

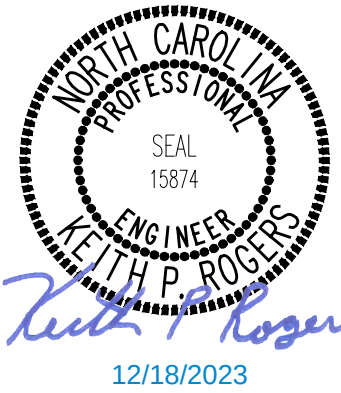


ARCHITECTURE | INTERIOR DESIGN
LANDSCAPE ARCHITECTURE

300 S. DAWSON STREET
RALEIGH, NC 27601 | 919.821.5547
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SEALS

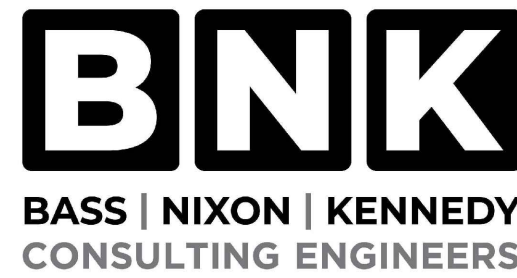


PROJECT

ROOMS TO GO - PHASE II EXPANSION

901 Rooms To Go Way
Dunn, NC 28334

CONSULTANTS



ENGINEERING FIRM NUMBER: C-0110

6310 CHAPEL HILL ROAD, SUITE 250
RALEIGH, NC 27607
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901 Rooms to Go Way
Dunn, NC 28334
(910) 292-3505

