



ELEVATION DETAIL

AREA OF WORK



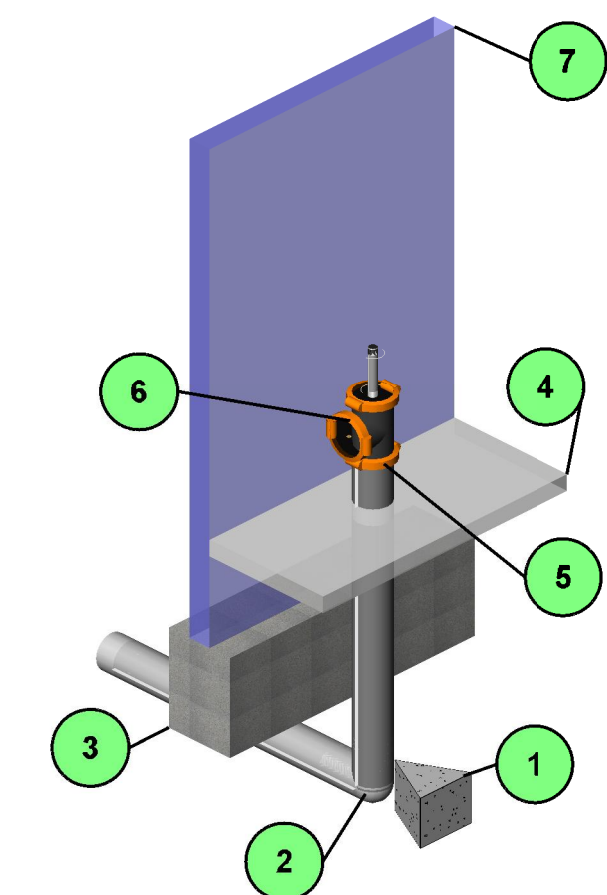
2-1/2" x 2-1/2" x 4" Brass Fire Dept. Connection with Chicago Thrd. @ 32" Above Grade w/10" bell above and sign to read:

SPRINKLER ALARM WHEN BELL RINGS CALL FIRE OR POLICE DEPARTMENT

8" WATER SERVICE (BY OTHERS)

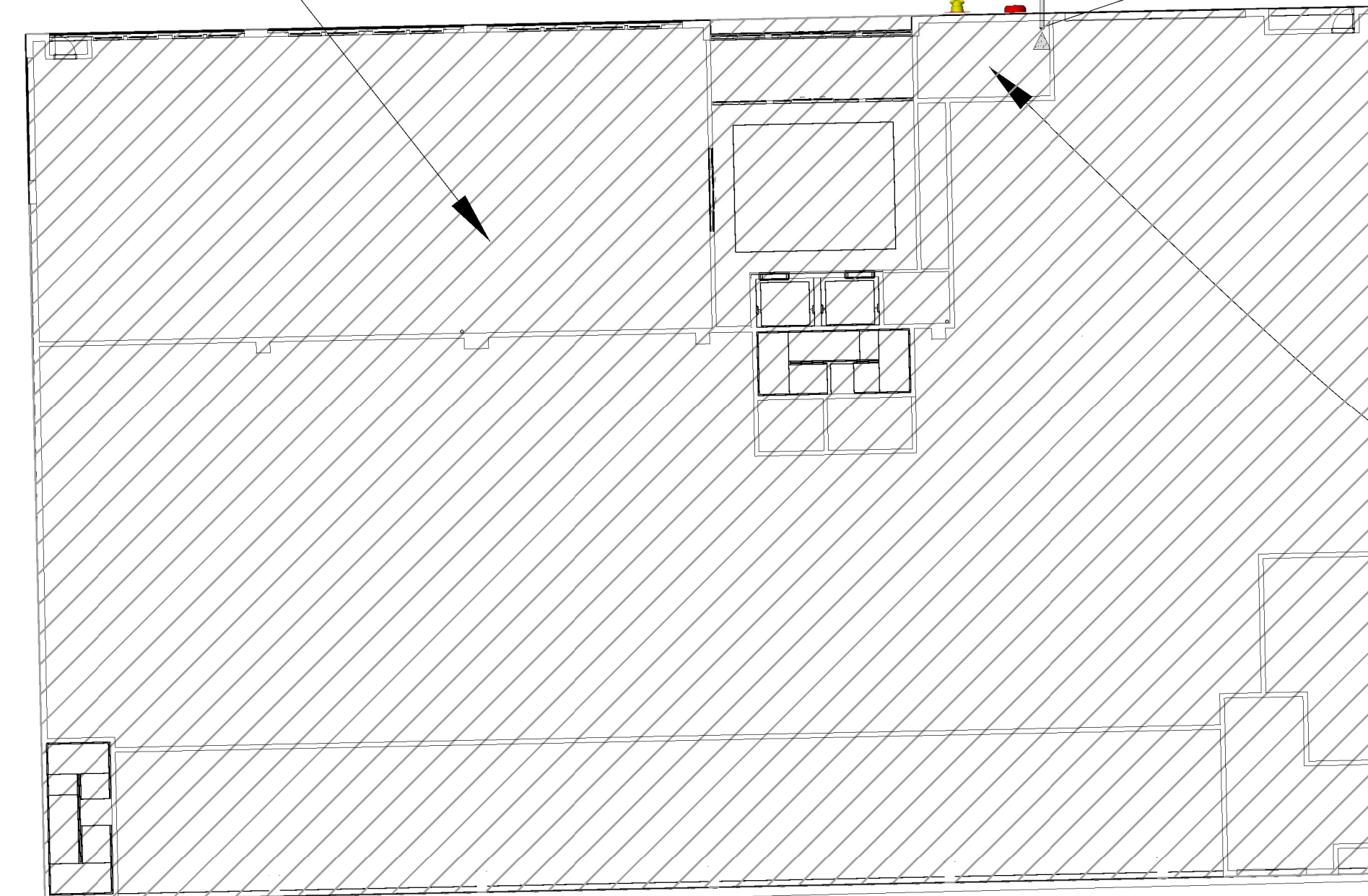
CONTRACT START POINT: FLANGE ABOVE FLOOR

W BELMONT AVE.



Typical U.G. Stub-In Detail	
Part Number Tag	Description
1	Thrust Block
2	SS In-Building Riser
3	Footing
4	Finished Floor
5	Flange / Coupling Above Floor
6	Vic Tee with Domestic Outlet
7	Finished Wall

TYP. SS IN-BUILDING RISER DETAIL NTS



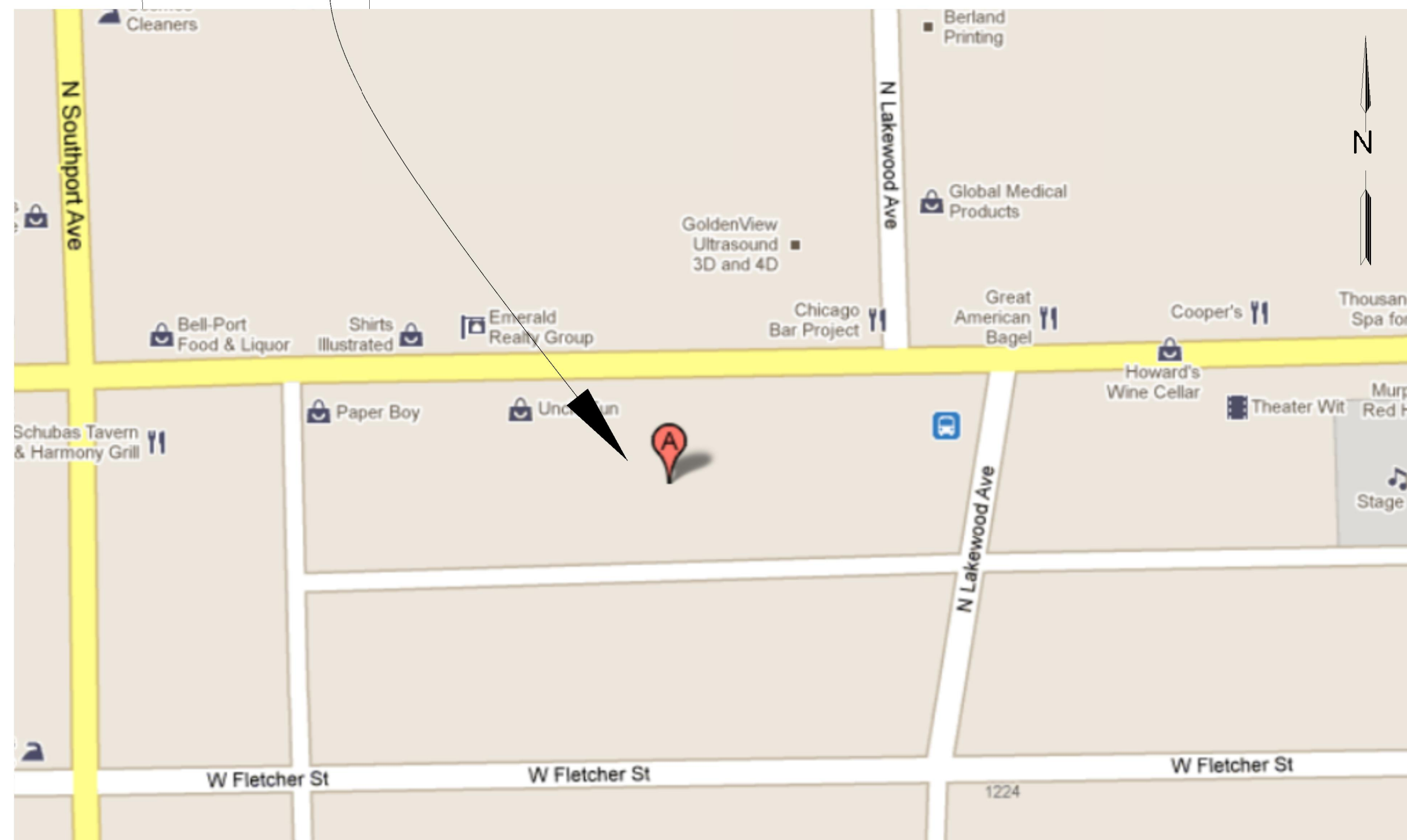
WATER SUPPLY

Static Pressure	44.000
Residual Pressure:	38.000
Flow	2500.00
Outside Hose Flow	250.00

SPRINKLER RISER ROOM

N LAKEWOOD AVE.

