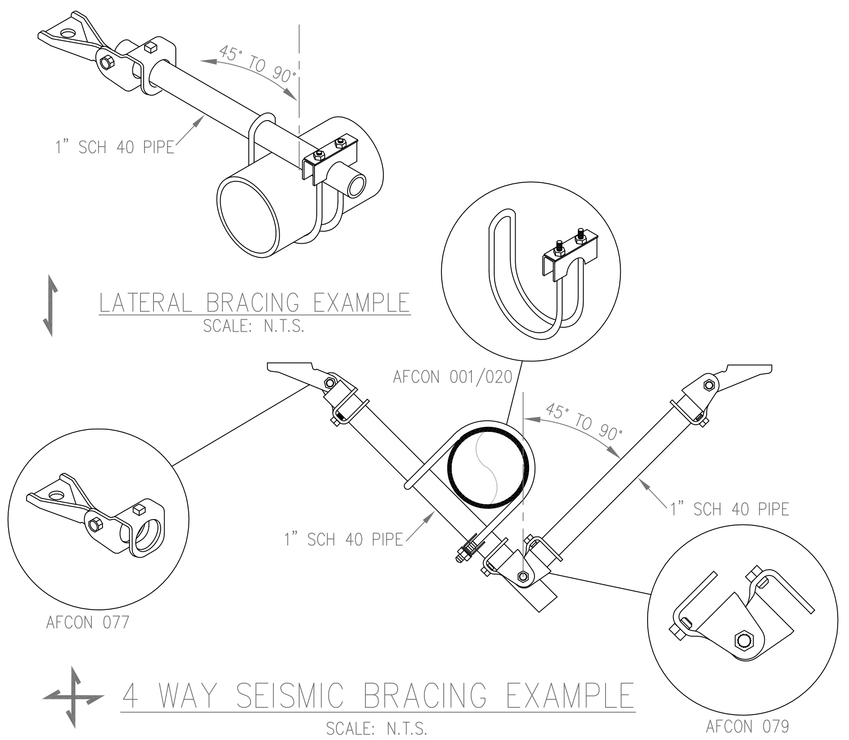
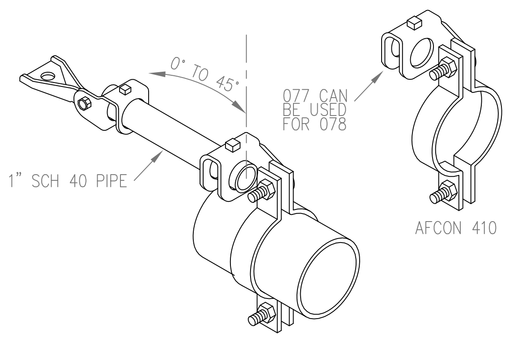


LATERAL BRACING EXAMPLE
SCALE: N.T.S.



LONGITUDINAL BRACING EXAMPLE
SCALE: N.T.S.

4 WAY SEISMIC BRACING EXAMPLE
SCALE: N.T.S.

SEISMIC BRACING NOTES

LATERAL SWAY BRACING SPACED AT A MAXIMUM INTERVAL OF 40' ON CENTER SHALL BE PROVIDED ON ALL FEED AND CROSS MAIN REGARDLESS OF SIZE AND ALL BRANCH LINES WITH A DIAMETER OF 2 1/2" AND LARGER.

LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THEY ARE WITHIN 24 IN. OF THE CENTERLINE OF THE PIPING BRACED LONGITUDINALLY FOR LINES THAT ARE 2 1/2" AND GREATER IN DIAMETER.

INSTALL ALL BRACING 45° TO 90° FROM VERTICAL FOR LATTERAL

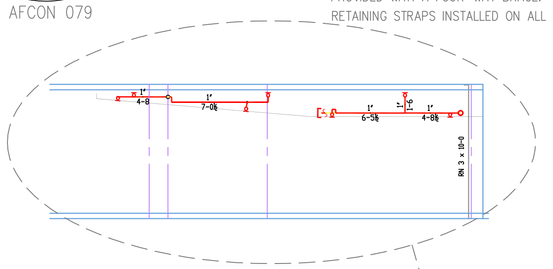
LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80' ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.

LONGITUDINAL BRACES SHALL BE PERMITTED TO SERVE AS LATERAL BRACES WHERE THEY ARE INSTALLED WITHIN 24" OF THE PIPING THAT IS BRACED LATERALLY.

