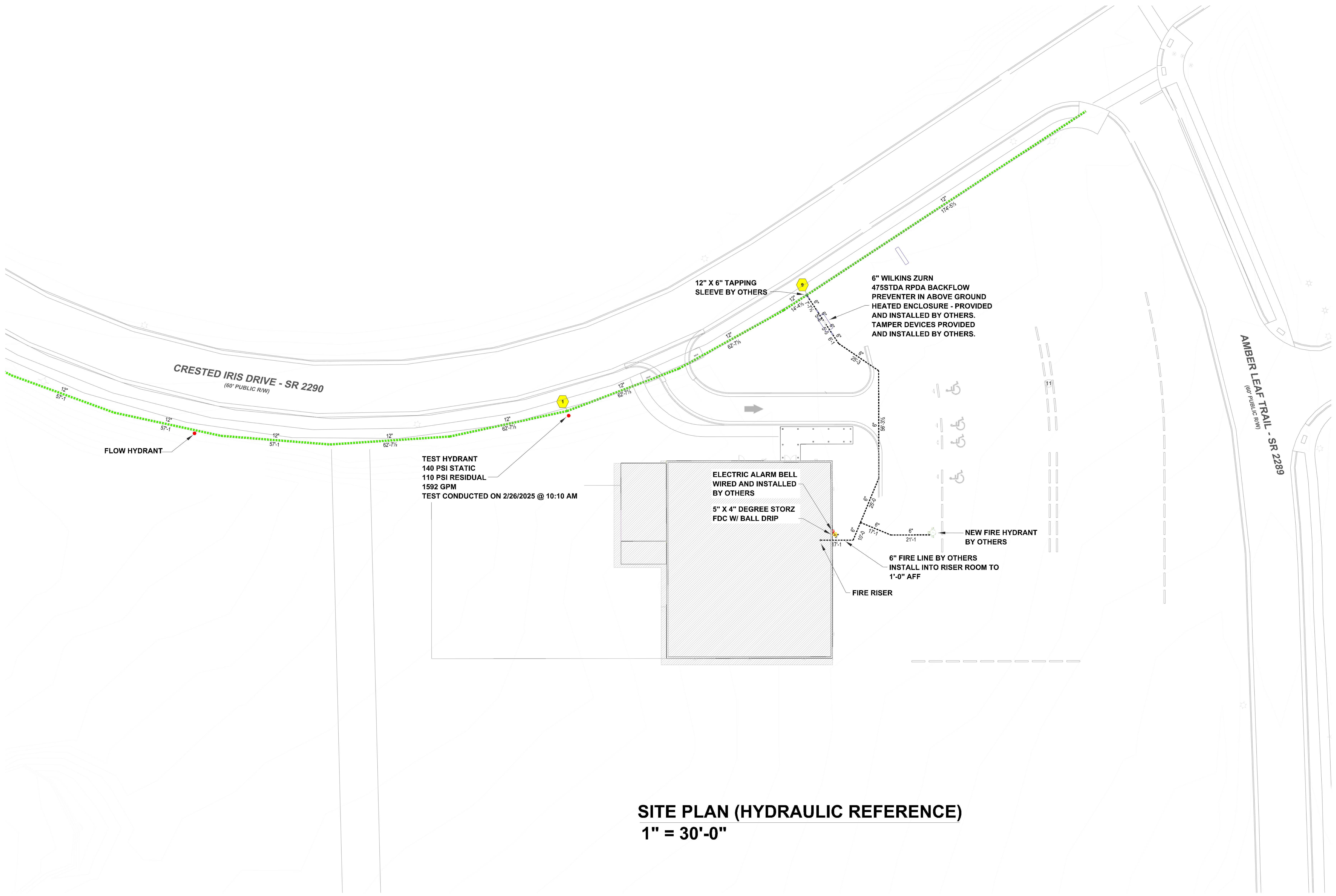



## SITE PLAN (HYDRAULIC REFERENCE)
1" = 30'-0"

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | CAPE FEAR VALLEY HEALTH - HARNETT HEALTH DOROTHEA DIX PSYC UNIT | | | System: | WET SYSTEM |
| Project Street Address: | CRESTED IRIS DRIVE, LILLINGTON, NC 27546 | | | Sys. Sq. Ft: | 8,843 |
| Suite: | N/A | Floor#: | 1 | Ceiling Height: | 9'-0" |
| Designed By: | REGIONAL FIRE SERVICES OF NC | Phone: | 919-212-2722 | Total Bldg. Hgt.: | 16'-2" |
| Occupancy: | I-2 | Hazard: | LIGHT & ORDINARY HAZARD | | |

| | SYSTEM # 1 |
|---|---|
| Design Method | DENSITY/AREA |
| Design Area # | 1 |
| Location | PATIENT ROOMS/CORRIDOR |
| Type of System | WET |
| Hazard Class | LIGHT HAZARD |
| Criteria From | AREA DENSITY CURVE |
| Design Area (sq.ft.) | 972 |
| Sprinkler Spacing(sq.ft.) | 225' MAX |
| Density | .10 GPM / SQ FT. |
| K-factor | 5.6 |
| Hose Allowance | 100 |
| # Design Sprinklers | 10 |
| Special Application Spk. | N/A |
| Requirement @ BOR | |
| G.P.M. Req'd | 159.98 |
| P.S.I. Req'd | 49.194 |
| Requirement @ TEST | |
| GPM Required | 259.98 |
| PSI Required | 61.195 |
| Safety factor @ Test | 77.755 (56%) |
| Dry Sys. Vol. (gal) | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Tested by | REGIONAL FIRE SERVICES OF NC | Date/Time | 2/26/2025 @ 10:10 AM | Pressure Hydrant | -- |
| Hydrant Elevation | 180' | Flow Hydrant # 1 | -- | Flow Hydrant #2 | -- |
| Static (PSI) | 140 | Residiual (PSI) | 110 | Flow (gpm) | 1592 |
| Copy of Water Test Data Included with Calculation | | | | | |

# Hydrant Flow Test Report

**Test Date** 2/26/2025 **Test Time** 10:10 AM

**Location**
Crested Iris Drive

**Tested by**
Thomas Crowder & Ajith Zacharias
Regional Fire Services of NC, LLC
Witnessed by: Apex Fire Department

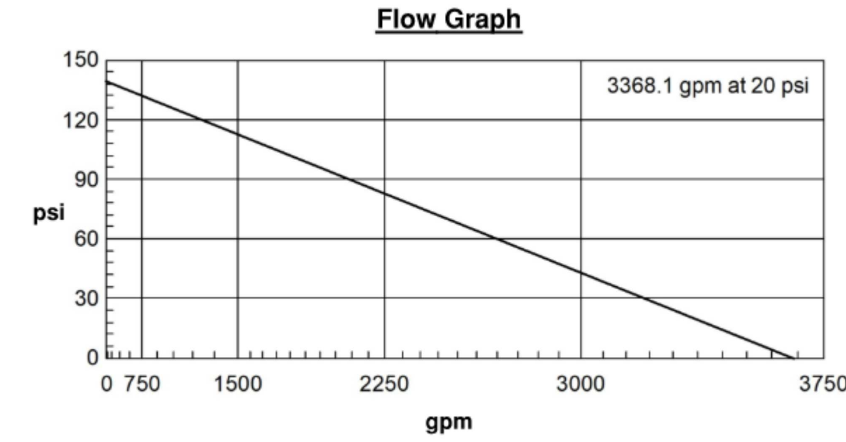
**Notes**
Witnessed by Harnett Regional Water Department

**Read Hydrant**
140 psi **static pressure**
110 psi **residual pressure**
**hydrant elevation**

**Flow Hydrant(s)**

| Outlet | Elev | Size | C | Pitot Pressure | Flow |
|---|---|---|---|---|---|
| #1 | | 2.5 | .9 | 90 | 1592 gpm |

**Flow Graph**




GENERAL NOTES

SCOPE OF WORK - TO DESIGN AND INSTALL A WET SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA-13, AND LOCAL AUTHORITY.

F.P.C. WORK START AT 6" FLANGE PROVIDED BY SITE CONTRACTOR. ALL UNDERGROUND PIPING, ELECTRICAL WORK, PAINTING, PATCHING, ACCESS PANELS FOR CONCEALED SPRINKLER VALVES, AND FIRE ALARM SHALL BE PROVIDED BY OTHERS.

ALL WET SYSTEM BRANCH PIPING 1" - 2" TO BE SCH 40 BLACK STEEL WITH DI BLACK THREADED FITTINGS OR GROOVED DUCTILE FITTINGS UNLESS NOTED OTHERWISE.

ALL WET SYSTEM MAIN PIPING 2" - 6" TO BE SCH. 10, BLACK STEEL GROOVED AND JOINED BY GROOVE TYPE FITTINGS.

ALL HANGER ASSEMBLIES SHALL UTILIZE UL/FM LISTED COMPONENTS AND COMPLY WITH NFPA 13.

ALL CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED. ALL ELECTRICAL CONNECTIONS TO BE MADE BY AN ELECTRICIAN.

ALL INTERIOR PIPING SHALL BE HYDRAULICALLY TESTED AT 200 PSI FOR 2 HOURS.

IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE ADEQUATE HEAT TO PREVENT THE FIRE PROTECTION SYSTEM FROM FREEZING.

AUXILIARY DRAINS SHALL BE PROVIDED FOR TRAPPED SECTIONS OF THE SPRINKLER SYSTEM EXCEEDS 5 GALLONS.

ADEQUATE SUPERVISION IS REQUIRED TO BE PROVIDED ON CONTROL VALVES TO SOUND AT LEAST A LOCAL TROUBLE ALARM WHEN THE SYSTEM IS DEACTIVATED AND A TROUBLE SIGNAL BE SENT TO A CENTRAL STATION.

READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF CROSS MAINS IN COMPLIANCE W/ NFPA 13.