AREA OF WORK



Scope of work

- * Provide automatic fire-sprinkler system throughout the entire building per Chicago Fire Code
- * System designed for:
 1. Wet System: Light Hazard at 0.10 gpm per 1500 sq/ft
 - * Maximum coverage for sprinkler shall not exceed: 225 sq/ft for Light Hazard Occupancy (or Sprinkler Listing)
 2. Dry System: .25/2500 + 30% increase (.25/3250)
 - * Maximum coverage not to exceed 100 sq. ft.

- * Any painting and/or electrical wiring shall be performed by others.
- * Underground piping installation, flushing, and associated work will be done by others.
- * See hydraulic calculations for design requirements.

Testing and Inspection Notes

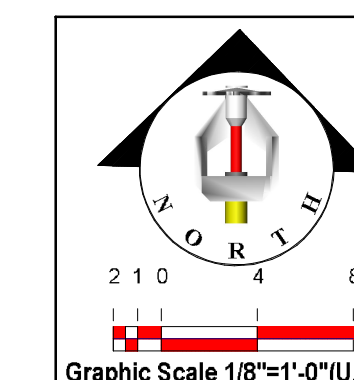
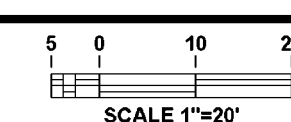
- * Sprinklers system piping to be hydrostatically tested for a period of 2 hours at not less than 200 p.s.i.
- * A contractor's material & test certificate for aboveground piping is to be provided at the completion of the system installation.
- * Authority having jurisdiction to be notified 24 hours prior to conducting any inspections, main drain and alarm tests.
- * Authority having jurisdiction to receive a copy of any test and or inspection forms that have been completed.

Fire Protection General Notes

- * Sprinkler system layout and installation as per Chicago Fire Code
- * All new hangers to be sized and spaced as per Chicago Fire Code
- * All 1-1/4" and larger piping shall be Dyna-Flow w/ grooved fittings as listed by U.L., approved by FM and provided by Chicago Fire Code.
- * 1" line piping shall be Dyna Thread fitted with cast iron screwed fittings.
- * Flow in the system shall be monitored with a vane-type water-flow switch.
- * Main-drain to drain to a location able to accept full flow at system pressure. (Main drain to floor drain by others)
- * Auxiliary drains (if required) to be piped as per Chicago Fire Code
- * Additional spare heads and wrench to be provided as per Chicago Fore Code.
- * No combustible construction is allowed above ceilings, below floors, or in concealed spaces.
- * All sprinklers shall have their deflectors installed below roof and or ceiling assemblies between:
 - 1st Floor 1" and 12".
 - 2nd Floor 1" and 12".
 - 3rd Floor 1" and 12".
- * All valves shall be permanently identified to their use.
- * The indicating control valve shall be supervised with tamper switches.
- * Adequate heat to be provided by owner for all wet piping to avoid freezing.

CITY OF CHICAGO APPROVAL STAMP

FIRE SPRINKLER SITE PLAN

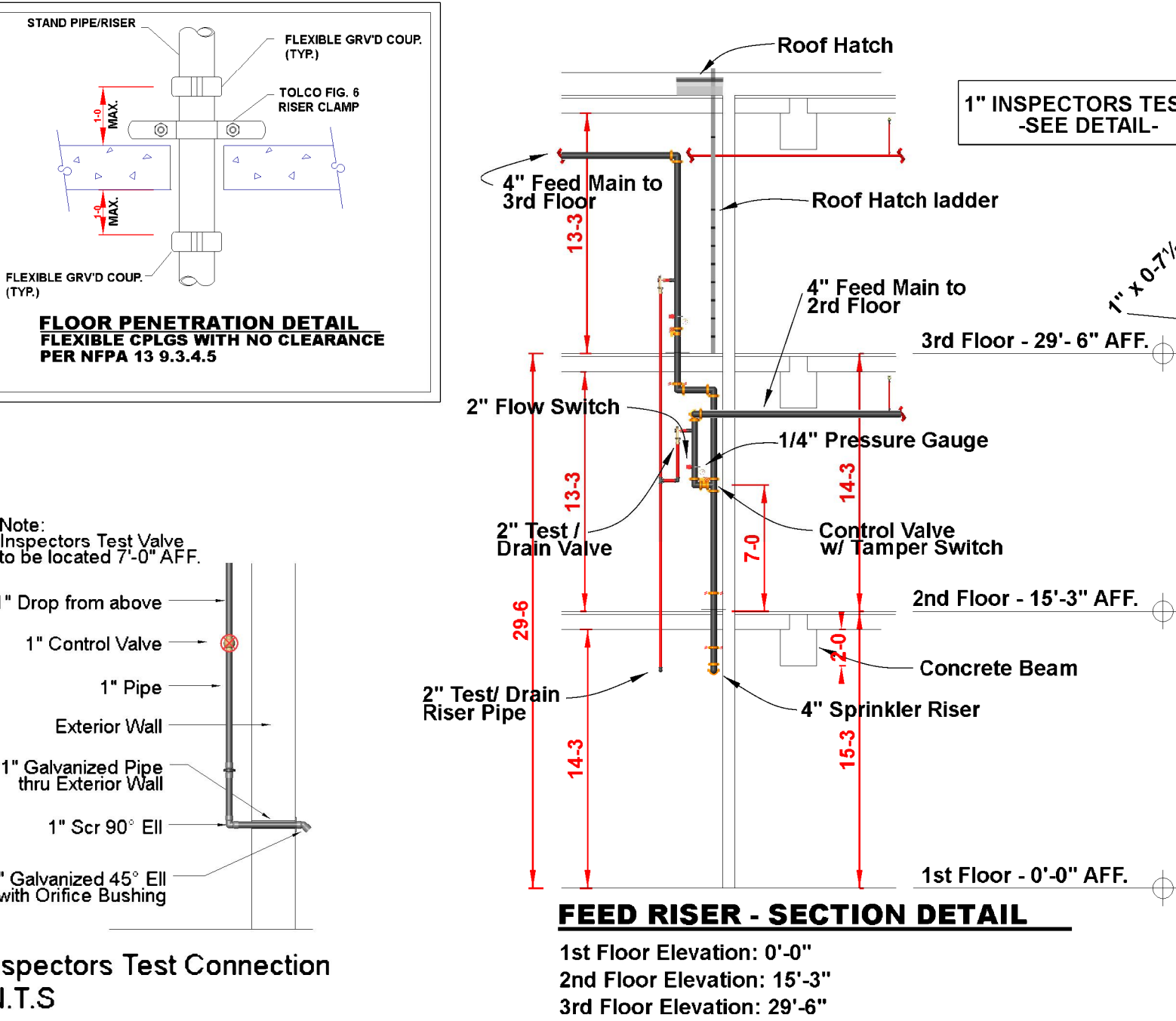


Sprinkler Legend									
Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Orifice	Finish	Temperature	Note

