

WATER BASED FIRE PROTECTION SYSTEM NOTES

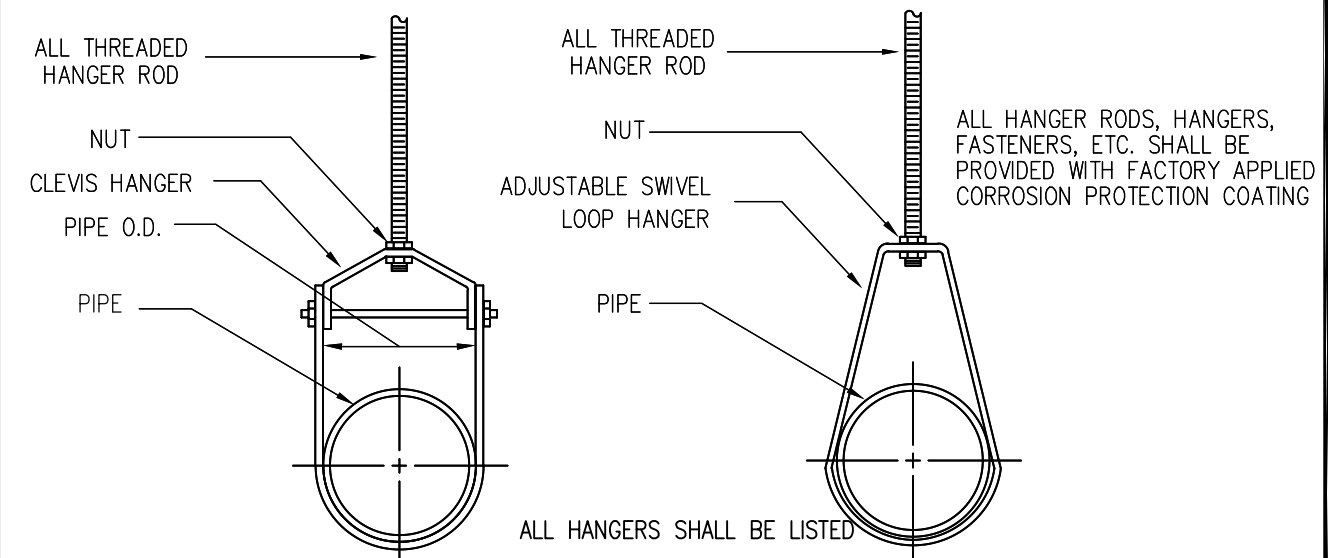
1. THE FIRE PROTECTION SYSTEM SUPPLIED UNDER THIS CONTRACT AND SPECIFICATIONS IS A NEW WET PIPE SPRINKLER OR COMBINED SYSTEM TO BE INSTALLED IN ALL AREAS OF THE BUILDING AS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED BY THE FOLLOWING APPLICABLE CODES & STANDARDS WHEN APPLICABLE:
- A. FLORIDA BUILDING CODE 2017  
B. FLORIDA FIRE PREVENTION CODE 2014  
C. NFPA 13 2002  
D. UNDERWRITERS LABORATORIES FIRE PROTECTION EQUIPMENT DIRECTORY  
E. LOCAL REGULATIONS ON FIRE SAFETY CODE FOR FIRE PROTECTION SYSTEMS.
2. DESIGN APPROACH:  
A. SYSTEM TYPE = WET PIPE SPRINKLER SYSTEM  
B. DESIGN DENSITIES: LIGHT HAZARD = 0.10 gpm/sq.ft. over 1,500sq.ft.  
C. DEVICE TEMP. RATING: SEE SPRINKLER HEAD SCHEDULE.  
D. HEAD SPACING: SEE SPRINKLER HEAD SCHEDULE
3. CLASSIFICATION OF HAZARDS:  
A. LIGHT HAZARD OCCUPANCIES: APARTMENTS, RESIDENTIAL CORRIDORS, LOBBIES, DINNING ROOMS, STORAGE ROOMS.
4. ALL DEVICES USED IN THIS SYSTEM SHALL BE LISTED BY UNDERWRITERS LABORATORY IN THE UL FIRE PROTECTION EQUIPMENT DIRECTORY. ALL PIPING SHALL BE LISTED BY THE AMERICAN SOCIETY FOR TESTING MATERIALS.
5. THE FIRE SPRINKLER CONTRACTOR SHALL:  
A. PAY FOR ALL PERMIT FEES, INSPECTIONS AND CONNECTION CHARGES AS REQUIRED.  
B. COORDINATE INSTALLATION WITH OTHER TRADES. VERIFY SPACE CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.  
C. SUBMIT SHOP DRAWINGS, EQUIPMENT, AND MATERIAL SUBMITTALS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.  
D. GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.  
E. ALL AUTOMATIC FIRE SPRINKLER PIPING, SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR AS PER FLORIDA ADMINISTRATIVE CODE RULE 4A-46 AND STATE STATUE 489.105(N)
6. SPRINKLER HEADS SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE WITH QUICK RESPONSE ELEMENTS. EACH SPRINKLER SHALL BE LISTED FOR THE OCCUPANCY CLASSIFICATION OF THE ROOM IN WHICH THE SPRINKLER IS INSTALLED. SEE SPRINKLER HEAD SCHEDULE FOR MORE INFORMATION.
7. ALL FIRE PROTECTION SHALL BE IN ACCORDANCE WITH NFPA 13 AND LISTED BY THE AMERICAN SOCIETY FOR TESTING MATERIALS, UL, AND F.M. ALL STEEL PIPING SHALL BE PROTECTED INTERNALLY WITH AN APPROVED ANT MICROBIAL COATING.  
A. ABOVE GROUND PIPING  
A.A. PIPING 2" AND LESS SHALL BE THIN WALL THREADABLE STEEL PIPE. ALLIED DYNA THREAD OR EQUAL. PIPING DROPS TO SPRINKLER HEADS SHALL BE SCH.40 STEEL PIPE.  
A.B. BLAZEMASTER CPVC WITH SOLVENT WELDED FITTINGS IN CONCEALED LOCATIONS WITHIN LIGHT HAZARD OCCUPANCIES. PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. ALL FIRE PROTECTION PIPING SHALL BE TESTED AT 50psi ABOVE THE ANTICIPATED WORKING PRESSURE OF THE PIPE FOR TWO HOURS.
9. MICROBially INDUCED CORROSION (MIC). TO PREVENT MIC. THE FIRE SPRINKLER CONTRACTOR SHALL THOROUGHLY CLEAN ALL NEW STEEL PIPING PRIOR TO COMMISSIONING. STEEL PIPING SHALL BE FREE OF CUTTING OILS, CONSTRUCTIONS DEBRIS. THREADED PIPE "DOPE" SHALL BE APPLIED TO DRY SECTION OF THE PIPE ONLY AND ALL EXCESS REMOVES IMMEDIATELY.

