

SPRINKLER DESIGN DATA

PROJECT NAME: ANTIOCH BAPTIST CHURCH: MULTIPURPOSE BUILDING

SYSTEM NO.: NET

PROJECT LOCATION: 6670 Old US 421

SYS. SQ. FT.: VARIES

DESIGNED BY: CFP

PH#: 919-207-3855

CEILING HGT.: VARIES

OCCUPANCY DESCRIPTION: MULTIPURPOSE

HAZARD CLASS: LIGHT

HAZARD CLASS: LIGHT

DESIGN SUMMARY

DESIGN METHOD: CALC

DESIGN AREA NO.: 2

LOCATION: ABOVE CEILING

TYPE OF SYSTEM: WET PIPE

HAZARD CLASS: LIGHT

CRITERIA FROM: NFPA 13

DESIGN AREA: 1132

SPKLR. SPACING: 225 MAX

DENSITY: 0.1

K-FACTOR: 5.6K

HOSE ALLOWANCE: 100

DESIGN SPKLR.: 13

REQUIREMENTS

Bottom of Riser

232.16

320.799

36.637

70.239

500

10

13

WATER SUPPLY INFORMATION

TESTED BY: DREW KING

DATE: 6-17-2026

LOCATION: TEST

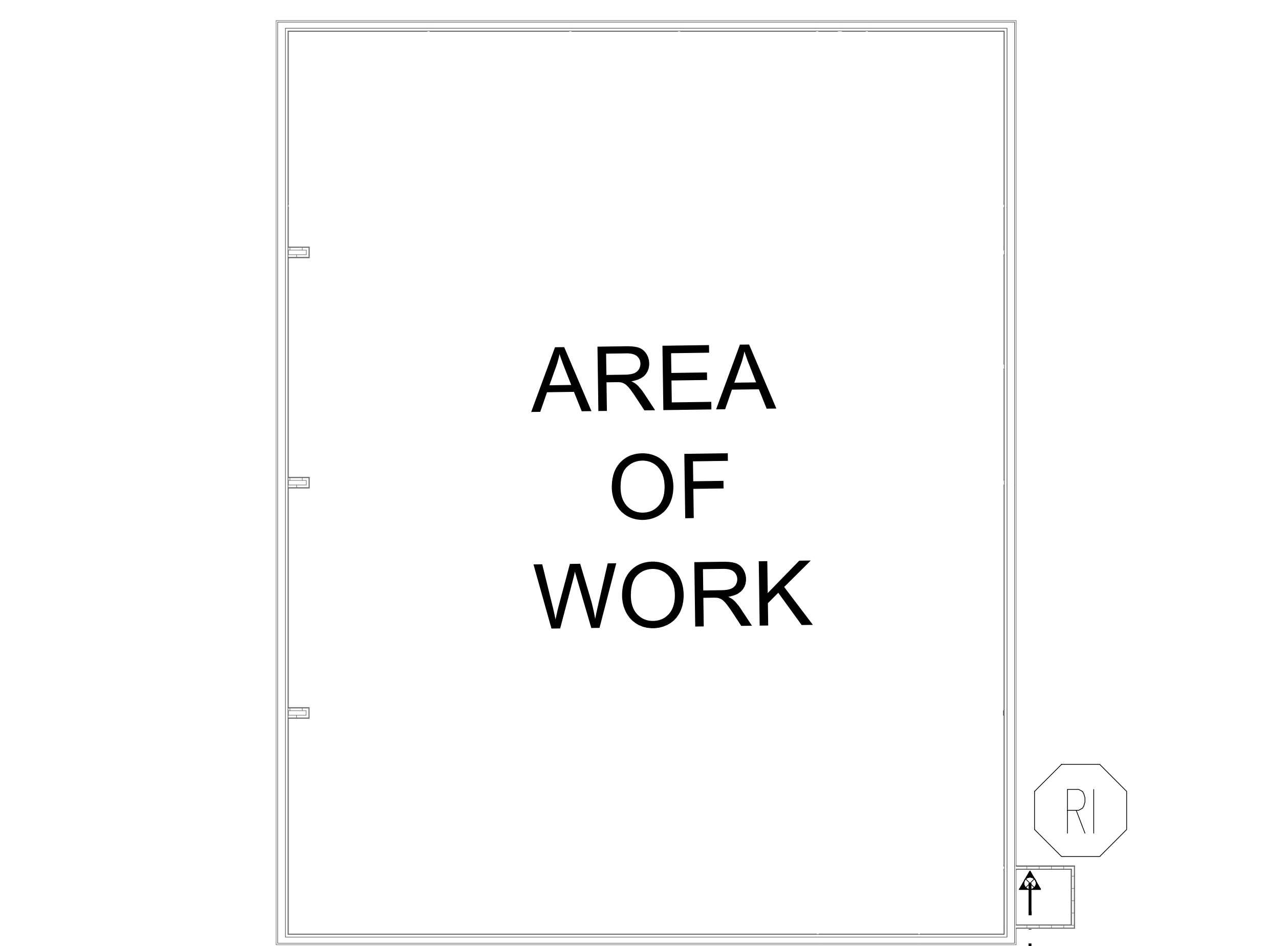
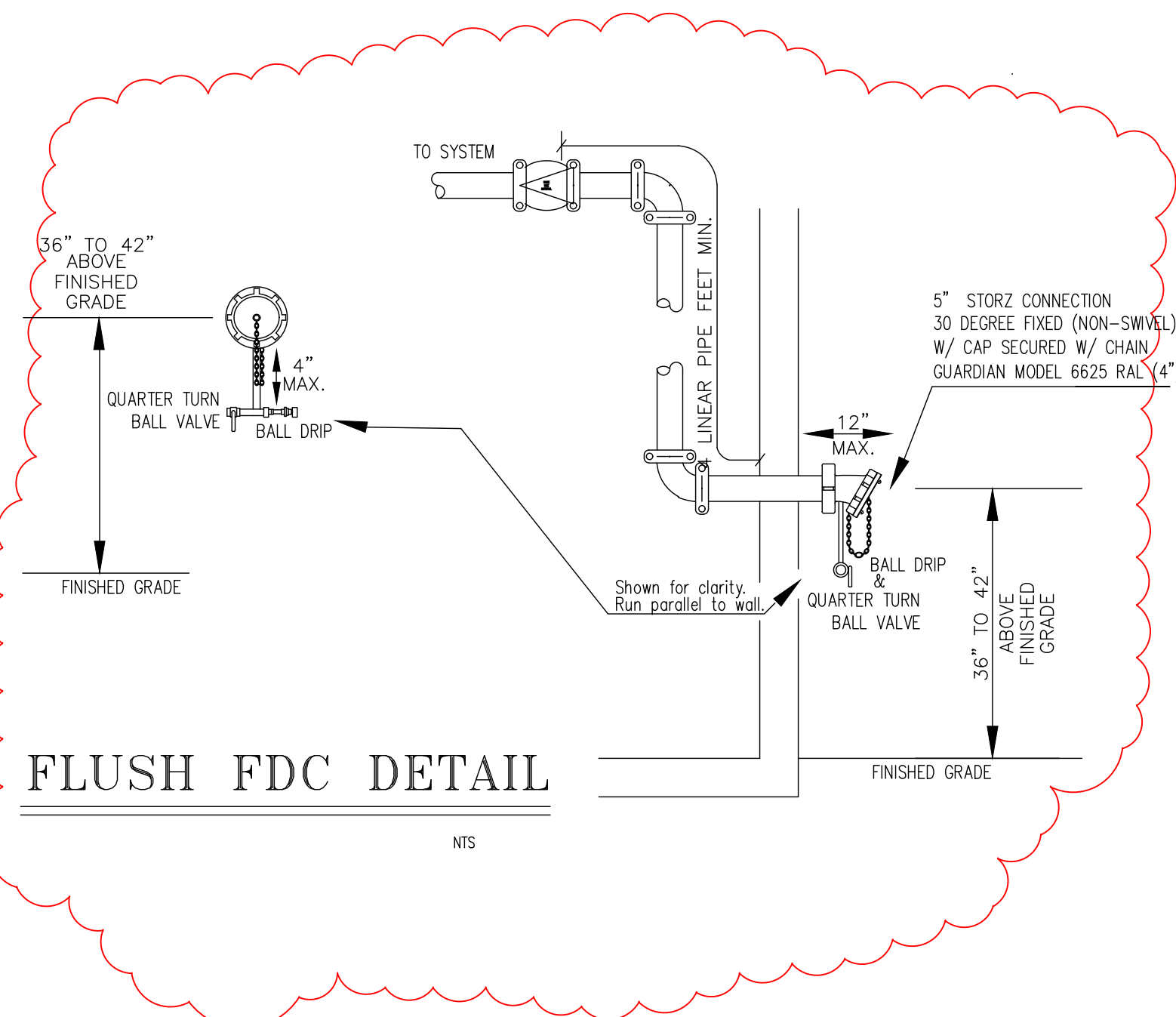
STATIC (PSI): 107

