DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

Please Read Application And	B	UIL DING INSPECTION	
Notes, If Any, Attached		PERIVI	Permit Number: 041014
his is to certify th	at Three Forty Associates Llc /	erstate Fire Protection	AUG 1 3 2004

has permission to install fire suppression system

AT 338 Cumberland Ave

provided that the person or persons of the provisions of the Statutes of the construction, maintenance and this department.

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

rm or procession a septing this permit shall comply with all line and or the Organices of the City of Portland regulating e of buildings and suctures, and of the application on file in

037 F009001

en and ven permer on procedore this ilding or art there is erwise osed-in 4 UR NO QUIRED.

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

OTHER, REQUIRED APPROVALS

Fire Dept. Mmy

Appeal Board

Health Dept.

Other _

Department Name

Ca()(

Director - Building & Inspection Services

Cit	ty of Portland, Main	e - Building o	r Use	Permi	t Application	n F	Permit No:	Issue Date	::	CBL:	
	Congress Street, 0410	0			* *		04-1014			037 F00	09001
Location of Construction: Owner Name:				Owner Address:			Phone:				
338 Cumberland Ave Three Forty A			ssociate	es Llc	120	Exchange St					
Business Name: Contractor Name Interstate Fire		e:	-	Con	tractor Address:			Phone			
		Protect	ion	PO	Box 187 Aug	usta		80064998	881		
Less	see/Buyer's Name	Phone:	_			Pern	nit Type:				Zone:
		1			ĺ	Fin	re Suppression	System			13-5
Past	t Use:	Propose	d Use:			Per	rmit Fee: Cost of Work:		k:	CEO District:	7
l	mmercial space	l -		ace w/f	ace w/fire		\$228.00	\$23,000.00		1	
	1		ssion sy			FIR				CTION:	<u> </u>
			·				[_			roup: /	Туре:
							L	Denied			,4
										FIXE S	1216 85
Pro	posed Project Description:					┪				06	1: 1
	tall fire suppression syster	n				Sign	nature:	(Lyms	Signatu	ire:	ich
	11						ESTRIAN ACT	IVITIES DIST		(P.A.D.)	
						A ati	ion. 🗆 🐧 ====	und 🗔 Am			
						Acti	ion: Appro	veu Ap	proved w	/Conditions	Denied
						Sign	nature:			Date:	
Peri	nit Taken By:	Date Applied For	:				Zoning	Approva	al		
jo	dinea	07/20/2004) PP		/	
1.	This permit application of	does not preclude	e the	Spe	cial Zone or Rev	ews	Zoni	ng Appeal		Historic Prese	ervation
	Applicant(s) from meeting	•		□ Sh	oreland		Varianc	e		Not in Distric	t or Landmar
	Federal Rules.										
2.	Building permits do not	include plumbing	3 .		etland		Miscellaneous			Does Not Red	uire Review
2.	septic or electrical work.		o'							•	
3.	Building permits are voi	d if work is not s	tarted	☐ Flo	ood Zone		Conditional Use		Requires Revi	iew	
	within six (6) months of			Subdivision			[Interpretation			Approved	
	False information may in		ng								
	permit and stop all work										
				Sit	te Plan		Approve	ed		Approved w/0	Conditions
										()	
				Maj [Minor MN	<u>)</u>	Denied			Denied	
				10)	_			بالمراجع	
				Date:	1/3010	\mathcal{N}	Date:		D	ate:	
					$\eta \cdot \tau$						/
				C	ERTIFICAT	ON					
	reby certify that I am the c										
	ve been authorized by the										
	sdiction. In addition, if a p										
	I have the authority to ento permit.	er all areas cover	ed by st	ich pern	int at any reaso	павіе	nour to emore	e the provi	Sion or	the code(s) app	oncable to
-u-1	. p										
				_					_		
SIG	NATURE OF APPLICANT				ADDRES	S		DATE		PHON	NE
DES	SPONSIBLE PERSON IN CHAR	RGE OF WORK TH						DATE		PHON	

