

Sprinkler Design Data

Project Name:	OVERHILLS ELEMENTARY CLASSROOM ADDITION	System:	WET
Project Street Address:	2626 RAY ROAD, SPRING LAKE, NC 28390	Sys. Sq. Ft.:	16,311 +/-
Site:	Floor: 1	Ceiling Height:	VARIES
Designed By:	J&D SPRINKLER CO., INC.	Phone:	919.553.2356
Occupancy:	SCHOOL	Hazard:	LIGHT HAZARD - CLASSROOMS, OH GRP I - MEZZANINE
		Total Bldg. Hgt.:	24'-2 +/-

Design Summary

	System #1	System #2	System #3	System #4	System #5
Design Method	CALCULATED	CALCULATED	CALCULATED		
Design Area #	A	B	C	D	
Location	COLLABORATION	CLASSROOM	CLASSROOM	MEZZANINE	
Type of System	WET	WET	WET	WET	
Hazard Class	LIGHT	LIGHT	LIGHT	OH GRP I	
Criteria From	NFPA 13 (2013)	NFPA 13 (2013)	NFPA 13 (2013)	NFPA 13 (2013)	
Design Area	1500 SF	900 SF	900 SF	5 HEADS	
Sprinkler Spacing	324 MAX	324 MAX	324 MAX	130 MAX	
Density	0.10	.10	.10	.10	
K-factor	8	8	8	8	
Hose Allowance	100	100	100	250	
# Design Sprinklers	6	6	6	5	
Special Application Spk.					
Requirement @ TEST					
G.P.M. Req'd	305.79	374.59	301.42	348.13	
P.S.I. Req'd	106.634	56.241	58.323	28.459	
Requirement @ BASE					
GPM Required	205.79	274.59	201.42	98.13	
PSI Required	107.802	54.023	56.618	27.243	
Safety factor @ Test	20.152	69.803	71.679	99.100	
Dry Sys. Volume (gal)					

Water Supply Information - Fire Pump Test

Tested by	CAROLINA FIRE PROTECTION	Date/Time	-	Pressure Hydrant	-
Hydrant Elevation	-	Flow Hydrant #1	-	Flow Hydrant #2	-
Static (PSI)	138	Residual (PSI)	92	Flow (gpm)	776

Copy of Water Test Data Included with Calculation is required

Fire Pump Data

Rated G.P.M.	750	Rated Pressure	80	Horsepower	---
Diesel/Electric	DIESEL	Churn Pressure	-	Style of pump	HORIZONTAL
Combined Discharge	-	150%/1% Flow (suction)	---	150%/1% Flow (gpm)	---

Certified pump curve required

If Storage is Greater than 12 Feet Complete Commodity Storage Design Information

Commodity Description	Storage Height	Storage Type (Rack, Bin, Pile)	Clearance
Stable/Unstable	Open/Close Array		Wet/Dry System
Figure #	Curve #	Density	Height Factor
		Area	Clear Factor
			Array Factor
			Dry Penalty
			Design
			Minimum Design
			Final Design

Is system compliant with Chapter 23 (FPC)? Is storage area layout, rack, and pile plan included?

HANGER INSTALLATION REQUIREMENTS

NOMINAL PIPE SIZE	MAXIMUM DISTANCE BETWEEN HANGERS								
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
BLAZEMASTER CPVC	5' 6"	6' 0"	6' 6"	7' 0"	8' 0"	9' 0"	10' 0"	N/A	N/A
THREADABLE LIGHTWALL	N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A
STEEL PIPE (10/40)	N/A	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"

100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM OVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

TRAPEZE INSTALLATION REQUIREMENTS

SPAN OF TRAPEZE (Schedule 10)	NOMINAL PIPE SIZE SUPPORTED							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
1 FT. 6 IN.	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"
2 FT. 0 IN.	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"
2 FT. 6 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"
3 FT. 0 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2"
4 FT. 0 IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"
5 FT. 0 IN.	2"	2"	2"	2"	2"	2"	2-1/2"	2-1/2"
6 FT. 0 IN.	2"	2"	2"	2"	2"	2-1/2"	2-1/2"	3"
7 FT. 0 IN.	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
8 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
9 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	4"
10 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4"

GENERAL NOTES:

1. MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE NFPA CODES (2013), STATE BUILDING CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND INSURANCE UNDERWRITER'S REQUIREMENTS.

2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.

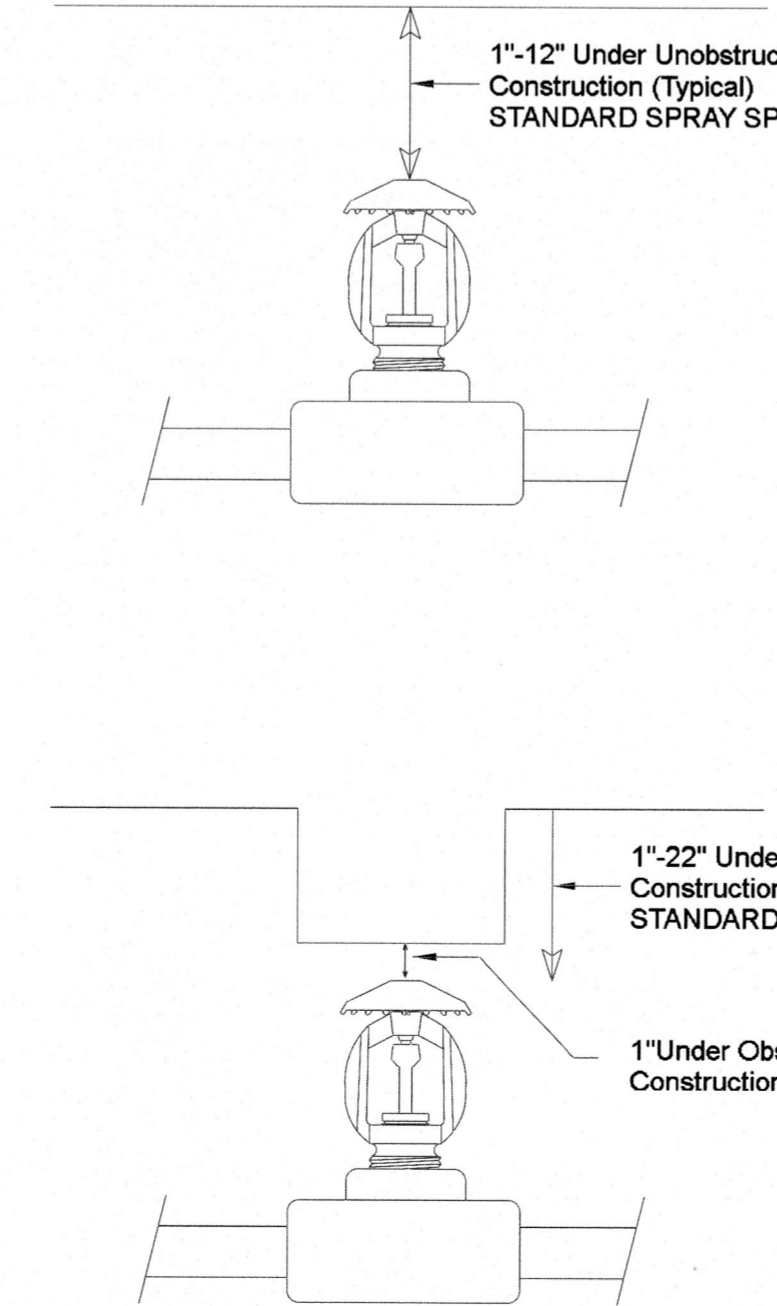
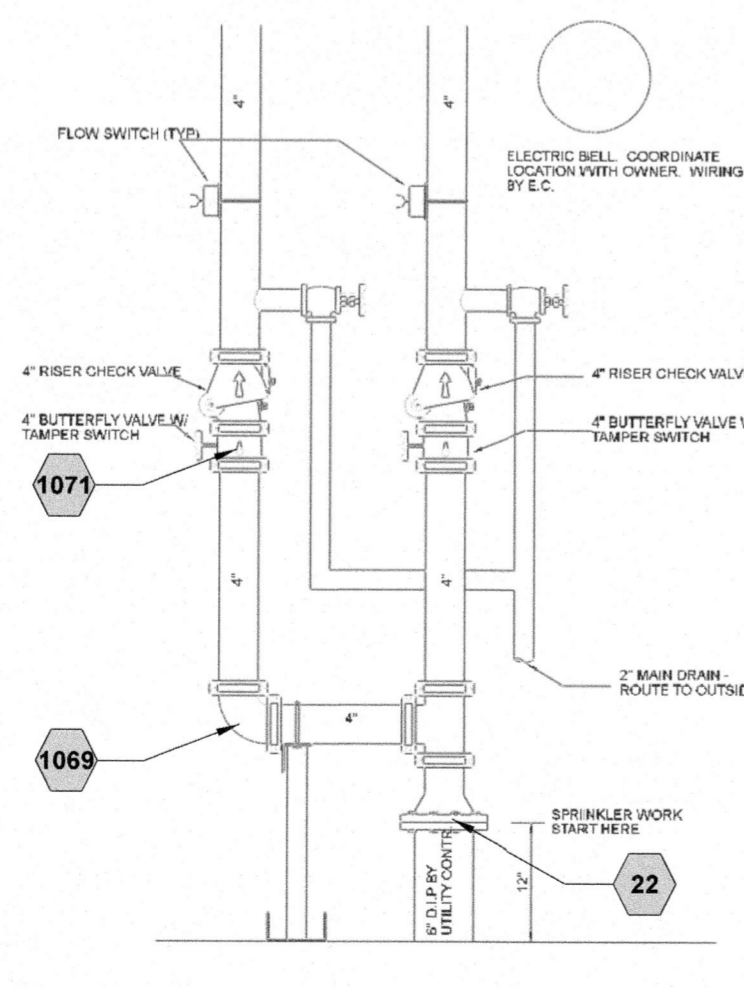
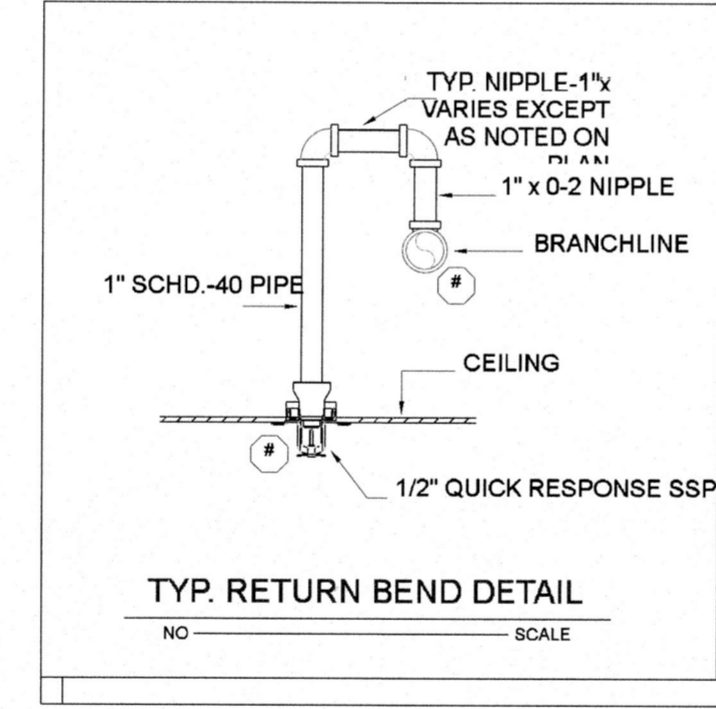
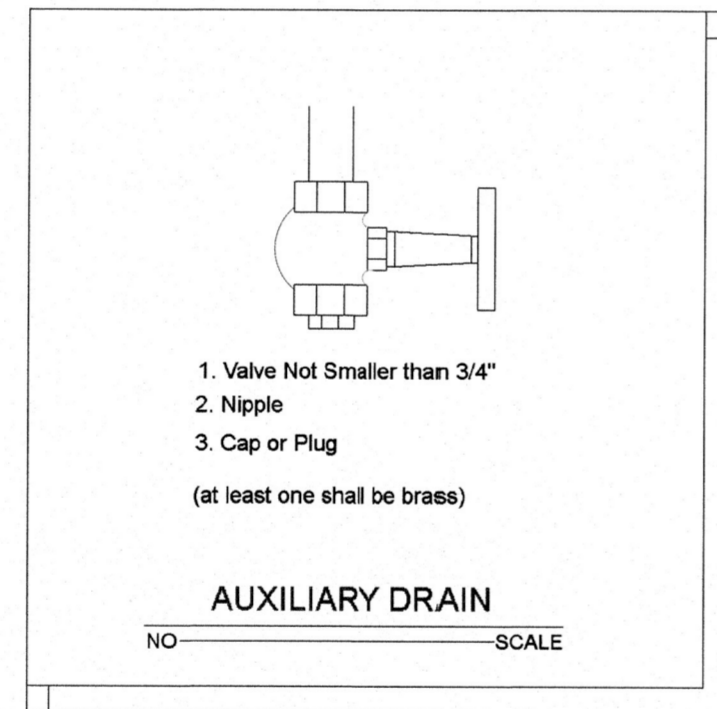
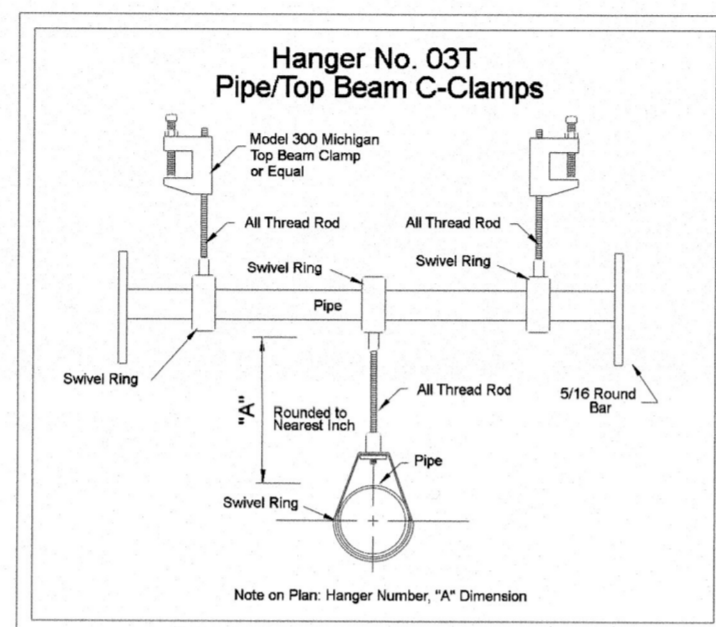
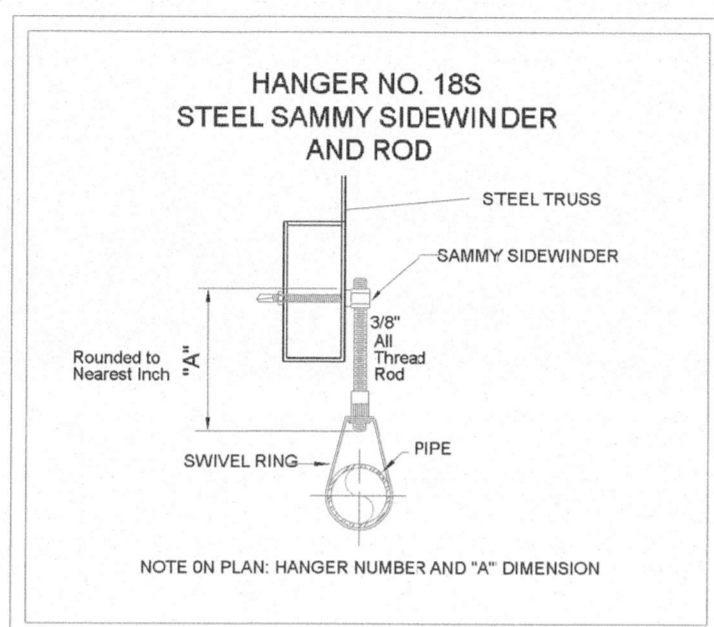
3. ALL NEW SPRINKLER PIPE 1 1/2" AND SMALLER IS SCHEDULE-40 BLACK STEEL WITH THREADED ENDS AND FITTINGS. ALL NEW SPRINKLER PIPE 1 1/2" AND LARGER IS SCHEDULE-10 BLACK STEEL WITH GROOVED ENDS AND FITTINGS.

