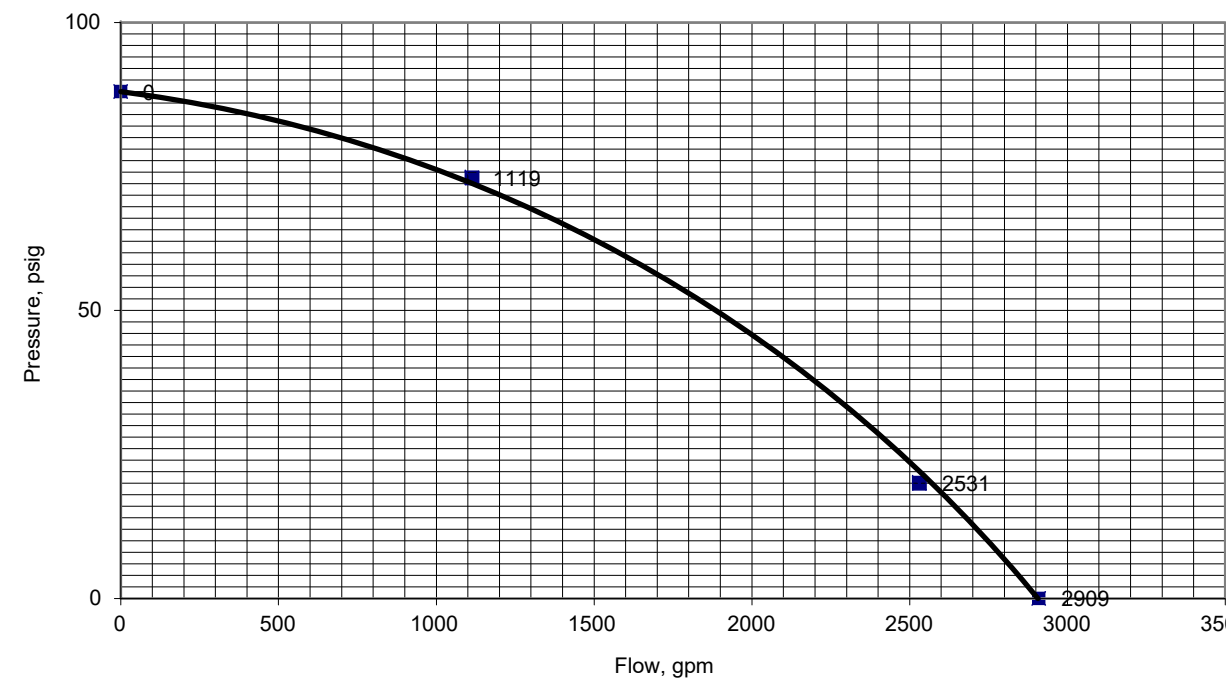


WATER FLOW TEST REPORT			
HYDRANT # & LOCATION	Existing Hydrants US-401	DATE:	7/17/2025
TEST BY:	Debby Autry	Day or Week:	Thursday
WATER SUPPLIED BY:	Harnett County	TIME OF DAY:	10:00
PURPOSE OF TEST:	Existing Water Supply	MIN. OF FLOW:	5
FLOW HYDRANT(S)			
SIZE OPENING:	A1 2.5	A2	A3
COEFFICIENT:	0.9		
PITOT READING:	44		
GPM:	1119	0	0
TOTAL FLOW DURING TEST:	1119 GPM		
STATIC READING:	88 PSI	RESIDUAL:	73 PSI
RESULTS:	AT 20 PSI RESIDUAL 2531 GPM	AT 0 PSI	2909 GPM
ESTIMATED CONSUMPTION:	5695 GAL		
REMARKS:	Flow Hydrant at 3483 US 401, Gauge Hydrant at Intersection US 401 and Joel Johnson Road Witnessed By: James Lowery (Harnett County Water) Jake Monson (Phoenix Fire Protection)		



GENERAL NOTES

- THE NEW FIRE SPRINKLER SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH NFPA 13, 2016 EDITION.
- CONTRACT BEGINS AT 1'-0" ABOVE FINISHED FLOOR.
- UNDERGROUND PIPING IS BY OTHERS.
- SITE PLAN PROVIDED FOR HYDRAULIC CALCULATIONS PURPOSES ONLY.

SITE PLAN
SCALE: 1" = 40'-0"

This is a life safety system and has been designed and/or hydraulically calculated as shown. These drawings have been submitted to the authority having jurisdiction for approval, code compliance, and/or permitting. Any deviations from design during installation due to conflicts after any coordination, submittal, or approval may require additional material, engineering costs, and re-submittal fees. Phoenix Fire Protection, Inc. is not liable for any additional costs due to changes required or requested from other trades or the General Contractor after approval and/or permitting has been issued. An approved change order will be required before any changes are made that deviate from the originally approved plans.