Location of Construction:	Owner Name:	Owner Address:	Phon	Phone:	
338 Cumberland Ave	Three Forty Associates I	Llc 120 Exchange St			
Business Name:	Contractor Name:	Contractor Address:	Phon	e	
	Interstate Fire Protection	PO Box 187 Augusta	8006	5499881	
Lessee/Buyer's Name	Phone:	Permit Type:		Zone:	
		Fire Suppression Sy	vstem		
Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date:	07/30/2004	
Note:			Ok to	Issue:	
Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date:	08/13/2004	
Note:	11			Issue: 🗹	
Dept: Fire	Status: Approved with Conditions	Reviewer: Lt. MacDougal	Approval Date:	08/02/2004	
Note:			Ok to	Issue: 🔽	
a fire alarm acceptance	ce report shall be submitted to the Portla	and Fire Department			

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 APPLICAN	ADDRESS	DATE	PHO
RESPONSIBLE PERSON IN CHARGE OF WORK, TIT		DATE	PHO

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.

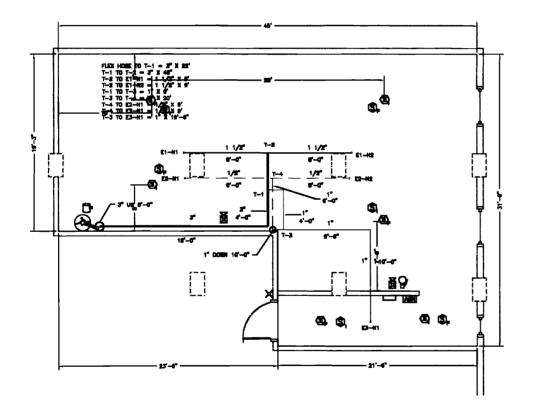
Location/Address of Construction:	340 CEMBERLAND AVE	3 PLOOR
Total Square Footage of Proposed Structu	ure Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: Boulds / HANNAFORD	Telephone:
Lessee/Buyer's Name (If Applicable) HANNAFORD BROS	Applicant name, address & telephone: /WTERSTAKE FIRE PRO, PUBOX 187 GARDINER, M16 04345	Cost Of 23,000 Work: \$ 23,000 Fee: \$ 228,000
Project description:	s prior use:	<u> </u>
Contractor's name, address & telephone: Who should we contact when the permit is Malling address: We will contact you by phone when the pereview the requirements before starting any and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starts before the starting and a \$100.00 fee if any work starting	ermit is ready. You must come in and pic work, with a Plan Reviewer. A stop wo	ck up the permit and
THE REQUIRED INFORMATION IS NOT INCLUDE ENIED AT THE DISCRETION OF THE BUILDING/	DED IN THE SUBMISSIONS THE PERMIT WILL	BE AUTOMATICALLY

INFORMATION IN ORDER TO APROVE 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.

		<u>·</u>	
Signature of applicant:	Kan w Zlah	Date: 7-20-2004	<i>c</i> .
•	777		

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 4th floor of City Hall





PSD-7158 PHOTOELECTRIC DETECTOR (SUB-FLOOR) CPD-7055 IONIZATION DETECTOR (SUB-FLOOR) CPD-7055 IONIZATION DETECTOR

PSD-7158 PHOTOELECTRIC DETECTOR SPST MANUAL RELEASE STATION

SUPPRESSION ABORT STATION

G" BELL - FIRST STAGE ALARM

HORN/STROBE - SECOND STAGE ALARM

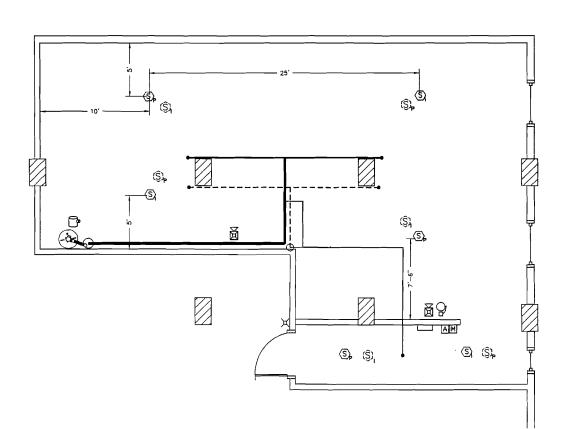
X STROBE - SECOND STAGE ALARM ELECTRIC CYLINDER VALVE ACTUATOR

GENINI II CONTROL PANEL

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ADHERE TO ADA MOUNTING HEIGHT RECOMMENDATIONS

NOTIFICATION APPLIANCES: 80" TOP OF CONTROL PANEL: 60" MANUAL INITIATING DEVICES: 48"



