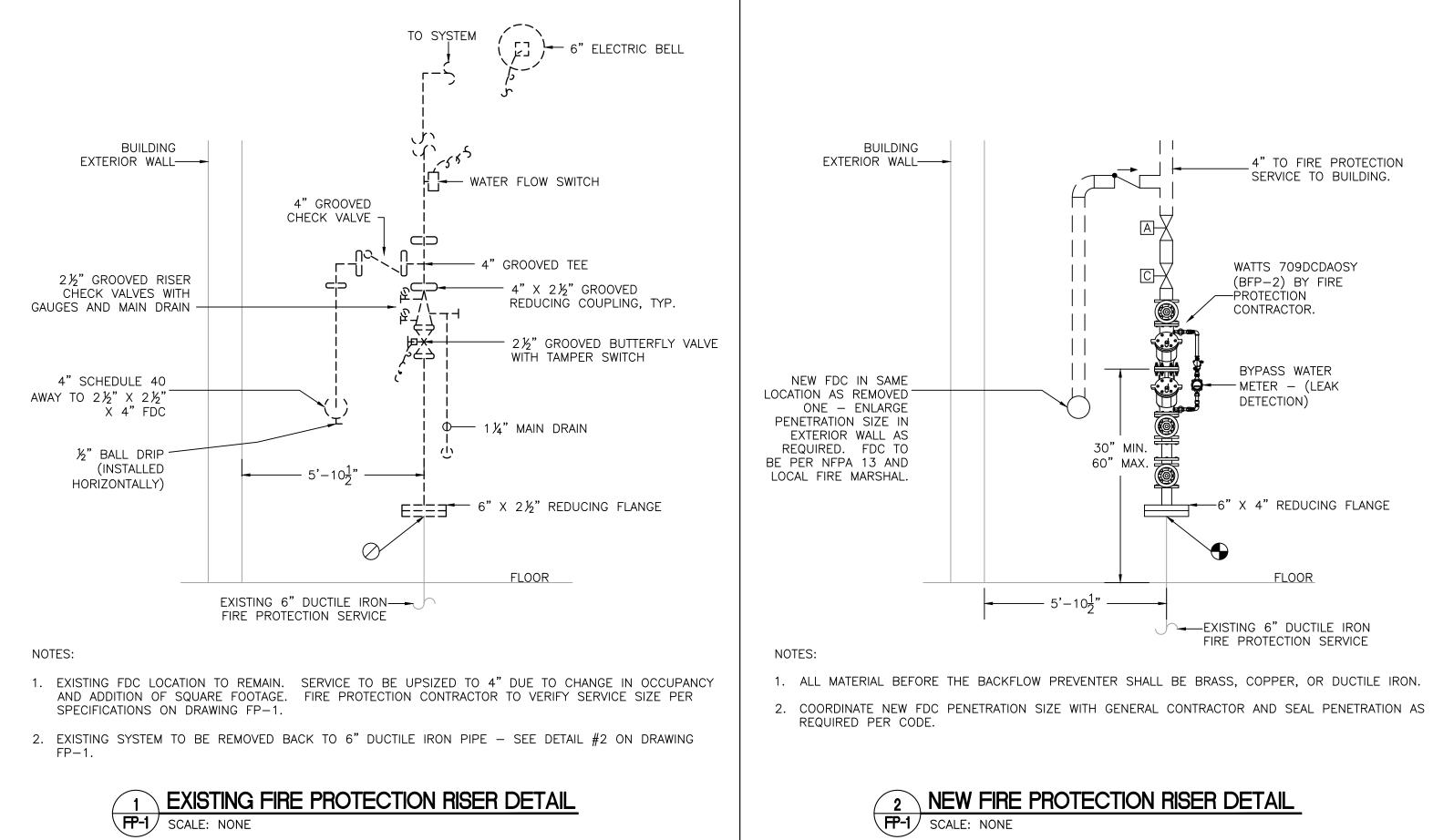
LEGEND						
TYP.	TYPICAL	DN	DOWN			
U/F	UNDER FLOOR	\bullet	POINT OF CONNECTION -			
RPZ	REDUCED PRESSURE ZONE ASSEMBLIES	NIC	NEW TO EXISTING NOT IN CONTRACT			
мс	MECHANICAL CONTRACTOR	FDC				
GC	GENERAL CONTRACTOR		FIRE DEPARTMENT CONNECT			
CONT.	CONTINUATION	<u> </u>	TIKE DELAKIMENT CONNECT			
N/A	NOT APPLICABLE	Ç	INDICATING CONTROL VALVE			
PC	PLUMBING CONTRACTOR	\bowtie				
RM.	ROOM	A				
	BUILDING UNDERGROUND	\mathbb{R}	ALARM VALVE			
03 0	COMBINATION SERVICE					
SG	SPRINKLER GUARD					
	CHECK VALVE					
FP	- P - EXISTING SPRINKLER	MAIN				
FP	- 🕫 NEW SPRINKLER MAI	N				
🖉 РО	INT OF DISCONNECT FROM	EXISTIN	G			
P PU	TINT OF DISCONNECT FROM	EVISTIN	6			

