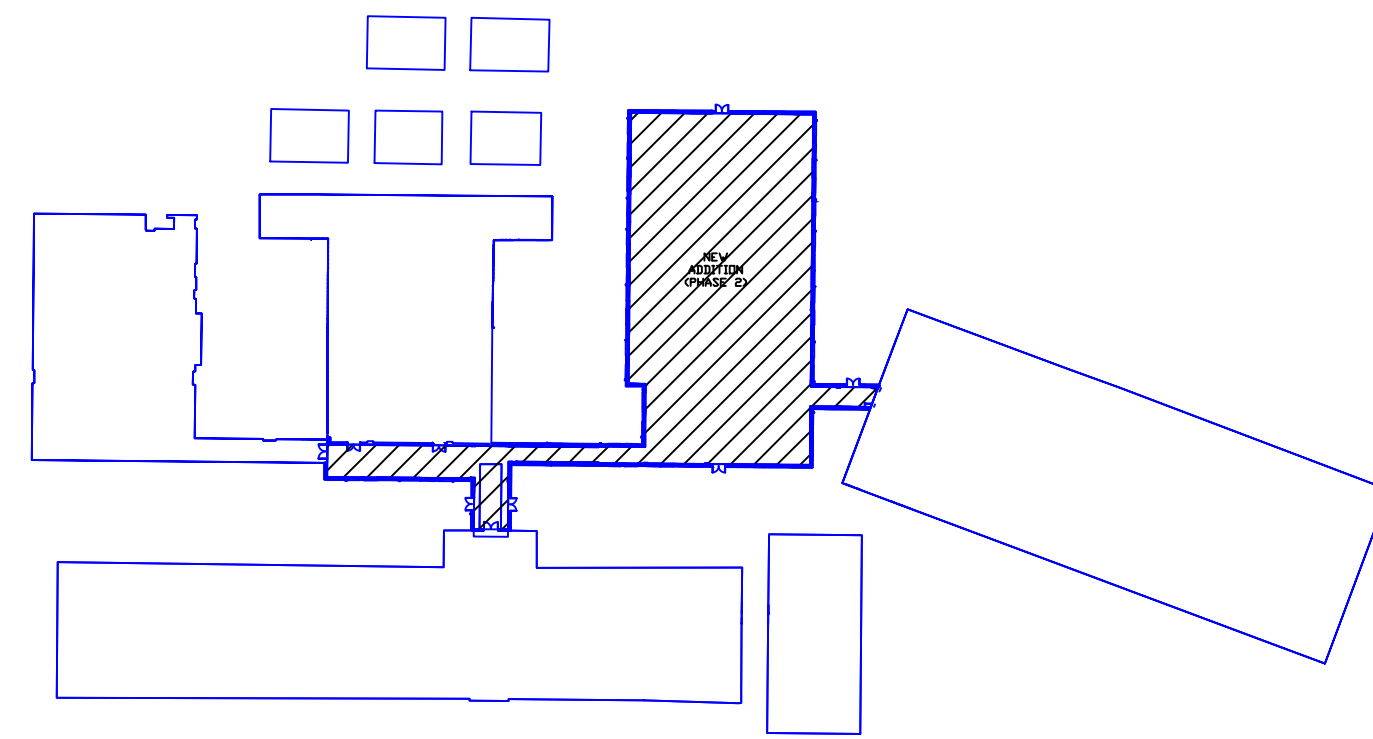