DRAWING TITLE

FIRE SPRINKLER COVER

REVISIONS

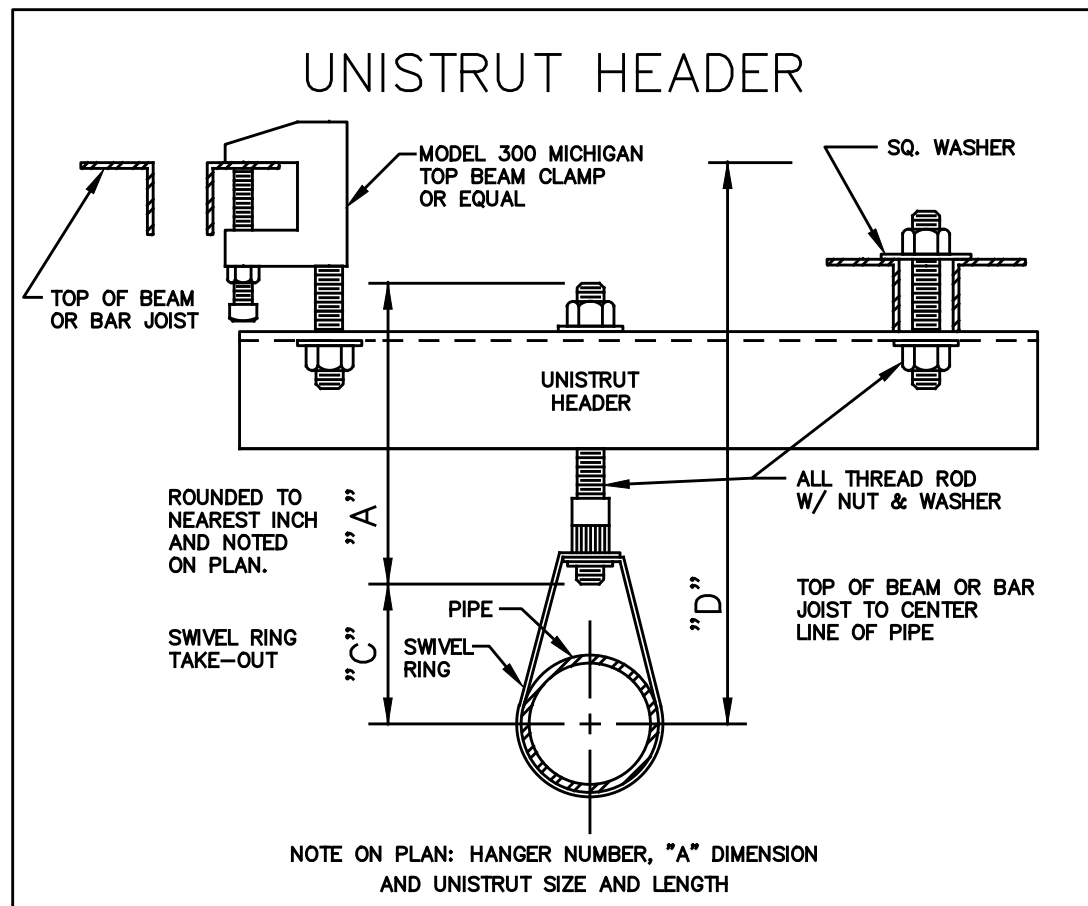
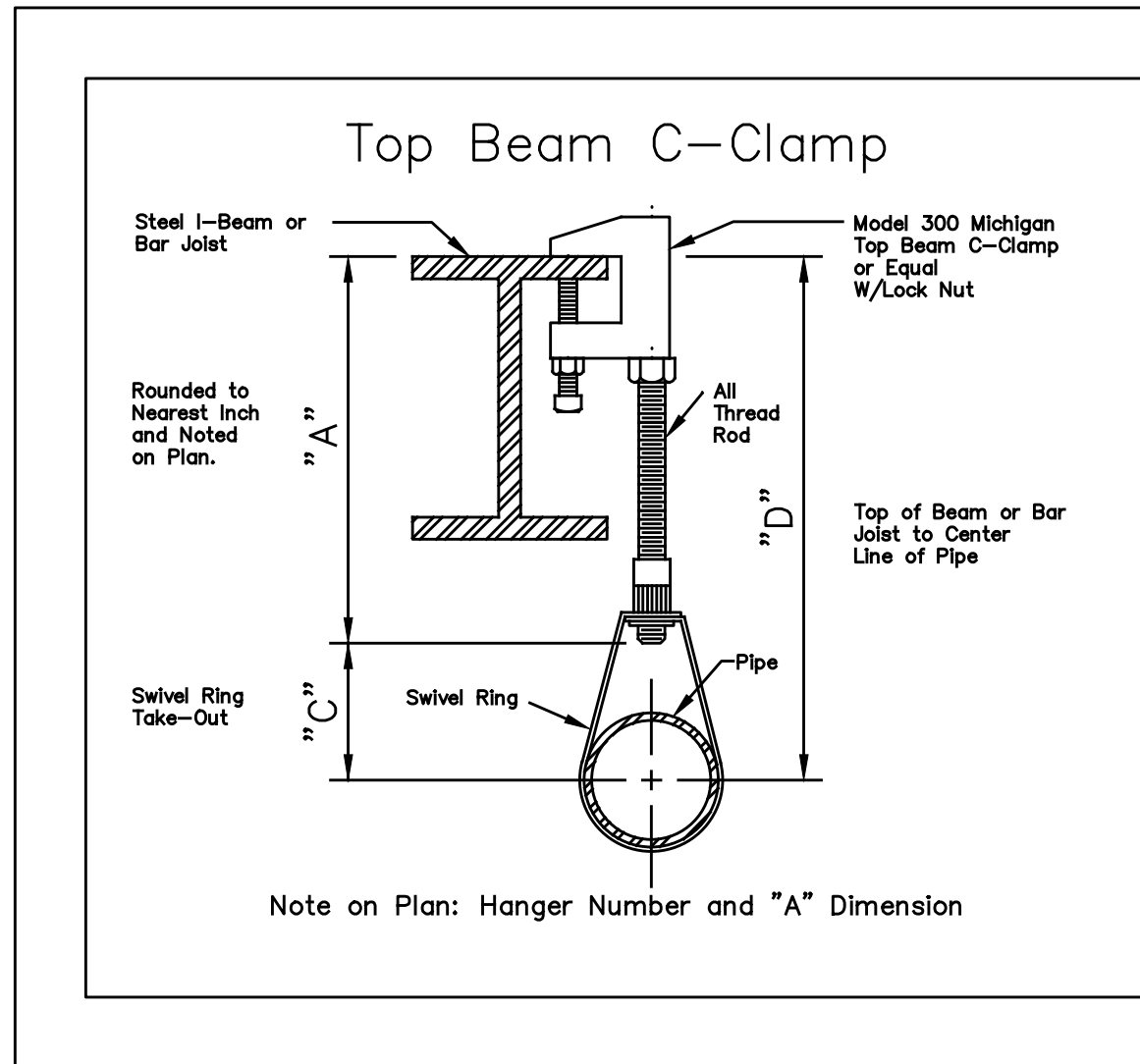
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DATE ISSUED: **12/18/23** 1 OF 3