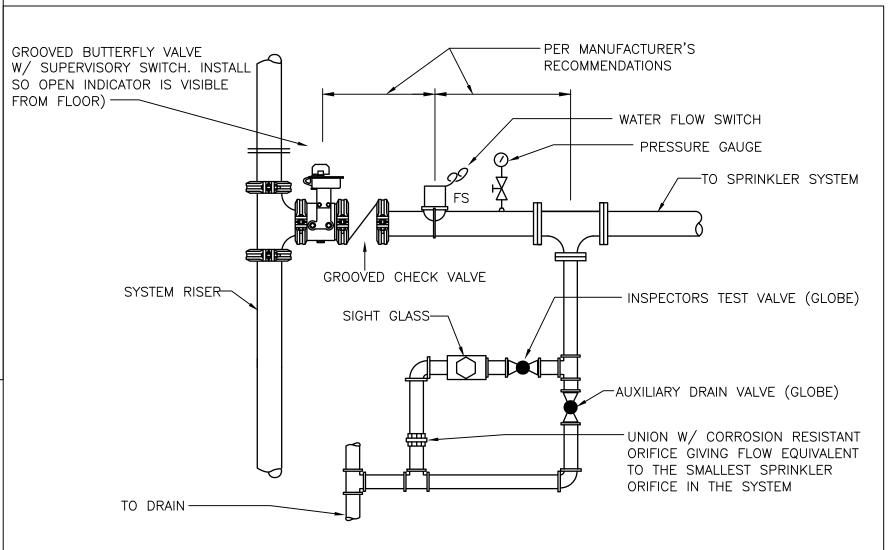
BACKFLOW PREVENTER SCHEDULE								
MARK	MANUFACTURER	SIZE	MAX. PRESSURE DROP	SERVING	REMARKS			
BFP-2	WATTS	4"	10 PSI	FIRE PROTECTION SERVICE	DCDA TO BE INSTALLED BY FIRE CONTRACTOR. SEE DETAIL #1 ON DF FIRE PROTECTION ROOM LAYOUT			



FIRE PROTECTION SYSTEMS SPECIFICATIONS

- and the local Authority Having Jurisdiction requirements.
- 2. Sprinkler heads, mains, runouts, tailbacks, sprigs etc. shall be provided as follows:
- drawing FP-2.
- coating. Exposed sprinkler heads shall be ordered according to color requirements below.
- original factory finish.
- As-Builts, shall be submitted electronically in AUTO CAD compatible format.
- system to the location of the test hydrant.
- engineer for final review.
- year following date of acceptance by Owner.
- protection contractor at submittal of shop drawings and calculations):
 - a. Static pressure psi.
 - b. Residual pressure psi. c. Flow gpm.
 - d. Flow/test hydrant locations. e. Date of test.
 - Time of test.
 - Responsible party conducting test. h. Hydrant outlet discharge coefficient.
- for all trapped sections of pipe.

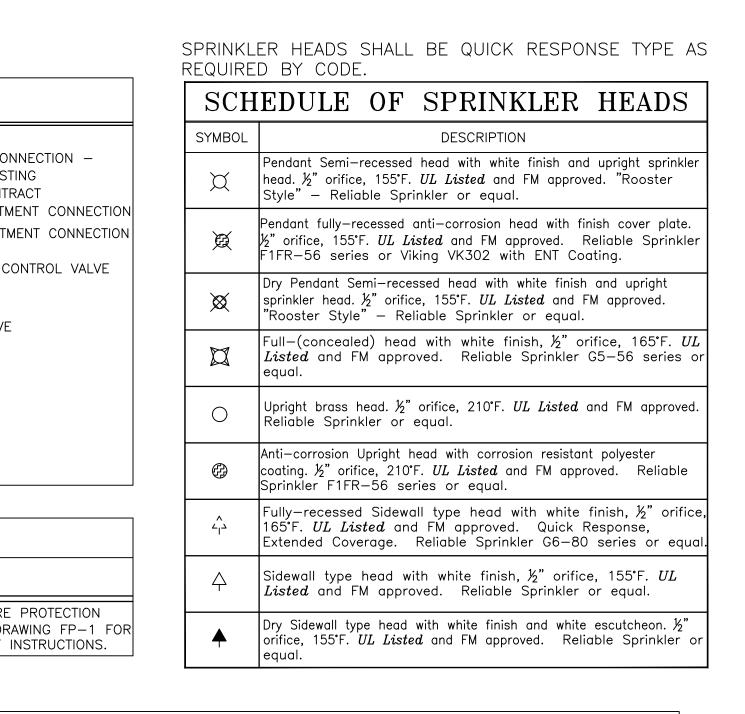
- constraints.