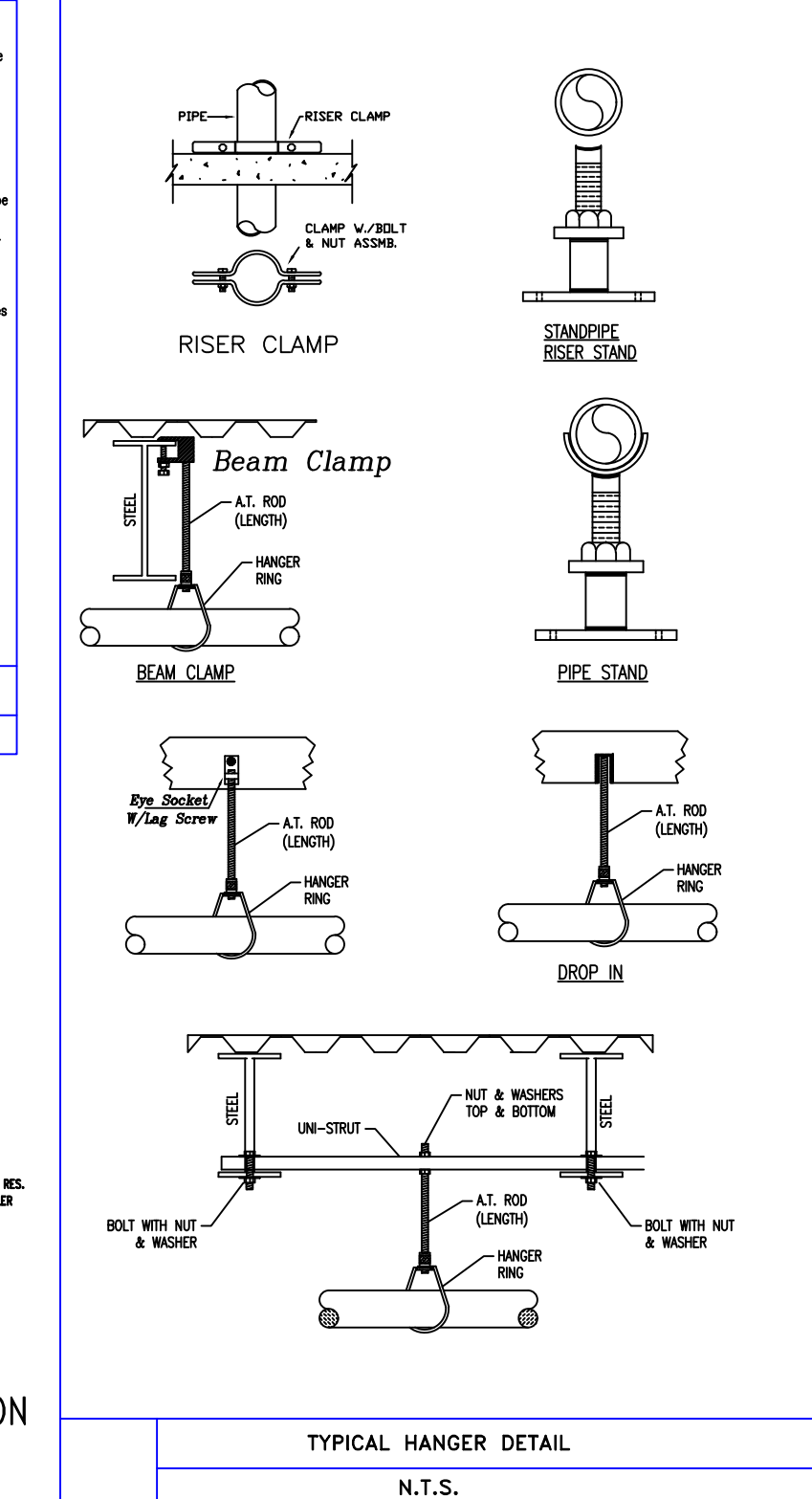
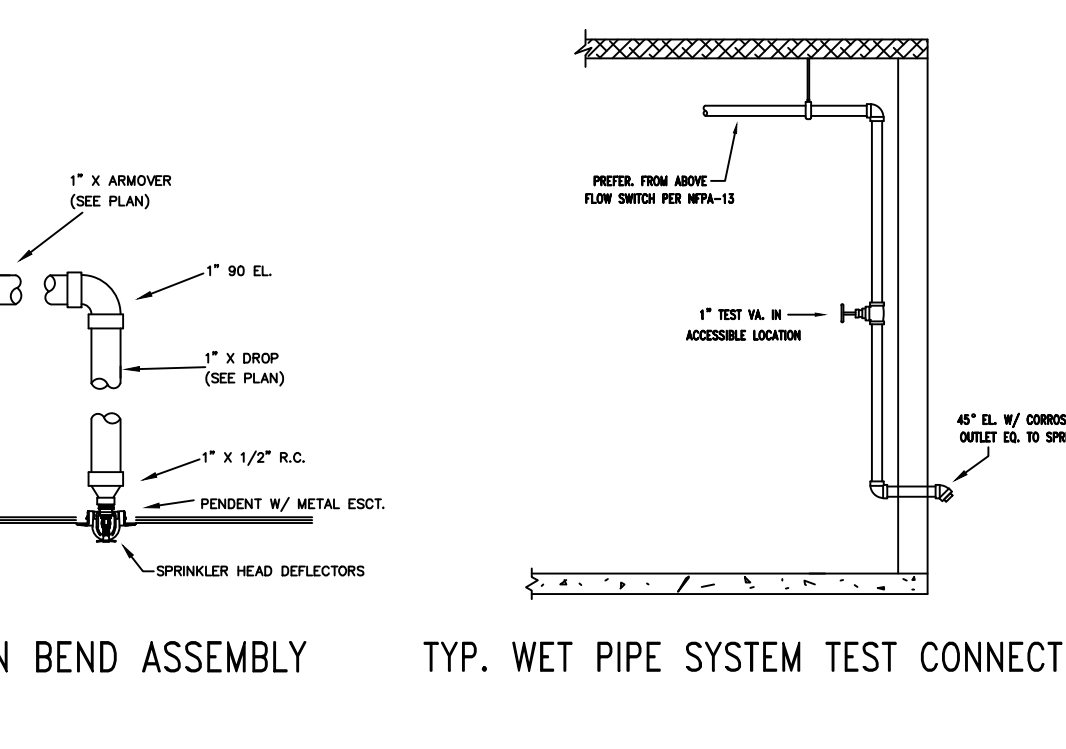