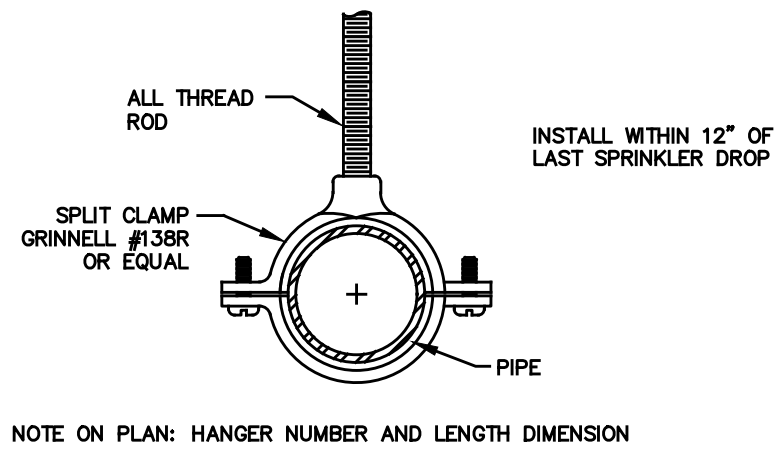
F-001

FIRE SPRINKLER DESIGN CRITERIA

- DESIGN CRITERIA BASED ON NFPA 13, 2019 EDITION
- OVERHEAD ESFR SYSTEM, 22.4K PENDENT HEADS, CALCULATED AT 40PSI PER HEAD FOR 12 HEADS.
- PENDENT SPRINKLERS WITH A NOMINAL K-FACTOR OF K-22.4 SHALL BE POSITIONED SO THAT DEFLECTORS ARE A MAXIMUM 18 IN. AND A MINIMUM 6 IN. BELOW THE CEILING.
- BUILDING HEIGHT IS 42 FEET AT PEAK, WITH STORAGE ARRANGEMENT UP TO 35 FEET.
- PALLET RACKS / 48" PALLET RACKS - CLASS I-H COMMODITY / UNCARTONED UNEXPANDED GROUP A PLASTICS / ENTIRE WAREHOUSE ROOF LEVEL SPRINKLER SYSTEM
 - OPEN RACK - 6" TRANSVERSE FLUE SPACES PROVIDED EVERY 5 FEET MAXIMUM ALONG LENGTH OF RACK RUN.
 - OPEN RACK - 6" TRANSVERSE FLUE SPACES PROVIDED EVERY 5 FEET MAXIMUM ALONG LENGTH OF RACK RUN (BETWEEN EACH PALLET LOAD OF PRODUCT).
 - 35 FT STORAGE HEIGHT.
- SINGLE / DOUBLE / MULTI-ROW RACK STORAGE
 - NFPA 13 (2019 EDITION), TABLE 23.3.1 - 12 ESFR 22.4 @ 40 PSI
- OFFICE / TOILET / JANITOR AREAS
 - OFFICE AREAS SHALL BE PROTECTED IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCY.
- FIRE SPRINKLER CONTRACTOR INSTALLATION, COORDINATION & RESPONSIBILITY STATEMENT:
 - THE SPRINKLER CONTRACTOR IS TO REVIEW AND UNDERSTAND THE ENTIRE SCOPE OF THE SPRINKLER WORK, AND TO FULLY COORDINATE LOCATIONS OF SPRINKLER PIPING AND HEADS WITH ALL DRAWINGS AND DESIGN DOCUMENTS TO AVOID, OR PROTECT BENEATH, ALL OBSTRUCTIONS.
 - ALL POTENTIAL SPRINKLER OBSTRUCTIONS WILL NOT BE IDENTIFIED ON THE DRAWINGS AND DESIGN DOCUMENTS. SOME WILL BECOME NECESSARY DUE TO VARIOUS INFRASTRUCTURE AND OTHER CONDITIONS THAT WILL OCCUR DURING FIRE PROTECTION FULL-DESIGN AND THE OVERALL SET OF CONSTRUCTION ACTIVITIES.
 - IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO DESIGN FOR AND FIELD COORDINATE ALL NECESSARY SPRINKLER LOCATIONS TO PROVIDE PROTECTION BENEATH OR AROUND ANY AND ALL OBSTRUCTIONS AS REQUIRED BY NFPA 13.
 - SPRINKLER CONTRACTOR SHALL COORDINATE THOROUGHLY WITH ALL OTHER TRADES TO ENSURE ADEQUATE PROTECTION IS PROVIDED.
 - THE OWNER, DESIGN ENGINEERS, AND ARCHITECTS SHALL NOT BE RESPONSIBLE FOR PROBLEMS OR COSTS ASSOCIATED WITH CONTRACTOR COORDINATION.
- SHELL SPRINKLER DESIGN BASED ON STORAGE CRITERIA PROVIDED BY OWNER. ACTUAL RACK AND STORAGE CONFIGURATIONS ARE NOT AVAILABLE AT THIS TIME.
- 2018 NORTH CAROLINA FIRE CODE INFORMATION 3201.3 SHALL BE PROVIDED UNDER A SEPARATE UPFIT DRAWINGS AND PERMIT ONCE THE ACTUAL STORAGE AND LAYOUT IS DETERMINED.
- SEE CIVIL SITE DRAWINGS FOR EXISTING FIRE LOOP LAYOUT AND FIRE LOOP EXTENSION.
- EXISTING WATER SUPPLY IS 1 X DIESEL FIRE PUMP (2000 GPM @ 125 PSI) AND 1 X ELECTRIC FIRE PUMP (2000 GPM @ 125 PSI), PUMPS ARE FED VIA 2 X 250,000 GAL ABOVE GROUND WATER STORAGE TANKS. SEE CIVIL SITE PLANS FOR EXACT LOCATIONS OF PUMPS AND TANKS.



