

NOTES:

CONTRACTORS SHALL COORDINATE WITH EACH OTHER TO VERIFY EQUIPMENT NAMEPLATE RATINGS AND LOCATIONS BEFORE INSTALLATION OF CONDUIT, WIRING, CIRCUIT BREAKER, DISCONNECT SWITCH, OR FUSES. WHERE FUSED DISCONNECTS ARE SPECIFIED IN THE ELECTRICAL CONSTRUCTION DOCUMENTS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE APPROPRIATELY SIZED FUSES.

NOTES:

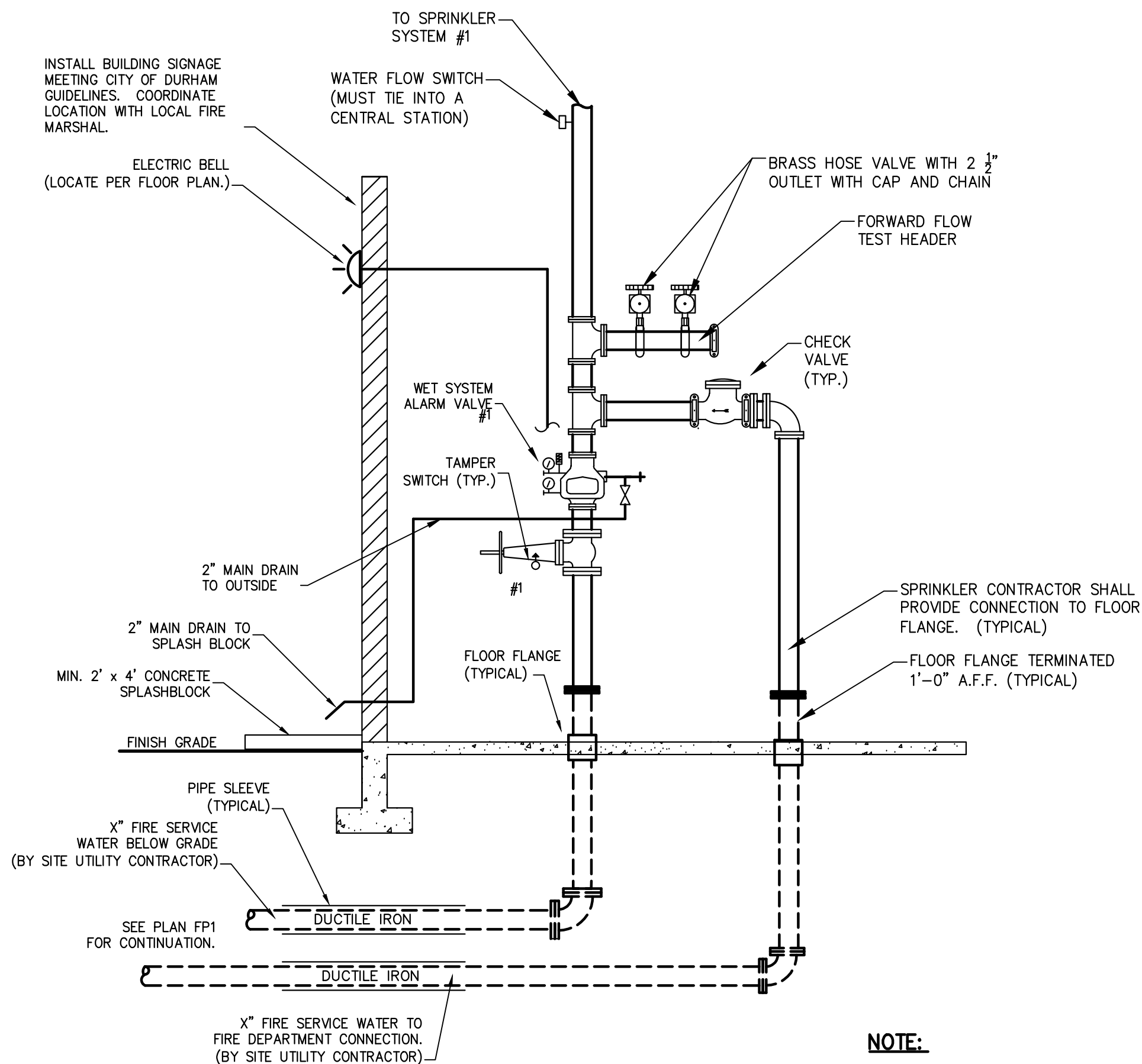
EQUIPMENT PROVIDED BY NON-ELECTRICAL SUBCONTRACTORS SHALL BE INSTALLED BY THE SUBCONTRACTOR PROVIDING THE EQUIPMENT. THIS INSTALLATION SHALL INCLUDE:

1. ALL POWER CONDUIT AND WIRING ON THE LOAD SIDE OF THE DISCONNECT SWITCH.
2. ALL CONTROLS AND CONTROL CONDUIT AND WIRING.

ALL CONDUIT AND WIRING (POWER AND CONTROL) INSTALLED BY THE NON-ELECTRICAL SUBCONTRACTORS SHALL BE INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR PER THE DIVISION 26 SPECIFICATIONS AND SHALL BE INSPECTED BY THE ELECTRICAL INSPECTOR HAVING JURISDICTION.

8 Motor / Equipment Installation - Division of Work

FP1.2 SCALE: NONE



1 Sprinkler & Entrance Riser Detail

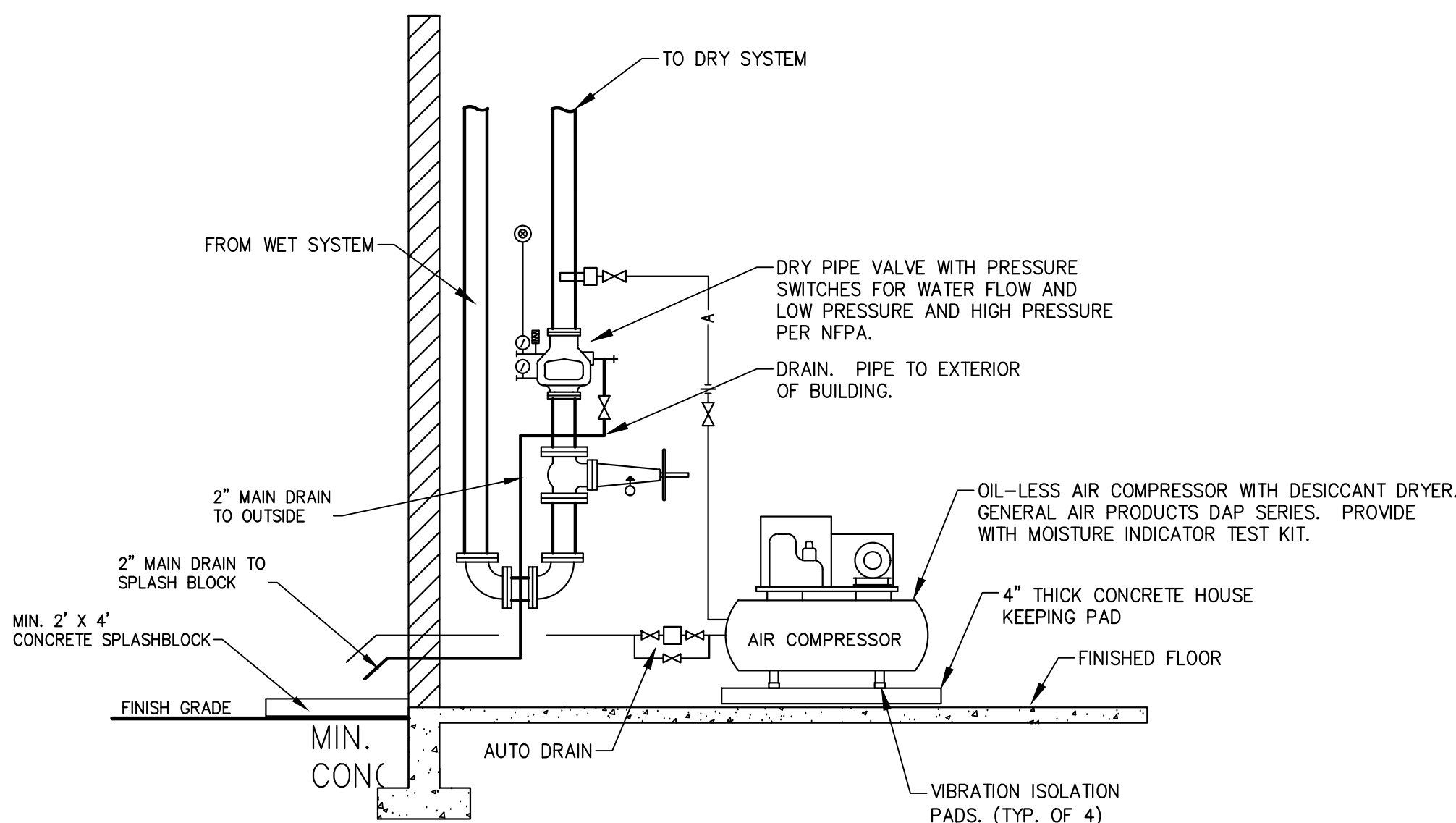
FP1.2 SCALE: NONE

GENERAL SPRINKLER INSTALLATION NOTES:

- A. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN STRICT ACCORDANCE WITH NFPA 13 - 2013 EDITION, THE NORTH CAROLINA BUILDING CODE, AND WITH ALL OTHER STATE, COUNTY, AND LOCAL AUTHORITIES HAVING JURISDICTION.
- B. THE AUTOMATIC SPRINKLERS, PIPING AND EQUIPMENT LOCATED ON THE DRAWINGS ARE DIAGRAMMATIC, ARE FOR COORDINATION, AND DO NOT CONSTITUTE ALL COMPONENTS OF A COMPLETE AND OPERATING AUTOMATIC SPRINKLER SYSTEM. THE CONTRACTOR SHALL PROVIDE COMPLETE COVERAGE THROUGHOUT ALL BUILDING AREAS INCLUDING EQUIPMENT AND OBSTRUCTIONS OR DUCTWORK AS INDICATED BY NFPA-FULLY TESTED AND PLACED IN SERVICE.
- C. ALL SPRINKLER WORK SHALL BE PERFORMED BY A FIRE SPRINKLER CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA.
- D. PIPING FOR WET-PIPE SYSTEMS SHALL BE SCHEDULE 40 BLACK STEEL WHERE THREADED, AND SCHEDULE 10 OR 40 BLACK STEEL WHERE JOINED BY GROOVE MECHANICAL FITTINGS. THREADED FITTINGS SHALL BE CAST IRON OR MALLEABLE PER NFPA 13. ALL DRAIN PIPING SHALL BE GALVANIZED STEEL. ALL UNDERGROUND PIPING SHALL BE DUCTILE IRON.
- E. SPRINKLERS INSTALLED WITHIN AREAS OF LAY-IN ACOUSTIC TYPE OR OTHER THAN LAY-IN TYPE FINISHED CEILINGS SHALL BE RECESSED STYLE SPRINKLERS UNLESS NOTED OTHERWISE ON PLANS. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF LAY-IN ACOUSTIC CEILING TILE. EXPOSED SPRINKLERS IN AREAS WITH NO CEILINGS SHALL BE BRASS UPRIGHT OR PENDENT AS THE CONDITION REQUIRES. SPRINKLERS LOCATED WITHIN AREAS OF DANGER OF DAMAGE SHALL HAVE PROTECTIVE WIRE GUARDS. REFER TO AUTOMATIC SPRINKLER LEGEND FOR ADDITIONAL INFORMATION.
- F. PROVIDE SPRINKLERS IN MECHANICAL EQUIPMENT ROOMS AS REQUIRED TO AVOID OBSTRUCTIONS AND TO PROVIDE COMPLETE COVERAGE. PROVIDE MINIMUM CLEARANCES FROM HEATERS, HOT PIPES, ELECTRICAL EQUIPMENT, ETC. PROVIDE CODE REQUIRED MINIMUM CLEARANCES OVER AND IN FRONT OF ELECTRICAL PANELS. REFER TO THE NC ELECTRIC CODE (NFPA 70). COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- G. INSTALL