RESIDUAL (PSI): 42

FLOW (GPM): 1456

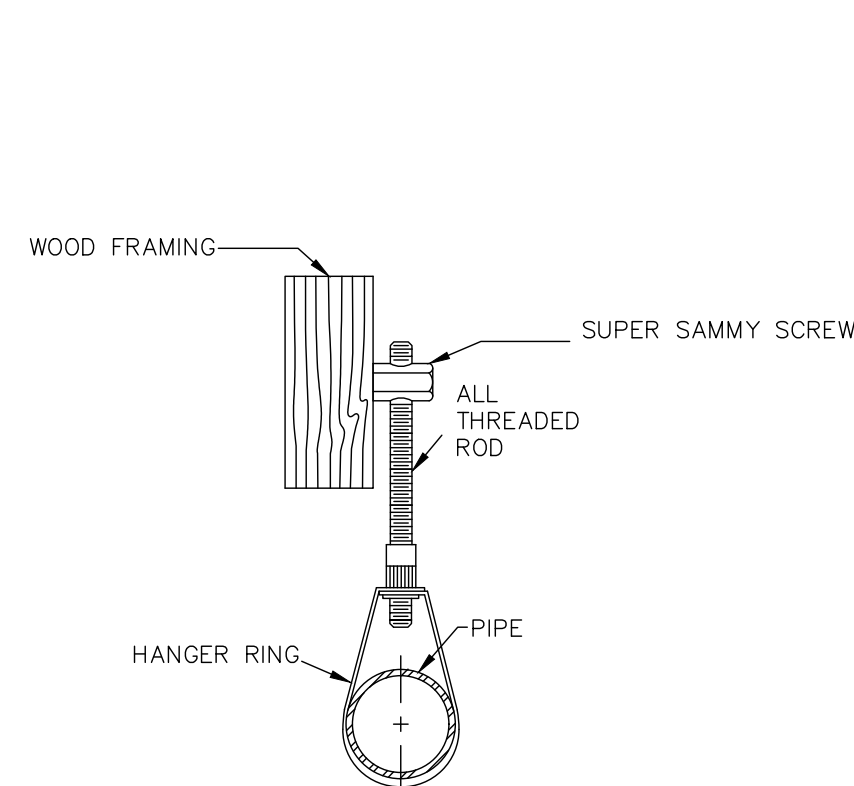
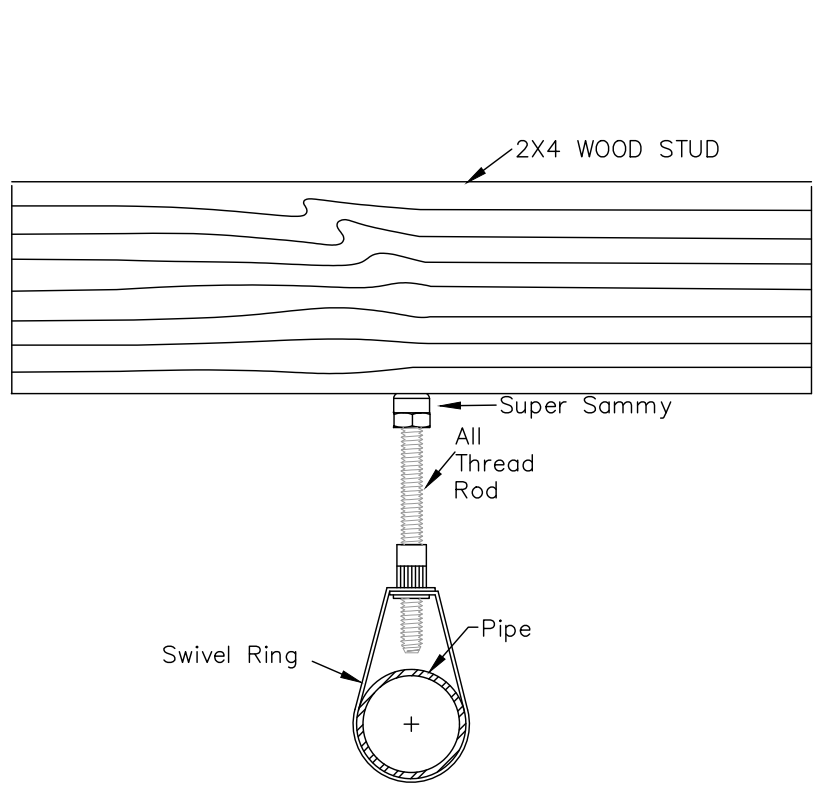
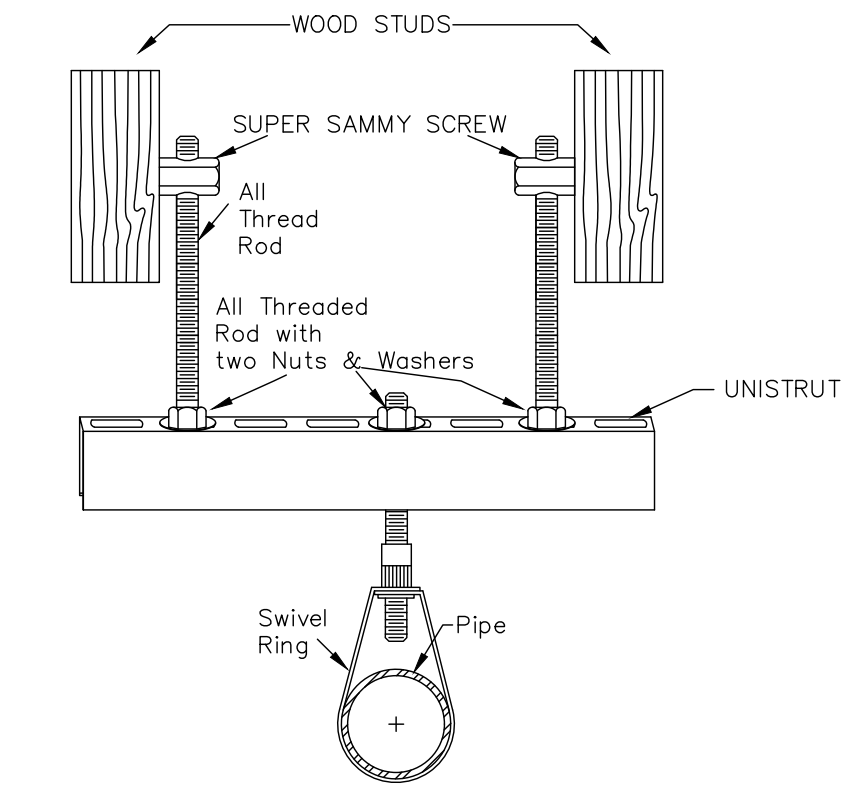
IS COPY OF WATER TEST DATA INCLUDED WITH CALCULATIONS? : ☒ YES ☐ NO