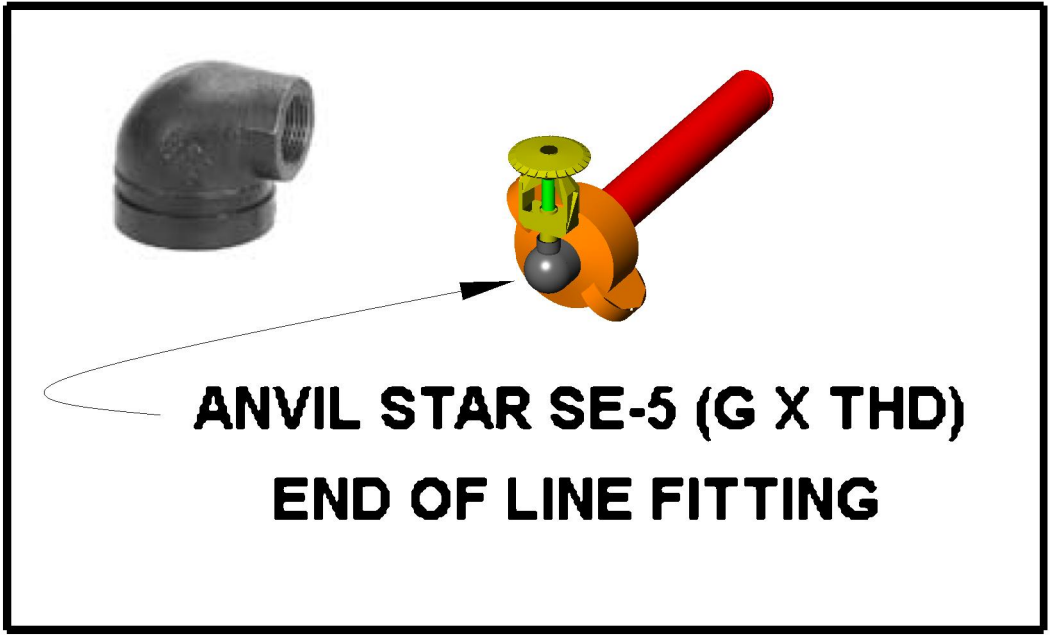
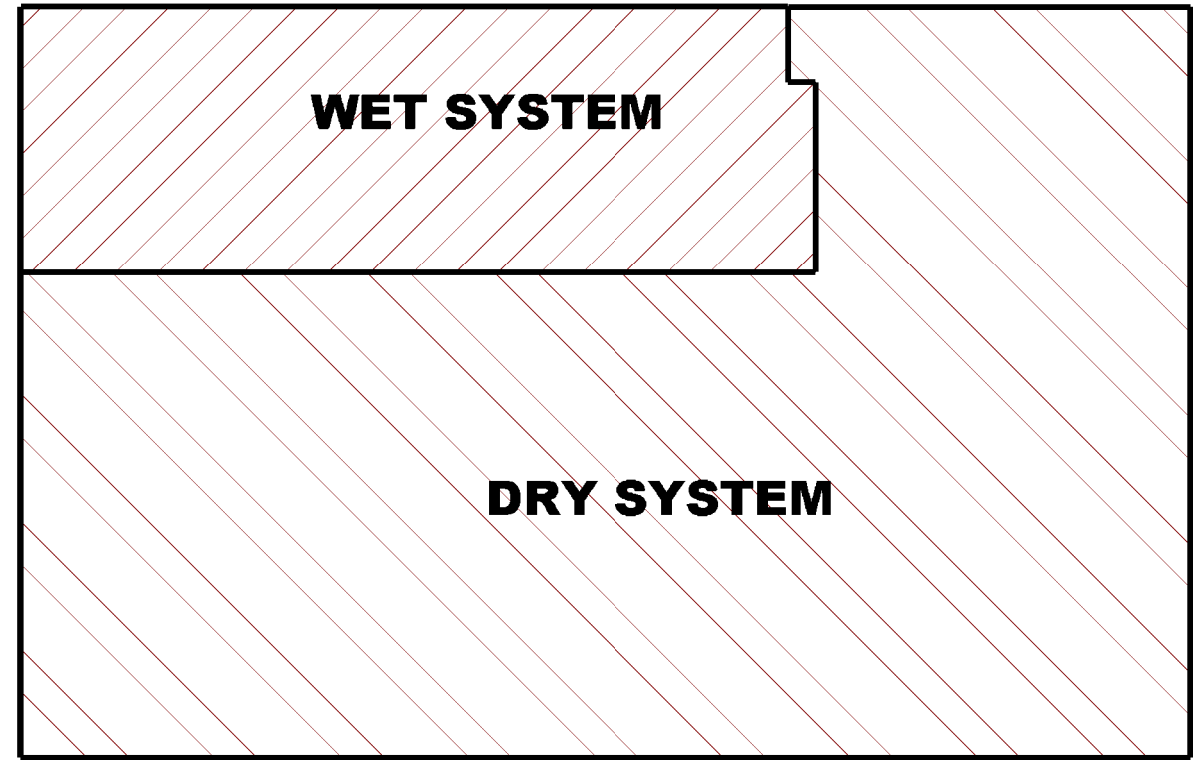
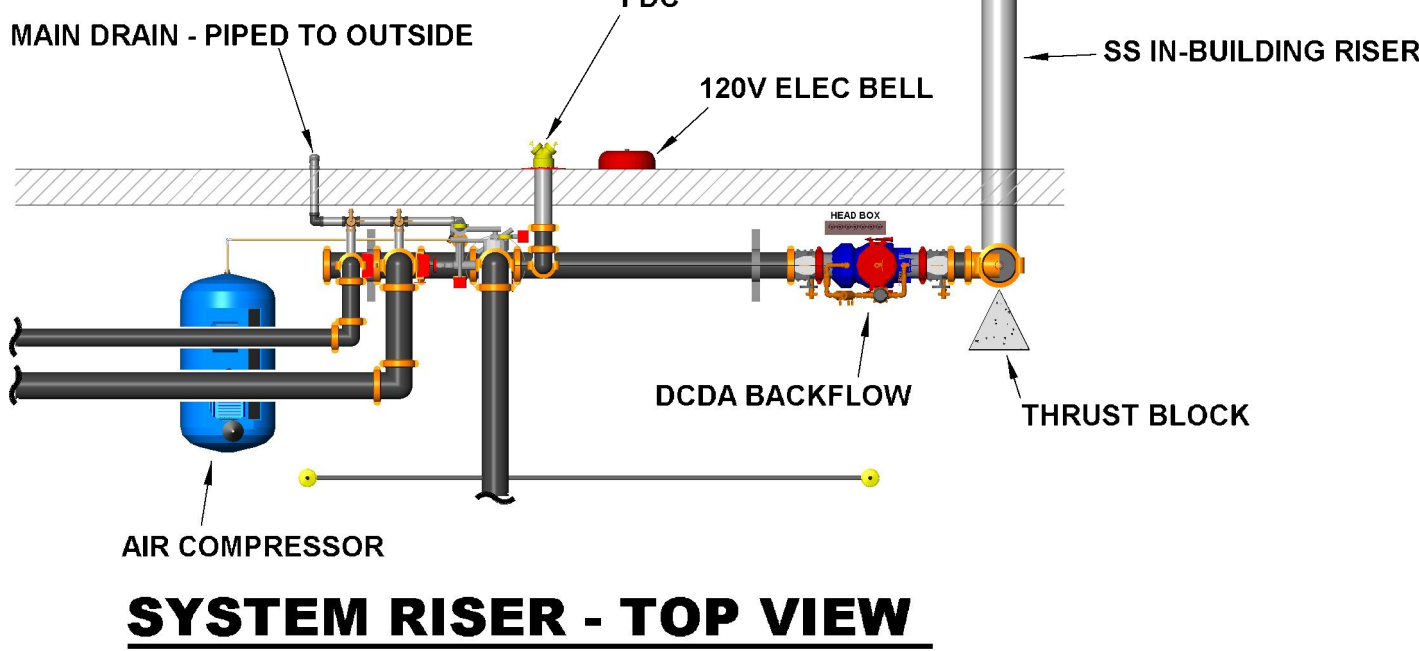
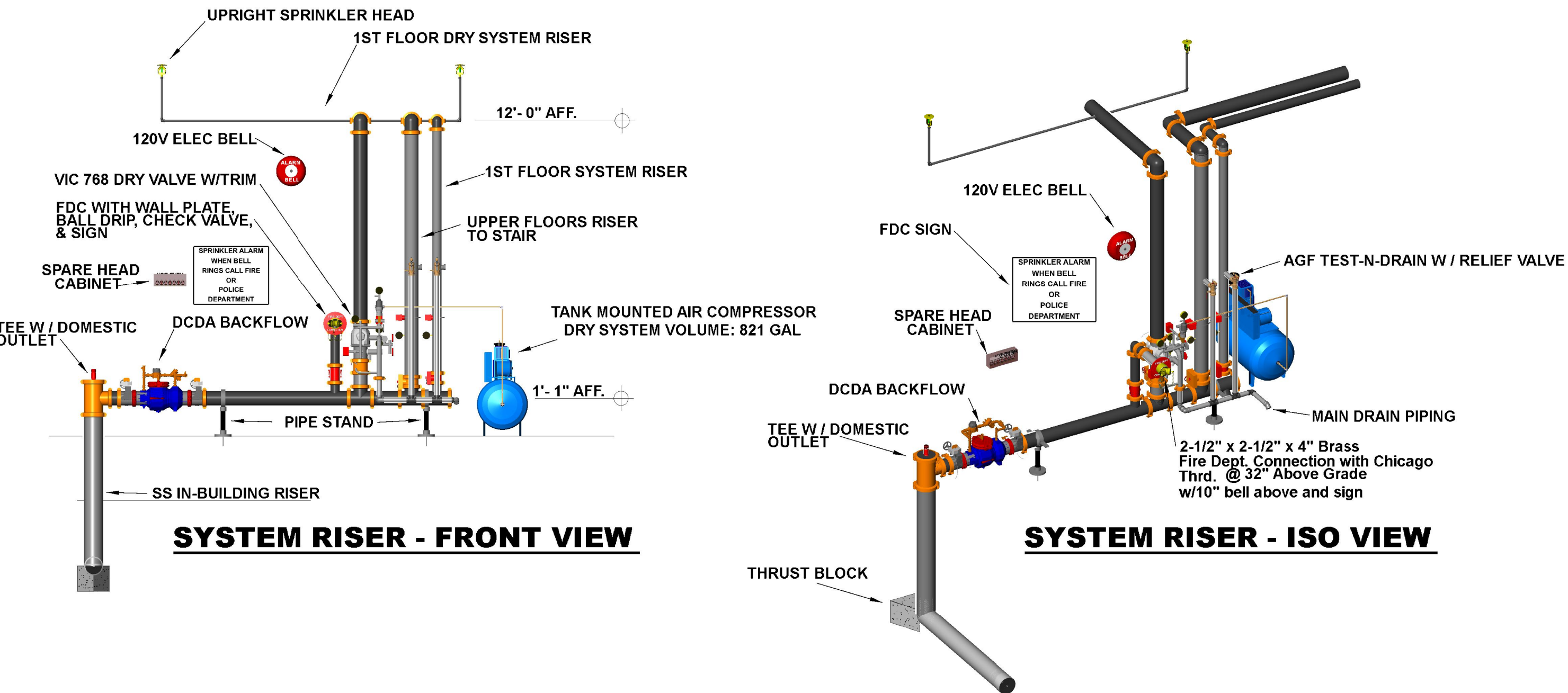
REVISIONS		
NO.	DATE	DESCRIPTION
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PROJECT	1325-1341 Belmont Chicago, IL	LOC NO. 1
AREA	New Building	DATE 06/21/11
OWNER	Grand Building	SHEET 01
SCALE	As Noted	DRAWING FP1 OF 4

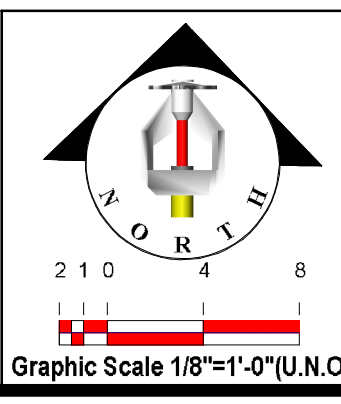
Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft² for 1500.00ft² (Actual 1614.06ft²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	300.69
TOTAL PRESSURE REQUIRED	39.093
BASE of RISER (gpm)	200.69
BASE of RISER (psi)	39.066
SAFETY MARGIN (psi)	+4.788 (10.9%)



Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Ordinary Group II
DENSITY	0.250gpm/ft² for 3250.00ft² (Actual 3299.66ft²)
TOTAL HOSE STREAMS	250.00
DRY CAPACITY	820.65gal
TOTAL HEADS FLOWING	39
K-FACTOR	8
TOTAL WATER REQUIRED	1182.22
TOTAL PRESSURE REQUIRED	36.599
BASE of RISER (gpm)	932.22
BASE of RISER (psi)	36.137
SAFETY MARGIN (psi)	+5.900 (13.9%)



