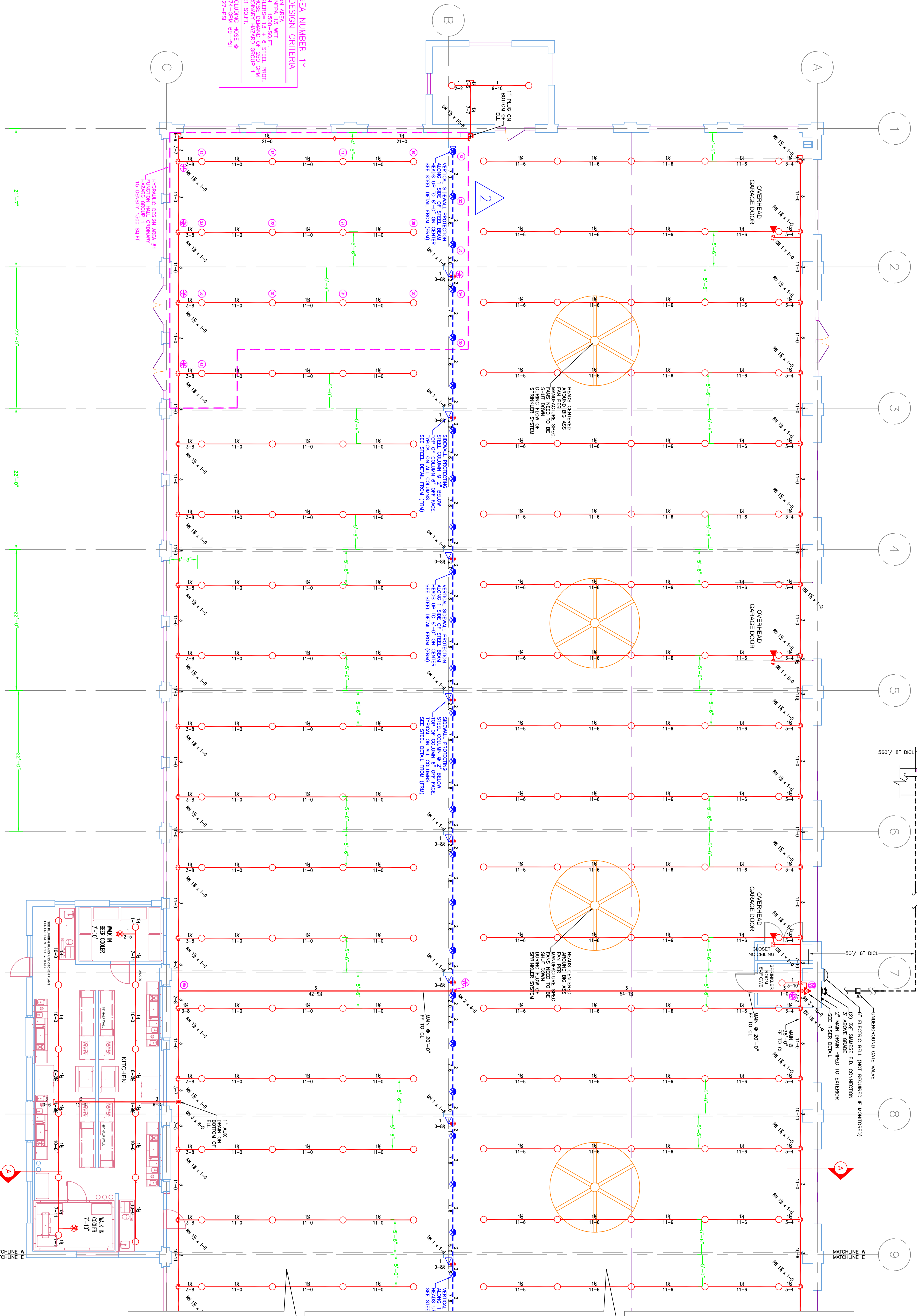