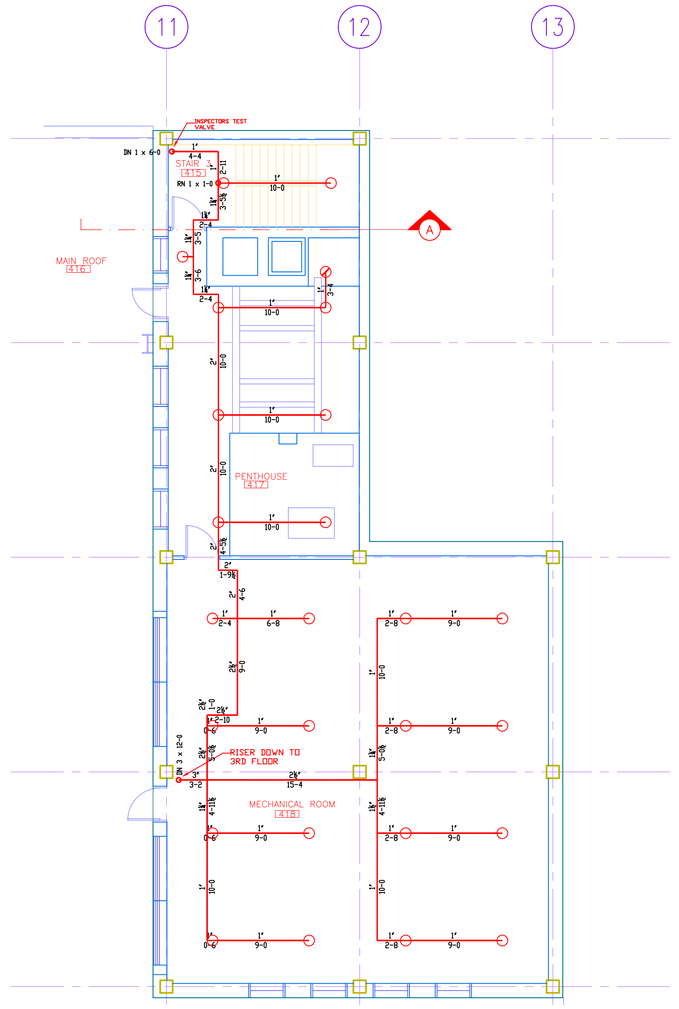
INSTALL ALL BRACING 0° TO 45° FROM VERTICAL FOR LONGITUDINAL

RISERS: TOPS OF RISERS EXCEEDING 3' IN LENGTH SHALL BE PROVIDED WITH A FOUR-WAY BRACE.

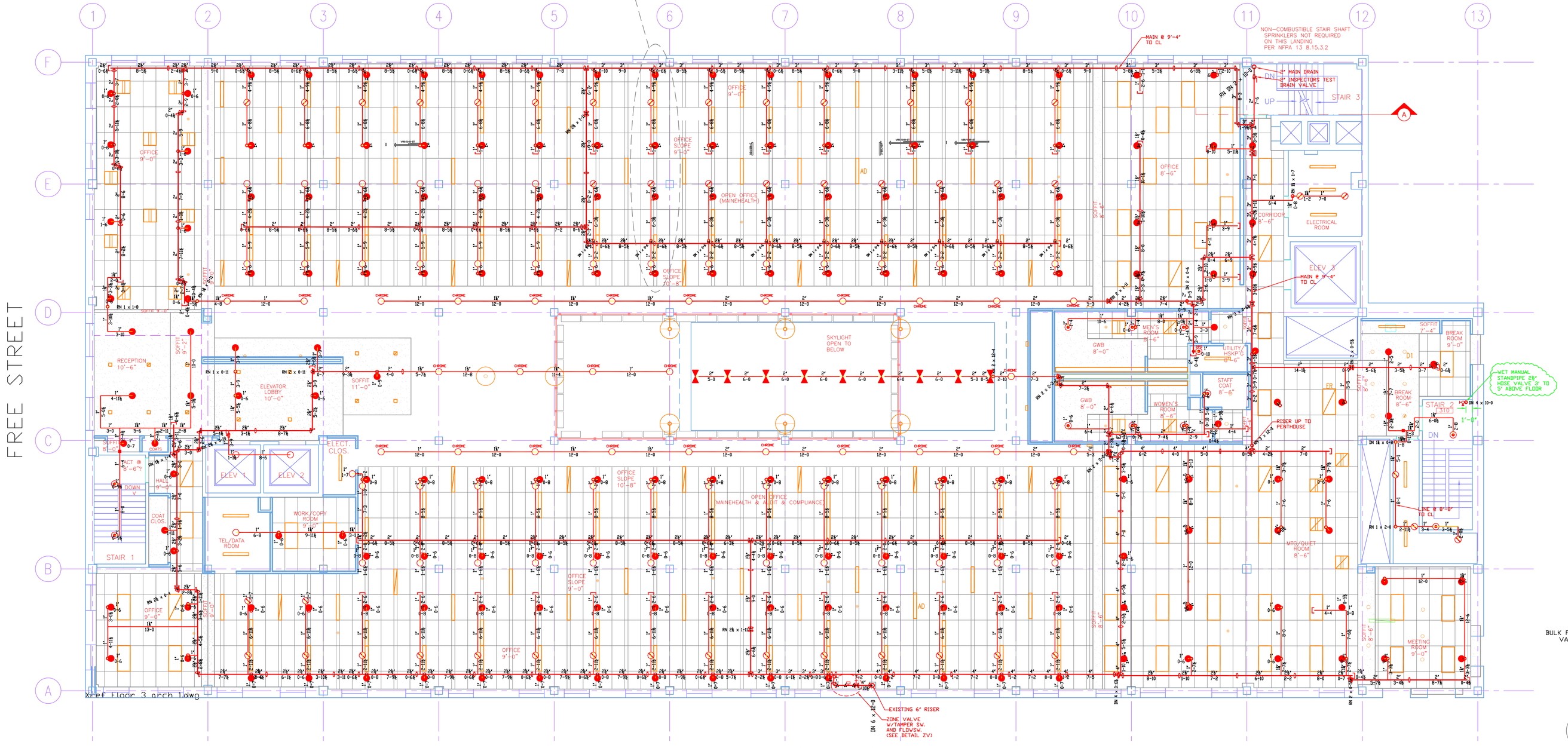
RETAINING STRAPS INSTALLED ON ALL TOP BEAM CLAMPS.



3S CEILING SECTION
SCALE 1/8" = 1'-0"



4 EXISTING MECH. PENTHOUSE (ZONE 3)
TOTAL PROTECTED AREA 1,900 SQ.FT.
SCALE 1/8" = 1'-0"



3 THIRD FLOOR (ZONE 3)
TOTAL PROTECTED AREA 20,800 SQ.FT.
SCALE 1/8" = 1'-0"

Xref Floor 3 accp 1.dwg

PROJECT DESCRIPTION

BUILDING CONST:

THE BUILDING IS 5 LEVELS WITH A SUB-BASEMENT CONSTRUCTED OF CONCRETE AND STEEL FRAMING, FIBERGLASS INSULATION, AND GYP BOARD CONSTRUCTION. STEEL SPRINKLER PIPING THROUGHOUT.

BUILDING OCCUPANCY:

THE BUILDING WAS BUILT & DESIGNED FOR MEDICAL OFFICES AND BUISNESS OFFICES.

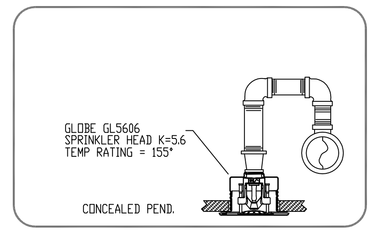
SPRINKLER SYSTEM DESIGN:

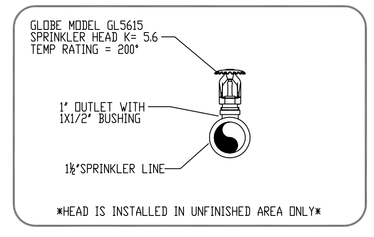
THERE IS A WET SPRINKLER SYSTEM FOR THE COMPLETE BUILDING. ZONED BY FLOOR AND FED BY AN EXISTING 8" RISER. RISER IS FED FROM FREE STREET UNDERGROUND SHOWN ON FP-01 BASEMENT PLAN.

