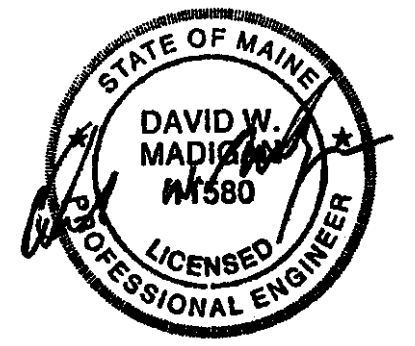


PORT CITY ARCHITECTURE

65 NEWBURY STREET  
PORTLAND, ME 04101  
207.761.9000  
fax: 207.761.2010  
lita@portcityarch.com



**VANZELM**  
ENGINEERS

VANZELM HEYWOOD & SHADFORD, INC.  
10 TALCOTT NOYSE FARMINGTON, CT 06032  
TEL: (860) 284-5064 FAX: (860) 284-5066  
PROJECT NO.: 2007120.00

**BECKER**  
structural engineers, inc.

**SYTDesign**  
CONSULTANTS  
CIVIL ENGINEERING & LANDSCAPE ARCHITECTURE



#	DATE	DESCRIPTION
		PERMIT SET
	01/24/08	Date Issued
	06506	Project Number

SHEET NAME  
**FIRE PROTECTION  
LEGEND, SCHEDULE &  
NOTES**

Drawn By  
**SMS**  
Checked By  
**DMM**

**FPO.1**

### FIRE PROTECTION ABBREVIATIONS

ACV	ALARM CHECK VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
CTE	CONNECT TO EXISTING
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DPV	DRY PIPE VALVE
EC	EXTENDED COVERAGE
EL	ELEVATION
ETR	EXISTING TO REMAIN
EX	EXISTING
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FPC	FIRE PUMP CONTROLLER
FPTH	FIRE PUMP TEST HEADER
FS	FLOW SWITCH
FSP	FIRE STANDPIPE
FVC	FIRE VALVE CABINET
G	GAZE GUARD
GPM	GALLONS PER MINUTE
HD	HEAT DETECTOR
HT	HIGH TEMPERATURE
IT	INTERMEDIATE TEMPERATURE
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
LPS	LOW PRESSURE SWITCH
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
PA	PREACTION
PAC	PREACTION ALARM VALVE CABINET
PIV	POST INDICATOR VALVE
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RCV	RISER CONTROL VALVE
RPD	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
RR	REMOVE & RELOCATE
SP	SPRINKLER
SS	SUPERVISORY SWITCH
TYP	TYPICAL
UG	UNDERGROUND
WF	VERIFY IN FIELD