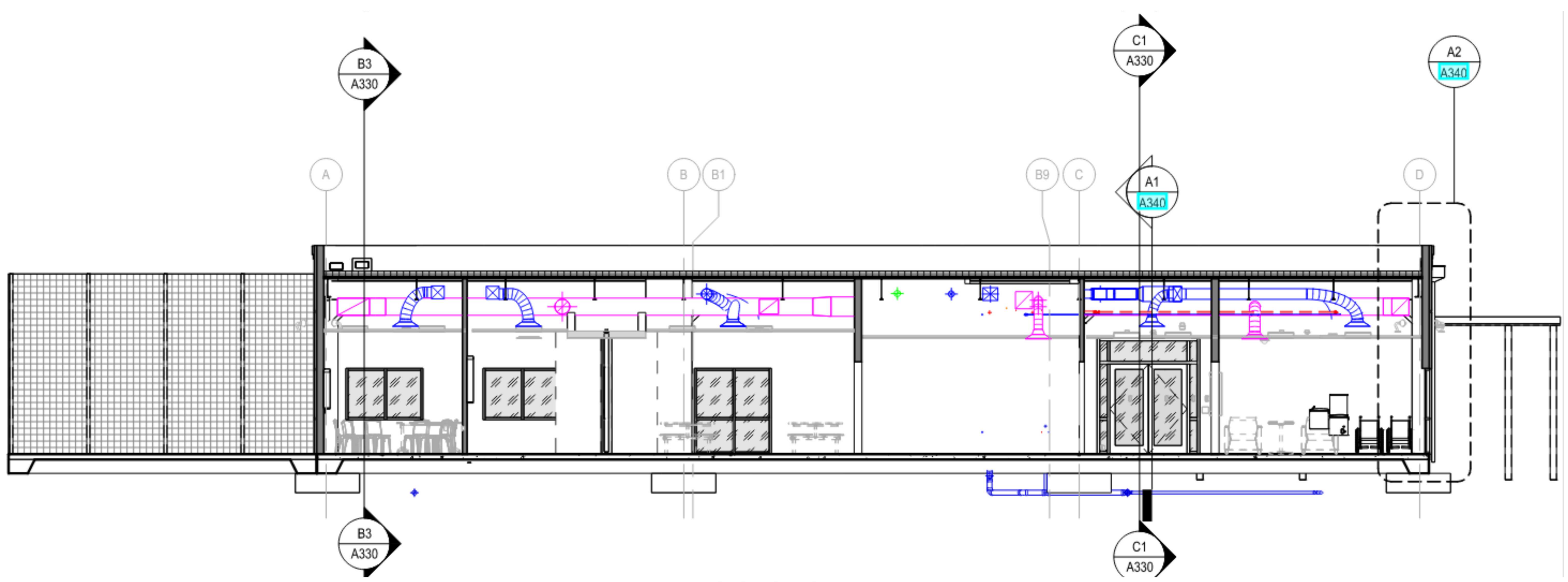
HYDRAULIC DATA PLATES SHALL BE PROVIDED FOR EACH RISER. A STOCK OF SPARE SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.

ALL UNDERGROUND PIPING TO BE FLUSHED AND TESTED BY OTHERS PER NFPA 24, PLEASE FORWARD THIS INFORMATION ON TO THE OWNER AND/OR THE GENERAL CONTRACTOR.

SPRINKLERS TO BE INSTALLED UNDER FIXED OBSTRUCTIONS OVER 4'-0" WIDE SUCH AS HVAC DUCT PER NFPA-13.

GENERAL CONTRACTOR TO PROVIDE SPRINKLER KNOX BOX IF REQUIRED.

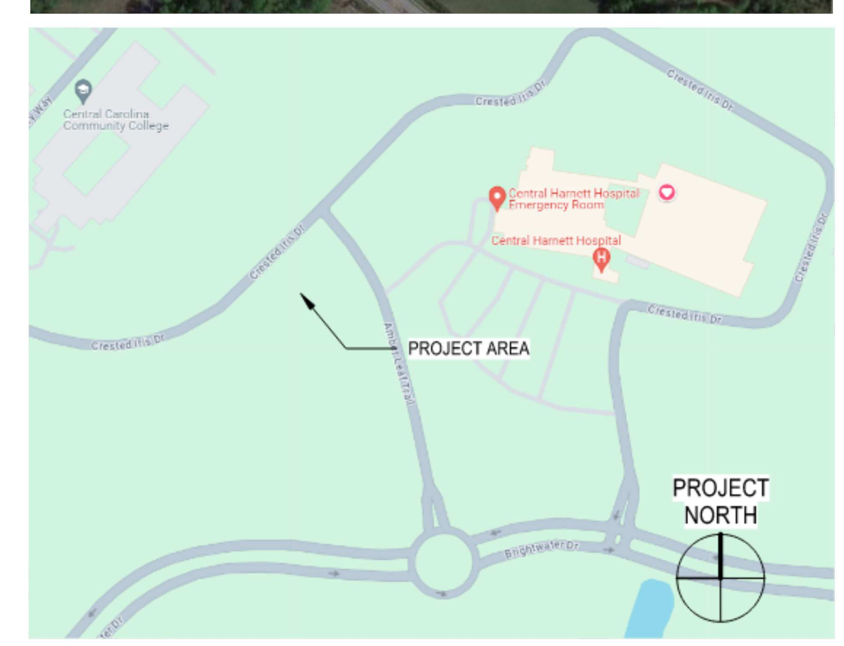
CONTACT PERSON: LANCE TAYLOR, PROJECT MANAGER, ROBINS & MORTON GROUP , TEL: 615-406-5718




## BUILDING SECTION
NTS

| Sprinkler Legend | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | Manufacturer | SIN | Model | Quantity | K-Factor | Type | Size | Response | Finish | Temperature |
| ● | Viking | VK4621 | | 13 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 155°F |
| ● | Viking | VK4621 | | 8 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 200°F |
| ○ | Viking | VK300 | Microfast | 4 | 5.6K | Upright | ½ | Quick | Brass | 155°F |
| ◈ | Viking | VK426 | INST | 59 | 5.6K | Pendent | ½ | Quick | White | 165°F |
| ⊗ | Viking | VK426 | INST | 10 | 5.6K | Pendent | ½ | Quick | White | 205°F |
| ◎ | Viking | VK300 | Microfast | 1 | 5.6K | Upright | ½ | Quick | Brass | 286°F |
| | | | | Total = 95 | | | | | | |




## VICINITY MAP
NTS

FIRE SPRINKLER PLAN
ENGINEER STAMP
NICET #: 120860
AJITH ZACHARIAS · NICET LEVEL 3 · N.C. REGISTERED CONTRACTOR 35525 · FIRE · RALEIGH, N.C.

CFVHS - DOROTHEA DIX ADOLESCENT PSYCHIATRIC UNIT
CRESTED IRIS DRIVE
LILLINGTON, NC 27546

REGIONAL FIRE SERVICES OF NC, LLC
3101-310 POPLARWOOD COURT
RALEIGH, NC 27604
Phone: 919-212-2722
Fax: 919-212-2720

GENERAL CONTRACTOR
THE ROBINS & MORTON GROUP
2015-203 AYRSLEY TOWN BLVD.
CHARLOTTE, NC 28273

| Job No. | Drawn by: | Date: | Dwg. No. | Scale |
|---|---|---|---|---|
| 25011 | TC | 3/3/2025 | FP.1 | AS NOTED |

REGIONAL FIRE SERVICES OF NC LLC

REVISIONS

| | | No. | By |
|---|---|---|---|
| 6/12/25 | BIM COORDINATION SIGN OFF | | TC |
| 6/12/25 | SUBMIT TO CONTRACTOR | | |

NOTES

HANGER INSTALLATION REQUIREMENTS

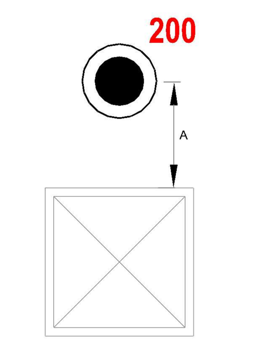
MAXIMUM DISTANCE BETWEEN HANGERS

| NOMINAL PIPE SIZE | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| SCH. 10 & 40 STEEL PIPE | 12-0 | 12-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 |
| THREADABLE LIGHTWALL | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | N/A | N/A | N/A |
| CPVC | 6-0 | 6-6 | 7-0 | 8-0 | 9-0 | 10-0 | N/A | N/A | N/A |

FP.1
FIRE PROTECTION SITE PLAN & NOTES

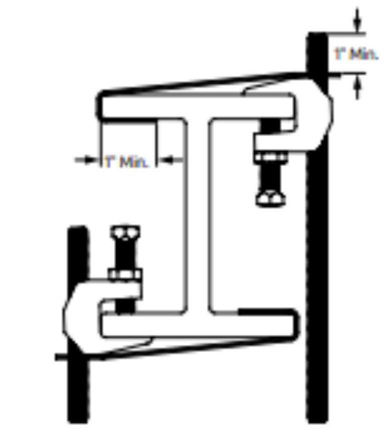
NORTH

**A.8.3.2.5** A diffuser in ceiling sheathing labeled by the manufacturer as "horizontal discharge" has directional vanes to move air further along the ceiling, and sprinklers located within the 2 ft 6 in. (0.8 m) radius should have an intermediate-temperature rating.