4. SPRINKLER HEAD SPACING IN CLASSROOM AREAS ARE BASED ON THE NFPA 13 2013 STANDARDS FOR LIGHT HAZARD OCCUPANCIES ALLOWING A MAXIMUM HEAD SPACING OF 225 S.F. PER HEAD. SPRINKLER HEAD SPACING IN MEZZANINE PLATFORM IS BASED ON THE NFPA 13 2013 STANDARDS FOR ORDINARY HAZARD GROUP I OCCUPANCIES ALLOWING A MAXIMUM HEAD SPACING OF 130 S.F. PER HEAD.

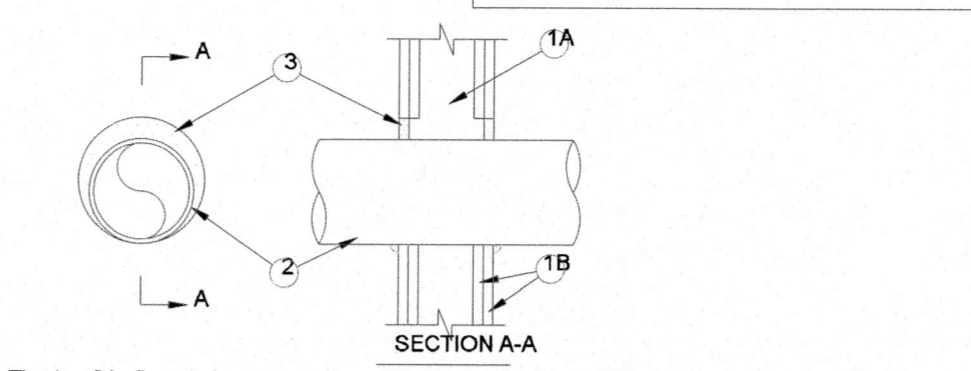
5. LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.