1ST FLOOR FIRE SPRINKLER PIPING PLAN

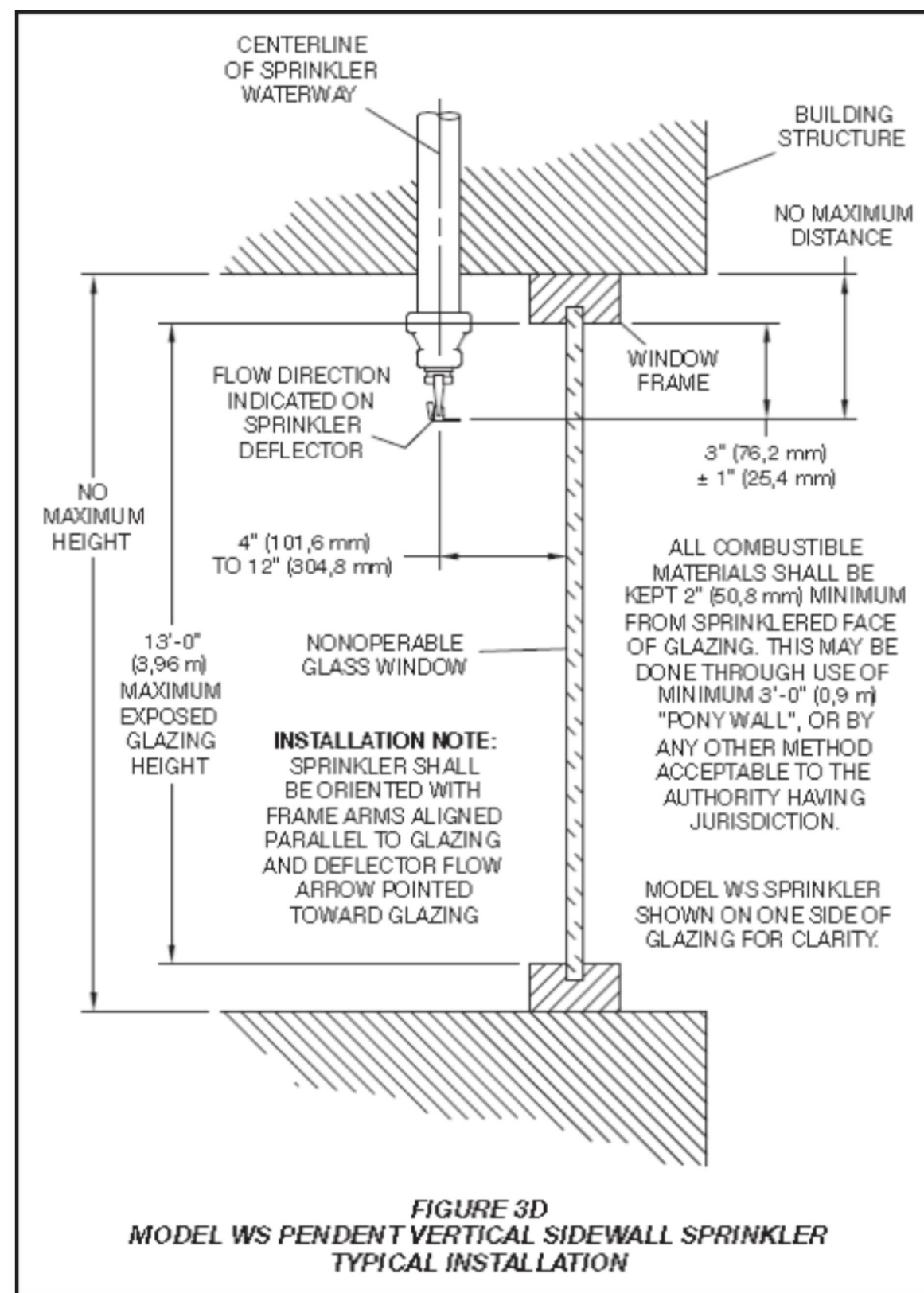


Sprinkler Legend					
Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type
●	Reliable	RA1414	17	5.6	Pendent
○	Reliable	RA1425	28	5.6	Upright
⊗	Reliable	R3622	205	8.0	Upright
Total = 250					

REVISIONS		
NO.	DATE	DESCRIPTION
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PROJECT		JOB NO. 1	
Lakeview Medical Campus		1325-1341 Belmont	
Chicago, IL		DATE: 06/25/11	
DRAWN BY: [Signature]		SCALE: As Noted	
CHECKED BY: [Signature]		SCALE: As Noted	
APPROVED BY: [Signature]		SCALE: As Noted	
DATE: 06/25/11		SCALE: As Noted	
DRAWING		FP1	
OF 4			

Hydraulic Information	
	Remote Area 3
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft² for 1500.00ft² (Actual 1633.74ft²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	11
K-FACTOR	8
TOTAL WATER REQUIRED	354.31
TOTAL PRESSURE REQUIRED	37.243
BASE of RISER (gpm)	254.31
BASE of RISER (psi)	37.201
SAFETY MARGIN (psi)	+6.596 (15.0%)