LAYOUT OF ELECTRICAL DEVICES

SCALE: 1/4" = 1'

FIRE DETECTION & CONTROL NOTES

- 1. INTERSTATE FIRE PROTECTION SHALL FURNISH AND INSTALL ALL MATERIALS,
 LABOR AND SERVICES REQUIRED TO INSTALL A COMPLETE FIRE SUPPRESSION SYSTEM
 TO THE OWNER'S SPECIFICATION AS WELL AS ALL APPLICABLE FIRE PREVENTION
 CODES.
 2. THE FIRE SUPPRESSION INSTALLATION SHALL BE MADE IN COMPLIANCE WITH
 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (LATEST EDITION).
 THE FIRE DETECTION INSTALLATION SHALL BE MADE IN COMPLIANCE WITH NFPA 72,
 NATIONAL FIRE ALARM CODE (LATEST EDITION), AND SHALL BE IN COMPLIANCE WITH ALL
 APPLICABLE CODES.
 3. THE FIM—200 SYSTEM SHALL BE CONTROLLED BY A KIDDE GEMINI II CONTROL PANEL.
 THIS PANEL IS U.L. LISTED FOR FIRE SUPPRESSION AND FIRE ALARM SERVICE.
 THIS PANEL WILL BE REFERED TO AS THE "FACP"
 4. THE FACP SHALL BE MOUNTED IN THE VESTIBULE AS SHOWN AND SHALL BE ACCESSIBLE.
 5. THE FLOC SHALL BE MOUNTED IN THE VESTIBULE AS SHOWN AND SHALL BE ACCESSIBLE.
 5. THE FACP SHALL BE MOUNTED IN STAND—BY MODE AND AN ADDITIONAL 5 MINUTES IN ALARM MODE.
 6. THE FACP SHALL COMUNICATE ALARM AND TROUBLE CONDITION TO THE EXISTING BUILDING
 FIRE ALARM SYSTEM.
 7. THE FACP SHALL ACCEPT INPUTS FROM THE FOLLOWING DEVICES:
 a) MANUAL PULL STATIONS,
 b) SMOKE DETECTORS

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ACCEPTABLE METHODS OF

UNDERFLOOR DETECTOR

MOUNTING

JUNCTION BOX SECURED TO FLOOR PEDESTAL

29

JUNCTION BOX SECURED TO FLOOR PEDESTAL

30

ONE HOLE CLAMP

----1/2" (MINIMUM) EM

LAB FLOOR

31

32

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- b) SMOKE DETECTORS

- C) SUPPRESSION ABORT STATIONS

 8. THE FACP SHALL BE PROGRAMMED AS FOLLOWS:

 a) UPON RECEIPT OF AN ALARM FROM A SINGLE SMOKE DETECTOR:

 i) INITIATE A TROUBLE SIGNAL

 - INITIATE ZONE ONE ALARM (BELLS)
 - iii) INITIATE A SIGNAL TO THE BUILDING FIRE ALARM SYSTEM.
 - b) UPON RECEIPT OF AN ALARM FROM A SECOND SMOKE DETECTOR

 i) INITIATE A 30 SECOND FM-200 PRE-DISCHARGE COUNTDOWN ii) INITIATE ZONE TWO ALARMS (HORN/STROBE, MARCH TIME
 - iii) SHUT DOWN HVAC EQUIPMENT AND CLOSE FRESH AIR DAMPERS VIA RELAY(S).
 - iv) AFTER A 30 SECOND COUNTDOWN; RELEASE FM-200 AGENT.
 c) UPON RECEIPT OF A SIGNAL FROM A SINGLE MANUAL RELEASE STATION:
 i) IMMEDIATELY RELEASE FM-200 AGENT.
 - ii) INITIATE ZONE TWO ALARMS (HORN/STROBES AND STROBES)
 - iii) INITIATE A SIGNAL TO THE BUILDING FIRE ALARM SYSTEM.
- ii) SHUT DOWN HVAC EQUIPMENT AND CLOSE FRESH AIR DAMPERS.