ALL SPRINKLERS USING "RETURN BENDS." SPRINKLERS LOCATED IN GYPSUM BOARD OR PLASTER CEILINGS (INCLUDING GYPSUM BOARD CEILINGS WITH VENEER FINISH) SHALL BE LOCATED IN LINE WITH OTHER CEILING ELEMENTS IN THE CEILING (SUCH AS LIGHTS, DIFFUSERS, ETC.) AND IN A SYMMETRIC MANNER AS SHOWN ON THE FIRE PROTECTION PLANS AND/OR THE ARCHITECTURAL REFLECTED CEILING PLANS. FLEXIBLE SPRINKLER HEAD CONNECTIONS SHALL NOT BE ALLOWED.
- H. PROVIDE FIRE STOP AT PIPE PENETRATIONS THROUGH FIRE RATED PARTITIONS AND WALLS. ALL NON RATED WALLS SHALL BE SEALED AS DETAILED.
- I. ALL PIPING SHALL BE LOCATED CONCEALED ABOVE CEILING AND IN WALLS OR CHASES UNLESS LOCATED IN AREAS WITH NO CEILING. ALL PIPING EXPOSED TO VIEW OR TO THE OUTDOORS SHALL BE CLEANED AND PAINTED WITH (1) COAT PRIMER AND (2) COATS OF APPROVED RED PAINT. THIS INCLUDES ALL MECHANICAL AND ELECTRICAL ROOMS. LABEL ALL EXPOSED PIPING "FIRE SERVICE" PER SPECIFICATIONS.
- J. ALL PIPE CUTTING OIL TO BE BIODEGRADABLE.
- K. INSPECTOR'S TEST AND DRAINS SHALL BE PIPED TO AN APPROVED OUTDOOR LOCATION.
- L. ALL PIPING (INCLUDING FDC PIPING) SHALL BE FLUSHED AND HYDROSTATICALLY TESTED PER NFPA.
- M. SUBMIT "WORKING" SHOP DRAWINGS HYDRAULIC CALCULATIONS, AND EQUIPMENT BROCHURES TO THE ENGINEER OF REVIEW AS OUTLINED IN SPECIFICATIONS BY ELECTRONIC FILE OR HARD COPIES. NO SPRINKLER INSTALLATION SHALL BE STARTED PRIOR TO APPROVAL. PREPARATION OF THE WORKING DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE LICENSED FIRE SPRINKLER CONTRACTOR AND SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER OR NICET LEVEL III (MINIMUM) TECHNICIAN. WORKING SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED IN STRICT ACCORDANCE AND DEFINED BY NFPA 13. DRAWINGS SHALL INCLUDE PIPE SIZES AND ELEVATIONS, BUILDING SECTIONS, DUCTWORK, LIGHTS, DIFFUSERS, ETC. INCLUDE OTHER TRADES SUCH AS STRUCTURAL, PLUMBING, ETC. AS NECESSARY FOR A COMPLETE AND COORDINATED SET OF WORKING DRAWINGS.