WINDOW SPRINKLER DETAIL

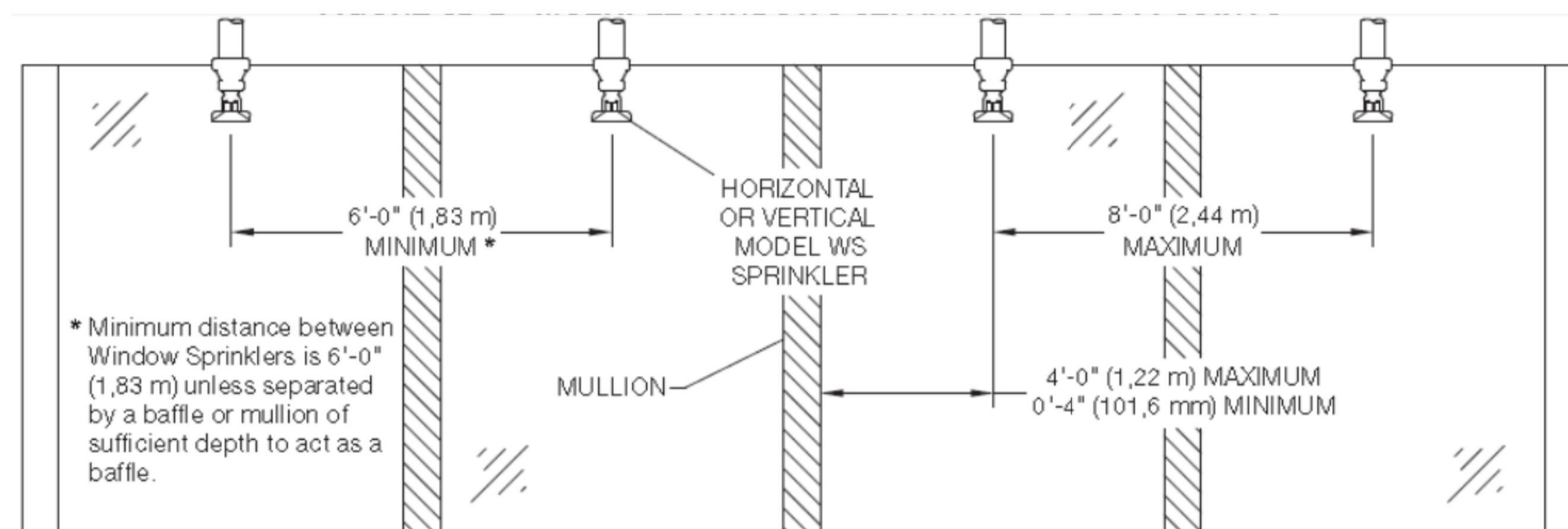
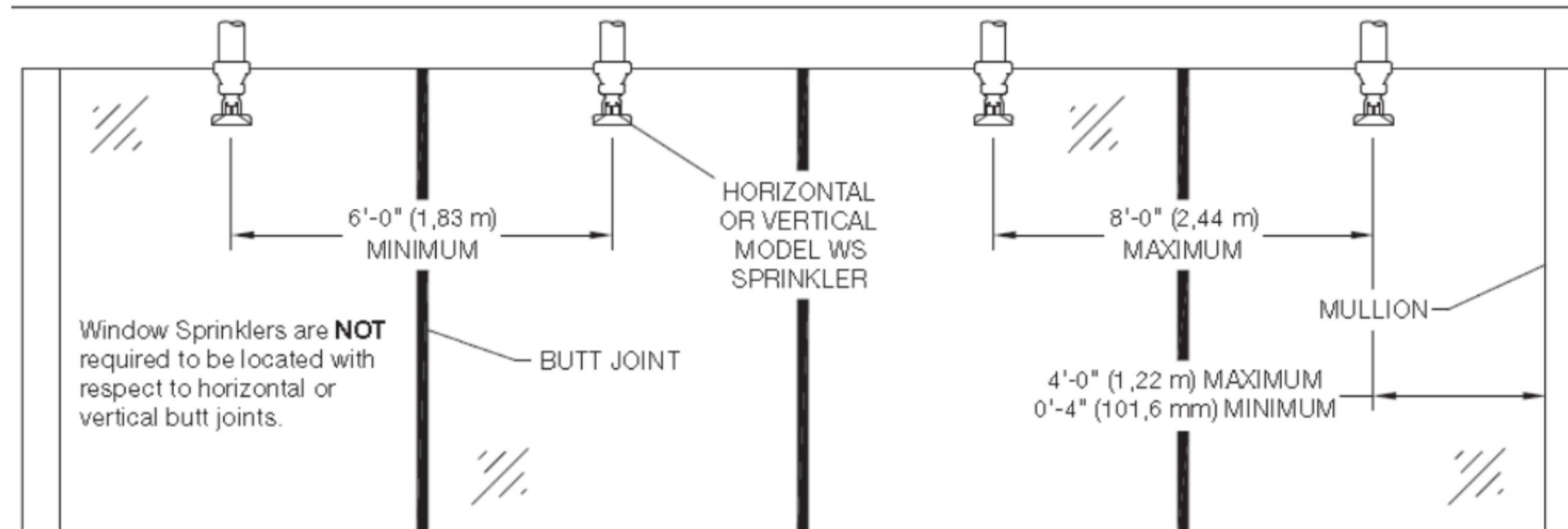
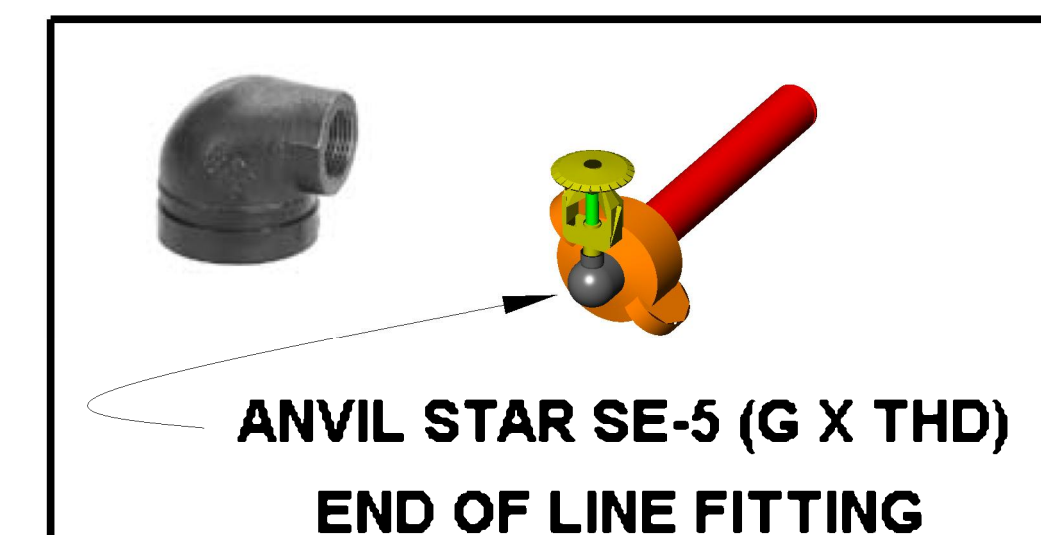
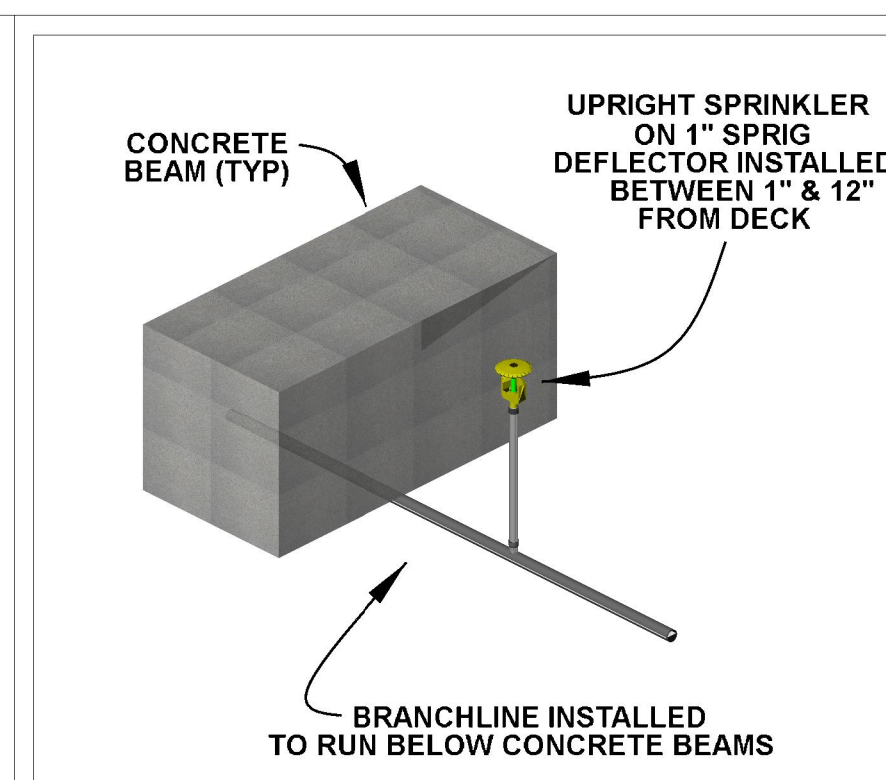
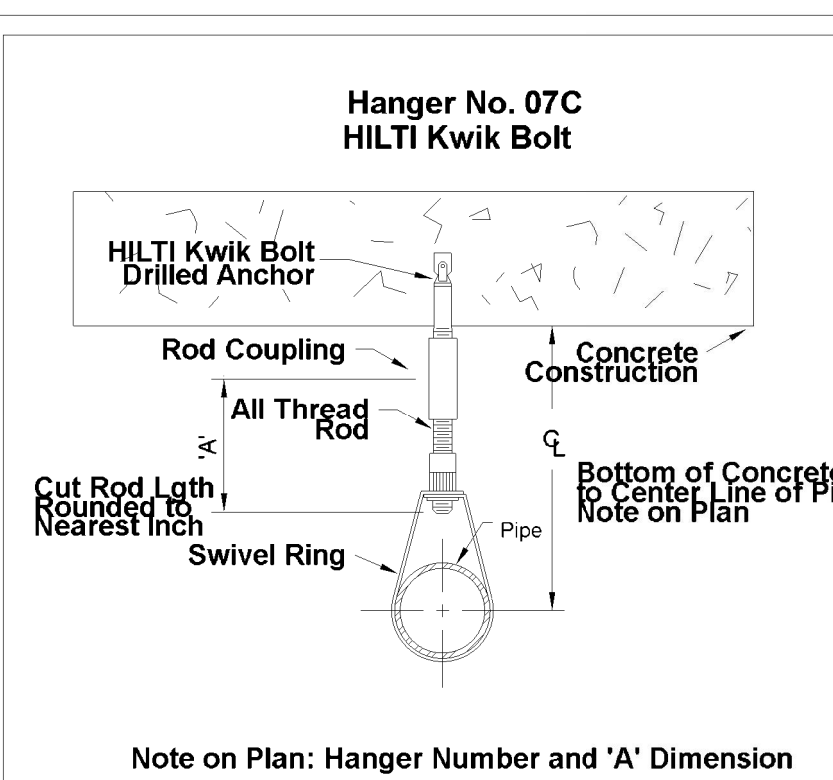
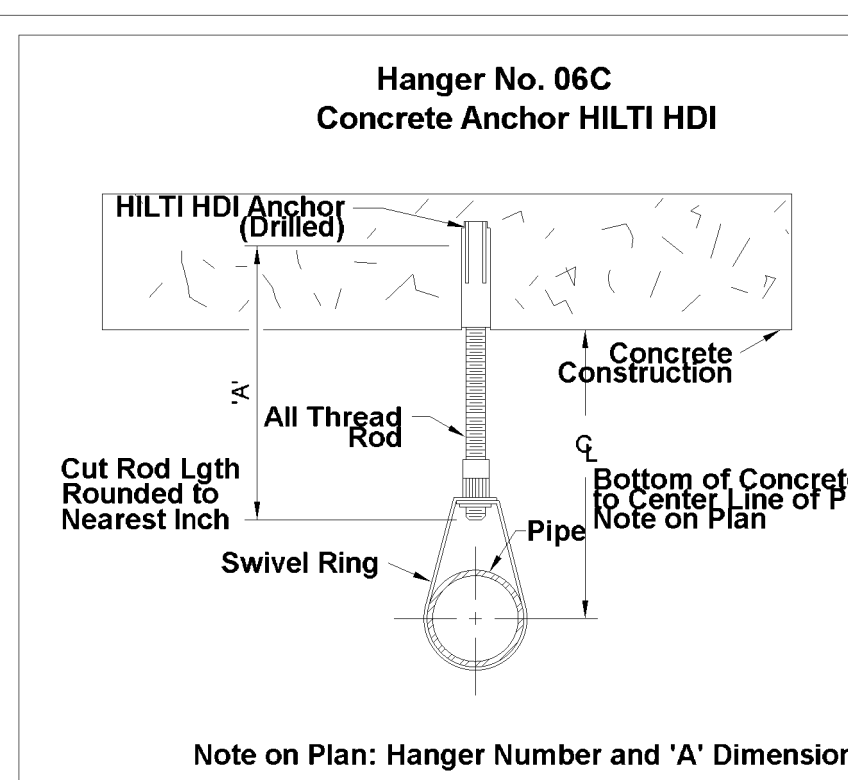
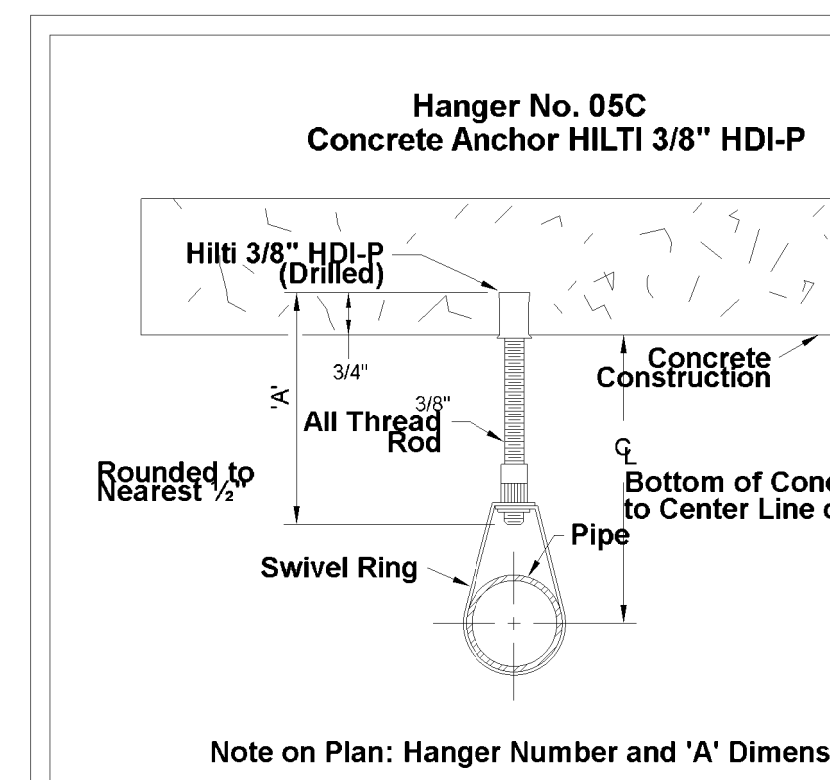
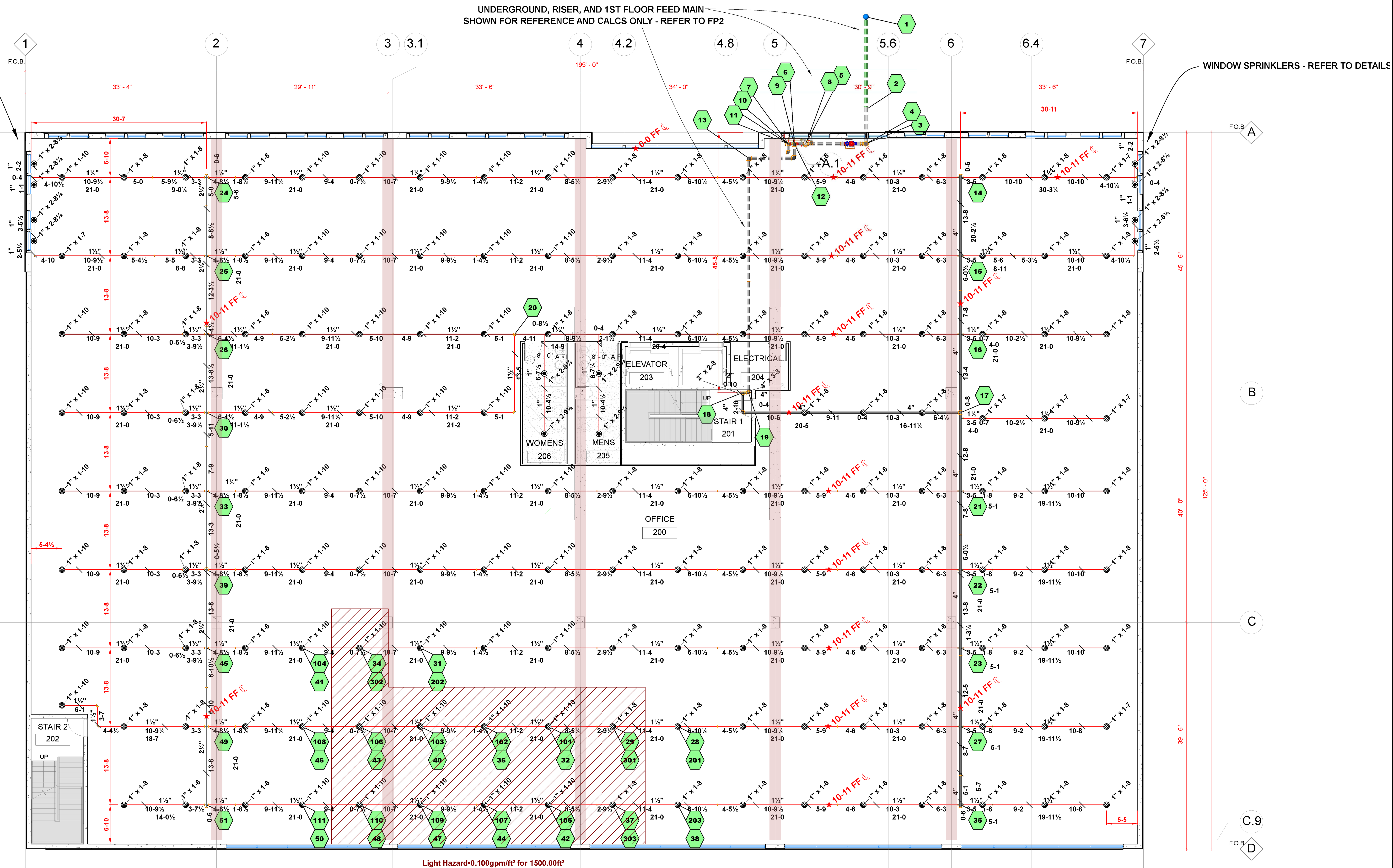