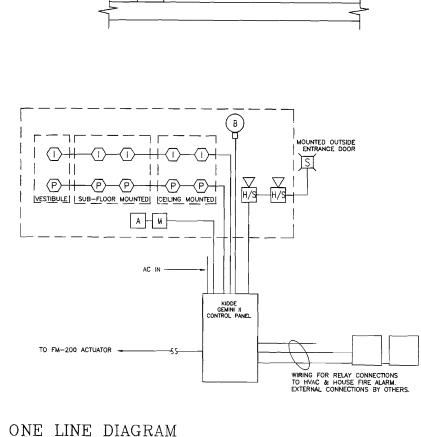
 9. INTERSTATE FIRE PROTECTION SHALL FURNISH A ONE YEAR WARRANTY ON ALL PARTS AND LABOR, AND SHALL RELAY TO THE OWNER THE MANUFACTURER'S WARRANTY ON ANY SUCH PARTS.
- 10. INTERSTATE FIRE PROTECTION SHALL PROVIDE TRAINING IN THE SAFE OPERATION OF THE FM-200 FIRE SUPPRESSION SYSTEM.
- 11. INTERSTATE FIRE PROTECTION SHALL PROVIDE "AS BUILT" DRAWINGS OF THE FM-200 FIRE SUPPRESSION SYSTEM.

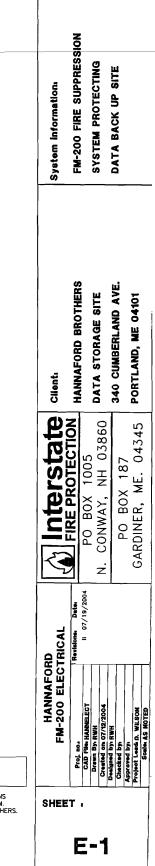
LEGEND

- PSD-7155 PHOTOELECTRIC DETECTOR (SUB-FLOOR)
- CPD-7055 IONIZATION DETECTOR (SUB-FLOOR)
- CPD-7055 IONIZATION DETECTOR
- PSD-7155 PHOTOELECTRIC DETECTOR
- SPST MANUAL RELEASE STATION
- SUPPRESSION ABORT STATION 6" BELL - FIRST STAGE ALARM
- 贸 HORN/STROBE - SECOND STAGE ALARM
- X STROBE - SECOND STAGE ALARM
- ELECTRIC CYLINDER VALVE ACTUATOR
- GEMINI II CONTROL PANEL

JUCTION BOX REQUIREMENTS

QTY.	DEVICE	BACK BOX		
		REQUIREMENT		
12	SMOKE/THERMAL	3 1/2" OR 4" OCTAGON		
1	MANUAL STATION	SINGLE GANG / DOUBLE DEEP		
1	ABORT STATION	SINGLE GANG / DOUBLE DEEP		
1	BELLS	4" SQUARE		
2	HORN/STROBE	4" SQUARE		
1	STROBE ONLY	4" SQUARE		
0	ISO-X MODULE	4" SQUARE		
0	XPC-5 MODULE	BB-25 (PROVIDED)		
0	KEYED MAINT, SWITCH	4" SQUARE WITH W/T ADAPTER		
1	SOLENOID ACTUATORS	SINGLE GANG W./ FLEX CONDUIT		





FLEX HOSE TO T-1 = 3" X 22" FLEX MOSE TO T-1 = 3" x 22' T-1 TO T-2 = 3" x 42' T-2 TO E1-N1 = 1 1/2" x 9' T-2 TO E1-N2 = 1 1/2" x 9' T-1 TO T-3 = 1" x 6' T-3 TO T-4 = 1" x 20' T-4 TO E2-N1 = 1/2" x 9' T-4 TO E2-N1 = 1/2" x 9' T-3 TO E3-N1 = 1" x 19'-6" (Ŝ), 1 1/2" E1-N1 6 E1-N2 9'-0" 9'~0" (Ŝ), 1/2 1/2" 9'-0" 9'-0" 4'-0" 4'-0" 9'-6" 1" DOWN 10'-0" 10'-0"

FM-200 MECHANICAL NOTES

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1. THE FM-200 SYSTEM PIPE NETWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE KIDDE FM-200 DESIGN AND INSTALLATION MANUAL P/N 90-FM200M-000.

