



**... Fire Protection by Computer Design**

Dean and Allyn Inc  
116 Lewiston Road  
Gray ME, 04039  
(207)657-5646

Job Name : MAINE MEDICAL CENTER  
Building : PAVILION A 4.5TH FLOOR  
Location : AREA 1  
System : WET  
Contract : C151305  
Data File : C1305 4.5 rev2.WXF

Hydraulic Design Information Sheet

Name - MAINE MEDICAL CENTER Date - 11/25/15  
 Location - AREA 1  
 Building - PAVILION A 4.5TH FLOOR System No. - WET  
 Contractor - DEAN & ALLYN INC Contract No. - C151305  
 Calculated By - S. COTE Drawing No. - 1 OF 5  
 Construction: ( ) Combustible (X) Non-Combustible Ceiling Height - VARIES  
 Occupancy - NFPA 13 ORDINARY HAZARD (FM HC-2)

S (X) NFPA 13 ( ) Lt. Haz. Ord.Haz.Gp. ( ) 1 (X) 2 ( ) 3 ( ) Ex.Haz.  
 Y ( ) NFPA 231 ( ) NFPA 231C ( ) Figure Curve  
 S Other FM GLOBAL HC-2  
 T Specific Ruling Made By Date

M	Area of Sprinkler Operation	- 2500	System Type	Sprinkler/Nozzle
	Density	- .15	(X) Wet	Make RELIABLE
D	Area Per Sprinkler	- VAIRES	( ) Dry	Model F1FR56
E	Elevation at Highest Outlet	- 56.166	( ) Deluge	Size 1/2"
S	Hose Allowance - Inside	- -	( ) Preaction	K-Factor 5.6
I	Rack Sprinkler Allowance	- -	( ) Other	Temp.Rat.200
G	Hose Allowance - Outside	- 100		

N Note

Calculation Flow Required - 542.144 Press Required - 165.888  
 Summary C-Factor Used: 120 Overhead 140 Underground

W	Water Flow Test:	Pump Data:	Tank or Reservoir:
A	Date of Test - 2015		Cap. -
T	Time of Test - AM	Rated Cap.-	Elev.-
E	Static Press - 210	@ Press -	
R	Residual Press - 180	Elev. -	Well
	Flow - 1467		Proof Flow
S	Elevation -		

U Location -

P Source of Information - DEAN & ALLYN INC FIRE PUMP TEST

C	Commodity	Class	Location	
O	Storage Ht.	Area	Aisle W.	
M	Storage Method:	%	Palletized %	Rack
	( ) 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

G Horizontal Barriers Provided:

# Fittings Used Summary

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MAINE MEDICAL CENTER

Page 2  
Date 11/25/15

## Fitting Legend

Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
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	1	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

## 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

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 3  
Date 11/25/15

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
50	56.0	5.6	20.18	na	25.16	0.15	114	7.0
51	56.0	5.6	22.47	na	26.55	0.15	114	7.0
52	56.0	5.6	27.63	na	29.44	0.15	122	7.0
53	56.0	5.6	36.67	na	33.91	0.15	126	7.0
54	56.0	5.6	11.03	na	18.6	0.15	124	7.0
55	56.0	5.6	11.03	na	18.6	0.15	124	7.0
56	56.0	5.6	13.19	na	20.34	0.15	124	7.0
57	56.0	5.6	15.5	na	22.04	0.15	114	7.0
58	56.0	5.6	23.72	na	27.27	0.15	124	7.0
59	56.0	5.6	40.81	na	35.77	0.15	124	7.0
60	55.5	5.6	11.56	na	19.04	0.15	115	7.0
61	55.25	5.6	12.86	na	20.08	0.15	115	7.0
62	55.25	5.6	14.2	na	21.1	0.15	115	7.0
63	55.25	5.6	17.17	na	23.2	0.15	115	7.0
64	56.083	5.6	24.24	na	27.57	0.15	115	7.0
65	56.083	5.6	31.19	na	31.27	0.15	115	7.0
66	56.166	5.6	11.38	na	18.89	0.15	115	7.0
67	56.166	5.6	11.7	na	19.16	0.15	115	7.0
68	56.166	5.6	12.86	na	20.09	0.15	115	7.0
69	56.166	5.6	15.42	na	21.99	0.15	115	7.0
70	56.166	5.6	27.38	na	29.3	0.15	115	7.0
71	56.166	5.6	34.25	na	32.77	0.15	115	7.0
500	55.5		20.89	na				
501	55.5		23.9	na				
502	55.5		29.31	na				
503	55.5		38.79	na				
54A	53.25		13.15	na				
508	53.25		13.48	na				
509	54.333		15.39	na				
510	54.333		17.93	na				
511	54.333		26.98	na				
512	54.083		45.2	na				
507A	54.083		21.57	na				
60A	55.25		12.31	na				
515	55.25		26.62	na				
516	55.25		34.1	na				
601A	56.083		64.21	na				
517	55.333		12.89	na				
519	55.333		13.24	na				
520	55.333		14.51	na				
521	55.333		17.3	na				
522	55.333		30.32	na				
525	55.333		37.61	na				
600A	55.333		74.45	na				
518A	55.333		20.87	na				
523	55.5		21.55	na				
507	55.25		21.11	na				
524	55.25		21.08	na				
514	55.25		21.02	na				
600	54.083		82.71	na				
601	54.083		82.88	na				
603	54.083		83.9	na				
604	54.083		84.09	na				
605	54.083		84.35	na				
606	54.083		100.1	na				
607	55.625		116.67	na				
122	49.291		121.58	na				
75	-1.666		147.56	na				
TI	-3.5		157.96	na				
109	-8.5		161.11	na				
BR	-8.5		162.2	na				
TEST	-16.51		165.89	na				

