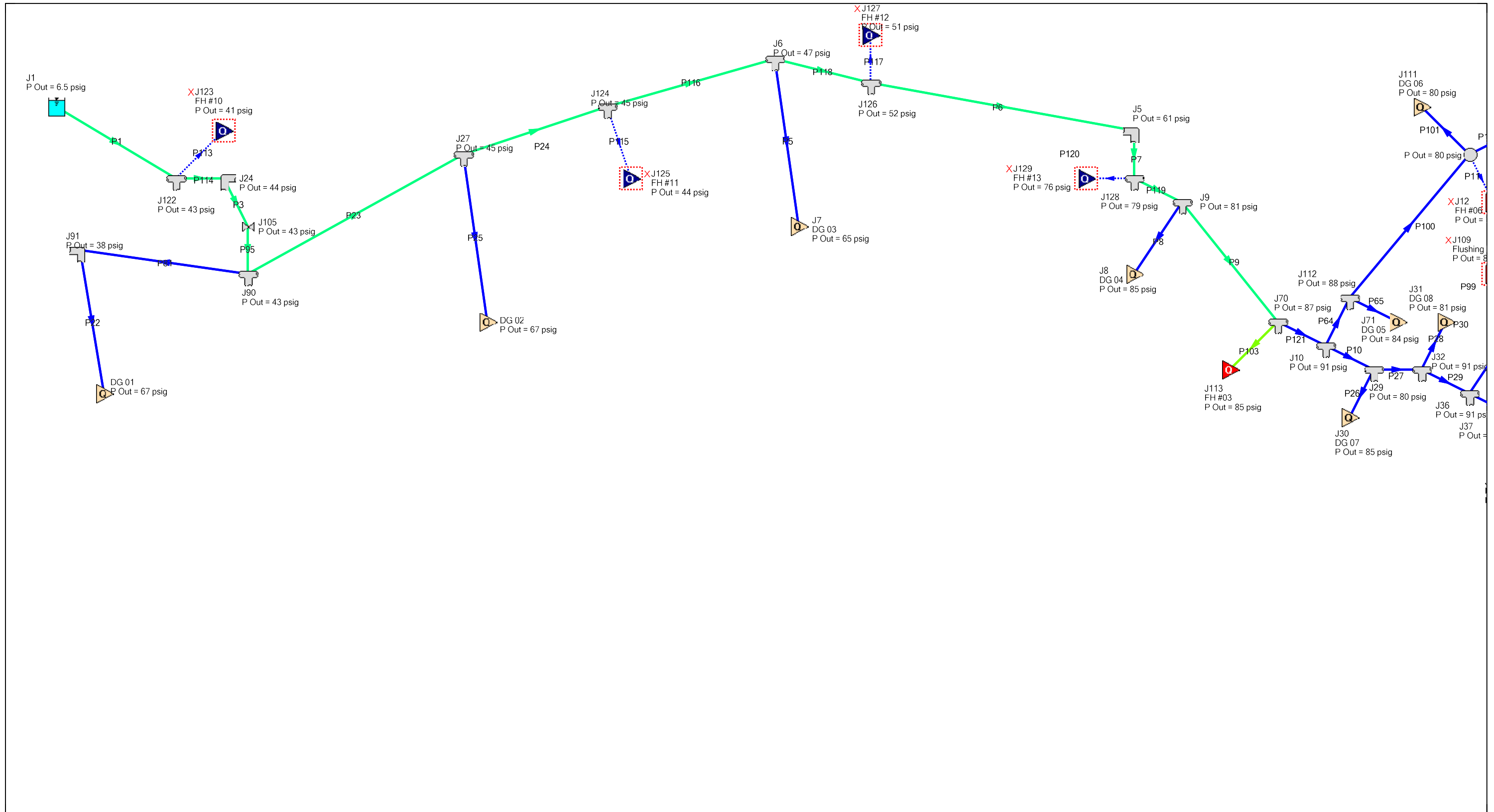
Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #1

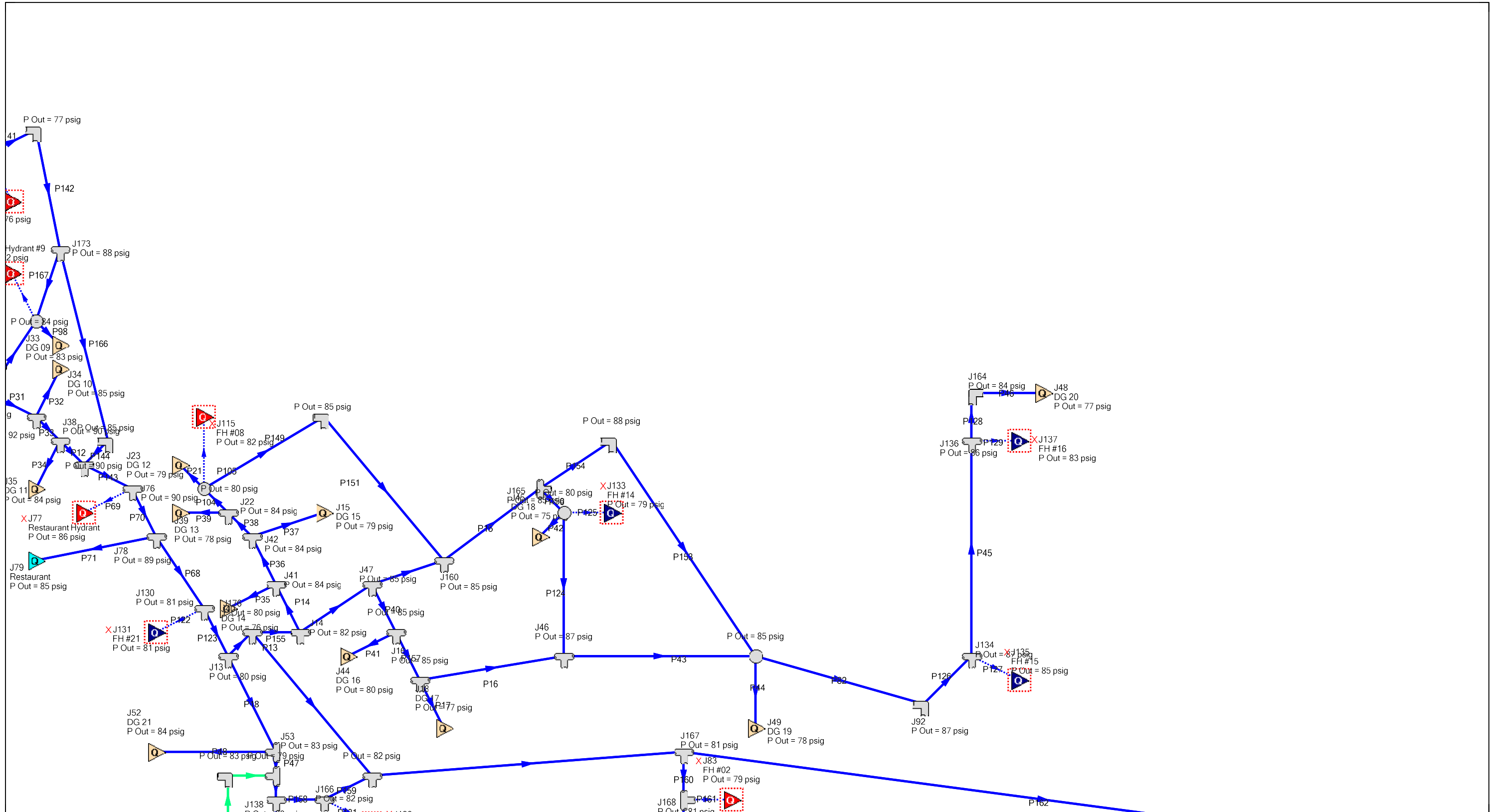






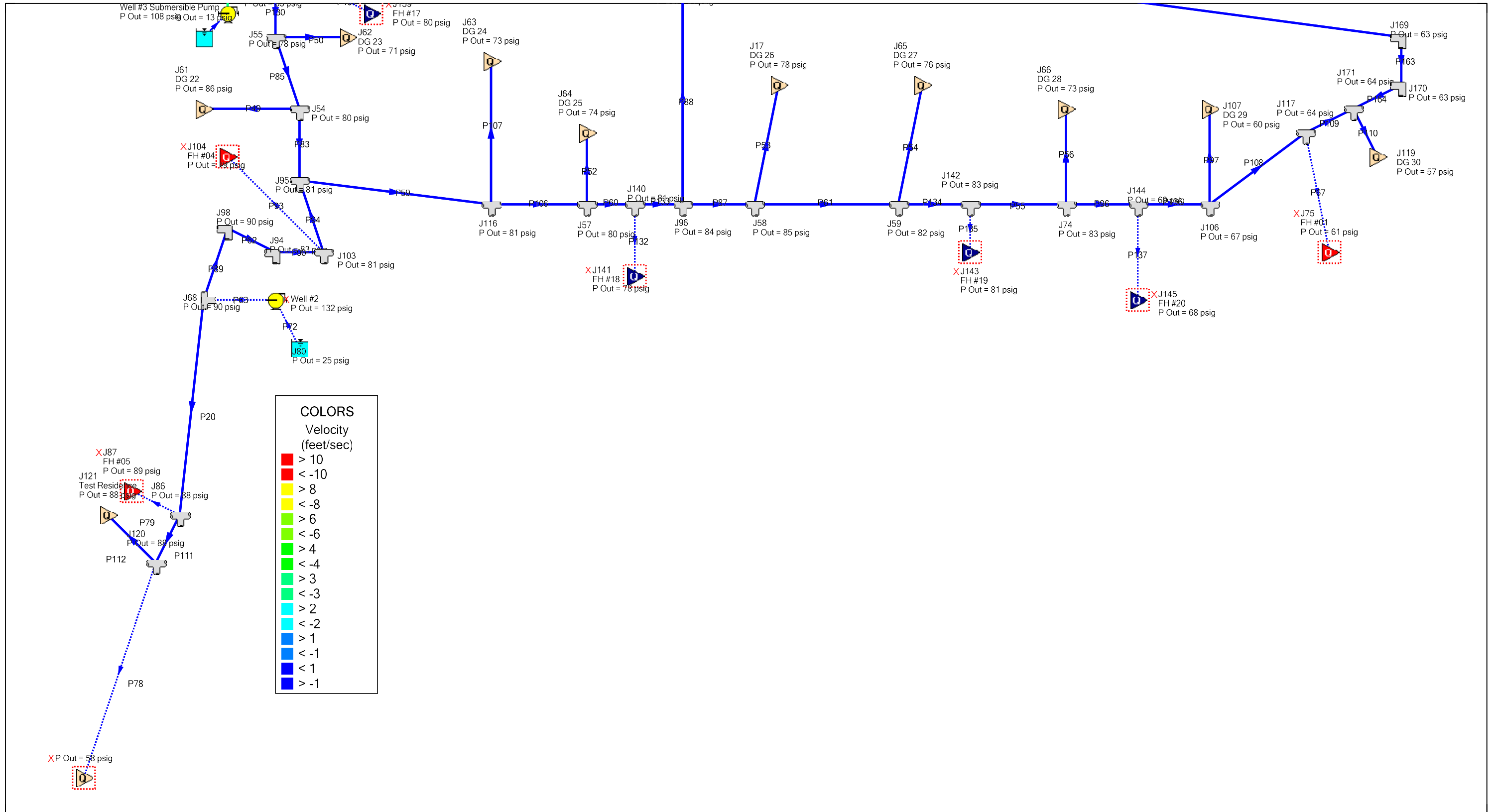


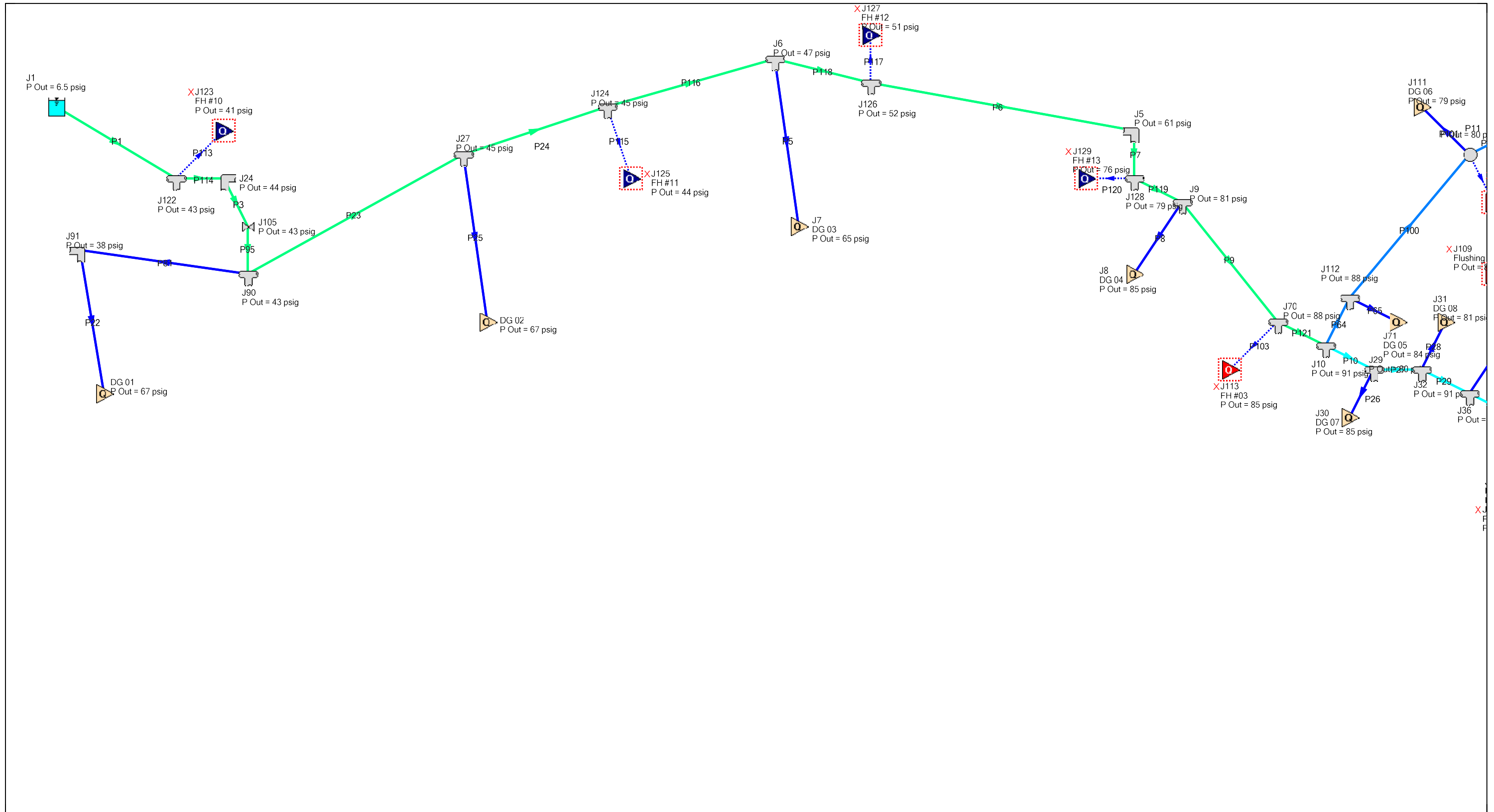


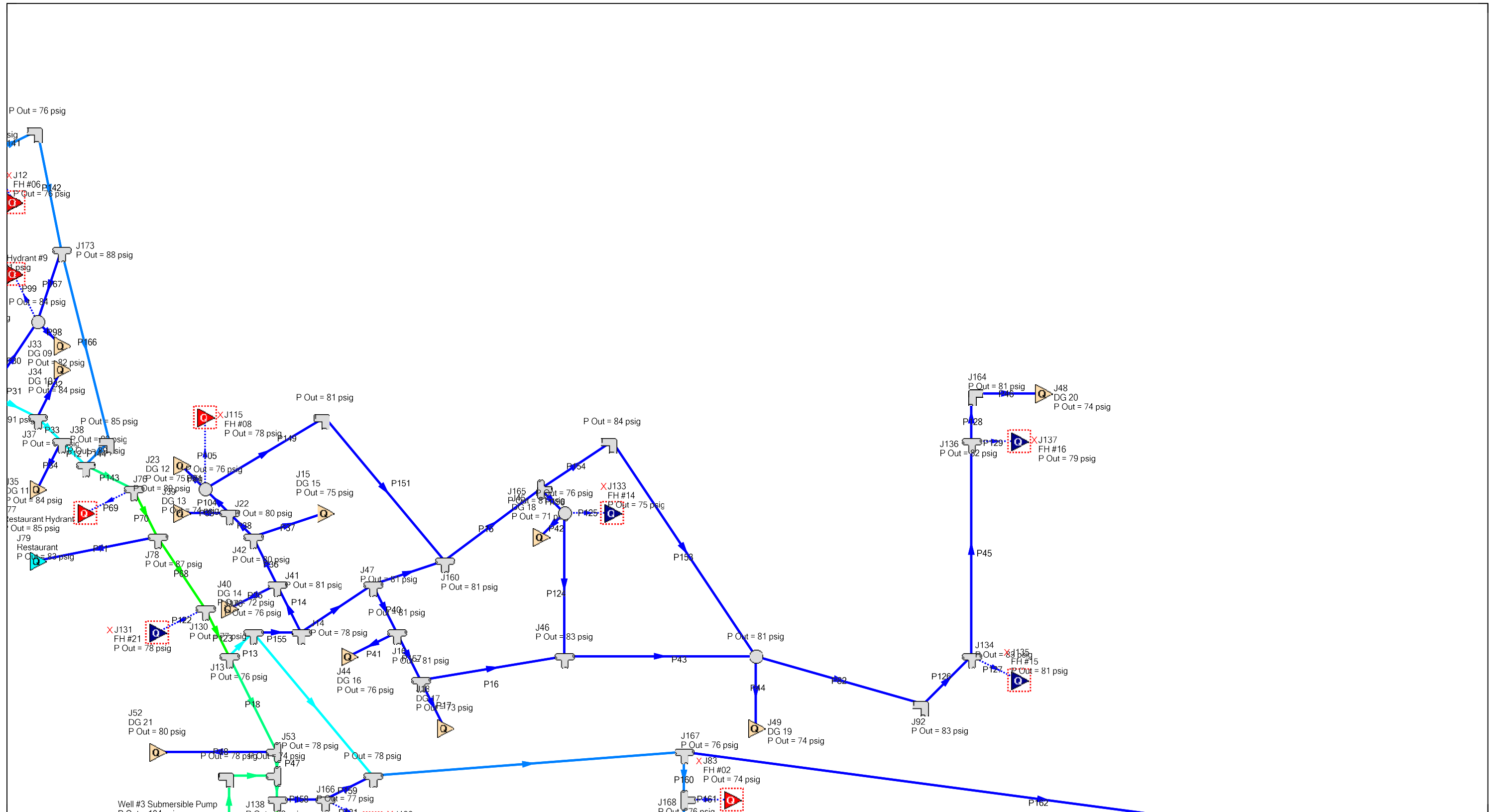


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Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #3