MAXIMUN DISTANCE BETWEEN HANGERS (FT-IN)

| NOMINAL SIZE (IN) | 3/4 | 1    | 1 1/4 | 1 1/2 | 2    | 2 1/2 | 3    | 3 1/2 | 4    | 5    | 6    | 8    |
|-------------------|-----|------|-------|-------|------|-------|------|-------|------|------|------|------|
| CPVC              | 5-6 | 6    | 6-6   | 7-0   | 8-0  | 9-0   | 10-0 | N/A   | N/A  | N/A  | N/A  | N/A  |
| STEEL SCH.40      | N/A | 12-0 | 12-0  | 15-0  | 15-0 | 15-0  | 15-0 | 15-0  | 15-0 | 15-0 | 15-0 | 15-0 |

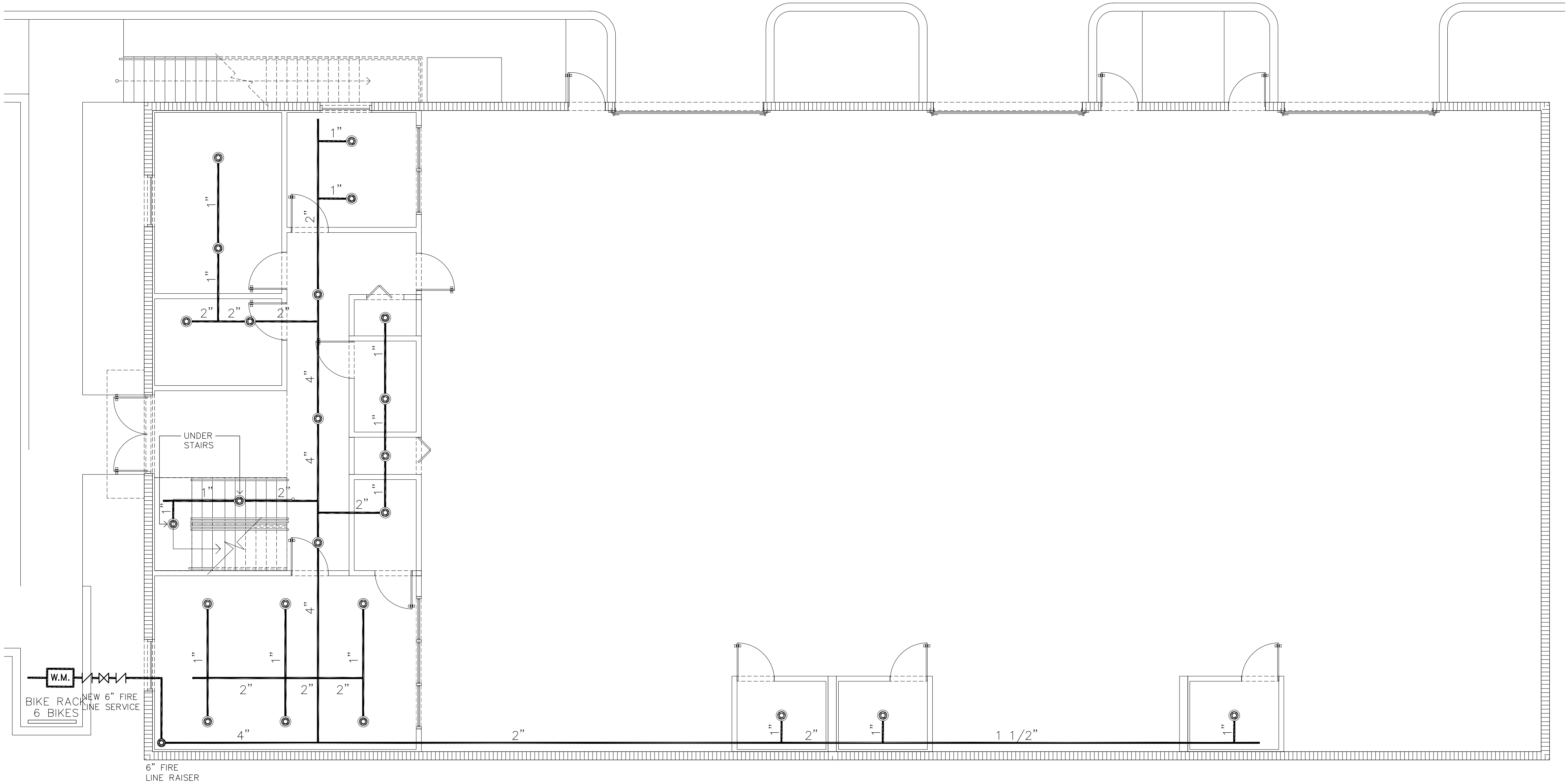
| PIPE SIZE | ROD SIZE | TYPE OF FASTENER                 | MIN. "C" DIM | MAX "C" DIM |
|-----------|----------|----------------------------------|--------------|-------------|
| 3/4"      | 3/8"     | 1-3/8" X 1-17/32" DROP-IN ANCHOR | 1/2"         | 1-8/5"      |
| 1"        |          |                                  | 5/8"         | 1-3/4"      |
| 1-1/4"    |          |                                  | 13/16"       | 1-7/8"      |
| 1-1/2"    |          |                                  | 15/16"       | 2"          |
| 2"        |          |                                  | 1-3/16"      | 2-3/8"      |