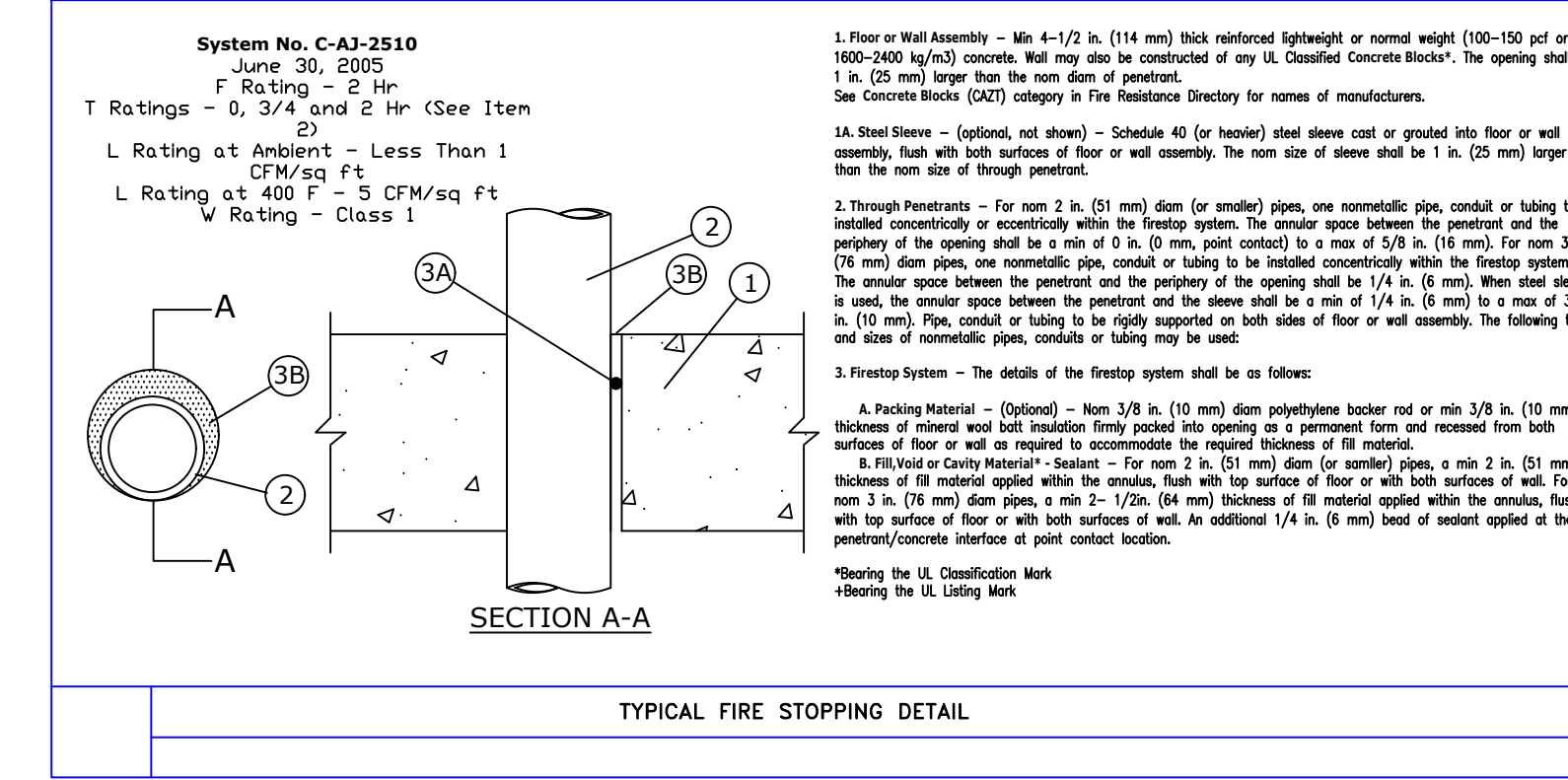