LAST BRANCH LINE SPRINKLER DROP SUPPORT HANGER RING DETAIL (USE WHEN PRESSURE EXCEEDS 100 PSI)



1 TYPICAL HANGER DETAILS SCALE: NTS

GENERAL NOTES

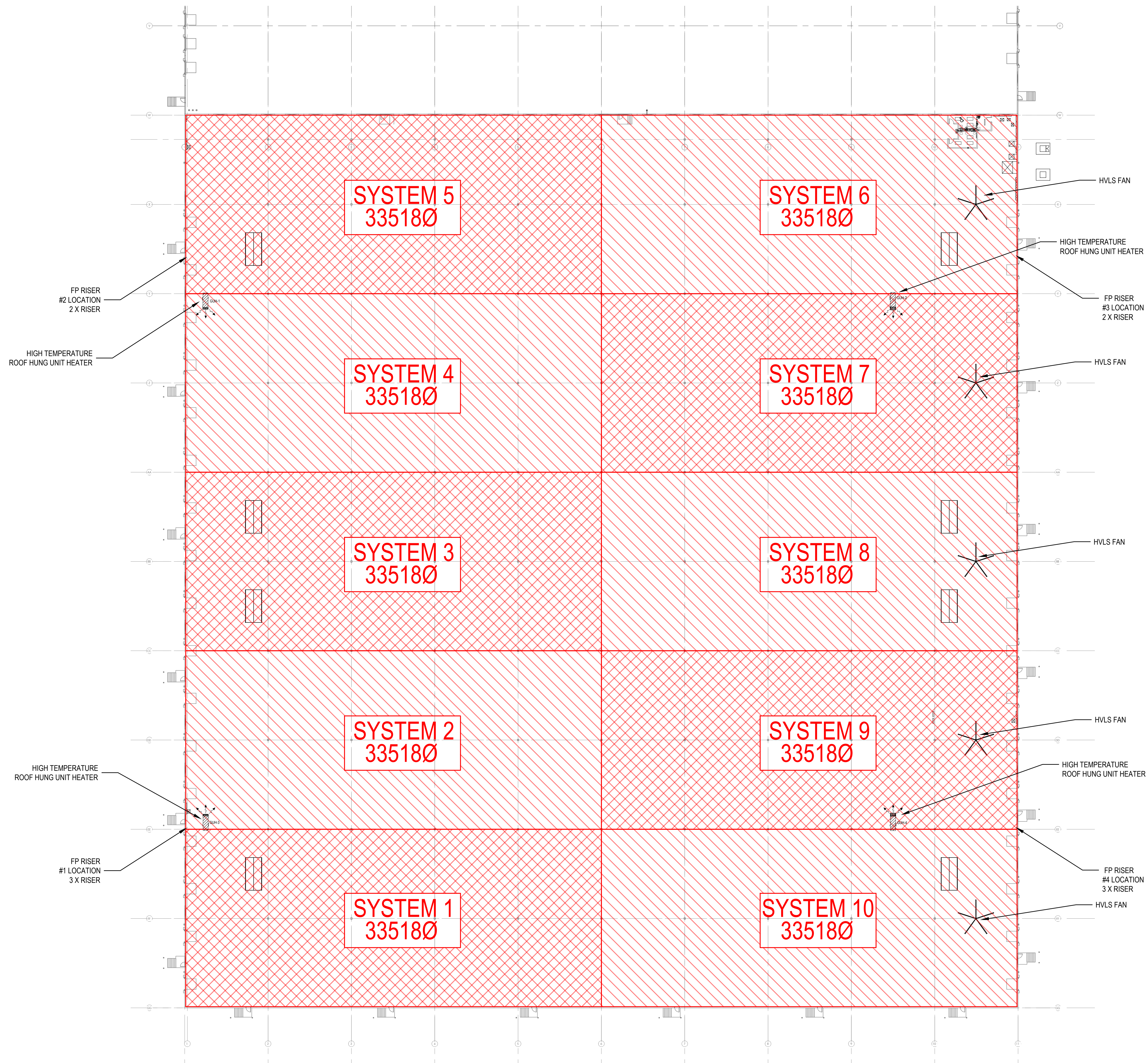
- CONTRACTOR SHALL PIPE ALL SPRINKLERS IN A PIPING CONFIGURATION SIMILAR TO EXISTING BUILDING PIPING CONFIGURATION.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH NFPA 13 (2019), STATE BUILDING CODE, LOCAL FIRE MARSHALL AND INSURANCE UNDERWRITERS REQUIREMENTS.
- THE DRAWINGS ARE DIAGRAMMATIC AND METHODS SHOWN MAY NOT SHOW EVERY SPRINKLER FITTING, VALVE, OR HANGER REQUIRED FOR APPROVAL BY AUTHORITIES HAVING JURISDICTION (AHJ). THE PIPING METHODS SHOWN DO NOT RELIEVE THE CONTRACTOR FROM INSTALLING THE SYSTEM PER NC BUILDING CODE OR TO THE APPROVAL OF THE AHJ OR ENGINEER. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE, FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK AND IMMEDIATELY CONTACT THE ENGINEER IF EXISTING CONDITIONS ARE NOT AS SHOWN. THE BID SHALL INCORPORATE ALL WORK REQUIRED TO MEET THE APPROVAL OF THE ENGINEER AND THE AHJ. THE WORK REQUIRED SHALL LEAVE THE SYSTEM(S) COMPLETE AND OPERATIONAL.
- CALL FOR INSPECTIONS BY THE AHJ AS REQUIRED FOR APPROVAL.
- FIRESTOP ALL RATED PENETRATIONS WITH A LISTED UL SYSTEM TO MATCH RATING OF WALL OR FLOOR.
- COORDINATE THE SHUTDOWN OF ANY SPRINKLER SYSTEM WITH THE OWNER.
- RETURN SPRINKLER SYSTEM TO NORMAL OPERATION AS SOON AS POSSIBLE. PROVIDE TEST BLANKS AS REQUIRED TO MINIMIZE THE LOSS OF PROTECTION TO OTHER AREAS. THE SYSTEM SHALL BE RESTORED TO NORMAL AT THE END OF WORK EACH DAY. A SPRINKLER FITTER SHALL REMAIN ON SITE AT ALL TIMES WHILE THE CONTROL VALVE IS SHUT.