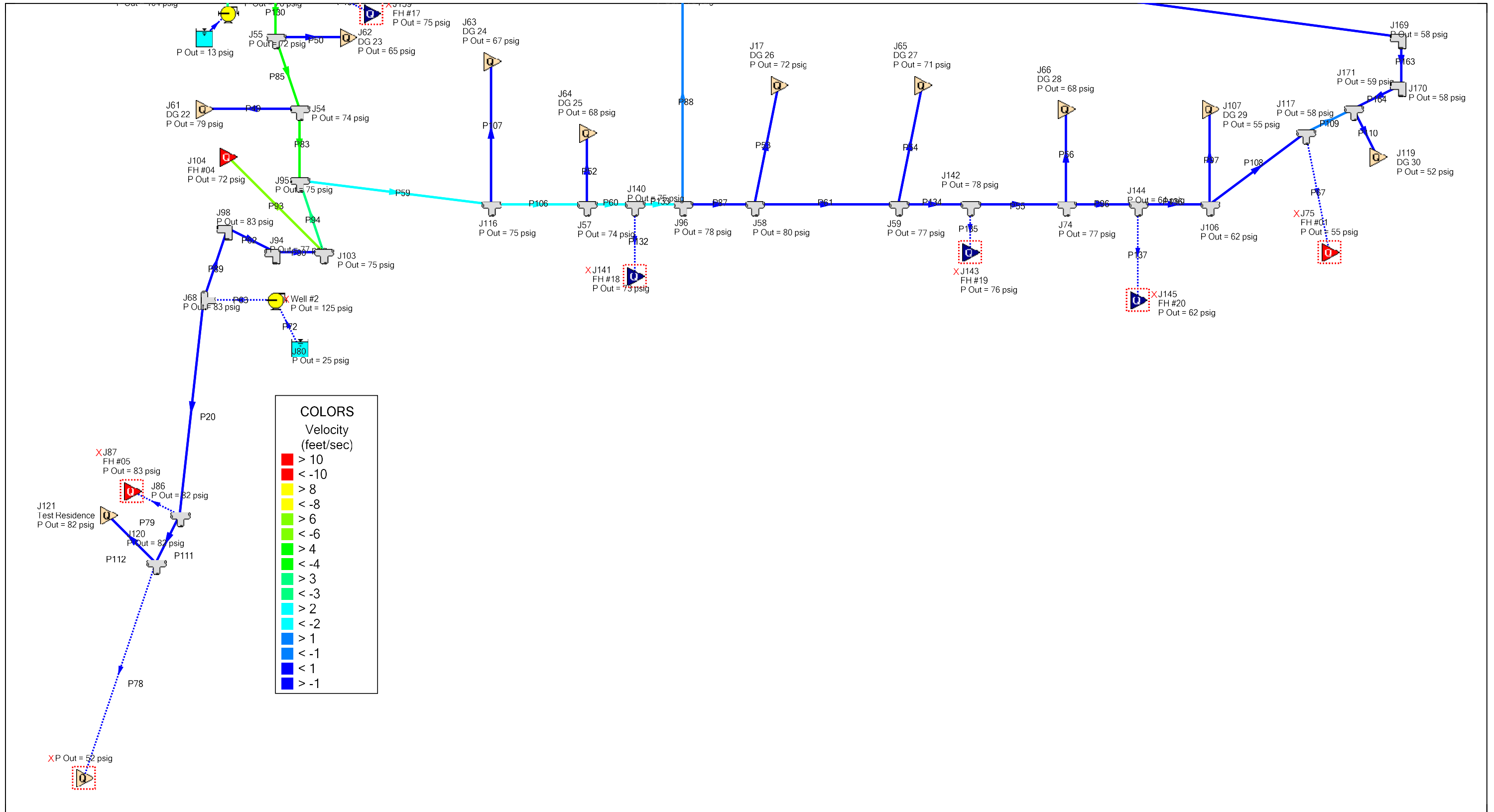


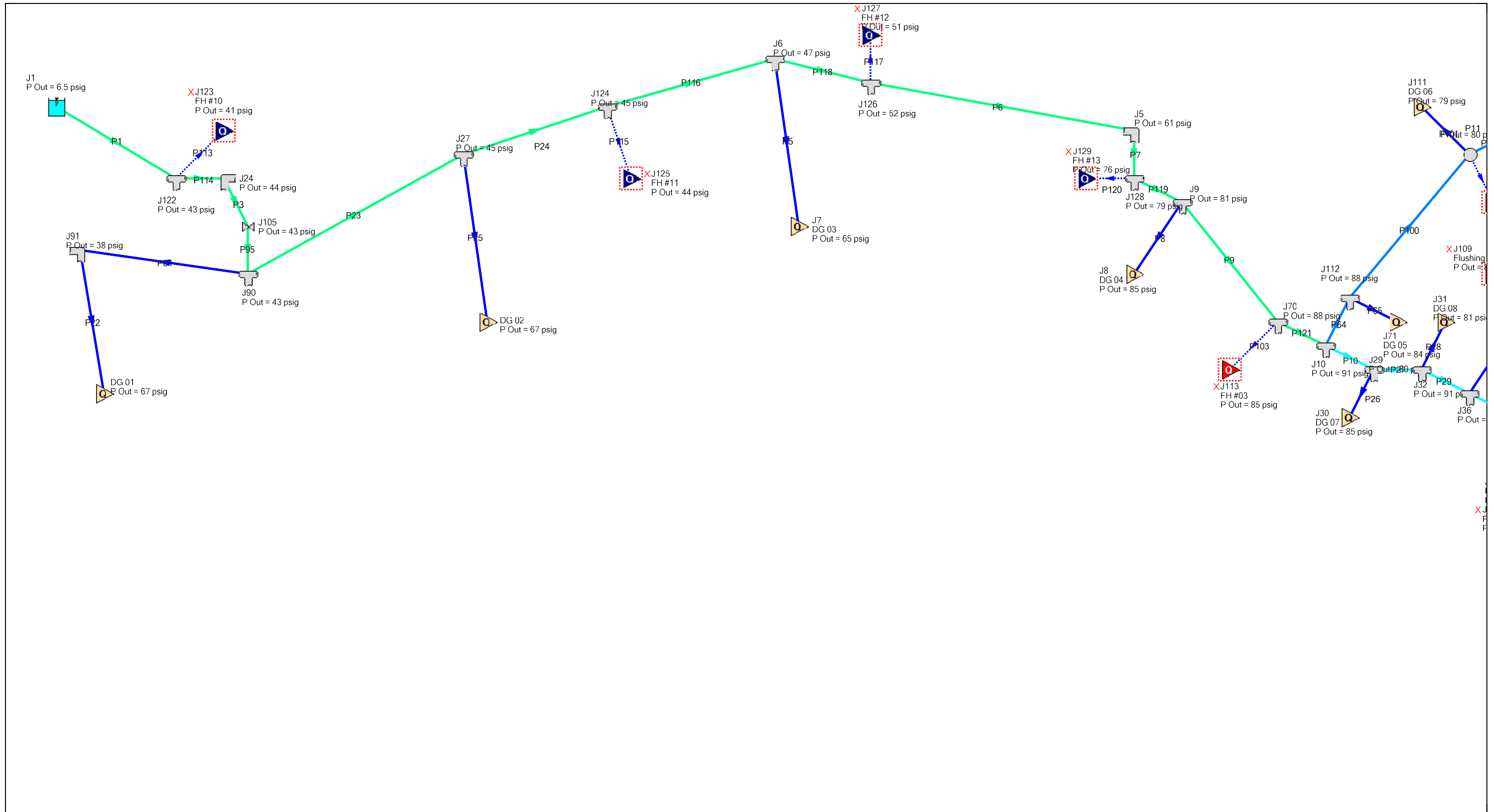


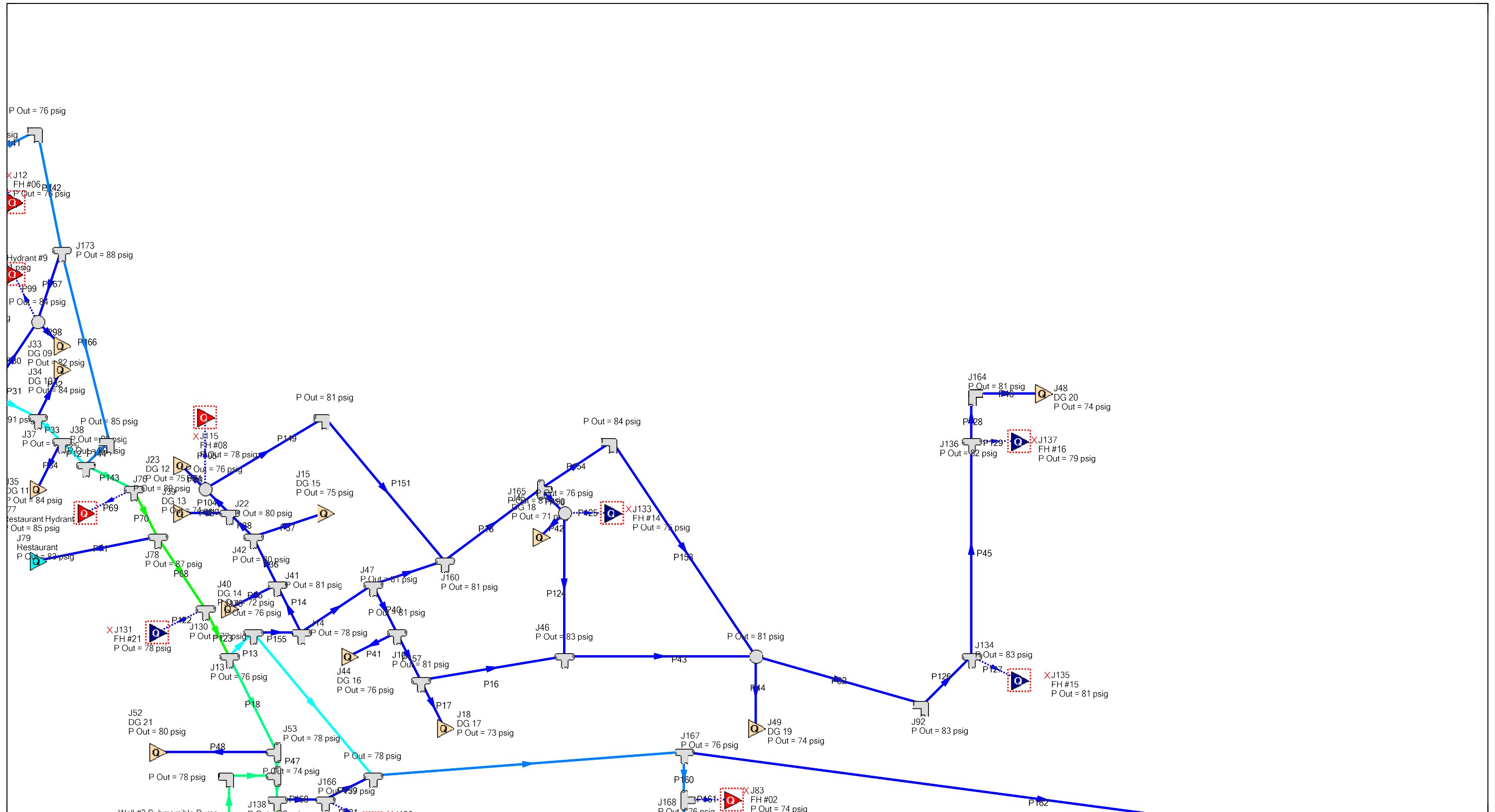


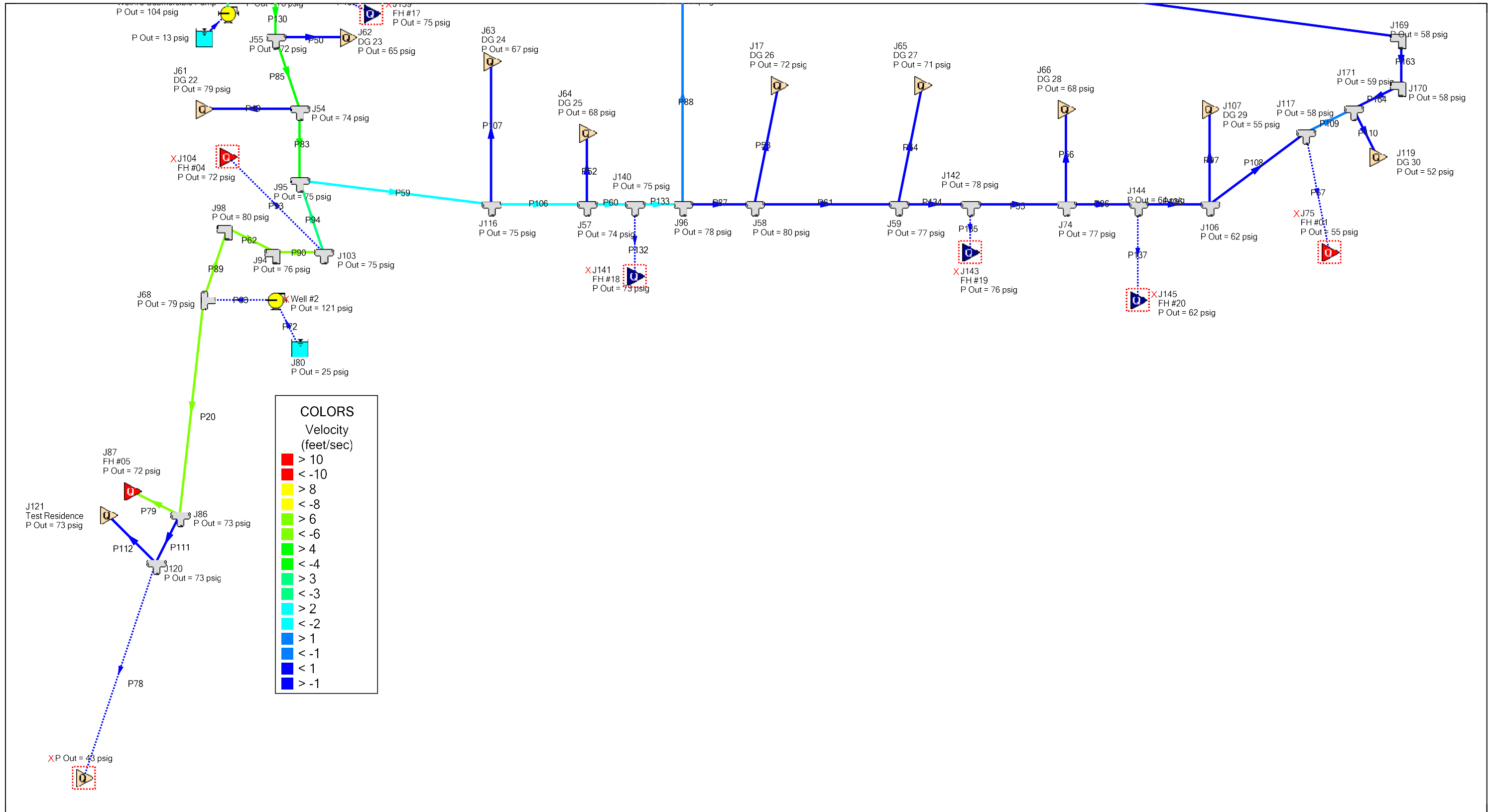
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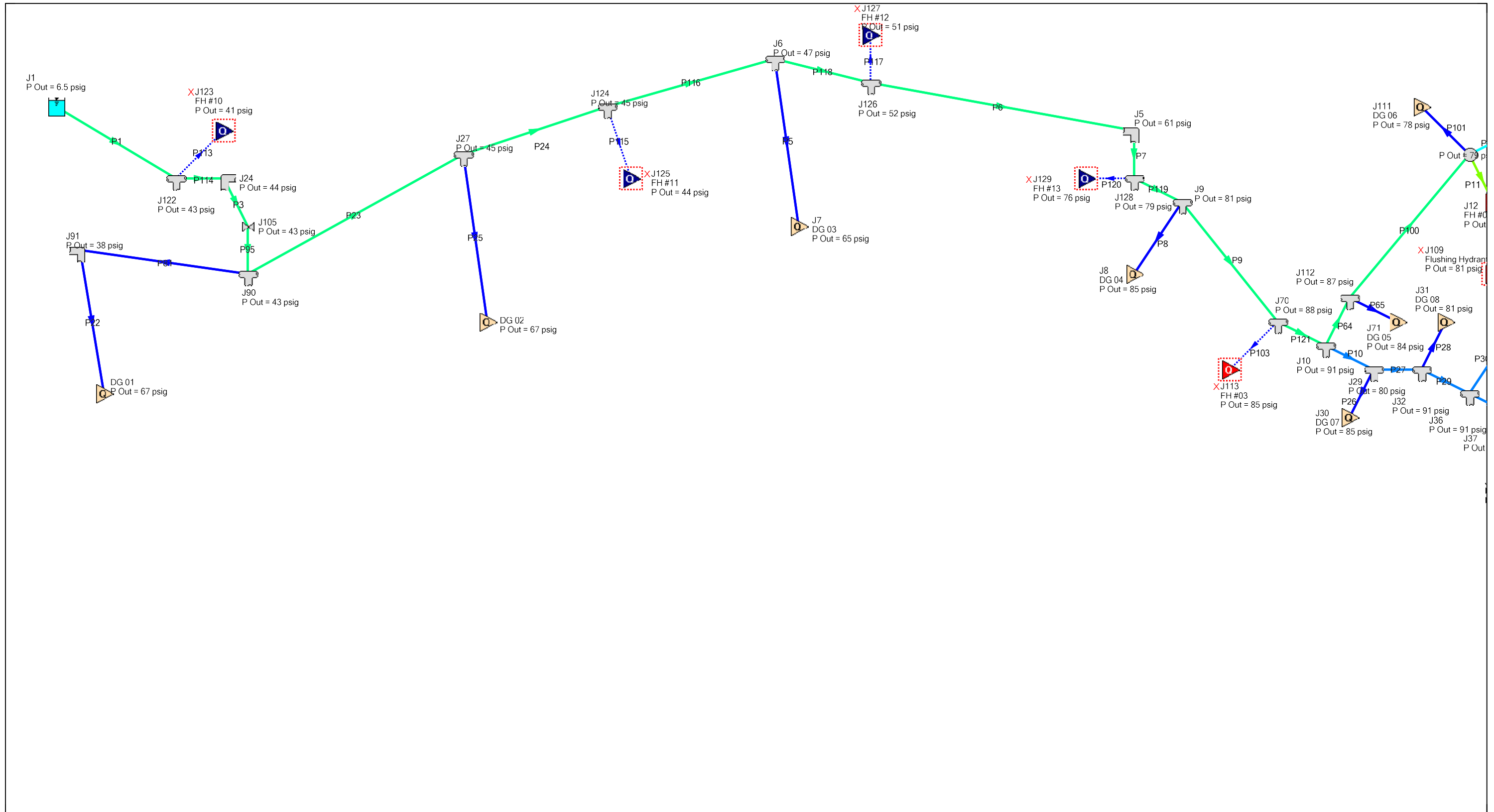
Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #4

