

NOTES FOR 13R 2010ed. SYSTEM

- (13R) 6.3.4.3.4. SHALL BE INSTALLED IN ALL AREAS SHALL BE PERMITTED ON A HORIZONTAL PLANE IN COMPARTMENTS CONTAINING AREAS (ON AS ALL OF THE FOLLOWING:
 - 1) THE MAX AREA OF ANY SINGLE CONTIGUOUS SHADOWED FLOOR EXCEEDS 127 SQ. FT.
 - 2) SHADOWED FLOOR AREAS SHALL NOT EXCEED 127 SQ. FT. PER COMPARTMENT ALLOWANCES MADE BY 12.3.3 SHALL NOT EXCEED 61/2 SQ. FT. PER DWELLING UNIT.
- (13R) 6.2. SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS WHERE BOTH OF THE FOLLOWING CONDITIONS ARE MET:
 - 1) THE BATHROOM AREA DOES NOT EXCEED 55 FT. SQ.
 - 2) THE BATHROOM AND CEILING INCLUDING WALLS AND CEILING UNITS - COMBUSTIBLE MATERIALS PROVIDING A 15 MINUTE THERMAL BARRIER.
- (13R) 6.3. SPRINKLERS SHALL NOT BE REQUIRED IN CLOSET AREAS UNLESS CLOSETS AND PARTS WITHIN THE DWELLING UNITS
 - 1) THE AREA OF THE SPACE DOES NOT EXCEED 34 FT. SQ.
 - 2) THE CEILING FINISHING DOES NOT EXCEED 5 FT. NON-COMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIAL.
- (13R) 6.3. SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS, BALKONIES, CORRIDORS, CLOSETS, AND STAIRS THAT ARE OPEN AND ATTACHED.
- (13R) 6.3. SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS, BALKONIES, CORRIDORS, CLOSETS, AND STAIRS THAT ARE EXTERIOR BALCONIES OR EXTERIOR BREEZEWAYS/CORRIDORS EXCEPT FOR THE DWELLING UNITS BY AN ACCESS DOOR DIRECTLY INTO THE DWELLING UNITS.

PVC CURING TIMES

FOR TFP-400, TFP-500
VICI TAULIC #899 & SPARS FS-5
CURE TIMES WITH ONE STEP SOLUBLE CEMENT
700 PS (MAXIMUM TEST PRESSURE)

PIPE SIZE (INCHES)	AMBIENT TEMPERATURE DURING CURE PERIOD	0° TO 20°	15°	10° TO 59°	24 HR.	24 HR.	24 HR.
3/4"	45 MIN.	1.5 HR.	1.5 HR.	24 HR.	24 HR.	24 HR.	24 HR.
1-1/4"	1.5 HR.	1.5 HR.	1.5 HR.	24 HR.	24 HR.	24 HR.	24 HR.
1-1/2"	1.5 HR.	1.5 HR.	1.5 HR.	24 HR.	24 HR.	24 HR.	24 HR.
2-1/2"	8 HR.	8 HR.	8 HR.	24 HR.	24 HR.	24 HR.	24 HR.

NOTE 1: FOR THESE SIZES, THE SOAKY (CURE) CAN BE APPLIED AT 100°F. THE SOAKY (CURE) MUST BE APPLIED AT 100°F OR ABOVE AND ALLOWED TO CURE PER THE ABOVE RECOMMENDATIONS PRIOR TO PRESSURE TESTING.

