

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

## PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 050479

**PERMIT ISSUED**

MAY 18 2005

**CITY OF PORTLAND**

This is to certify that Middle Street Office Tower Complex / City Hall  
 has permission to Install a fire suppression system  
 AT 100 Middle St City of Portland 029 E026001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is laid or closed-in.  
**HEAR NOTICE IS REQUIRED.**

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

**OTHER REQUIRED APPROVALS**

Fire Dept. Jay Kelley P.F.D. 4/29/05

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name \_\_\_\_\_

*[Signature]*  
 5/10/05  
 Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

**PERMIT ISSUED**

Permit No: 05-0479	Issue Date: MAY 18 2005	CBL: E02600
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Location of Construction: 100 Middle St	Owner Name: Middle Street Office Tower B	Owner Address: 100 Middle St	Phone: CITY OF PORTLAND
Business Name:	Contractor Name: Simplex / Grinnell	Contractor Address: 20 Thomas Drive Westbrook	Phone: 2078426440
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone:

Past Use: Commercial	Proposed Use: Commercial install a fire suppression system	Permit Fee: \$111.00	Cost of Work: \$10,000.00	CEO District: 1
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Proposed Project Description: Install a fire suppression system	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: B/U Type: Alarm
	Signature: <i>Jay Kelley P.F.D. 4/29/05</i>	Signature: <i>[Handwritten Signature]</i>

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Signature: _____ Date: _____	

Permit Taken By: dmartin	Date Applied For: 04/27/2005	<b>Zoning Approval</b>	
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<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</li> </ol>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
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**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

**City of Portland, Maine - Building or Use Permit**

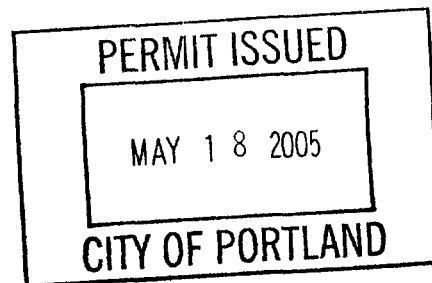
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-0479	Date Applied For: 04/27/2005	CBL: 029 E026001
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<b>Location of Construction:</b> 100 Middle St	<b>Owner Name:</b> Middle Street Office Tower B	<b>Owner Address:</b> 100 Middle St	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Simplex / Grinnell	<b>Contractor Address:</b> 20 Thomas Drive Westbrook	<b>Phone</b> (207) 842-6440
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Fire Alarm System	

<b>Proposed Use:</b> Commercial install a fire suppression system	<b>Proposed Project Description:</b> Install a fire suppression system
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Tammy Munson	<b>Approval Date:</b> 05/11/2005
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Building	<b>Status:</b> Approved	<b>Reviewer:</b> Tammy Munson	<b>Approval Date:</b> 05/11/2005
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Fire	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Jay Kelley	<b>Approval Date:</b> 04/29/2005
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) Install to manufacturers recomendations, and UL listed			



# All Purpose Building Permit Application

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

Location/Address of Construction: <u>100 MIDDLE ST.</u>		
Total Square Footage of Proposed Structure		Square Footage of Lot
<b>Tax Assessor's Chart, Block &amp; Lot</b> Chart# <u>29</u> Block# <u>E</u> Lot# <u>026</u>		Owner: Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>GREG TOBIAS</u> <u>30 THOMAS DR.</u> <u>WESTBROOK, ME 207-671-8726</u>	Cost Of Work: \$ <u>10,000.00</u> Fee: \$
Current use: <u>OFFICE SPACE</u> If the location is currently vacant, what was prior use: _____ Approximately how long has it been vacant: <u>N/A</u> Proposed use: <u>COMPUTER SERVER ROOM</u> Project description: <u>INSTALLATION OF FIRE SUPPRESSION SYS. (FM-200)</u>		
Contractor's name, address & telephone: Who should we contact when the permit is ready: <u>SIMPLEX GRINNELL</u> Mailing address: <u>30 THOMAS DR.</u> <u>WESTBROOK, ME 04092</u> We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. <b>PHONE:</b> <u>207-842-6440</u> <span style="float: right;"><u>Brian Hoffman</u></span>		

**IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.**

*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: <u>Greg Tobias</u>	Date: <u>27 APR 05</u>
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**This is NOT a permit, you may not commence ANY work until the permit is issued.  
 If you are in a Historic District you may be subject to additional permitting and fees with the  
 Planning Department on the 4<sup>th</sup> floor of City Hall**

✓ # 1417



Fire & Security

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

SimplexGrinnell

DRAWING TRANSMITTAL LETTER

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attention: PLANNING - CITY OF PORTLAND Date: APRIL 27, 2005  
CONTRACT BERNSTEIN SHUR SAWYER & NELSEN  
100 MIDDLE ST.  
PORTLAND, ME. 04104

MAILED   
BY HAND

ENCLOSURES ARE FOR ACTION AS INDICATED BY (X)

SG CONTRACT NUMBER

909154901

Drawing Number	NO. OF COPIES	REVISION NO.	DESCRIPTION or DRAWING TITLE	APPROVAL	PRELIMINARY	INFORMATION	CONSTRUCTION	RECORDS
1 of 1	1		PLAN	X				X
	1		SCOPE OF WORK	X				X
	1		CALCULATIONS	X				X
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME</p> <p style="text-align: center;">APR 27 2005</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">RECEIVED</p> </div>								

REMARKS KIDDE-FENVAL FM-200 SYSTEM FOR I.S. ROOM ON  
3<sup>rd</sup> FLR.

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

**tyco**

Fire &  
Security

**SimplexGrinnell**

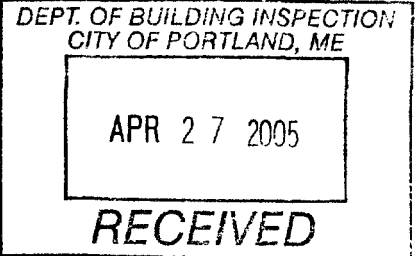
SimplexGrinnell LP  
20 Thomas Drive  
Westbrook, ME 04092

Tele: 207-842-6440  
Fax: 207-842-6439  
www.simplexgrinnell.com

**BERNSTEIN, SHUR, SAWYER & NELSON**

**FM-200 SYSTEM**

**3<sup>RD</sup> FLR., SERVER ROOM**



Owner: Bernstein, Shur, Sawyer & Nelson  
Location: 3<sup>rd</sup> Floor I.S. Operation  
Protected Space: Computer room; 1965 cu-ft.  
System Type: Total flooding, automatic 24VDC electric per NFPA 2001 & 72  
Manufacturer: Kidde-Fenwal, Inc.  
System Design: Temperature: controlled, @ 68-78 degrees F.  
Minimum design concentration: 6.25%  
Actual design concentration: 6.77% for main room  
KID 3.02 FM-200 Flow calculation, software (UL:  
EX-4674 AND FM: PI 3009421

Enclosure Integrity: All present or future cable penetrations must be sealed to maintain enclosure integrity.

Alarms: System includes 2 local horn-strobe alarm indicators

Parts:	1	90-100070-001-	70lb. FM-200 cylinder
	65	90-190000-001-	lbs., FM-200 agent
	1	283898 -	1 1/2" flex bend
	1	283934-	cylinder strap
	1	486536,	3PDT Pressure Switch
	1	48650001-	24 VDC control head
	1	870652-	Lever operated control head
	1	90-194025-257-	1" nozzle, 360 deg
	2	06-231865-739-	warning sign
	1	84-232000-102-	Scorpio control panel
	1	71-550000-001-	photoelectric smoke detector
	1	70-510000-001-	ionization smoke detector
	2	70-501000-001-	2-wire detector base
	1	84-100007-001-	Pull station
	1	296105-	abort station w/ backbox
	2	75-000018-002-	15/75 cd horn-strobe alarm
	2	90-fm200M-011-	Systems owner manual
	1	06-235793-001-	Kidde Scorpio Manual



