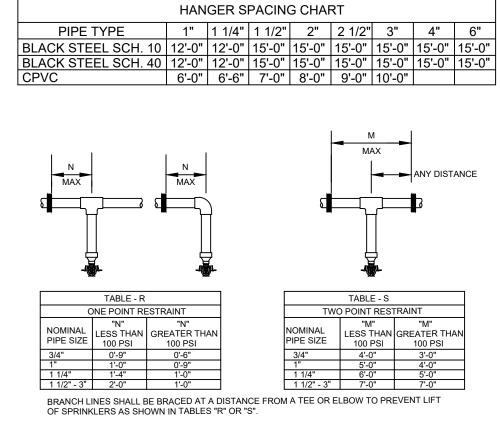
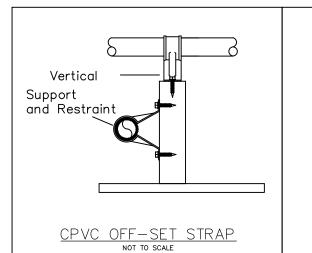
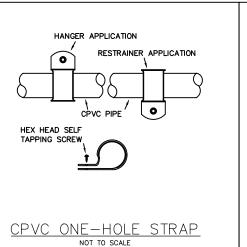
INTERSTITIAL SPACE NOTE:

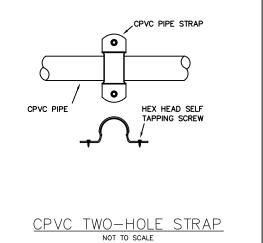
ENTIRE INTERSTITIAL CAVITY TO BE FILLED W/ NON-COMBUSTIBLE INSULATION BY G.C.

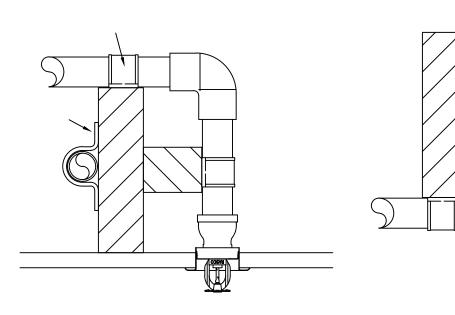
PER NFPA #13, SECTION 8.15.1.2.7 SPINKLER PROTECTION IS NOT REQUIRED





