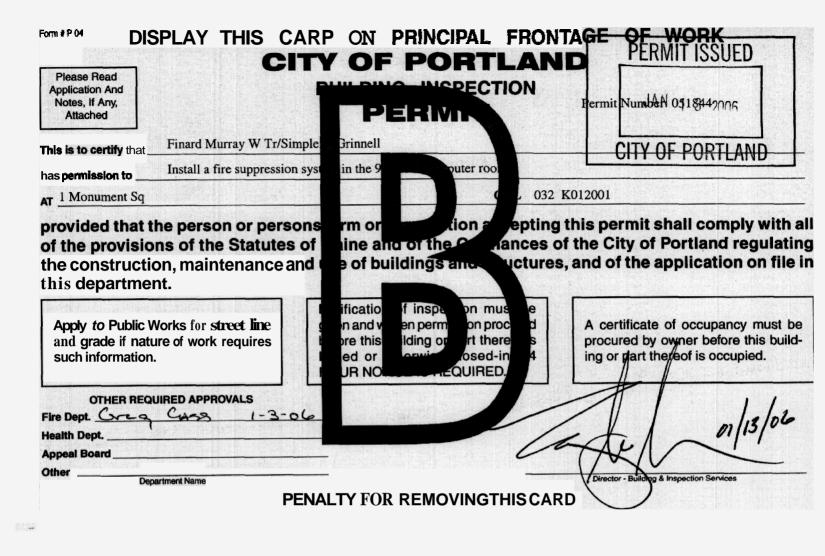


Location of Construction:	04101 Tel: (207) 874-8703	, 1 ax. (207) 074-071	6 05-1844 Owner Address:	JAN 13	2006 Phone:	K012001
1 Monument Sq	Alter and the second states of prove the second	Finard Murray W Tr		Square Suite 20		
Business Name:	siness Name: Contractor Name:		Contractor Address	And the local division of the local division	RTLAPhone	
	Simplex / Grin	nnell	20 Thomas Driv		207842	6440
Lessee/Buyer's Name	Phone:			n System		Zone: B3
Past Use:	Proposed Use:		Permit Fee:	Cost of Work:	CEO District	
Commercial	Commercial Ir	stall fire suppression	\$129.00	\$12,000.0	00 1	
	room	Oth floor computer	FIRE DEPT:	Denied U	ispection: Ise Group: U UFPA	Туре: <b>Гі́не</b>
Install a fire suppression			Signature:	TIVITIES DISTRI	ignature: CT (P.A.D.)	7
	Date Applied For:		PEDESTRIAN AC Action: Appr Signature:	TIVITIES DISTRI	CT (P.A.D.)	Denied
			PEDESTRIAN AC Action: Appr Signature: Zonin	g Approval	CT (P.A.D.) ved w/Conditions [ Date:	
Permit Taken By: dmartin 1. This permit applica	Date Applied For:	Special Zone or Revie	PEDESTRIAN AC Action: Appr Signature: Zonin	g Approval	CT (P.A.D.) ved w/Conditions [ Date: Historic P	reservation
Permit Taken By: dmartin 1. This permit applica Applicant(s) from r Federal Rules.	Date Applied For: 12/30/2005 tion does not preclude the neeting applicable State and o not include plumbing,	Special Zone or Revi	PEDESTRIAN AC Action: Appr Signature: Zonin ews Zon Varian	g Approval	CT (P.A.D.) ved w/Conditions [ Date: Historic P Not in Dis	reservation
<ul> <li>Permit Taken By: dmartin</li> <li>1. This permit applica Applicant(s) from r Federal Rules.</li> <li>2. Building permits de septic or electrical v</li> <li>3. Building permits ar</li> </ul>	Date Applied For: 12/30/2005 tion does not preclude the neeting applicable State and o not include plumbing,	Special Zone or Revie	PEDESTRIAN AC Action: Appr Signature: Zonin ews Zon Variar Misce	g Approval	CT (P.A.D.) ved w/Conditions [ Date: Historic P Not in Dis	reservation strict & Landmark Require Review
<ul> <li>Permit Taken By: dmartin</li> <li>1. This permit applica Applicant(s) from r Federal Rules.</li> <li>2. Building permits da septic or electrical v</li> <li>3. Building permits ar within six (6) month</li> </ul>	Date Applied For: 12/30/2005 tion does not preclude the neeting applicable State and o not include plumbing, work. e void if work is not started hs of the date of issuance. may invalidate a building	Special Zone or Revie	PEDESTRIAN AC Action: Appr Signature: Zonin ews Zon Varian Misce	g Approval ning Appeal nce llaneous	CT (P.A.D.) Ved w/Conditions [ Date: Historic P Not in Dis Does Not	reservation strict & Landmark Require Review Review
<ul> <li>Permit Taken By: dmartin</li> <li>1. This permit applica Applicant(s) from r Federal Rules.</li> <li>2. Building permits do septic or electrical s</li> <li>3. Building permits ar within six (6) month False information r</li> </ul>	Date Applied For: 12/30/2005 tion does not preclude the neeting applicable State and o not include plumbing, work. e void if work is not started hs of the date of issuance. may invalidate a building	Special Zone or Revie Shoreland Wetland Flood Zone	PEDESTRIAN AC Action: Appr Signature: Zonin ews Zon Varian Misce	retation	CT (P.A.D.) Ved w/Conditions [ Date: Historic P Not in Dis Does Not Requires 1 Approved	reservation strict & Landmark Require Review Review
<ul> <li>Permit Taken By: dmartin</li> <li>1. This permit applica Applicant(s) from n Federal Rules.</li> <li>2. Building permits do septic or electrical of 3. Building permits ar within six (6) month False information n</li> </ul>	Date Applied For: 12/30/2005 tion does not preclude the neeting applicable State and o not include plumbing, work. e void if work is not started hs of the date of issuance. may invalidate a building	Special Zone or Revie Shoreland Wetland Flood Zone Subdivision	PEDESTRIAN AC Action: Appr Signature: Zonin ews Zon Varian Misce Condi Interpr Appro	Approval Approv	CT (P.A.D.) Ved w/Conditions [ Date: Historic P Not in Dis Does Not Requires 1 Approved	reservation strict & Landmark Require Review Review

#### CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



# SURCEASE DE LA COMPANY

## **General Building Permit Application**

If you or the property owner awes real estate or personal property taxes  $\alpha$  user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction:	BRTHAND (9TH FLOOR)	iumizut 59.
Total Square Footage of Proposed Structure		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 012 A A K 003	. Joseph Menard Finand Murry W. JK	Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone:	Cost Of Work: \$ 12,000.00 Fee: \$ 129.00 Cof O Fee: \$ 1/A
Current Specific use: Proposed Specific use: Project description: IN THE 9	THE SUPPRESSION SUS	JEM SOM
Contractor's name, address & telephone:	SIMPLEX GEINNELL, 20 WESTBROOK, ME 04	THOMAS DR

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit

Signature of applicant:	Brian	Innaan	Date: 12-14-05
	9.00 10		

This is not a permit; you may not commence ANY work until the permit is issued.

City of Portland, Maine - Build 389 Congress Street, 04101 Tel: (2	•	7) 874-8716	Permit <i>No :</i> 05-1844	<b>Date Applied For:</b> 12130/2005	CBL: 032 K012001	
Location of Construction:	Owner Name:	· 	Owner Address:		Phone:	
1 Monument Sq	Finard Murray W Tr	1	One Monument Sq			
Business Name:	ContractorName:	ontractor Name: Contractor Address:				
	Simplex/ Grinnell	Simplex / Grinnell 20 Thomas Drive Westbrook (A				
Lessee/Buyer's Name	Phone:		Permit Type:		-	
			Fire Suppression S	System		
Proposed Use:		Propose	d Project Description:			
Commercial Install fire suppression sy	ys <b>tem in the</b> 9th <b>fluor</b> comp	uter Install	a fire suppressions	system in the 9th floo	r computer <b>room</b> .	
room						
Dept: Zoning Status: Ap	pproved	<b>Reviewer:</b>	Ann Machado	Approval Da	te: 01/03/2006	
Note:					Ok to Issue: 🗹	
Dept: Building Status: A Note:	pproved	Reviewer:	Tammy Munson	Approval Da	te: 01/13/2006 Ok to Issue: 🗆	
Dept: Fire Status: Ap Note:	pproved	Reviewer:	Cptn Greg Cass	 Approval Da	te: 01/03/2056 Ok to Issue: 🗌	