# Flow Summary - Standard

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Page 4  
Date 11/25/15

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Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
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The maximum velocity is 28.8 and it occurs in the pipe between nodes 503 and 603

# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 5  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
50 to 500	25.16 25.16	1.049 120.0 0.1988	E	2.0 0.0 0.0	0.500 2.000 2.500	20.180 0.217 0.497			K Factor = 5.60 Vel = 9.34	
	0.0 25.16						20.894		K Factor = 5.50	
51 to 501	26.55 26.55	1.049 120.0 0.2196	T	5.0 0.0 0.0	0.500 5.000 5.500	22.472 0.217 1.208			K Factor = 5.60 Vel = 9.86	
	0.0 26.55						23.897		K Factor = 5.43	
52 to 502	29.44 29.44	1.049 120.0 0.2660	T	5.0 0.0 0.0	0.500 5.000 5.500	27.632 0.217 1.463			K Factor = 5.60 Vel = 10.93	
	0.0 29.44						29.312		K Factor = 5.44	
53 to 503	33.91 33.91	1.049 120.0 0.3455	T	5.0 0.0 0.0	0.500 5.000 5.500	36.673 0.217 1.900			K Factor = 5.60 Vel = 12.59	
	0.0 33.91						38.790		K Factor = 5.44	
54 to 54A	18.60 18.6	1.049 120.0 0.1137	2E	4.0 0.0 0.0	4.080 4.000 8.080	11.035 1.191 0.919			K Factor = 5.60 Vel = 6.90	
	0.0 18.60						13.145		K Factor = 5.13	
55 to 508	18.60 18.6	1.049 120.0 0.1138	E T	2.0 5.0 0.0	4.080 7.000 11.080	11.032 1.191 1.261			K Factor = 5.60 Vel = 6.90	
	0.0 18.60						13.484		K Factor = 5.07	
56 to 509	20.34 20.34	1.049 120.0 0.1343	E T	2.0 5.0 0.0	4.000 7.000 11.000	13.188 0.722 1.477			K Factor = 5.60 Vel = 7.55	
	0.0 20.34						15.387		K Factor = 5.19	
57 to 510	22.04 22.04	1.049 120.0 0.1558	E T	2.0 5.0 0.0	4.000 7.000 11.000	15.496 0.722 1.714			K Factor = 5.60 Vel = 8.18	
	0.0 22.04						17.932		K Factor = 5.20	
58 to 511	27.27 27.27	1.049 120.0 0.2310	E T	2.0 5.0 0.0	4.000 7.000 11.000	23.715 0.722 2.541			K Factor = 5.60 Vel = 10.12	
	0.0 27.27						26.978		K Factor = 5.25	
59 to 512	35.77 35.77	1.049 120.0 0.3817	E T	2.0 5.0 0.0	2.333 7.000 9.333	40.809 0.830 3.562			K Factor = 5.60 Vel = 13.28	

# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 6  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	0.0 35.77						45.201		K Factor = 5.32	
60 to 60A	19.04 19.04	1.097 120.0 0.0956	T	6.217 0.0 0.0	0.500 6.217 6.717	11.556 0.108 0.642			K Factor = 5.60	
	0.0 19.04						12.306		K Factor = 5.43	
61 to 62	39.12 39.12	1.442 120.0 0.0956		0.0 0.0 0.0	14.000 0.0 14.000	12.860 0.0 1.338			K Factor = 5.60	
62 to 63	21.10 60.22	1.442 120.0 0.2123		0.0 0.0 0.0	14.000 0.0 14.000	14.198 0.0 2.972			K Factor = 5.60	
63 to 514	23.20 83.42	1.442 120.0 0.3880	T	7.432 0.0 0.0	2.500 7.432 9.932	17.170 0.0 3.854			K Factor = 5.60	
	0.0 83.42						21.024		K Factor = 18.19	
64 to 515	27.57 27.57	1.049 120.0 0.2356	E T	2.0 5.0 0.0	1.583 7.000 8.583	24.237 0.361 2.022			K Factor = 5.60	
	0.0 27.57						26.620		K Factor = 5.34	
65 to 516	31.27 31.27	1.049 120.0 0.2976	E T	2.0 5.0 0.0	1.583 7.000 8.583	31.186 0.361 2.554			K Factor = 5.60	
	0.0 31.27						34.101		K Factor = 5.35	
66 to 517	18.89 18.89	1.049 120.0 0.1171	E T	2.0 5.0 0.0	2.803 7.000 9.803	11.383 0.361 1.148			K Factor = 5.60	
	0.0 18.89						12.892		K Factor = 5.26	
67 to 519	19.16 19.16	1.049 120.0 0.1202	E T	2.0 5.0 0.0	2.803 7.000 9.803	11.701 0.361 1.178			K Factor = 5.60	
	0.0 19.16						13.240		K Factor = 5.27	
68 to 520	20.09 20.09	1.049 120.0 0.1311	E T	2.0 5.0 0.0	2.803 7.000 9.803	12.865 0.361 1.285			K Factor = 5.60	
	0.0 20.09						14.511		K Factor = 5.27	
69 to 521	21.99 21.99	1.049 120.0 0.1550	E T	2.0 5.0 0.0	2.803 7.000 9.803	15.416 0.361 1.519			K Factor = 5.60	
	0.0									

# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 7  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftnng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	21.99						17.296		K Factor = 5.29	
70 to 522	29.30 29.3	1.049 120.0 0.2637	E T	2.0 5.0 0.0	2.803 7.000 9.803	27.376 0.361 2.585			K Factor = 5.60	
	0.0 29.30						30.322		K Factor = 5.32	
71 to 525	32.77 32.77	1.097 120.0 0.2610	E T	2.487 6.217 0.0	2.803 8.704 11.507	34.251 0.361 3.003			K Factor = 5.60	
	0.0 32.77						37.615		K Factor = 5.34	
500 to 523	25.16 25.16	1.442 120.0 0.0422	T	7.432 0.0 0.0	8.083 7.432 15.515	20.894 0.0 0.655				Vel = 4.94
	0.0 25.16						21.549		K Factor = 5.42	
501 to 523	-56.73 -56.73	1.442 120.0 -0.1902	T	7.432 0.0 0.0	4.916 7.432 12.348	23.897 0.0 -2.348				Vel = 11.14
	0.0 -56.73						21.549		K Factor = -12.22	
501 to 502	83.27 83.27	1.442 120.0 0.3868		0.0 0.0 0.0	14.000 0.0 14.000	23.897 0.0 5.415				Vel = 16.36
502 to 503	29.44 112.71	1.442 120.0 0.6770		0.0 0.0 0.0	14.000 0.0 14.000	29.312 0.0 9.478				Vel = 22.14
503 to 603	33.91 146.62	1.442 120.0 1.1015	E T	3.716 7.432 0.0	29.250 11.148 40.398	38.790 0.614 44.497				Vel = 28.80
	0.0 146.62						83.901		K Factor = 16.01	
54A to 508	18.60 18.6	1.442 120.0 0.0242		0.0 0.0 0.0	14.000 0.0 14.000	13.145 0.0 0.339				Vel = 3.65
508 to 509	18.60 37.2	1.442 120.0 0.0871	3E	11.148 0.0 0.0	16.083 11.148 27.231	13.484 -0.469 2.372				Vel = 7.31
509 to 510	20.34 57.54	1.442 120.0 0.1952		0.0 0.0 0.0	13.041 0.0 13.041	15.387 0.0 2.545				Vel = 11.30
510 to 507A	22.04 79.58	1.442 120.0 0.3556	T	7.432 0.0 0.0	2.500 7.432 9.932	17.932 0.108 3.532				Vel = 15.63
	0.0 79.58						21.572		K Factor = 17.13	
511 to 507A	-71.44 -71.44	1.442 120.0 -0.2913	T	7.432 0.0 0.0	11.500 7.432 18.932	26.978 0.108 -5.514				Vel = 14.03



# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 8  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	0.0 -71.44						21.572		K Factor = -15.38	
512 to 511	-98.71	1.442 120.0	4E	14.864	19.333 14.864	45.201 -0.108			Vel = 19.39	
	-98.71	-0.5297		0.0	34.197	-18.115				
	0.0 -98.71						26.978		K Factor = -19.00	
512 to 604	134.48	1.442 120.0	T	7.432	34.000 7.432	45.201 0.0			Vel = 26.42	
	134.48	0.9387		0.0	41.432	38.891				
	0.0 134.48						84.092		K Factor = 14.66	
507A to 507	8.15	1.442 120.0	T	7.432	0.916 7.432	21.572 -0.505			Vel = 1.60	
	8.15	0.0053		0.0	8.348	0.044				
	0.0 8.15						21.111		K Factor = 1.77	
60A to 61	19.04	1.442 120.0	2E	7.432	14.500 7.432	12.306 0.0			Vel = 3.74	
	19.04	0.0253		0.0	21.932	0.554				
	0.0 19.04						12.860		K Factor = 5.31	
515 to 524	-71.60	1.442 120.0	T	7.432	11.500 7.432	26.620 0.0			Vel = 14.07	
	-71.6	-0.2925		0.0	18.932	-5.538				
	0.0 -71.60						21.082		K Factor = -15.59	
515 to 516	99.17	1.442 120.0		0.0	14.000 0.0	26.620 0.0			Vel = 19.48	
	99.17	0.5344		0.0	14.000	7.481				
516 to 601A	31.28	1.442 120.0	2E	7.432	26.916 7.432	34.101 -0.361			Vel = 25.63	
	130.45	0.8872		0.0	34.348	30.475				
601A to 601	0.0	1.442 120.0	E T	3.716	8.916 11.148	64.215 0.866			Vel = 25.63	
	130.45	0.8872		0.0	20.064	17.801				
	0.0 130.45						82.882		K Factor = 14.33	
517 to 519	18.89	1.442 120.0		0.0	14.000 0.0	12.892 0.0			Vel = 3.71	
	18.89	0.0249		0.0	14.000	0.348				
519 to 520	19.16	1.442 120.0		0.0	14.000 0.0	13.240 0.0			Vel = 7.48	
	38.05	0.0908		0.0	14.000	1.271				
520 to 521	20.09	1.442 120.0		0.0	14.000 0.0	14.511 0.0			Vel = 11.42	
	58.14	0.1989		0.0	14.000	2.785				

# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 9  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
521 to 518A	21.98 80.12	1.442 120.0 0.3601	T	7.432 0.0 0.0	2.500 7.432 9.932	17.296 0.0 3.577				
	0.0 80.12						20.873		Vel = 15.74	
									K Factor = 17.54	
522 to 518A	-68.52 -68.52	1.442 120.0 -0.2696	4E T	14.864 7.432 0.0	12.750 22.296 35.046	30.322 0.0 -9.449				
	0.0 -68.52						20.873		Vel = 13.46	
									K Factor = -15.00	
522 to 525	97.82 97.82	1.442 120.0 0.5209		0.0 0.0 0.0	14.000 0.0 14.000	30.322 0.0 7.293				
									Vel = 19.22	
525 to 600A	32.77 130.59	1.442 120.0 0.8891	T	7.432 0.0 0.0	34.000 7.432 41.432	37.615 0.0 36.836				
	0.0 130.59		T	7.432 0.0 0.0	1.250 7.432 8.682	74.451 0.541 7.720			Vel = 25.65	
							82.712		K Factor = 14.36	
518A to 518	11.60 11.6	1.442 120.0 0.0100	T	7.432 0.0 0.0	0.833 7.432 8.265	20.873 23.965 0.083				
	0.0 11.60						44.921		Vel = 2.28	
									K Factor = 1.73	
523 to 507	-31.57 -31.57	2.157 120.0 -0.0090	7E	43.073 0.0 0.0	17.375 43.074 60.449	21.549 0.108 -0.546				
	8.15	2.157 120.0		0.0 0.0	5.458 0.0	21.111 0.0			Vel = 2.77	
507 to 524	-23.42	-0.0053		0.0	5.458	-0.029			Vel = 2.06	
524 to 514	-71.61 -95.03	2.157 120.0 -0.0696		0.0 0.0 0.0	0.833 0.0 0.833	21.082 0.0 -0.058				
	83.43	2.157 120.0	2E	12.307 0.0	10.291 12.307	21.024 23.929			Vel = 8.34	
514 to 518	-11.6	-0.0014		0.0	22.598	-0.032			Vel = 1.02	
	0.0 -11.60						44.921		K Factor = -1.73	
600 to 601	130.59 130.59	3.26 120.0 0.0167		0.0 0.0 0.0	10.208 0.0 10.208	82.712 0.0 0.170				
									Vel = 5.02	
601 to 605	130.45 261.04	3.26 120.0 0.0603	T	20.159 0.0 0.0	4.208 20.159 24.367	82.882 0.0 1.469				
	0.0								Vel = 10.03	

# Final Calculations - Hazen-Williams

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 10  
Date 11/25/15

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	261.04					84.351			K Factor = 28.42	
603 to 604	146.62	3.26 120.0		0.0	9.208 0.0	83.901 0.0				
604 to 605	146.62	0.0207		0.0	9.208	0.191			Vel = 5.64	
604 to 605	134.48	3.26 120.0		0.0	3.750 0.0	84.092 0.0				
605 to 606	281.1	0.0691		0.0	3.750	0.259			Vel = 10.80	
605 to 606	261.04	3.26 120.0	T	20.159 0.0	47.416 20.159	84.351 0.0				
606 to 607	542.14	0.2330		0.0	67.575	15.747			Vel = 20.84	
606 to 607	0.0	3.26 120.0	T B S Fsp	20.159 13.44 21.503 0.0	6.000 55.102 61.102	100.098 2.332 14.238			** Fixed Loss = 3 Vel = 20.84	
	0.0 542.14					116.668			K Factor = 50.19	
607 to 122	542.14	4.26 120.0	T	26.334 0.0	8.000 26.334	116.668 2.743				
122 to 75	542.14	0.0633		0.0	34.334	2.174			Vel = 12.20	
122 to 75	0.0	4.26 120.0	G 3E	2.633 39.501	19.500 42.134	121.585 22.070				
75 to TI	542.14	0.0633		0.0	61.634	3.902			Vel = 12.20	
75 to TI	0.0	4.26 120.0	8E T	105.337 26.334	20.000 131.671	147.557 0.794				
	0.0 542.14					151.671	9.604		Vel = 12.20	
	0.0 542.14					157.955			K Factor = 43.14	
TI to 109	542.14	6.065 120.0	T	30.0 0.0	57.000 30.000	157.955 2.166				
109 to BR	542.14	0.0113		0.0	87.000	0.986			Vel = 6.02	
109 to BR	0.0	6.065 120.0	Fsp G	0.0 3.0	5.000 3.000	161.107 1.000			** Fixed Loss = 1	
BR to TEST	542.14	0.0114		0.0	8.000	0.091			Vel = 6.02	
BR to TEST	0.0	6.065 120.0	E	14.0 0.0	5.500 14.000	162.198 3.469				
	0.0 542.14	0.0113		0.0	19.500	0.221			Vel = 6.02	
	0.0 542.14					165.888			K Factor = 42.09	

# Water Supply Curve C

Dean and Allyn Inc  
MAINE MEDICAL CENTER

Page 11  
Date 11/25/15

City Water Supply:  
C1 - Static Pressure : 210  
C2 - Residual Pressure: 180  
C2 - Residual Flow : 1467

Demand:  
D1 - Elevation : 31.404  
D2 - System Flow : 542.144  
D2 - System Pressure : 165.888  
Hose ( Demand ) : \_\_\_\_\_  
D3 - System Demand : 542.144  
Safety Margin : 39.355