- CONTRACTOR SHALL OBTAIN APPROVAL OF ENGINEER PRIOR TO MAKING CHANGES TO SPRINKLER SYSTEM INSTALLATION AND PROVIDE AS-BUILT PLANS AND/OR REVISED HYDRAULIC CALCULATIONS TO THE ENGINEER UPON COMPLETION OF WORK AT NO COST TO THE ENGINEER OR OWNER.
- ALL NEW PIPING 1-1/4" AND LARGER SHALL BE SC 10 BLACK STEEL PIPE. ALL NEW PIPING 1" AND SMALLER SHALL BE SC 40 BLACK STEEL PIPE. ALL FITTINGS SHALL BE VICTAULIC OR APPROVED EQUAL.
- CONTRACTOR SHALL PROVIDE LOW POINT DRAINS AS REQUIRED AND COORDINATE DISCHARGE WITH OWNER AND LOCATION OF DRAIN PIPING WITH OTHER TRADES.
- SPRINKLER CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SPRINKLER PIPING WITH ELECTRICAL AND MECHANICAL CONTRACTOR AND PROVIDE ADEQUATE CLEARANCES FOR DUCT WORK AND LIGHT FIXTURES. ALL SPRINKLERS SHALL BE INSTALLED LOCATED CENTER OF CEILING TILE UNLESS NOTED OTHERWISE.
- ALL COORDINATION BETWEEN TRADES AND OF INTENDED INSTALLATION PROCEDURES SHALL BE COMPLETED AND ALL CONFLICTS RESOLVED PRIOR TO BEGINNING WORK.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND COORDINATE SPRINKLER SYSTEM INSTALLATION WITH ALL OTHER TRADES AND THE OWNERS REPRESENTATIVE PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION LOCATIONS OF SPRINKLERS WITH ALL OTHER TRADES AND CONFIRM COMPLETE COMPLIANCE OF ALL REQUIRED CLEARANCES TO SPRINKLER DEFLECTORS AS REQUIRED BY NFPA 13 (2019).

