



... Fire Protection by Computer Design

SPRINKLER SYSTEMS INC.
4 AVON STREET
P O BOX 1285
LEWISTON, ME. 04243
207-782-0104

Job Name : Hyatt Place Area 7
Building : NEW
Location : FORE STREET PORTLAND, MAINE
System : 1 WET
Contract : 12101
Data File : Hyatt Area 7.WXF

Hydraulic Design Information Sheet

Name - HYATT PLACE PORTLAND AREA 7 Date - 07/12/13
 Location - FORE STREET PORTLAND, MAINE
 Building - NEW System No. - 1 WET
 Contractor - SPRINKLER SYSTEMS INC. Contract No. - 12101
 Calculated By - CDS Drawing No. - 1-4 OF 4
 Construction: () Combustible (x) Non-Combustible Ceiling Height - VARIES
 Occupancy - HOTEL / KITCHEN

S (X) NFPA 13 () Lt. Haz. Ord.Haz.Gp. (X) 1 () 2 () 3 () Ex.Haz.
 Y () NFPA 231 () NFPA 231C () Figure Curve

S Other

T Specific Ruling Made By Date

E				
M	Area of Sprinkler Operation	- 1013	System Type	Sprinkler/Nozzle
	Density	- .15	(X) Wet	Make RELIABLE
D	Area Per Sprinkler	- 130	() Dry	Model F1FR
E	Elevation at Highest Outlet	- 38.500	() Deluge	Size 1/2" X 1/2"
S	Hose Allowance - Inside	- 0	() Preaction	K-Factor 5.6
I	Rack Sprinkler Allowance	- 0	() Other	Temp.Rat.200 DEG.
G	Hose Allowance - Outside	- 250		

N Note

Calculation Flow Required - 276.75 Press Required - 59.843 AT BASE
 Summary C-Factor Used: 120 Overhead 140 Underground

W	Water Flow Test:	Pump Data:	Tank or Reservoir:
A	Date of Test - 05/11/2013		Cap. -
T	Time of Test - AM	Rated Cap.-	Elev.-
E	Static Press - 101	@ Press -	
R	Residual Press - 99	Elev. -	Well
	Flow - 1342		Proof Flow
S	Elevation - 24.0'		

U Location - ON SITE

P Source of Information - OWNER AND WATER DISTRICT

C	Commodity	Class	Location
O	Storage Ht.	Area	Aisle W.
M	Storage Method:	%	Palletized % Rack
M	() Single Row	() Conven. Pallet	() Auto. Storage () Encap.
S	() Double Row	() Slave Pallet	() Solid Shelf () Non
T	() Mult. Row		() Open Shelf

R K Flue Spacing Clearance:Storage to Ceiling
 A Longitudinal Transverse

E Horizontal Barriers Provided:

Fittings Used Summary

SPRINKLER SYSTEMS INC.
Hyatt Place Area 7

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Fitting Legend		½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
Abbrev.	Name																				
B	NFPA 13 Butterfly Valve	0	0	0	0	0	6	7	10	0	12	9	10	12	19	21	0	0	0	0	0
E	NFPA 13 90° Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
Fsp	Flow Switch Potter VSR	Fitting generates a Fixed Loss Based on Flow																			
G	NFPA 13 Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
S	NFPA 13 Swing Check	0	0	5	7	9	11	14	16	19	22	27	32	45	55	65					
T	NFPA 13 90° Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121
Zac	Ames 2000SS	Fitting generates a Fixed Loss Based on Flow																			

Units Summary

Diameter Units Inches
 Length Units Feet
 Flow Units US Gallons per Minute
 Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Pressure / Flow Summary - STANDARD