PVC HANGING NOTES

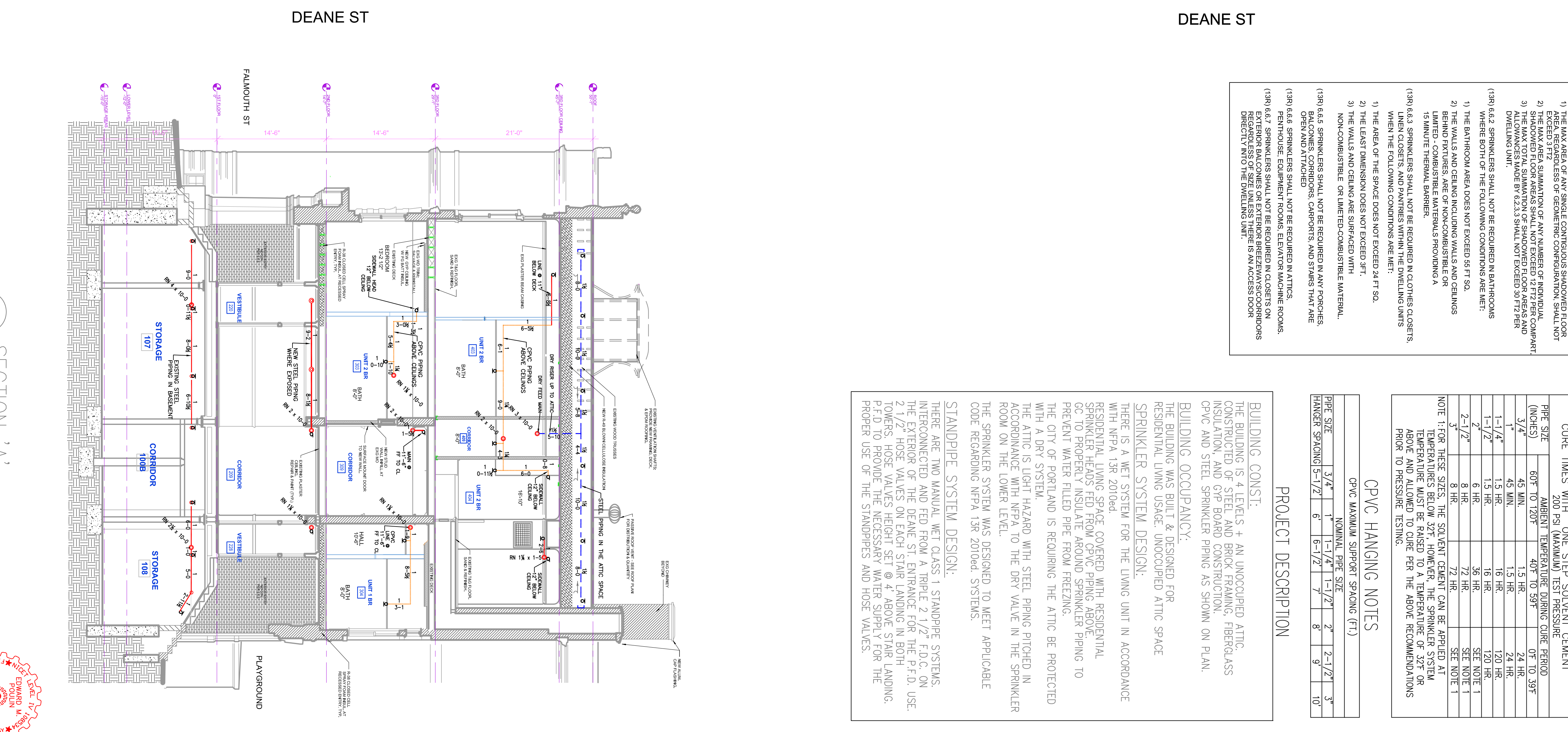
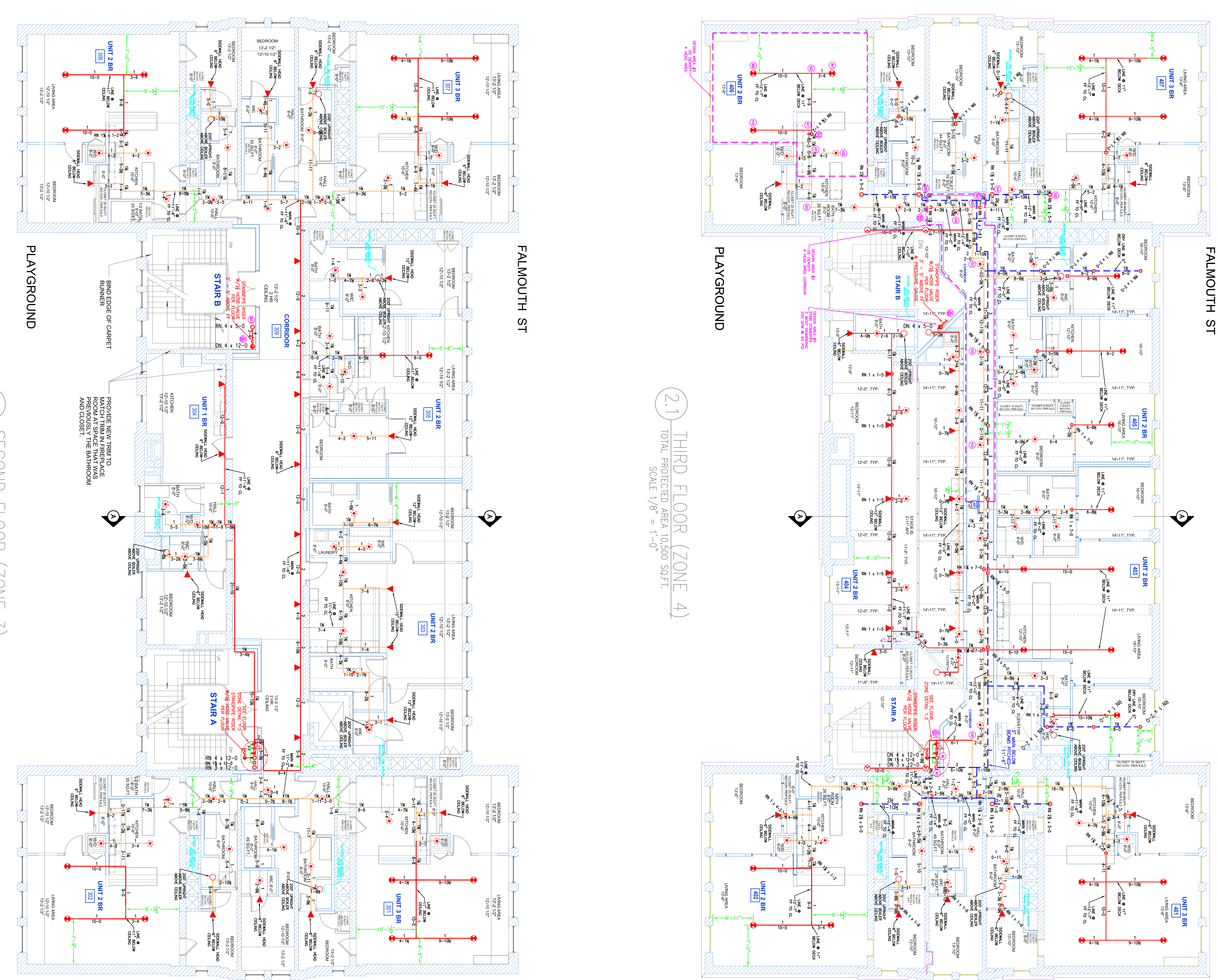
PIPE SIZE	NOMINAL PIPE SIZE	1-1/4"	1-1/2"	2"	2-1/2"	3"
3/4"	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
HANGER SPACING	5'-1/2"	8'	6'-1/2"	7'-2"	8'	10'