## Fire & Security

20 Thomas	Drive
Westbrook,	ME 04092
P. 207-842-	6440 F. 207-842-6439

## **SimplexGrinnell**

## DRAWING TRANSMITTAL LETTER

TO: PLANNING DEPT. 389 CONGRESS STREET

Date: DEC 13,05 - NUGENT Attention: MICA JAE1 CONTRACT \_ PIERCE ATWOOD 50 ONE MONUMENT PORTLAND, ME

			SG		ACT	NUM	MBE	R		
			ENCLOSURES ARE FOR ACTION AS INDICATED BY (X) 915	915016401						
Drawing Number	NO. OF COPIES	REVISION NO.	DESCRIPTION or DRAWING TITLE	APPROVAL	PRELIMINARY	INFORMATION	CONSTRUCTION	RECORDS		
1051	1		PLAN	1	1			1		
	1		PLAN CALC'J	1	'			/		
	1		SCOPE of WORK W/ SYSTEM PARTS	1				/		

#### REMARKS

NOTE: RETURN ( ) COPIES OF DRAWINGS MARKED WITH YOUR STAMP OF ACCEPTANCE AND/OR YOUR COMMENTS

G4327B3

tyco

Fire & Security

SimplexGrinnell

SimplexGrinnell LP 20 Thomas Drive Westbrook, Maine 04092

Tele:207-842-6440 Fax: 207-842-6439 24hr: 888-909-4377 www.simplexgrinnell.com

## PIERCE ATWOOD

## FM-200 SYSTEM

## 9<sup>TH</sup> FLR., SERVER ROOM

Owner: Location: Protected Space: System Type: Manufacturer: System Design:	Comput Total flo Kidde-F Temper Minimur Actual d Actual d KID 3.02 EX-4674	r I.S. Operation er room; 2599 cu-ft. oding, automatic 24VD enwal, Inc. ature: controlled, @ 66- m design concentration: lesign concentration: 6. lesign concentration: 9. 2 FM-200 Flow calculati 4 AND FM: PI 3009421	6.25% 511% for main room 600% raised floor ion, software (UL:
Enclosure Integrity		ent or future cable pene re integrity.	etrations must be sealed to maintain
Alarms:		includes 2 local horn-st	robe alarm indicators
Parts:	1 88 1 1 1 1 1 1 2 1 2 3 4 1	90-100125-001- 90-190000-001- 283904 - 235317- 486536, 48650001- 870652- 90-194015-238- 90-194023-144 06-231865-739- 84-232000-102- 71-550000-001- 70-510000-001- 70-501000-001- 84-100007-001-	125lb. FM-200 cylinder lbs., FM-200 agent 1 ½" Adaptor cylinder strap 3PDT Pressure Switch 24 VDC control head Lever operated control head 1" nozzle, 180 deg ½" nozzle, 360 deg warning sign Scorpio control panel photoelectric smoke detector ionization smoke detector 2-wire detector base Pull station
	1 2 2 1	296105- 75-000018-002- 90-fm200M-011- 06-235793-001-	abort station w/ backbox 15/75 cd horn-strobe alarm Systems owner manual Kidde Scorpio Manual

Pourport Poquinition	Farm
	AP FAX: (978) 731-7756
SimplexGrinnell	(978) 731-2500
Security	Westminster, MA 01441
Fire & Security	50 Technology Drive
tyco .	SimplexGrinnell LP
Dec.13. 2000 12:39PM SIMPLEXGRINNELL	NU.3321 F.

#### Payment Requisition Form

This form is to be used <u>only</u> when payment is required and an invoice is <u>not</u> available ( i.e. permits, drawings, bids). If an involce is available please go through the standard payment procedures for submitting invoices to accounts payable.

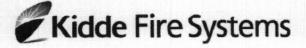
Please provide a detailed reason for payment and attach any available back up when submitting request.

Please supply vendor number. If not available, send an email to sg.apinquiry@tycoint.com. Please fill in "Request for vendor number" in the subject line. Reference the full remit-to address in the body of the email. You will receive either a response with the current vendor number or information on how to have the new vendor setup.

This payment will be made per system payment terms. Exceptions will require additional approval. (RM < \$25k or VP > \$25k)

Note: Signature cards must be on file with Accounts Payable for all approvers stating their approved dollar limit.