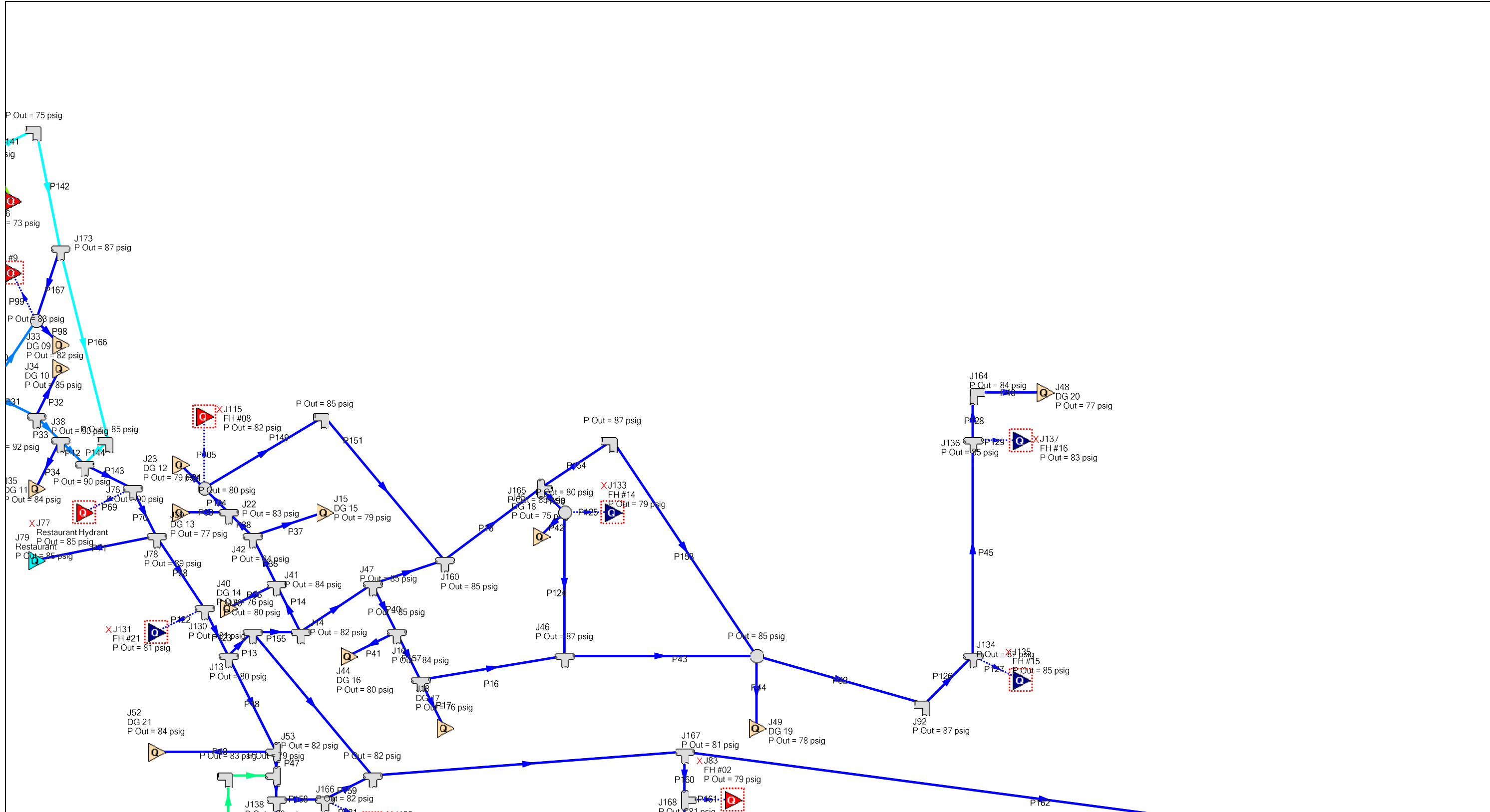


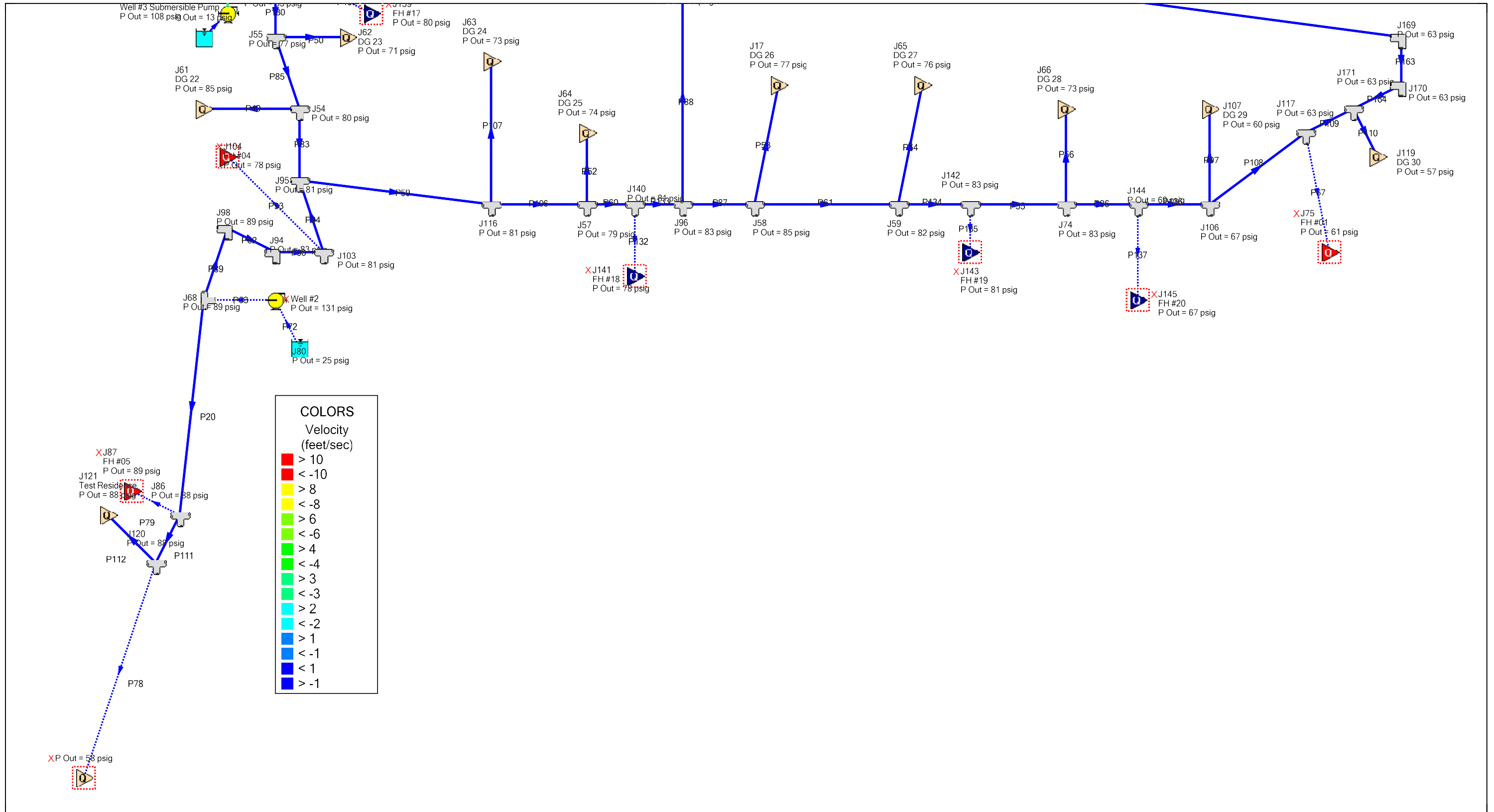


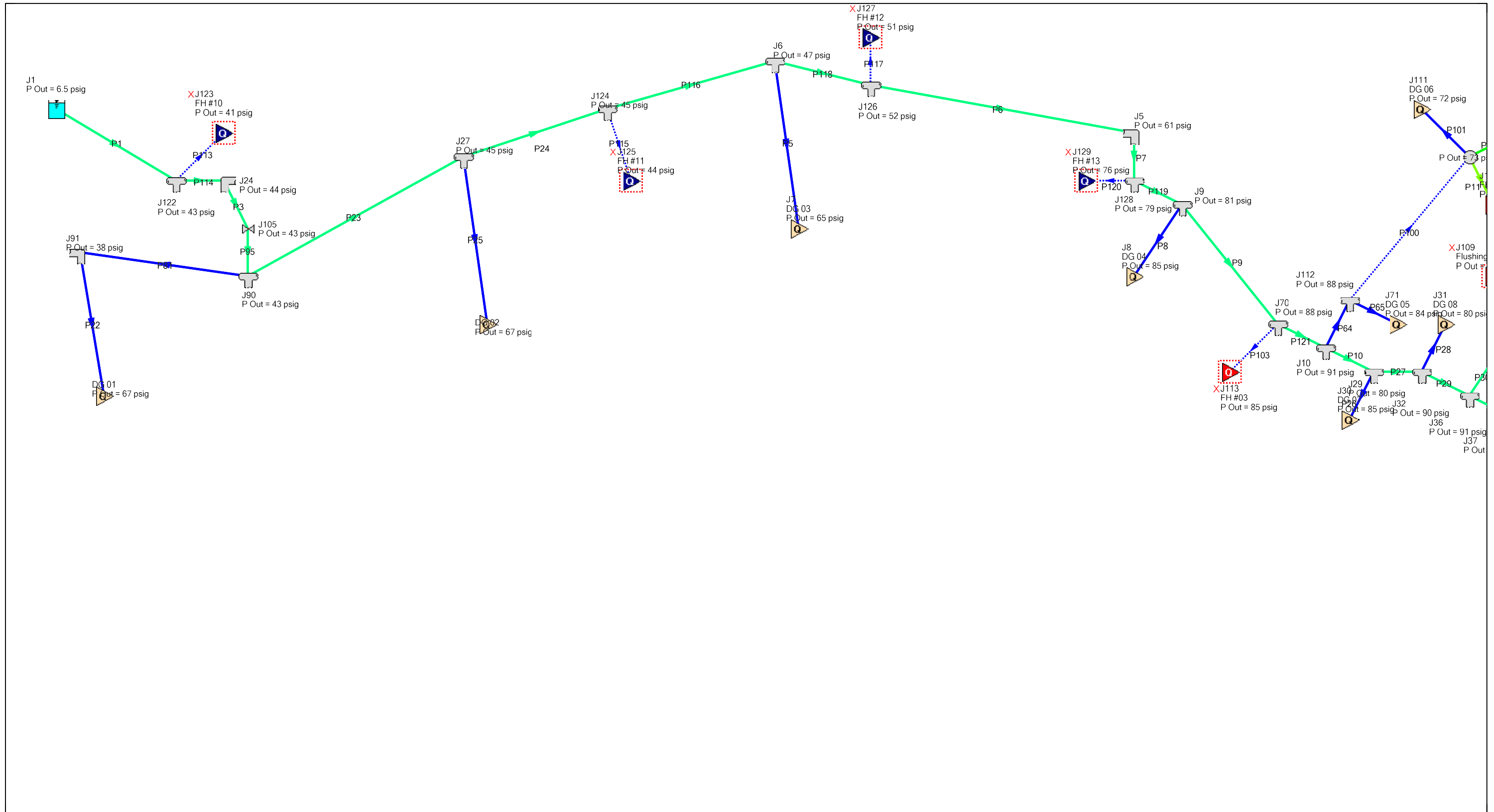


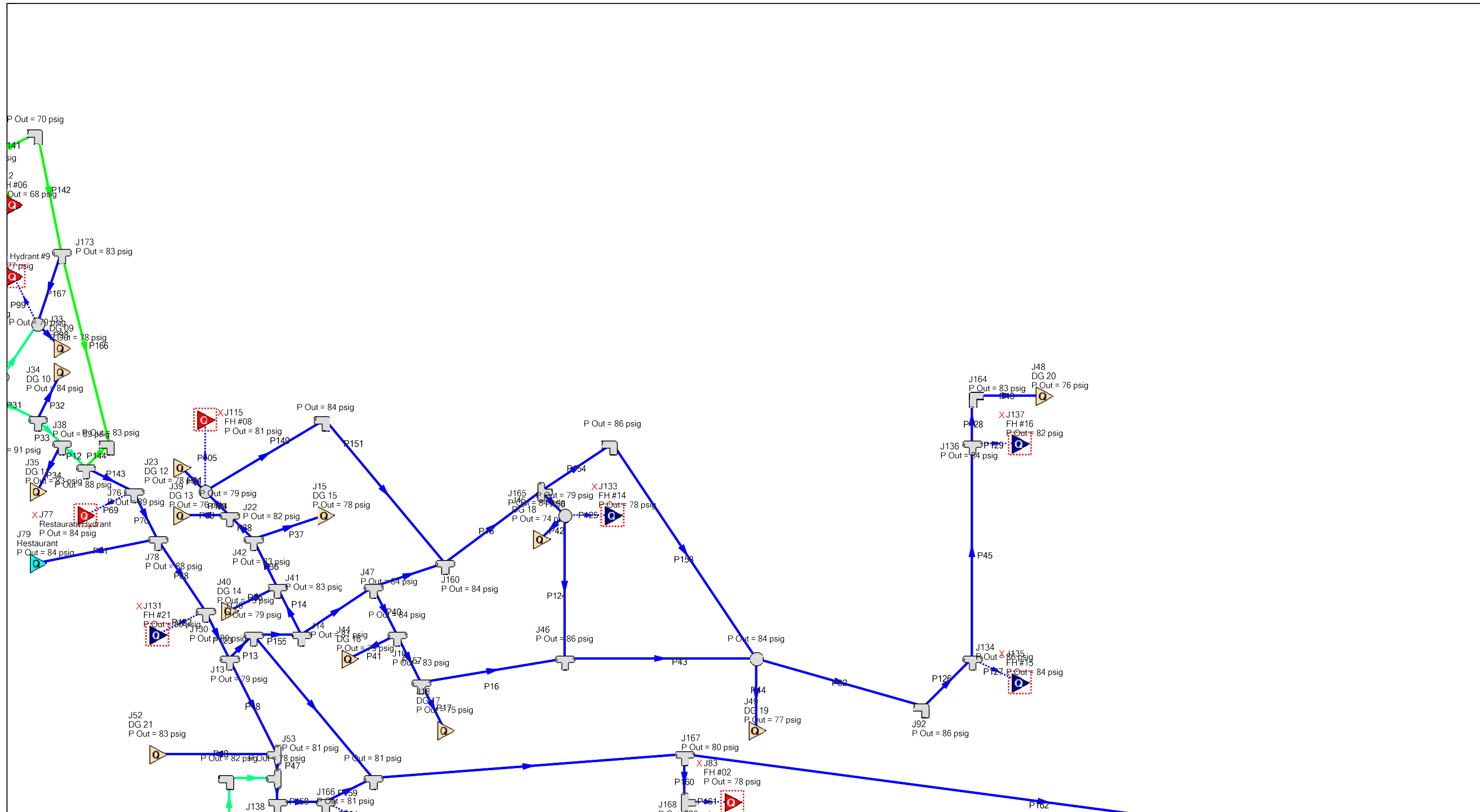






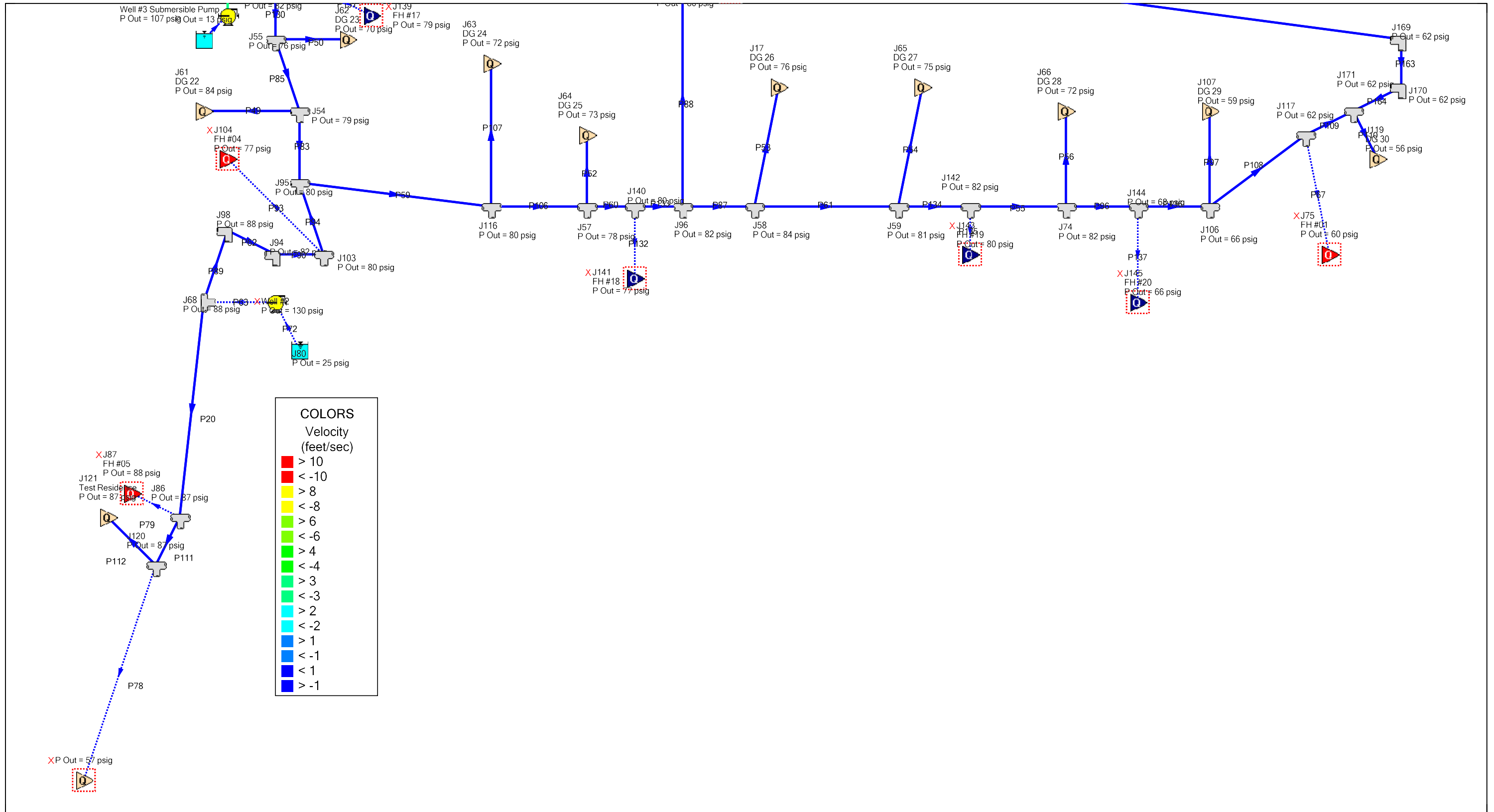


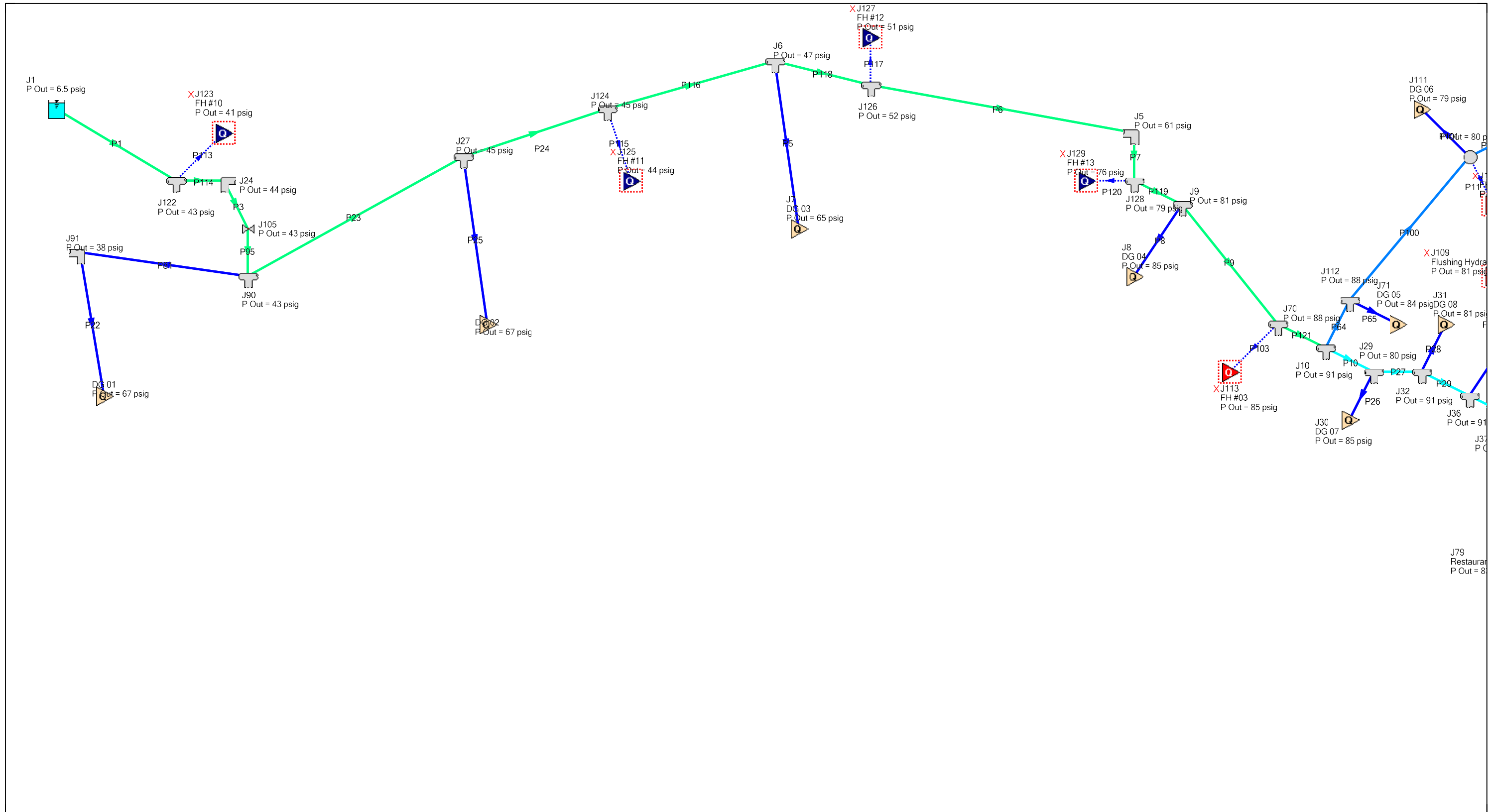


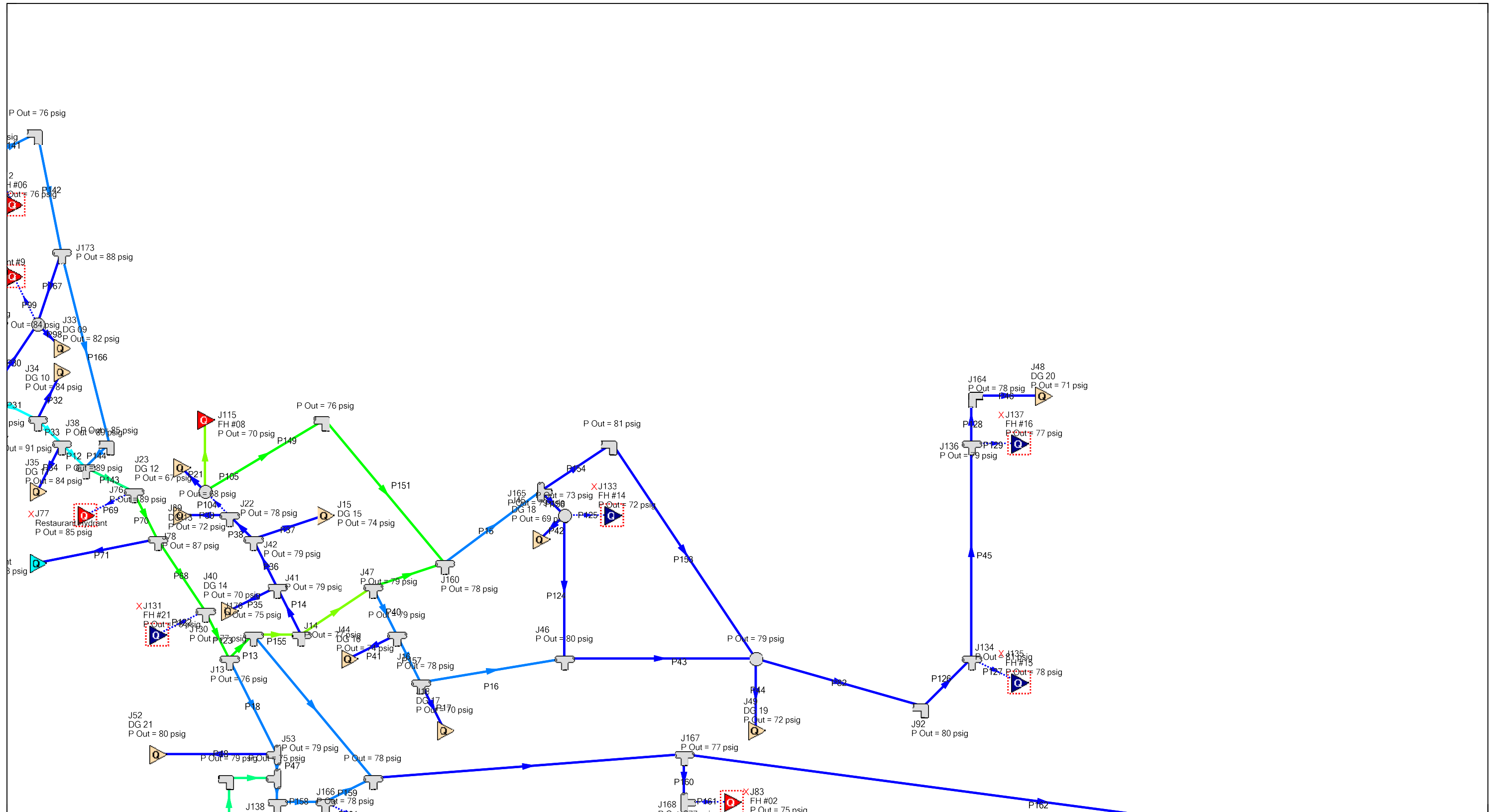


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Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #6  
 Pipe 100 Closed