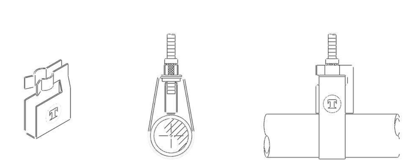

A > 30" - ORDINARY TEMPERATURE
A < 30" INTERMEDIATE TEMPERATURE

**INTERMEDIATE PENDENT SPRINKLER DETAIL**
SCALE: NTS




**RETAINING STRAP DETAIL**
SCALE: NTS

TOLCO FIG. 25 SURGE RESTRAINER
TYPE 1 - FOR 1" AND 1-1/4" PIPE AND HANGER
TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER



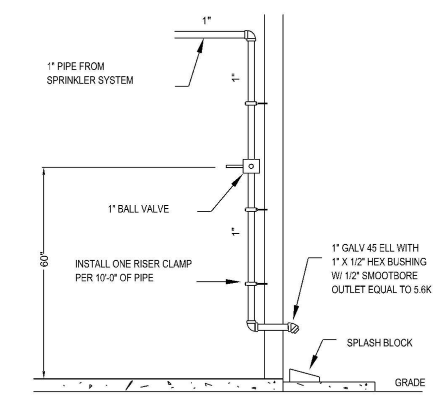
TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH TOLCO BAND HANGERS FIG. 200 AND NFPA TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

( > 100 PSI)

**SURGE RESTRAINT DETAIL**
SCALE: NTS



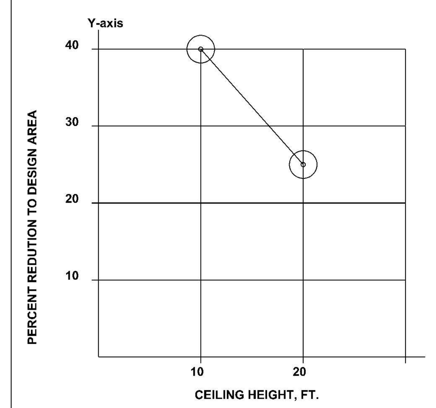

FLEXIBLE HOSE ASSEMBLY
USE ONLY WHERE APPROVED
SCALE: NTS




**WET INSPECTOR'S TEST DETAIL**
SCALE: NTS

11.2.3.2.3.1 / NFPA 13
WHERE LISTED QUICK-RESPONSE SPRINKLERS, INCLUDING EXTENDED COVERAGE QUICK RESPONSE SPRINKLERS, ARE USED THROUGHOUT A SYSTEM OR PORTION OF A SYSTEM HAVING THE SAME HYDRAULIC DESIGN BASIS, THE SYSTEM AREA OF OPERATION SHALL BE PERMITTED TO BE REDUCED WITHOUT REVISING THE DENSITY AS INDICATED IN FIGURE 11.2.3.2.3.1 WHEN ALL OF THE FOLLOWING CONDITIONS ARE SATISFIED:

(1) WET PIPE SYSTEM
(2) LIGHT HAZARD OR ORDINARY HAZARD OCCUPANCY
(3) 20-FOOT (6.1-m) MAXIMUM CEILING HEIGHT
(4) THERE ARE NO UNPROTECTED CEILING POCKETS AS ALLOWED BY 8.6.7 AND 8.8.7 EXCEEDING 32 FT^2




NOTE: $y = \frac{-3x}{2} 55$

FOR CEILING HEIGHT > 10ft and < 20ft, y = -3x + 55

FOR CEILING HEIGHT < 10ft, y = 40

FOR CEILING HEIGHT > 20ft, y = 0.

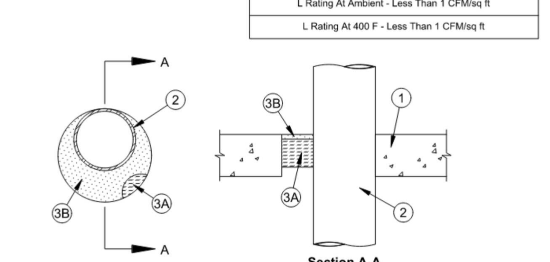
FOR SI UNITS: 1ft = 0.31m.

FIGURE 11.2.3.2.3.1

**REVISED AREA REDUCTION CHART**
NFPA-13

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. C-AJ-1079**

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Ratings - 3 and 4 Hr (See Item 3C) | F Ratings - 3 and 4 Hr (See Item 3C) |
| T Ratings - 0, 1/4, 1/2 and 3/4 Hr (See Item 2) | FT Ratings - 0, 1/4, 1/2 and 3/4 Hr (See Item 2) |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 3 and 4 Hr (See Item 3C) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Ratings - 0, 1/4, 1/2 and 3/4 Hr (See Item 2) |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |




1. **Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks*** . Max diam of opening is 28 in. Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in.
   See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrants** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 4 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** - Nom 24 in diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. **Iron Pipe** - Nom 24 in. diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** - Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel conduit.
   D. **Copper Tubing** - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe** - Nom 6 in. diam (or smaller) Regular or heavier copper pipe.

STI. **Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**
Reproduced courtesy of Underwriters Laboratories, Inc.
Created or Revised: January 23, 2014
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com
C-AJ-1079
PAGE 1 OF 2

| Type of Metallic Penetrant | Max Diam of Metallic Penetrant in. | T Rating Hr |
|---|---|---|
| Steel or Iron Pipe, Conduit | 24 | 0 |
| Copper Pipe or Tube | 6 | 0 |
| Steel or Iron Pipe, Conduit or EMT | 4 | 1/4 |
| Steel or Iron Pipe, Conduit or EMT | 2 | 1/2 |
| Steel or Iron Pipe, Conduit or EMT | 1 | 3/4 |

3. **Firestop System** - The firestop system shall consist of the following:
   A. **Packing Material** - Min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When floor is constructed of hollow-core precast concrete units, packing material is to be recessed from top surfaces of floor to accommodate the required thickness of fill material.
   The thickness of the packing material is dependent upon the type and diam of the through penetrant (Item 2) as tabulated below:

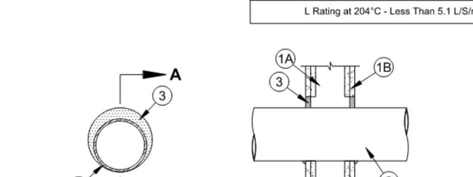
| Thought Penetrant | Max Throught-Penetrant Diam In. | Min Mineral Wool Insulation Thkns In. |
|---|---|---|
| Steel Pipe, Conduit Or Iron Pipe | 6 | 1-1/2++ |
| Steel Pipe, Conduit Or Iron Pipe | 24 | 3 |
| Copper Tube Or Copper Pipe | 6 | 3 |

   ++When annular space exceeds 2 in., packing material thickness to be min 3 in.
   B. **Fill, Void or Cavity Material* - Caulk** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When floor is constructed of hollow-core precast concrete units, fill material is to be installed symmetrically on both sides of floor, flush with floor surfaces. At the point contact location between penetrating item and concrete, a min 3/8 in. thick bead of fill material shall be applied at the concrete penetrating item interface on top surface of floor and both surfaces of wall or hollow-core precast concrete floor.
   **SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
   C. **Steel Cover Plate** - (Not Shown) - Min 0.014 in. (No. 28 gauge) galv steel cut to fit the contour of the through-penetrant (Item 2) with a min 2 in. lap on the top surface of floor and both surfaces of wall assembly around the perimeter of the through-opening. Seams of steel cover plate shall overlap a min 1/2 in. Steel cover plate secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. diam by 1-3/4 in. long steel concrete anchors in conjunction with 1/4 in. by 1-1/4 in. diam steel fender washers spaced a max 6 in. OC.
   The hourly F Rating of the firestop system is dependent upon the use of the steel cover plate. If the steel cover plate is used, the F Rating of the firestop system is 4 hr. If the steel cover plate is omitted, the F Rating of the firestop system is 3 hr.
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

STI. **Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**
Reproduced courtesy of Underwriters Laboratories, Inc.
Created or Revised: January 23, 2014
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com
C-AJ-1079
PAGE 2 OF 2

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115
**System No. W-L-1049**

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating at Ambient - Less Than 5.1 L/S/m2 |
| | L Rating at 204°C - Less Than 5.1 L/S/m2 |



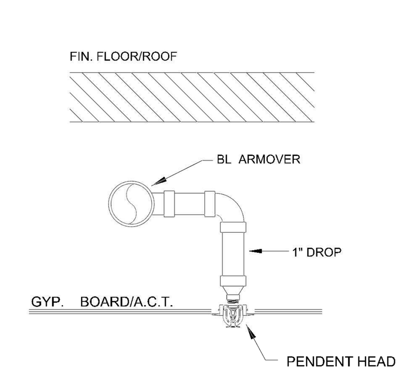

1. **Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction 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 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. **Gypsum Board*** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 38 in. (965 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   **The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.**
1A. **Metallic Sleeve** - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

STI. **Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**
Reproduced courtesy of Underwriters Laboratories, Inc.
Created or Revised: May 22, 2023
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com
W-L-1049
PAGE 1 OF 2

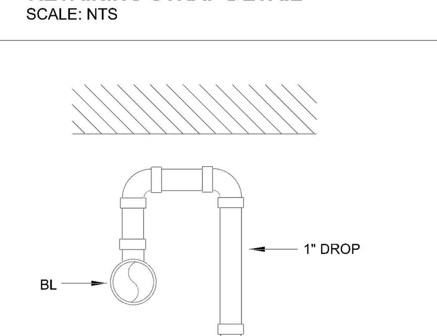
2. **Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.
   D. **Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Stainless Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) stainless steel pipe.
2A. **Through Penetrating Product* - Flexible Metal Piping** - As an alternate to Item 2, one nom 2 in. (51 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.
   **OMEGA FLEX INC**
   **GASTITE, DIV OF TITEFLEX**
   **WARD MFG L L C**
3. **Fill, Void or Cavity Material* - Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
   **SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

STI. **Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**
Reproduced courtesy of Underwriters Laboratories, Inc.
Created or Revised: May 22, 2023
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com
W-L-1049
PAGE 2 OF 2

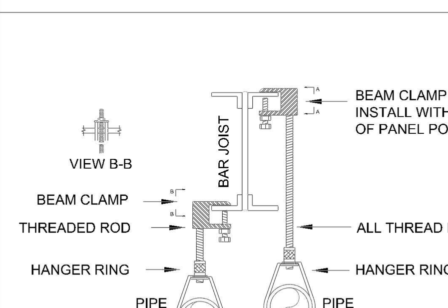



**RECESSED PENDENT**
SCALE: NTS




**NOTE:**
**THIS RETURN BEND DETAIL SHALL APPLY TO ALL D.O.I., S.C.O., & V.A. PROJECTS.**

**RECESSED PENDENT**
SCALE: NTS




USE BOTTOM BEAM CLAMP FOR ALL PIPES 1-1/2" AND SMALLER.