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Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
TYP	0.0	5.6	12.13	na	19.5	0.15	130	7.0
TYP1	0.0	5.6	12.25	na	19.6	0.1	196	7.0
81	38.5	K = K @ DRP2	16.85	na	21.45			
82	38.5	K = K @ DRP1	17.16	na	21.74			
83	38.5	K = K @ DRP1	17.65	na	22.05			
84	38.5	K = K @ DRP1	18.87	na	22.8			
86	38.5	K = K @ DRP2	14.07	na	19.6			
87	38.5	K = K @ DRP1	14.33	na	19.87			
88	38.5	K = K @ DRP1	14.74	na	20.15			
89	38.5	K = K @ DRP1	15.93	na	20.95			
90	38.5	K = K @ DRP1	17.13	na	21.72			
92	38.5	K = K @ DRP2	16.5	na	21.23			
93	38.5	K = K @ DRP2	16.56	na	21.27			
94	38.5	K = K @ DRP2	16.99	na	21.54			
95	38.5	K = K @ DRP2	18.33	na	22.38			
96	38.5		24.38	na				
91	38.5		24.59	na				
85	38.5		25.33	na				
R2A	38.5		42.22	na				
R2B	52.0		37.07	na				
R2C	52.0		41.29	na				
A1	38.0		49.64	na				
TOR	34.0		51.91	na				
BKFL	26.0		55.89	na				
BASE	24.0		59.84	na				
HOSE	24.0		60.13	na	250.0			
TEST	24.0		60.15	na				

The maximum velocity is 16.28 and it occurs in the pipe between nodes 85 and R2A

Final Calculations - Hazen-Williams

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Hyatt Place Area 7

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftnng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
TYP to DRP1	19.50 19.5	1.049 120.0 0.1242	1E 2.0 1T 5.0 0.0	6.500 7.000 13.500	12.125 0.0 1.677			K Factor = 5.60 Vel = 7.24	
	0.0 19.50					13.802		K Factor = 5.25	
TYP1 to DRP2	19.60 19.6	1.049 120.0 0.1254	1E 2.0 1T 5.0 0.0	7.500 7.000 14.500	12.250 0.0 1.818			K Factor = 5.60 Vel = 7.28	
	0.0 19.60					14.068		K Factor = 5.23	
81 to 82	21.45 21.45	1.682 120.0 0.0149	2E 9.9 0.0 0.0	11.000 9.900 20.900	16.851 0.0 0.311			K Factor @ node DRP2 Vel = 3.10	
82 to 83	21.75 43.2	1.682 120.0 0.0542	0.0 0.0 0.0	9.000 0.0 9.000	17.162 0.0 0.488			K Factor @ node DRP1 Vel = 6.24	
83 to 84	22.05 65.25	1.682 120.0 0.1164	0.0 0.0 0.0	10.500 0.0 10.500	17.650 0.0 1.222			K Factor @ node DRP1 Vel = 9.42	
84 to 85	22.80 88.05	1.682 120.0 0.2026	1T 9.9 0.0 0.0	22.000 9.900 31.900	18.872 0.0 6.463			K Factor @ node DRP1 Vel = 12.71	
	0.0 88.05					25.335		K Factor = 17.49	
86 to 87	19.60 19.6	1.682 120.0 0.0125	2E 9.9 0.0 0.0	11.000 9.900 20.900	14.068 0.0 0.262			K Factor @ node DRP2 Vel = 2.83	
87 to 88	19.87 39.47	1.682 120.0 0.0460	0.0 0.0 0.0	9.000 0.0 9.000	14.330 0.0 0.414			K Factor @ node DRP1 Vel = 5.70	
88 to 89	20.15 59.62	1.682 120.0 0.0985	0.0 0.0 0.0	12.000 0.0 12.000	14.744 0.0 1.182			K Factor @ node DRP1 Vel = 8.61	
89 to 90	20.95 80.57	1.682 120.0 0.1719	0.0 0.0 0.0	7.000 0.0 7.000	15.926 0.0 1.203			K Factor @ node DRP1 Vel = 11.63	
90 to 91	21.73 102.3	1.682 120.0 0.2674	1T 9.9 0.0 0.0	18.000 9.900 27.900	17.129 0.0 7.460			K Factor @ node DRP1 Vel = 14.77	
	0.0 102.30					24.589		K Factor = 20.63	
92 to 93	21.23 21.23	1.682 120.0 0.0144	0.0 0.0 0.0	4.500 0.0 4.500	16.499 0.0 0.065			K Factor @ node DRP2 Vel = 3.07	
93 to 94	21.26 42.49	1.682 120.0 0.0528	0.0 0.0 0.0	8.000 0.0 8.000	16.564 0.0 0.422			K Factor @ node DRP2 Vel = 6.14	