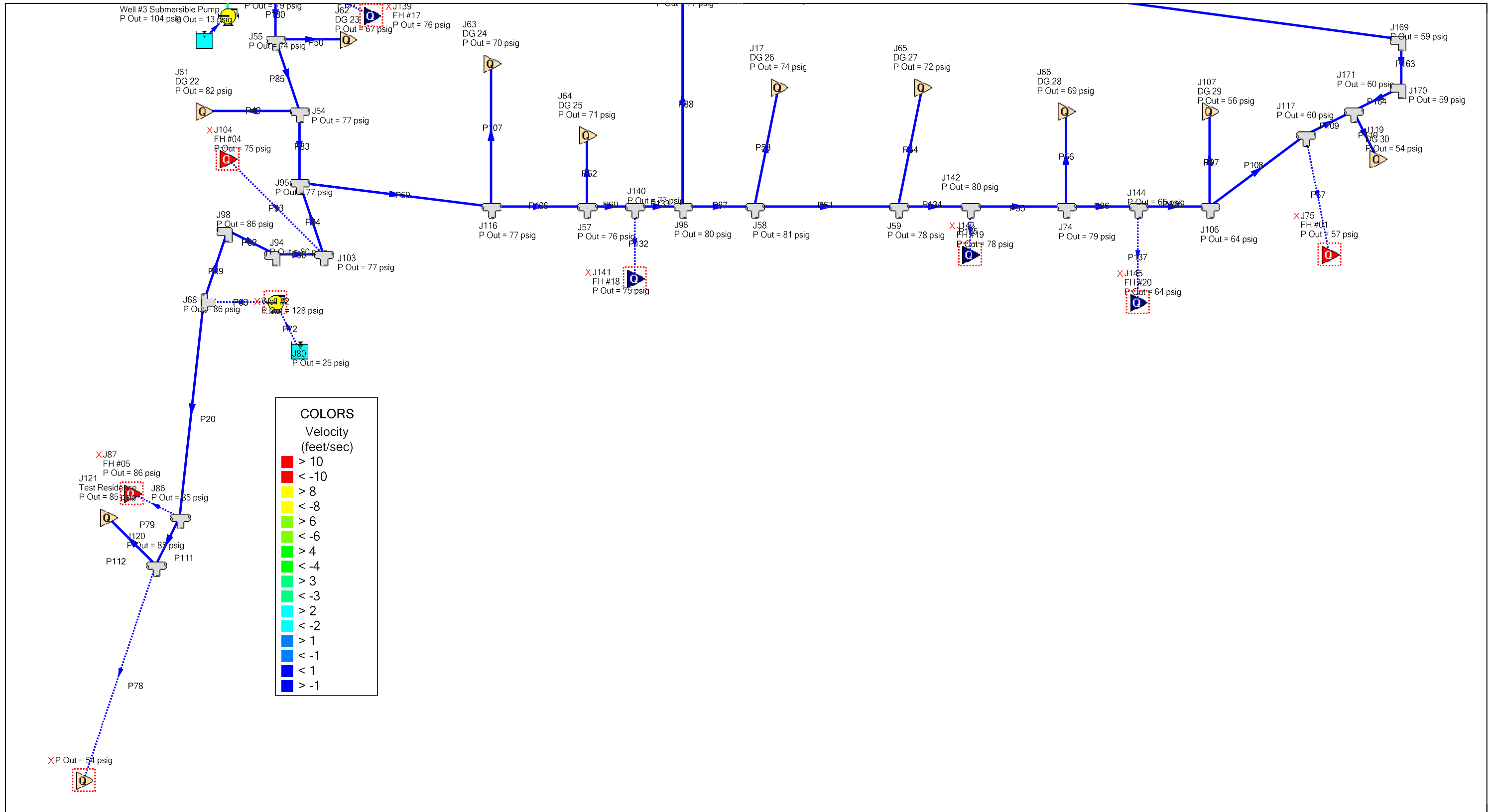


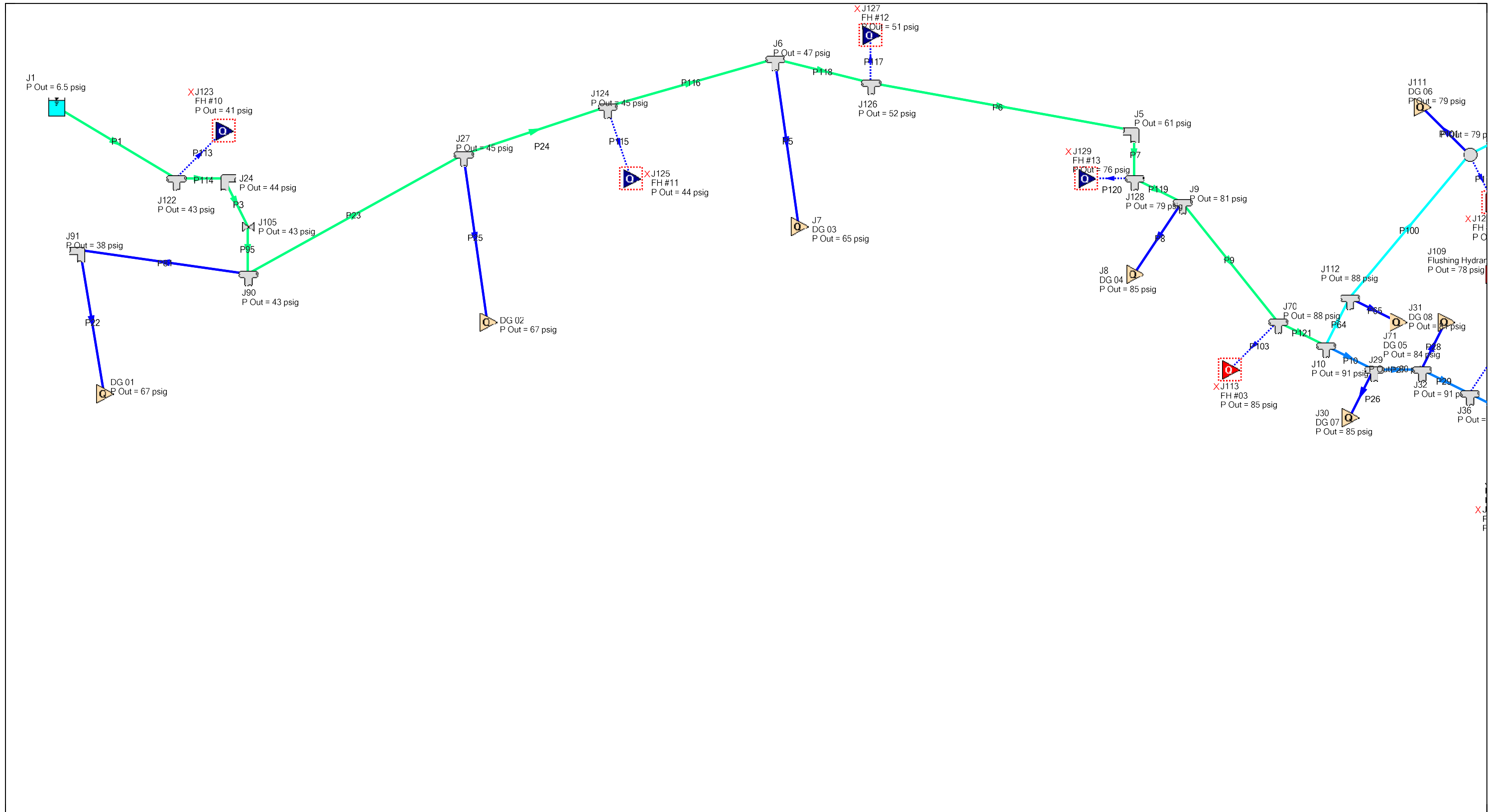


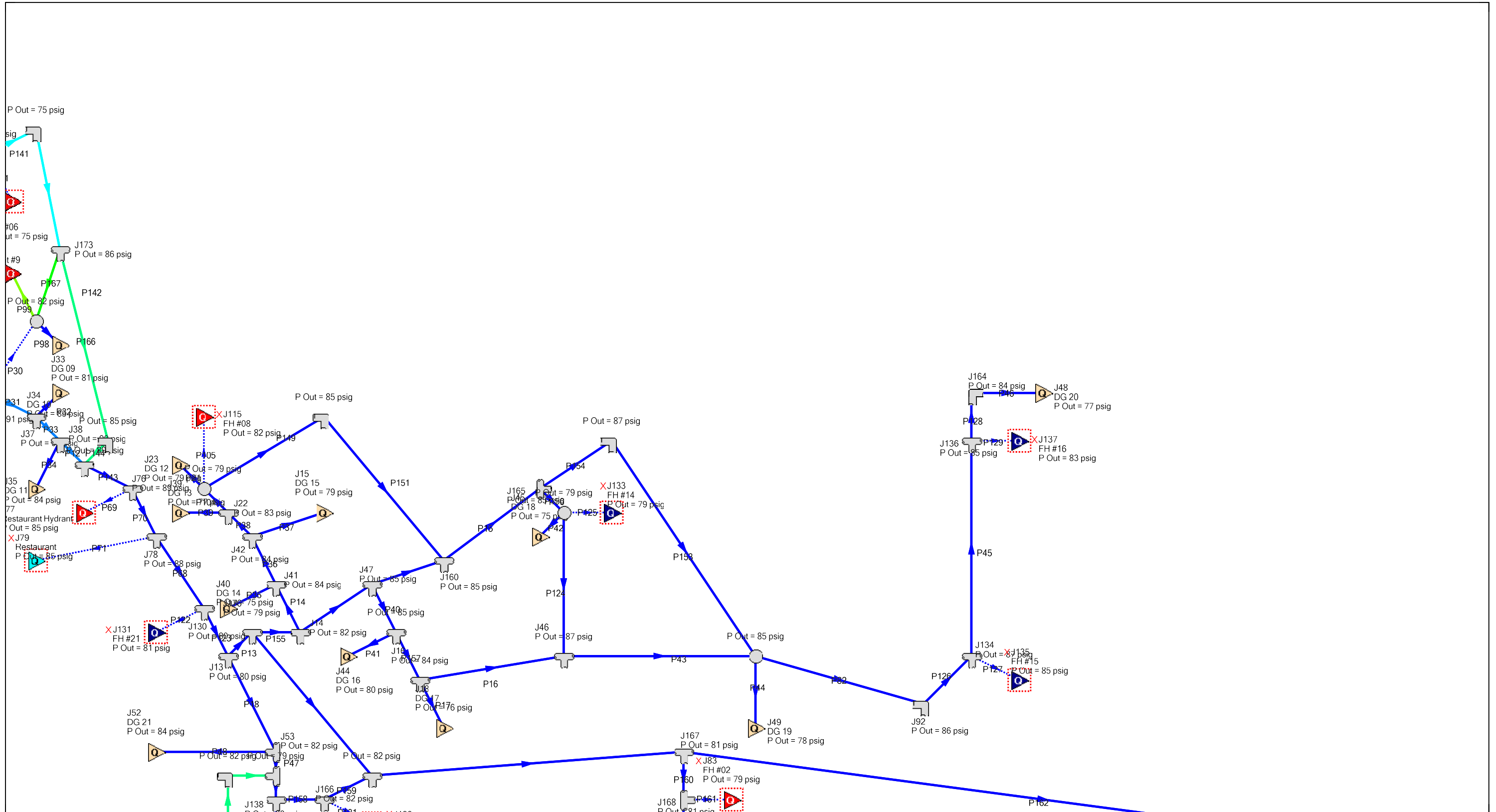


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Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #8  
 Pipe 104 Closed