**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\BSSN.FLC  
Calculation Date/Time: Tuesday, April 19, 2005, 2:13:52 PM

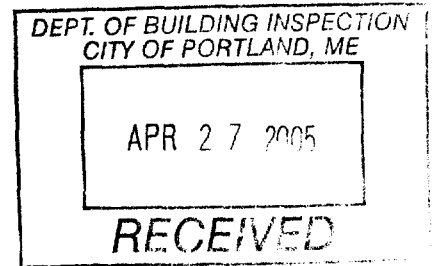
**Consolidated Report**

**Customer Information**

Company Name: Bernstein Shur Sawyer Nelson  
Address: 100 Middle St  
PO Box 9729  
Portland, Me. 04104  
  
Phone: 207-228-7242  
Contact: Ron Palmer  
Title: I.S. Director

**Project Data**

Project Name: I.S. Room  
Designer: BH  
Number:  
Account:  
Location: 3rd Floor  
Description:

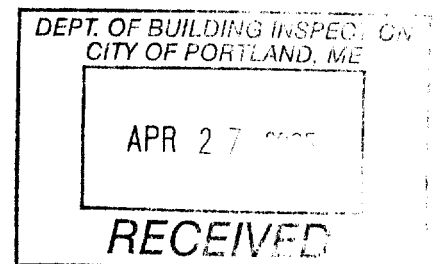


## Consolidated Report Enclosure Information

Elevation: 0 ft (relative to sea level)  
Atmospheric Correction Factor: 1

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Enclosure Number: 1  
Name: I.S. room  
Enclosure Temperature...  
Minimum: 68 F  
Maximum: 78 F  
Maximum Concentration: 6.909 %  
Design Concentration...  
Adjusted: 6.777 %  
Minimum: 6.250 %  
Minimum Agent Required: 59.7 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: 1965.0 cubic ft  
Adjusted Agent Required: 65.0 lbs  
Number of Nozzles: 1



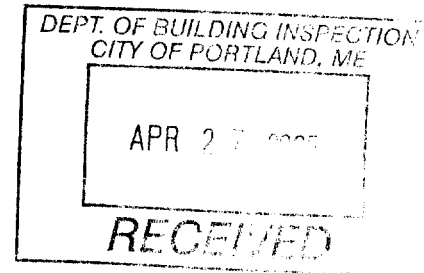


## Consolidated Report Agent Information

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

Adjusted Agent Required: 65.0 lbs  
 Container Name: 70 lb Cylinder  
 Container Part Number: 90-100070-001  
 Number of Main Containers: 1  
 Number of Reserve Containers: 0  
 Manifold: No Manifold

Pipe Take Off Direction: Horizontal  
 Agent Per Container: 65.0 lbs  
 Fill Density: 65.0 lbs / cubic ft  
 Container Empty Weight: 52.0 lbs  
 Weight, All Containers + Agent: 117.0 lbs  
 Floor Area Per Container: 0.44 square ft  
 Floor Loading Per Container: 266 lbs / square ft



### Pipe Network

Part 1 - Pipe			Pipe			
Description	Start	End	Type	Diameter	Length	Elevation
Main Cyl. X 1	0	1		1-1/2 in	2.99 ft	2.99 ft
Flex Hose	1	2		1-1/2 in	2.00 ft	1.22 ft
Pipe	2	3	40T	1 in	5.16 ft	5.16 ft
Pipe	3	4	40T	1 in	4.54 ft	0.00 ft
Pipe	4	5	40T	1 in	7.00 ft	0.00 ft
Pipe/E1-N1	5	6	40T	1 in	0.66 ft	-0.66 ft

### 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	1	0	0	0	0	1-1/2in Flx 90	0.00 ft	15.0 ft
2	3	0	0	0	0	0		0.00 ft	5.2 ft