PIPE HANGERS



FIRE PROTECTION LEGEND

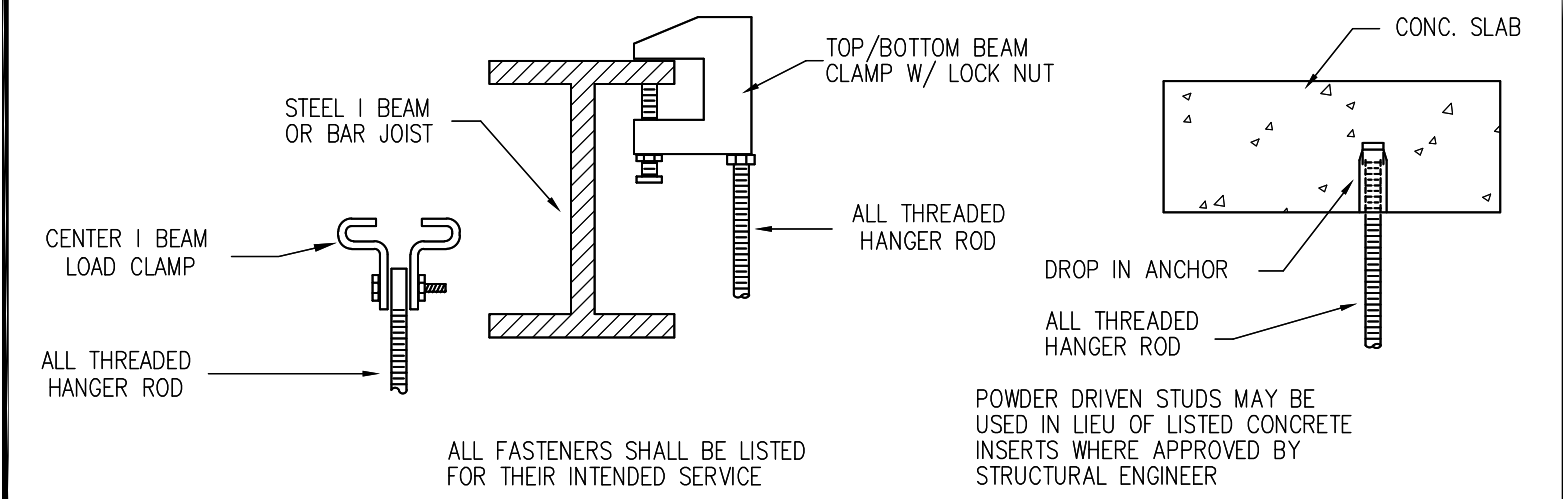
| SYMBOL | DESCRIPTION                  | SYMBOL | DESCRIPTION  |
|--------|------------------------------|--------|--|
|        | NEW UPRIGHT SPRINKLER HEAD   |        | EXISTING FIRE SPRINKLER PIPING   |
|        | NEW CONCEALED SPRINKLER HEAD |        | CONNECT TO EXISTING SPRINKLER BRANCH. VERIFY EXACT LOCATION AND CAPACITY IN FIELD PRIOR TO COMMENCEMENT OF WORK. |
|        | NEW FIRE SPRINKLER PIPING    |        |  |



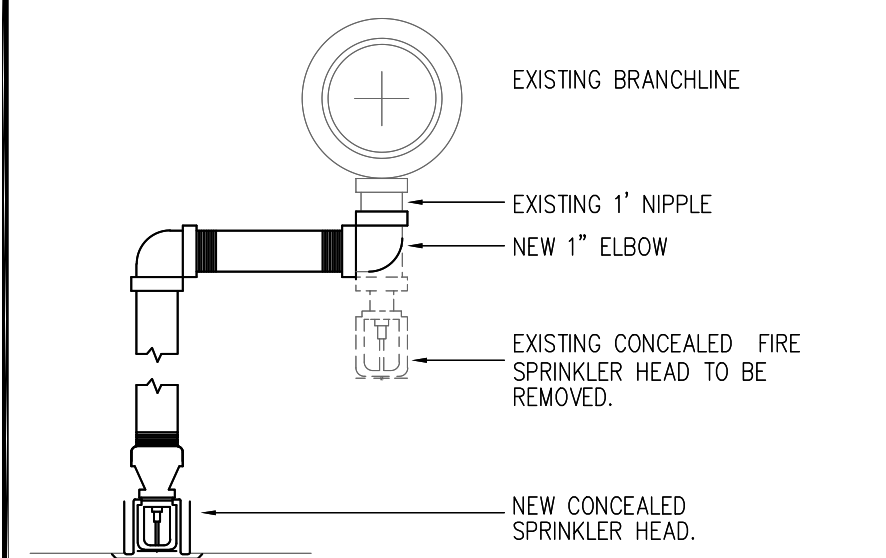
FIRE SPRINKLER PLAN - 1ST LEVEL

SCALE: 3/16" = 1'-0"

