2nd Floor 9 Sprinklers

1st Floor 7 Sprinklers

7	1st Floor
9	2nd Floor
16	TOTAL

Most Demanding Single Head Information	
Information	Results
Flow Required at Head (GPM):	13
Source Pressure at Head (PSI):	7.04
Maximum Spacing (length):	16
Maximum Spacing (Width):	16
Domestic Flow Added (GPM):	0
Sprinkler Model:	VK457
Elevation of Highest Head:	134
K-Factor	4.9
Temperature Rating:	165
Flow Required at Source (GPM)	13
Pressure Required at Source (psi)	44.84
Source Reference Point:	At Ref Pt STR
C-Factor of Sprinkler Pipe	150
C-Factor of Service Line	150
Head Reference Point:	H.8

Most Demanding Two Head Information	
Information	Results
Flow Required at Head (GPM):	13
Source Pressure at Head (PSI):	7.04
Maximum Spacing (length):	16
Maximum Spacing (Width):	16
Domestic Flow Added (GPM):	0
Sprinkler Model:	VK457
Elevation of Highest Head:	134
K-Factor	4.9
Temperature Rating:	165
Flow Required at Source (GPM)	26.1437
Pressure Required at Source (psi)	59.15
Source Reference Point:	At Ref Pt STR
C-Factor of Sprinkler Pipe	150
C-Factor of Service Line	150
Head Reference Point:	H.5 & H.11

LEGEND

	Manifold
A	Inter Level Connection
	Hot Water Fixture
	Cold Water Fixture
	Type K Copper w/ ProPress Fittings
	Type L Copper w/ ProPress Fittings
	Type M Copper w/ ProPress Fittings
	ViegaPEX Ultra Black
	ViegaPEX Ultra Blue - Cold Plumbing
	ViegaPEX Ultra Blue - Hot Plumbing

VK457-16 - - - 15 — ~~VIKING Model VK457 Freedom Concealed Spr FP K=4.9, 165F°, 7/16" Orifice, Maximum Spacing 16'x16' Sprinkler head demand: 13 gpm @ 7.04~~

VK300-200 - - - 1 — VIKING Model VK300 QR Upright Spr K=5.6, 200F°, 1/2" Orifice, Maximum Spacing 12'x12' Sprinkler head demand: 14.8 gpm @ 7

Flow at Source (GPM): 1221
Supply Static Pressure (PSI): 72
Residual Pressure (PSI): 68
Supply Elevation (FT): 85
Information Source: JIM ROBINSON / SONIA BARRANTES

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/26/13

Viega

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VIEGA 13D Fire Protection Design

TECHNICAL SERVICE DEPARTMENT
59E DANIEL WEBSTER HIGHWAY, MERRIMACK, NH 03054
Ph.: 603 882 7171, Fx.: 603-579-9673

Project:
THE PORTLAND PASSIVE HOUSE
760 OCEAN AVE.
PORTLAND, ME. 04103

Dwg no.: **FP1**

Title: **FIRST & SECOND FLOORS**

Quotation no.: FPTK1301-009 ME	
Drawn by:	T.K.
Approv. by:	
Date Submitted:	JAN. 16, 2013
Scale:	1/4" = 1'
Revisions No:	Revision Date: