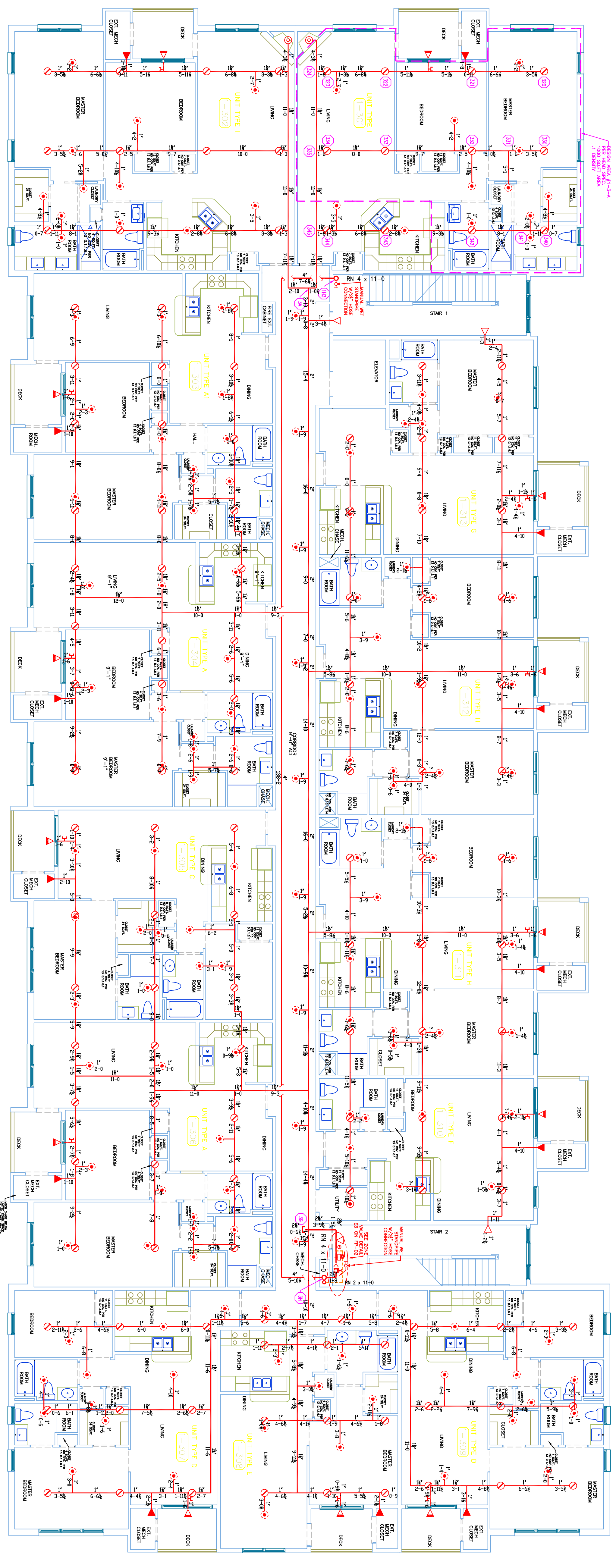
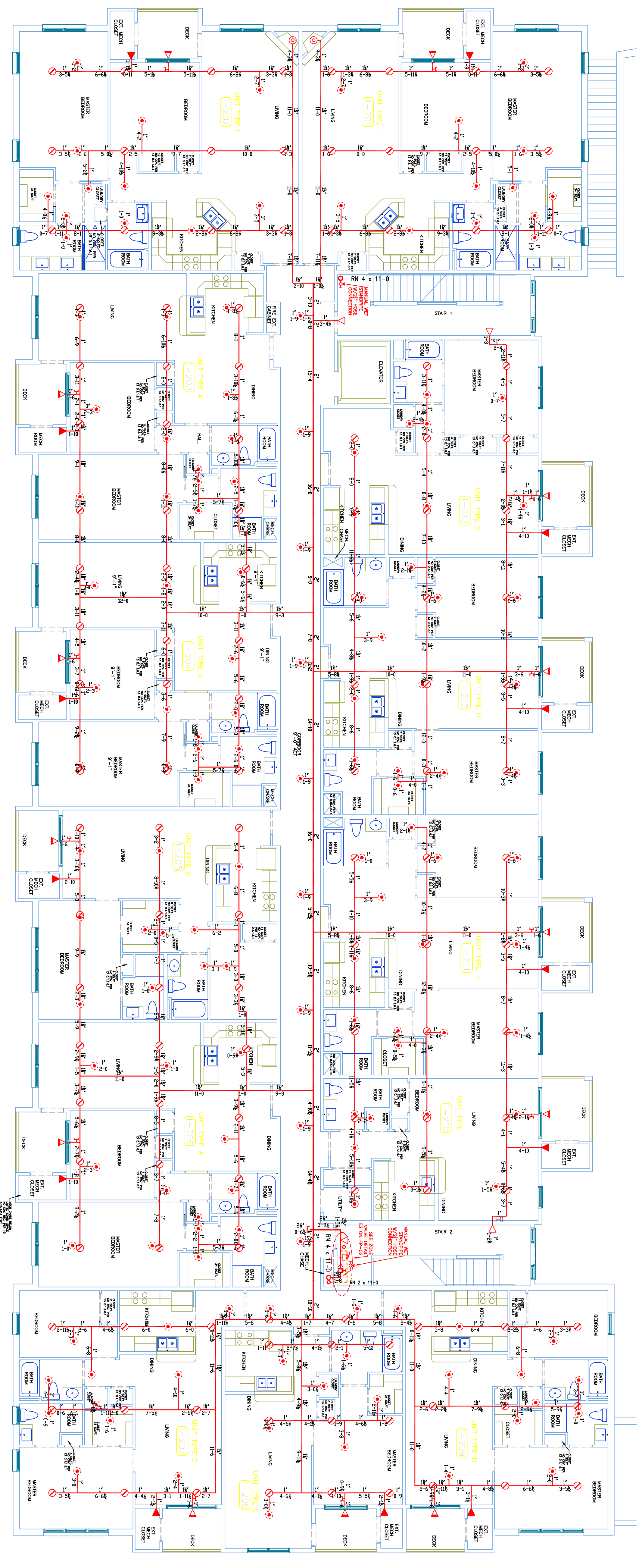