IS STORAGE HEIGHT GREATER THAN 12 FEET? : ☐ YES ☒ NO

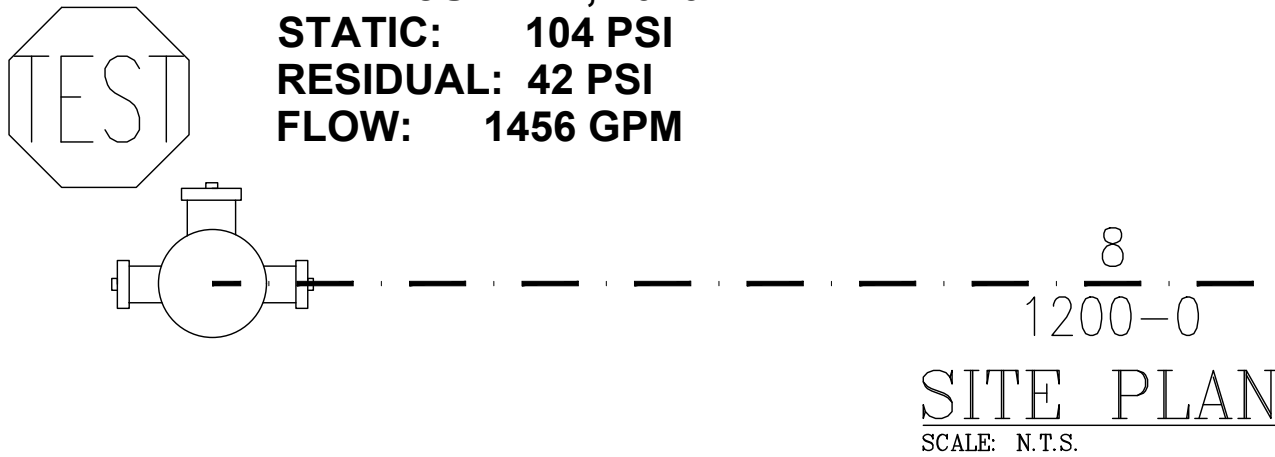


- LEGEND
- DENOTES EXISTING FIRE PROTECTION PIPING
 - DENOTES NEW FIRE PROTECTION PIPING
 - DENOTES UNDERGROUND PIPING
 - DENOTES HYDRAULIC REFERENCE NODE
 - DENOTES RISE IN PIPE
 - DENOTES WET RISER
 - DENOTES PENDENT
 - DENOTES UPRIGHT
- GENERAL NOTES
- ALL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 13, 2013 Ed., LOCAL AHJ, AND THE NORTH CAROLINA STATE BUILDING CODE.
 - ALL LABOR AND MATERIALS REQUIRED SHALL BE FOR ONE COMPLETE WORKING SYSTEM WHICH MEETS ALL REQUIREMENTS OF NFPA 13 2013 Ed., LOCAL AHJ, AND THE NORTH CAROLINA STATE BUILDING CODE.
 - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED AND APPROVED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - SPRINKLER HEADS ARE SPACED PER LIGHT HAZARD SPRINKLER SPACING NOT TO EXCEED 225 SQ. FT.
 - ALL SCH. 40 PIPE FOR SIZES 1"-2" SHALL BE BLACK WITH THREADED ENDS AND JOINED BY BLK. DUCTILE IRON THREADED FITTINGS.
 - ALL SCH. 10 PIPE FOR SIZES 1 1/2"-6" SHALL BE BLACK WITH GROOVED ENDS AND JOINED BY FACTORY PAINTED GROOVED COUPLINGS AND FITTINGS.
 - PIPE HANGERS TO BE INSTALLED PER NFPA 13.
 - PIPE SIZED BY HYDRAULIC CALCULATIONS TO MEET SYSTEM DEMAND PER NFPA 13 2013 Ed.
 - REMOTE AREA REDUCED PER 11.2.3.2.3.1
 - SMALL ROOM RULE USED PER NFPA 13 2013ED, 8.6.3.2.4.1

HANGER INSTALLATION REQUIREMENTS																		
MAXIMUM DISTANCE BETWEEN HANGERS																		
NOMINAL PIPE SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
BLAZEMASTER CPVC	5' 6"	6' 0"	6' 6"	7' 0"	8' 0"	9' 0"	10' 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
THREADED LIGHTWALL	N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STEEL PIPE (10/40)	N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