6. THE WATER TEST INFORMATION HAS BEEN PROVIDED BY CAROLINA FIRE PROTECTION DATED 06.16.2022 INDICATES THE FOLLOWING...

STATIC: 138 PSI
RESIDUAL: 92 PSI
FLOW: 776 GPM



ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 and 2 Hr (See Items 1 and 3)	F Rating - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating at 400 F - Less Than 1 CFM/sq ft

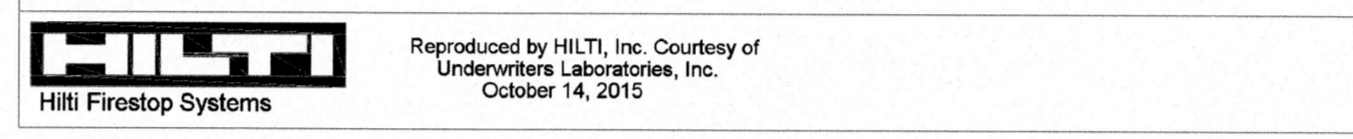


1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

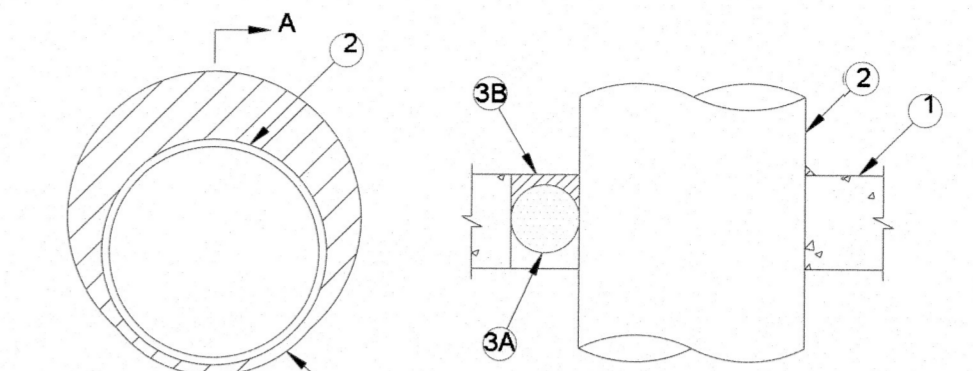
- Sluds - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
- Gypsum Board - 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
- Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
 - Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
- Fill, Void or Cavity Material - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating - 3 Hr
T Rating - 1/4 Hr	FT Rating - 1/4 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 3 Hr
L Rating at 400 F - 4 CFM/sq ft	FTH Rating - 1/4 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating at 400 F - 4 CFM/sq ft



1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 14 in. (356 mm).

2. Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 3-1/4 in. (83 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

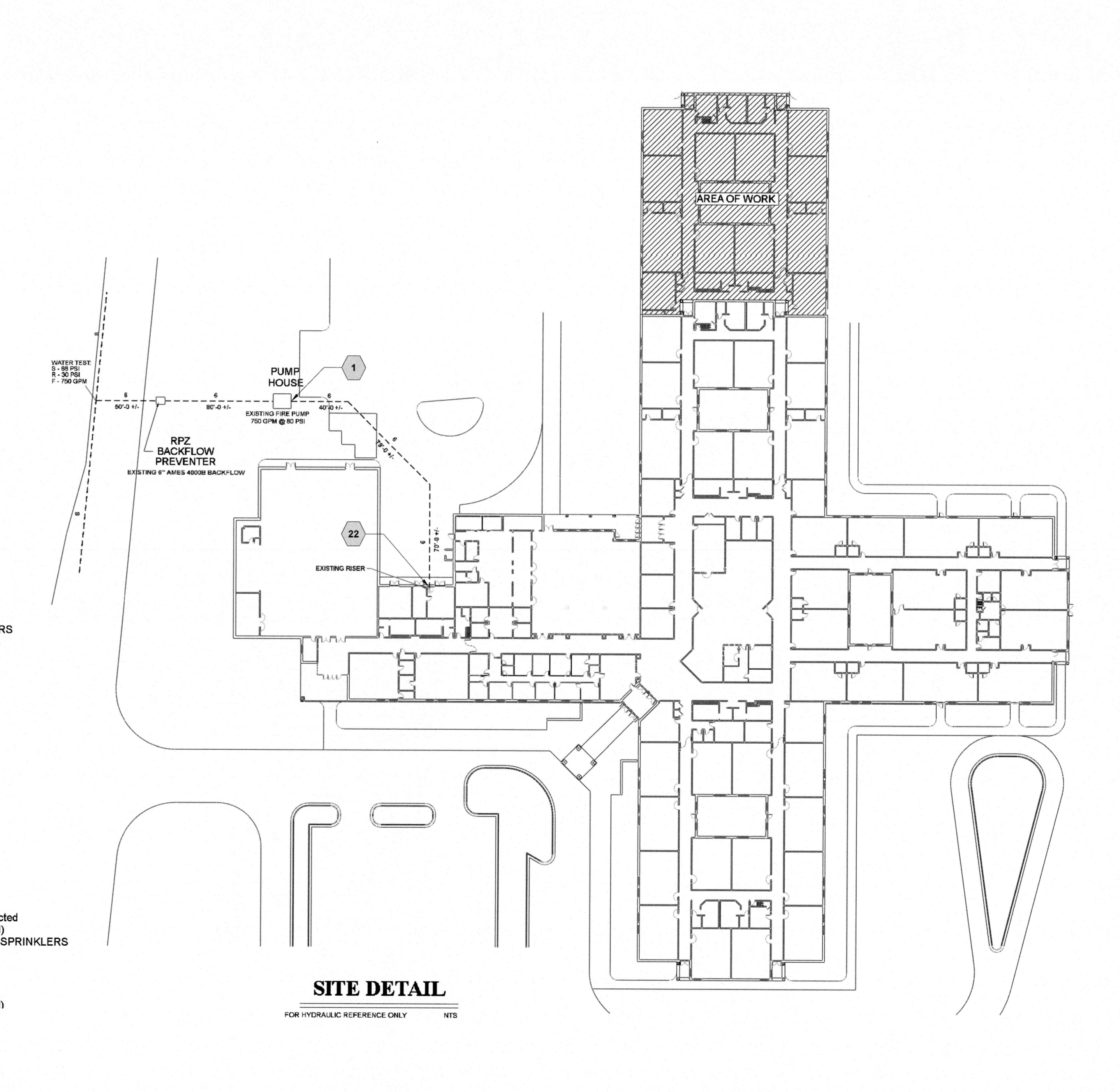
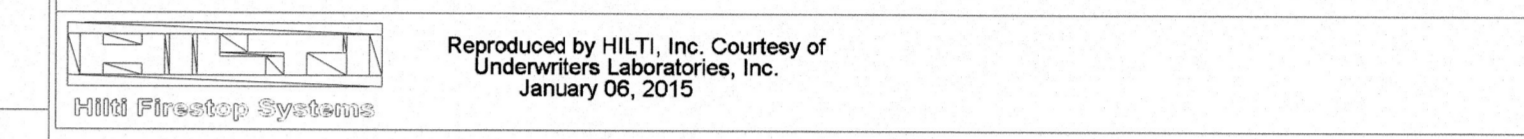
- Steel Pipe - Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- Conduit - Nom 4 in. (254 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
- Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper tubing.
- Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Firestop System - The firestop system shall consist of the following:

- Packing Material - Mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material. As an option to the above, backer rod and/or foamed plastic backer material may be used.
- Fill, Void or Cavity Material - Sealant - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.

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OVERHILLS ELEMENTARY
HARNETT CO SCHOOLS
2626 RAY ROAD
SPRING LAKE, NC 28390

J & D SPRINKLER CO. INC.
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PHONE: (919)553-2356 FAX: (919) 359-0622

SHEET TITLE:
NOTES AND DETAILS

This fire sprinkler planning and design drawing has been prepared by J&D Sprinkler Co., Inc. as a professional engineer under the General Statutes for J&D Sprinkler Co., Inc. and J&D Sprinkler Co., Inc. use pursuant to G.S. § 89C-25(b), and J&D Sprinkler Co., Inc. use pursuant to G.S. § 89C-25(b), and J&D Sprinkler Co., Inc. use pursuant to G.S. § 89C-25(b), and J&D Sprinkler Co., Inc. use pursuant to G.S. § 89C-25(b). Installation work or any other work on this drawing or any copy thereof is strictly prohibited.

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NC # 16289FS CERT # 71075
JASON GRAHAM
NC # 16289FS CERT # 121842
REVISION: NO. DATE

Date: 04.05.2023

Scale: 1/8" = 1'-0"

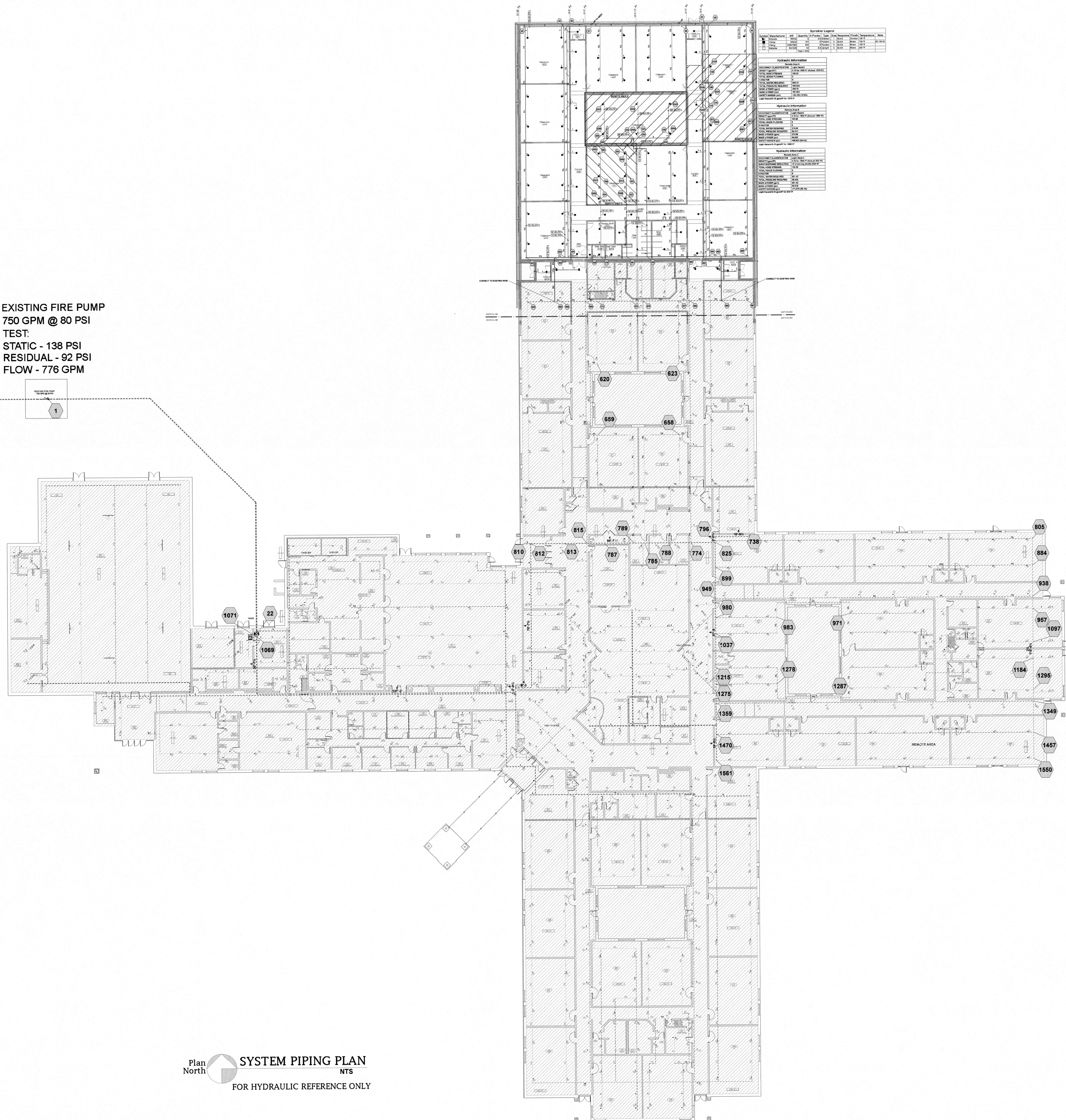
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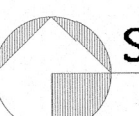
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Sheet Number: FP1 OF 5