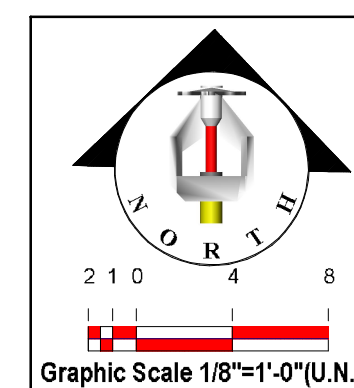
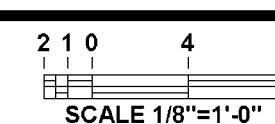
FIGURE 3B-1 - MULTIPLE WINDOWS SEPARATED BY MULLIONS






WINDOW SPRINKLER DETAIL



2ND FLOOR FIRE SPRINKLER PIPING PLAN

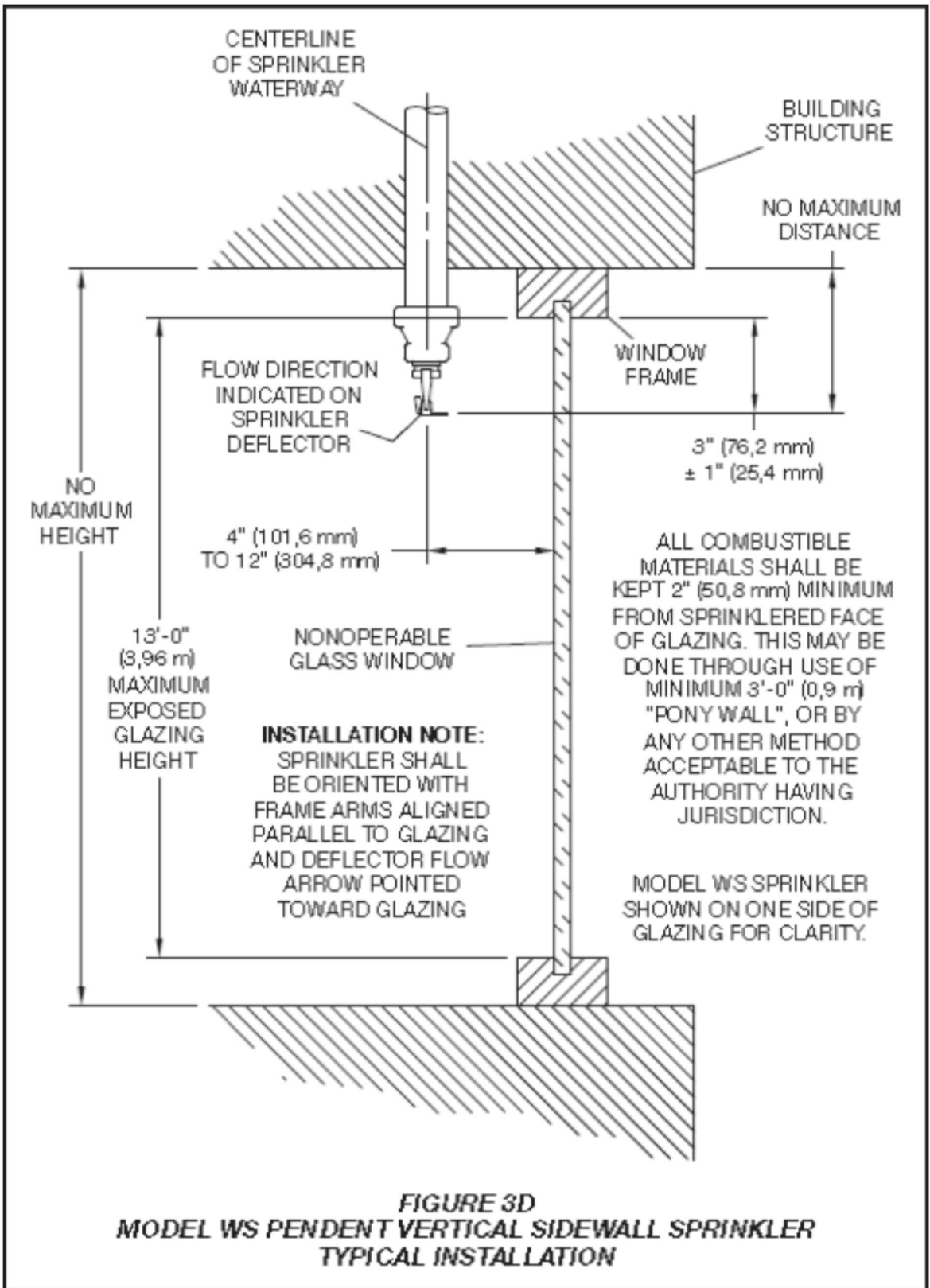


Sprinkler Legend									
Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Orifice	Finish	Temperature	Note
	Reliable	R3622	157	4	Upright	17/32"	Brass	155 °F	
	Reliable	RA1414	4	5	Pendent	1/2"	Chrome	155 °F	
	Central	TY3388	8	5.6	Other	1/2"	Brass	155 °F	WINDO
			Total = 169						