USE TOP BEAM CLAMP FOR ALL PIPES 2" AND LARGER.

**BAR JOIST HANGER DETAIL**
SCALE: NTS

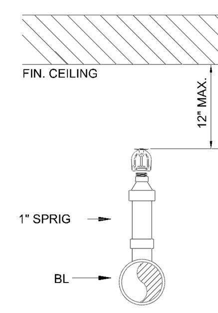



CONCRETE HANGER DETAIL
SCALE: NTS

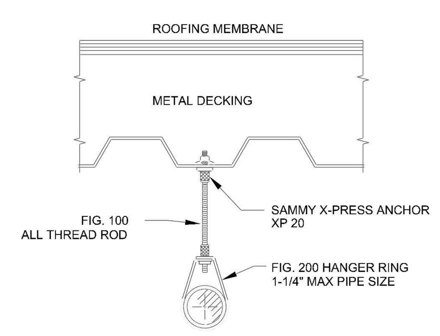



CONCRETE HANGER DETAIL
SCALE: NTS

ABOVE AND BELOW DETAIL
SCALE: NTS



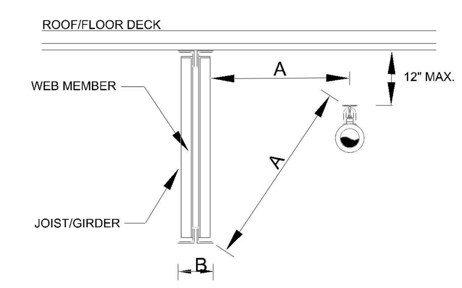

**STANDARD UPRIGHT**
SCALE: NTS




**METAL DECK HANGER DETAILS**
NOT TO SCALE

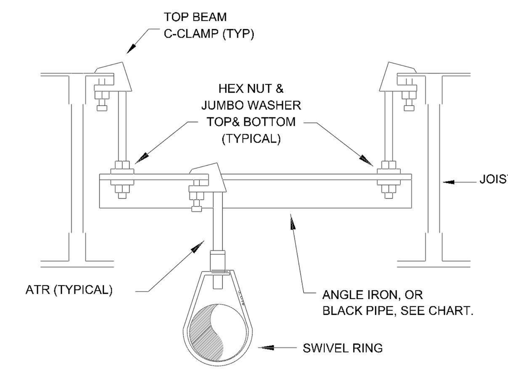



CONCRETE HANGER DETAIL
SCALE: NTS




A > 3B FOR STANDARD COVERAGE
A > 4B FOR EXTENDED COVERAGE

**BAR JOIST OBSTRUCTION RULE**
SCALE: NTS




NOTE: ANGLE IRON & A.T.ROD SIZE PER NFPA-13

**TRAPEZE DETAIL**
SCALE: NTS




DRY HORIZONTAL SIDEWALL
SCALE: NTS



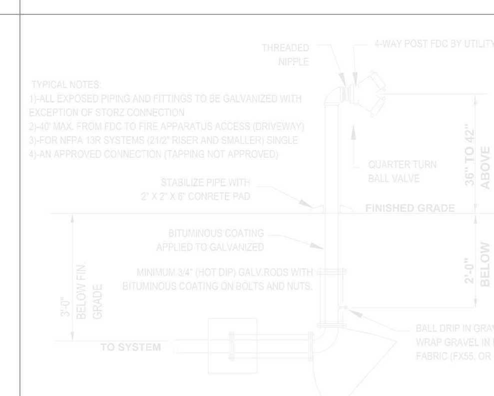

ATTIC TYPE HEAD
SCALE: NTS



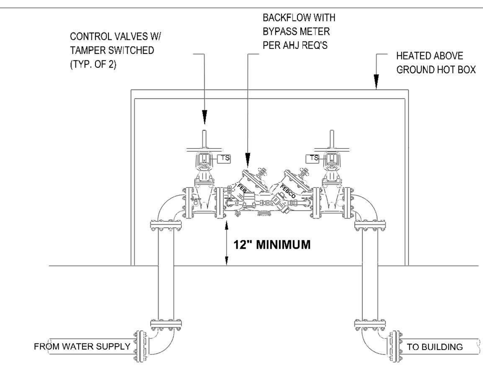

PURLIN HANGER DETAIL
SCALE: NTS




CONCRETE HANGER DETAIL
SCALE: NTS




FREESTANDING FDC DETAIL (BY OTHERS)
SCALE: NTS




**BACKFLOW IN HOTBOX DETAIL (BY OTHERS)**
SCALE: NTS

SPRINKLER SYSTEM

**ALL THREAD ROD INSTALLATION REQUIREMENTS (PER NFPA-13)**

| PIPE SIZE (Schedule 10 OR 40) | ROD SIZE |
|---|---|
| 3/4" | 3/8" |
| 1" | |
| 1-1/4" | |
| 1-1/2" | |
| 2" | |
| 2-1/2" | |
| 3" | |
| 4" | |
| 6" | 1/2" |
| 8" | |

**TRAPEZE INSTALLATION REQUIREMENTS**

| SPAN OF TRAPEZE (Sch. 10 OR 40) | NOMINAL PIPE SIZE SUPPORTED 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| 1 FT. 6 IN. | 1" | 1" | 1" | 1" | 1" | 1" | 1-1/4" | 1-1/4" | 1-1/2" |
| 2 FT. 0 IN. | 1" | 1" | 1" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/2" | 2" |
| 2 FT. 6 IN. | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/2" | 2" | 2" |
| 3 FT. 0 IN. | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/4" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2-1/2" |
| 4 FT. 0 IN. | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2" | 2" | 2-1/2" | 2-1/2" |
| 5 FT. 0 IN. | 2" | 2" | 2" | 2" | 2" | 2" | 2-1/2" | 2-1/2" | 3" |
| 6 FT. 0 IN. | 2" | 2" | 2" | 2" | 2" | 2-1/2" | 2-1/2" | 3" | 3" |
| 7 FT. 0 IN. | 2" | 2" | 2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3-1/2" |
| 8 FT. 0 IN. | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3-1/2" |
| 9 FT. O IN. | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 4" | 4" |
| 10 FT. 0 IN. | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3" | 4" | 4" |

SPRINKLER HEAD TEMPERATURE RATINGS

| MAX CEILING TEMP. | HEAD TEMP. RATING | TEMP. CLASSIFICATION |
|---|---|---|
| 100° | 135°-170° | ORDINARY |
| 150° | 175°-225° | INTERMEDIATE |
| 225° | 250°-300° | HIGH |




DRY HOR. SIDEWALL IN PAINT BOOTH DUCT
SCALE: NTS

SPRINKLER HEAD TEMPERATURE RATINGS

| MAX CEILING TEMP. | HEAD TEMP. RATING | TEMP. CLASSIFICATION |
|---|---|---|
| 100° | 135°-170° | ORDINARY |
| 150° | 175°-225° | INTERMEDIATE |
| 225° | 250°-300° | HIGH |




DRY PENDENT IN FREEZER /COOLER
SCALE: NTS




PURLIN HANGER DETAIL
SCALE: NTS




CONCRETE HANGER DETAIL
SCALE: NTS




SIAMESE FDC DETAIL
SCALE: NTS




BACKFLOW IN HOTBOX & SIAMESE FDC DETAIL (BY OTHERS)
SCALE: NTS




DRUM DRIP DETAIL
SCALE: NTS




EXISTING ZONE CONTROL DETAIL
SCALE: NTS




RESIDENTIAL & EX. COVERAGE HORIZONTAL SIDEWALL
SCALE: NTS



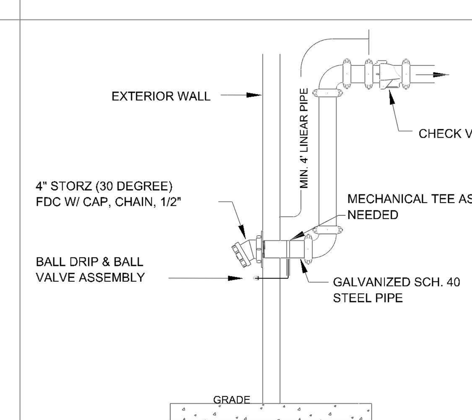

STANDARD COVERAGE HORIZONTAL SIDEWALL
SCALE: NTS




"L" CHANNEL HANGER DETAIL
SCALE: NTS



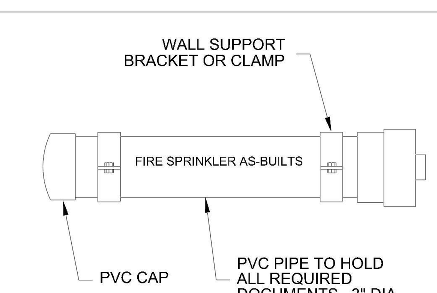

CONCRETE HANGER DETAIL
SCALE: NTS




**5" STORZ FDC DETAILS**
SCALE: NTS

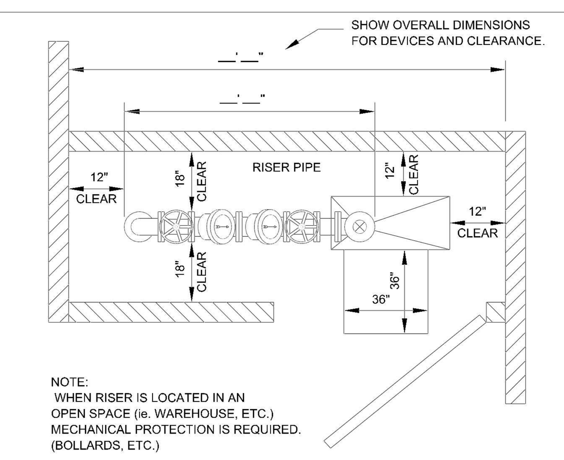



BACKFLOW IN HOTBOX (BY OTHERS)
SCALE: NTS




NOTE:
RECORD DRAWING STORAGE TUBE TO BE INSTALLED & REMAIN IN RISER ROOM

**RECORD DRAWING STORAGE DETAIL**
SCALE: NTS




NOTE:
WHEN RISER IS LOCATED IN AN OPEN SPACE (ie. WAREHOUSE, ETC.) MECHANICAL PROTECTION IS REQUIRED. (BOLLARDS, ETC.)