NOTE:

RISER PIPING SIZE IS TO BE VERIFIED WITH HYDRAULIC CALCULATIONS PER THE SPECIFICATIONS. COORDINATE FINAL RISER LOCATION WITH ALL TRADES AND ARCHITECT TO AVOID CONFLICTS AND ENSURE REQUIRED EGRESS PATHS ARE ACHIEVABLE. RISER IS NOT TO BE LOCATED IN ANY AREA WHERE DRY SYSTEMS ARE INDICATED. TAMPER AND FLOW SWITCHES TO BE ELECTRICALLY SUPERVISED. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.

> 3 FLOOR CONTROL VALVE DETAIL FP-1 SCALE: NONE



1. The contractor shall be responsible for a complete turn key installation using Underwriter Laboratories UL listed products including design, obtaining approvals and coordination with other trades. Install to meet NFPA 13. NFPA 72. NFPA 101.

2.1. All equipment required for the project (sprinklers, hose valves, check valves, fittings, etc.) shall meet standard pressure requirements. The fire protection contractor shall provide services for this project on a design build basis. Provide all required materials and designs for a 100% complete, functional and code compliant installation. Provide piping drawings, schematics, material specifications etc. with flow calculations to the local jurisdiction having authority for review and approval prior to installation. All prospective bidders shall visit the site prior to bid submission to verify field conditions and scope of work. Coordinate main fire protection service size requirements and all locations of fire protection mains serving the building with the Civil Engineer and Architect prior to bid submission. Provide flow and tamper switches as required and coordinate terminations with the electrical contractor. If main fire protection service is existing, provide new drops to new sprinkler heads. Coordinate exterior AV location with electrical contractor and wiring requirements in advance. Provide Siamese connection at exterior per Fire Marshal.

3. Sprinkler head locations shall be used as a guide for bid. Sprinkler locations show approximate locations with full rcp and field coordination to be provided by the successful contractor. Provide all heads as required per NFPA 13. Existing fire protection service is 2½" and shall be upsized to 4" due to change in occupancy and addition of square footage. Verify with hydraulic calculations. The contractor shall perform a flow test on site and use results to perform hydraulic calculations as described here. Provide sprinklers in concealed ceiling spaces per NFPA 13. Concealed spaces under the volume of 160 cubic feet shall not require sprinklers provided they meet all requirements under NFPA 13, Chapter 8, Section 8.15.1.2. In areas noted where no ceilings are installed or where the above ceiling area is large - all work from other trades are considered obstructions and shall be sprinklered per NFPA 13 Chapter 8. See Detail #3 on

4. The suggested sprinkler locations are not intended to limit the contractor from providing another design that may be more economical and still meet the requirements of the local Authority Having Jurisdiction and NFPA.

5. Comply with standards mentioned above, ANSI/ASME, and Architectural requirements for painting interior piping. Paint exposed, interior metal piping, valves, and piping specialties, except components, with factory-applied paint or protective

W.B. Light Industrial Coating: MPI INT 5.1B - G5. Prime Coat: Rust Inhibitive Primer. (MPI #107). Intermediate Coat: W.B. Light Industrial Coating (MPI #153). Topcoat: W.B. Light Industrial Coating (MPI #153). Color: Black.