PLAN NORTH

N.C. LICENSE NO. PFS-13628

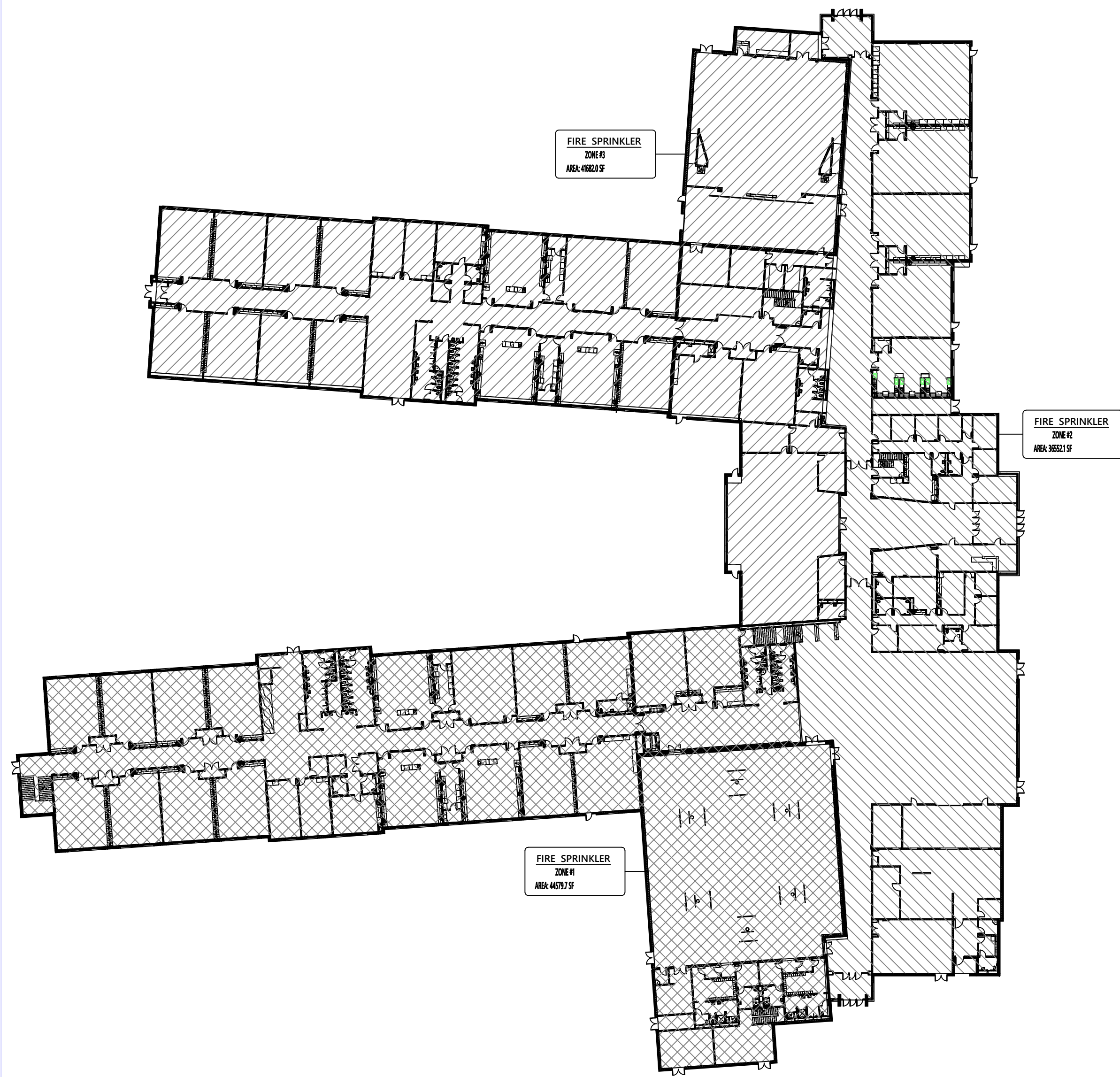
This fire sprinkler planning and design drawing has been prepared by Phoenix Fire Protection, Inc. as a licensed fire sprinkler contractor under Article 2 of Chapter 87 of the General Statutes for Phoenix Fire Protection, Inc.'s exclusive use pursuant to G.S. §89C-25(8), and Phoenix Fire Protection, Inc. 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. © 2025 Phoenix Fire Protection, Inc.

SHEET INDEX	APPROVING AGENCIES	ADDITIONAL NOTES	SEAL
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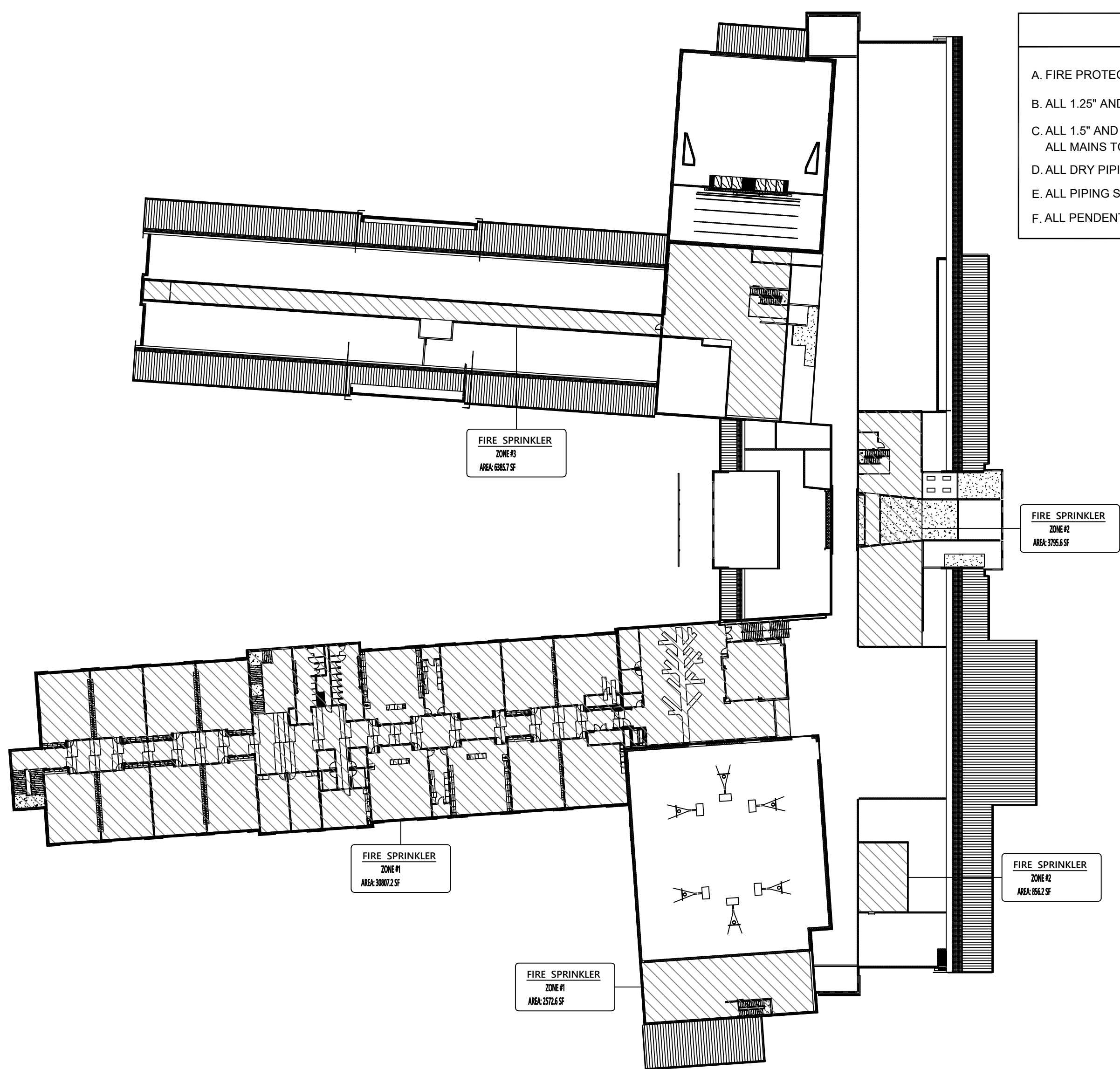
REVISIONS	BY	DATE	DESCRIPTION
1	KM	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW

SPRINKLER SUMMARY	TYPE	FINISH	TEMP	ORIF	"C"	NPT	MANUF	SIN#	ESCLUTCHECK	QTY
⊙	PENDENT	WHITE	175	12"	5.6	12"	VICTAULIC	V3802	CONCEALED	0
⊙	PENDENT	WHITE	175	3/4"	11.2	3/4"	VICTAULIC	V1108	CONCEALED	0
⊙	UPRIGHT	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2704	N/A	0
⊙	UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2704	N/A	0
⊙	UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	V3402	N/A	0
⊙	SIDEWALL	WHITE	200	1/2"	5.6	1/2"	VICTAULIC	V2710	FLUSH	0
⊙	DRY PENDENT	CHROME	200	1/2"	5.6	1/2"	VICTAULIC	V3814	EXTENDED	0
⊙	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4355	STANDARD	0
TOTAL SPRINKLERS THIS PROJECT										1292
TOTAL SPRINKLERS THIS DRAWING										0

JOB #:	C05-25	DATE:	07-25-2025	SCALE:	As Noted	DRAWN BY:	KM	CHK BY:	LDT
PHOENIX FIRE PROTECTION, INC. P.O. BOX 2851 2863 LEE AVENUE SANFORD, N.C. 27332 PHONE: (919) 774-3042 FAX: (919) 774-1492 Site Plan - Cover Sheet Flatwoods Middle School 3544 US 401 South Lillington, North Carolina Larry Taylor LARRY DEAN TAYLOR NCKET LEVEL V, CERT. NO. 11219									SHEET NO: FP-1 OF 13



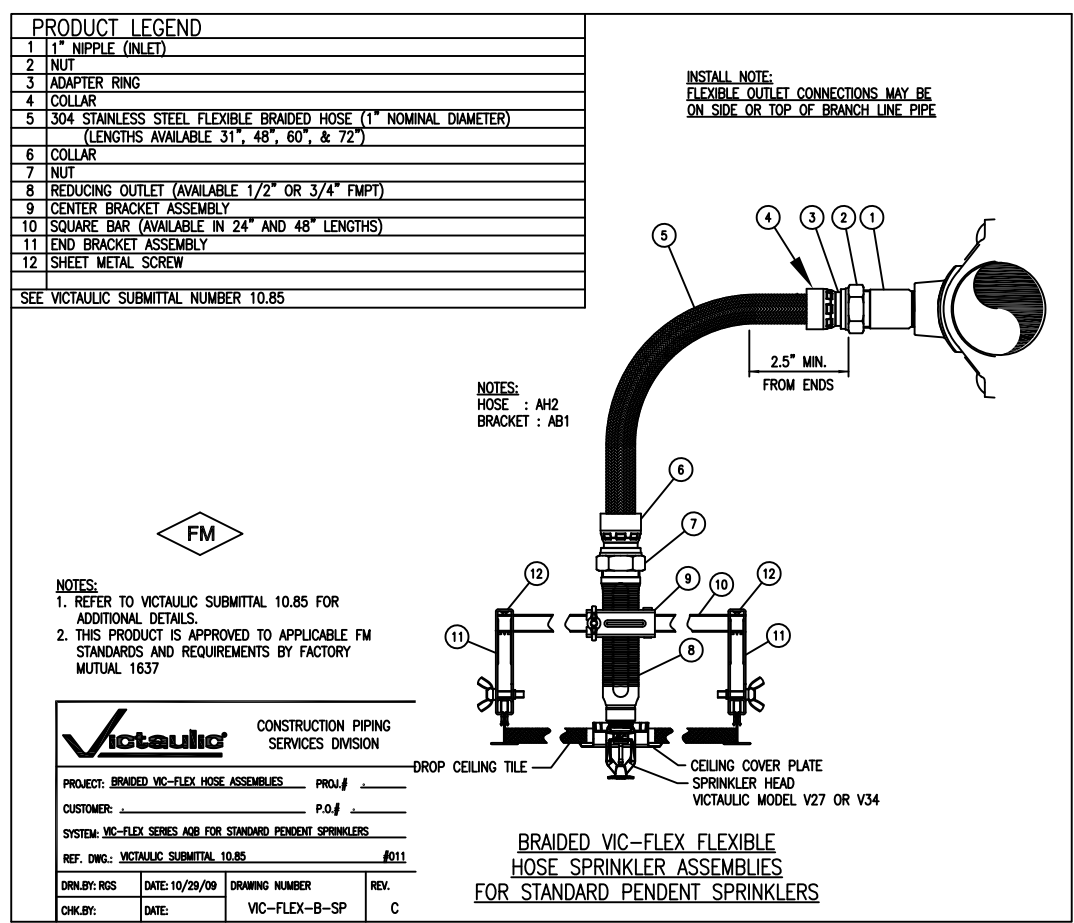
FIRST FLOOR ZONE PLAN
NO SCALE



SECOND FLOOR ZONE PLAN
NO SCALE

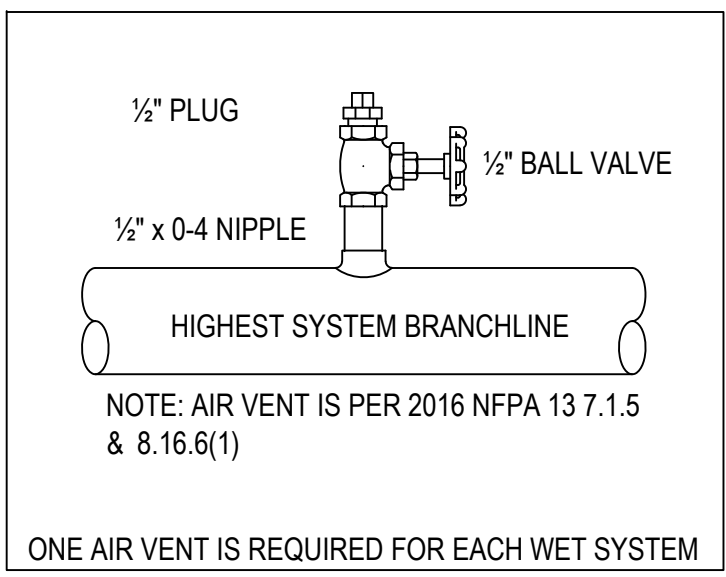
GENERAL NOTES

- A. FIRE PROTECTION SCOPE BEGINS AT 1'-0" AFF. UNDERGROUND IS BY OTHERS.
B. ALL 1/2" AND SMALLER PIPING TO BE BLACK, SCHEDULE 40 THREADED.
C. ALL 1/2" AND LARGER BRANCHLINES TO BE BLACK, SCHEDULE 10 GROOVED OR BLACK, SCHEDULE 40 THREADED.
ALL MAINS TO BE BLACK, SCHEDULE 10 GROOVED.
D. ALL DRY PIPING, BALL DRIP DISCHARGES, AND DRAIN/TEST DISCHARGES TO BE HOT-DIPPED GALVANIZED.
E. ALL PIPING SHALL BE MANUFACTURED IN THE US.
F. ALL PENDENT SPRINKLERS IN CEILING GRID TO BE ON 36" VICTAULIC AH2 FLEX DROPS.



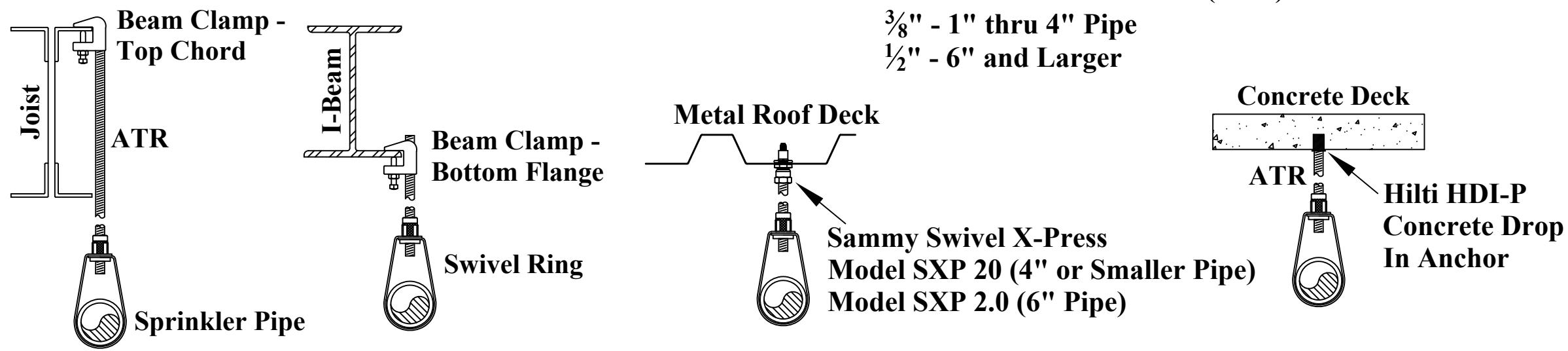
PIPE HANGER NOTES

- Pipe hangers shall be installed as required by NFPA 13 for supporting and bracing sprinkler piping.
- Hanging, bracing, and restraint of fire sprinkler piping shall be in accordance with chapter 9.3 of NFPA 13.
- No other piping or devices are to be attached to the sprinkler pipe hanger system unless the hanger has been specifically designed for the additional loading.
- This contract, (Phoenix Fire Protection), does not include any material or devices to improve the structural strength of the building to enable it to carry the load of the fire protection system. Any additional load bracing or structural strengthening is to be designed by the structural engineer and to be provided and installed by others.
- The unsupported horizontal length between the end sprinkler and the last hanger on a line shall not be greater than the following:
1" pipe - 36", 1 1/4" pipe - 48", 1 1/2" or larger pipe - 60"
- The cumulative horizontal length of an unsupported armover to a sprinkler, sprinkler drop, or sprig up shall not exceed 24" for steel pipe.



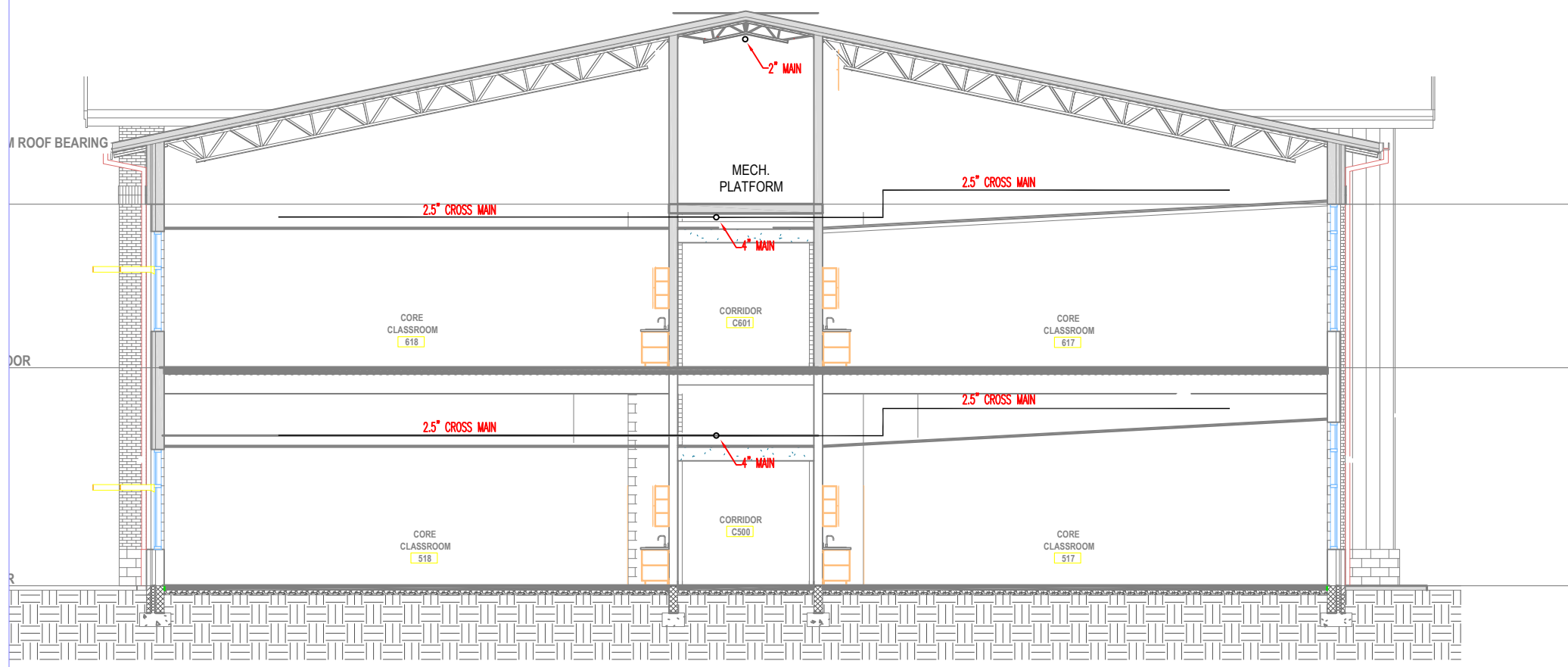
TYPICAL AIR VENT DETAIL
NO SCALE

TRAPEZE - 5'-6" SPAN TABLE 9.1.1.7.1 (a) 2013 Ed.		MINIMUM SIZE TRAPEZE SUPPORT			
PIPE SIZE	MODULUS	UNISTRUT	ANGLE	PIPE (Sch 10)	PIPE (Sch 40)
1" (Sch 40)	.30	1 5/8" x 2 7/16" x 12 ga	2" x 2" x 5/16"	2"	1 1/2"
1-1/4" (Sch 40)	.31	1 5/8" x 2 7/16" x 12 ga	2" x 2" x 3/8"	2"	1 1/2"
1-1/2" (Sch 40)	.33	1 5/8" x 2 7/16" x 12 ga	2" x 2" x 3/8"	2"	1 1/2"
2" (Sch 40)	.36	1 5/8" x 2 7/16" x 12 ga	2 1/2" x 2 1/2" x 1/4"	2"	2"
2-1/2" (Sch 10)	.37	1 5/8" x 2 7/16" x 12 ga	2 1/2" x 2 1/2" x 1/4"	2"	2"
4" (Sch 10)	.47	1 5/8" x 3 1/4" x 12 ga	2 1/2" x 2 1/2" x 5/16"	2 1/2"	2"
6" (Sch 10)	.66	1 5/8" x 3 1/4" x 12 ga	3" x 3" x 5/16"	2 1/2"	2 1/2"

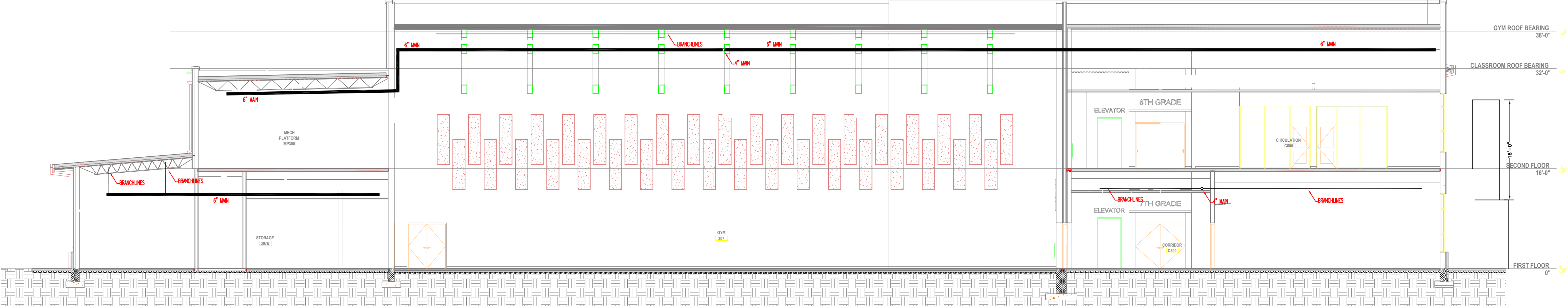
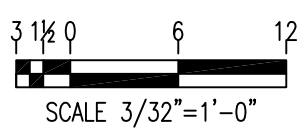


PIPE HANGER DETAILS
NO SCALE

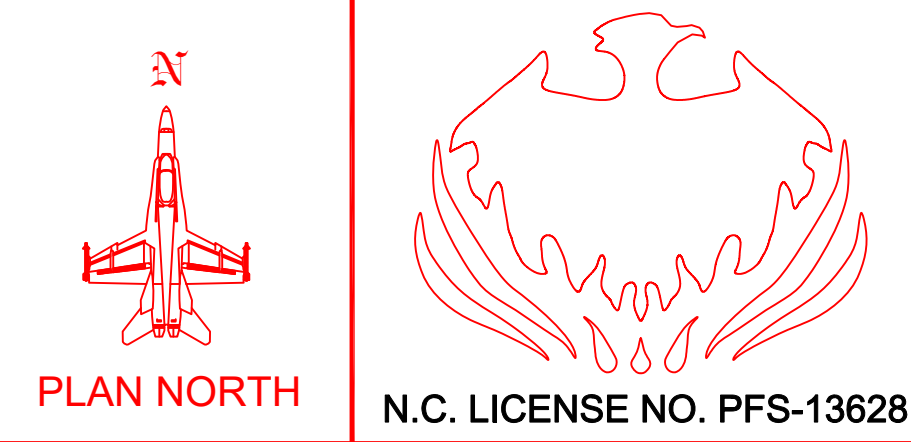
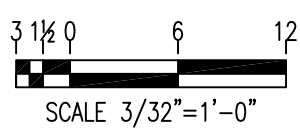
Maximum Allowable Hanger Distances Per NFPA 13 TABLE 9.2.2.1(a)	
PIPE SIZE (ft.in.)	STEEL PIPE LENGTH
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
4"	15'-0"
6"	15'-0"