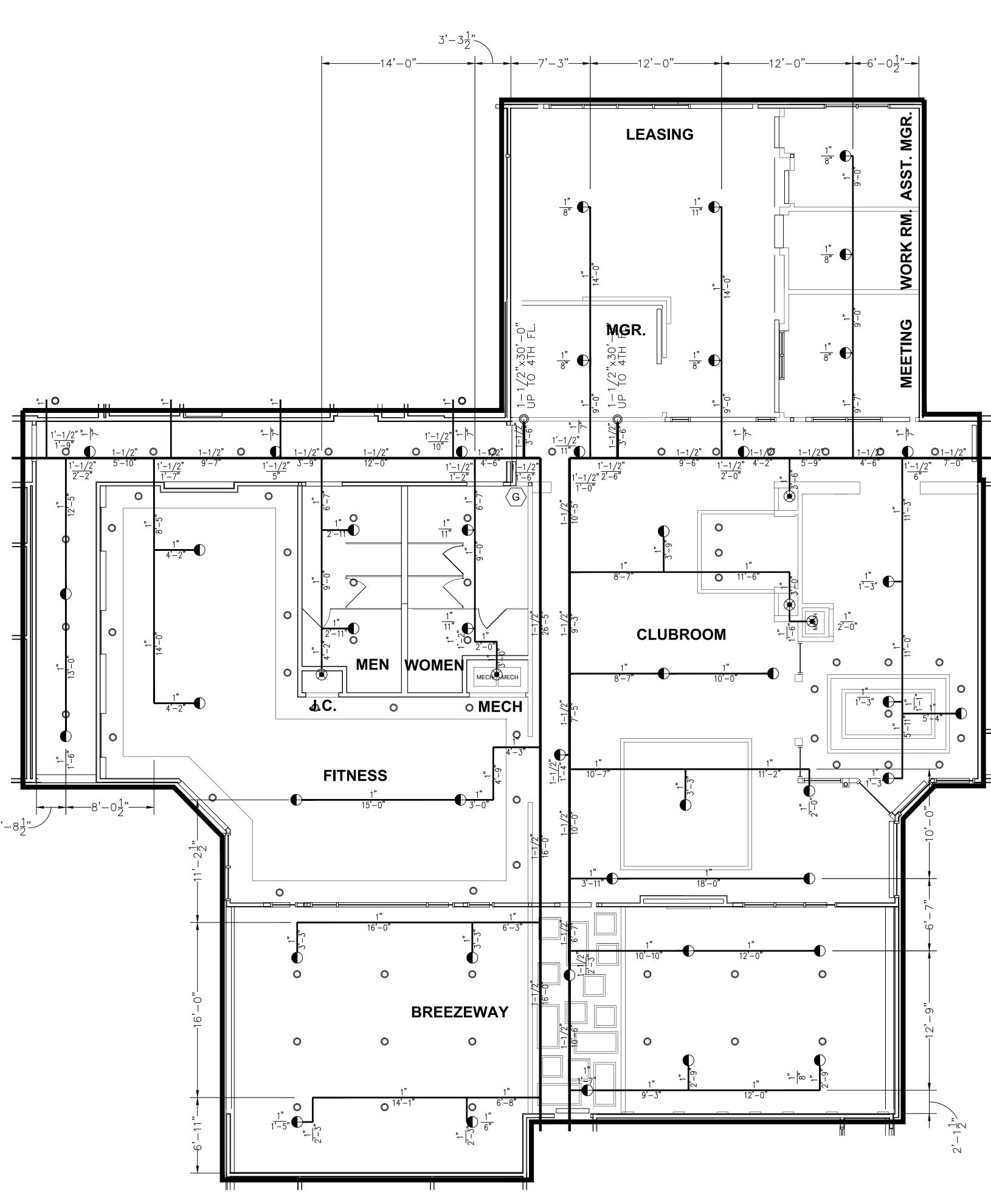


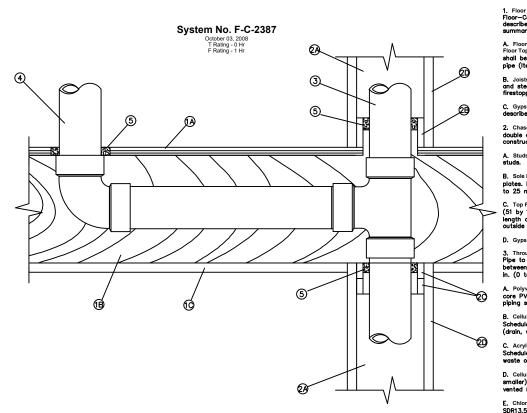




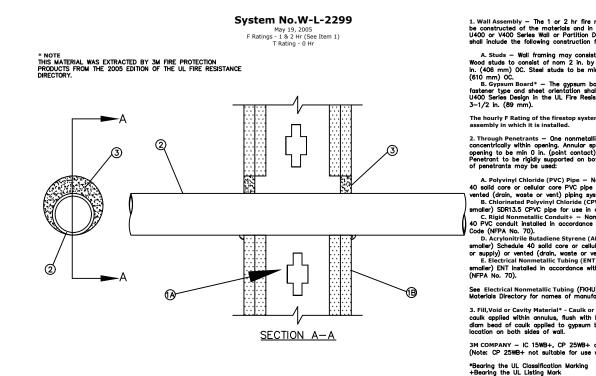
SPRINKLER HEAD SPACING CHART

AREAS	SPRINKLER HEAD	MAX. SPACING	MAX. DISTANCE OFF WA
RESIDENTIAL - CORRIDOR	TYCO EC-8 8.0K RECESSED PENDENT	16' x 16' = 256 SQ. FT.	8'-0"
RESIDENTIAL - MECHANICAL / ELECTRIC (ALL FLOORS)	TYCO FRB 5.6K RECESSED PENDENT	15' x 15' = 225 SQ. FT.	8'-0"
RESIDENTIAL - UNITS LEVELS 1 - 5 (ROOMS)	TYCO SERIES LFII 5.8K RESIDENTIAL PENDENT	18' x 18' = 324 SQ. FT.	9'-0"
RESIDENTIAL - UNITS LEVELS 1 - 5 (EXTERIOR BALCONY)	GLOBE GL - 1" NPT 5.6K RESIDENTIAL DRY SIDEWALL	18' x 18' = 324 SQ. FT.	9'-0"

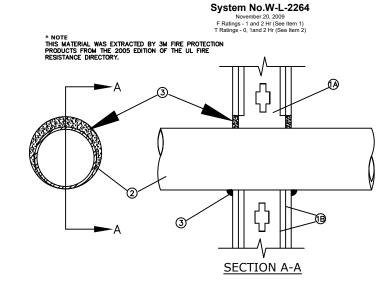




 Floor-Assembly — The 1 hr fire rated wood truss or combination wood and steel trust Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory, as summarized below: D. Gypsum Board - Min ½ in. thick rated or nonrated gypsum board. C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 3 In. (76 mm) diam (or smaller)
Schedule 40 solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. B. Cellular Core Polyvinyl Chloride (ccPVC) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. D. Cellular Core Acrylonitrile Butadiene Styrene (ccABS) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.



See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.



1. Wall Assembly — The 1 and 2 hr fire rated gypsum board/stud wall 1. Wall Assembly — The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series
Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs.

Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 in.) io in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Diam of opening shall be 1 in. ∍ wall assembly in which it is installed.

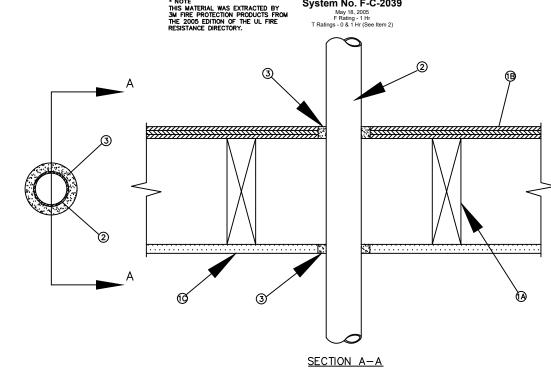