SEISMIC DESIGN NOTE

SEISMIC DESIGN CATEGORY: C
RISK CATEGORY: II
SITE CLASSIFICATION: D

REFER TO BOOK SPECIFICATIONS FOR COMPLETE SEISMIC DESIGN REQUIREMENTS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC.:

FIRE SUPPRESSION: 21 0548
PLUMBING SECTION: 22 0548
MECHANICAL SECTION: 23 0548
ELECTRICAL SECTION: 26 0548



1 FIRE SPRINKLER OVERALL PLAN
SCALE: 1" = 30'



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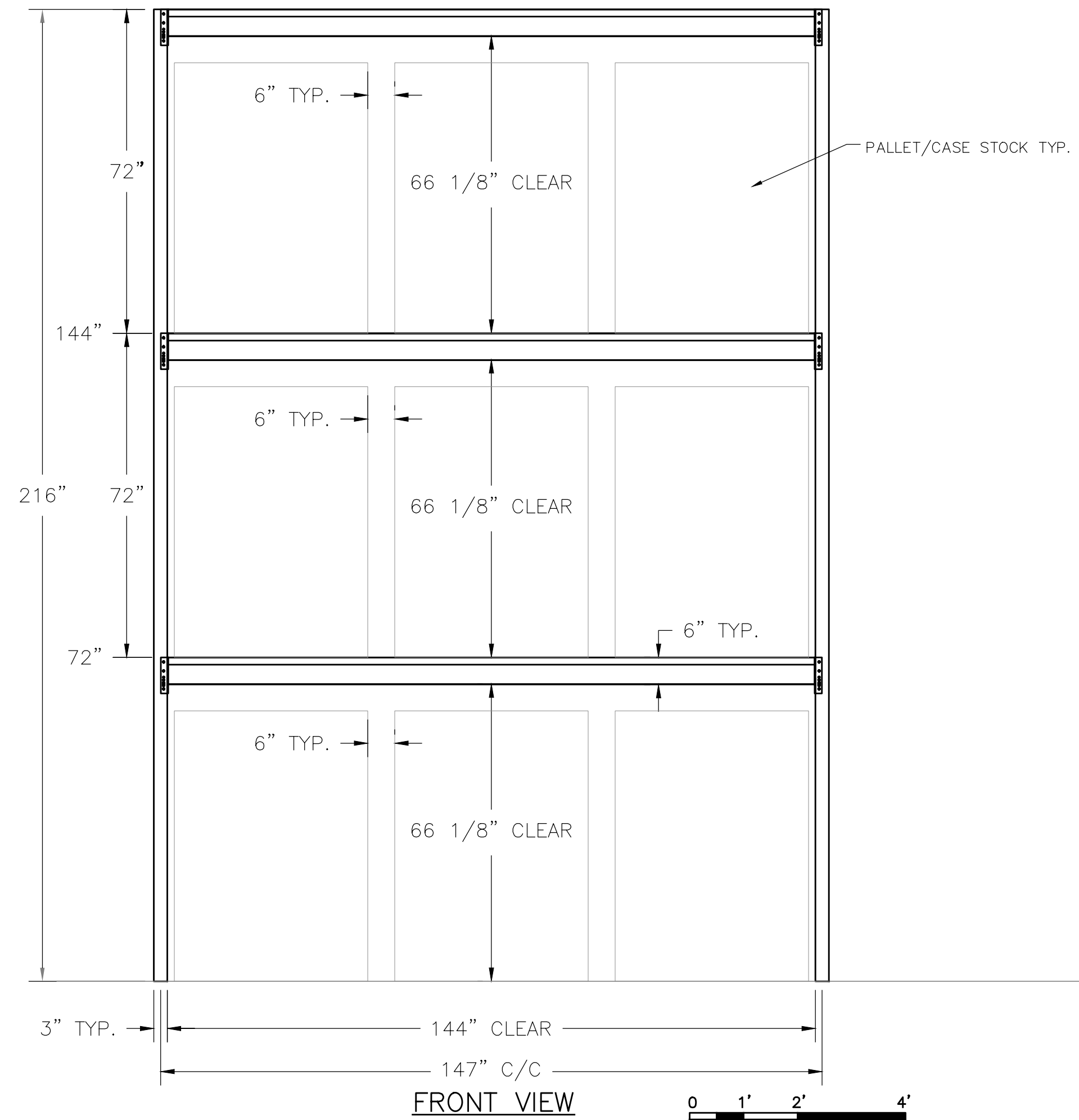
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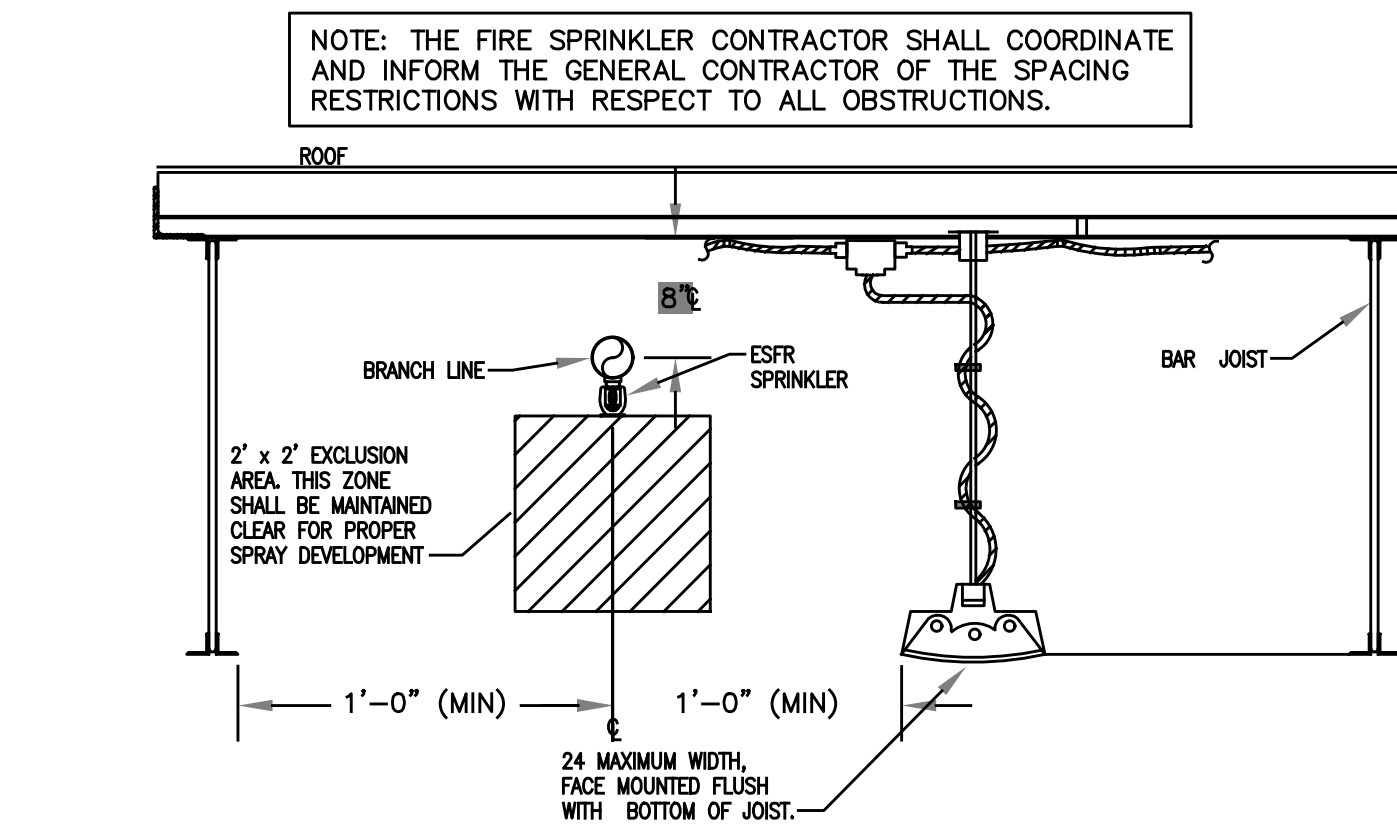
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OVERALL FIRE SPRINKLER PLAN