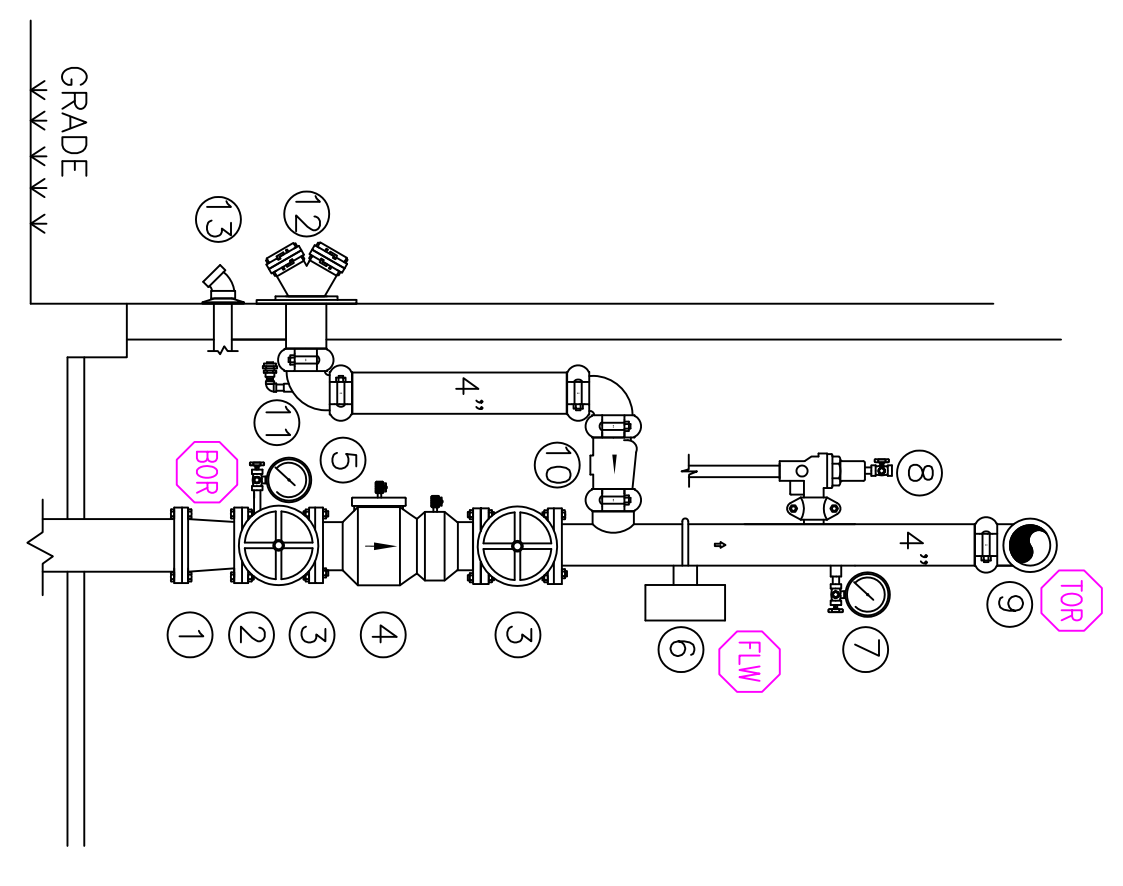
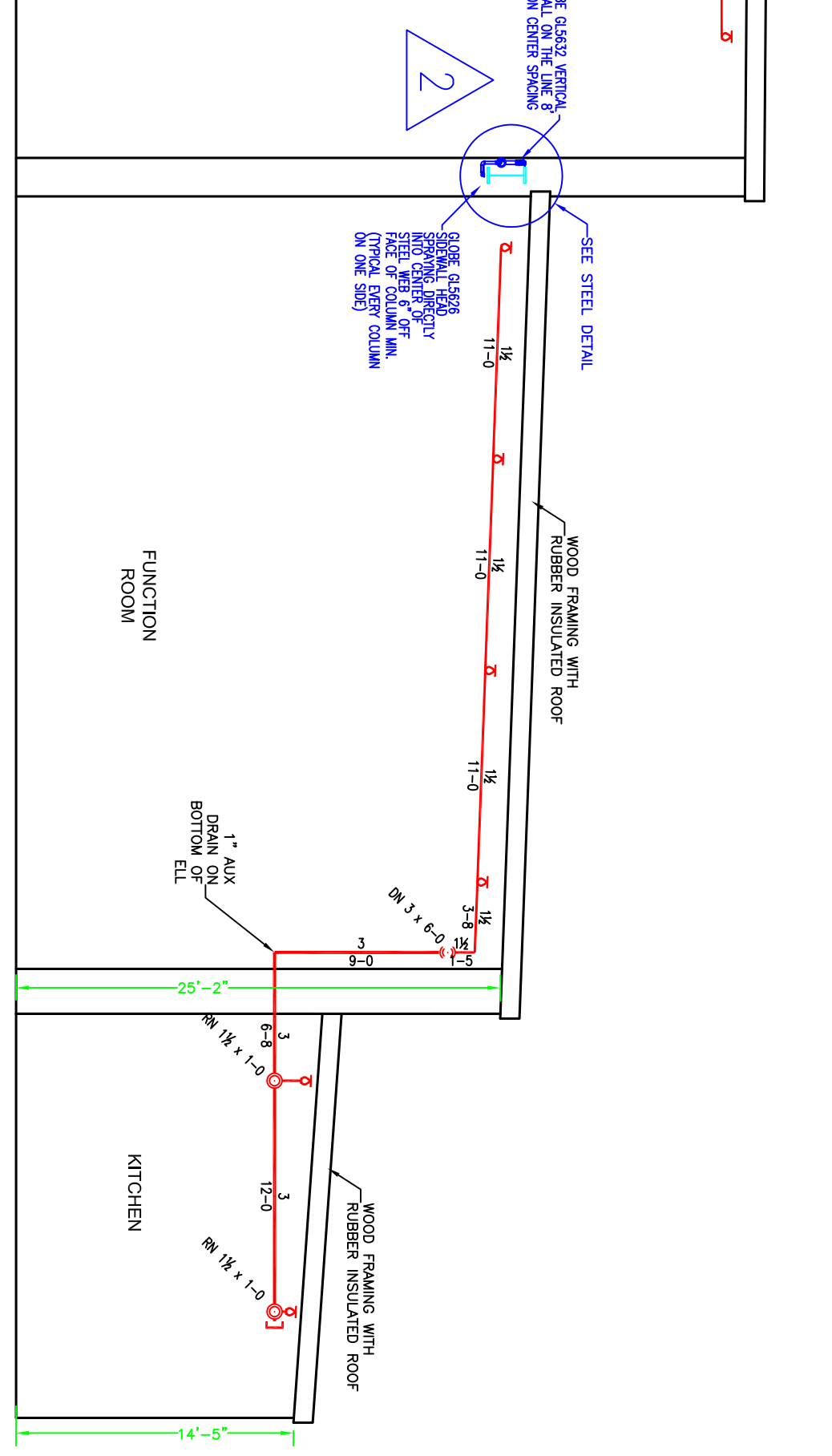