Damage and Touchup: Repair marred and damaged factory-applied finishes with materials and by procedures to match

6. Working plans and computerized hydraulic calculations shall be prepared by a minimum Level 3 N.I.C.E.T. Certified Sprinkler Layout Designer. Submit working plans and hydraulic calculations signed and sealed by a Professional Fire Protection Engineer registered in the state in which the project is located, to Authorities that Have Jurisdiction. Design documents are for permit purposes. The design is not intended to limit the contractor from providing another design that may be more economical and still meet the requirements of the Local Authority Having Jurisdiction. All drawings, including

7. The hydraulic calculations shall include the pressure drop through all pipe, fittings and devices, including the pressure drop through the reduced pressure principle backflow preventer, from the most hydraulic remote point of the sprinkler

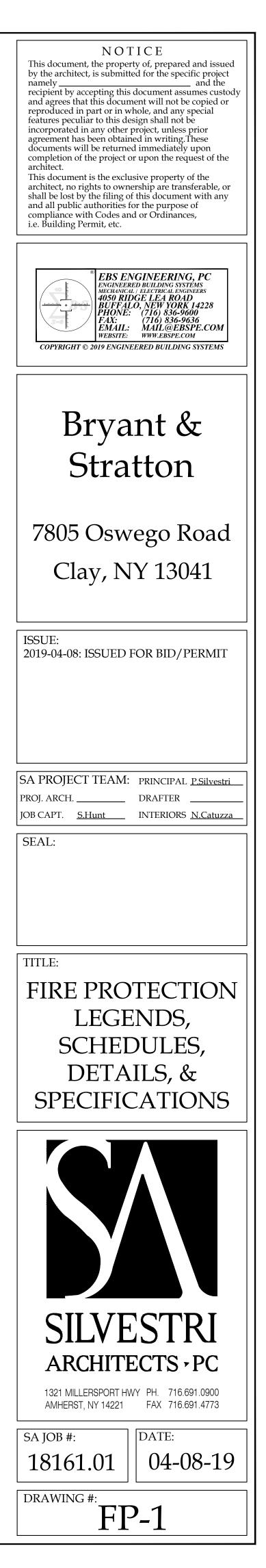
8. Submit drawings to local fire dept. and obtain necessary approvals, permits and certificates prior to submission to the

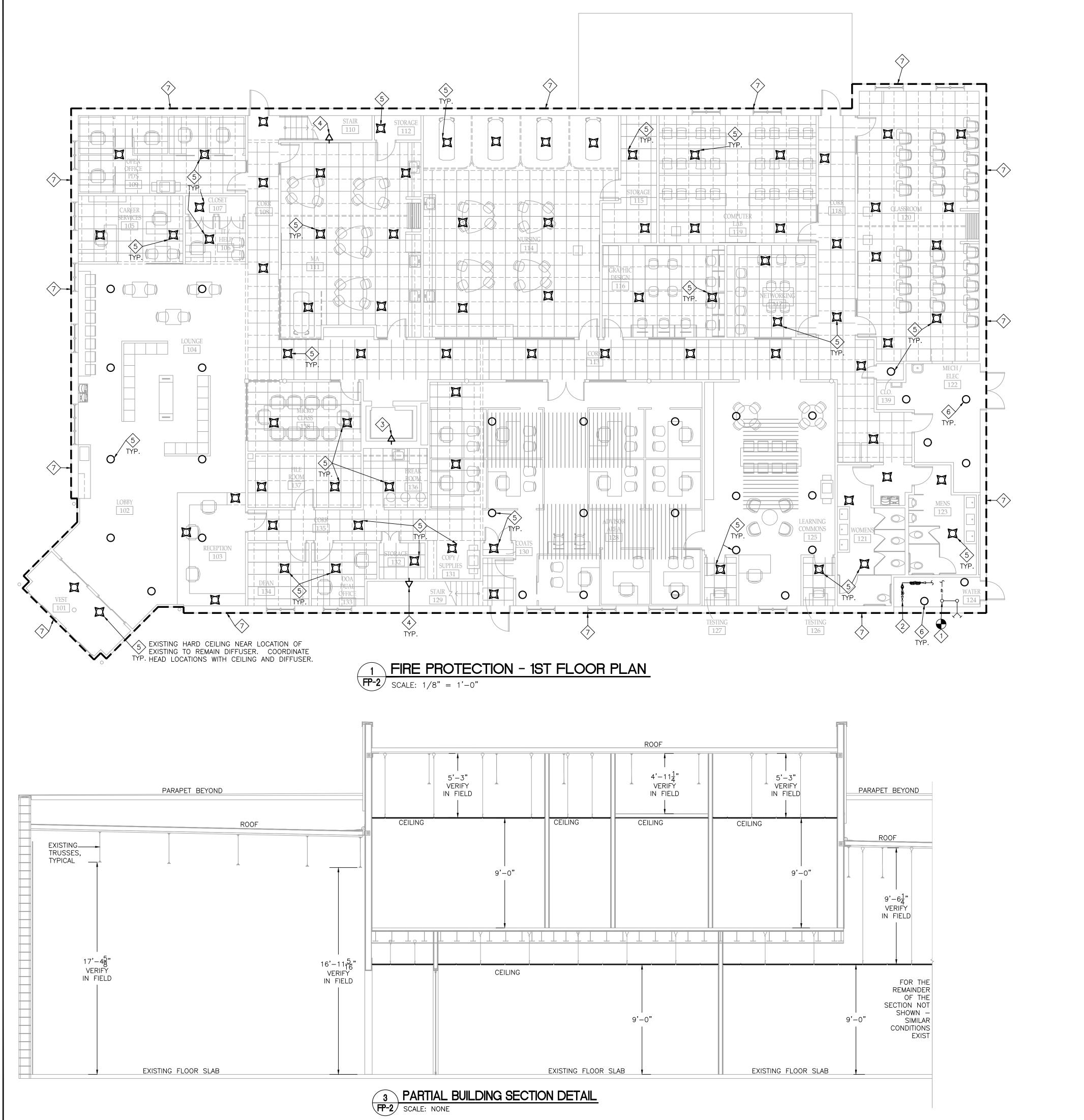
9. Where required by code or directed by local authorities, contractor shall provide seismic hanging & constraints on all piping in complete accordance with the latest issue of the State Plumbing Building Code, local codes and NFPA. 10. The fire protection contractor shall provide a guarantee covering all design, installation, material and workmanship for one