Request Date:				-		Cost Dis	tributi	on	
			5		PO Num				\$ Amt
Requestor:			E E	#1	Contraction of the second		/	1	
Email Address:	Inemer and a contraction of the			#2		]	/		
Vendor Number:	Q55712		Purchase Order	*3 # #		$\vee$	·		
Pay-to Vendor Name:	City Of Portland					Ş	ubtota	\$	-
Remit-to Address Line 1			T		Proj Num	Ctrl	Dist		\$ Amt
Remit-to Address Line 2				#1	915016401	12	147	\$	174.00
City / State / Zip:	Portland, ME 04101		Direct Job Cost	#2			1		
			- 13	#3					
Payment Amoun	t: \$ 174.00		Ĩ.	#4					And Marketing
			0	#5	STRAKE REPORT			1	
Need by Date	terror and the second se					S	ubtotal	\$	174.00
	Checks will be cut on Tue	sdays & Thursdays	B		Acct Num	Dept	Dist		\$ Amt
Reason for Payment:				#1					
Permit Fees for Plerce Alwood			N N	#2	The second				
copiess for comorrow morning			ĮĘ	#3					
L			Overhead Exp	#4 #5			-	-	
Delivery Method:	U.S. Mail	FEDEX		#0		<u>s</u>	btotal	•	
Deliver to District	0.0. 1101 -	TEVENE	-			_	Total		174.00
District Number:	147								
FedEx Contact:	Jennifer Hennebury				Cost Di	stributio	on in b	alan	ce.
	Permanent / 1 Per District				7 Lean Seal Sheets				and parameters
Deliver to Vendor				A	dditional App	rovais (v	when a	appli	cable)
Vendor Name:									
Contact: Mail-to Address Line 1:				t Na	ne:				
Mail-to Address Line 1:			Title	•					
City / State / Zip:			- Siar	atun	<b>.</b> .				
Telephone:			Date						
Approver (Print Name):	Jennifer Hennebury		] Prin	t Nar	ne:				
Title:	Senior Secretary		Title	:					
Signature:	2 il CA	the set	1 0	-					
Date:	12/13/05	Accession	Date						
		\	Date					24701.32	Salar Constants



40

#### **Simplex Grinnell**

20 Thomas Dr Westbrook, ME 04092 United States Phone: 207-799-4360 ECS Series - KID3.02 UL: EX4674 FM: PI 3009421 Project: I.S. Room File Name: C:\Program Files\Kidde-Fenwal\ECS Series KID302\Projects\pierce-atwood server-raised flr.FLC Calculation Date/Time: Tuesday, November 15, 2005, 3:35:16 PM

### **Consolidated Report**

#### **Customer Information**

Company Name:	Pierce Atwood
Address:	<b>One Monument Square</b>
	Portland, Me. 04101

Phone:	207-791-1177
Contact:	Norman Houle
Title:	Director I.T.

#### **Project Data**

Project Name:	I.S. Room
Designer:	BH
Number:	
Account:	
Location:	9th Fir
Description:	125 lb. Kidde-Fenwal FM-200 Clean Agent System

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## Consolidated Report Enclosure Information

Elevation:	0 ft (relative to sea level)
Atmospheric Correction Factor	1
Enclosure Number:	1
Name:	Server Room
Enclosure Temperature	
Minimum:	66 F
Maximum:	74 F
Maximum Concentration: Design Concentration	6.621 %
Adjusted:	6.511 %
Minimum:	6.250 %
Minimum Agent Required:	69.8 lbs
Width:	0.0 ft
Length:	0.0 ft
Height:	0.0 ft
Volume:	0.0 cubic ft
Non-permeable:	0.0 cubic ft
Total Volume:	2291.0 cubic ft
Adjusted Agent Required:	73.0 lbs
Number of Nozzles:	1

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## Consolidated Report Enclosure Information

Elevation:	0 ft (relative to sea level)	
Atmospheric Correction Factor:	1	
Enclosure Number:	2	
Name:	raised floor	
Enclosure Temperature		
Minimum:	66 F	
Maximum:	72 F	
Maximum Concentration:	9.742 %	
Design Concentration		
Adjusted:	9.600 %	
Minimum:	6.250 %	
Minimum Agent Required:	9.4 lbs	
Width:	0.0 ft	
Length:	0.0 ft	
Height:	0.0 ft	
Volume:	0.0 cubic ft	
Non-permeable:	0.0 cubic ft	
Total Volume:	308.0 cubic ft	
Adjusted Agent Required:	15.0 lbs	
Number of Nozzles:	1	

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## Consolidated Report Agent Information

Agent: FM-200 / Propellant N2 (FM-200 is a Trademark of Great Lakes Chemical Corp.)

