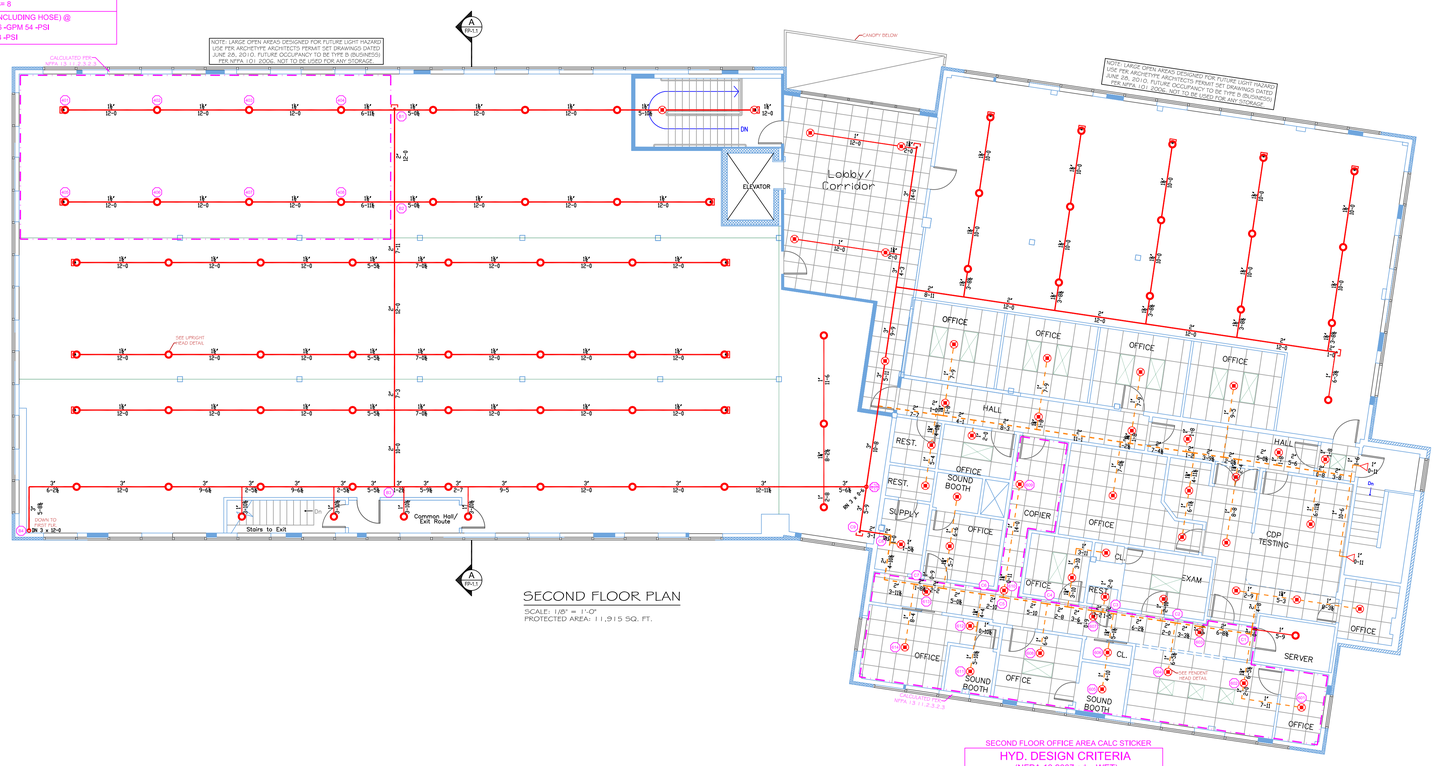
SECOND FLOOR OPEN AREA CALC STICKER

HYD. DESIGN CRITERIA
(NFPA 13 2007 ed. - WET)

LOCATION= SECOND FLOOR FUTURE FIT-UP AREA
HAZARD CLASSIFICATION: LIGHT
DENSITY=.1 GPM/SQ.FT.
AREA OF OPERATION= 1000 SQ. FT.
HOSE DEMAND: 100 GPM
NO. OF SPRINKLERS= 8

SYSTEM DEMAND (INCLUDING HOSE) @
BASE OF RISER= 286 -GPM 54 -PSI
SAFETY MARGIN= 53 -PSI



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"
PROTECTED AREA: 11,915 SQ. FT.