**RISER ROOM CLEARANCE MIN.REQUIREMENTS**
SCALE: NTS

FIRE SPRINKLER PLAN
ENGINEER STAMP
NICET #: 120860

**CFVHS - DOROTHEA DIX ADOLESCENT PSYCHIATRIC UNIT**
**CRESTED IRIS DRIVE**
**LILLINGTON, NC 27546**


REGIONAL FIRE SERVICES OF NC, LLC
3101-310 POPLARWOOD COURT
RALEIGH, NC 27604
Phone: 919-212-2722
Fax: 919-212-2720


GENERAL CONTRACTOR
THE ROBINS & MORTON GROUP
2015-203 AYRSLEY TOWN BLVD.
CHARLOTTE, NC 28273

Job No. 25011 | Drawn by: TC | Date: 3/3/2025 | Dwg. No. FP.2 | Scale AS NOTED

REGIONAL FIRE SERVICES OF NC LLC

| No. | By | REVISIONS |
|---|---|---|
| 6/12/25 | TC | BIM COORDINATION SIGN OFF |
| 6/12/25 | | SUBMIT TO CONTRACTOR |

NOTES

HANGER INSTALLATION REQUIREMENTS

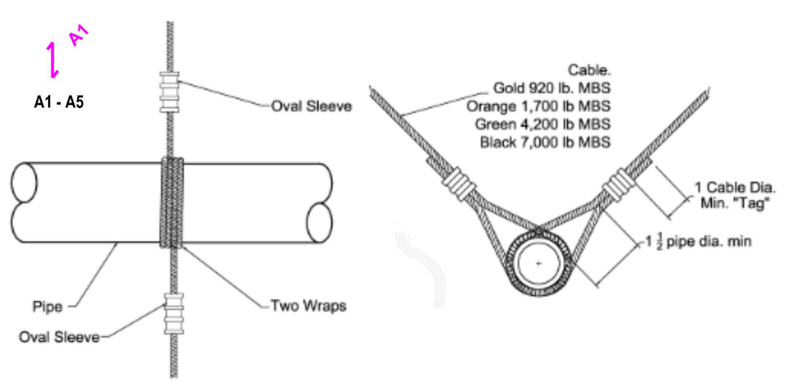
| NOMINAL PIPE SIZE | MAXIMUM DISTANCE BETWEEN HANGERS 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| SCH. 10 & 40 STEEL PIPE | 12-0 | 12-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 |
| THREADABLE LIGHTWALL | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | N/A | N/A | N/A |
| CPVC | 6-0 | 6-6 | 7-0 | 8-0 | 9-0 | 10-0 | N/A | N/A | N/A |

FP.2
FIRE PROTECTION DETAILS

NORTH

# INSTRUCTIONS

## Lateral Brace




1. Slide oval sleeve onto end of cable. Slide sleeve up cable to allow working room.
2. Wrap cable around pipe twice. Form a simple knot on the second wrap to hold the cable in place.
3. Slide loose end of the cable into sleeve and pull cable to remove slack.
4. Crimp sleeve per Figure 1 below.
5. Repeat in opposite direction.

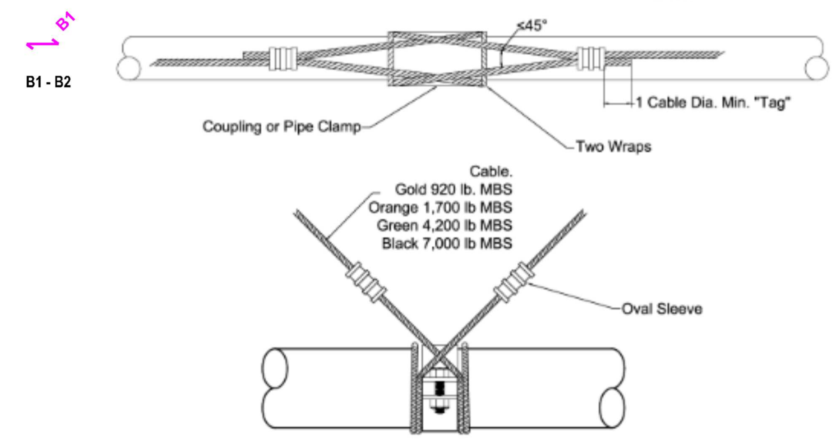
Figure 1

| Size | Cable Color | Number of Crimps | Break Strength (lbs) | Working Load (lbs) |
|---|---|---|---|---|
| #GO3 | Gold | 2 | 920 | 418 |
| #OR4 | Orange | 2 | 1,700 | 770 |
| #GR6 | Green | 3 | 4,200 | 1,900 |
| #BL8 | Black | 3 | 7,000 | 3,180 |



# INSTRUCTIONS

## Longitudinal Brace




1. Slide oval sleeve onto end of cable. Slide sleeve up cable to allow working room.
2. Wrap cable around pipe twice. Form a simple knot on the second wrap to hold the cable in place. Be sure the wrap is on the far side of a pipe clamp or grooved coupling, and not on it.
3. Slide loose end of the cable into sleeve and pull cable to remove slack.
4. Crimp sleeve per Figure 1 below.
5. Repeat in opposite direction.

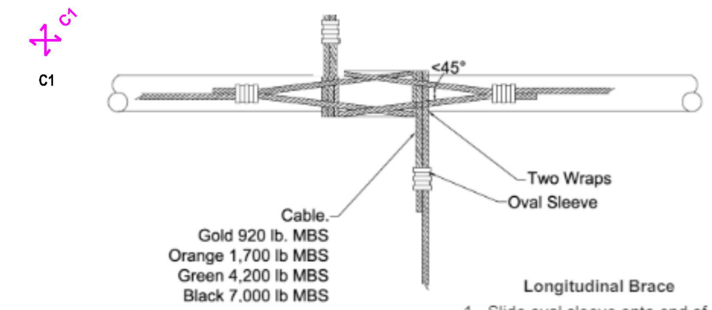
Figure 1

| Size | Cable Color | Number of Crimps | Break Strength (lbs) | Working Load (lbs) |
|---|---|---|---|---|
| #GO3 | Gold | 2 | 920 | 418 |
| #OR4 | Orange | 2 | 1,700 | 770 |
| #GR6 | Green | 3 | 4,200 | 1,900 |
| #BL8 | Black | 3 | 7,000 | 3,180 |



# INSTRUCTIONS

## 4-Way Brace




**Lateral Brace**

1. Slide oval sleeve onto end of cable. Slide sleeve up cable to allow working room.
2. Wrap cable around pipe twice. Form a simple knot on the second wrap to hold the cable in place.
3. Slide loose end of the cable into sleeve and pull cable to remove slack.
4. Crimp sleeve per Figure 1 below.
5. Repeat in opposite direction.

**Longitudinal Brace**

1. Slide oval sleeve onto end of cable. Slide sleeve up cable to allow working room.
2. Wrap cable around pipe twice. Form a simple knot on the second wrap to hold the cable in place. Be sure the wrap is on the far side of a pipe clamp or grooved coupling, and not on it.
3. Slide loose end of the cable into sleeve and pull cable to remove slack.
4. Crimp sleeve per Figure 1 below.
5. Repeat in opposite direction.

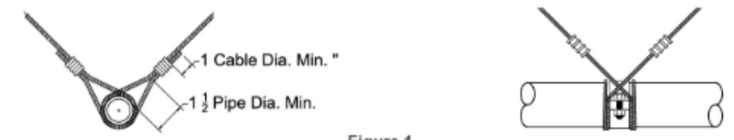


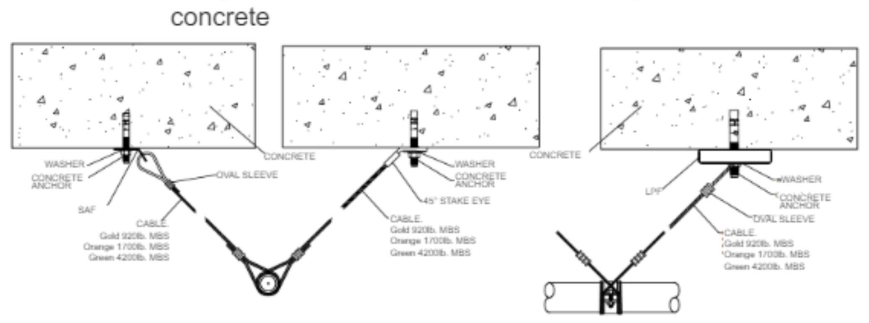

Figure 1

| Size | Cable Color | Number of Crimps | Break Strength (lbs) | Working Load (lbs) |
|---|---|---|---|---|
| #GO3 | Gold | 2 | 920 | 418 |
| #OR4 | Orange | 2 | 1,700 | 770 |
| #GR6 | Green | 3 | 4,200 | 1,900 |
| #BL8 | Black | 3 | 7,000 | 3,180 |