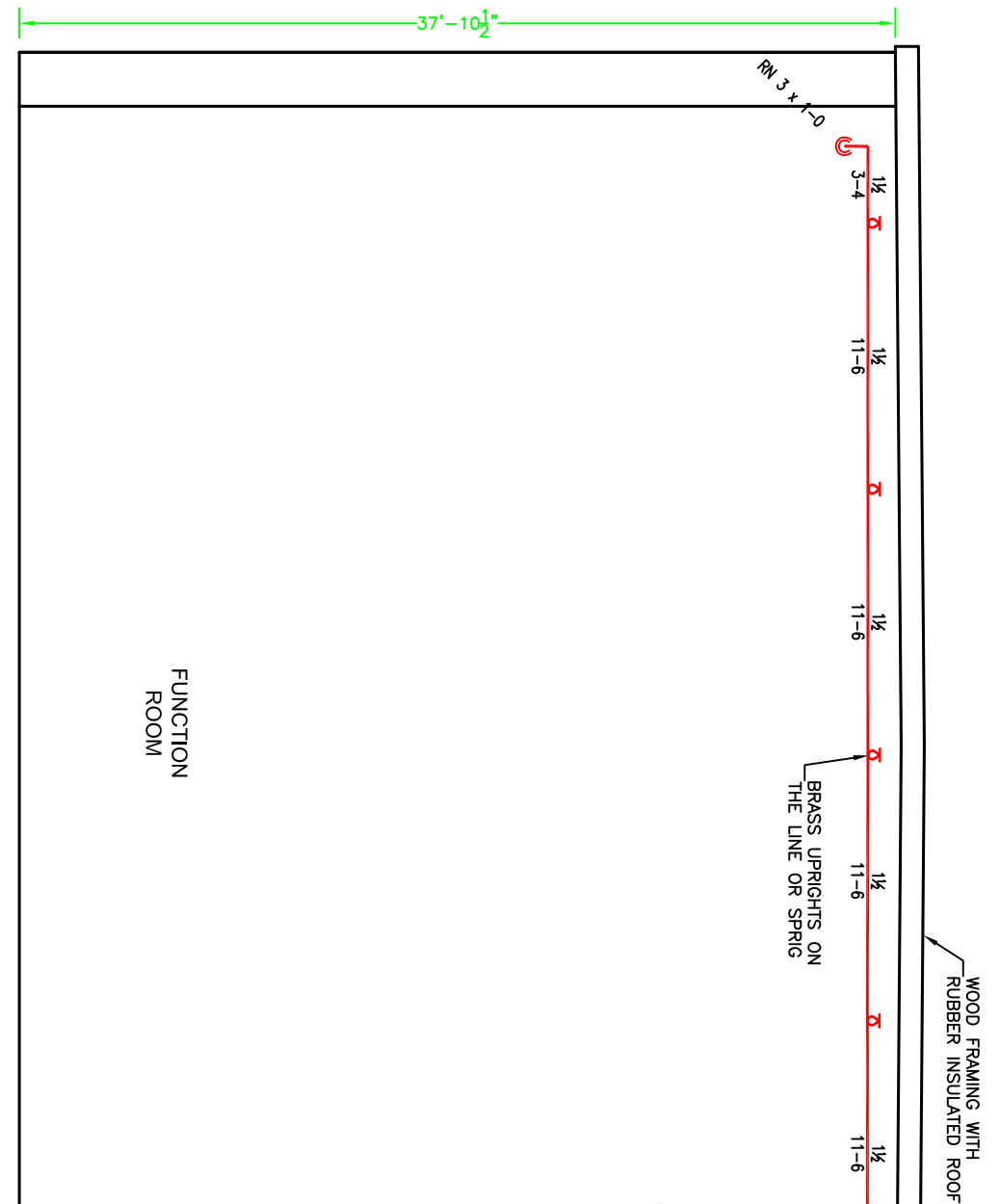


