

Area B8 Hydraulic Calculation - 6th Floor Corridor

1. Criteria: 20 gpm per square foot over the remote 5 sprinklers in corridor. Guest Rooms are protected by self-closing fire doors. Hose allowance of 100 GPM added.
2. 0.5 sprinklers operating.
3. System demand at flow level 176.17 GPM @ 46.7' PSL. This includes 100 GPM Hose Allowance. A Safety Factor of 0.88 PSL is available.

Area B7 Hydraulic Calculation - 6th Floor Guest Room

1. Criteria: 20 gpm per square foot over the most remote room plus heads in each sleeping space not protected by self-closing fire door with hose allowance of 100 GPM added.
2. 0.5 sprinklers operating.
3. System demand at flow level 264.23 GPM @ 99.08' PSL. This includes 100 GPM Hose Allowance. A Safety Factor of 0.88 PSL is available.

TOP OF STEEL
164'-1 1/2" U.N.O.

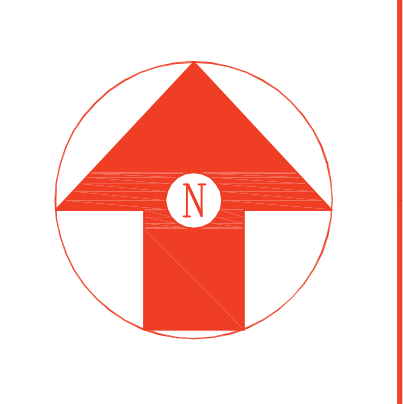
TOP OF JOISTS + 2 1/2"

TOP OF GIRDERS + 0"

6th Floor Fire Sprinkler Plan
1/8" = 1'-0"

Sprinkler Head Schedule					
Symbol	Count	Thread	K-Factor	Description	Note
●	112	1/2"	5.6	RELIABLE F1FR-56, 155' WHITE RECESSED PENDENT	RA1414
▲	46	1/2"	4.2	RELIABLE F1FR WHITE QR RECESSED PENDENT	RA1413
○	2	1/2"	5.6	RELIABLE F1FR-56, 155' BRASS UPRIGHT	RA1425
◀	1	1/2"	5.6	RELIABLE G STD RESP HSW 212'	R1235

161 = Total Number of Heads this floor



Hampshire
FIRE PROTECTION

8 NORTH WENTWORTH AVENUE LONDONDERRY, NH 03053
PH: (603) 432-8221 FAX: (603) 434-3194
WEBSITE: HAMPSHIREFIRE.COM
MASS LIC# 003841 MAINE LIC# 238 VERMONT CERTIFIED

WATER SUPPLY DATA	
Static pressure	108 psi
Residual pressure	102 psi
Flow	1537 gpm
Location	Corner of Commercial & Maple
Elevation	0'-0"
Date	May 11 2013 Time 8:00 AM
Information	Portland Water

SPRINKLERS	
Total This Sheet	Total This Job
Symbol	Description

Drawing 6th Floor Fire Sprinkler Plan		
Title	Revisions:	Date:
Contract No: 4398CMB	1	
Drawn By: EWV	2	
Scale: As Noted	3	
Date: 05-25-13	4	
Approval By: Portland ME	5	
	6	
	7	

Project:
Marriott Courtyard Hotel
321 Commercial Street
Portland ME 04101

Contract with:
Opechee Construction
11 Corporate Drive
Belmont NH 03220

FIRE PROTECTION ENGINEER STAMP