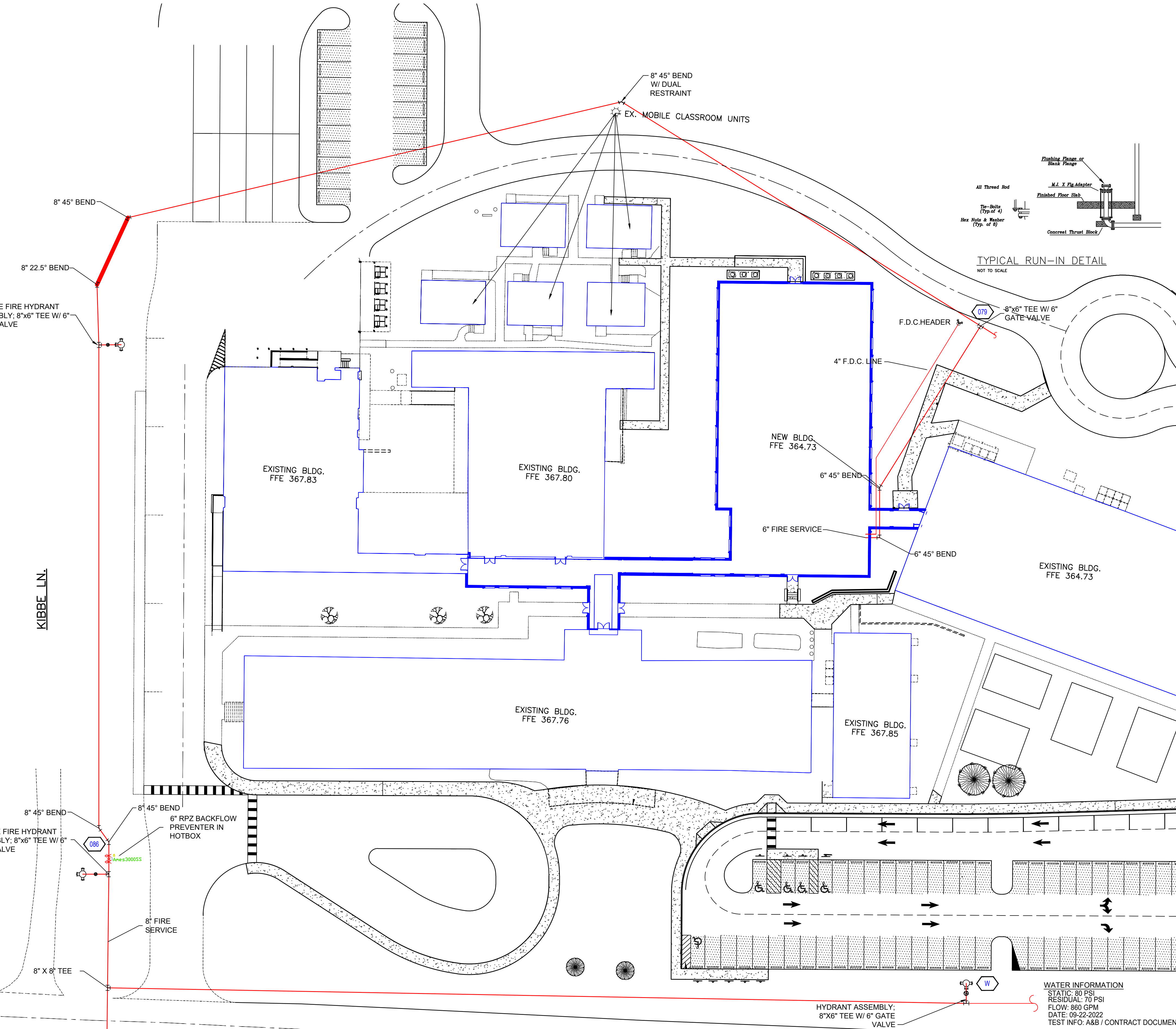
**BUILDING SECTION**  
SCALE: 1/8" = 1'-0"