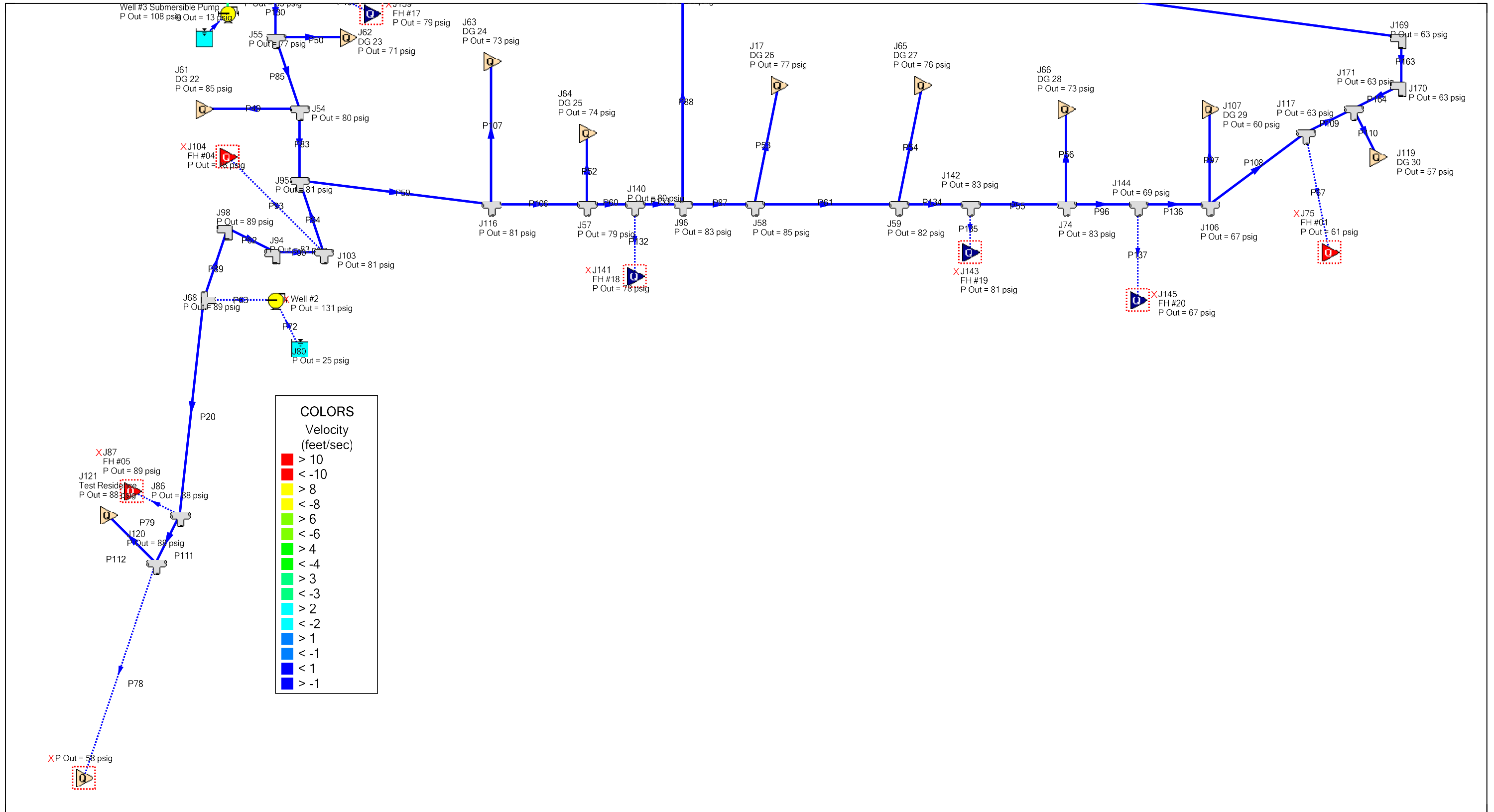


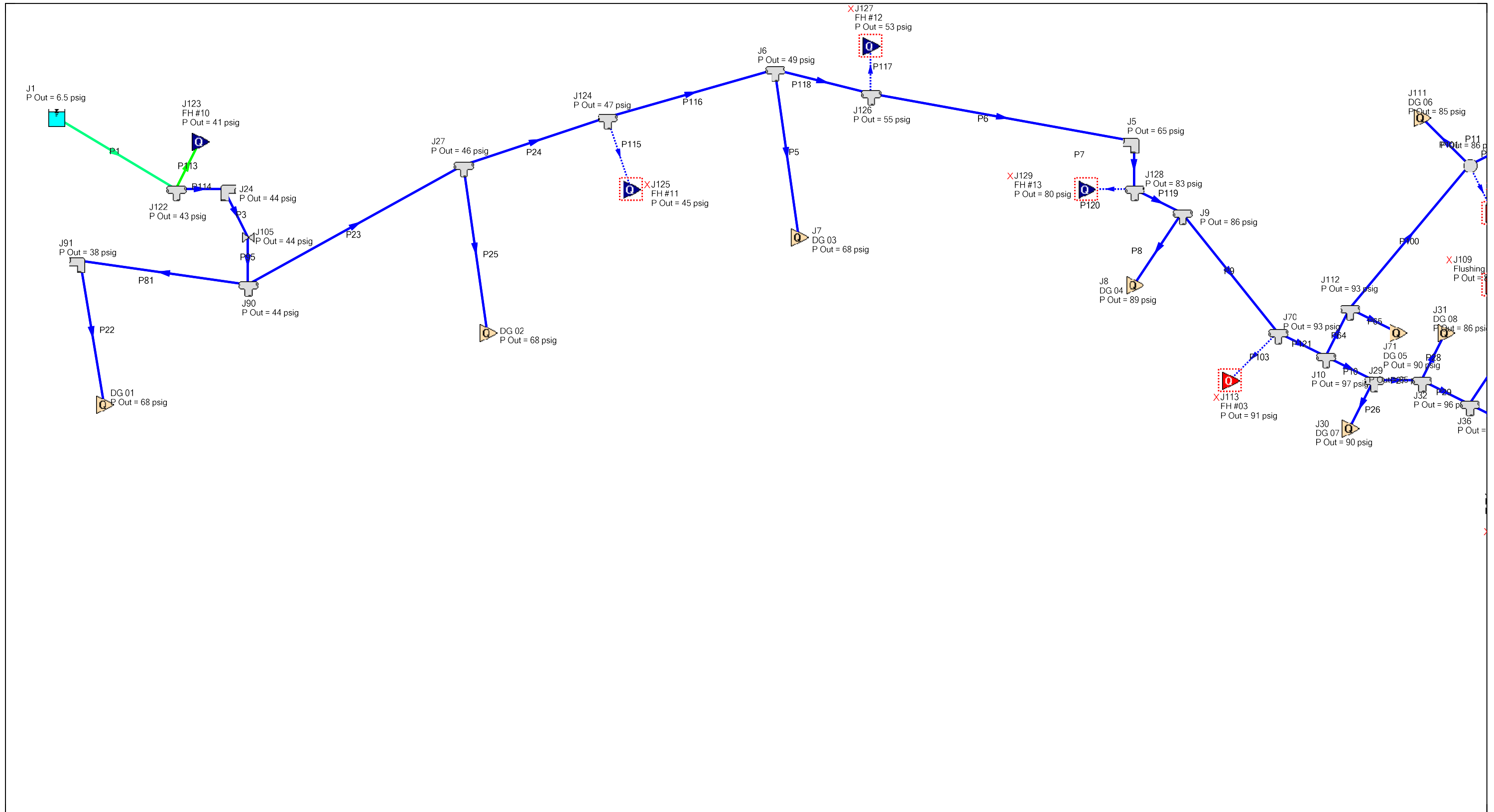




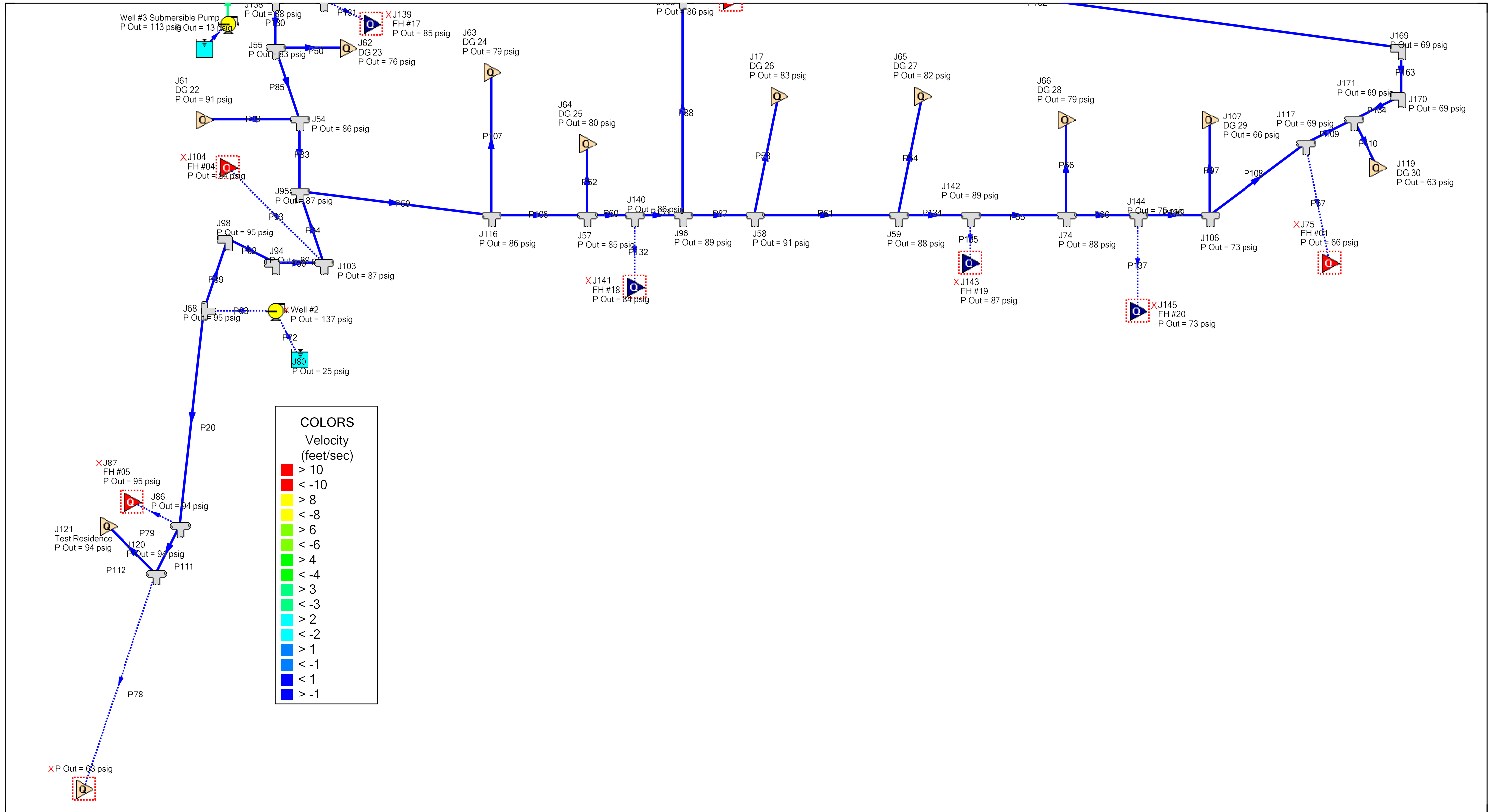
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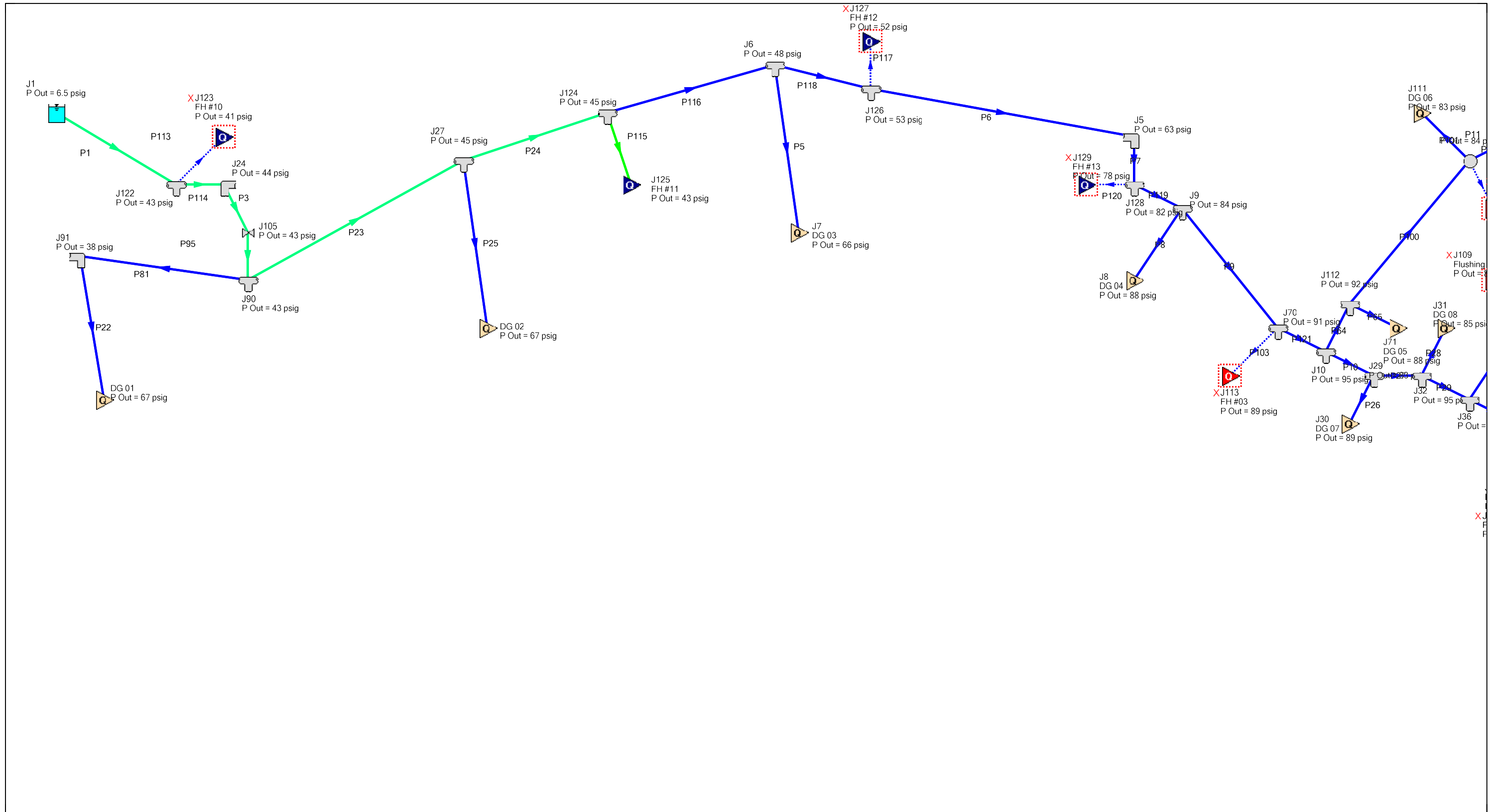
Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #9  
 Pipe 30 Closed