# INSTRUCTIONS

**Load:** Perpendicular to Structural Member
**Angles:** A (30°), B (45°), and C (60°)
**Material:** Wedge anchors in 4,000 PSI normal-weight cracked concrete



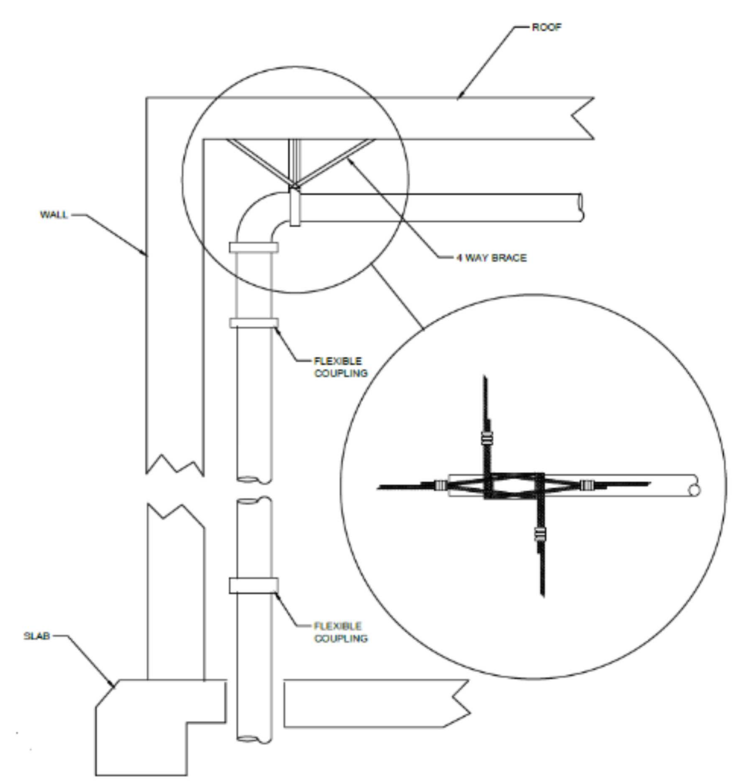

**Maximum Load for Wedge Anchors in 4,000 psi (267 bar) Normal-Weight Cracked Concrete**

| Fastener Diameter | Fastener Embedment | LPF | | | SAF (All) | | | Stake Eye | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30°-44° | 45°-59° | 60°-90° | 30°-44° | 45°-59° | 60°-90° | 30°-44° | 45°-59° | 60°-90° |
| 3/8" | 2" | 200 lbs. | 282 lbs. | 344 lbs. | 135 lbs. | 214 lbs. | 295 lbs. | 135 lbs. | 214 lbs. | 295 lbs. |
| 1/2" | 3-5/8" | 430 lbs. | 607 lbs. | 742 lbs. | 289 lbs. | 460 lbs. | 636 lbs. | 289 lbs. | 460 lbs. | 636 lbs. |
| 5/8" | 3-7/8" | 532 lbs. | 729 lbs. | 872 lbs. | 367 lbs. | 566 lbs. | 760 lbs. | N/A | N/A | N/A |
| 3/4" | 4-1/8" | 630 lbs. | 903 lbs. | 1,117 lbs. | 419 lbs. | 676 lbs. | 948 lbs. | N/A | N/A | N/A |



# INSTRUCTIONS

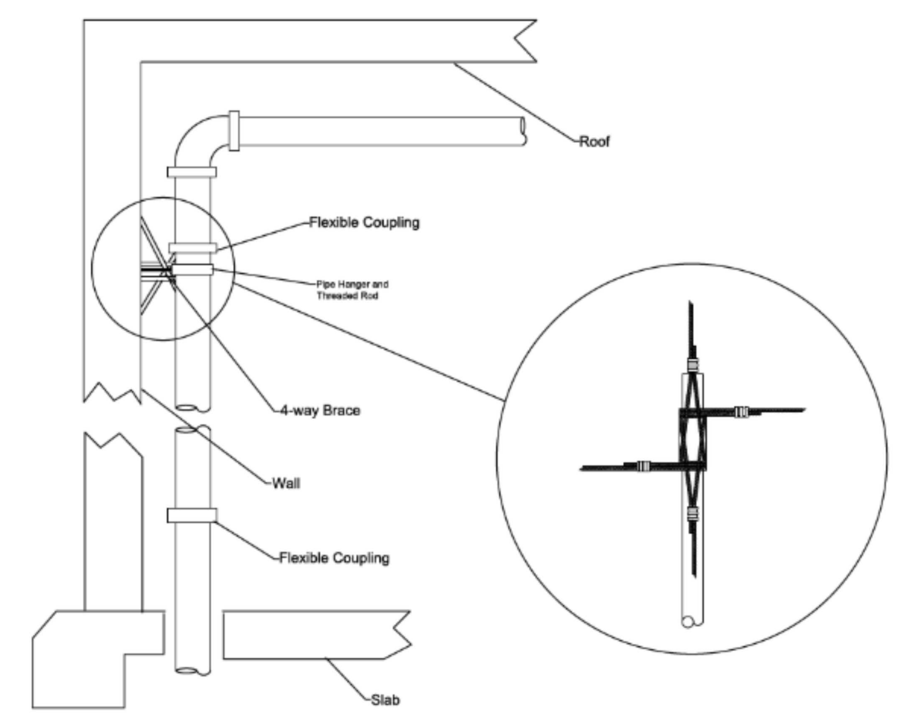
## Typical Riser Bracing Flat Roof Installation



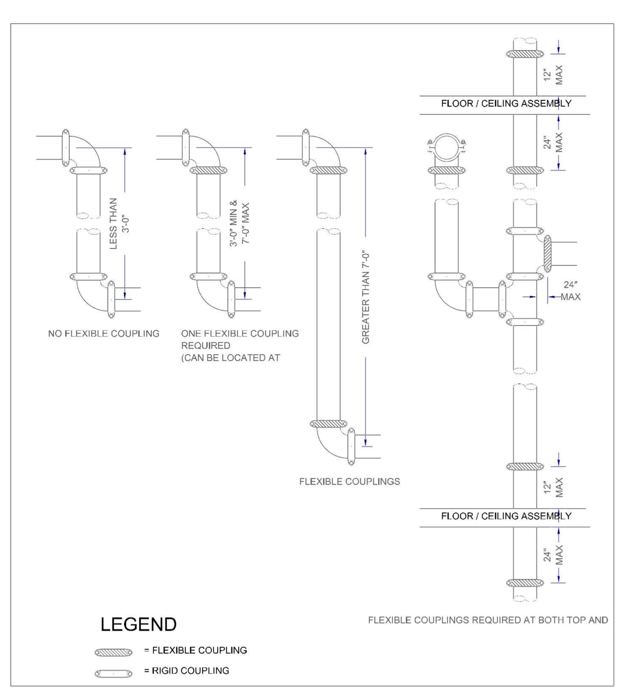



# INSTRUCTIONS

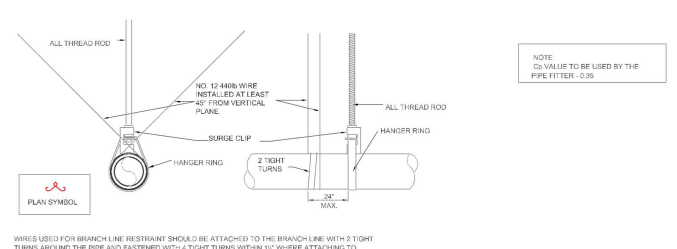
## Typical Riser Bracing Wall Installation






**VERTICAL PIPE**
**FLEXIBLE COUPLING DETAIL**
NOT TO SCALE




NOTE:
Cp VALUE TO BE USED BY THE PIPE FITTER - 0.35

**BRANCH LINE RESTRAINT DETAILS**
NOT TO SCALE

Table 9.3.6.4(a) Maximum Spacing (ft) of Steel Branch Line Restraints

| Pipe (in.) | Seismic Coefficient ($C_p$) $C_p \le 0.50$ | $0.5 < C_p \le 0.71$ | $C_p > 0.71$ |
|---|---|---|---|
| 1 | 43 | 36 | 26 |
| 1¼ | 46 | 39 | 27 |
| 1½ | 49 | 41 | 29 |
| 2 | 53 | 45 | 31 |

FIRE SPRINKLER PLAN
ENGINEER STAMP
NICET #: 120860

CFVHS - DOROTHEA DIX ADOLESCENT PSYCIHATRIC UNIT
CRESTED IRIS DRIVE
LILLINGTON, NC 27546

REGIONAL FIRE SERVICES OF NC, LLC
3101-310 POPLARWOOD COURT
RALEIGH, NC 27604
Phone: 919-212-2722
Fax: 919-212-2720

GENERAL CONTRACTOR
THE ROBINS & MORTON GROUP
2015-203 AYRSLEY TOWN BLVD.
CHARLOTTE, NC 28273

| Job No. | 25011 | Drawn by: | TC | Date: | 3/3/2025 | Dwg. No. | FP.3 | Scale | AS NOTED |
|---|---|---|---|---|---|---|---|---|---|

REGIONAL FIRE SERVICES OF NC LLC

**REVISIONS**

| Date | Description | No. | By |
|---|---|---|---|
| 6/12/25 | BIM COORDINATION SIGN OFF | | TC |
| 6/12/25 | SUBMIT TO CONTRACTOR | | |