2. ALL DISCHARGE PIPING SHALL BE BLACK OR GALVANIZED STEEL, ASTM A-53 SEAMLESS, OR ERW GRADE A OR B, OR ASTM A-53 FURNACE WELDED CLASS F, OR ASTM A-108, GRADE A, B OR C, FITTINGS MUST BE 300% CLASS, MINIMUM, CONFORMING TO ASTM A-197 AND HAVE A MINIMUM WORKING PRESSURE OF 620 PSI. ASTM A-120 AND ORDINARY CAST IRON PIPE MUST NOT BE USED.

3. FOR THREADED FITTINGS, TEPLON TAPE ONLY SHALL BE USED, APPLIED TO MALE PIPE THREADS ONLY.

4. SIDEWALL DISCHARGE NOZZLES PROVIDE 180° DISTRIBUTION OF FM-200 AGENT. NOZZLE DISTRIBUTION PATTERN IS: 40° x 44' WITH THE NOZZLE LOCATED IN THE CENTER OF A SIDE WALL OF THE PROTECTED AREA. RADMA. NOZZLES PROVIDE 360° DISTRIBUTION OF FM-200 AGENT. NOZZLE DISTRIBUTION PATTERN IS: 40° X 44' WITH THE NOZZLE LOCATED IN THE CENTER OF THE PROTECTED AREA.

5. USE CONCENTRIC BELL REDUCERS WHERE PIPE SIZE CHANGES SIZE PER KIDDE INSTALLATION

6. BULL TEES MUST HAVE BOTH OUTLETS ON THE HORIZONTAL PLANE.

8. FLBOWS BEFORE TEE SPLITS GOING TO SEPARATE HAZARDS MUST

9. TEE SPLITS GOING TO SEPARATE HAZARDS FROM A COMMON SUPPLY LINE MUST BE SPACED A MINIMUM OF 15 PIPE DIAMETERS (NOMINAL) APART.

10. PIPE REDUCERS BEFORE TEE SPLITS MUST BE LOCATED A MINIMUM OF 15 PIPE DIAMETERS (NOMINAL) BEFORE THE SPLITS. PIPE REDUCERS MUST BE OF THE CONCENTRIC REDUCER TYPE.

INTERSTATE FIRE PROTECTION
4 TIMBER RIDGE
FREEPORT, ME 04-032
UNITED STATES
PHONE: 207 885 0574
ECS SERIES - KID3.00
UL: EX4674 FM: PI 3009421 INTERSTATE FIRE PROTECTION
4 TIMBER RIDGE
4 TIMBER RIDGE
4 TIMBER RIDGE
4 TIMBER RIDGE
6 4032
UNITED STATES
FREEPORT, ME 04032
FR

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CALCULATION DATE/TIME: THURSDAY, JULY 15, 2004, 10:14:16 AM

23

SYSTEM ACCEPTANCE

SYSTEM DISCHARGE TIME: 8.1 SECONDS PERCENT AGENT IN PIPE: 81.9% PERCENT AGENT BEFORE FIRST TEE: 43.2% ENCLOSURE NUMBER: 1 ENCOSURE NAME: MAIN AREA MINIMUM DESIGN CONCENTRATION: 6.250% ADJUSTED DESIGN CONCENTRATION: 6.394% PREDICTED CONCENTRATION: 6.405% ADJUSTED CONCENTRATION: 6 MAXIMUM EXPECTED AGENT CONCENTRATION: 6.532% (AT 75 F)

MINIMUM ADJUSTED PREDICTED NOZZLE
AGENT AGENT PRESSURE
NOZZLE REQUIRED DELL/PERED (AVERAGE)
E1-N1 53.5 LBS 157.3 LBS 157.5 LBS 134 PSIG
E1-N2 153.5 LBS 157.2 LBS 157.5 LBS 134 PSIG