SECOND FLOOR OFFICE AREA CALC STICKER

HYD. DESIGN CRITERIA
(NFPA 13 2007 ed. - WET)

LOCATION= SECOND FLOOR OFFICE AREA
HAZARD CLASSIFICATION: LIGHT
DENSITY=.1 GPM/SQ.FT.
AREA OF OPERATION= 900 SQ. FT.
HOSE DEMAND: 100 GPM
NO. OF SPRINKLERS= 14

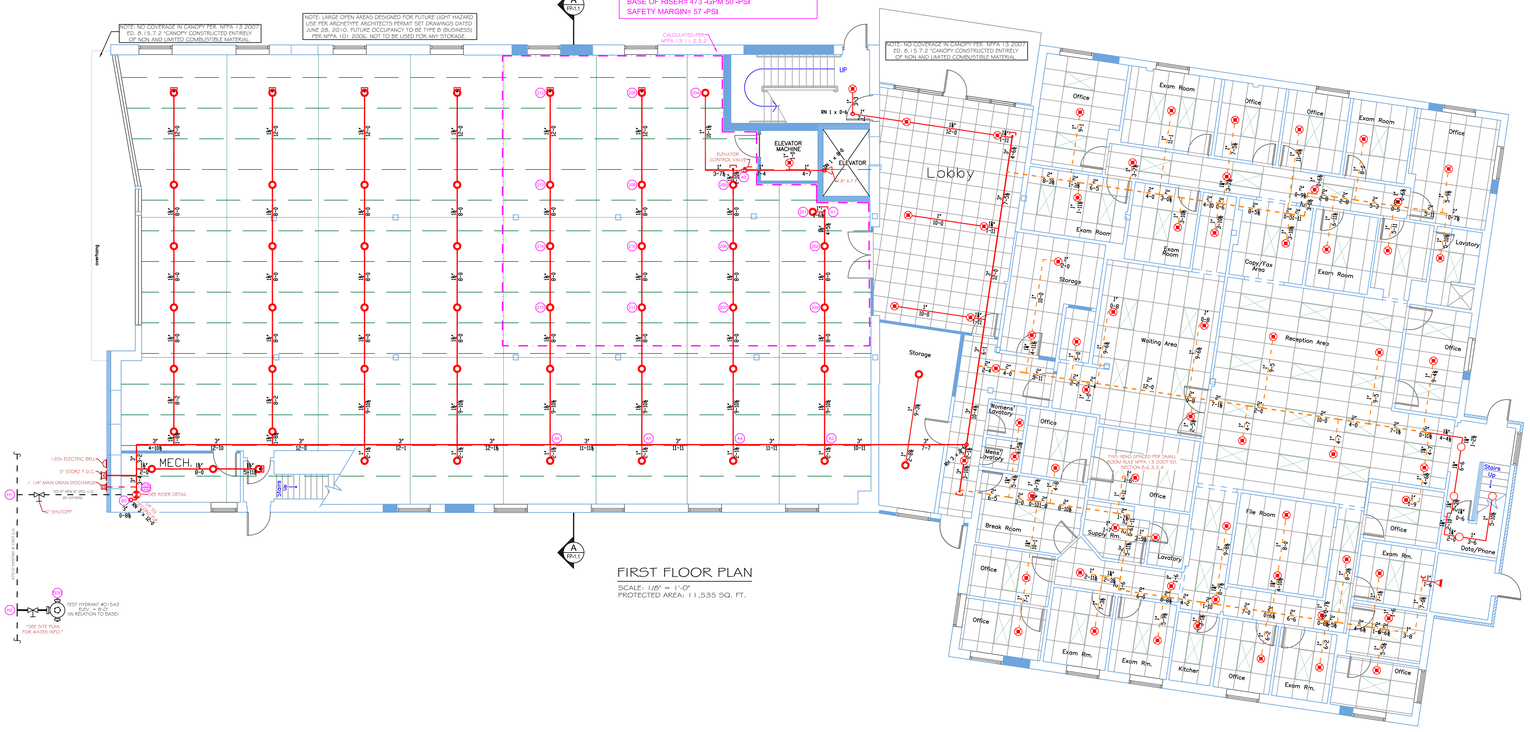
SYSTEM DEMAND (INCLUDING HOSE) @
BASE OF RISER= 414 -GPM 86 -PSI
SAFETY MARGIN= 20 -PSI