EXISTING FIRE PUMP
750 GPM @ 80 PSI
TEST:
STATIC - 138 PSI
RESIDUAL - 92 PSI
FLOW - 776 GPM

EXISTING 6" AMES 4000B BACKFLOW
IN HOTBOX



Plan North  SYSTEM PIPING PLAN
NTS
FOR HYDRAULIC REFERENCE ONLY

OVERHILLS ELEMENTARY
HARNETT CO SCHOOLS

2626 RAY ROAD
SPRING LAKE, NC 28390

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SHEET
TITLE:
SYSTEM PIPING
PLAN

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NC # 16269FS CERT # 71075
NICET LEVEL III

JASON GRAHAM

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REVISION:
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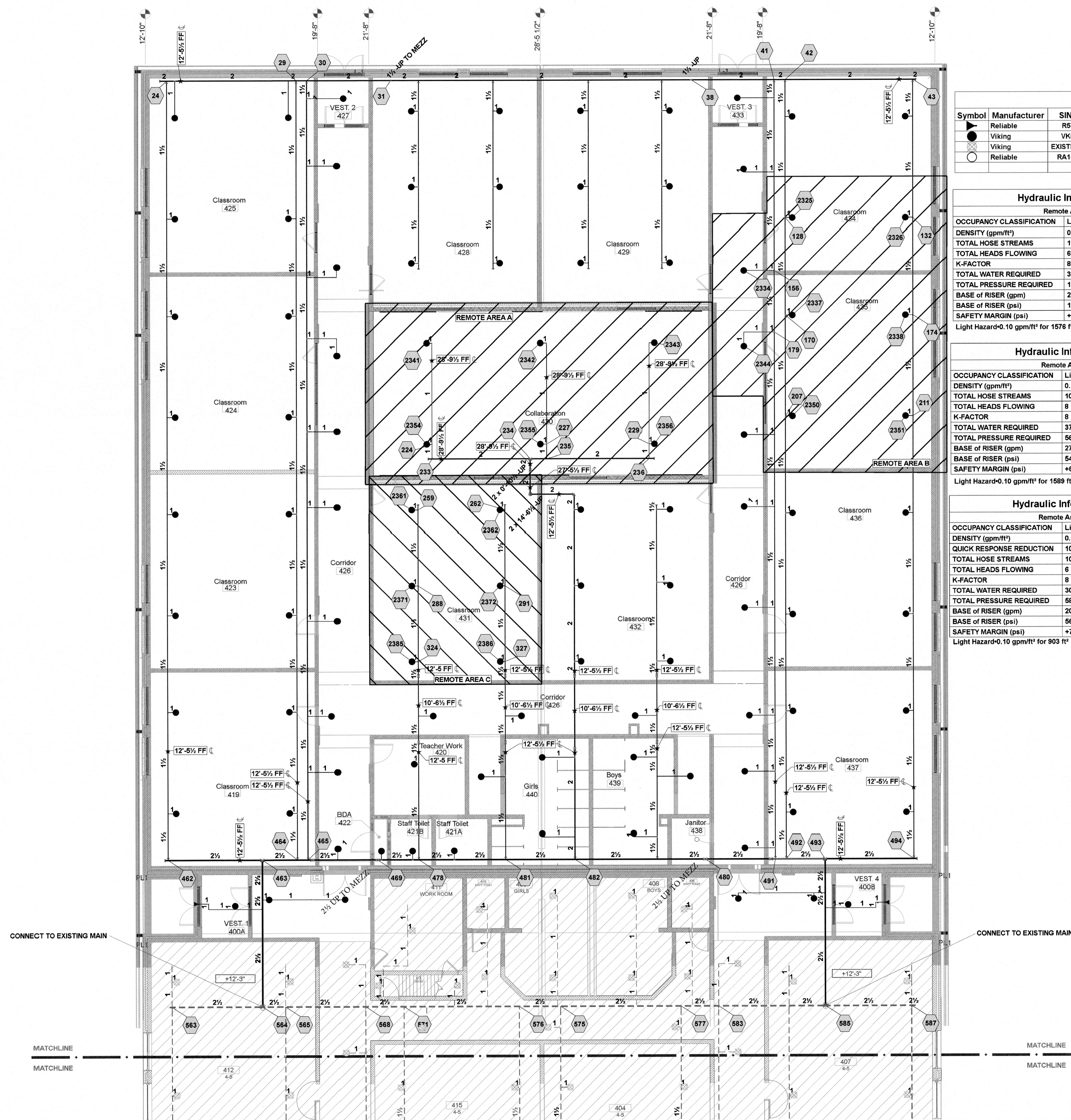
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FP2 OF 5



Sprinkler Legend										
Symbol	Manufacturer	SIN	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
●	Reliable	R5734	4	5.6	Sidewall	1	Quick	Chrome	155 °F	
●	Viking	VK634	101	8	Pendent	3/4	Quick	Brass	155 °F	EC 18x18
●	Viking	EXISTING	536	8	Pendent	3/4	Quick	Brass	155 °F	
○	Reliable	RA1425	34	5.6	Upright	1/2	Quick	Brass	200 °F	
			Total = 675							

Hydraulic Information	
Remote Area A	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500 ft² (Actual 1576 ft²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	6
K-FACTOR	8
TOTAL WATER REQUIRED	305.79
TOTAL PRESSURE REQUIRED	109.634
BASE of RISER (gpm)	205.79
BASE of RISER (psi)	107.902
SAFETY MARGIN (psi)	+20.152 (15.5%)
Light Hazard=0.10 gpm/ft² for 1576 ft²	