PROJECT DESCRIPTION

BUILDING CONSTRUCTION:
THE BUILDING IS A 4-STORY + AN UNOCCUPIED ATTIC, CONSTRUCTED OF STEEL AND BRICK FRAMING, FIBERGLASS INSULATION, AND GYP BOARD CONSTRUCTION.
PVC AND STEEL SPRINKLER PIPING AS SHOWN ON PLAN.

BUILDING OCCUPANCY:
THE BUILDING WAS BUILT & DESIGNED FOR RESIDENTIAL LIVING USAGE. UNOCCUPIED ATTIC SPACE SPRINKLER SYSTEM DESIGN.
THERE IS A WET SYSTEM FOR THE LIVING UNIT IN ACCORDANCE WITH NFPA 13R 2010ed.
RESIDENTIAL LIVING SPACES COVERED WITH RESIDENTIAL GC TO PROPERLY INSULATE AROUND FREEZING. THE CITY OF PORTLAND IS REQUIRING THE ATTIC BE PROTECTED WITH A DRY SYSTEM.
THE ATTIC IS LIGHT HAZARD WITH STEEL PIPING PITCHED IN ACCORDANCE WITH NFPA 10 TO THE DRY VALVE IN THE SPRINKLER ROOM ON THE LOWER LEVEL.
THE SPRINKLER SYSTEM WAS DESIGNED TO MEET APPLICABLE CODE REQUIRING NFPA 13R 2010ed. SYSTEMS.