FIRST FLOOR OPEN AREA CALC STICKER

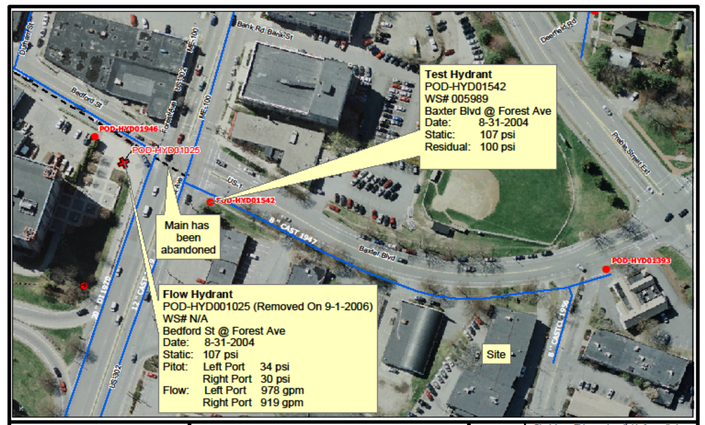
HYD. DESIGN CRITERIA
(NFPA 13 2007 ed. - WET)

LOCATION= FIRST FLOOR FUTURE FIT-UP AREA
HAZARD CLASSIFICATION: LIGHT
DENSITY=.1 GPM/SQ.FT.
AREA OF OPERATION= 1500 SQ. FT.
HOSE DEMAND: 100 GPM
NO. OF SPRINKLERS= 15

SYSTEM DEMAND (INCLUDING HOSE) @
BASE OF RISER= 473 -GPM 50 -PSI
SAFETY MARGIN= 57 -PSI

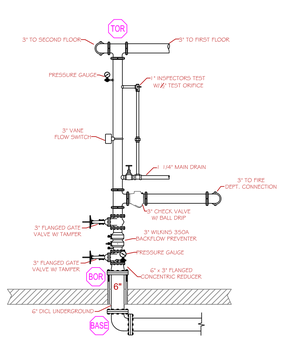


FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
PROTECTED AREA: 11,535 SQ. FT.

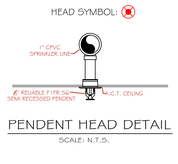


43 Baxter Boulevard **Portland** **PORTLAND WATER DISTRICT** 225 Douglass Street Portland, ME 04104	Scale 0 100 Feet 1 inch = 100 feet Legend: Blow Off, By Pass, Distribution, End of Main, Fire Service, Hydrant Control, Service, Transmission, Air Valve, Date Change, Material Change, Reducer, Sleeve, Tee, Hydrants	Disclaimer: This map is suitable for preliminary study and analysis and is based on PWD record information. PWD is not liable for any damages whatsoever resulting from inaccurate data or from errors made in the location and marking of its infrastructure. Drawn By: DPW Prepared for: Hi Tech Fire Scale: As Noted Date: 9-21-2010

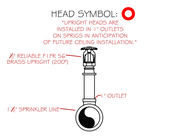
SITE PLAN
SCALE: N.T.S.



RISER DETAIL
SCALE: N.T.S.



PENDENT HEAD DETAIL
SCALE: N.T.S.



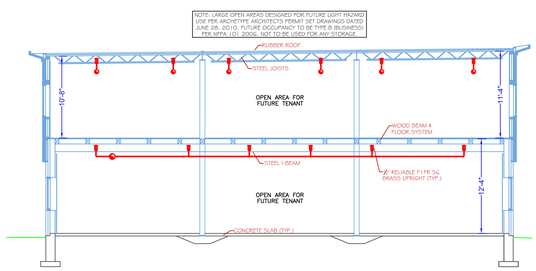
UPRIGHT HEAD DETAIL
SCALE: N.T.S.