**Consolidated Report**

**Part 2 - Equivalent Length**

Start	End	90	45	Thru	Side Union	Other	Added	Total
3	4	1	0	0	0	0	0.00 ft	7.3 ft
4	5	1	0	0	0	0	0.00 ft	9.8 ft
5	6	1	0	0	0	0	0.00 ft	3.5 ft

**Part 3 - Nozzles**

Start	End	Flow	Name	Size	Type	Nozzle Area
0	1	65.0 lbs				
1	2	65.0 lbs				
2	3	65.0 lbs				
3	4	65.0 lbs				
4	5	65.0 lbs				
5	6	65.0 lbs	E1-N1	1 in	360°	0.4150 square in

**Parts Information**

Total Agent Required: 65.0 lbs  
 Container Name: 70 lb Cylinder (Part: 90-100070-001)  
 Number Of Containers: 1

Nozzle	Type	Nozzle Area	Part Number
E1-N1	360°	0.4150 square in	90-194025-257

Pipe:	Type	Diameter	Length
	40T	1 in	17.36 ft

**'Other' Items:**

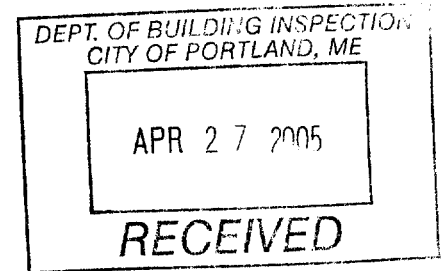
1 - 1-1/2 in. Flex Hose - 90° Bend (Part: 283898)

**List of 90 degree elbows:**

3 - 1 in

**System Acceptance**

System Discharge Time: 9.5 seconds  
 Percent Agent In Pipe: 21.0%  
 Percent Agent Before First Tee: 0.0%