Hydraulic Information	
Remote Area B	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500 ft² (Actual 1589 ft²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	8
K-FACTOR	8
TOTAL WATER REQUIRED	374.59
TOTAL PRESSURE REQUIRED	66.241
BASE of RISER (gpm)	274.59
BASE of RISER (psi)	54.023
SAFETY MARGIN (psi)	+69.803 (55.4%)
Light Hazard=0.10 gpm/ft² for 1589 ft²	

Hydraulic Information	
Remote Area C	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500 ft² (Actual 903 ft²)
QUICK RESPONSE REDUCTION	10'-0" Ceiling (40.0%) 900 ft²
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	6
K-FACTOR	8
TOTAL WATER REQUIRED	301.42
TOTAL PRESSURE REQUIRED	68.323
BASE of RISER (gpm)	201.42
BASE of RISER (psi)	66.618
SAFETY MARGIN (psi)	+71.679 (55.1%)
Light Hazard=0.10 gpm/ft² for 903 ft²	

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PIPING PLAN

This fire sprinkler planning and design drawing has been prepared by J & D Sprinkler Co. as a licensed fire sprinkler contractor under Article 2 of Chapter 67 of the North Carolina State Fire Code (NCSFC) and shall be used in accordance with the NCSFC and the International Fire Code (IFC) and all applicable codes and regulations. J & D Sprinkler Co. must perform any and all installation work and other work performed in reliance on this drawing pursuant to G.S. § 55B-15(a)(2). Installation work or any other work performed by any other person or entity in reliance on this drawing or any copy thereof is strictly prohibited.

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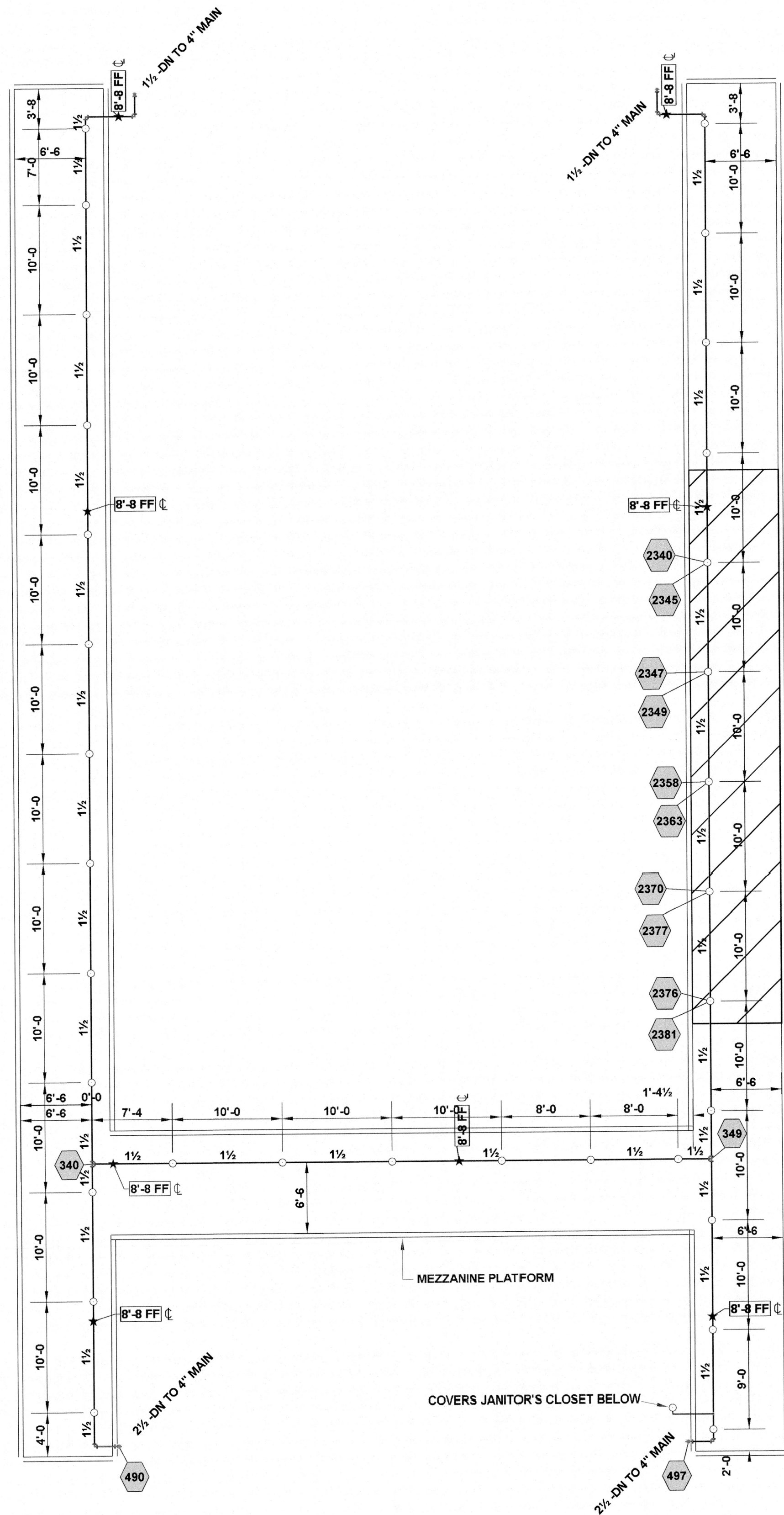
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Sheet Number

FP3 OF 5

Plan North
PIPING PLAN
1/8"=1'-0"



Sprinkler Legend										
Symbol	Manufacturer	SIN	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
●	Reliable	R5734	4	5.6	Sidewall	1	Quick	Chrome	155 °F	
●	Viking	VK634	101	8	Pendent	3/4	Quick	Brass	155 °F	EC 18x18
⊗	Viking	EXISTING	536	8	Pendent	3/4	Quick	Brass	155 °F	
○	Reliable	RA1425	34	5.6	Upright	1/2	Quick	Brass	200 °F	
			Total = 675							