MECHANICAL ROOMS AND STORAGE AREA ARE ORDINARY HAZARD GROUP 1 130 SQ.FT. MAX OFFICES, BATHROOMS AND WAITING AREAS ARE LIGHT HAZARD 225 SQ.FT. MAX

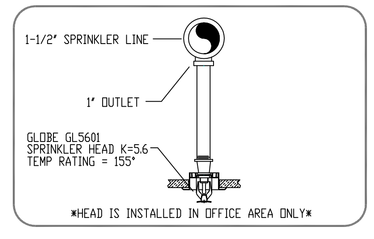
THERE IS A NEW 4" WET MANUAL STAND PIPE BEING INSTALLED IN TOWER #2 AND WILL HAVE 2 1/2" HOSE VALVES ON ALL INTERMEDIATE STAIR LANDINGS.

THE SPRINKLER SYSTEM WAS DESIGNED TO MEET ALL APPLICABLE CODES REGARDING NFPA 13 2007ed. SYSTEM.

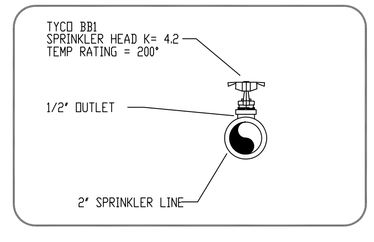


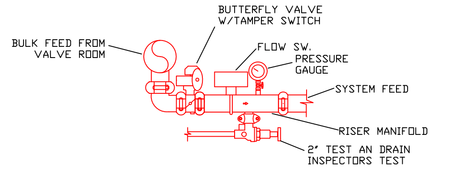


HEAD IS INSTALLED IN UNFINISHED AREA ONLY



HEAD IS INSTALLED IN OFFICE AREA ONLY





ZV ZONE VALVE (ZONE 3)
SCALE: N.T.S.

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

GENERAL CONTRACTOR ON RECORD:
CONSIGLI CONSTRUCTION
(207) 791-2519

REVISIONS:

NO.	DATE:	DESCRIPTION:

SPECIAL APPLICATIONS:

NO.	DESCRIPTION:
1.	FIRE CAULK WALL PENETRATION WHERE REQUIRED TO MEET BUILDING SPECIFIC RATINGS.
2.	HEADS CENTER OF TILE IN ALL ACOUSTICAL CEILINGS

LEGEND:

- RN PIPE RISER UP
- DN PIPE RISER DOWN
- AUXILIARY DRAIN
- PROPOSED PIPE
- SYSTEM RISER
- PIPE PITCH ¼" MAINS ½" LINES
- 4 WAY SWAY BRACING
- 2 WAY SWAY BRACING
- HYDRAULIC CALC. POINT

DESIGN NOTES:

WITH GROOVED DUCTILE IRON FITTING. JLE 40

WITH APPROPRIATE FITTING.

ERS SHALL BE IN ACCORDANCE WITH NFPA 13.

SHALL BE IN ACCORDANCE WITH NFPA 13.

FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)

HIGH TECH FIRE PROTECTIO AT 6" UNI-FLANGE 1' ABOVE F.F. INSIDE OF BUILDING.

DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PREVENT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.

ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.

GLOBE
MODEL GL5606
182 /155°
K=5.6
1/2" WHITE CONCEALED PENDENT

GLOBE
MODEL GL5601
12 /155°
K=5.6
1/2" WHITE PENDENT SEMI-RECESSED ESC.

ON LINE — GLOBE MODEL GL5615 — ON SPRIG
127 /200°
K=5.6
1/2" BRASS UPRIGHT ON SPRIGS OR THE LINE
DEFLECTORS 1" TO 12" BELOW NON-COMBUSTIBLE CEILINGS

TYCO
MODEL BB1 (TY 2180)
9 /212°
K=4.2
1/2" BACK TO BACK ATTIC HEAD ON SPRIG (40' SPAN 7/12 PITCH)
DEFLECTORS 16" TO 22" BELOW PEAK 20' MAX THROW

TOTAL HEADS ON THIS SHEET 330

SCALE: 3 1 0 1 0 3 — 1/8"=1'-0"

DATE: AUGUST 12, 2010

DESIGNER: ED POULIN (RMS# 515)
CHECKED BY: T. FORTIN / J. FOSS
NICET LEVEL: III CERT # 108534

LOCATION:
110 FREE STREET
PORTLAND, ME

DRAWING TITLE:
MAINE HEALTH
THIRD FLOOR/PENTHOUSE
FIRE PROTECTION PLAN
(NFPA 13 2007ed.)

DRAWING NO.:
FP-04