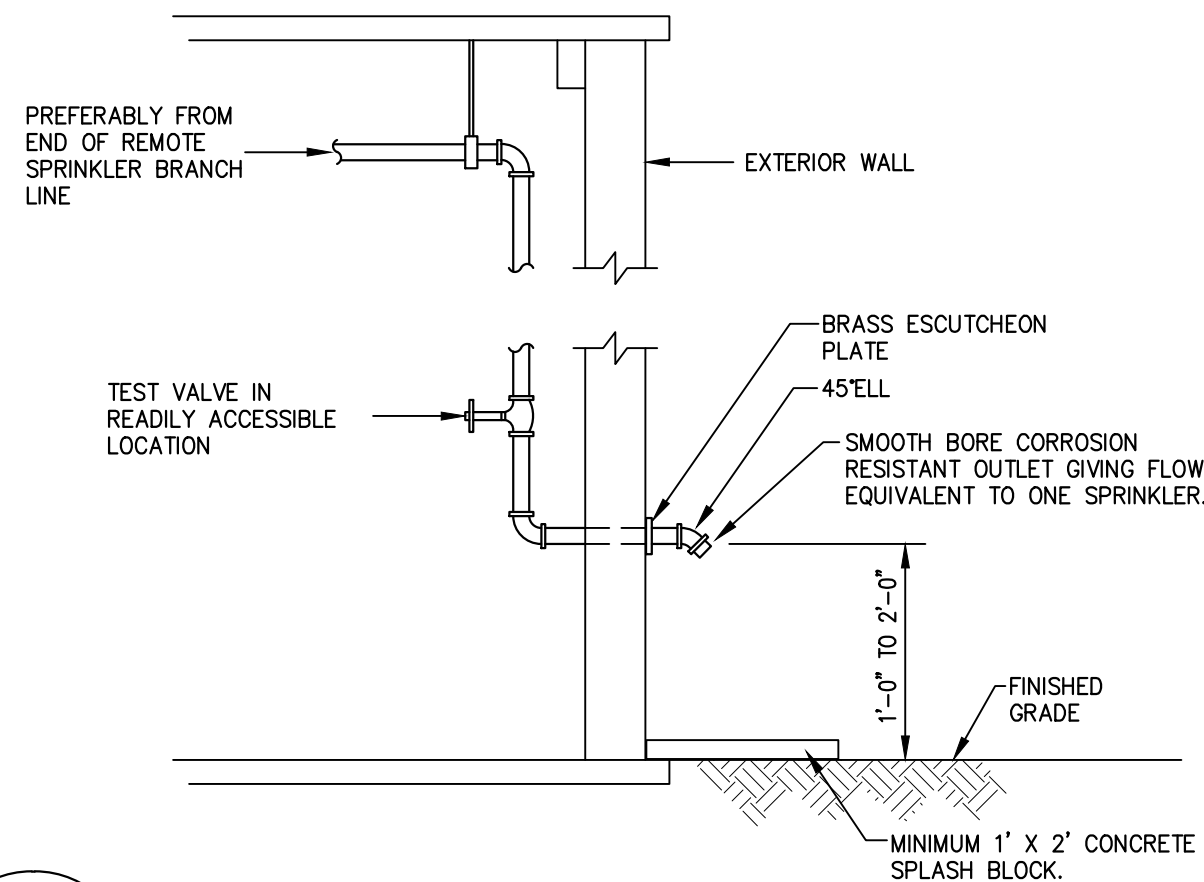
2 Dry Pipe System - Outdoor Storage

FP1.2 SCALE: NONE



NOTE:

1. ENTIRE ASSEMBLY MUST MEET CITY OF DURHAM GUIDELINES.
2. SHOP DRAWINGS MUST MEET ENGINEERS AND LOCAL FIRE MARSHAL'S OFFICE APPROVAL PRIOR TO INSTALLATION.
3. CONTRACTOR INSTALLATION SHALL INCLUDE A ROLL OF DRAWINGS ENCASED IN A SECTION OF PVC PIPE WITH CARPED ENDS MAIN RISER. STRAP PIPE TO WALL AND LABEL "FIRE PROTECTION SHOP DRAWINGS".
4. ALL EXPOSED PIPING MUST BE PAINTED WITH A MINIMUM OF 1 COAT PRIMER AND 1 COAT OF BRIGHT RED PAINT.
5. UNDERGROUND PIPE INSTALLATION SHALL BE PART OF THE UTILITY CONTRACT, SPRINKLER CONTRACTORS WORK SHALL START 1'-0" A.F.F. THE SPRINKLER CONTRACTOR SHALL BE A SUB. TO THE GENERAL CONTRACTOR.