AREA 500 - SECTION
SCALE: 3/32" = 1'-0"



AREA 300 GYM - SECTION
SCALE: 3/32" = 1'-0"



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FP-12 - Area 500/600 - Second Floor Piping Plan
FP-13 - Area 500/600 - Mech Platform Piping Plan

APPROVING AGENCIES
APPROVING AUTHORITY: HARNETT COUNTY
ADDRESS: P.O. BOX 65
CITY & STATE: LILLINGTON, NC 27546
PHONE NO.: (910) 893-7525
FAX NO.: (910) 893-2793
WEBSITE: www.harnett.org

ADDITIONAL NOTES

SEAL

REVISIONS			
#	DATE	DESCRIPTION	BY
1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM

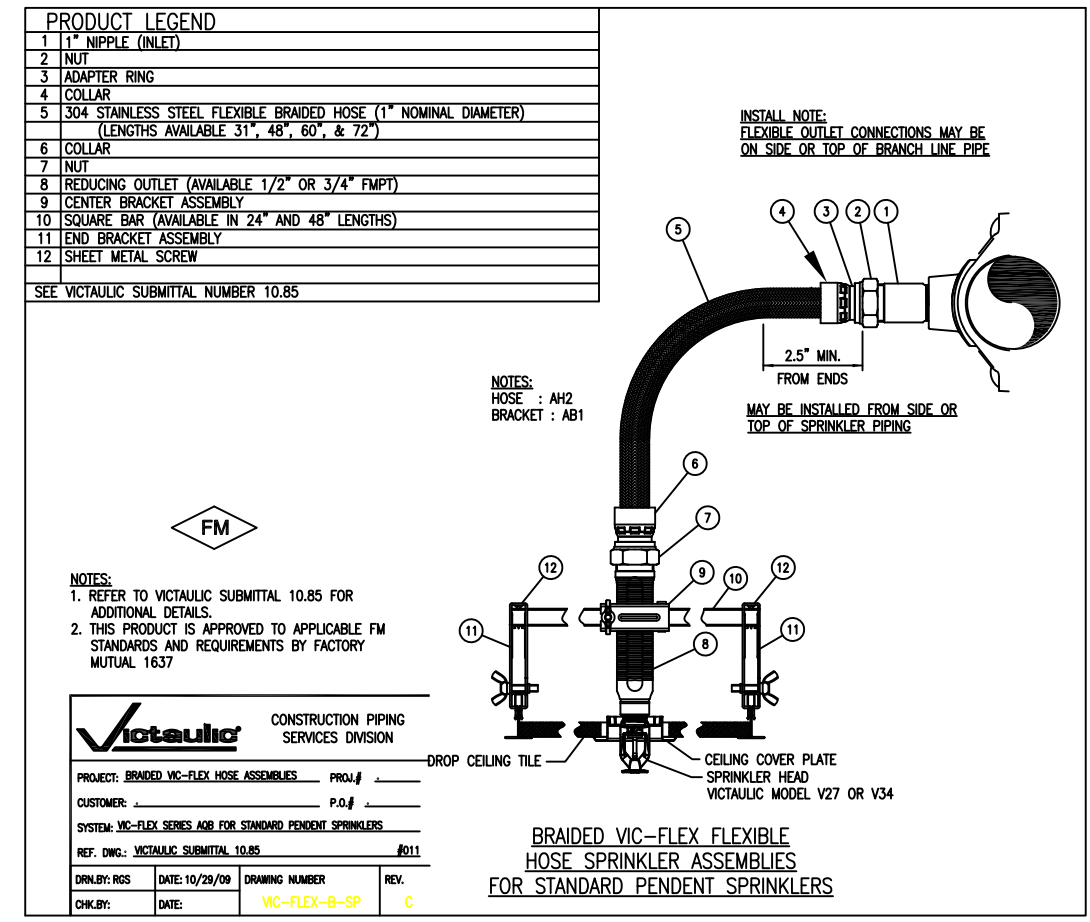
SPRINKLER SUMMARY										
SYM	TYPE	FINISH	TEMP	ORIF.	"K"	NPT	MANUF.	SINN	ESCUTCHEON	QTY.
⊙	PENDENT	WHITE	175	1/2"	5.6	1/2"	VICTAULIC	V3802	CONCEALED	0
⊙	PENDENT	WHITE	175	3/4"	11.2	3/4"	VICTAULIC	V1100	CONCEALED	0
⊙	UPRIGHT	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2754	N/A	0
⊙	UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2754	N/A	0
⊙	UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	V2402	N/A	0
⊙	SIDEWALL	WHITE	200	1/2"	5.6	1/2"	VICTAULIC	V2710	FLUSH	0
⊙	DRY PENDENT	CHROME	200	1/2"	5.6	1/2"	VICTAULIC	V3614	EXTENDED	0
⊙	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4355	STANDARD	0
TOTAL SPRINKLERS THIS PROJECT										120
TOTAL SPRINKLERS THIS DRAWING										9

JOB #:	C05-25
DATE:	07-25-2025
SCALE:	As Noted
DRAWN BY:	KM
CHK. BY:	LDT

PHOENIX FIRE PROTECTION, INC.	
P.O. BOX 2881	2863 LEE AVENUE
SANFORD, N.C. 27332	
PHONE: (919) 774-3042	FAX: (919) 774-1492
Details	
Flatwoods Middle School	
3544 US 401 South	
Lillington, North Carolina	
Larry Dean Taylor	11/11/2025
LARRY DEAN TAYLOR	DATE
NCET LEVEL IV, CERT. NO. 112126	
SHEET NO. FP-2	OF 13



- GENERAL NOTES**
- A. FIRE PROTECTION SCOPE BEGINS AT 1'-0" AFF. UNDERGROUND IS BY OTHERS.
- B. ALL 1.25" AND SMALLER PIPING TO BE BLACK, SCHEDULE 40 THREADED.
- C. ALL 1.5" AND LARGER BRANCHLINES TO BE BLACK, SCHEDULE 10 GROOVED OR BLACK, SCHEDULE 40 THREADED. ALL MAINS TO BE BLACK, SCHEDULE 10 GROOVED.
- D. ALL DRY PIPING, BALL DRIP DISCHARGES, AND DRAIN/TEST DISCHARGES TO BE HOT-DIPPED GALVANIZED.
- E. ALL PIPING SHALL BE MANUFACTURED IN THE US.
- F. ALL PENDENT SPRINKLERS IN CEILING GRID TO BE ON 36" VICTAULIC AH2 FLEX DROPS.