**NOTES**

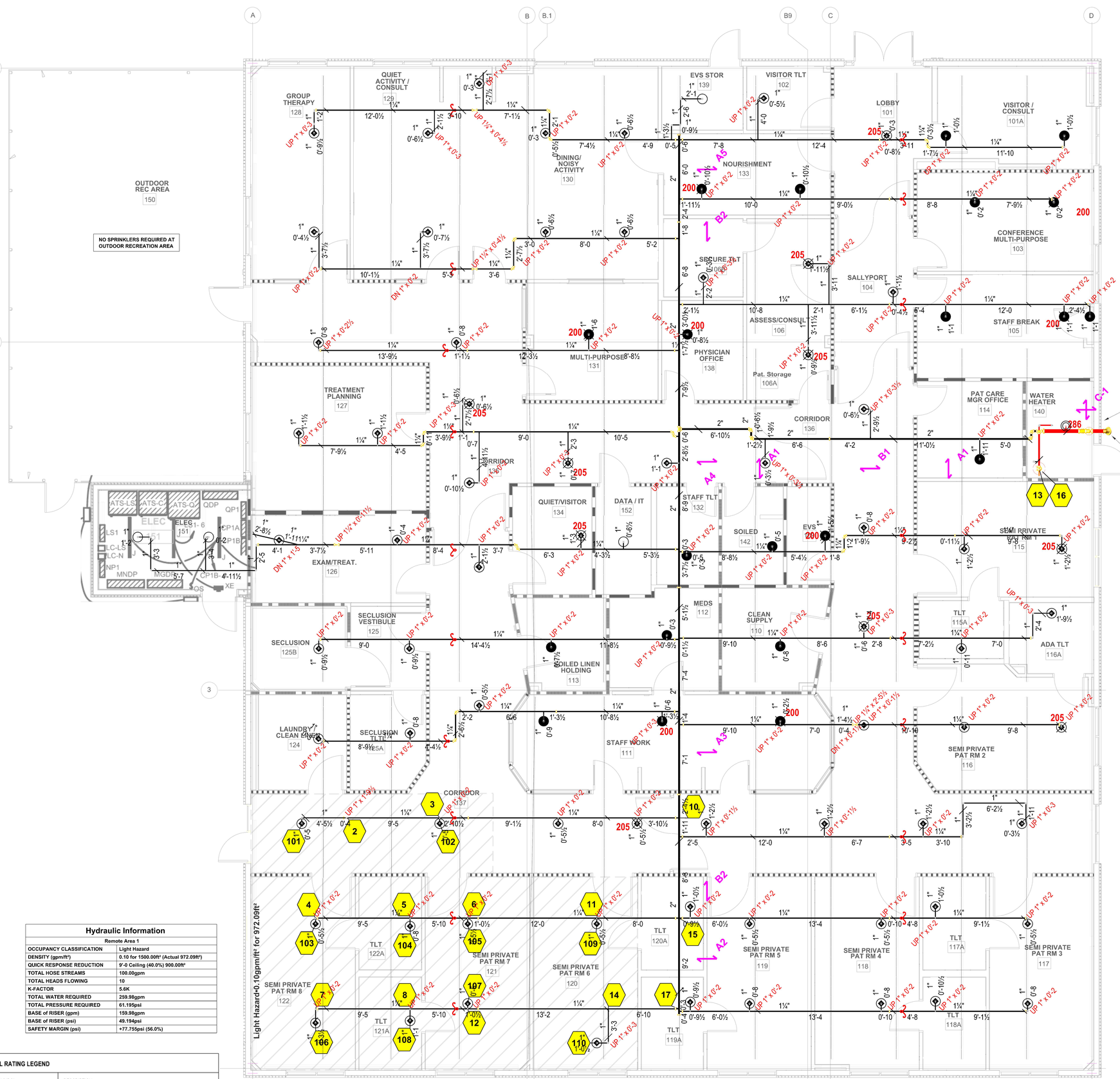
HANGER INSTALLATION REQUIREMENTS

MAXIMUM DISTANCE BETWEEN HANGERS

| NOMINAL PIPE SIZE | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| SCH. 10 & 40 STEEL PIPE | 12-0 | 12-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 |
| THREADABLE LIGHTWALL | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | N/A | N/A | N/A |
| CPVC | 6-0 | 6-6 | 7-0 | 8-0 | 9-0 | 10-0 | N/A | N/A | N/A |

FP.2
FIRE PROTECTION DETAILS

NORTH




## FIRE PROTECTION PIPE PLAN
## 1/4" = 1'-0"

| Hydraulic Information | |
|---|---|
| Remote Area 1 | |
| OCCUPANCY CLASSIFICATION | Light Hazard |
| DENSITY (gpm/ft²) | 0.10 for 1500.00ft² (Actual 972.09ft²) |
| QUICK RESPONSE REDUCTION | 9'-0 Ceiling (40.0%) 900.00ft² |
| TOTAL HOSE STREAMS | 100.00gpm |
| TOTAL HEADS FLOWING | 10 |
| K-FACTOR | 5.6K |
| TOTAL WATER REQUIRED | 259.98gpm |
| TOTAL PRESSURE REQUIRED | 61.195psi |
| BASE of RISER (gpm) | 159.98gpm |
| BASE of RISER (psi) | 49.194psi |
| SAFETY MARGIN (psi) | +77.755psi (56.0%) |

| WALL RATING LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| | SMOKE PARTITION |
| | 1 HOUR FIRE BARRIER |
| | 1 HOUR FIRE/SMOKE BARRIER |

**Ensure the escutcheon plate is tight against the ceiling.**

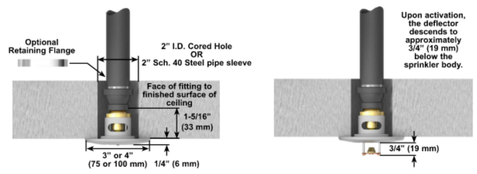
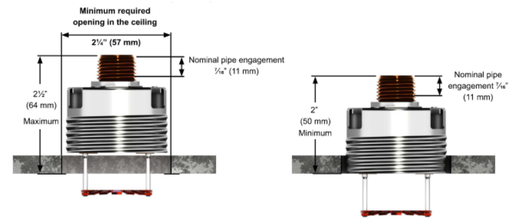



Figure 6: Installation Dimensions - Pendent

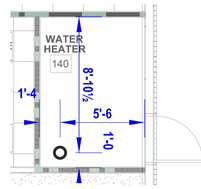
## VK426 INSTALLATION DIMENSIONS
## NTS




NOTE: *Image is representative only. Actual product may vary.*

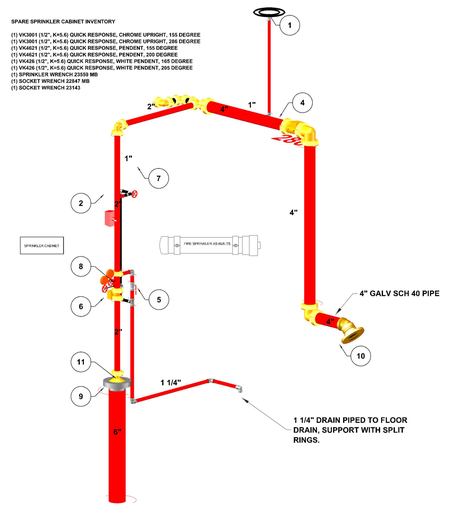
Figure 5: Sprinkler Installation Dimensions

## VK462 INSTALLATION DIMENSIONS
## NTS




## FIRE RISER DIMESNION
## NTS

SPARE SPRINKLER CABINET INVENTORY
(1) VK3001 (1/2", K=5.6) QUICK RESPONSE, CHROME UPRIGHT, 155 DEGREE
(1) VK3001 (1/2", K=5.6) QUICK RESPONSE, CHROME UPRIGHT, 286 DEGREE
(1) VK4621 (1/2", K=5.6) QUICK RESPONSE, PENDENT, 155 DEGREE
(1) VK4621 (1/2", K=5.6) QUICK RESPONSE, PENDENT, 200 DEGREE
(1) VK4626 (1/2", K=5.6) QUICK RESPONSE, WHITE PENDENT, 165 DEGREE
(1) VK4626 (1/2", K=5.6) QUICK RESPONSE, WHITE PENDENT, 205 DEGREE
(1) SPRINKLER WRENCH 23550 MB
(1) SOCKET WRENCH 22847 MB
(1) SOCKET WRENCH 23143




| Riser Parts Legend | | | |
|---|---|---|---|
| Key Note | Size | Description | Quantity |
| 1 | ⅛ | VK300, Microfast, 5.6, (QR), Brass, 200°F, Upright | 1 |
| 2 | 2 x 1¼ | Waterflow Detector (Wired by Others) | 1 |
| 3 | | Electric Alarm Bell (Installed & Wired by Others) | 1 |
| 4 | 4 | FDC Swing Check Valve, G-G | 1 |
| 5 | 1¼ | Ball Valve, T-T - Drain Valve | 1 |
| 6 | 2 | Butterfly Valve, G-G (Wired by Others) | 1 |
| 7 | 1 | 1011A, Inspectors Test & Drain, w/ PRV, T-T, 1/2" ORIF (5.6K) | 1 |
| 8 | 2 | CV-1FR, Swing Check Valve, Riser Check, G-G | 1 |
| 9 | 6 | F-Grooved, Low Pressure Flange, DI (RFSNC work starts here) | 1 |
| 10 | 4 x 5 | Fig. 09-230, Storz FDC, Exposed, Single, Back w/ Ball Drip | 1 |
| 11 | 6 x 2 | Grooved Concentric Reducer, DI, Org | 1 |

| Sprinkler Legend | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | Manufacturer | SIN | Model | Quantity | K-Factor | Type | Size | Response | Finish | Temperature |
| ● | Viking | VK4621 | | 13 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 155°F |
| ● | Viking | VK4621 | | 8 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 200°F |
| ○ | Viking | VK300 | Microfast | 4 | 5.6K | Upright | ½ | Quick | Brass | 155°F |
| ◆ | Viking | VK426 | INST | 59 | 5.6K | Pendent | ½ | Quick | White | 165°F |
| ◈ | Viking | VK426 | INST | 10 | 5.6K | Pendent | ½ | Quick | White | 205°F |
| ◎ | Viking | VK300 | Microfast | 1 | 5.6K | Upright | ½ | Quick | Brass | 286°F |
| | | | | Total = 95 | | | | | | |