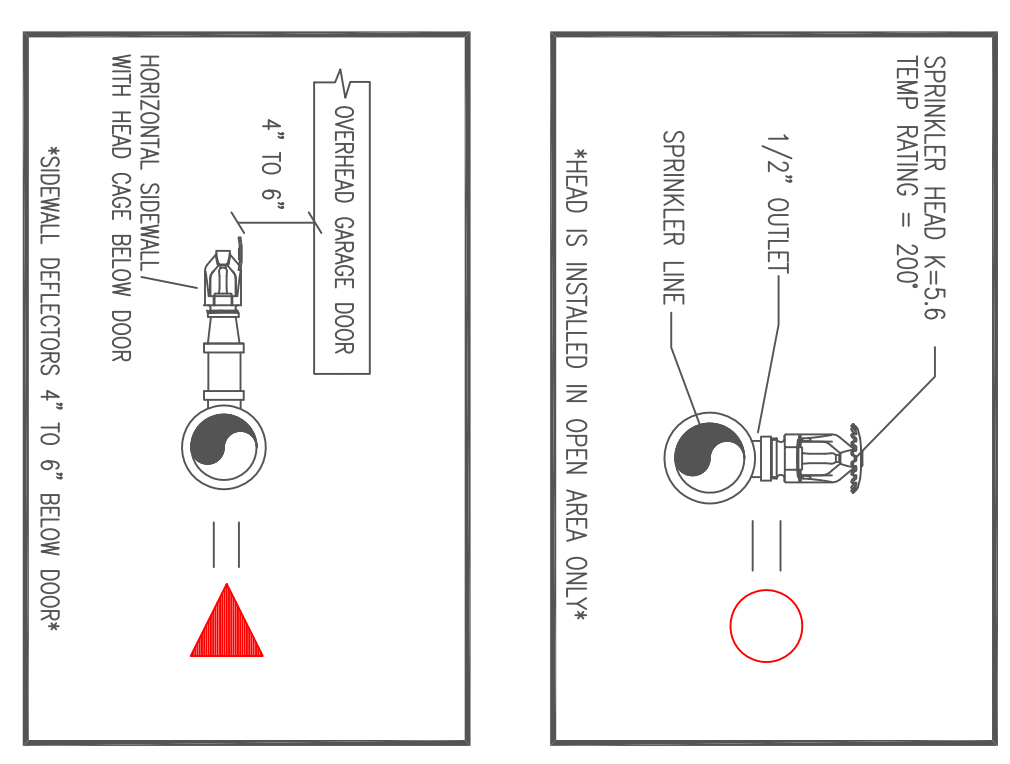
- SPRINKLER RISER COMPONENTS**
- 1" 6" DIA. UNDERGROUND
 - 3" 4" COAXIAL VALVE WITH POTTER OSSU-1 TAMPER SWITCH
 - 4" WILKINS 300ST BACKFLOW PREVENTER
 - SOFTENING PRESSURE GAUGE
 - SYSTEM SIDE PRESSURE GAUGE
 - WEST SIDE PRESSURE GAUGE
 - WEST SIDE PRESSURE GAUGE
 - 4" SWING CHECK VALVE FOR F.D.C. FEED 48" MINIMUM FROM EXTERIOR
 - 1/2" AUTOMATIC BALL VALVE ABOVE GAUGE (SEE PLAN FOR LOCATION)
 - 2" MAIN DRAIN DISCHARGE TO EXTERIOR (SEE PLAN FOR LOCATION)