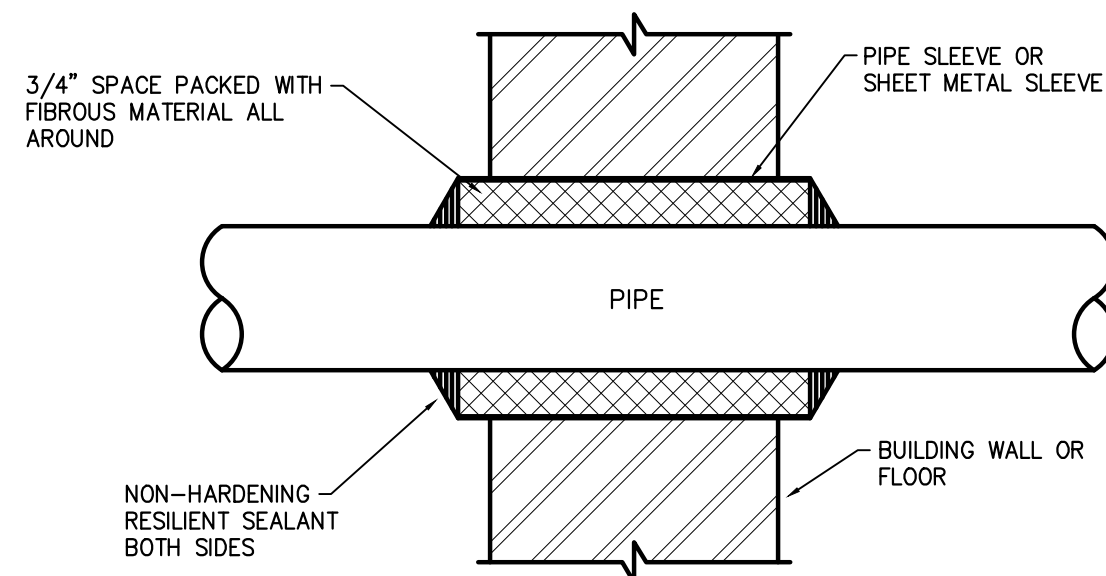


7 Inspector's Test Connection Detail

FP1.2 SCALE: NONE

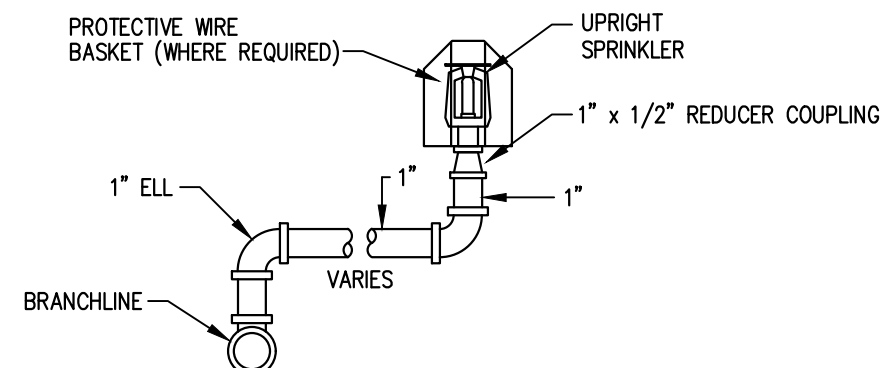
NOTE:

1. ALL EXPOSED PIPING MUST BE PAINTED WITH A MINIMUM OF (1) COAT PRIMER AND (2) COATS OF BRIGHT RED PAINT.



6 Typical Wall Penetration Details

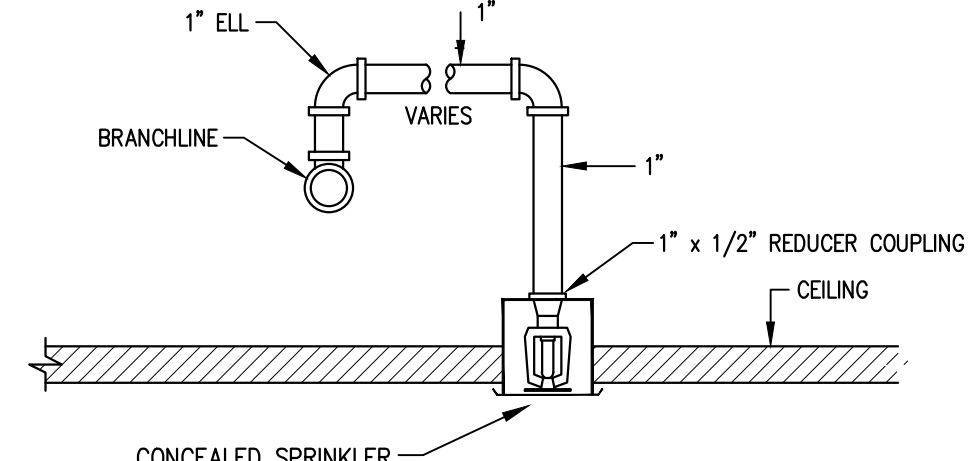
FP1.2 SCALE: NONE



5 Sprinkler Return Bend Detail

FP1.2 SCALE: NONE

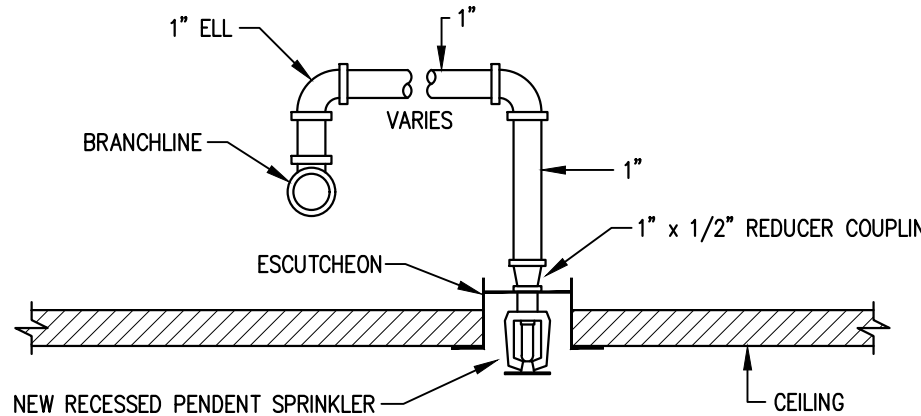
Upright Style



4 Pendent Sprinkler Return Bend Detail

FP1.2 SCALE: NONE

Concealed Style



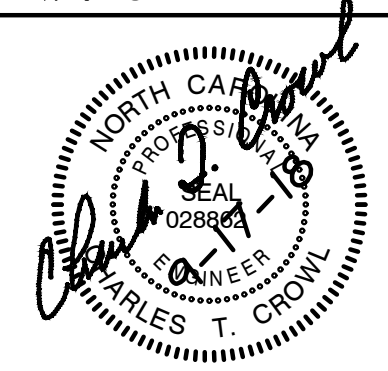
3 Sprinkler Return Bend Detail

FP1.2 SCALE: NONE

Recessed Style

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NEW FACILITIES
SERVICE BUILDING FOR:

**DURHAM
TECHNICAL
COMMUNITY
COLLEGE**

1700 COOPER ST.
DURHAM, NC

SCO PROJECT
NUMBER
17-16794-01A

PROJECT NUMBER
17-034

Fire Protection Details

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CONSTRUCTION DOCUMENTS

Revisions

Drawn LDH

Checked CTC

Date SEPTEMBER 17, 2018

Sheet

FP1.2

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