WATER TEST
BY: DREW KING
DATE: JUNE 17, 2026
STATIC: 104 PSI
RESIDUAL: 42 PSI
FLOW: 1456 GPM

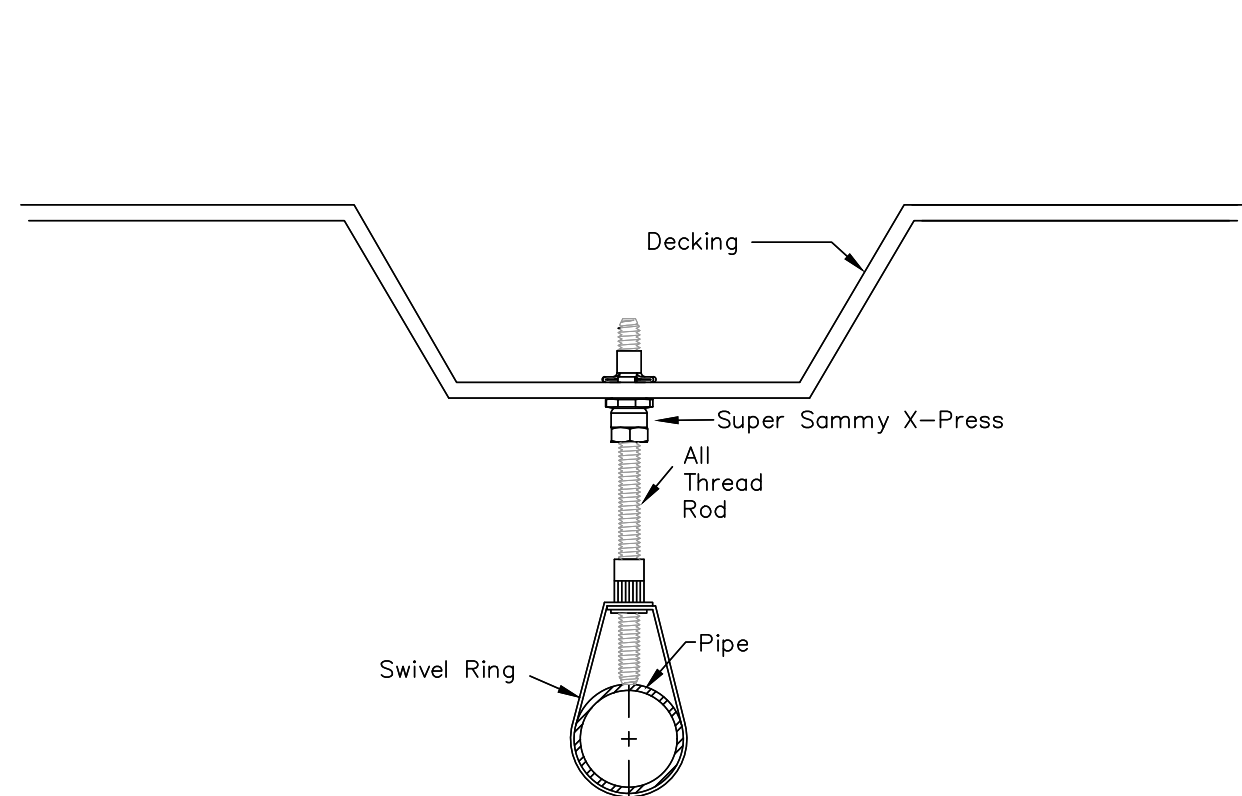