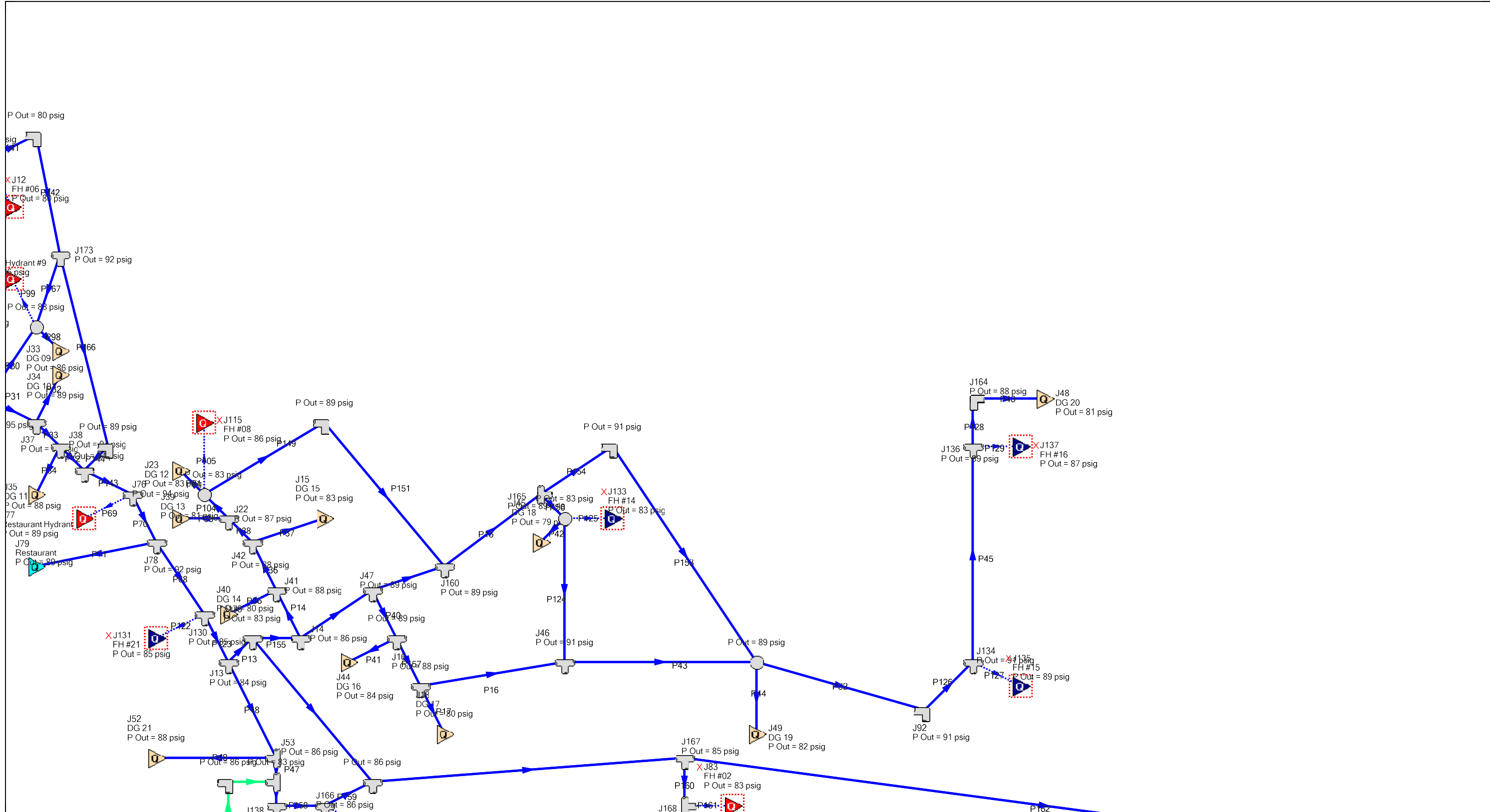


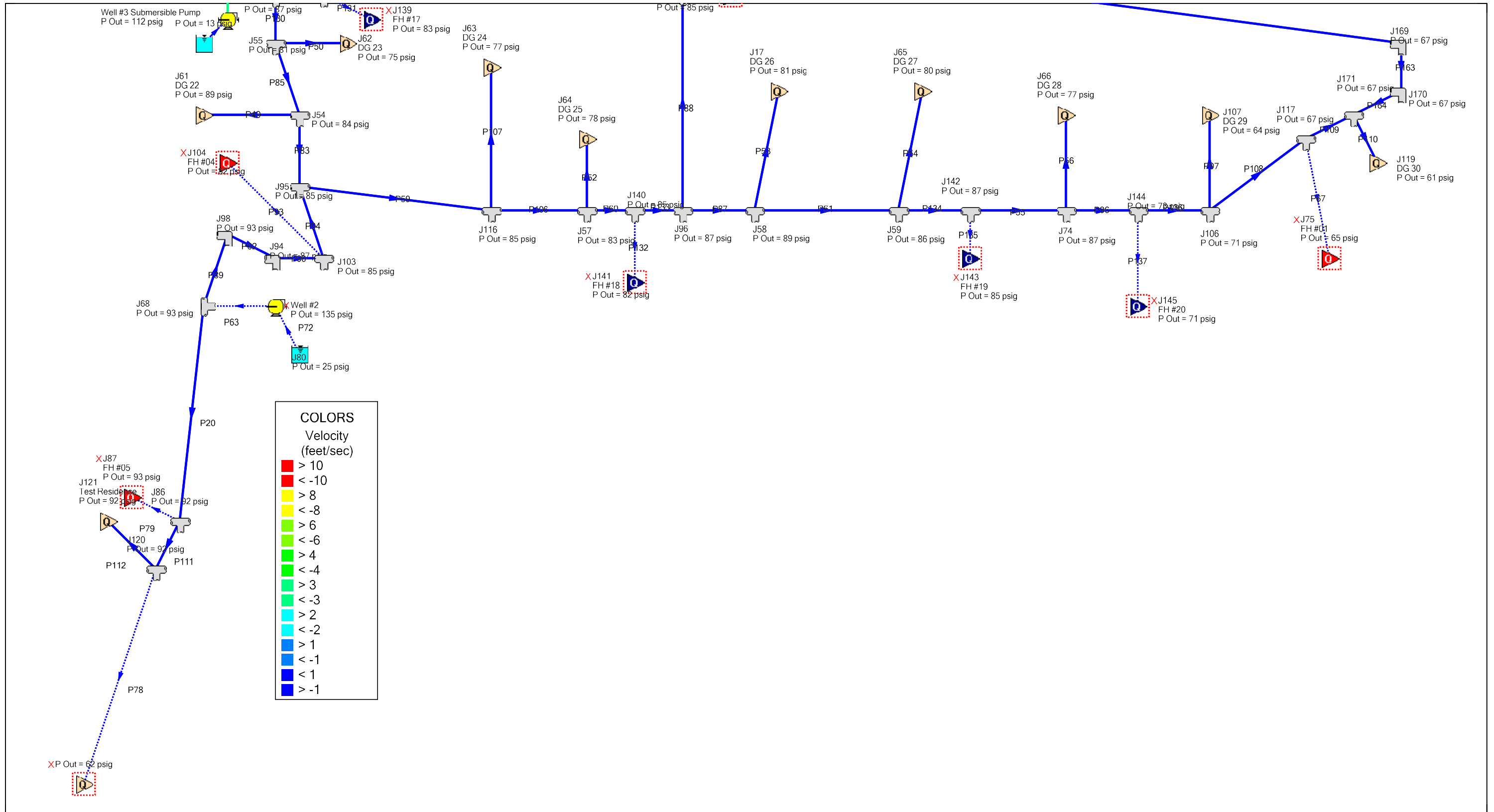


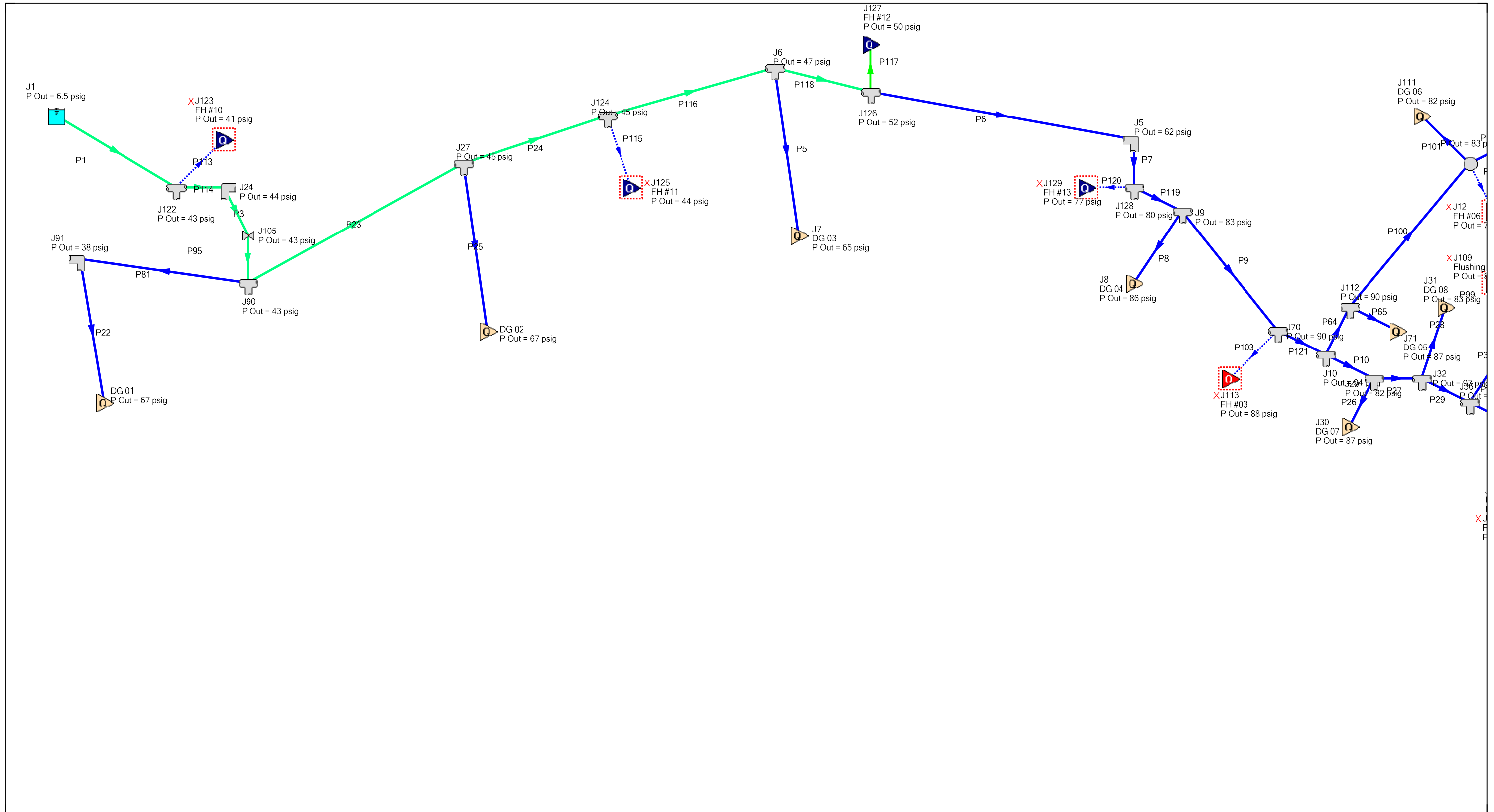


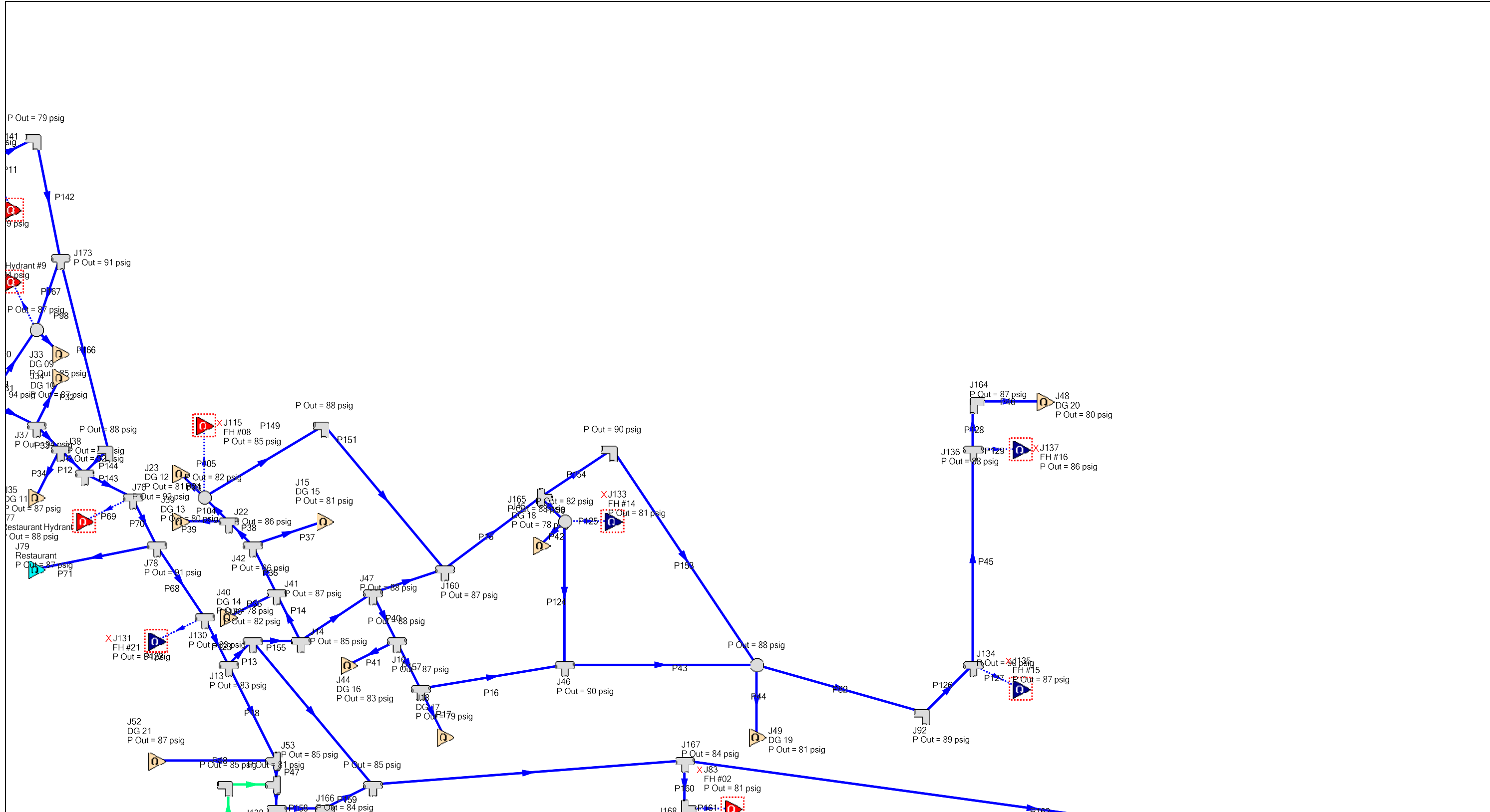


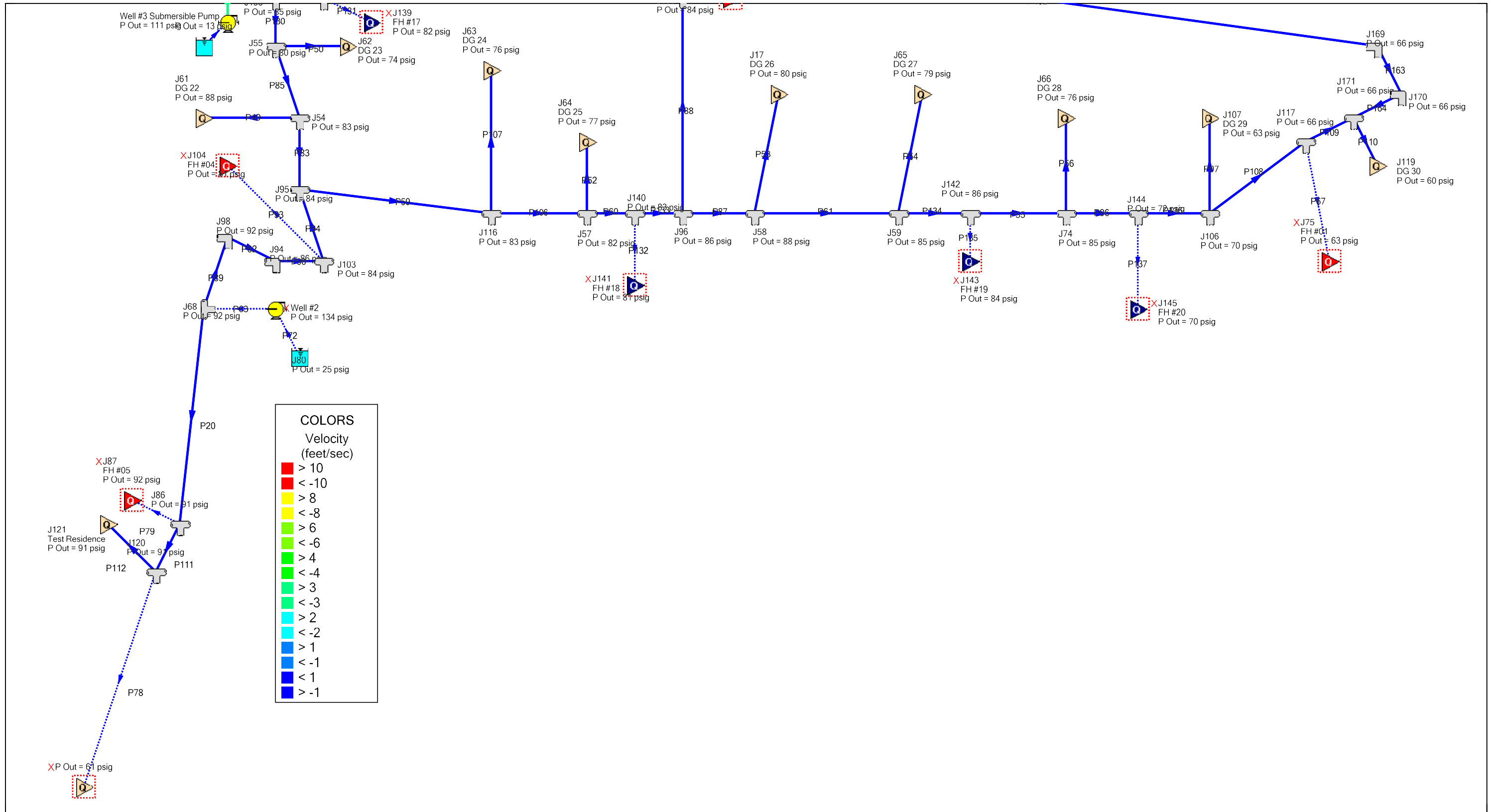