ENCLOSURE NUMBER: 2
ENCLOSURE NAME: SUB-FLOOR
MINIMUM DESIGN CONCENTRATION: 6.250%
ADJUSTED DESIGN CONCENTRATION: 6.401%
PREDICTED CONCENTRATION: 6.261%

MINIMUM ADJUSTED PREDICTED NOZZLE AGENT AGENT AGENT PRESSURE NOZZLE REQUIRED REQUIRED DELIVERED (AVERAGE) E2-N1 16.4 LBS 16.8 LBS 16.4 LBS 86 PSIG E2-N2 16.4 LBS 16.8 LBS 16.4 LBS 86 PSIG

PAGE: 1 OF 2
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ENCLOSURE NUMBER: 3
ENCLOSURE NAME: VESTIBULE
MINIMUM DESIGN CONCENTRATION: 6.250%
ADJUSTED DESIGN CONCENTRATION: 6.380%
PREDICTED CONCENTRATION: 6.411% MAXIMUM EXPECTED AGENT CONCENTRATION: 6.537% (AT 75 F)

MINIMUM ADJUSTED PREDICTED NOZZLE
AGENT AGENT PRESSURE
NOZZLE REQUIRED REQUIRED DELMERED (AVERAGE)
E3-N1 36.1 LBS 36.9 LBS 37.1 LBS 104 PSIG

PAGE: 2 OF 2
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\HANNAFORD DATA STORAGE CALCULATION DATE/TIME: THURSDAY, JULY 15, 2004, 10:14:16 AM

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PROTECTING

-200

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SYSTEM Data ba

CUMBERLAND AVE. STORAGE SITE

DATA

FIRE PROTECTION
PO BOX 1005
N. CONWAY, NH 03860
PO BOX 187
GARDINER, ME. 04345

ż

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04101

TOTAL AGENT REQUIRED: 385.0 LBS CONTAINER NAME: 600 LB CYLINDER, 3 IN. VALVE (PART: 90-100600-100) NUMBER OF CONTAINERS: 1

NOZZLE TYPE NOZZLE AREA PART NUMBER

E1-N1 360' 0.9362 SQUARE IN 90-194027-386 E1-N2 360' 0.9362 SQUARE IN 90-194027-386 E2-N1 360' 0.2150 SQUARE IN 90-194023-185 E2-N2 360' 0.2150 SQUARE IN 90-194023-185 E3-N1 360' 0.3559 SQUARE IN 90-194023-238

PIPE: TYPE DIAMETER LENGTH 40T 1/2 IN 17.00 FT 40T 1 IN 44.50 FT 40T 1-1/2 IN 22.00 FT 40T 3 IN 32.50 FT

'OTHER' ITEMS: 1 - 3 IN. FLEX HOSE - 90" BEND (PART: 06-118225-001)

LIST OF 90 DEGREE ELBOWS: 5 - 1 IN 2 - 1-1/2 IN 2 - 1/2 IN 2 - 3 IN

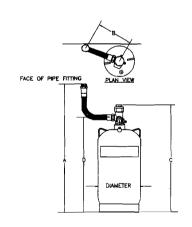
PAGE: 1 OF 2
COPYRIGHT (C) HUGHES ASSOCIATES, INC. LICENSED TO: KIDDE-FENWAL

LIST OF TEES: 2 - 1 IN 2 - 3 IN PAGE: 2 OF 2

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QTY. A B C D CYL. DIA. HOSE DIA. 600 # CAPACITY 1 84.5 20 58 50.5 22

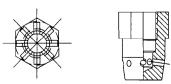
HOSE IS GROOVED FITTING



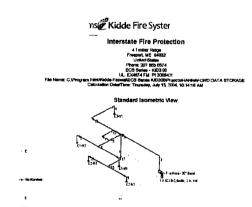
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FM-200 CYLINDER DIMENSIONS