**\*DESIGN AREA NUMBER 1-3-A\***  
 HYDRAULIC DESIGN CRITERIA  
 LOCATION AND DATE OF DESIGN: 40 MIDDLE STREET, PORTLAND, ME 04109  
 AREA OF PROTECTION: 160,000 SQ. FT.  
 DESIGN: 1.2 WET ZONE 1-2 & 1-3  
 HEAD SOURCE: 144 PSIG  
 SYSTEM STANDARDS INCLUDING PRESS. & FLOW: NFPA 13  
 SAFETY WARNING: 10-PSI



1.3 3RD FLOOR BUILDING 1 (WET ZONE 1-3)  
 TOTAL PROTECTED AREA 160,000 SQ. FT.  
 SCALE 1/8" = 1'-0"  
 N



1.2 2ND FLOOR BUILDING 1 (WET ZONE 1-2)  
 TOTAL PROTECTED AREA 160,000 SQ. FT.  
 SCALE 1/8" = 1'-0"  
 N

\*ALL PIPING 2" AND SMALLER ON THIS FLOOR IS CPVC\*

**NOTES FOR NFPA 13 2010ed SYSTEM**

SPRINKLERS SHALL BE INSTALLED IN ALL AREAS.

(1) 3.3.17 SMALL ROOMS  
 A ROOM OF LIGHT HAZARD OCCUPANCY CLASSIFICATION EXCEEDING 600 SQ. FT. THAT ARE ENCLOSED BY WALLS AND A CEILING ARE PERMITTED TO HAVE A HEAD SPACED 9' OFF ONE WALL.

(2) THE MAXIMUM ROOM AREA ON ANY ONE FLOOR TO BE PROTECTED BY SPRINKLERS SHALL BE 10,000 SQ. FT. FOR A LIGHT HAZARD OR ORDINARY HAZARD AREA.

(3) 8.5.1.3.3 ELECTRICAL EQUIPMENT FROM OCCUPATION ROOMS WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:  
 (a) ONE OF THE ELECTRICAL EQUIPMENT IS USED FOR OCCUPATIONAL PROTECTION OR IDENTIFICATION.  
 (b) OCCUPATIONAL PROTECTION IS PERMITTED TO BE STORED IN THE ROOM.  
 (c) NO OTHER SPRINKLERS SHALL BE INSTALLED AT THE ROOM.  
 (d) THE ROOM SHALL NOT BE USED AS A STORAGE AREA FOR EQUIPMENT.

(4) 8.5.1.2.1.1 SPRINKLERS SHALL NOT BE REQUIRED IN A CONCEALED SPACE EVEN WITH A RISKMAN.

(5) 8.5.1.2.1.2 SPRINKLERS SHALL NOT BE REQUIRED IN MULTIFLOOR BUILDINGS WHERE THE CHANGES ARE PRESTANDARD AT EACH FLOOR AND WHERE SUCH PIPE CHANGES SHALL CONTAIN NO SOULDES OR WELDS. THESE CHANGES SHALL BE IDENTIFIED BY LABELS AND PIPE IDENTIFICATIONS AT EACH FLOOR SHALL BE PROMINENT.

(10) 10.1.1.6.1 SPRINKLERS SHALL NOT BE REQUIRED IN LOCKERS, COATERS, WHEN THE AREA OF THE SPACE DOES NOT EXCEED 12 FT. SQ.