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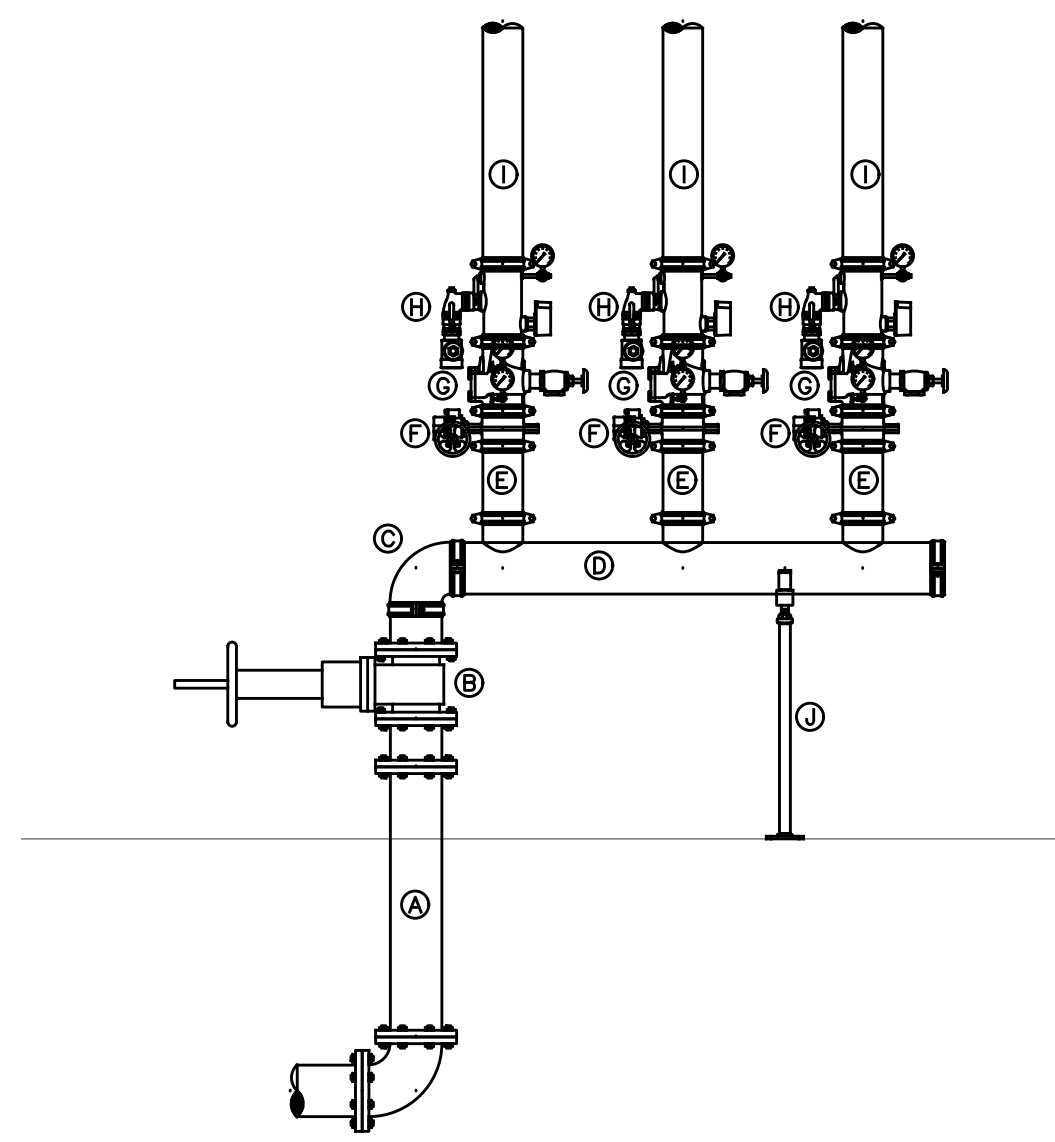
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1 6" FLUE SPACE ARRANGEMENT DETAIL
SCALE: NONE