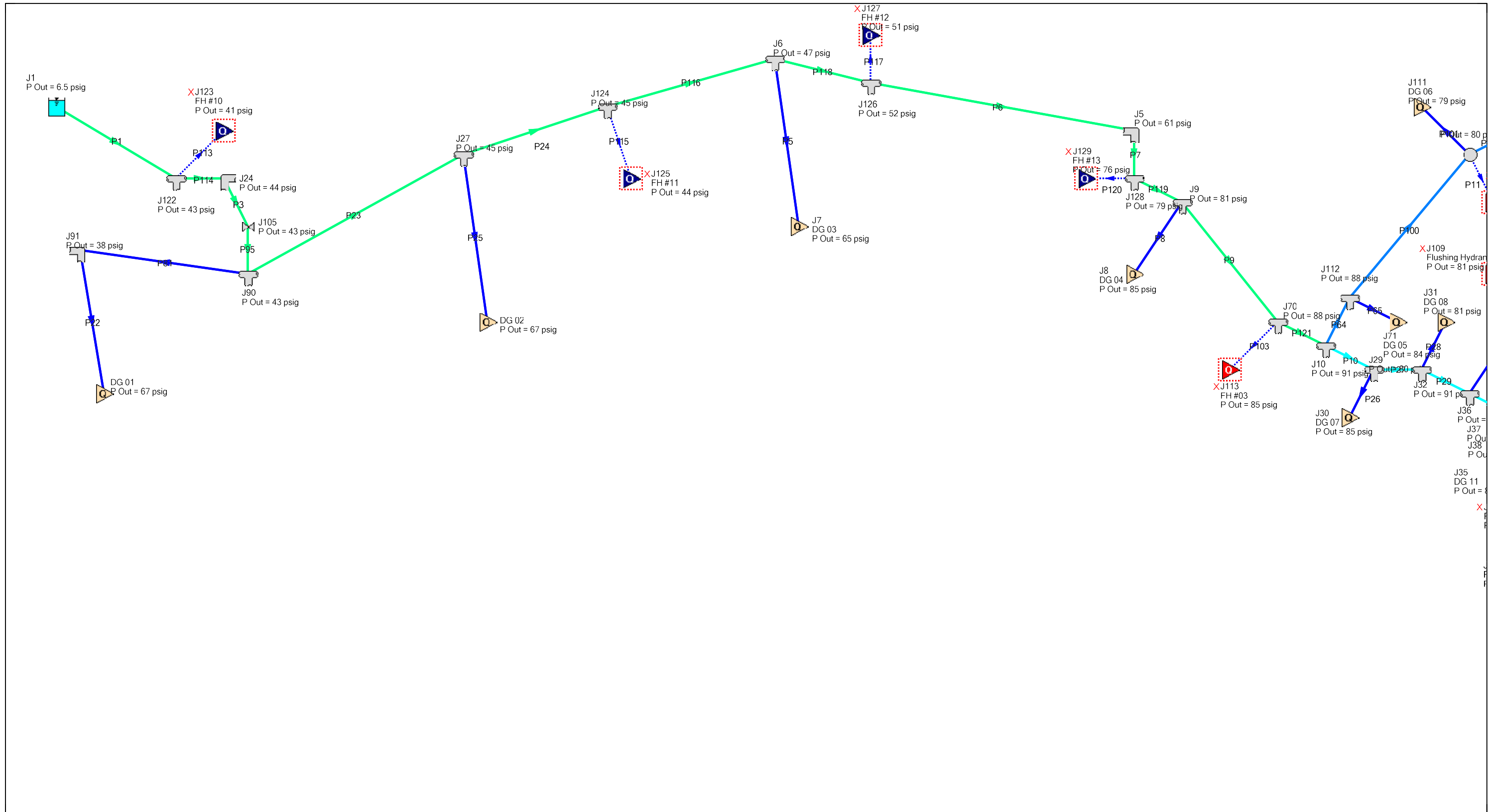




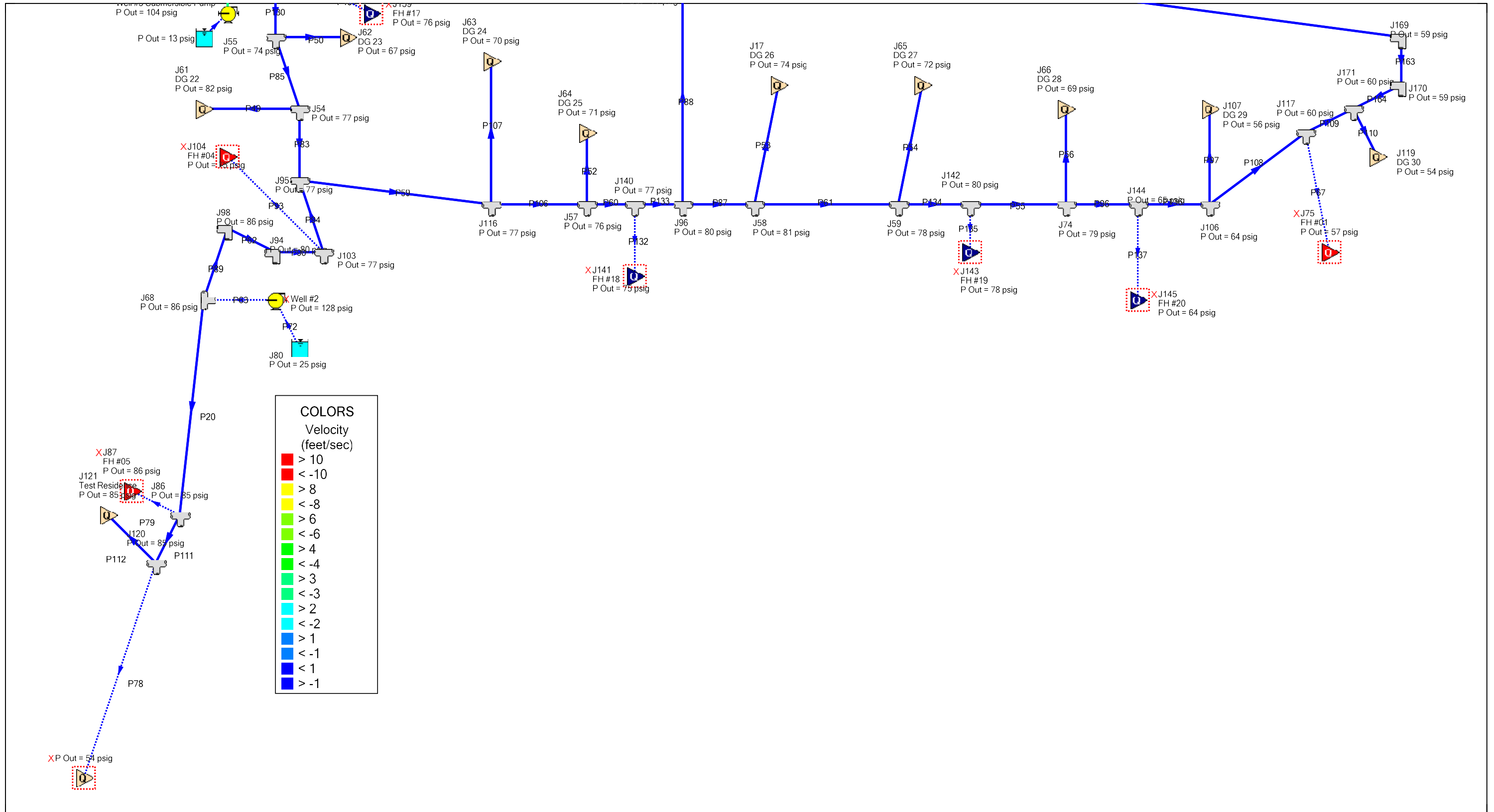


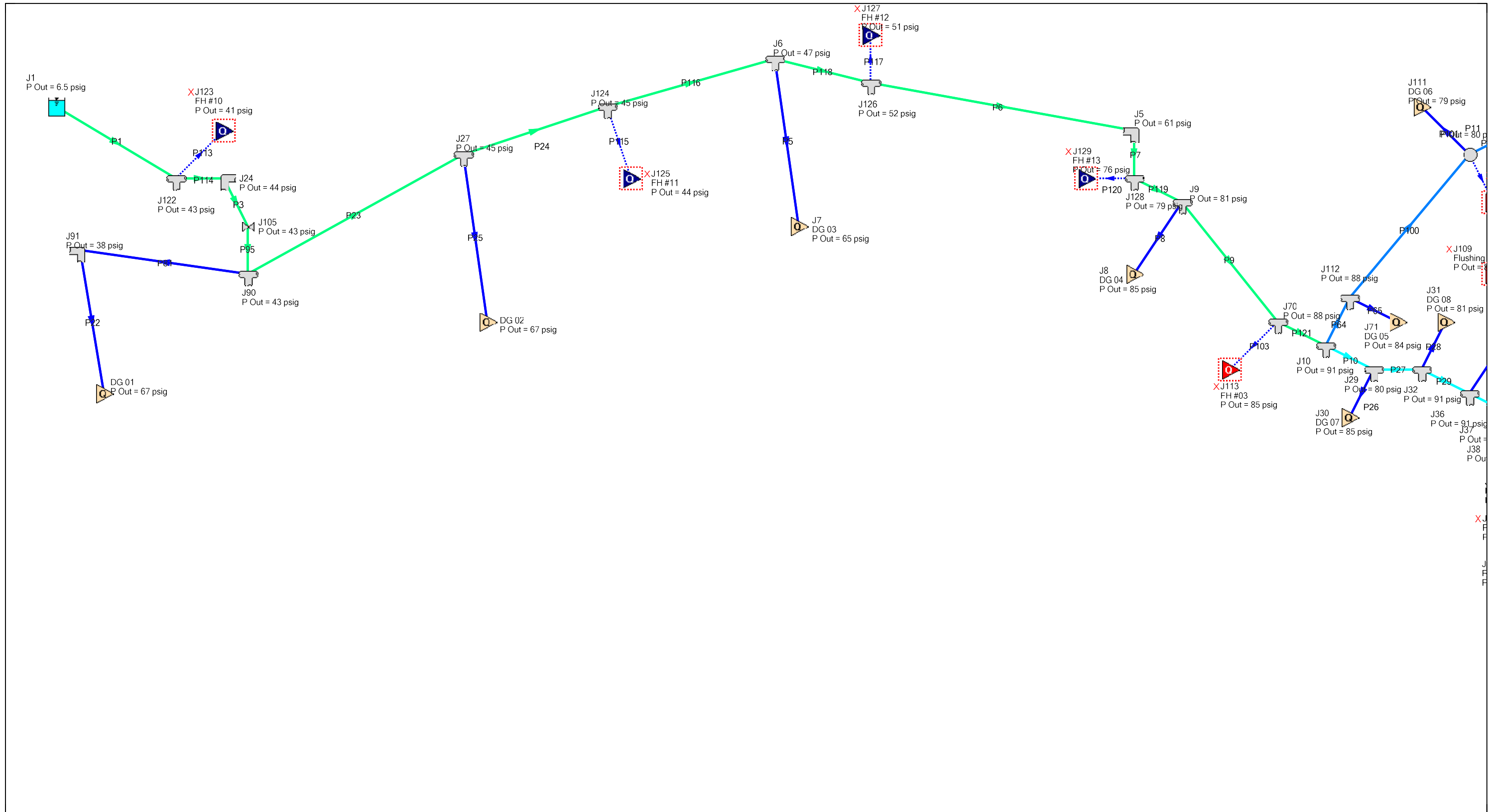


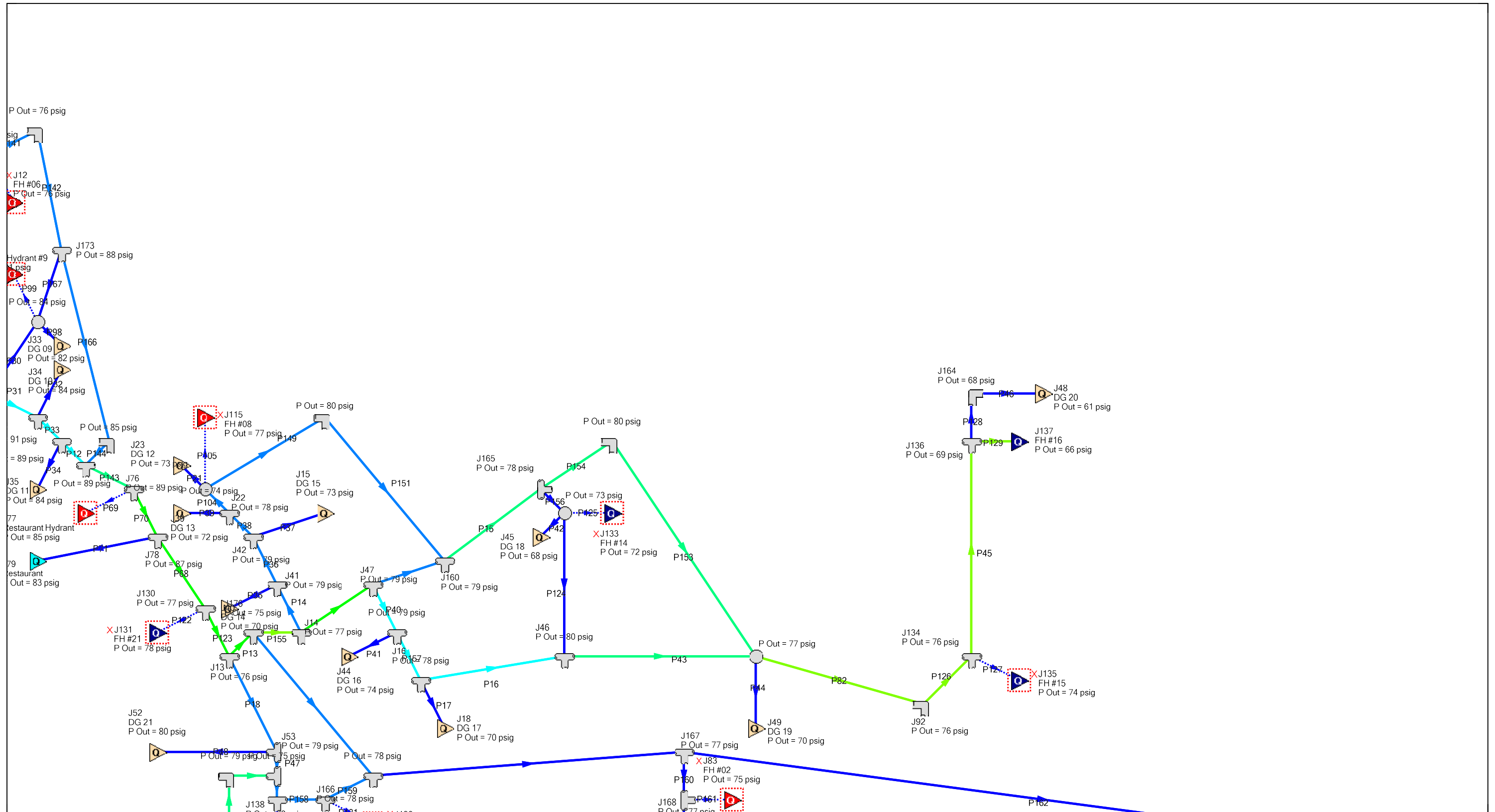


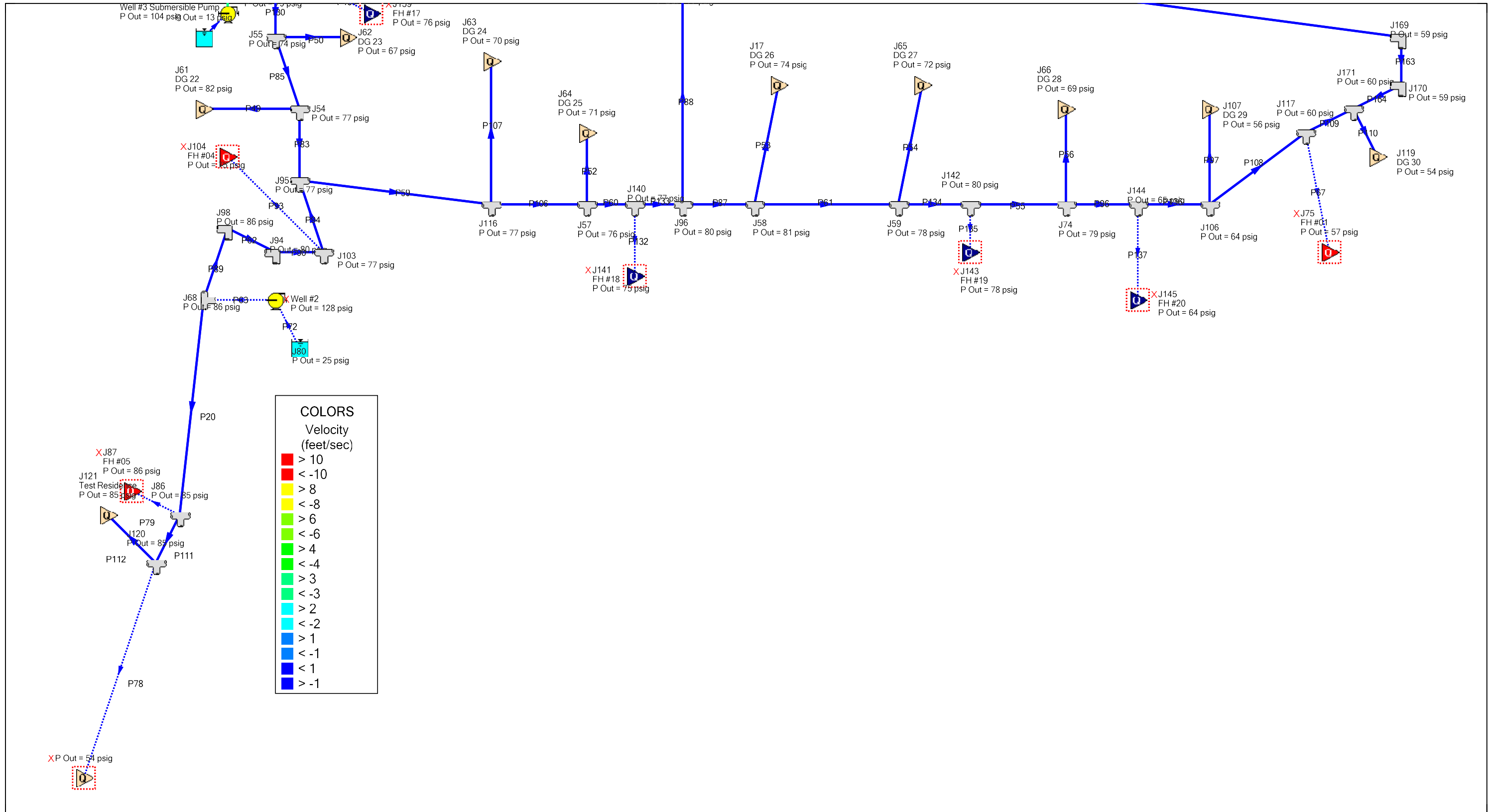