DESIGN AREA NUMBER 14
HYDRAULIC DESIGN CRITERIA
TYPE OF SYSTEM: WET
NUMBER OF STORIES: 3
HEAD LOSS: 2.0 FT
FLOW RATE: 1.5 GPM
COEFFICIENT OF RESISTANCE: 0.05
COEFFICIENT OF FRICTION: 0.02
COEFFICIENT OF VELOCITY: 0.01
COEFFICIENT OF MINOR LOSS: 0.01

1 WEST SECTION (WET)
TOTAL PROTECTED AREA 19,200 SQ.FT.
SCALE 1/8" = 1'-0"

1.2 SPRINKLER HEAD DETAIL
SCALE: N.T.S.



1.3 RISER DETAIL
SCALE: N.T.S.

PROJECT DESCRIPTION

BUILDING CONSIST:
THE BUILDING IS A LEVEL OF NEW ASSEMBLY OCCUPANCY CONSTRUCTED OF WOOD-STEEL-BRICK FRAMING, FIBERGLASS INSULATION, AND GYP BOARD TYPE 3 CONSTRUCTION.
BUILDING OCCUPANCY:
THE BUILDING IS A CHANGE OF USE TO NEW ASSEMBLY OCCUPANCY AS SHOWN ON PLAN.
SPRINKLER SYSTEM DESIGN:
NEW WET SYSTEM FOR THE ENTIRE BUILDING IN ACCORDANCE WITH NFPA 13 2016ed.
THE BUILDING USE GROUP IS ORDINARY HAZARD GROUP 1. GC TO PROPERLY INSULATE AROUND SPRINKLER PIPING TO PREVENT WATER FILLED PIPE FROM FREEZING.
THE SPRINKLER SYSTEM IS DESIGNED TO MEET APPLICABLE CODE REQUIREMENTS AN NFPA 13 2016ed.

DRAWING NO.:
FP-01 REVISED

DATE: DECEMBER 30, 2016
DESIGNER: ED BOWEN (GMS# 515)
CHECKED BY: AL FOSS

LOCATION:
1 THOMPSONS POINT
PORTLAND, ME

DRAWING TITLE:
BRICK SOUTH
AT THOMPSONS POINT
(MATCHLINE-W)
FIRE PROTECTION PLAN
(NFPA 13 2016ed.)

LEGEND:
○ NEW PIPE RISEN UP OR DOWN
○ PROPOSED SPRINKLER PIPE
- - - STEEL PROTECTION PIPE
▲ SYSTEM RISER
- - - PIPE PITCH 1/4" MANSARD LINES
② HYDRAULIC CALC. POINT

DESIGN & SYSTEM NOTES:
WITH PERMITTED 1/2" RISER PIPE SCHEDULE TO ALL PIPING 1 1/2" & SMALLER TO BE SCHEDULE 40 WITH APPROPRIATE FINISHING AND USE OF SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH NFPA 13.
POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13. SET BEEN DONE IN ACCORDANCE WITH NFPA 13. SET PLANS SHALL BE IN ACCORDANCE WITH NFPA 13.
HIGH TECH FIRE PROTECTION IS TO BE ON WORK AT 6" MAIN 7" AFF NEAR OF BUILDING.
DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER ACTUAL FIELD CONDITIONS TO ACCOMMODATE OWNERS TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PROTECT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.
OWNER IS RESPONSIBLE TO MAINTAIN THE SPRINKLER OF WATER-BASED FIRE PROTECTION SYSTEMS AND/LINES, CORES AND BRACKETS, AND/OR LOCAL OWNERS TO COORDINATE THEIR WORK WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONNECTION.
ALL ELECTRICAL WORK IS TO BE DONE BY OTHERS.

HEAD LEGEND:
GLOBE*
MODEL: QLS615
K=5.6
1/2" BRASS UPRIGHT
ON THE LINE
DEFLECTORS 1" TO 6" BELOW
COMBUSTIBLE CEILING

GLOBE*
MODEL: QLS626
K=5.6
1/2" BRASS HORIZONTAL
SIDEWALL WITH CABE
BELOW OVERHEAD DOOR

GLOBE*
MODEL: QLS635
K=5.6
1" TYPICAL PRESENT CHROME
IN COULTERS

2
1/2" VERTICAL SIDEWALL
ON TOP OF COLUMN
SIDEWALL FOR COLUMNS
MODEL: QLS626
K=5.6
1/2" BRASS HORIZONTAL
SIDEWALL WITH CABE
BELOW OVERHEAD DOOR