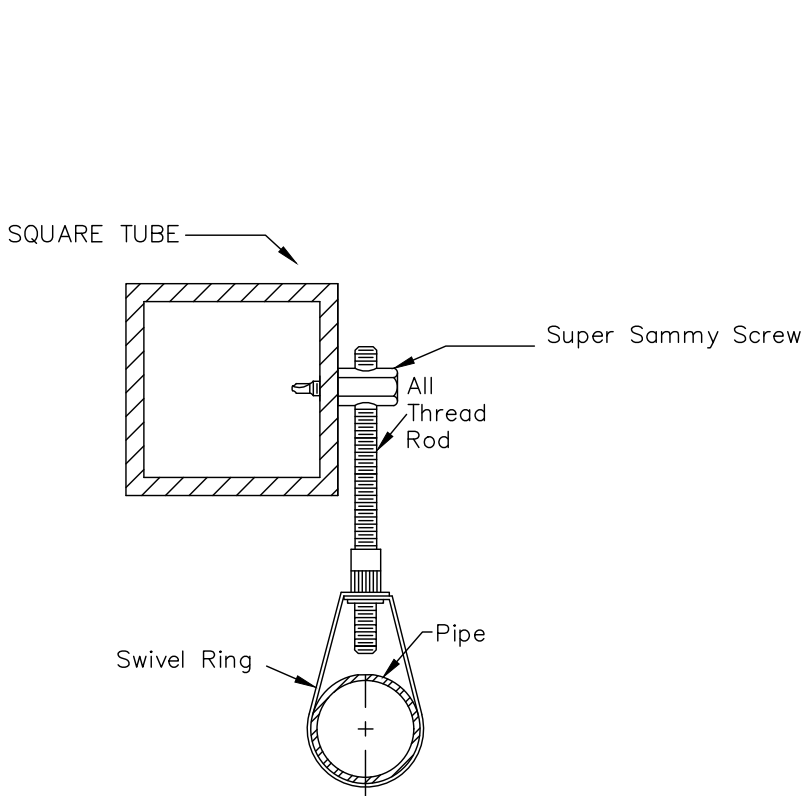
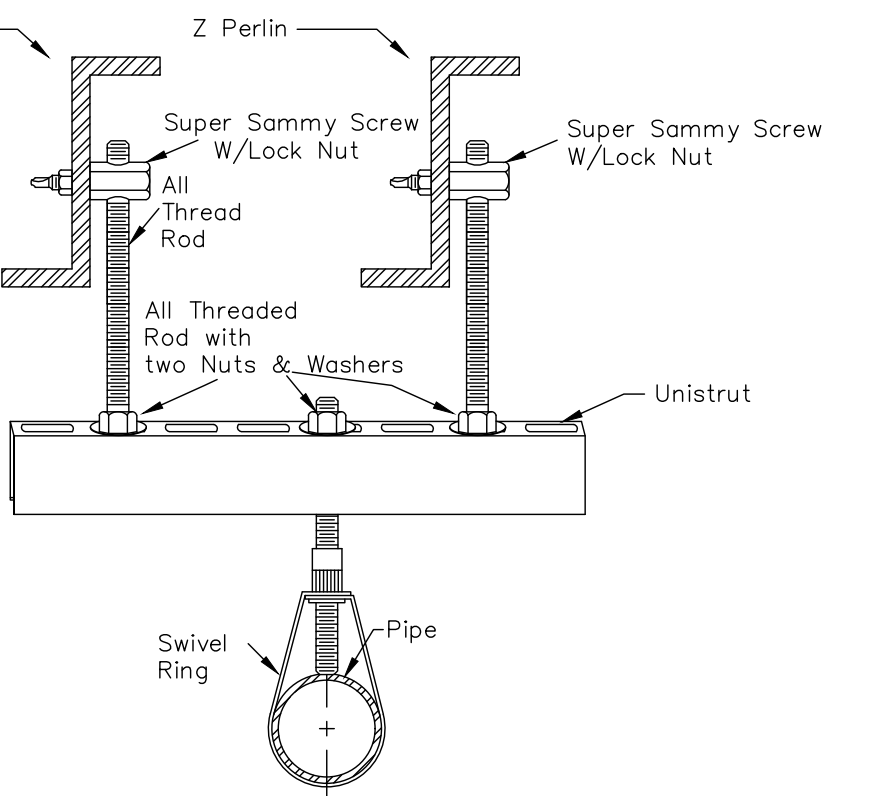
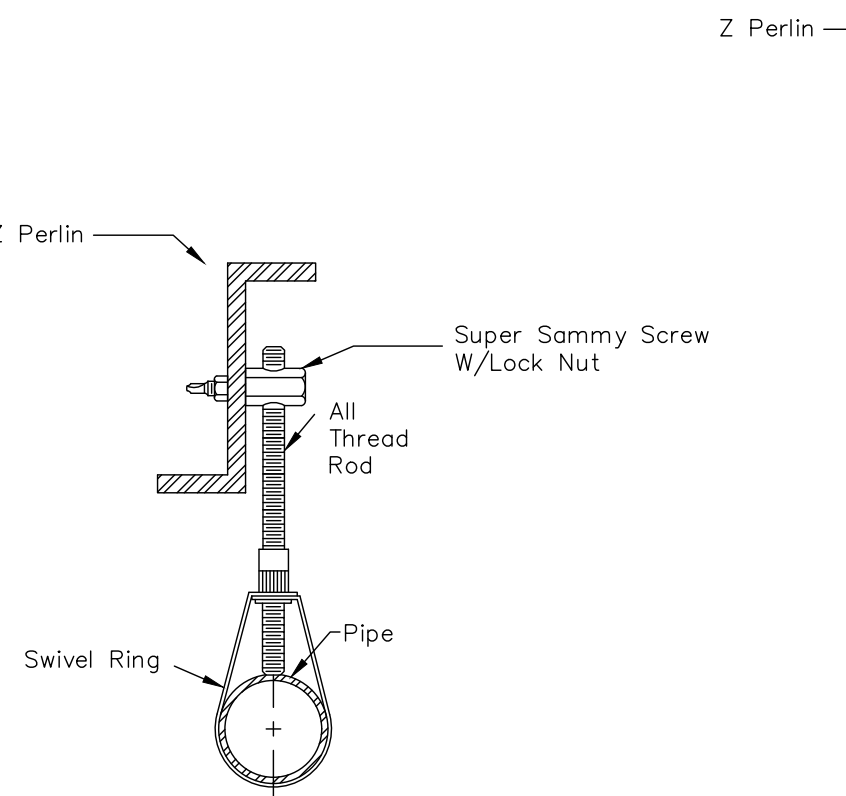