Adjusted Agent Required:	88.0 lbs
<b>Container Name:</b>	125 lb Cylinder
Container Part Number:	90-100125-001
Number of Main Containers:	1
Number of Reserve Containers:	0
Manifold:	No Manifold
Pipe Taka Off Direction:	Horizontal
Agent Per Container:	88.0 lbs
Fill Density:	49.2 lbs / cubic ft
Container Empty Weight	96.0 lbs
Weight, All Containers + Agent:	184.0 lbs
Floor Area Per Container:	0.89 square ft
Floor Loading Per Container:	207 lbs / square ft

#### Part 4 - Pipe Pipe Description Start End Туре Diameter Length Elevation Main Cyl. X 1 0 1 1-1/2 in 2<u>.</u>99 fl 2.99 ft 2 Adapter 1 1-1/2 in 0.22 ft 0.00 ft 2 3 0.50 ft 1-1/4 in 0.00ft Pipe **40**T 3 Pipe 4 **40T** 1-1/4 in 5.16 ft 5.16 ft 4 5 1-1/4 in Pipe **40T** 3.50 ft 0.00ft Pipe 5 6 0.00 ft **40T** 1 in 2.00ft Pipe/E1-N1 7 6 **40T** 1 in 0.33 A -0.33ft 5 8 1/2 in 0.00ft Pipe **40T** 0.33ft Pipe 8 9 **40T** 1/2 in fi00.8 -8.00 ft Pipe 9 10 4QT 1/2 in 8.00 ft 0.00 ft Pipe/E2-N1 1/2 in 10 40T 0.16 ft -0.16 ft 11

#### Pipe Network

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### **Consolidated Report**

### Part 2 - Equivalent Length

Start	End	90	45	Thru	Side	Union	Other	Added	Total
0	1	0	0	0	0	0		0.00 ft	50.0 ft
1	2	0	0	0	0	0	1-1/2in VOA	0.00 ft	11.8 ft
2	3	0	0	0	0	0		0.00 ft	0.5 ft
3	4	1	0	0	0	0		0.00 ft	8.9 ft
4	5	1	0	0	0	0		0.00 ft	7.2 ft
5	6	0	0	1	0	0		0.00 ft	3.8 ft
6	7	1	0	0	0	0		0.00 ft	3.1 ft
5	8	0	0	0	1	0		0.00 ft	3.7 ft
8	9	1	0	0	0	0		0.00 ft	9.7 ft
9	10	1	0	0	0	0		0.00 ft	9.7 ft
10	11	1	0	0	0	0		0.00 ft	1.9 ft

### Part 3 - Nozzles

Start	End	Flow	Name	Size	Туре	Nozzle Area
0	1	88.0 lbs				
1	2	88.0 lbs				
2	3	88.0 lbs				
3	4	88.0 lbs				
4	5	88.0 lbs				
5	6	73.0 lbs				
6	7	73.0 lbs	E1-N1	1 in	180°	0.3623 square in
5	8	15.0 lbs				
8	9	15.0 lbs				
9	10	15.0 lbs				
10	11	15.0 lbs	E2-N1	1/2 in	360°	0.1303 square in

**Parts Information** 

Total Agent Required: 88.0 lbs Container Name: 125 lb Cylinder (Part: 90-100125-001) Number Of Containers: 1

Nozzle	Туре	Nozzle Area	Part Number	
E1-N1	180°	0.3623 square in	90-194015-238	

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			•	
Nozzle	Туре	Nozzie Area	Part Number	
E2-N1	360°	0.1303 square in	90-194023-144	
Pipe:	Туре	Diameter	Length	
	40T	1/2 in	16.49ft	
	40T	1 in	2.33 ft	
	40T	1-114 in	9.16 ft	

**Consolidated Report** 

'Other' Items: 1 - 1-1/2 in. Valve Outlet Adapter (Part: 283904)