**KEY PLAN**  
NOT TO SCALE



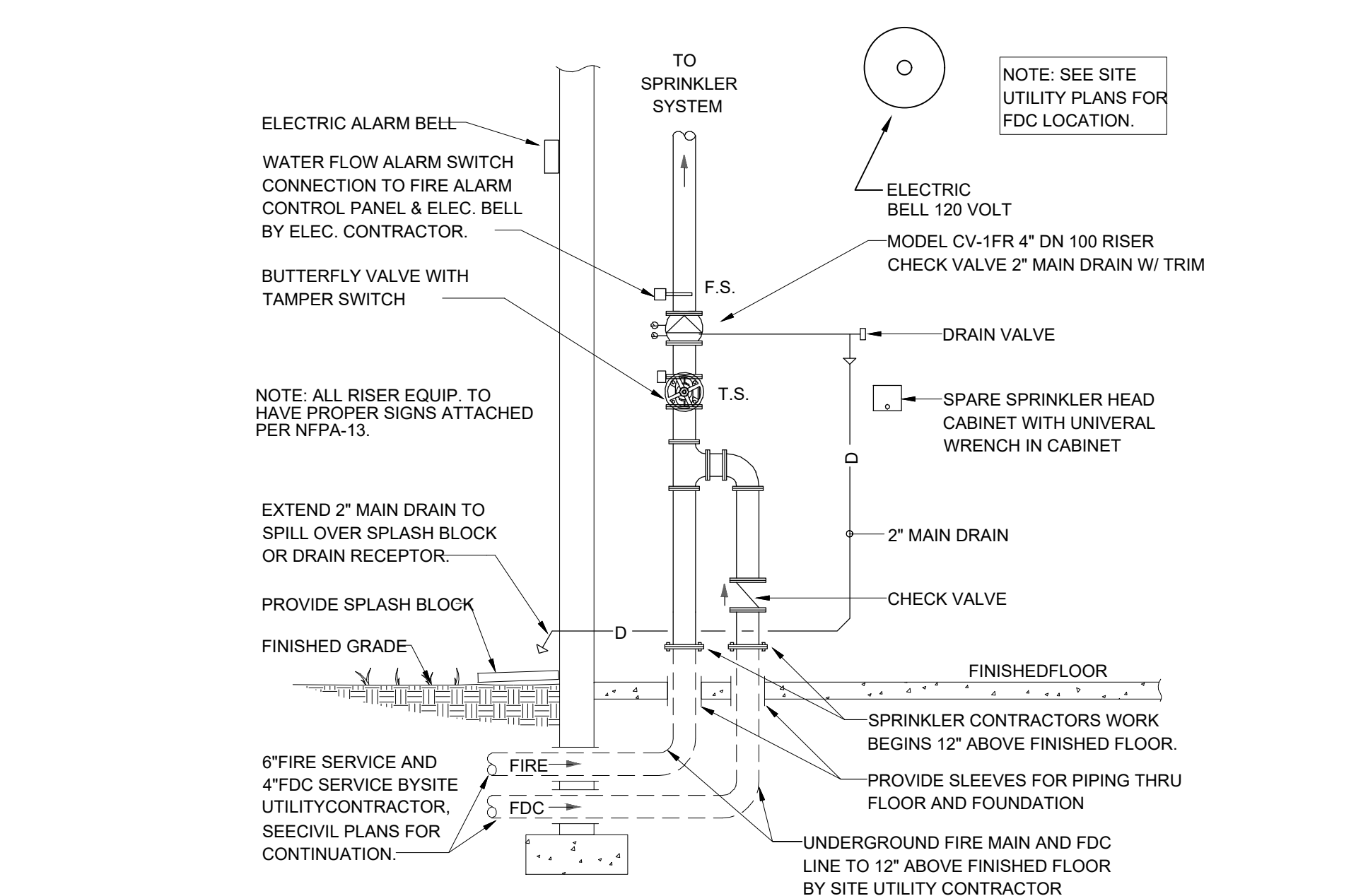
NOTE: HANGARS TO BE INSTALLED PER NFPA-13 2013 IN THE FIELD HANGARS ARE SHOWN ON DRAWINGS BUT MAY VARY DURING INSTALL!