Hydraulic Information	
Remote Area D	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft²)	0.15 for 1500 ft² (Actual 412 ft²)
TOTAL HOSE STREAMS	250.00
DRY CAPACITY	0.00 gal
TOTAL HEADS FLOWING	5
K-FACTOR	5.6
TOTAL WATER REQUIRED	348.13
TOTAL PRESSURE REQUIRED	28.459
BASE of RISER (gpm)	98.13
BASE of RISER (psi)	27.243
SAFETY MARGIN (psi)	+99.100 (77.7%)
Ordinary Group I=0.15 gpm/ft² for 412 ft²	

Plan North **MEZZANINE PIPING AND CEILING PLAN** 1/8"=1'-0"

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SHEET TITLE:
MEZZANINE PIPING AND CEILING PLAN

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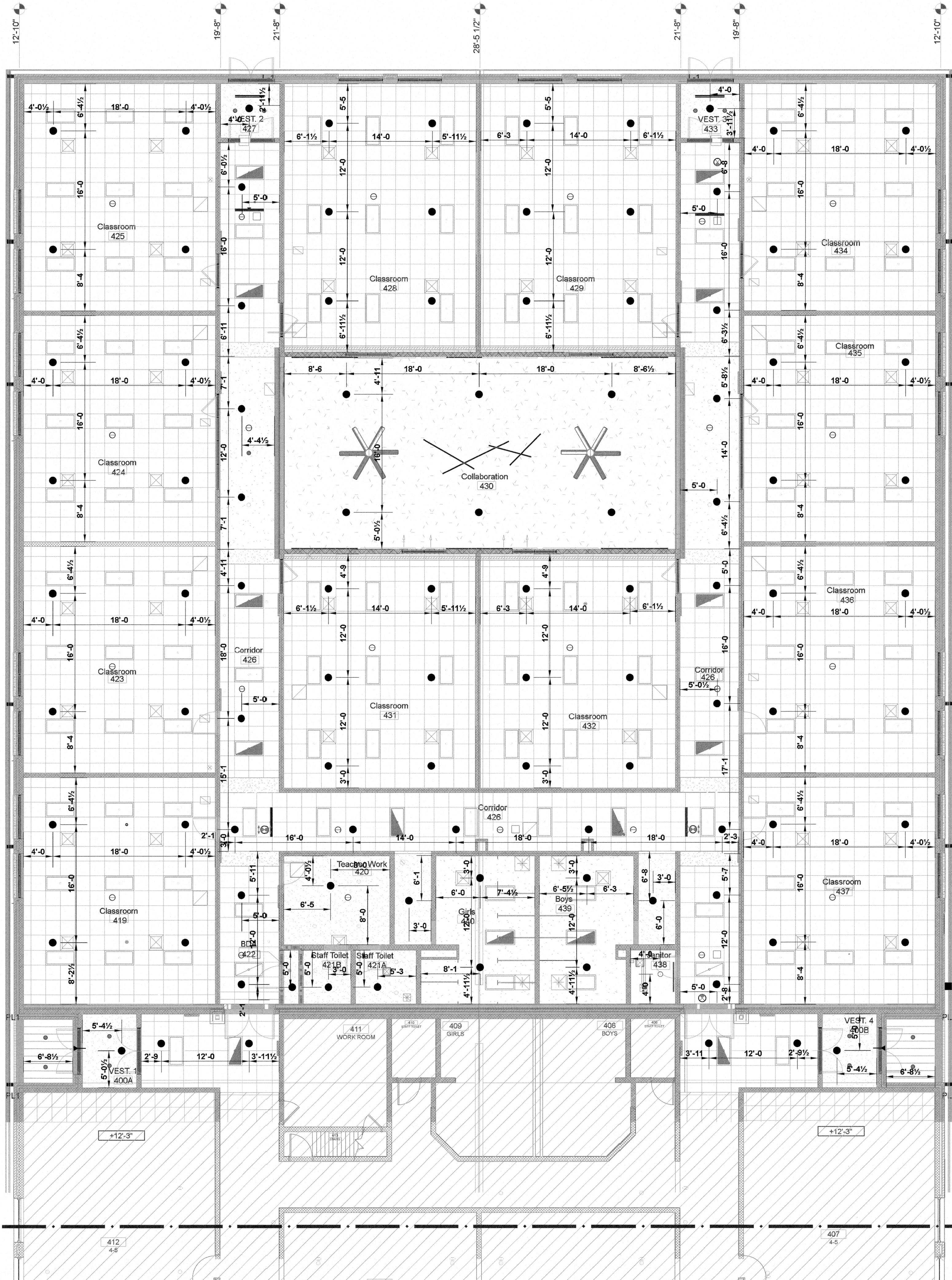
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1/8"=1'-0"

Job Number:
B22243

Drawn By:
BKB

Sheet Number
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Sprinkler Legend										
Symbol	Manufacturer	SIN	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
●	Reliable	R5734	4	5.6	Sidewall	1	Quick	Chrome	155 °F	
○	Viking	VK634	101	8	Pendent	3/4	Quick	Brass	155 °F	EC 18x18
⊗	Viking	EXISTING	536	8	Pendent	3/4	Quick	Brass	155 °F	
○	Reliable	RA1425	34	5.6	Upright	1/2	Quick	Brass	200 °F	
			Total = 675							

OVERHILLS ELEMENTARY
HARNETT CO SCHOOLS
2626 RAY ROAD
SPRING LAKE, NC 28390

J & D SPRINKLER CO. INC.
315 W. MAIN ST., CLAYTON, NC 27520
PHONE: (919)553-2356 FAX: (919) 359-0622

SHEET TITLE:

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DANA GRAHAM

NC # 16269FS CERT # 71075
NICET LEVEL III

JASON GRAHAM

NC # 16269FS CERT # 121842
NICET LEVEL III

REVISION:
NO. DATE

Date:
04.05.2023

Scale:
1/8"=1'-0"
10'

Job Number:
B22243

Drawn By:
BKB

Sheet Number
FP5 OF 5