Beam Clamp - Top Chord
ATR
Sprinkler Pipe

Beam Clamp - Bottom Flange
Swivel Ring

Metal Roof Deck
Sammy Swivel X-Press
Model SXP 20 (4" or Smaller Pipe)
Model SXP 2.0 (6" Pipe)

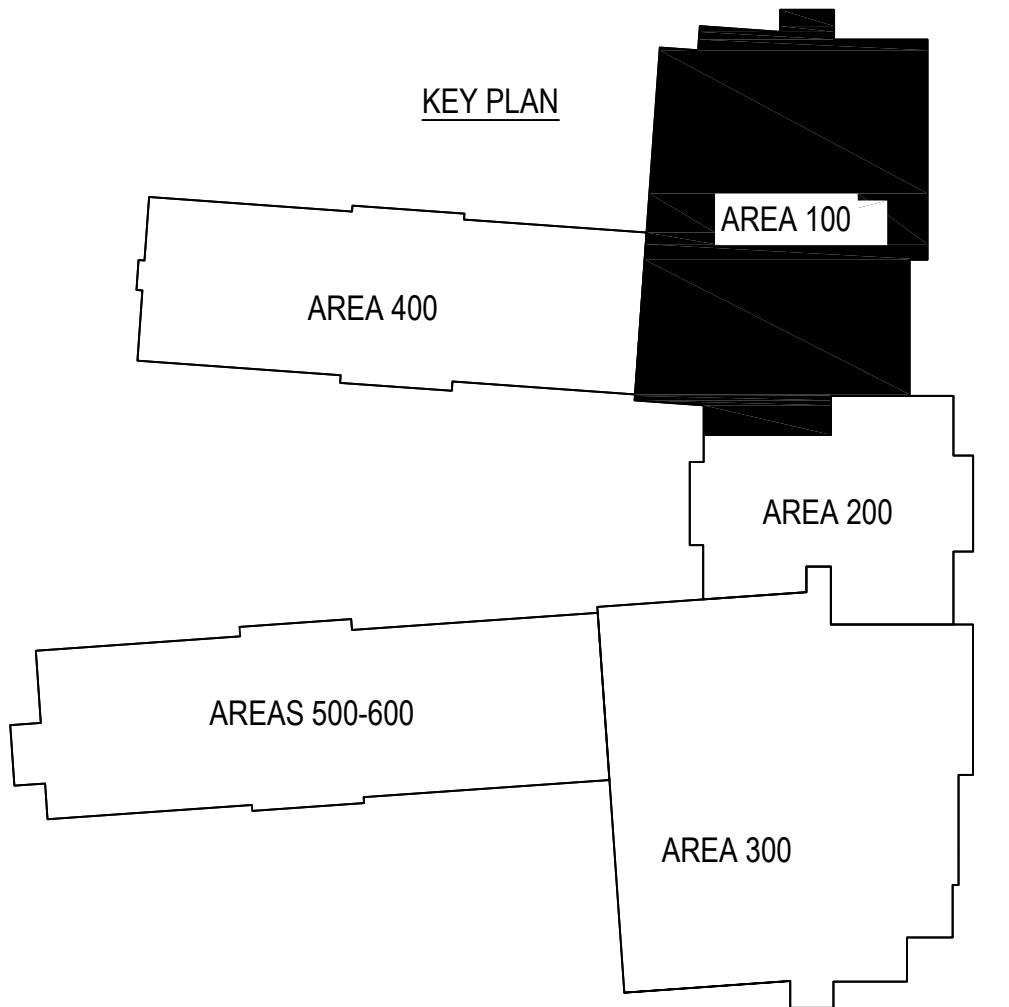
Concrete Deck
ATR
Hilti HDI-P
Concrete Drop
In Anchor

Maximum Allowable Hanger Distances
Per NFPA 13 TABLE 9.2.2.1(a)