List of 90 degree elbows: 1 - 1 in 2 - 1-1/4 in 3 - 1/2 in

List of Tees: 2 - 1-1/4 in

Kidde Fire Systems

#### **System Acceptance**

Perce	Discharge Time nt Agent In Pipe Before First Tee	e: 17.6%	nds	
	<b>closure</b> Numbe Enclosure Name	-	oom	
Minimum Desig Adjusted Desig Predicte Maximum Expected Age	n Concentration Concentration	n: 6.511% n: 6. <b>467%</b>	At 74 F)	
Nozzle	Min <del>i</del> mum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzie Pressure (Average)

Nozzle	Required	Required	Delivered	(Average)	
E1-N1	69.8 lbs	73.0lbs	72.4 lbs	159 psig	

Enclosure Number: 2 Enclosure Name: raised floor

Minimum Design Concentration: 6.250%

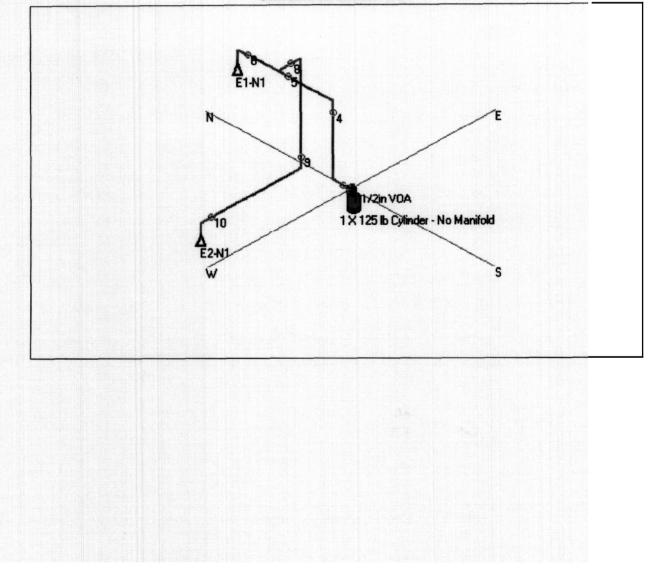
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#### **Consolidated Report**

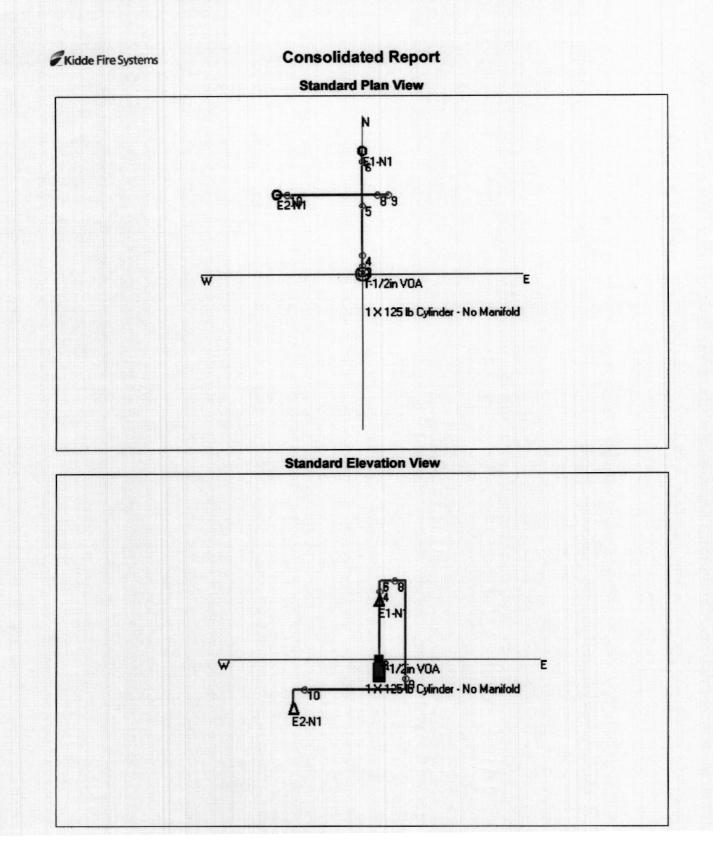
Adjusted Design Concentration: 9.600% Predicted Concentration: 9.993% Maximum Expected Agent Concentration: 10.106% (At 72 F)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)	
E2-N1	9.4 lbs	15.0 lbs	15.6 lbs	133 psig	

#### Standard Isometric View



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