### FIRE PROTECTION SYMBOLS

○	CONCEALED SPRINKLER
●	PENDENT SPRINKLER
X	UPRIGHT SPRINKLER
⊙	DRY PIPE SPRINKLER
▲	DRY SIDEWALL SPRINKLER
△	WET SIDEWALL SPRINKLER
⊖	EXISTING SPRINKLER TO REMAIN
X	EXISTING UPRIGHT SPRINKLER TO REMAIN
△	EXISTING SIDEWALL SPRINKLER TO REMAIN
⊖ <sup>R</sup>	EXISTING SPRINKLER TO BE REMOVED
X <sup>R</sup>	EXISTING UPRIGHT SPRINKLER TO BE REMOVED
△ <sup>R</sup>	EXISTING SIDEWALL SPRINKLER TO BE REMOVED
⊖ <sup>A</sup>	ALARM CHECK VALVE RISER ASSEMBLY
⊖ <sup>D</sup>	DRY PIPE VALVE RISER ASSEMBLY
⊖ <sup>PA</sup>	PREACTION VALVE RISER ASSEMBLY
⊖ <sup>FS</sup>	SPRINKLER FLOW SWITCH
⊖ <sup>PS</sup>	PRESSURE SWITCH
⊖ <sup>LPS</sup>	LOW PRESSURE SWITCH
⊖ <sup>SS</sup>	SUPERVISORY SWITCH (TAMPER SWITCH)
⊖ <sup>PRV</sup>	ANGLE HOSE VALVE W/CAP & CHAIN
⊖ <sup>PRV</sup>	PRESSURE REGULATING ANGLE HOSE VALVE
⊖ <sup>PRV</sup>	PRESSURE RELIEF VALVE
⊖ <sup>SS</sup>	VALVE IN PIPE RISER
⊖ <sup>SS</sup>	OS&Y VALVE (SUPERVISED)
⊖ <sup>SS</sup>	GATE VALVE (SUPERVISED)
⊖ <sup>SS</sup>	BALL VALVE (SUPERVISED AND NON-SUPERVISED)
⊖ <sup>SS</sup>	BUTTERFLY VALVE (SUPERVISED)
⊖ <sup>SS</sup>	VALVE IN PIPE DROP
N	CHECK VALVE
⊖ <sup>SS</sup>	BACKFLOW PREVENTER ASSEMBLY (DCVA) WITH SHUTOFF VALVES
⊖ <sup>SS</sup>	BACKFLOW PREVENTER ASSEMBLY (RPD) WITH SHUTOFF VALVES
⊖ <sup>PRV</sup>	PRESSURE REGULATING VALVE (X = PSI SETTING)
⊖ <sup>PIV</sup>	POST INDICATOR VALVE (SUPERVISED)
FDC	POST MOUNTED FIRE DEPARTMENT CONNECTION (REFER TO SPECIFICATIONS FOR TYPE)
FDC	WALL MOUNTED FIRE DEPARTMENT CONNECTION (REFER TO SPECIFICATIONS FOR TYPE)
⊖ <sup>FP</sup>	FIRE PUMP TEST HEADER (REFER TO SPECIFICATIONS FOR TYPE)
⊖ <sup>P</sup>	PUMP
⊖ <sup>PG</sup>	PRESSURE GAUGE
⊖ <sup>EAB</sup>	ELECTRIC ALARM BELL
⊖ <sup>WMG</sup>	WATER MOTOR GONG
⊖ <sup>TB</sup>	THRUST BLOCK
⊖ <sup>ATS</sup>	AUTOMATIC TRANSFER SWITCH
⊖ <sup>FPC</sup>	FIRE PUMP CONTROLLER
⊖ <sup>JPC</sup>	JOCKEY PUMP CONTROLLER
⊖ <sup>PAC</sup>	PREACTION ALARM ASSEMBLY CABINET
⊖ <sup>RAP</sup>	REMOTE ALARM PANEL
⊖ <sup>CE</sup>	CONNECT TO EXISTING
⊖ <sup>CGVB</sup>	CURB GATE VALVE & BOX
⊖ <sup>FCVA</sup>	FLOOR CONTROL VALVE ASSEMBLY
⊖ <sup>FVC</sup>	FIRE VALVE CABINET
⊖ <sup>SD</sup>	SMOKE DETECTOR
⊖ <sup>HD</sup>	HEAT DETECTOR

### FIRE PROTECTION LEGEND

→	FLOW DIRECTION
—F—	FIRE LINE
—F—	FIRE SERVICE BURIED
—SP—	WET SPRINKLER SYSTEM
—DRY—	DRY PIPE SPRINKLER SYSTEM
—D—	DRAIN PIPING
—FDC—	FIRE DEPARTMENT CONNECTION
—FPTH—	FIRE PUMP TEST HEADER PIPING
—PA—	PREACTION SPRINKLER SYSTEM
—	EXISTING PIPING OR EQUIPMENT
—	REMOVE EXISTING PIPING OR EQUIPMENT
—	PIPE DOWN
—	PIPE UP
—	PIPE DROP
—	CAPPED PIPE

### LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

### FIRE PROTECTION GENERAL NOTES

- THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
- THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.
  - DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL INTENT OF WORK. SEE DETAILS, RISERS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - THE DRAWINGS INDICATE A SUGGESTED SPRINKLER LAYOUT AND THAT EACH AREA IS COVERED BY SPRINKLER PROTECTION AS REQUIRED PER CODE. THE SPRINKLER QUANTITIES SHALL NOT BE COUNTED AS A TAKE OFF OR AS EXACT LOCATIONS. REFER TO NFPA STANDARDS FOR EXACT SPACING, DENSITY, AND LOCATION REQUIREMENTS.
  - SPRINKLERS IN FINISHED CEILING AREAS SHALL ALWAYS BE LOCATED IN THE CENTER OF CEILING TILES IN BOTH DIRECTIONS UNLESS INDICATED OTHERWISE.
  - REVIEW THE ARCHITECTURAL REFLECTED CEILING PLANS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION SUCH AS CEILING HEIGHTS, TYPES, SOFFITS AND OR OTHER DEVICE LOCATIONS.
  - REVIEW THE ELECTRICAL DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF LIGHTS, AND CEILING MOUNTED DEVICES WHICH MAY INTERFERE WITH SPRINKLER HEAD LOCATIONS OR SPRAY PATTERNS.
  - REVIEW THE HVAC DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF CEILING MOUNTED DEVICES SUCH AS DIFFUSERS, GRILLS, REGISTERS, LOCATIONS OF HEAT PRODUCING EQUIPMENT AND DUCTWORK REQUIRING SPRINKLER PROTECTION BELOW IT.
  - PROVIDE PIPE EXPANSION JOINTS AT ALL BUILDING EXPANSION JOINT LOCATIONS AND APPROVED SEISMIC EXPANSION LOOPS AT ALL BUILDING SEISMIC JOINT LOCATIONS AS REQUIRED PER NFPA STANDARDS AND BUILDING CODES. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATIONS OF EXPANSION AND SEISMIC JOINTS.
  - REFER TO SITE PLAN AND CIVIL ENGINEER'S DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO COORDINATION OF SITE UTILITIES, BOTH EXISTING AND NEW.
  - IN RENOVATION WORK, COORDINATE SYSTEMS SHUTDOWN WITH OWNER IN ORDER TO MAKE NEW PIPING CONNECTIONS. ALLOW MINIMUM OF TEN (10) DAYS ADVANCE NOTICE FOR OWNER APPROVAL TO PROCEED WITH CONTRACT WORK.

### FIRE PROTECTION DEMOLITION NOTES

- THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
- VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
  - ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL PIPING AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THE DOCUMENTS IS THAT SYSTEM EQUIPMENT AND PIPING IS TO BE REMOVED IN ALL RENOVATED AREAS AS NOTED AND MAY NOT ALL BE SHOWN.
  - REMOVE ALL FIRE PROTECTION PIPING SYSTEMS INCLUDING BUT NOT LIMITED TO SPRINKLER/STANDPIPE, SPRINKLERS HANGERS, VALVES, SWITCHES, AND DEVICES AS SHOWN OR NOTED ON THE DRAWINGS. COORDINATE ALL WIRING WORK RELATED TO DEVICES BEING REMOVED WITH ELECTRICAL CONTRACTOR.
  - ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY AND CAPPED AS SHOWN WITHOUT LEAVING ANY DEAD ENDED PIPING OR ABANDONED PIPING. SECURE IN PLACE.
  - NO FIRE PROTECTION EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.
  - IT IS THE INTENT OF THESE DOCUMENTS THAT ANY AND ALL DEVICES REMOVED SHALL NOT BE REUSED, BUT ONLY NEW SHALL BE INSTALLED.
  - ANY SYSTEM OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
  - ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK.
  - THE FIRE MARSHAL AND/OR THE INSURANCE UNDERWRITER SHALL BE CONTACTED TO REVIEW AND APPROVE THE EXTENT OR PHASING OF THE FIRE PROTECTION DEMOLITION IN ORDER TO PROTECT THE OCCUPANTS AND PROPERTY. THESE DOCUMENTS DO NOT ADDRESS THE PHASING OF THE SYSTEM REMOVAL, ONLY THE EXTENT.
  - REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

3  
2  
1  
0  
SCALE 1"=1'

4  
3  
2  
1  
0  
SCALE 3/4"=1'

6'  
3'  
2'  
1'  
0  
SCALE 1/2"=1'

12  
8  
4  
0  
SCALE 1/4"=1'

20  
10  
0  
SCALE 1/8"=1'

40  
20  
10  
0  
SCALE 1/16"=1'

**PERMIT SET - NOT FOR CONSTRUCTION**