ID	Qty	Description
A	1	4" GASKET FULL RED RUB .125
B	1	VIC FLANGE ADAPTER #741
C	2	X 3 VIC CON-RED #50
D	18	3 FRLK EZ RIGID CPLG 009H
E	1	3 VIC LONG RADIUS 90 #100
F	3	3 FRLK 90 #001
G	1	3 VIC B FLY W/TAMPER #705
H	1	3" VIC RISER CHECK G/G 717HR
I	2	3 FRLK TEE #002
J	1	3" WATER FLOW SWITCH
K	1	3 X 2 1/2 VIC CON-RED #50
L	1	3 X 2 VIC CON-RED #50
M	6	4 FRLK EZ RIGID CPLG 009H
N	1	4" CHECK VALVE G/G
O	2	4 FRLK 90 #001
P	1	4X5 30 DEG RALEIGH STORZ W/CAP&PLATE
Q	1	3" DERINGER 50 RPDA BACKFLOW

UNISTRUT HANGER DETAIL
N.T.S.

VERTICAL SAMMY HANGER DETAIL
N.T.S.

SAMMY HANGER DETAIL
N.T.S.

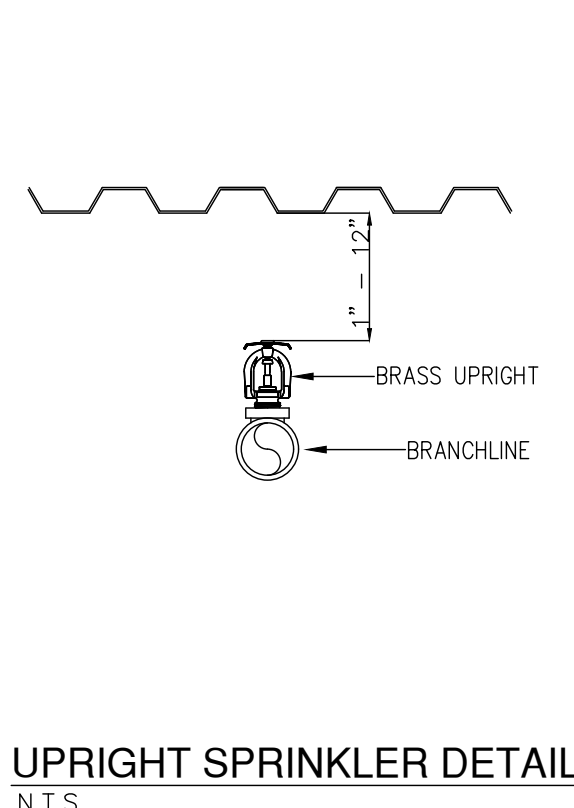
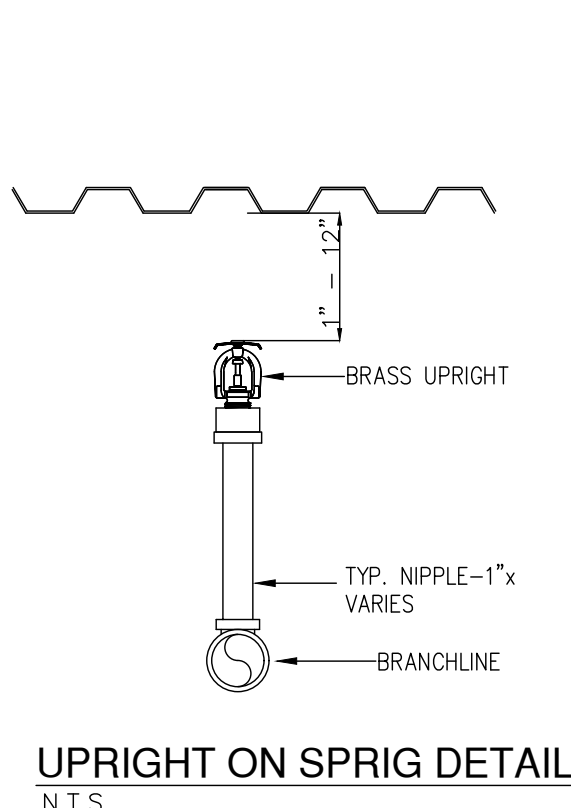
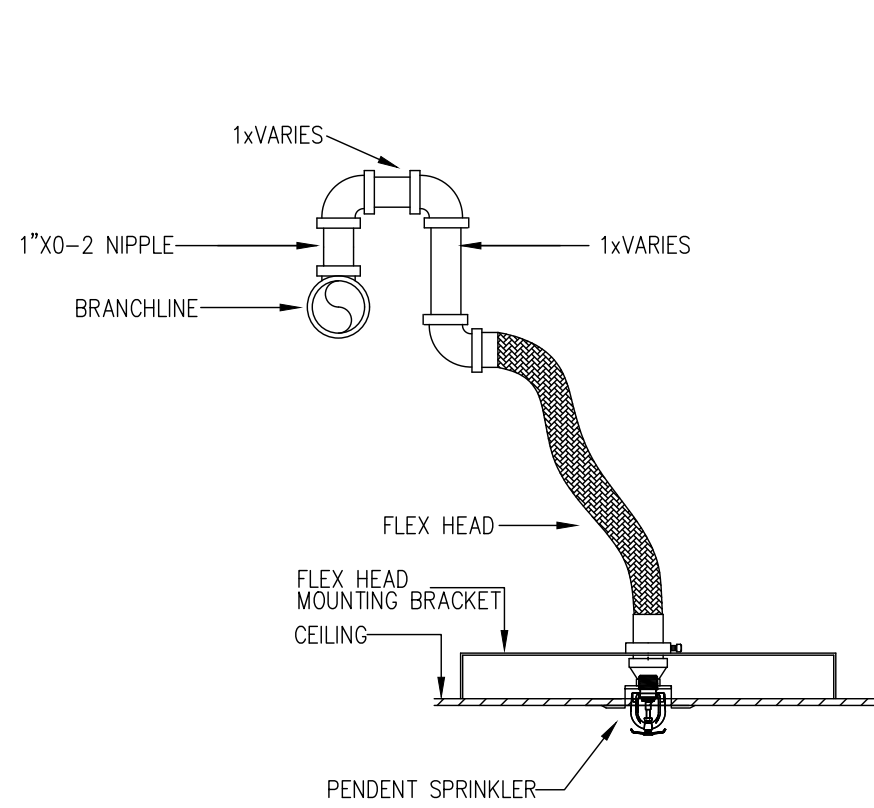
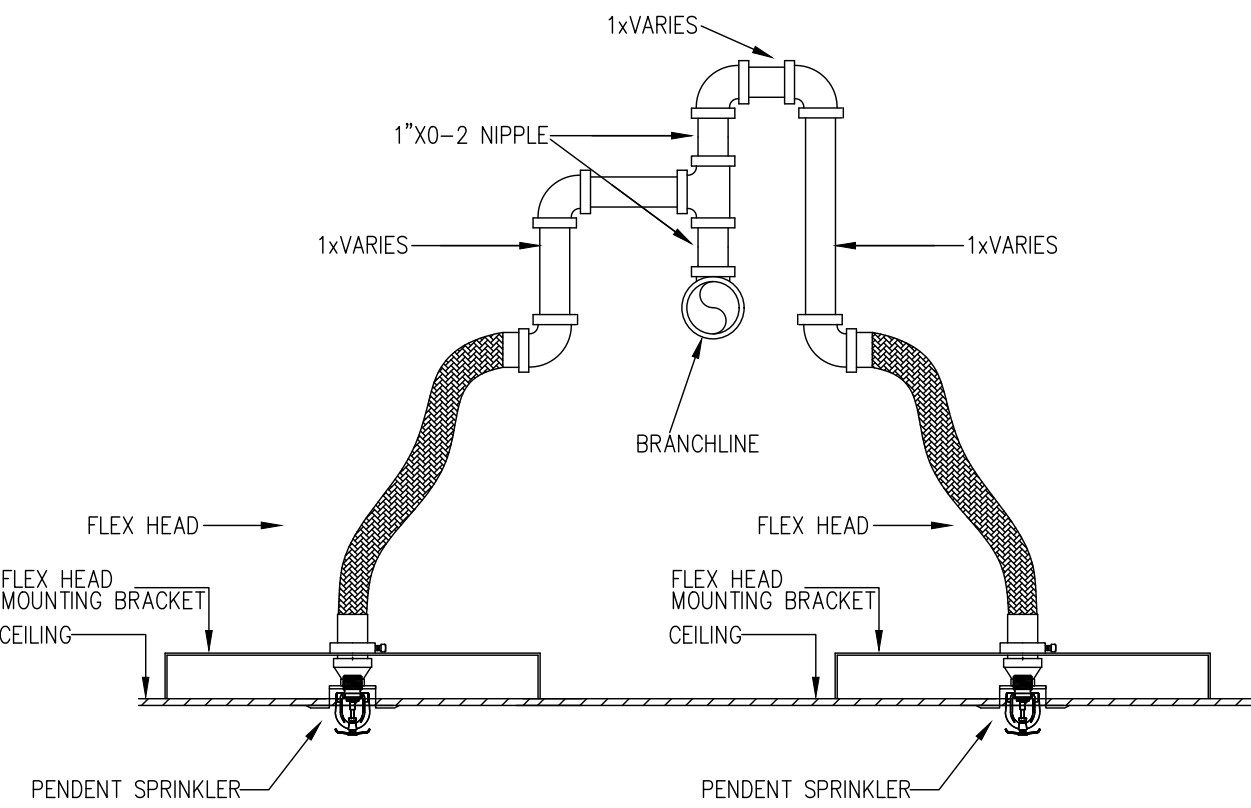


Z PERLIN HANGER DETAIL
N.T.S.

UNISTRUT HANGER DETAIL
N.T.S.

SQUARE TUBE HANGER DETAIL
N.T.S.

SAMMY X-PRESS HANGER DETAIL
N.T.S.