PROJECT DESCRIPTION

BUILDING CONST: THE BUILDING IS CONSTRUCTED UTILIZING STEEL AND WOOD CONSTRUCTION. THE FIRST FLOOR OPEN AREA IS CONSTRUCTED WITH WOOD BEAMS AND A WOOD FLOOR SYSTEM WHILE THE REMAINDER OF THE BUILDING IS CONSTRUCTED WITH STEEL JOISTS AND METAL DECKING. EXISTING INTERIOR WALLS ARE COVERED IN G.W.B. AND A DROPPED CEILING IS UTILIZED THROUGHOUT. THE ROOF SURFACE IS METAL DECKING AND COVERED WITH AN EPDM RUBBER MEMBRANE.

BUILDING OCCUP: THE BUILDING CONTAINS AN EXISTING MEDICAL OFFICE. THE OPEN AREAS ARE BEING PREPARED FOR A FUTURE TENANT FIT-UP.

SPRINKLER DESIGN: THE SPRINKLER SYSTEM HAS BEEN DESIGNED USING A LIGHT HAZARD CLASSIFICATION THROUGHOUT. ALL HEADS IN THE OPEN AREAS ARE INSTALLED IN 1" OUTLETS IN ANTICIPATION OF A FUTURE TENANT FIT-UP. TENANT FIT-UP AREAS ARE DESIGNED FOR LIGHT HAZARD ONLY PER ARCHETYPE ARCHITECTS PERMIT DRAWINGS.
THE SPRINKLER SYSTEM HAS BEEN DESIGNED TO MEET ALL APPLICABLE STANDARDS AND CODES REGARDING AN NFPA 13 2007 ed. SYSTEM.



SECTION DETAIL "A"
SCALE: 1/8" = 1'-0"

HIGH TECH FIRE PROTECTION
P.O. BOX 156
MINOT, ME, 04258-0258
TEL:(207) 998-2551 FAX:(207) 998-4187
MAINE LICENSE # 102

ARCHITECT:
ARCHETYPE architects

CONTRACTOR:
WR Wright-Ryan

SPECIAL APPLICATIONS:

LEGEND:
- RN PIPE RISER UP
- DN PIPE RISER DOWN
- STEEL PIPE (WET)
- CPVC PIPE (WET)
- A HYDRAULIC CALC. POINT

DESIGN NOTES:
*ALL PIPING 1 ½" AND LARGER TO BE SCHEDULE 10 STEEL W/ GROOVED FITTING OR CPVC AS INDICATED.
*ALL PIPING 1 ¼" AND SMALLER TO BE SCHEDULE 40 STEEL WITH THREADED FITTING OR CPVC AS INDICATED.
*POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS AND HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13 2007 ed.
*HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13 2007 ed. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS)
*ALL ELECTRICAL WORK TO BE DONE BY OTHERS.
*DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMODATE ACTUAL FIELD CONDITIONS.
*OWNER TO PROVIDE SUFFICIENT HEAT TO PREVENT FREEZING IN WATER FILLED SPRINKLER PIPE AND EQUIPMENT.
*OTHER TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

RELIABLE* MODEL F1FR 56 — 123/200° K=5.6 — 1/2" BRASS UPRIGHT -130 SQ. FT. SPACING-

RELIABLE* MODEL F1FR 56 — 4 /155° K=5.6 — 1/2" BRASS UPRIGHT -130 SQ. FT. SPACING-

RELIABLE* MODEL F1FR 56 — 116/155° K=5.6 — 1/2" SEMI RECESSED WHITE PENDENT -225 SQ. FT. SPACING-

RELIABLE* MODEL F1FR 56 — 3 /200° K=5.6 — 1/2" BRASS HOR. SIDEWALL -196 SQ. FT. SPACING-

RELIABLE* MODEL F3QR — 1 /155° K=5.6 — 1" FLUSH MOUNT HOR. SIDEWALL - DRY -196 SQ. FT. SPACING-

* OR APPROVED EQUAL

TOTAL HEADS ON SHEET: 247

SCALE: 0 1 2 4 8 — SCALE 1/8"=1'-0"

DATE: OCTOBER 18, 2010

DESIGNER: JEREMY FOSS
NICET LEVEL II CERT. #126801
CHECKED BY: E. POULIN (RMS# 515)
NICET LEVEL III CERT. # 108534

LOCATION:
43 BAXTER BLVD.
PORTLAND, MAINE

DRAWING TITLE:
43 BAXTER BOULEVARD
FIRE PROTECTION PLAN
(NFPA 13 2007 ed.)

DRAWING NO.:
FP-1.1