**SITE PLAN**  
SCALE: 1" = 30'-0"

**FIRE PROTECTION NOTES**

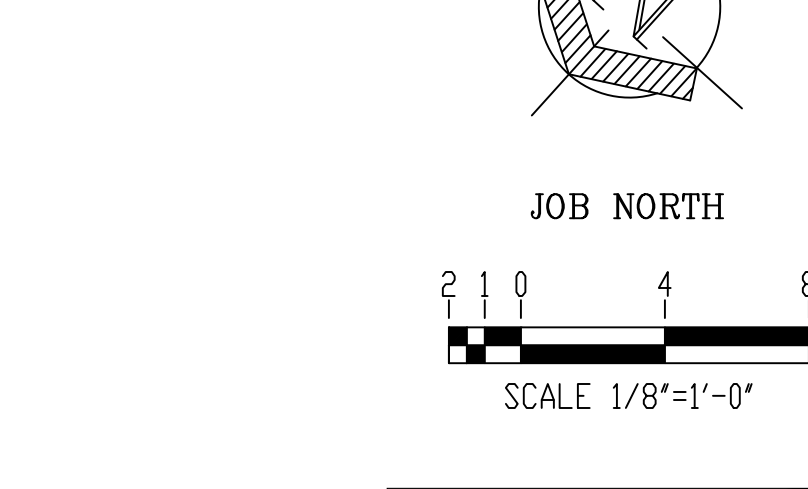
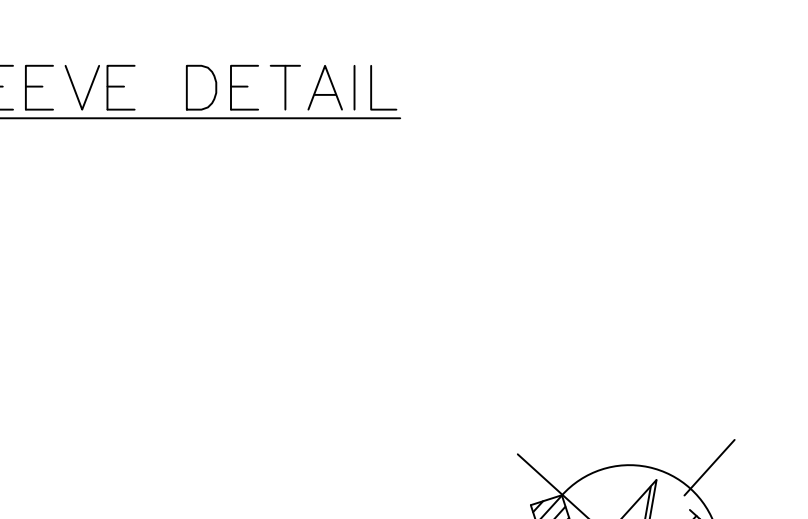
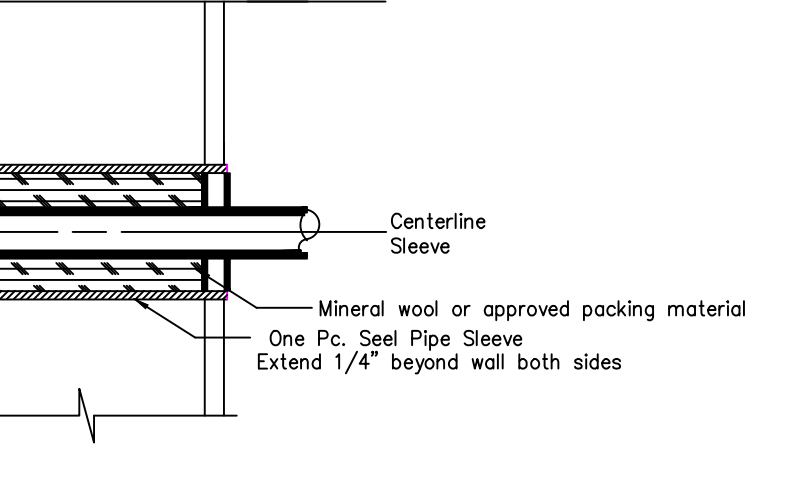
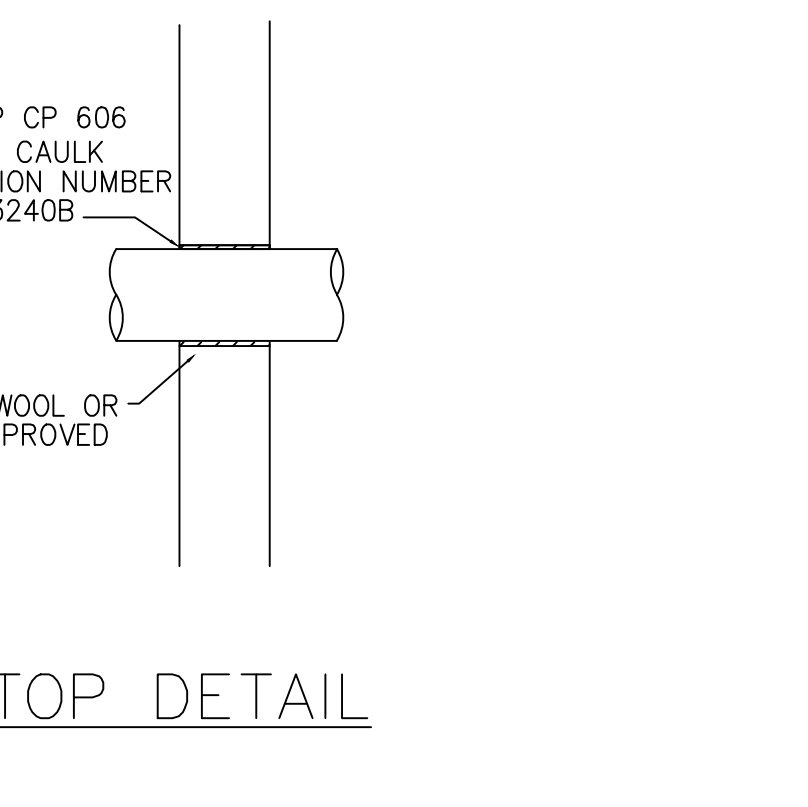
- PLANS CONFORM TO NFPA-13 EDITION & THE HARNETT COUNTY SCHOOL SYSTEMS.
- ALL THREADED PIPE 2" & SMALLER IS SCH 40. ALL GROOVED PIPE 1-1/2" & LARGER IS SCH 10 ALL UNDERGROUND IS DUCTILE IRON.
- ALL FITTINGS PER NFPA 13 TO BE GROOVED FITTINGS AND COUPLINGS FOR SCH. 10 PIPE AND GROOVED, CAST OR MALLEABLE IRON SCREWED FITTINGS FOR SCH. 40 PIPE.
- FOR BUILDING OCCUPANCY, ALL SPRINKLERS SHALL HAVE THEIR DEFLECTORS INSTALLED BELOW ROOF AND/OR CEILING ASSEMBLIES BETWEEN 1" TO 22" MAXIMUM, DEPENDING ON THE TYPE OF ROOF AND/OR CEILING CONSTRUCTION CLASSIFICATION.
- OTHERS ARE RESPONSIBLE FOR MAINTAINING BUILDING TEMPERATURE AT ABOVE FREEZING.
- THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL NOT BE MORE THAN 36" FOR 1" PIPE, OR 48" FOR 1-1/4" PIPE.