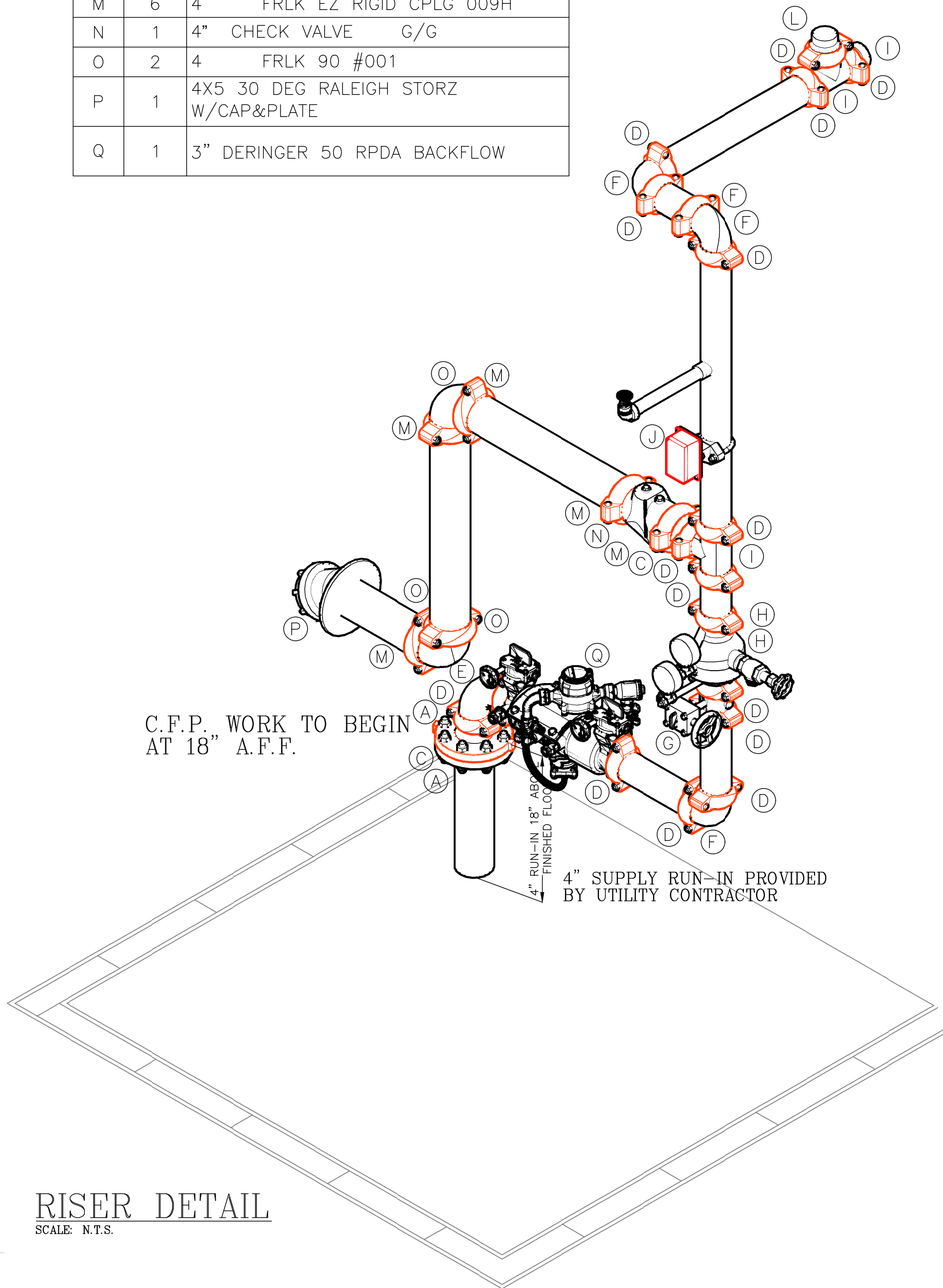
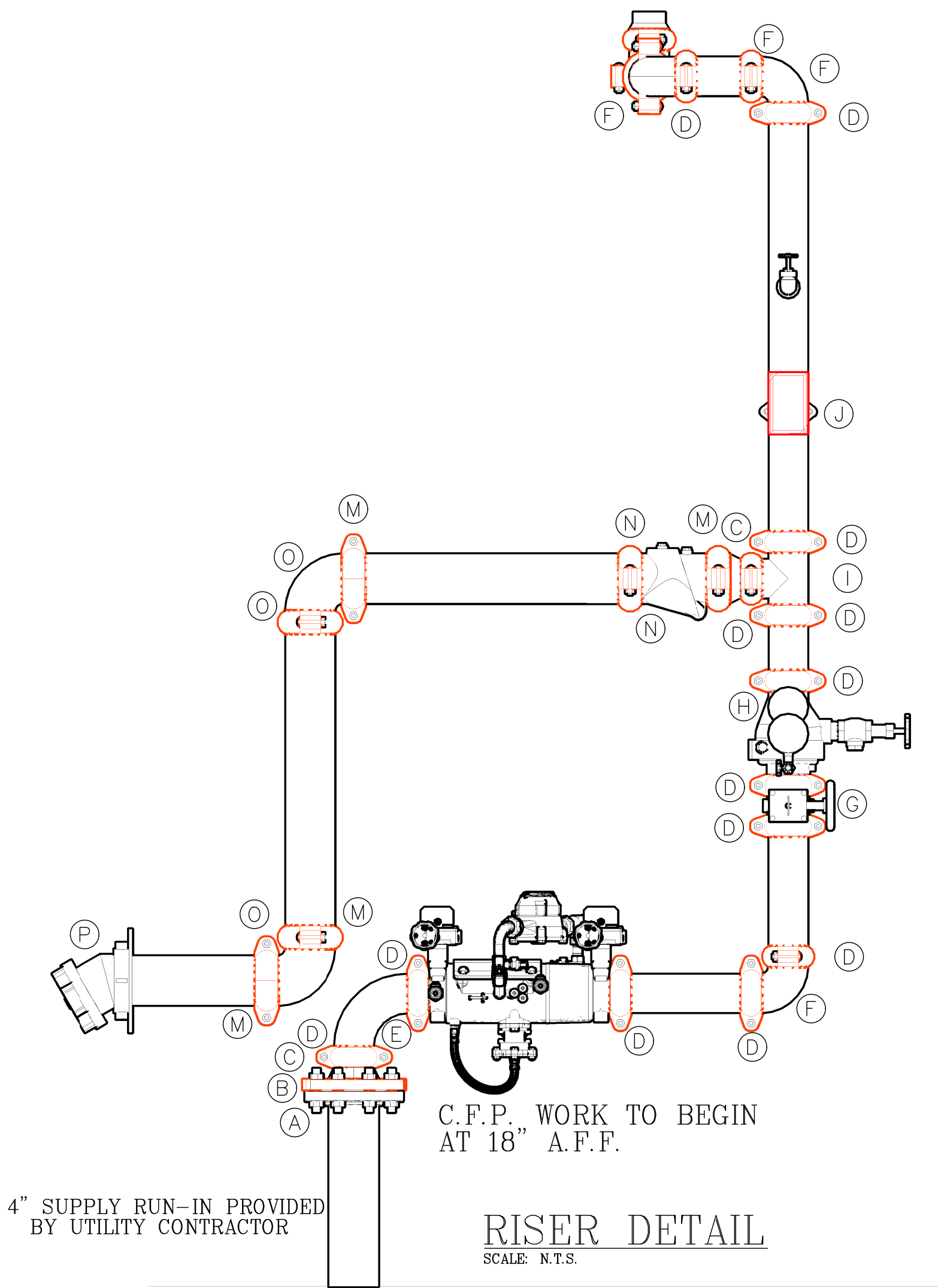