STANDPIPE SYSTEM DESIGN:
THERE ARE TWO MANUAL WET CLASS 1 STANDPIPE SYSTEMS, INTERCONNECTED AND FED FROM A TRIPLE 2-1/2" T.D.C. ON 2-1/2" HOSE VALVES ON EACH STAIR LANDING IN BOTH TOWERS. HOSE VALVES HEIGHT SET @ 4' ABOVE STAIR LANDING. P.F.D TO PROVIDE THE NECESSARY WATER SUPPLY FOR THE PROPER USE OF THE STANDPIPES AND HOSE VALVES.



HIGH TECH FIRE PROTECTION
P.O. BOX 156
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NAME LICENSE # 102
GENERAL CONTRACTOR ON RECORD:
CG 65 BRADLEY PINE WESTBROOK
HEATHER LUMB, PM # 987-3228
JAMES TREMBLAY, JS # 615-8704

- LEGEND:**
- R/W PIPE RISER UP OR DOWN
 - PROPOSED DRAIN FIRE PRE
 - PROPOSED CPVC PIPE
 - PROPOSED DRY STEEL PIPE
 - SYSTEM RISER
 - PIPE FITTING & MANS JUNCTIONS
 - HYDRAULIC CALC POINT

DESIGN & SYSTEM NOTES:

WITH APPROVED DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE TO ALL PIPING 1 1/2" & SMALLER TO BE SCHEDULE 40 STEEL PIPE. PIPING 2" & LARGER SHALL BE IN ACCORDANCE WITH NFPA 13R. ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13R. ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13R. ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13R. ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13R.

REVISIONS:

NO.	DATE	DESCRIPTION
1	APRIL 30, 2014	DATE: APRIL 30, 2014
2	DESIGNER: ED DOULIN (RWS 515)	DESIGNER: ED DOULIN (RWS 515)
3	CHECKED BY: AL FOSS	CHECKED BY: AL FOSS

LOCATION: 180 FALMOUTH STREET, PORTLAND, ME

DRAWING TITLE: 2ND & 3RD FLOOR FIRE PROTECTION PLAN (NFPA 13R 2010ed.)

DRAWING NO.: FP-02

- **DESIGN AREA NUMBER 2***
LOADING - 2ND FLOOR COMMON ROOMS
NUMBER OF SPARKING: 5
NO. OF STAIRS: 2
NO. OF ELEVATORS: 1
NO. OF EXITS: 1
NO. OF WINDOWS: 24
NO. OF DOORS: 14
SAFETY MARCH: 48-75
- **DESIGN AREA NUMBER 3***
LOADING - 3RD FLOOR COMMON ROOMS
NUMBER OF SPARKING: 5
NO. OF STAIRS: 2
NO. OF ELEVATORS: 1
NO. OF EXITS: 1
NO. OF WINDOWS: 24
NO. OF DOORS: 14
SAFETY MARCH: 48-75
- **DESIGN AREA NUMBER 4***
LOADING - 3RD FLOOR COMMON ROOMS
NUMBER OF SPARKING: 5
NO. OF STAIRS: 2
NO. OF ELEVATORS: 1
NO. OF EXITS: 1
NO. OF WINDOWS: 24
NO. OF DOORS: 14
SAFETY MARCH: 48-75
- **DESIGN AREA NUMBER 5***
LOADING - 3RD FLOOR COMMON ROOMS
NUMBER OF SPARKING: 5
NO. OF STAIRS: 2
NO. OF ELEVATORS: 1
NO. OF EXITS: 1
NO. OF WINDOWS: 24
NO. OF DOORS: 14
SAFETY MARCH: 48-75

2 SECOND FLOOR (ZONE 3)
TOTAL PROTECTED AREA 10,500 SQ.FT.
SCALE 1/8" = 1'-0"

2.2 SECTION 'A-A'
SCALE 1/8" = 1'-0"