FASTENERS

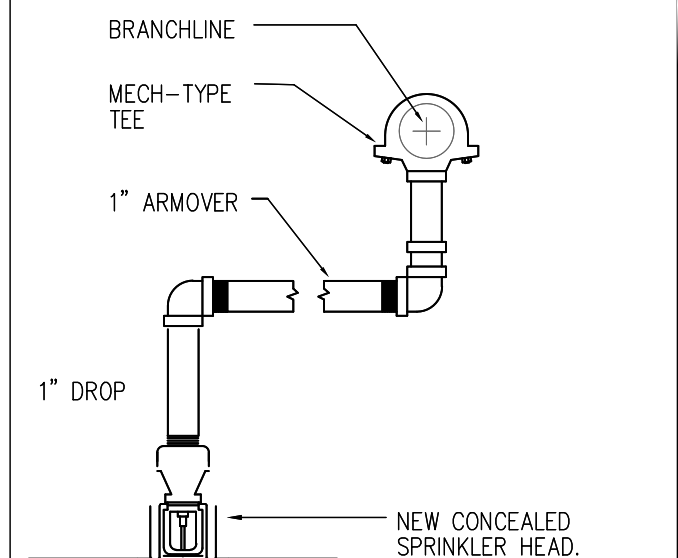


RELOCATION DETAIL



\*ARMOVER GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

ARMOVER DETAIL

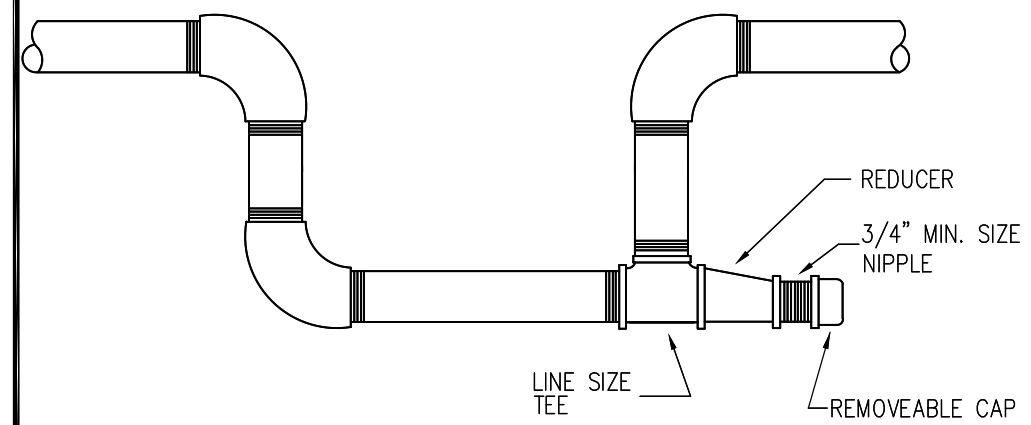


\*ARMOVER GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

FIRE SPRINKLER NOTE

FIRE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER SHOP DRAWINGS, INCLUDING SPECIFICATIONS FOR ALL SPRINKLER HEAD. TO BE SUBMITTED UNDER SEPARATE PERMIT FOR REVIEW BEFORE COMMENCEMENT OF WORK.

AUXILIARY DRAIN DETAIL



TRAPPED WATER VOLUME >5 GAL. < 50 GAL.: 3/4" MIN DRAIN VALVE REQ'D.  
TRAPPED WATER VOLUME >50 GAL.: 1" MIN. DRAIN VALVE PIPED TO AN ACCESSIBLE LOCATION REQ'D.

Oscar Cabeza  
Digitally signed by Oscar Cabeza  
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CODE IN EFFECT: 2017 Florida Building Code

PZ18-12000037  
10/06/2020

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AIR & HEAT

PROJECT NUMBER: 18-1233

DATE: 09.08.20

DRC REV.1 01.10.19

AAC 09.08.20

SHEET TITLE  
**FIRE SPRINKLER PLAN**  
**1ST LEVEL**  
SCALE: AS NOTED

SHEET NO.  
**1**