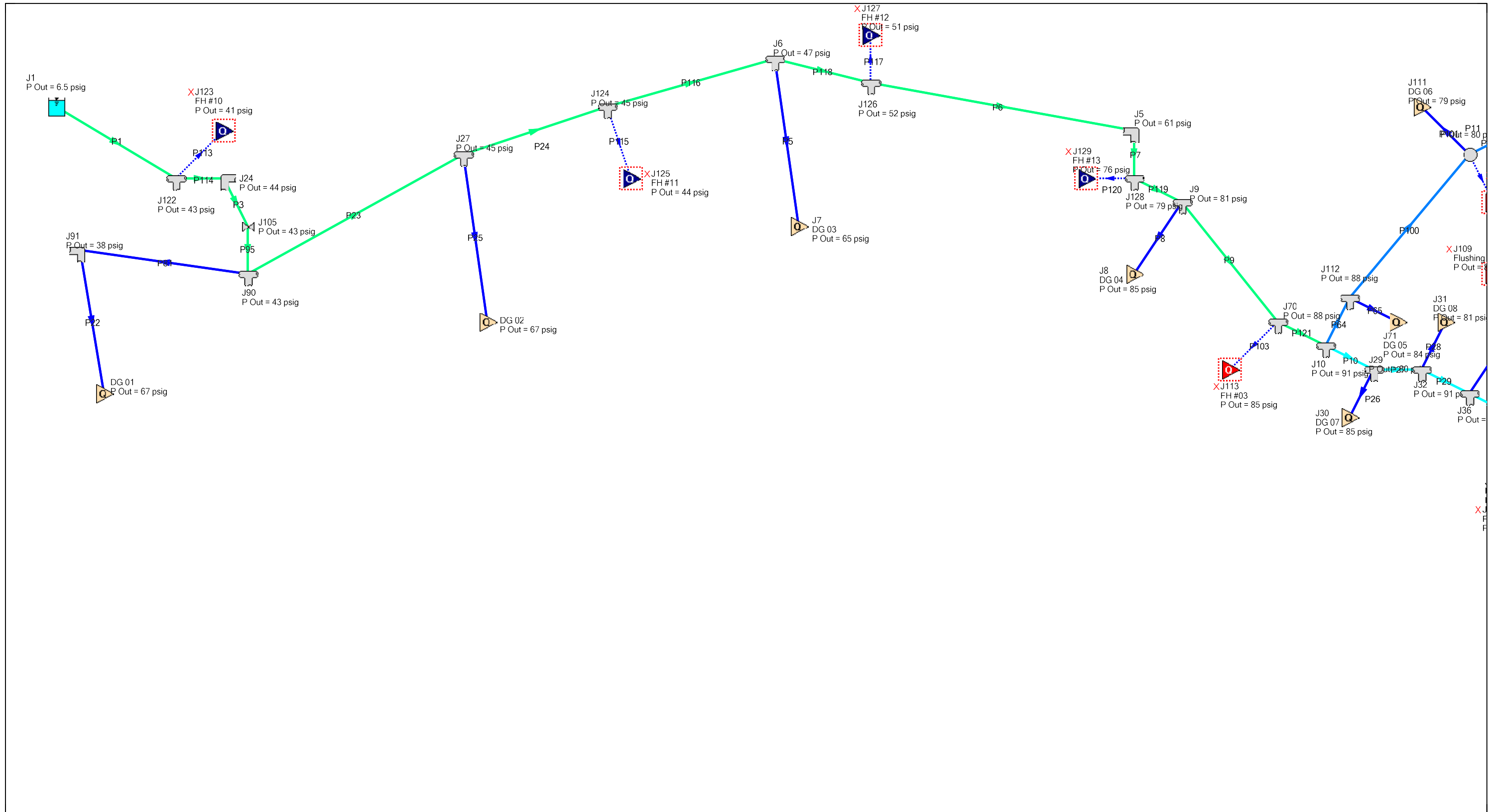


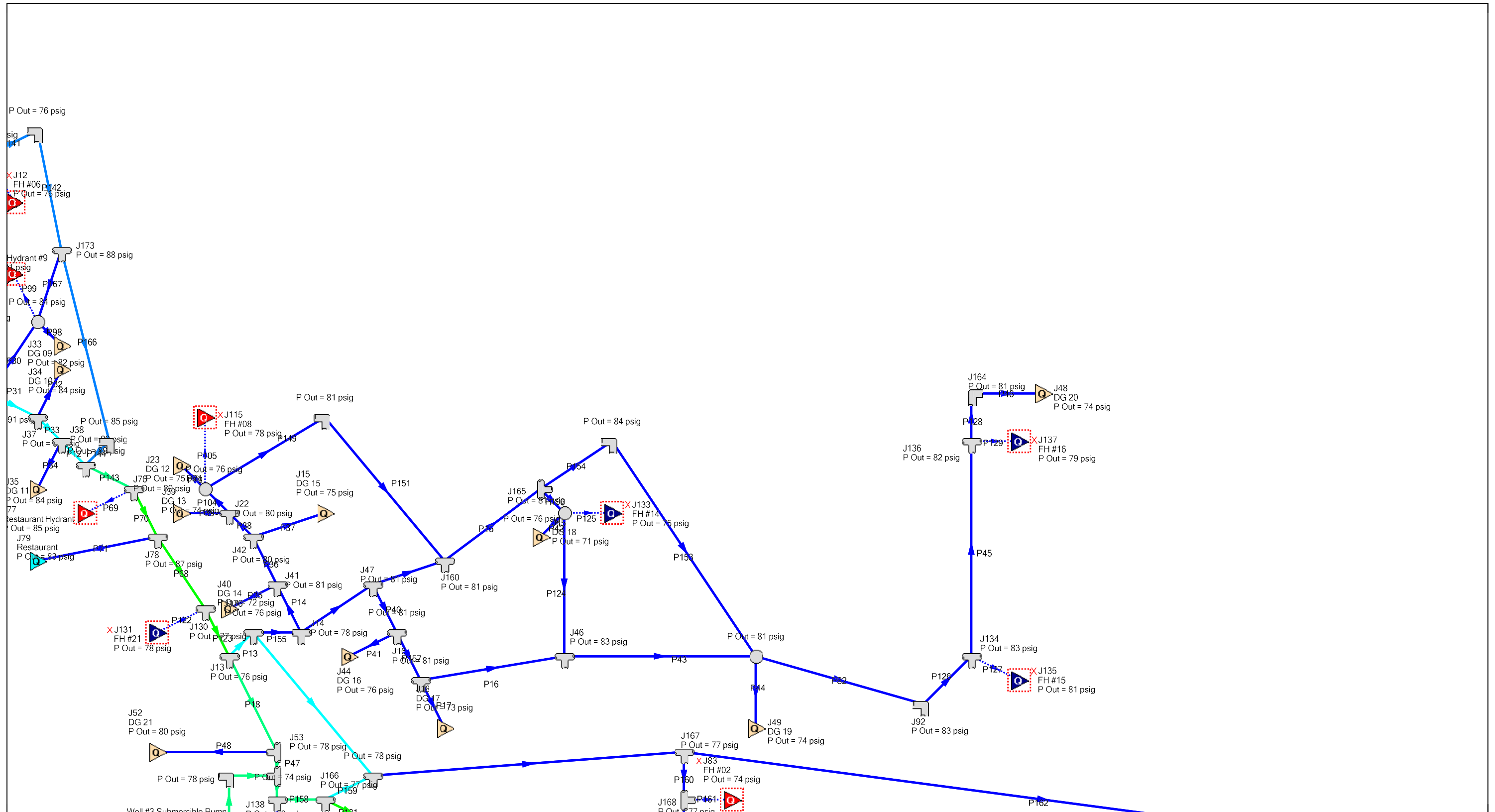












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Upgrades to Existing Alignments  
 With New Pipe Loops  
 500 gpm at FH #17