Final Calculations - Hazen-Williams

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
94 to 95	21.54 64.03	1.682 120.0 0.1123		0.0 0.0 0.0	12.000 0.0 12.000	16.986 0.0 1.348			K Factor @ node DRP2 Vel = 9.25	
95 to 96	22.38 86.41	1.682 120.0 0.1957	1T	9.9 0.0 0.0	21.000 9.900 30.900	18.334 0.0 6.046			K Factor @ node DRP2 Vel = 12.48	
96 to 91	0.0 86.41	2.635 120.0 0.0220		0.0 0.0 0.0	9.500 0.0 9.500	24.380 0.0 0.209			Vel = 5.08	
91 to 85	102.29 188.7	2.635 120.0 0.0932		0.0 0.0 0.0	8.000 0.0 8.000	24.589 0.0 0.746			Vel = 11.10	
85 to R2A	88.05 276.75	2.635 120.0 0.1894	1B 1Fsp 1S 1T	9.61 0.0 19.22 16.474	28.000 45.304 73.304	25.335 3.000 13.882			* Fixed loss = 3 Vel = 16.28	
R2A to R2B	0.0 276.75	4.26 120.0 0.0182	1T	26.334 0.0 0.0	12.000 26.334 38.334	42.217 -5.847 0.699			Vel = 6.23	
R2B to R2C	0.0 276.75	4.26 120.0 0.0183	2E 1B 1T	26.334 15.8 26.334	163.000 68.468 231.468	37.069 0.0 4.225			Vel = 6.23	
R2C to A1	0.0 276.75	4.26 120.0 0.0183	1B 6E	15.8 79.002 0.0	30.500 94.802 125.302	41.294 6.063 2.287			Vel = 6.23	
A1 to TOR	0.0 276.75	4.26 120.0 0.0183	1T	26.334 0.0 0.0	3.000 26.334 29.334	49.644 1.732 0.536			Vel = 6.23	
TOR to BKFL	0.0 276.75	4.26 120.0 0.0182	1E	13.167 0.0 0.0	15.000 13.167 28.167	51.912 3.465 0.514			Vel = 6.23	
BKFL to BASE	0.0 276.75	4.026 120.0 0.0240	1Zac	0.0 0.0 0.0	1.000 0.0 1.000	55.891 3.928 0.024			* Fixed loss = 3.062 Vel = 6.97	
BASE to HOSE	0.0 276.75	6.16 140.0 0.0023	1E 1T 1G	20.084 43.037 4.304	60.000 67.425 127.425	59.843 0.0 0.291			Vel = 2.98	
HOSE to TEST	250.00 526.75	12.34 140.0 0.0002		0.0 0.0 0.0	50.000 0.0 50.000	60.134 0.0 0.012			Qa = 250 Vel = 1.41	
	0.0 526.75					60.146			K Factor = 67.92	