- ALL ARMOVERS GREATER THAN 24" SHALL BE SUPPORTED BY A HANGER.
- 1" TO 4" PIPE TO BE SUPPORTED WITH 3/8" ALL THREAD ROD AND 3/8" HANGER ASSEMBLIES. 5" TO 6" PIPE TO BE SUPPORTED WITH 1/2" ALL THREAD ROD AND 1/2" HANGER ASSEMBLIES.
- CONTROL VALVES TO BE PROVIDED WITH TAMPER SWITCHES INSTALLED BY A & B & CONNECTED TO FIRE DEPARTMENT REMOTE STATION, WIRING BY OTHERS.
- F.D.C. LOCATION TO BE APPROVED BY A/E.
- NO COMBUSTIBLE CONSTRUCTION WILL BE ABOVE THE CEILING, BELOW FLOORS, OR IN ANY CONCEALED SPACES UNLESS PROTECTED BY SPRINKLERS.
- IF HORIZONTAL OVERHEAD DOORS ARE PROVIDED, SPRINKLER PROTECTION SHALL BE PROVIDED BOTH ABOVE AND BELOW THE DOORS (UNLESS NOTED OTHERWISE).
- BEFORE ANY SPRINKLER PIPING IS CONCEALED THE SPRINKLER CONTRACTOR SHALL NOTIFY LOCAL A/J INSPECTOR 48 HOURS IN ADVANCE, SO THAT THE FIRE INSPECTOR CAN INSPECT THE SYSTEMS PIPING FOR CONFORMANCE WITH CODE REQUIREMENTS.
- HYDROSTATICALLY TEST ALL NEW SPRINKLER PIPING AT 200psi FOR 2 HOURS. NOTIFY ALL PROPER AUTHORITIES THAT APPLY 48 HOURS PRIOR TO TEST.