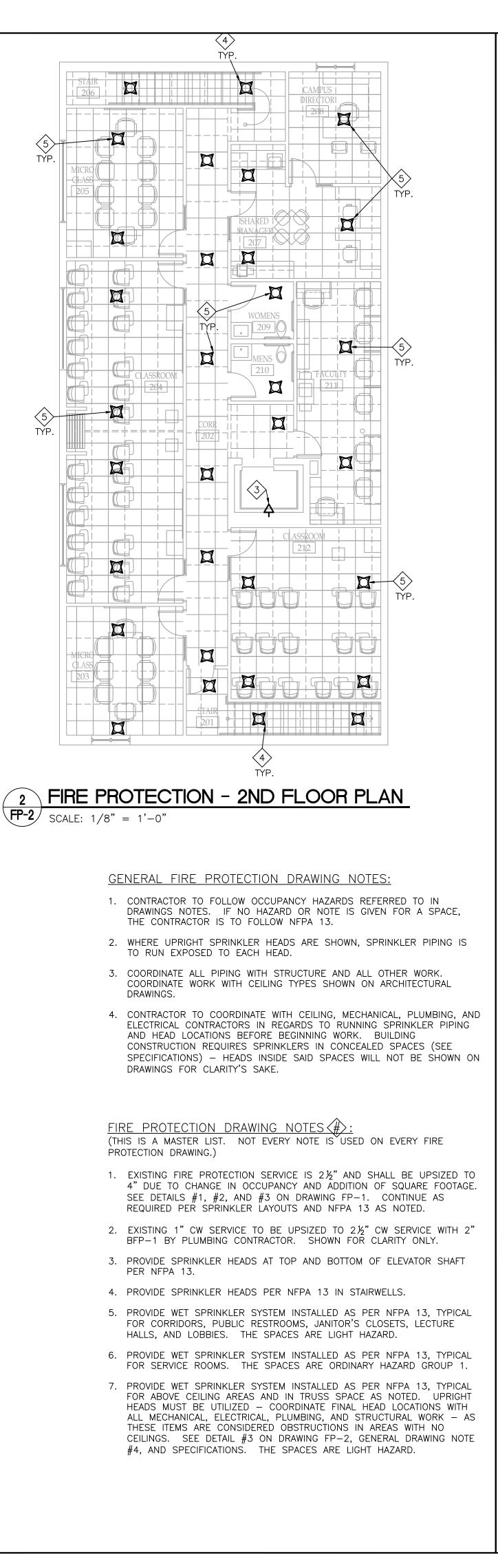
11. The hydraulic calculations shall be based on the flow test data listed below (this information shall be provided by the fire

12. Piping shall be sloped to drain back to sprinkler riser. Auxiliary drainage in accordance with NFPA 13 shall be provided

13. Pipe all drains and inspector's test to outside, or discharge to a drain approved by the owner for sprinkler discharge. 14. Provide automatic sprinkler below obstructions 48 inches and wider. (platforms, ductwork, stairways, unit heater, etc). 15. Refer to the architectural drawings for reflected ceiling plans and coordinate all work with all other contractors prior to installation of the sprinkler system. Up front field coordination between all contractors is required due to limited space







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