**HIGH TECH FIRE PROTECTION**  
 P.O. BOX 156  
 WINTHROP, ME 02528-0156  
 TEL: (207) 998-2581 FAX: (207) 998-4187

NAME LICENSE # 102  
 GENERAL CONTRACTOR ON RECORD- METRIC CORPORATION 55 HENSHAW STREET BOSTON, MA 02135

SPECIAL APPLICATIONS:  
 DRY SYSTEM IN ACCORDANCE WITH STATE OF MAINE DRY PIPE POLICY 1/2" RICH PER 10 ON MAINS AND SPINKLER UNCS.

- RISE/PIR RISE UP OR DOWN
- AUXILIARY DRAIN PIPE
- PROPOSED WET PIPE
- PROPOSED DRAIN PIPE
- SYSTEM RISER
- HYDRAULIC CALC. POINT

**DESIGN & SYSTEM NOTES:**

WITH SPACING 1/2" TO 6" BELOW CEILING TO ALL PIPING 1 1/2" & SMALLER TO BE SCHEDULE 40 PIPE APPROPRIATE FINING UNITS.

POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13. THE DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF RISE/PIR RISE UP, DOWN, AND WET PIPE.)

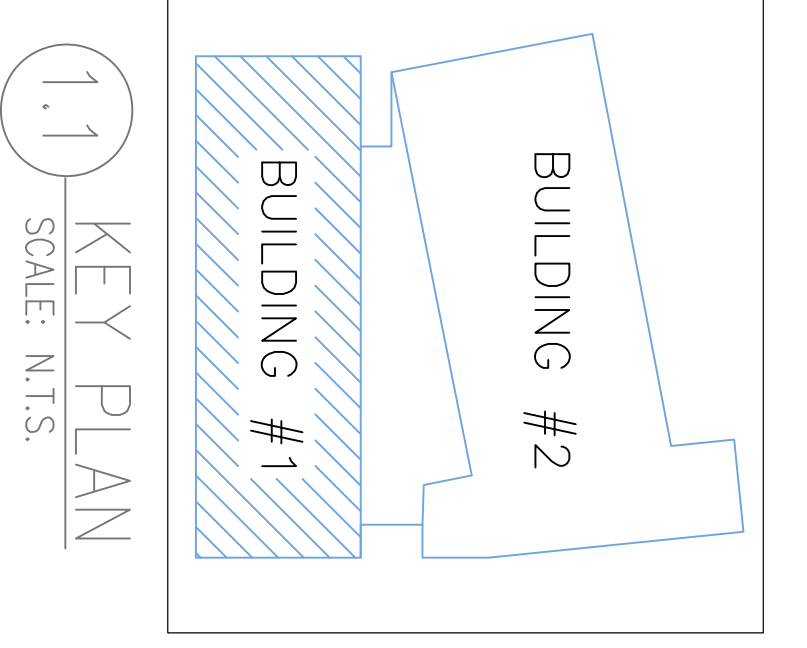
HIGH TECH FIRE PROTECTION IS TO BEGIN WORK AT 6" UNDERGROUND INSIDE OF BUILDING. DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER ACTUAL FIELD CONDITIONS.

OWNERS TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PROTECT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES. OWNER TO BE RESPONSIBLE FOR MAINTAINING THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF RISE/PIR RISE UP, DOWN, AND WET PIPE.)

OWNER IS RESPONSIBLE TO MAINTAIN THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF RISE/PIR RISE UP, DOWN, AND WET PIPE.)

ALL MECHANICAL, ELECTRICAL, AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH ALL ELECTRICAL WORK IS TO BE DONE BY OTHERS.

- WET WALL:**
- GLOBE\* MODEL QLS5610 (4.7/200) (K=5.6)
  - 1/2" BRASS UPRIGHT ON SPRING OR LINE DEFLECTORS 1" TO 6" BELOW COMBUSTIBLE MEMBERS
- VALVE:**
- GLOBE\* MODEL QLS5601 (4.7/155) (K=5.6)
  - 1/2" WHITE RESIDENTIAL PENDENT SEMI-RECESSED ESC. SPACING 16" X 16"
- 1/2" WHITE COMMERCIAL PENDENT SEMI-RECESSED ESC. (UTILITY ROOM AND STAIRS)**



1.1 KEY PLAN  
 SCALE: N.T.S.

DATE: MARCH 1, 2013  
 DESIGNER: ED DOLAN (RMS 515)  
 CHECKED BY: I. BORNHAGEN  
 LOCATION: 40 MIDDLE STREET, PORTLAND, ME  
 DRAWING TITLE: THE BAY HOUSE BLDG. 1 2ND & 3RD FL. (WET ZONE 1-2 & 1-3) FIRE PROTECTION PLAN (NFPA 13 2010ed)  
 DRAWING NO.: FP-03