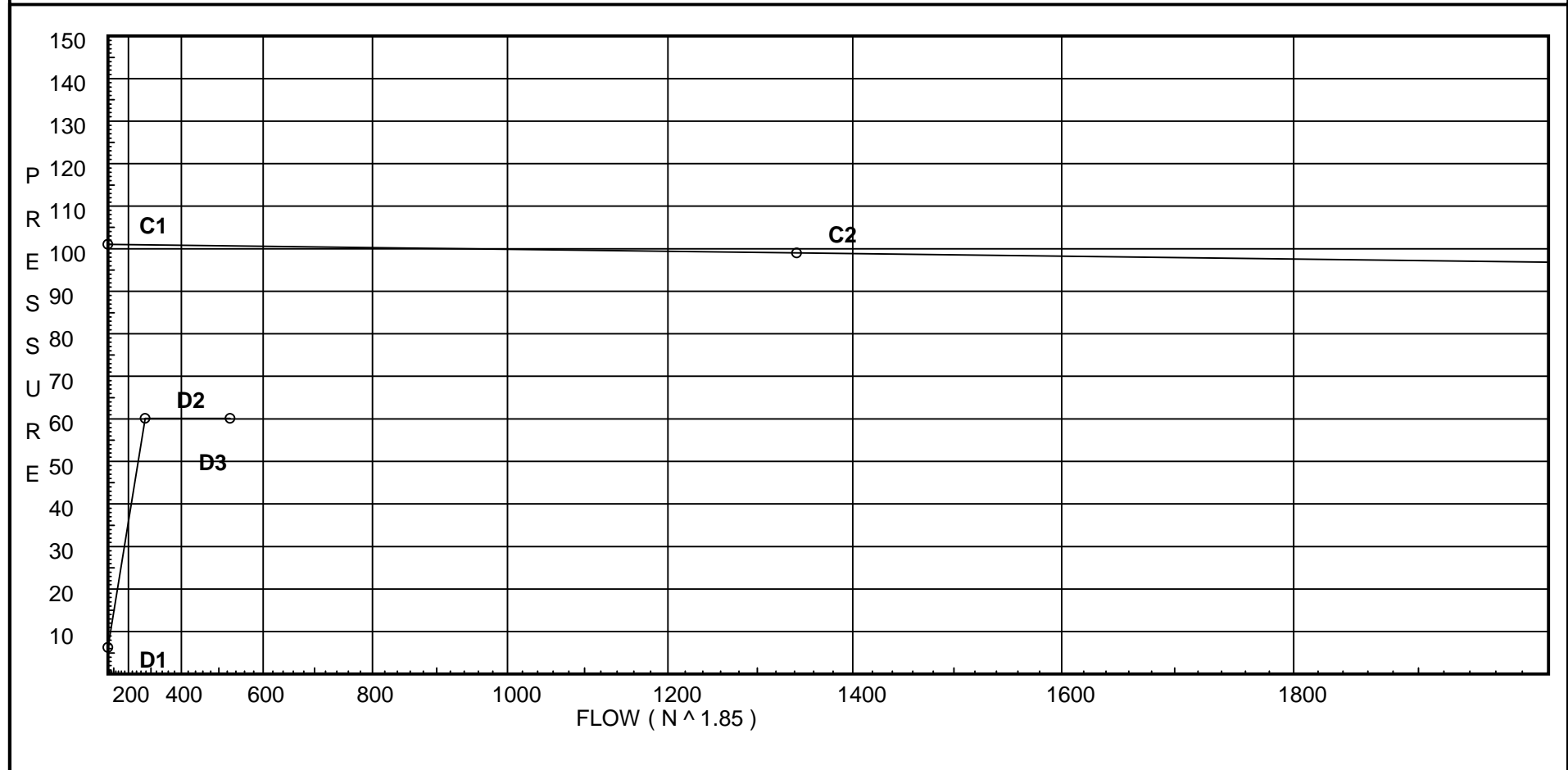
Water Supply Curve (C)

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City Water Supply:
C1 - Static Pressure : 101
C2 - Residual Pressure: 99
C2 - Residual Flow : 1342

Demand:
D1 - Elevation : 6.280
D2 - System Flow : 276.752
D2 - System Pressure : 60.146
Hose (Demand) : 250
D3 - System Demand : 526.752
Safety Margin : 40.499



Hydraulic Design Information Sheet

Name - HYATT PLACE PORTLAND AREA 8 Date - 07/12/13
 Location - FORE STREET PORTLAND, MAINE
 Building - NEW System No. - 1 WET
 Contractor - SPRINKLER SYSTEMS INC. Contract No. - 12101
 Calculated By - CDS Drawing No. - 1-4 OF 4
 Construction: () Combustible (x) Non-Combustible Ceiling Height - VARIES
 Occupancy - OFFICES