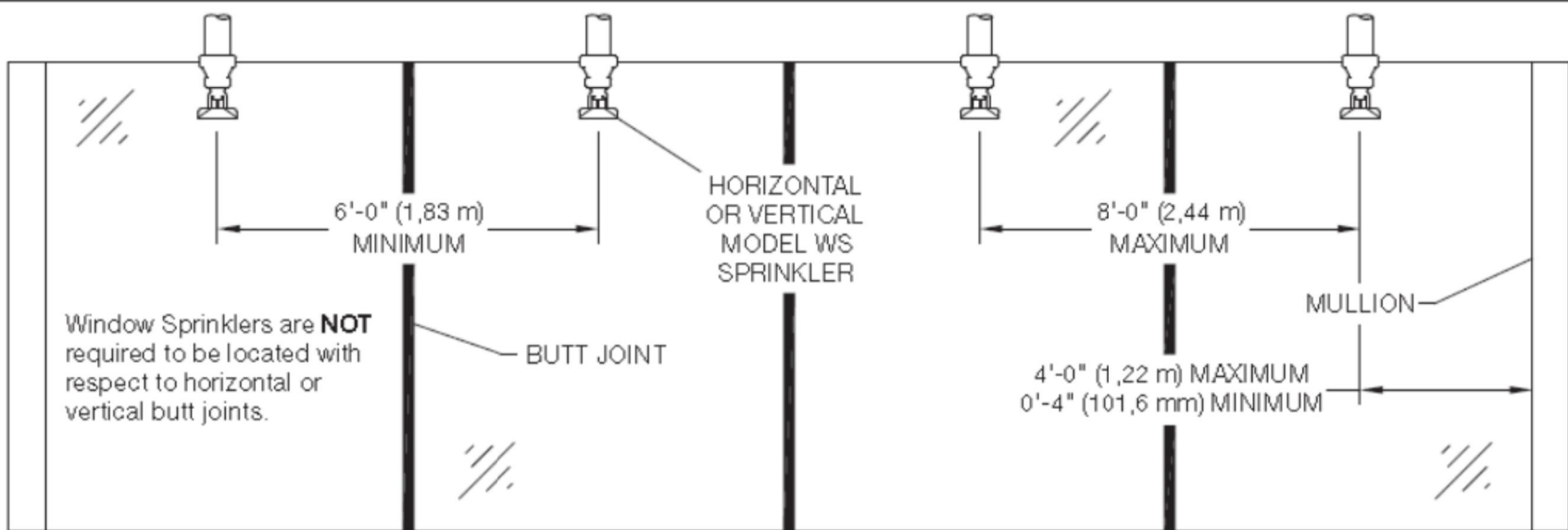
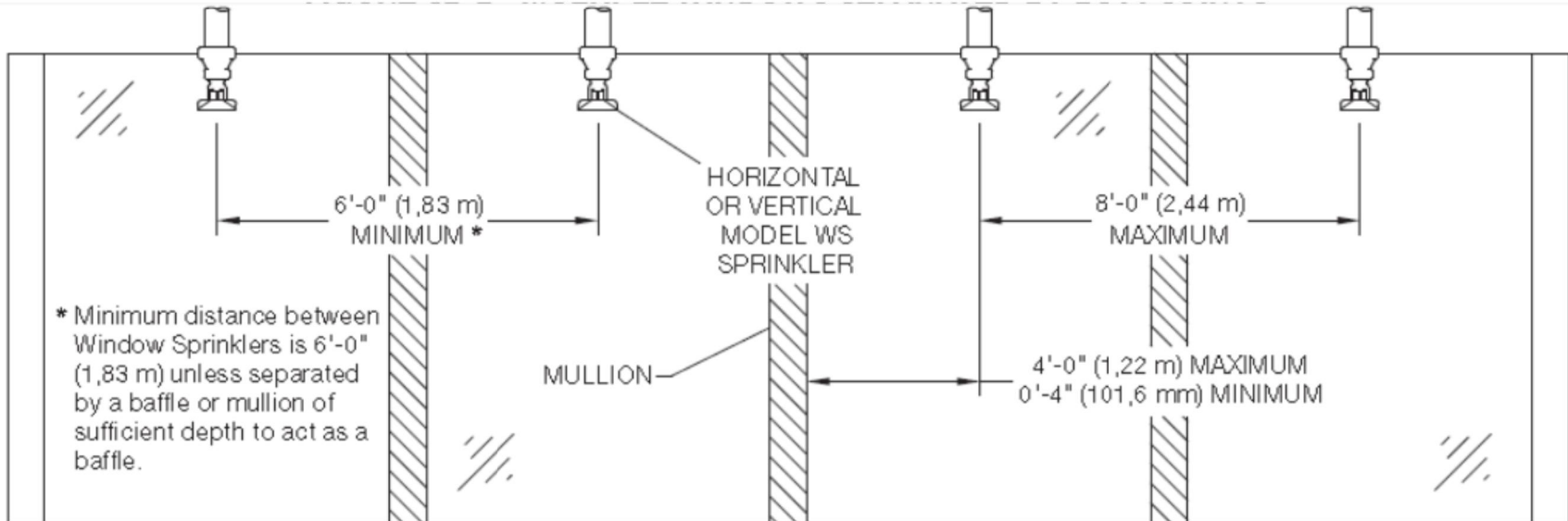
[illegible]

PROJECT:		JOB NO.: 1	
<h1>Lakeview Medical Campus</h1> <h2>1325-1341 Belmont</h2> <h3>Chicago, IL</h3>			
AREA: New Building		DATE: 06/31/11	
DRAWN BY: Gerald Ebling		SIZE: E1	
SCALE: As Noted		DRAWING FP3 OF 4	