SPLIT OUTLET FLEX HEAD DETAIL
N.T.S.

FLEX HEAD DETAIL
N.T.S.

UPRIGHT ON SPRIG DETAIL
N.T.S.

UPRIGHT SPRINKLER DETAIL
N.T.S.



N

W

E

S

2' 4' 6' 8' 10' 12' 14' 16' 18'

IMPORTANT

Building areas subject to freezing conditions, it is the owner's responsibility to provide heat throughout the wet pipe sprinkler system areas and in enclosures for dry pipe, deluge, and other types of valves controlling water supplies to sprinkler systems.

REVISIONS

DATE	DESCRIPTION	BY
7/21/2026	Added FDC Detail per Review Comments	CFP

SPRINKLER SYMBOLS DESCRIPTION

SYMBOL	SIZE	TEMP	STYLE	MAKE	MODEL/SIN	FINISH	RESCUTCHRON	K-FACTOR	RESPONSE	QUANTITY
●	1/2"	155°	SSP	VIKING	VK302	CHROME	RECESSED	5.6K	QR	58
○	1/2"	155°	SSU	VIKING	VK300	BRASS	N/A	5.6K	QR	63

TOTAL SPRINKLERS THIS SHEET: 121

TOTAL SPRINKLERS ON JOB: 121

Crossroads Fire Protection Inc

809 South Market Street

P.O. Box 926

Benson, NC 27504

(919) 207-3855

ANTIOCH BAPTIST CHURCH

6670 OLD US 421

LILLINGTON, NC 27546

CONTRACTOR ANTIOCH BAPTIST CHURCH

Fire Sprinkler Plan

PERMIT NO. CC-11974

CONTRACT NO. HARNETT COUNTY

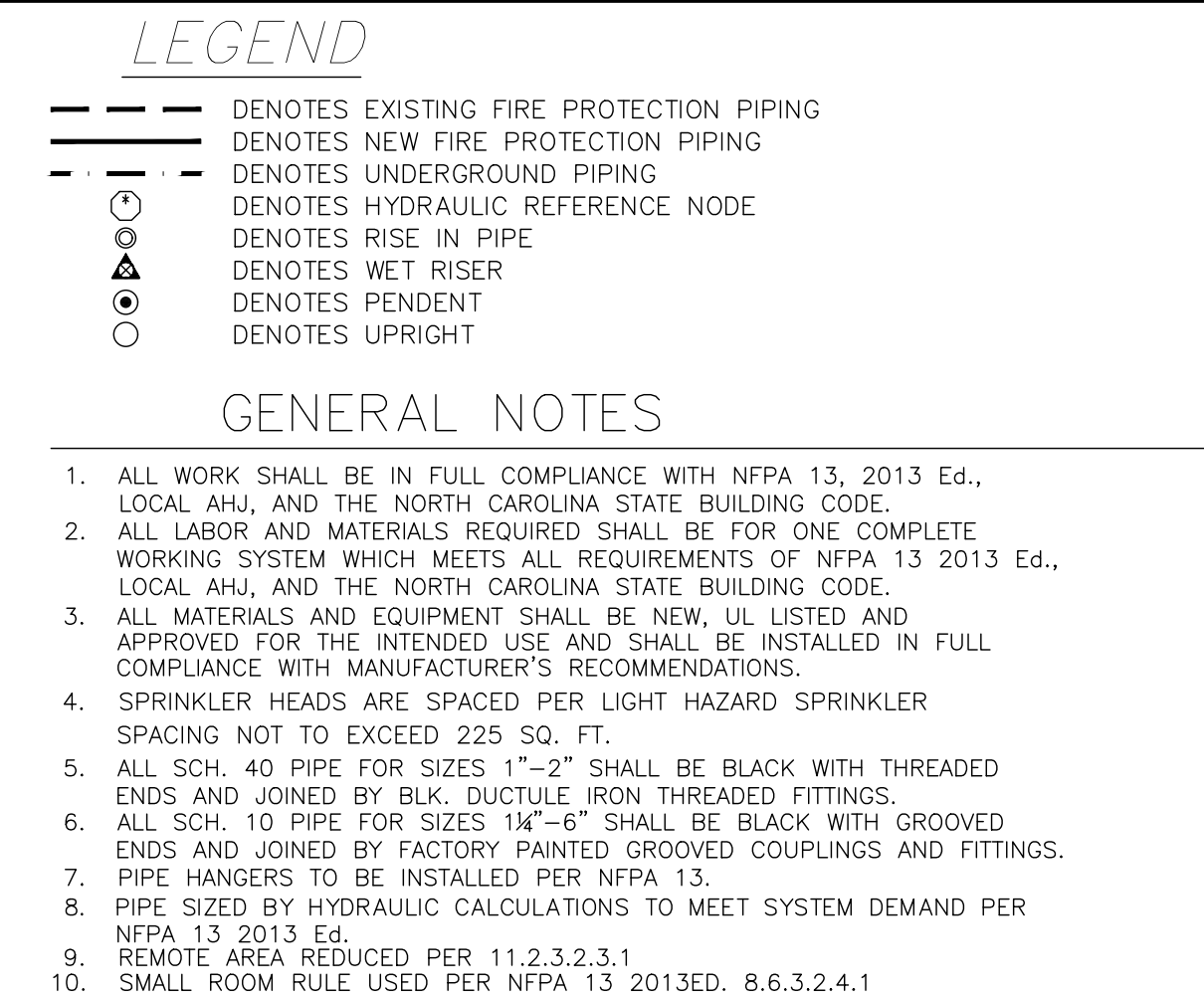
APPROVAL CFP

DRAWN BY As Noted

SCALE 07-21-2026

DATE 07-21-2026

REVISION FPI OF 3



SPRINKLER SECOND LEVEL CEILING PLAN
SCALE: 1/8" = 1'-0"