S (X) NFPA 13 (X) Lt. Haz. Ord.Haz.Gp. () 1 () 2 () 3 () Ex.Haz.
 Y () NFPA 231 () NFPA 231C () Figure Curve

S Other

T Specific Ruling Made By Date

E				
M	Area of Sprinkler Operation	- 1013	System Type	Sprinkler/Nozzle
	Density	- .10	(X) Wet	Make RELIABLE
D	Area Per Sprinkler	- 196	() Dry	Model F1FR
E	Elevation at Highest Outlet	- 38.500	() Deluge	Size 1/2" X 1/2"
S	Hose Allowance - Inside	- 0	() Preaction	K-Factor 5.6
I	Rack Sprinkler Allowance	- 0	() Other	Temp.Rat.155 DEG.
G	Hose Allowance - Outside	- 100		

N Note

Calculation Flow Required - 294.98 Press Required - 87.920 AT BASE
 Summary C-Factor Used: 120 Overhead 140 Underground

W	Water Flow Test:	Pump Data:	Tank or Reservoir:
A	Date of Test - 05/11/2013		Cap. -
T	Time of Test - AM	Rated Cap.-	Elev.-
E	Static Press - 101	@ Press -	
R	Residual Press - 99	Elev. -	Well
	Flow - 1342		Proof Flow
S	Elevation - 24.0'		

U Location - ON SITE

P Source of Information - OWNER AND WATER DISTRICT

C	Commodity	Class	Location
O	Storage Ht.	Area	Aisle W.
M	Storage Method:	%	Palletized % Rack
M	() Single Row	() Conven. Pallet	() Auto. Storage () Encap.
S	() Double Row	() Slave Pallet	() Solid Shelf () Non
T	() Mult. Row		() Open Shelf

R	K	Flue Spacing	Clearance:Storage to Ceiling
A		Longitudinal	Transverse

E Horizontal Barriers Provided:

Pressure / Flow Summary - STANDARD

SPRINKLER SYSTEMS INC.
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Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
TYP	0.0	5.6	12.25	na	19.6	0.1	196	7.0
TYP1	0.0	5.6	12.25	na	19.6	0.1	196	7.0
ARM1	38.5	5.6	22.81	na	26.74	0.1	196	7.0
ARM2	38.5	5.6	23.05	na	26.88	0.1	196	7.0
135	38.5		26.81	na				
136	38.5		27.09	na				
128	38.5	5.6	12.25	na	19.6	0.1	196	7.0
129	38.5	5.6	12.41	na	19.73	0.1	196	7.0
ARM3	38.5	5.6	12.37	na	19.69	0.1	196	7.0
126	38.5	K = K @ DRP2	14.04	na	19.89			
127	38.5	K = K @ DRP2	14.12	na	19.95			
130	38.5		14.38	na				
131	38.5		15.34	na				
132	38.5	K = K @ DRP1	15.92	na	20.76			
133	38.5	K = K @ DRP1	24.46	na	25.73			
121	38.5	K = K @ DRP2	19.65	na	23.54			
122	38.5	K = K @ DRP2	19.85	na	23.66			
123	38.5	K = K @ DRP1	20.54	na	23.58			
124	38.5	K = K @ DRP1	23.5	na	25.22			
125	38.5		26.51	na				
134	38.5		26.91	na				
137	38.5		28.16	na				
96	38.5		46.8	na				
91	38.5		48.82	na				
85	38.5		50.53	na				
R2A	38.5		69.15	na				
R2B	52.0		64.09	na				
R2C	52.0		68.84	na				
A1	38.0		77.48	na				
TOR	34.0		79.81	na				
BKFL	26.0		83.86	na				
BASE	24.0		87.92	na				
HOSE	24.0		88.25	na	100.0			
TEST	24.0		88.25	na				

