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VIEGA 13D Fire Protection Design

TECHNICAL SERVICE DEPARTMENT
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Project:
THE WALLACE RESIDENCE
280 PERSUMPCOT ST.
PORTLAND MAINE 04103

Dwg no.:

FP1

Title:

BASEMENT

Quotation no.: FPTK1204-004 ME REV-2

Drawn by: TK

Approved by:

Date Submitted: **JUNE 8, 2012**

Scale: 1/2" = 1'

Revisions No: Revision Date:

REV-1 JUNE 6, 2012

REV-2 JUNE 8, 2012

Most Demanding Single Head Information	
Information	Results
Flow Required at Head (GPM):	14.1
Source Pressure at Head (PSI):	10.2
Maximum Spacing (length):	14
Maximum Spacing (Width):	14
Domestic Flow Added (GPM):	0
Sprinkler Model:	F1-R44-<
Elevation of Highest Head:	127
K-Factor:	4.4
Temperature Rating:	155
Flow Required at Source (GPM):	14.1
Pressure Required at Source (psi):	41.24
Source Reference Point:	At Ref Pt TANK
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:	F1-R49
Elevation of Highest Head:	127
K-Factor:	4.9
Temperature Rating:	155
Flow Required at Source (GPM):	26.0651
Pressure Required at Source (psi):	51.28
Source Reference Point:	At Ref Pt TANK
C-Factor of Sprinkler Pipe:	150
C-Factor of Service Line:	150
Head Reference Point:	H.20 & H.17

LEGEND	
-----	Manifold
○ A	Inter Level Connection
● irAB1+	Hot Water Fixture
● irAB1+	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

- R49-16-175 --- 4 RELIABLE Model F1-R49 Recessed Pendant Spr
K=4.9, 175F°, 7/16" Orifice, Maximum Spacing 16"x16"
Sprinkler head demand: 13 gpm @ 7.04
- ◇ R44-12 --- 8 RELIABLE Model F1-R44-< HSW 4-6 below clg
K=4.4, 155F°, 3/8" Orifice, Maximum Spacing 12"x12"
Sprinkler head demand: 12 gpm @ 7.5
- R49-16 --- 7 RELIABLE Model F1-R49 Recessed Pendant Spr
K=4.9, 155F°, 7/16" Orifice, Maximum Spacing 16"x16"
Sprinkler head demand: 13 gpm @ 7.04
- ◇ R44-14 --- 1 RELIABLE Model F1-R44-< HSW 4-6 below clg
K=4.4, 155F°, 3/8" Orifice, Maximum Spacing 14"x14"
Sprinkler head demand: 14.1 gpm @ 10.2