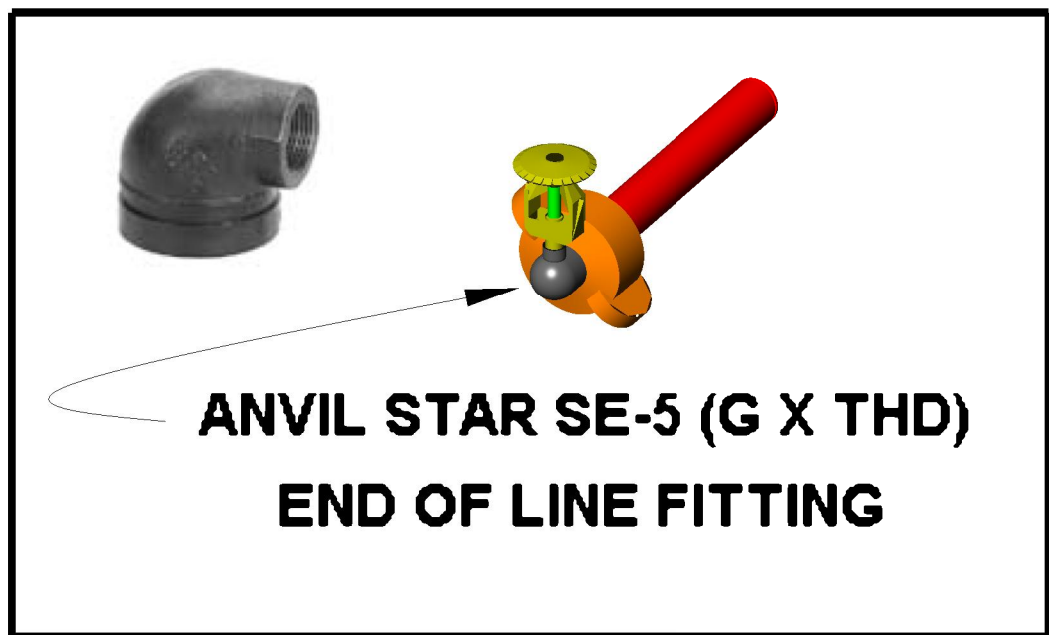
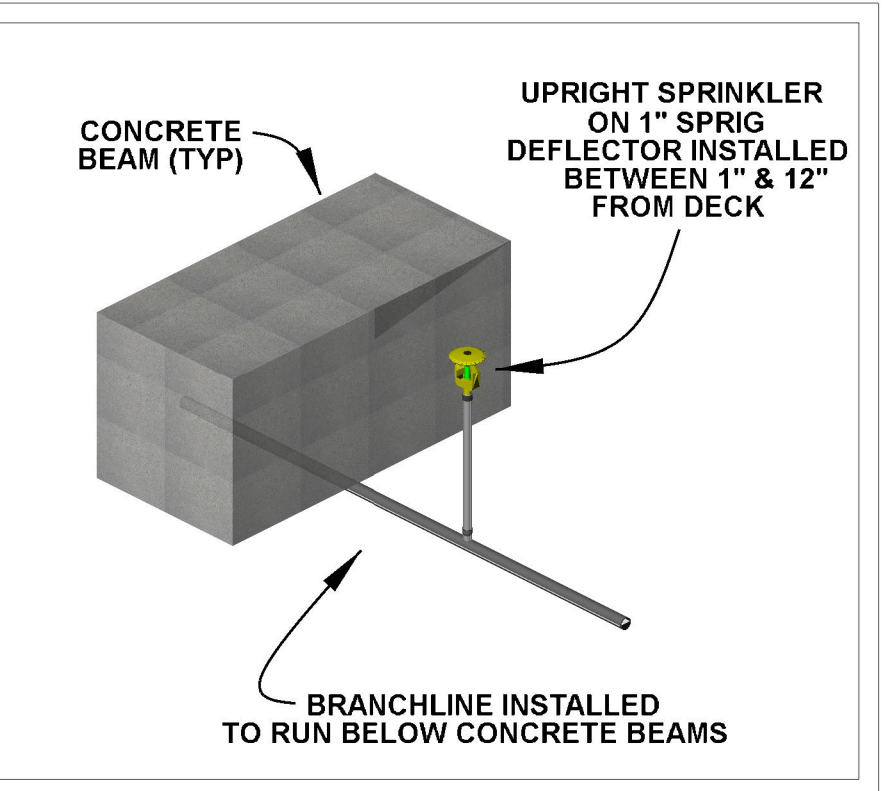
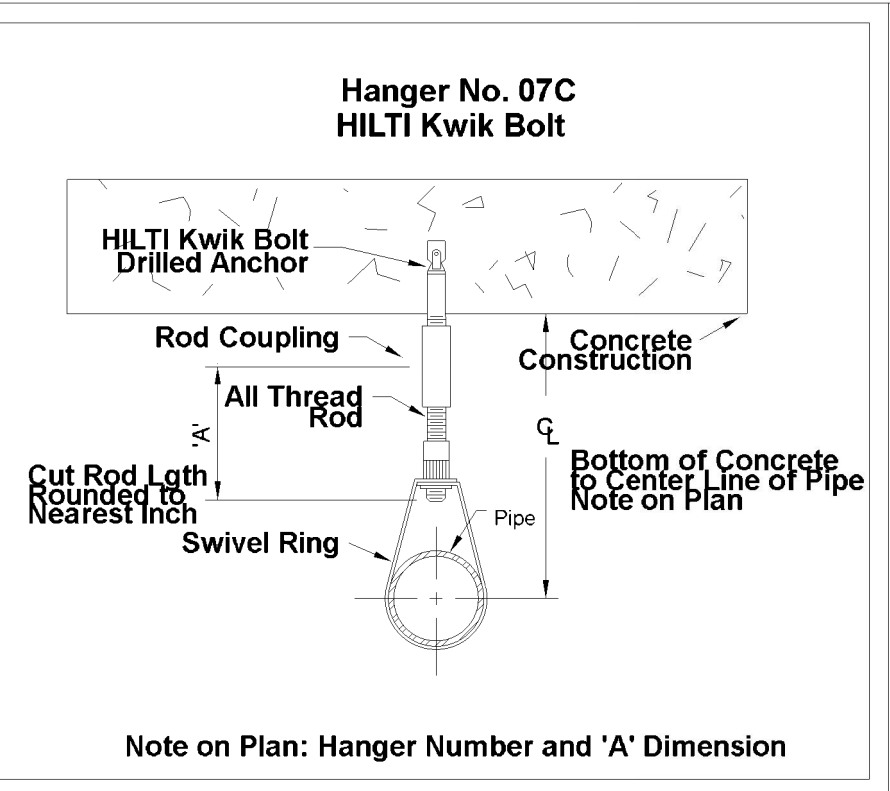
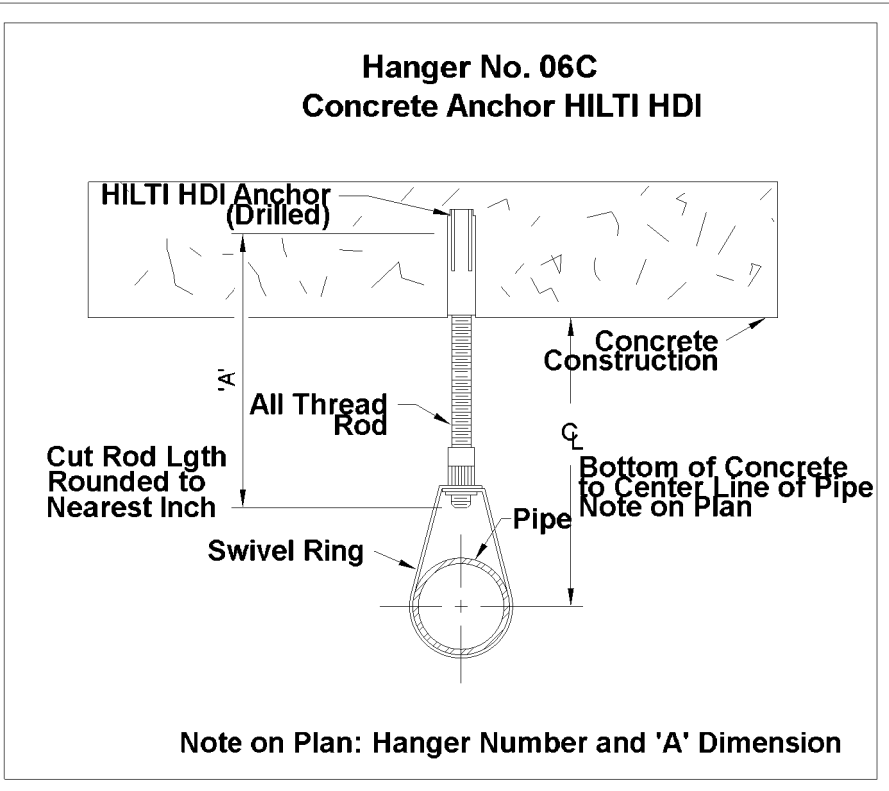
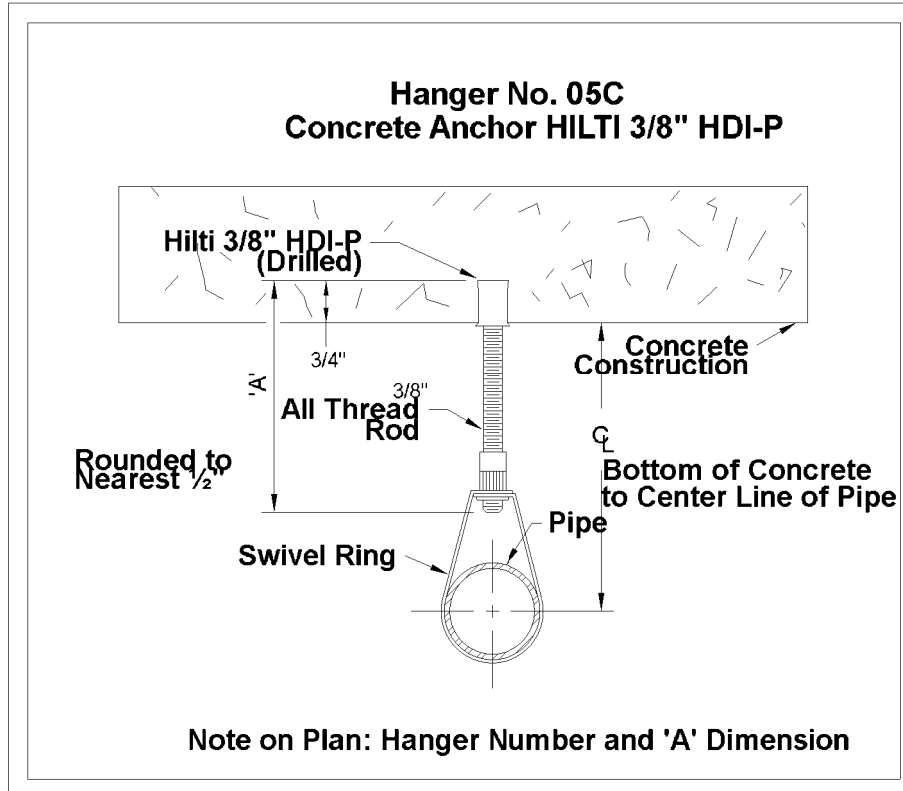
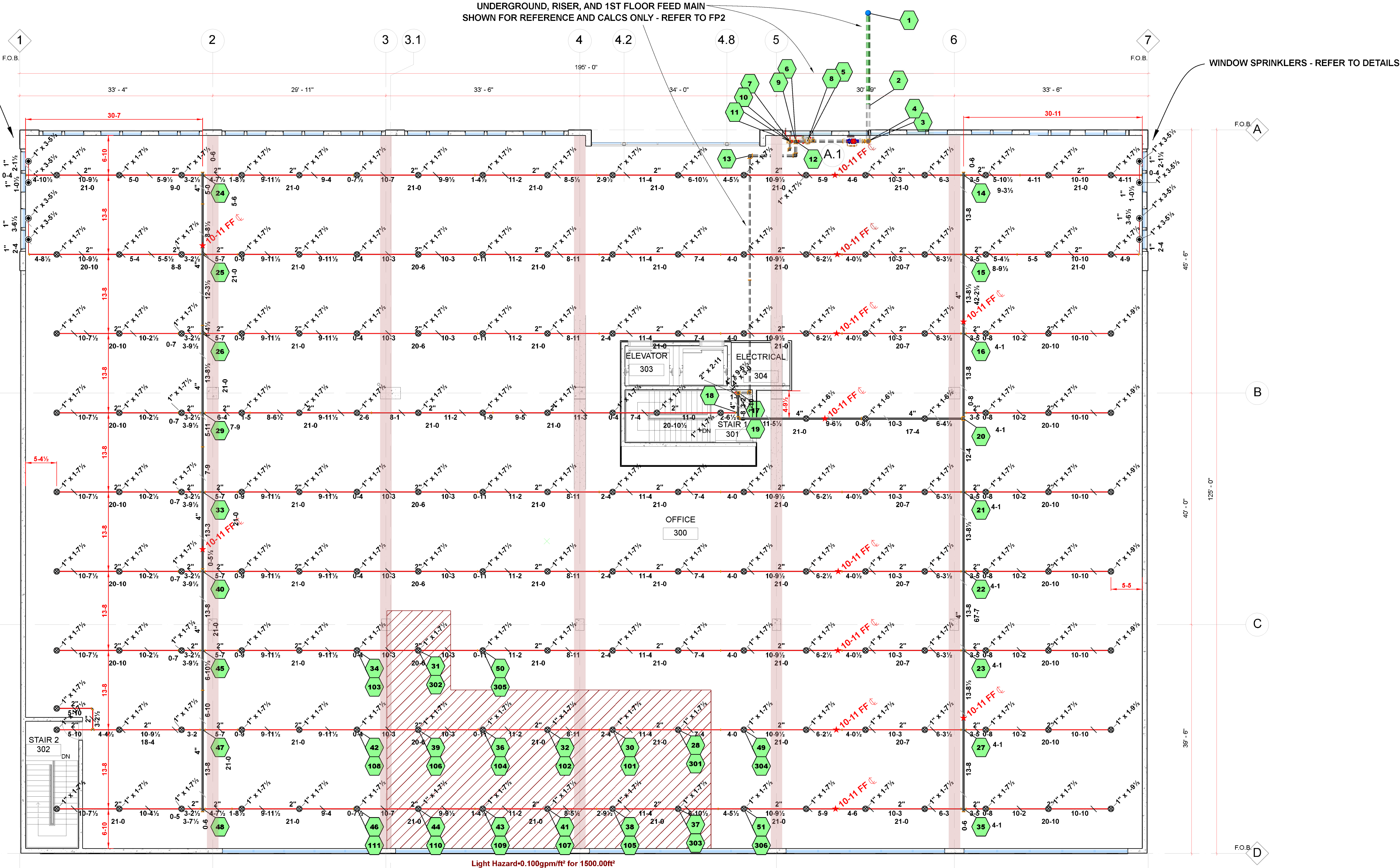
Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft² for 1500.00ft² (Actual 1633.74ft²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	11
K-FACTOR	8
TOTAL WATER REQUIRED	349.80
TOTAL PRESSURE REQUIRED	38.466
BASE of RISER (gpm)	249.80
BASE of RISER (psi)	38.426
SAFETY MARGIN (psi)	+5.376 (12.3%)



WINDOW SPRINKLER DETAIL

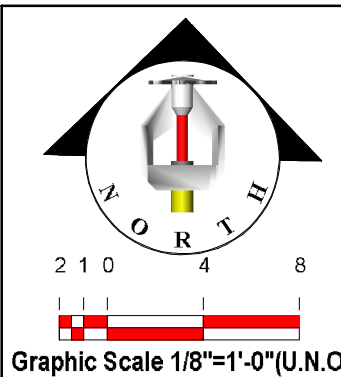


WINDOW SPRINKLER DETAIL



3RD FLOOR FIRE SPRINKLER PIPING PLAN

2 1 0 4 8
SCALE 1/8"=1'-0"



Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Orifice/Finish	Temperature	Note
Reliable	R3622	163	8	5.6	5.6	17/32"	155° F	WINDOW
Central	TY3388	163	8	5.6	5.6	17/32"	155° F	WINDOW
Total = 171								

REVISIONS		
NO.	DATE	DESCRIPTION
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PROJECT		1325-1341 Belmont Chicago, IL
AREA		1325-1341 Belmont Chicago, IL
SCALE		AS NOTED
DATE		06/21/11
DRAWING		FP4