The maximum velocity is 17.35 and it occurs in the pipe between nodes 137 and 96

Final Calculations - Hazen-Williams

SPRINKLER SYSTEMS INC.
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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
TYP to DRP1	19.60 19.6	1.049 120.0 0.1254	2E 4.0 1T 5.0 0.0	6.500 9.000 15.500	12.250 0.0 1.943		K Factor = 5.60 Vel = 7.28		
	0.0 19.60				14.193		K Factor = 5.20		
TYP1 to DRP2	19.60 19.6	1.049 120.0 0.1254	1T 5.0 0.0 0.0	6.000 5.000 11.000	12.250 0.0 1.379		K Factor = 5.60 Vel = 7.28		
	0.0 19.60				13.629		K Factor = 5.31		
ARM1 to 135	26.74 26.74	1.049 120.0 0.2227	1E 2.0 1T 5.0 0.0	11.000 7.000 18.000	22.805 0.0 4.009		K Factor = 5.60 Vel = 9.93		
	0.0 26.74				26.814		K Factor = 5.16		
ARM2 to 136	26.88 26.88	1.049 120.0 0.2249	1E 2.0 1T 5.0 0.0	11.000 7.000 18.000	23.045 0.0 4.049		K Factor = 5.60 Vel = 9.98		
	0.0 26.88				27.094		K Factor = 5.16		
135 to 136	26.74 26.74	1.682 120.0 0.0224	0.0 0.0 0.0	12.500 0.0 12.500	26.814 0.0 0.280		Vel = 3.86		
136 to 137	26.89 53.63	1.682 120.0 0.0809	1T 9.9 0.0 0.0	3.250 9.900 13.150	27.094 0.0 1.064		Vel = 7.74		
	0.0 53.63				28.158		K Factor = 10.11		
128 to 130	19.60 19.6	1.049 120.0 0.1254	1E 2.0 1T 5.0 0.0	10.000 7.000 17.000	12.250 0.0 2.131		K Factor = 5.60 Vel = 7.28		
	0.0 19.60				14.381		K Factor = 5.17		
129 to 130	19.73 19.73	1.049 120.0 0.1269	1E 2.0 1T 5.0 0.0	8.500 7.000 15.500	12.414 0.0 1.967		K Factor = 5.60 Vel = 7.32		
	0.0 19.73				14.381		K Factor = 5.20		
ARM3 to 131	19.69 19.69	1.049 120.0 0.1265	3E 6.0 1T 5.0 0.0	12.500 11.000 23.500	12.366 0.0 2.972		K Factor = 5.60 Vel = 7.31		
	0.0 19.69				15.338		K Factor = 5.03		
126 to 127	19.89 19.89	1.682 120.0 0.0129	0.0 0.0 0.0	6.500 0.0 6.500	14.040 0.0 0.084		K Factor @ node DRP2 Vel = 2.87		