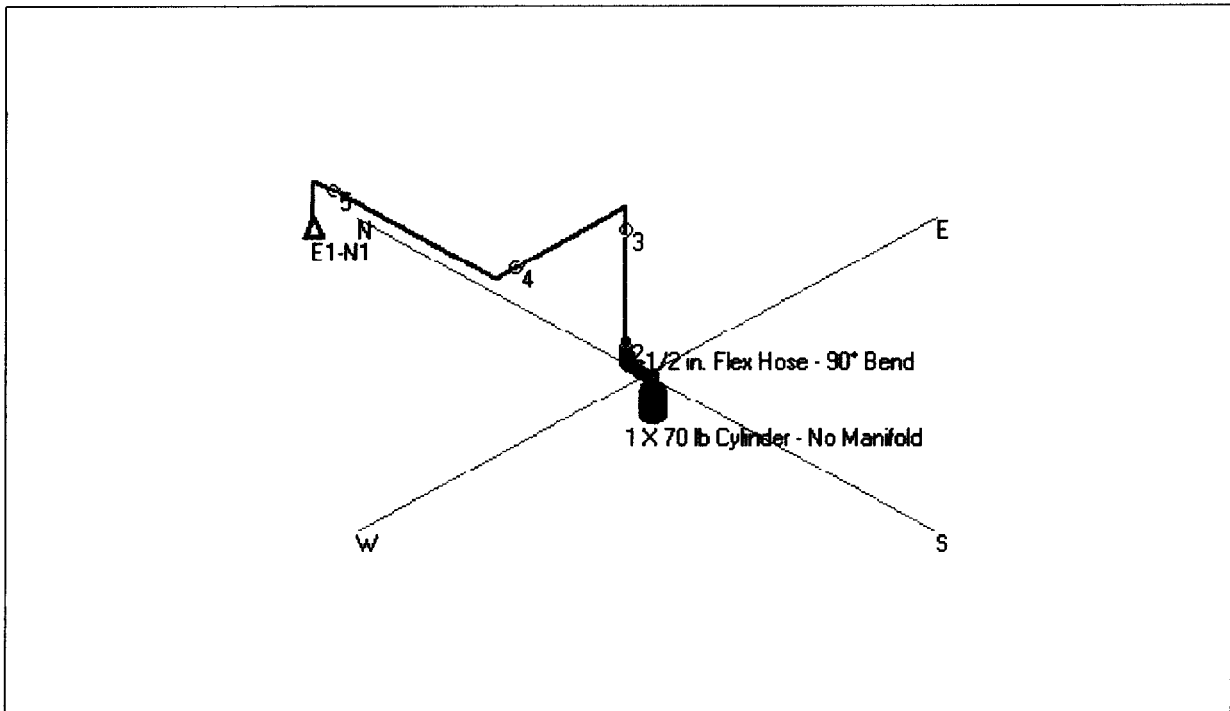
### Consolidated Report

Enclosure Number: 1  
 Enclosure Name: I.S. room

Minimum Design Concentration: 6.250%  
 Adjusted Design Concentration: 6.777%  
 Predicted Concentration: 6.777%  
 Maximum Expected Agent Concentration: 6.909% (At 78 F)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)
E1-N1	59.7 lbs	65.0 lbs	65.0 lbs	127 psig

#### Standard Isometric View



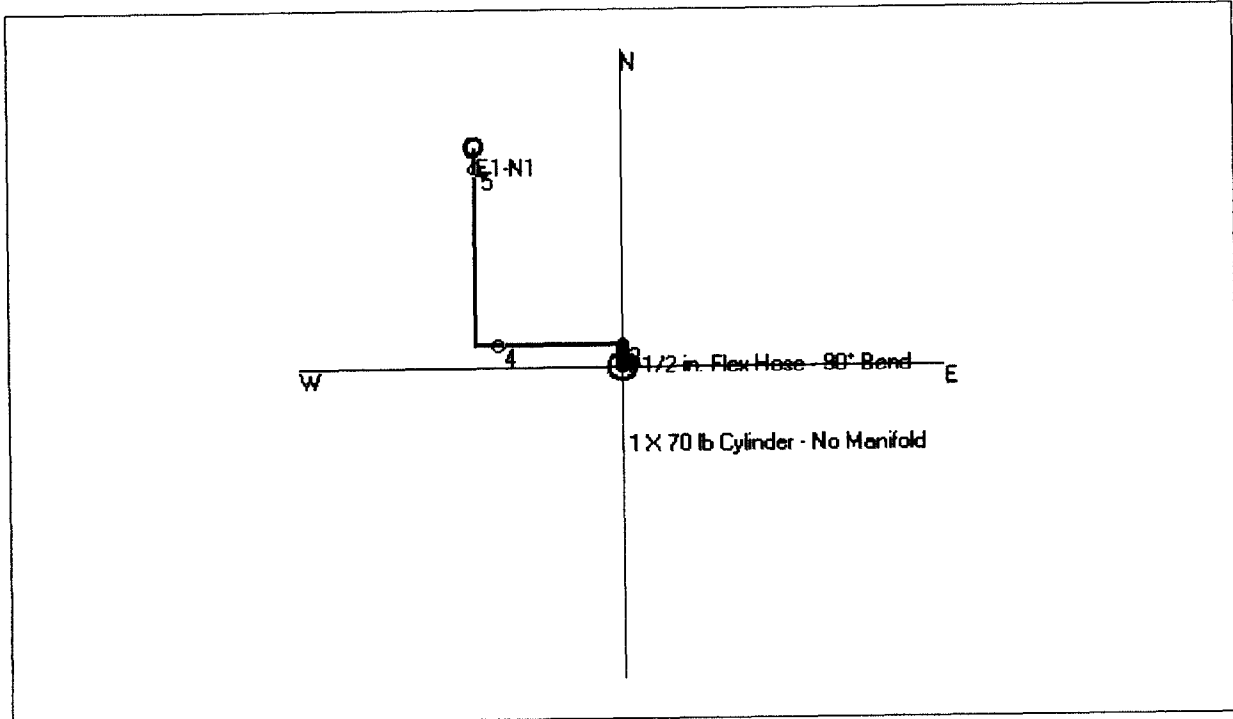
DEPT. OF BUILDING INSPECTION  
 CITY OF PORTLAND, ME