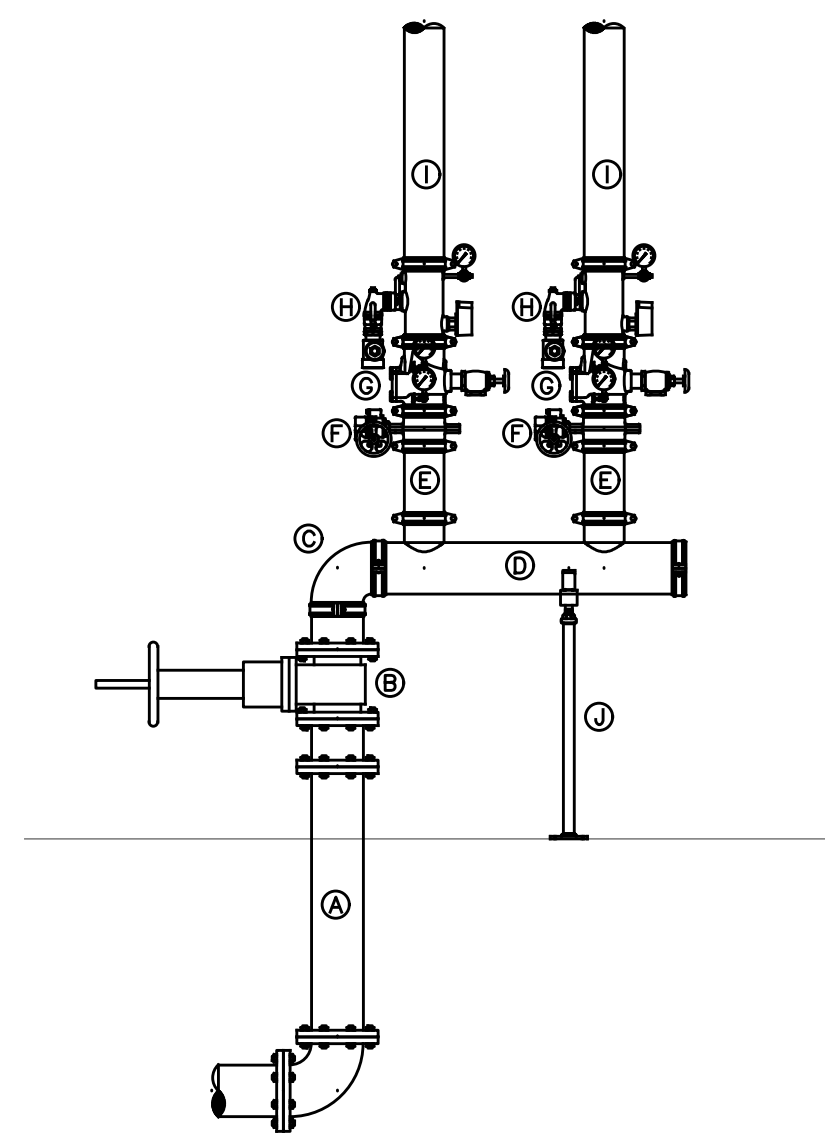
2 ESFR OBSTRUCTION CLEARANCE DETAIL
SCALE: NONE



3 3X WET RISER DETAIL
SCALE: NONE

RISER LEGEND

- (A) 8" DIP RUN IN FROM SITE
- (B) 8" WALL POST INDICATOR
- (C) 8" SHORT 90 EL
- (D) 8" SCH 10 GxG PIPE
- (E) 6" SCH 10 GxG PIPE
- (F) 6" BUTTERFLY
- (G) 6" RISER CHECK
- (H) 6" RELIABLE COMMERCIAL RISER
- (I) 6" SCH 10 GxG PIPE TO SYSTEM
- (J) 2" ADJUSTABLE PIPE STAND



4 2X WET RISER DETAIL
SCALE: NONE

RISER LEGEND

- (A) 8" DIP RUN IN FROM SITE
- (B) 8" WALL POST INDICATOR
- (C) 8" SHORT 90 EL
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FIRE SPRINKLER DETAILS

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