Final Calculations - Hazen-Williams

SPRINKLER SYSTEMS INC.
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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftnng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
127 to 130	19.96 39.85	1.682 120.0 0.0467	0.0 0.0 0.0	5.500 0.0 5.500	14.124 0.0 0.257			K Factor @ node DRP2 Vel = 5.75	
130 to 131	39.33 79.18	1.682 120.0 0.1664	0.0 0.0 0.0	5.750 0.0 5.750	14.381 0.0 0.957			Vel = 11.43	
131 to 132	19.69 98.87	1.682 120.0 0.2511	0.0 0.0 0.0	2.330 0.0 2.330	15.338 0.0 0.585			Vel = 14.28	
132 to 133	20.76 119.63	1.682 120.0 0.3572	2E 9.9 0.0 0.0	14.000 9.900 23.900	15.923 0.0 8.537			K Factor @ node DRP1 Vel = 17.27	
133 to 134	25.73 145.36	2.157 120.0 0.1525	1T 12.307 0.0 0.0	3.750 12.307 16.057	24.460 0.0 2.449			K Factor @ node DRP1 Vel = 12.76	
	0.0 145.36				26.909			K Factor = 28.02	
121 to 122	23.54 23.54	1.682 120.0 0.0176	0.0 0.0 0.0	11.250 0.0 11.250	19.654 0.0 0.198			K Factor @ node DRP2 Vel = 3.40	
122 to 123	23.65 47.19	1.682 120.0 0.0640	0.0 0.0 0.0	10.750 0.0 10.750	19.852 0.0 0.688			K Factor @ node DRP2 Vel = 6.81	
123 to 124	23.58 70.77	1.682 120.0 0.1352	2E 9.9 0.0 0.0	12.000 9.900 21.900	20.540 0.0 2.961			K Factor @ node DRP1 Vel = 10.22	
124 to 125	25.22 95.99	1.682 120.0 0.2377	1T 9.9 0.0 0.0	2.750 9.900 12.650	23.501 0.0 3.007			K Factor @ node DRP1 Vel = 13.86	
125 to 134	0.0 95.99	2.635 120.0 0.0267	0.0 0.0 0.0	15.000 0.0 15.000	26.508 0.0 0.401			Vel = 5.65	
134 to 137	145.36 241.35	2.635 120.0 0.1469	0.0 0.0 0.0	8.500 0.0 8.500	26.909 0.0 1.249			Vel = 14.20	
137 to 96	53.63 294.98	2.635 120.0 0.2131	2E 16.474 0.0 0.0	71.000 16.474 87.474	28.158 0.0 18.640			Vel = 17.35	
96 to 91	0.0 294.98	2.635 120.0 0.2131	0.0 0.0 0.0	9.500 0.0 9.500	46.798 0.0 2.024			Vel = 17.35	
91 to 85	0.0 294.98	2.635 120.0 0.2131	0.0 0.0 0.0	8.000 0.0 8.000	48.822 0.0 1.705			Vel = 17.35	
85 to R2A	0.0 294.98	2.635 120.0 0.2131	1B 9.61 1Fsp 0.0 1S 19.22	28.000 45.304 73.304	50.527 3.000 15.621			* Fixed loss = 3 Vel = 17.35	

Final Calculations - Hazen-Williams

SPRINKLER SYSTEMS INC.
Hyatt Place Area 8

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
			1T	16.474					
R2A to R2B	0.0 294.98	4.26 120.0 0.0205	1T	26.334	12.000 26.334 38.334	69.148 -5.847 0.787		Vel = 6.64	
R2B to R2C	0.0 294.98	4.26 120.0 0.0205	2E 1B 1T	26.334 15.8 26.334	163.000 68.468 231.468	64.088 0.0 4.754		Vel = 6.64	
R2C to A1	0.0 294.98	4.26 120.0 0.0205	1B 6E	15.8 79.002	30.500 94.802 125.302	68.842 6.063 2.573		Vel = 6.64	
A1 to TOR	0.0 294.98	4.26 120.0 0.0206	1T	26.334	3.000 26.334 29.334	77.478 1.732 0.603		Vel = 6.64	
TOR to BKFL	0.0 294.98	4.26 120.0 0.0205	1E	13.167	15.000 13.167 28.167	79.813 3.465 0.578		Vel = 6.64	
BKFL to BASE	0.0 294.98	4.026 120.0 0.0280	1Zac	0.0	1.000 0.0 1.000	83.856 4.036 0.028		* Fixed loss = 3.17 Vel = 7.43	
BASE to HOSE	0.0 294.98	6.16 140.0 0.0026	1E 1T 1G	20.084 43.037 4.304	60.000 67.425 127.425	87.920 0.0 0.326		Vel = 3.18	
HOSE to TEST	100.00 394.98	12.34 140.0 0.0002			0.0 50.000 0.0 50.000	88.246 0.0 0.0 0.008		Qa = 100 Vel = 1.06	
	0.0 394.98					88.254		K Factor = 42.04	

Water Supply Curve (C)

SPRINKLER SYSTEMS INC.
Hyatt Place Area 8

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City Water Supply:
C1 - Static Pressure : 101
C2 - Residual Pressure: 99
C2 - Residual Flow : 1342

Demand:
D1 - Elevation : 6.280
D2 - System Flow : 294.978
D2 - System Pressure : 88.254
Hose (Demand) : 100
D3 - System Demand : 394.978
Safety Margin : 12.538