FM-200 NOZZLE DETAIL



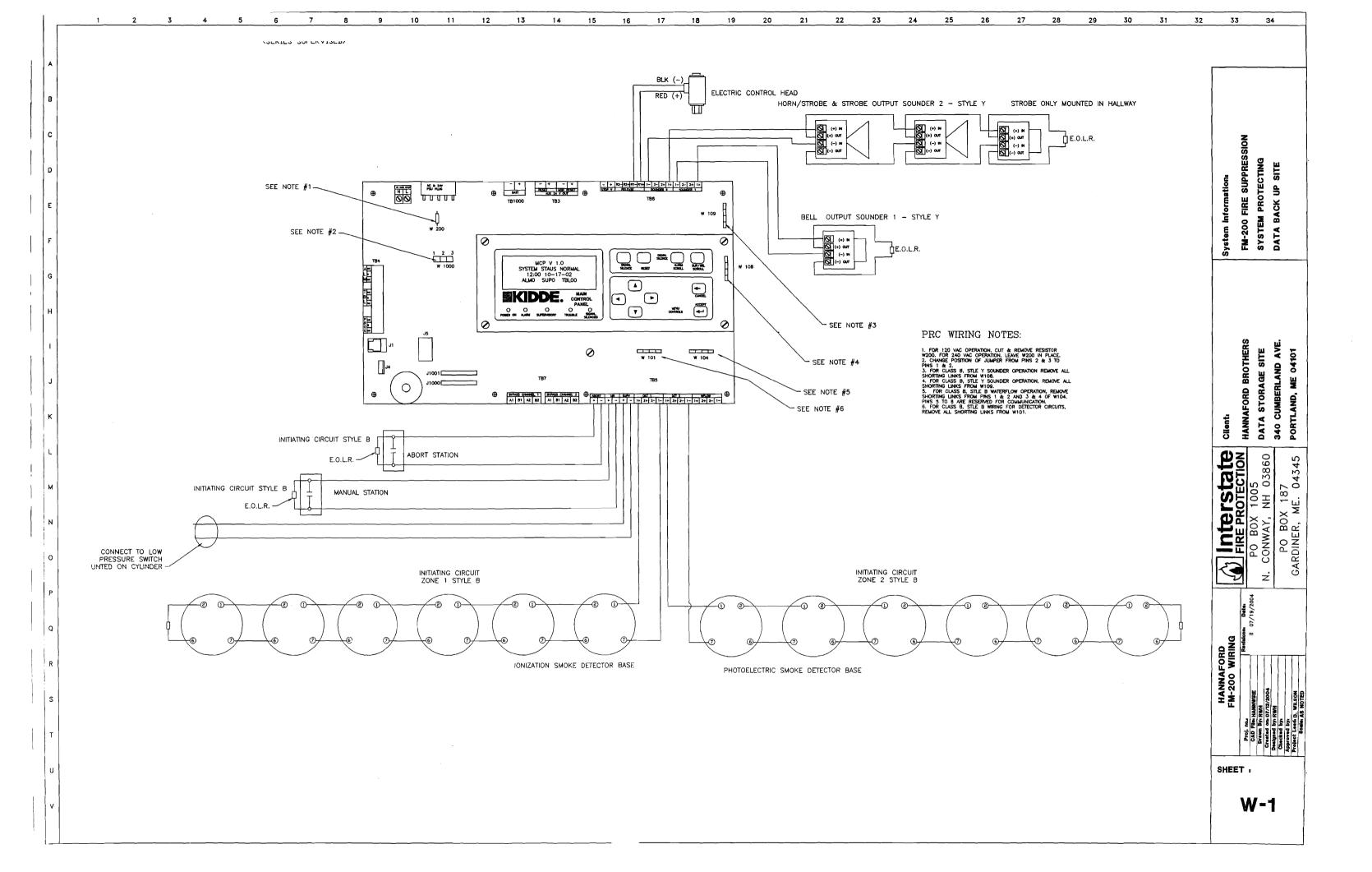
FM-200 MECHANICAL COMPONENT LAYOUT

SCALE:1/4" = 1'

File HANNAECH m Byrkwi de on DYAZ2004 id byr RWH id byr de byr leed by WILSON

SHEET .

M-1





CITY OF PORTLAND, MAINE

Department of Building Inspections

			20
		•	
Received from		·	
Location of Work		,	·
Cost of Construction	\$		
Permit Fee	\$		
Building (IL) Plu	mbing (I5)	Electrical (I2)	Site Plan (U2)
Other			
CBL:			
Check #:		Total Coll	ected \$_/

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