**RISER DETAIL**  
NOT TO SCALE

**LEGEND**

- LH LIGHT HAZARD OCCUPANCY
- OH1 ORDINARY HAZARD GROUP 1 OCCUPANCY
- OH2 ORDINARY HAZARD GROUP 2 OCCUPANCY



North Carolina Licensed Fire Sprinkler Contractor  
License #: 32514  
Date: January 02, 2020

**JOHNSONVILLE ELEM. SCHOOL ADDITION RENOVATION-PHASE 2**  
18495 NC-27 CAMERON, NC 28326  
AREA: SITE PLAN, NOTES, SECTIONS & DETAILS  
DATE: 12/8/22 SCALE: As Noted  
DRAWN BY: C.J.R. JOB NO. 173-NC22  
CHECKED BY: D.H. APPROVING AGENCY: HARNETT CO. FILE NO.  
TOTAL NUMBER OF SPRINKLERS THIS SHEET ON CONTRACT SHEET 1 of 2  
APPROVING AGENCY: HARNETT CO. APPROVING AGENCY: HARNETT CO. APPROVING AGENCY: HARNETT CO.

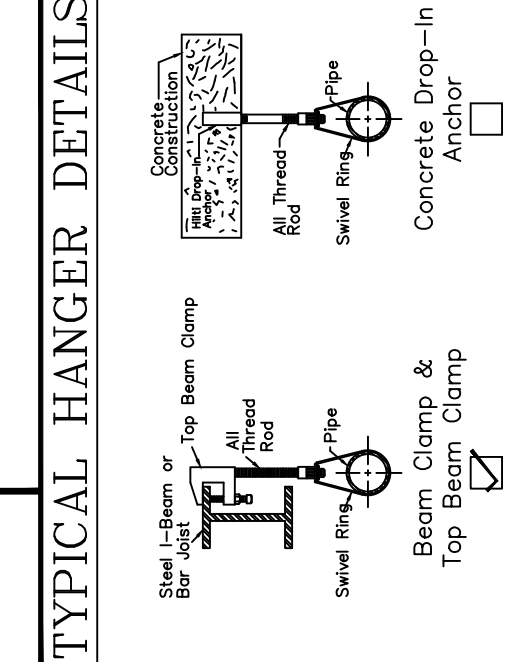
QTY	SYMBOL	TYPE	FINISH	TEMP.	K	INPT	ORIF	MFR/MODEL	SIN #	DESC./NOTE	NO.	DATE	REVISIONS
0		None	White	160°	11.2	3/4"	3/4"	TYCO	TYCO	TYCO	0	12-12-22	SUBMIT FOR REVIEW
0		None	White	150°	5.60	1/2"	1/2"	TYCO	TYCO	TYCO	0		
0		None	Brass	150°	5.60	1/2"	1/2"	TYCO	TYCO	TYCO	0		

**GENERAL NOTES**

- See individual Piping Plans and General Design & Piping Notes for more information.
- Design is in accordance with the North Carolina Building Code Fire Prevention Code (2018), NFPA #13 (2013), and all other applicable codes and standards.
- Unless specifically noted otherwise, all materials and components are excluded from this contract.
- The Owner is responsible for maintaining a min. of 40' F in all areas of the building.
- Containing wet pipe systems and dry pipe riser assemblies.
- On piping plans for clarity, to be Schedule 40 with shop-welded or bolted branch outlets, full-grooved ends and grooved fittings (Sch. 10) <S>S threaded ends with standard class 125 cast iron threaded fittings (Sch. 40 only).

**SYMBOLS**

- Butterfly Valve
- DS&Y Valve
- Post Ind. Valve
- Globe Valve
- Swing Check Valve
- MaFer Check Valve
- Angle Hose Valve
- Fire Dept. Connection



**JOHNSONVILLE ELEM. SCHOOL ADDITION RENOVATION-PHASE 2**  
18495 NC-27 CAMERON, NC 28326  
AREA: SITE PLAN, NOTES, SECTIONS & DETAILS  
DATE: 12/8/22 SCALE: As Noted  
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**JOHNSONVILLE ELEM. SCHOOL ADDITION RENOVATION-PHASE 2**  
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JOSHUA M. OWEN  
NICET CERTIFICATION NO. 108423  
WATER-BASED SYSTEMS LAYOUT  
LEVEL 4 - SENIOR TECHNICIAN  
CERTIFICATION EXPIRES: JUNE 1, 2024

**A&B Fire Services Inc.**  
113 North Lane Bluefield, VA 24605  
Phone: (276) 254-3000 Fax: (276) 322-2705  
"Safety First Always!"