APR 27 2005

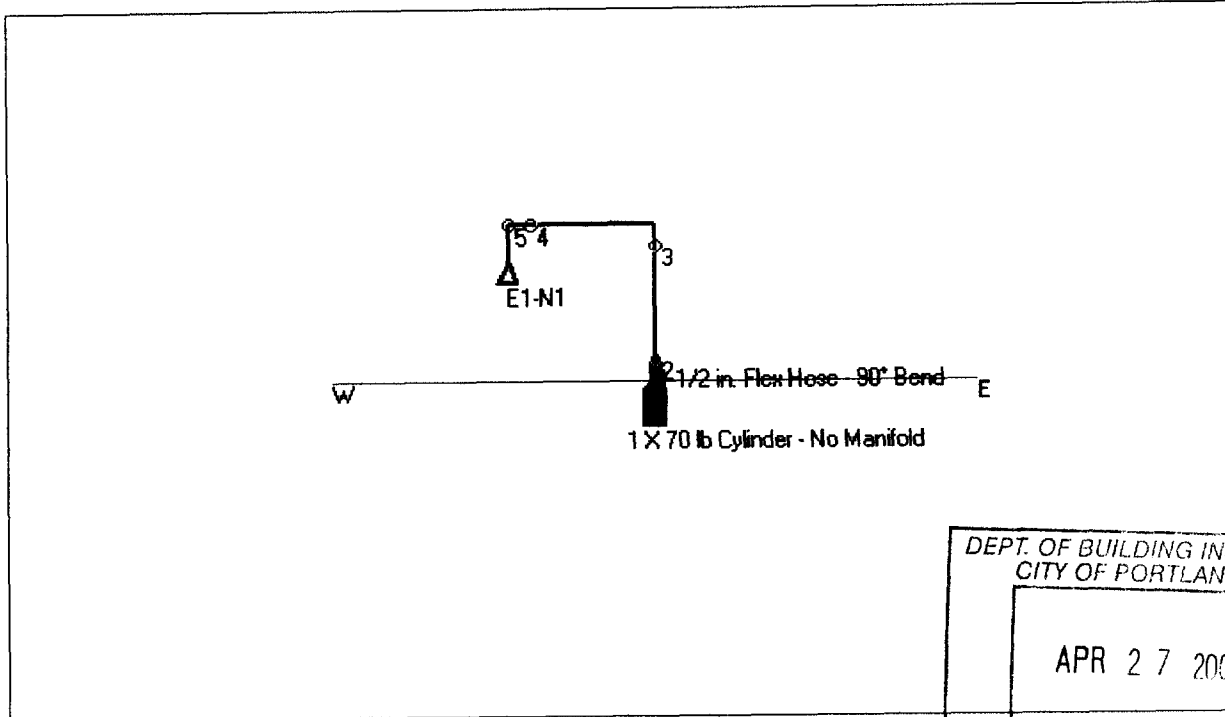
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# Consolidated Report

## Standard Plan View



## Standard Elevation View



DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME  
APR 27 2005  
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**CITY OF PORTLAND, MAINE**  
**Department of Building Inspections**

20

Received from \_\_\_\_\_

Location of Work \_\_\_\_\_

Cost of Construction \$ \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_

Building (IL) \_\_\_ Plumbing (I5) \_\_\_ Electrical (I2) \_\_\_ Site Plan (U2) \_\_\_

Other \_\_\_\_\_

CBL: \_\_\_\_\_

Check #: \_\_\_\_\_

**Total Collected \$** \_\_\_\_\_

## **THIS IS NOT A PERMIT**

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy  
YELLOW - Office Copy  
PINK - Permit Copy