Through Penetrants — One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system The annular space between the pipe or conduit and pipe or conduit and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 5/8 in. (16 mm) Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polywiny Chioride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller). Schedule
40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented supply) or vented (croin, waste or vent) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 In. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems. systems.
C. Rigid Nonmetallic Conduit+ — Nom 2 in. (51 mm) diam (or smaller). Schedule
40 PVC conduit installed in accordance with the National Electrical Code 7.0).

D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The hourly 1 stating of the firestop system is 0 Hr when pipes are used in ne nouny i reating or the intestop system is 0 mr witne pipes are used in ented (drain, waste or vent) piping systems. The hourly IT staling of the firestop ystem is equal to the hourly fire rating of the wall assembly in which it is installed when pipes are used in closed (process or supply) piping systems. . Fill, Vold or Cavity Materials* - Caulk or Sealant — Min thickness of 5/8 in. (16 mm) of caulked applied within annulus between pipe or conduit and periphery of the opening, flush with but surfaces of wall assembly. At the point contact location between pipe or conduit and gypsum board, a min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit was a second of the seco conduit/gypsum board interface on both surfaces of wall assembly.

3M COMPANY — FireDam 150+, CP 25WB+, IC 15WB+ caulk or FB-3000 WT sediant. (Note: CP 25WB+ and FireDam 150+ not suitable for use with CPVC pipes.) *Bearing the UL Classification Mark



1. Floor Assembly — The 1 hr fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory, as summarized below: A. Joists — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members' with bridging as required and ends firestopped.

B. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture' as specified in the individual Floor—Ceiling Design. Diameter of opening shall be 5/8 in. (16 mm) larger than the outside diam of nonmetallic pipe or conduit (Item 2).

C. Gypsum Board' — Nom a 4 ft (122 cm) wide by 5/8 in. (16 mm) thick, screw—attached to furring channels.

Diameter of opening shall be 5/8 in. (16 mm) larger than the outside diam of nonmetallic pipe or conduit (Item 2). 1.1 Chase Wall (Optional, not shown) — The through penetrants (Item 2) may be routed through a 1 hr fire—rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs - Nom 2 in. by 6 in. (51 mm by 152 mm) or double nom 2 in. by 4 in. (51 mm by 102 mm) lumber studs.

B. Sole Plate — Norm 2 in. by 6 in. (51 mm by 152 mm) or parallel 2 in. by 4 in. (51 mm by 102 mm) lumber plates, tightly butted.

C. Top Plate — The double top plate shall consist of two norm 2 in. by 6 in. (51 mm by 152 mm) or two sets of parallel 2 in. by 4 in. (51 mm by 102 mm) lumber plates, tightly butted. Diameter of opening shall be 5/8 in. (16 mm) larger than outside diam of nonmetallic pipe or conduit.

D. Gypsum Board — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design. 2. Through Penetrants — One nonmetallic pipe, tubing or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe, tubing or conduit and edge of opening to be min 0 in. (point contact) and max 5/8 in. (0 mm to max 16 mm). Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes, tubing or conduit may be used: A. Polyvinyl Chloride (PVC) Pipe – Nom 1–1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. Rigid Nonmetallic Conduit++ – Nom 1–1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

C. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 1–1/2 in. (38 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. Gellular Core Polyvinyl Chloride (ccPVC) Pipe – Nom 1–1/2 in. (38 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

E. Acrylonitrile Butadiene Styrene (cABS) Pipe – Nom 1–1/2 in. (38 mm) diam (or smaller) Schedule 40 cellular Core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

F. Cellular Core ACPJointrile Butadiene Styrene (cABS) Pipe – Nom 1–1/2 in. (38 mm) diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

G. Crosslink Polythylene (PGX) Tube – Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tube for use in closed (process or supply) or vented (drain, waste or vent) piping system. G. Crosslink Polythylene (PCX) Tube — Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tube for use in closed (process or supply) plping system.

H. Electrical Nonmetallic (ENT) Tubing+ — Nom 1-1/4 in. (32 mm) diam (or smaller) corrugated wall electrical nonmetallic constructed of polyvinyl chloride. ENT to be installed as a complete system with all terminations in junction boxes, outlet boxes or other approved enclosures as specified in the National Electrical Code.

3M COMPANY - CP 25WB+, IC 15WB+ caulk, FB-3000 WT sealant or MP+ Stix putty (Note: CP 25WB+ not suitable for use with CPVC pipes.)

*Bearing the UL Classification Marking ++Bearing the UL Listing Mark

1ST FLOOR CLUBHOUSE / BREEZEWAY

SCALE: 1/8"=1'-0"

INSTALL PIPING @ 11'-0" (AFF

- SPRINKLER HEADS ARE LOCATED AS NEEDED, HOWEVER, COORDINATION NEEDS TO OCCUR TO FACILITATE INSTALLATION
- THIS SCENARIO OINLY OCCURS ON THE 1ST FLOOR IN THIS AREA
- PIPING MODIFICATIONS CAN / WILL BE MADE UPON COMPLETION OF COORDINATION
- ANY SUPPORTING HYDRAULIĆ CALCULATIONS WILL BE PROVIDED AT THAT TIME

• NEW STRUCTURAL CHANGES HAVE OCCURED — CREATING AN OBSTRUCTION FOR PIPE INSTALLATION FOR THIS AREA

HOME

SCALE: AS NOTED **DATE:** 10/30/2018

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