CFVHS - DOROTHEA DIX ADOLESCENT PSYCHIATRIC UNIT
CRESTED IRIS DRIVE
LILLINGTON, NC 27546

FIRE SPRINKLER PLAN
NICET #: 120860

REGIONAL FIRE SERVICES OF NC., LLC
5101 POPLARWOOD COURT
RALEIGH, NC 27604
Phone: 919-212-2722
Fax: 919-212-2720

GENERAL CONTRACTOR
THE ROBINS & MORTON GROUP
2015-203 AYRSLEY TOWN BLVD.
CHARLOTTE, NC 28273

Job No. 25011 | Drawn by: TC | Date: 3/3/2025 | Proj No. | FP.4 | Scale: AS NOTED

| No. | By | REVISIONS |
|---|---|---|
| | TC | 6/12/25 BIM COORDINATION SIGN OFF |
| | | 6/12/25 SUBMIT TO CONTRACTOR |

NOTES
HANGER INSTALLATION REQUIREMENTS
MAXIMUM DISTANCE BETWEEN HANGERS

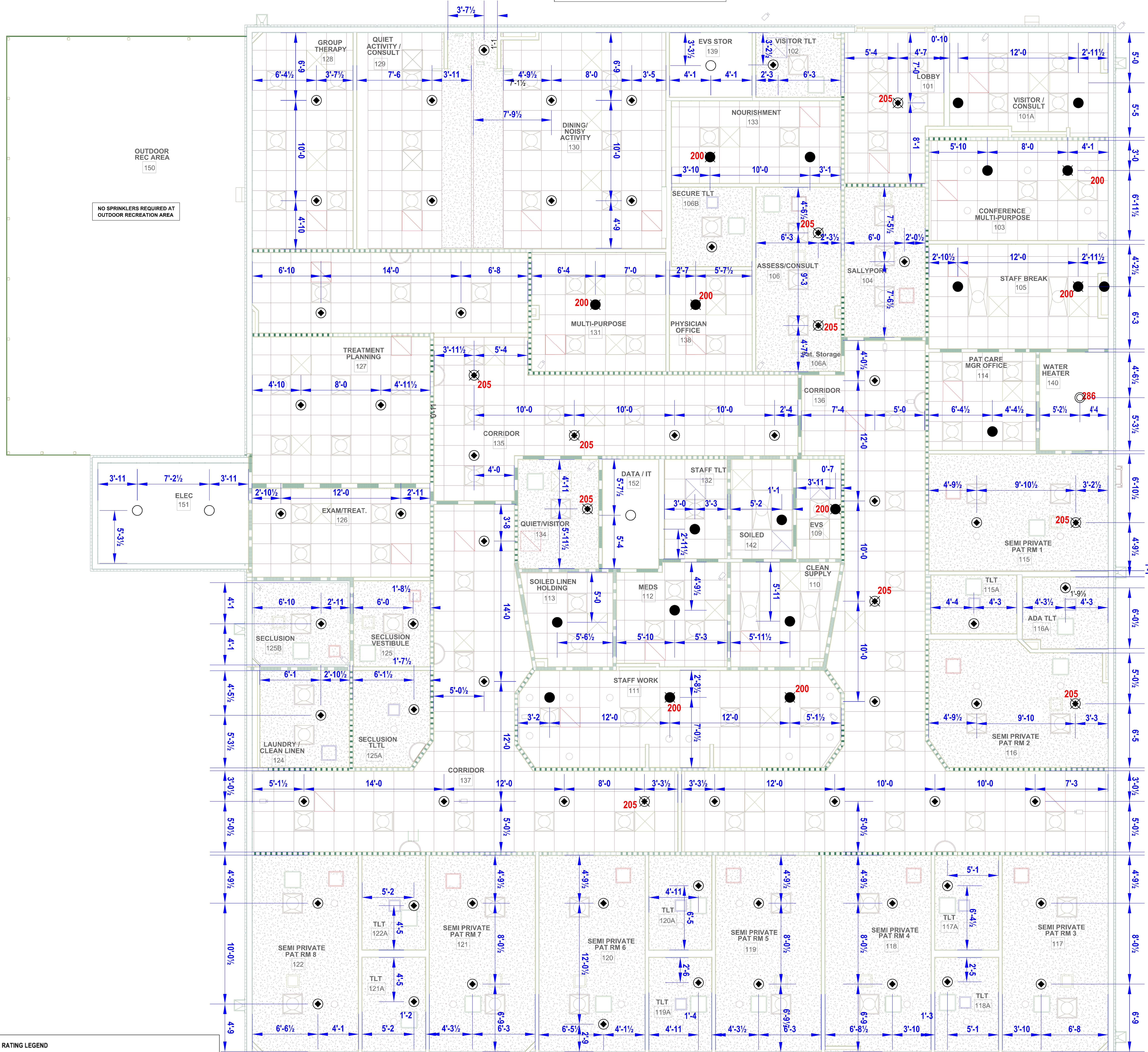
| NOMINAL PIPE SIZE | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| SCH. 10 & 40 STEEL PIPE | 12-0 | 12-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 |
| THREADABLE LIGHTWALL | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | N/A | N/A | N/A |
| CPVC | 6-0 | 6-6 | 7-0 | 8-0 | 8-0 | 8-6 | N/A | N/A | N/A |

FP.4
FIRE PROTECTION PIPE PLAN

NORTH

CEILING HEIGHT NOTE:

ALL CEILINGS HEIGHTS ARE 9'-0" AFF UNLESS OTHERWISE NOTED




## FIRE PROTECTION DIMENSION PLAN

1/4" = 1'-0"

### WALL RATING LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| (green dashed line) | SMOKE PARTITION |
| (blue dashed line) | 1 HOUR FIRE BARRIER |
| (brown dashed line) | 1 HOUR FIRE/SMOKE BARRIER |

### Sprinkler Legend

| Symbol | Manufacturer | SIN | Model | Quantity | K-Factor | Type | Size | Response | Finish | Temperature |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | Viking | VK4621 | | 13 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 155°F |
| ● | Viking | VK4621 | | 8 | 5.6K | Concealed Pendent | ½ | Quick | Brass | 200°F |
| ○ | Viking | VK300 | Microfast | 4 | 5.6K | Upright | ½ | Quick | Brass | 155°F |
| ◈ | Viking | VK426 | INST | 59 | 5.6K | Pendent | ½ | Quick | White | 165°F |
| ⊗ | Viking | VK426 | INST | 10 | 5.6K | Pendent | ½ | Quick | White | 205°F |
| ◎ | Viking | VK300 | Microfast | 1 | 5.6K | Upright | ½ | Quick | Brass | 286°F |
| | | | | Total = 95 | | | | | | |

### RCP LEGEND

- CEILING TAG: CEILING TYPE; CEILING HEIGHT (1t, 10'-0" AFF)
- 2X2 ACOUSTICAL SUSPENDED CEILING SYSTEM REFER TO SPECIFICATIONS SECTION 095115
- 2X2 ACOUSTICAL SUSPENDED CEILING SYSTEM WITH HOLD DOWN CLIPS
- NEW GYPSUM BOARD CEILING SYSTEM
- NEW IMPACT RESISTANT GYPSUM BOARD CEILING SYSTEM
- EXIT SYMBOL TAG WALL MOUNTED LIGHTED WITH DIRECTIONAL ARROWS
- ACCESS PANEL
- SECURITY CAMERA
- MECHANICAL SUPPLY DIFFUSER
- MECHANICAL RETURN GRILL
- LIGHT FIXTURE: RECESSED CAN
- LIGHT FIXTURE 2x2 LED
- LIGHT FIXTURE 2x4 LED
- LIGHT FIXTURE STRIP 1x4 LED
- EXIT SYMBOL TAG LIGHTED WITH DIRECTIONAL ARROWS
- MOTION SENSOR
- EXTERIOR SUSPENDED METAL FRAMED SOFFIT WITH EIFS FINISH
- AREA NOT IN CONTRACT

### KEY PLAN

FIRE SPRINKLER PLAN

ENGINEER STAMP NICET #: 120860

AJITH ZACHARIAS NICET LEVEL 3 NC REGISTERED CONTRACTOR 35525 FIRE SPRINKLER RALEIGH, NC

CFVHS - DOROTHEA DIX ADOLESCENT PSYCHIATRIC UNIT
CRESTED IRIS DRIVE
LILLINGTON, NC 27546


GENERAL CONTRACTOR
THE ROBINS & MORTON GROUP
2015-203 AYRSLEY TOWN BLVD.
CHARLOTTE, NC 28273

REGIONAL FIRE SERVICES OF NC, LLC
3101-310 POPLARWOOD COURT
RALEIGH, NC 27604
Phone: 919-212-2722
Fax: 919-212-2720


| Job No. | Drawn by: | Date: | Dwg. No. | Scale |
|---|---|---|---|---|
| 25011 | TC | 3/3/2025 | FP.5 | AS NOTED |

REGIONAL FIRE SERVICES OF NC LLC

### REVISIONS

| No. | Date | Description | By |
|---|---|---|---|
| | 6/12/25 | BIM COORDINATION SIGN OFF | TC |
| | 6/12/25 | SUBMIT TO CONTRACTOR | |

### NOTES

HANGER INSTALLATION REQUIREMENTS

MAXIMUM DISTANCE BETWEEN HANGERS

| NOMINAL PIPE SIZE | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" | 8" |
|---|---|---|---|---|---|---|---|---|---|
| SCH. 10 & 40 STEEL PIPE | 12-0 | 12-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 | 15-0 |
| THREADABLE LIGHTWALL | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | 12-0 | N/A | N/A | N/A |
| CPVC | 6-0 | 6-6 | 7-0 | 8-0 | 9-0 | 10-0 | N/A | N/A | N/A |

FP.5

FIRE PROTECTION DIMENSION PLAN

NORTH