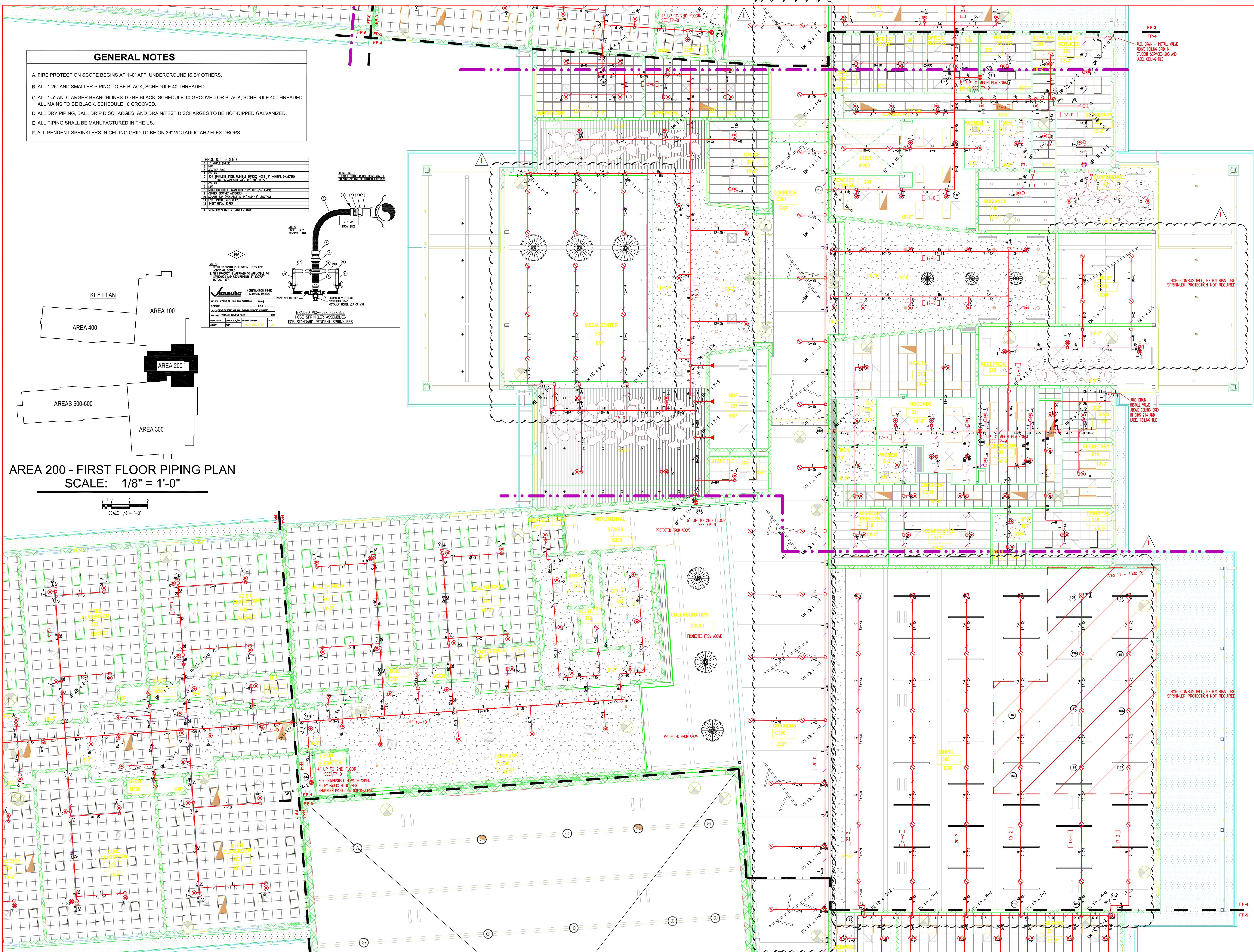
PIPE SIZE (ft.in.)	STEEL PIPE LENGTH
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
4"	15'-0"
6"	15'-0"

All Thread Rod Diameter (ATR)
3/8" - 1" thru 4" Pipe
1/2" - 6" and Larger

PIPE HANGER DETAILS
NO SCALE



AREA 100 - FIRST FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"



Beam Clamp - Top Chord

ATR

Sprinkler Pipe

Beam Clamp - Bottom Flange

Swivel Ring

Metal Roof Deck

Sammy Swivel X-Press
Model SXP 20 (4" or Smaller Pipe)
Model SXP 2.0 (6" Pipe)

Concrete Deck

ATR

Hilti HDI-P
Concrete Drop In Anchor

Maximum Allowable Hanger Distances Per NFPA 13 TABLE 9.2.2.1(a)	
PIPE SIZE (ft.in.)	STEEL PIPE LENGTH
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1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
4"	15'-0"
6"	15'-0"

All Thread Rod Diameter (ATR)
3/8" - 1" thru 4" Pipe
1/2" - 6" and Larger

PIPE HANGER DETAILS
NO SCALE

Hydraulically Calculated System

This system as shown on: PHOENIX FIRE PROTECTION

company print no. FP-4 dated 07-25-2025

for: FLATWOODS MIDDLE SCHOOL

at: 300 DINING contract no. C05-25

is designed to discharge a rate of: 0.10 gpm

(L/min) per sq ft (m2) of floor area over the maximum area of:

1500 sq ft (m2) when supplied

with a water rate of: 313 gpm (L/min)

at: 36 psi (bars) at the base of the riser

Hose stream allowance of: 100 gpm (L/min)

is included in the above.

Occupancy classification: LIGHT

Commodity classification: N/A

Maximum storage height: N/A

Installed by: PHOENIX FIRE PROTECTION

FLATWOODS MIDDLE SCHOOL AREA 11 WORK
CALCULATION PER 2013 NFPA 13 11.2.3.4.2
36 FT RISER (45% SAFETY MARGIN)

PLAN NORTH

N.C. LICENSE NO. PFS-13628

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FP-13 - Area 500/600 - Mech Platform Piping Plan

APPROVING AGENCIES

APPROVING AUTHORITY: HARNETT COUNTY
ADDRESS: P.O. BOX 65
CITY & STATE: LILLINGTON, NC 27546
PHONE NO.: (910) 893-7525
FAX NO.: (910) 893-2793
WEBSITE: www.harnett.org

ADDITIONAL NOTES

SEAL

REVISIONS

#	DATE	DESCRIPTION	BY	CHK
1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM	

SPRINKLER SUMMARY

SYN	TYPE	FINISH	TEMP	ORF	NC	NP	MANUF.	SNM	ESCU/CHGN	QTY.
1	PENDENT	WHITE	175	12"	5.6	12"	VICTAULIC	V3602	CONCEALED	79
2	PENDENT	WHITE	175	3/4"	11.2	3/4"	VICTAULIC	V2704	CONCEALED	31
3	UPRIGHT (ON SPRIG)	BRASS	200	12"	5.6	12"	VICTAULIC	V2704	N/A	79
4	UPRIGHT (ON SPRIG)	BRASS	200	12"	5.6	12"	VICTAULIC	V2704	N/A	0
5	UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	V3602	N/A	0
6	BIENWALL	WHITE	200	12"	5.6	12"	VICTAULIC	V2710	FLUSH	3
7	DRY PENDENT	CHROME	200	12"	5.6	12"	VICTAULIC	V3614	EXTENDED	0
8	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYGO	TY4325	STANDARD	0

TOTAL SPRINKLERS THIS PROJECT: 130

TOTAL SPRINKLERS THIS DRAWING: 130

JOB #:

COS-25

DATE:

07-25-2025

SCALE:

As Noted

DRAWN BY:

KM

CHK. BY: LDT

PHOENIX FIRE PROTECTION, INC.

P.O. BOX 2881
2863 LEE AVENUE
SANFORD, N.C. 27332

PHONE: (919) 774-3042 FAX: (919) 774-1492

Area 200 - First Floor Piping Plan

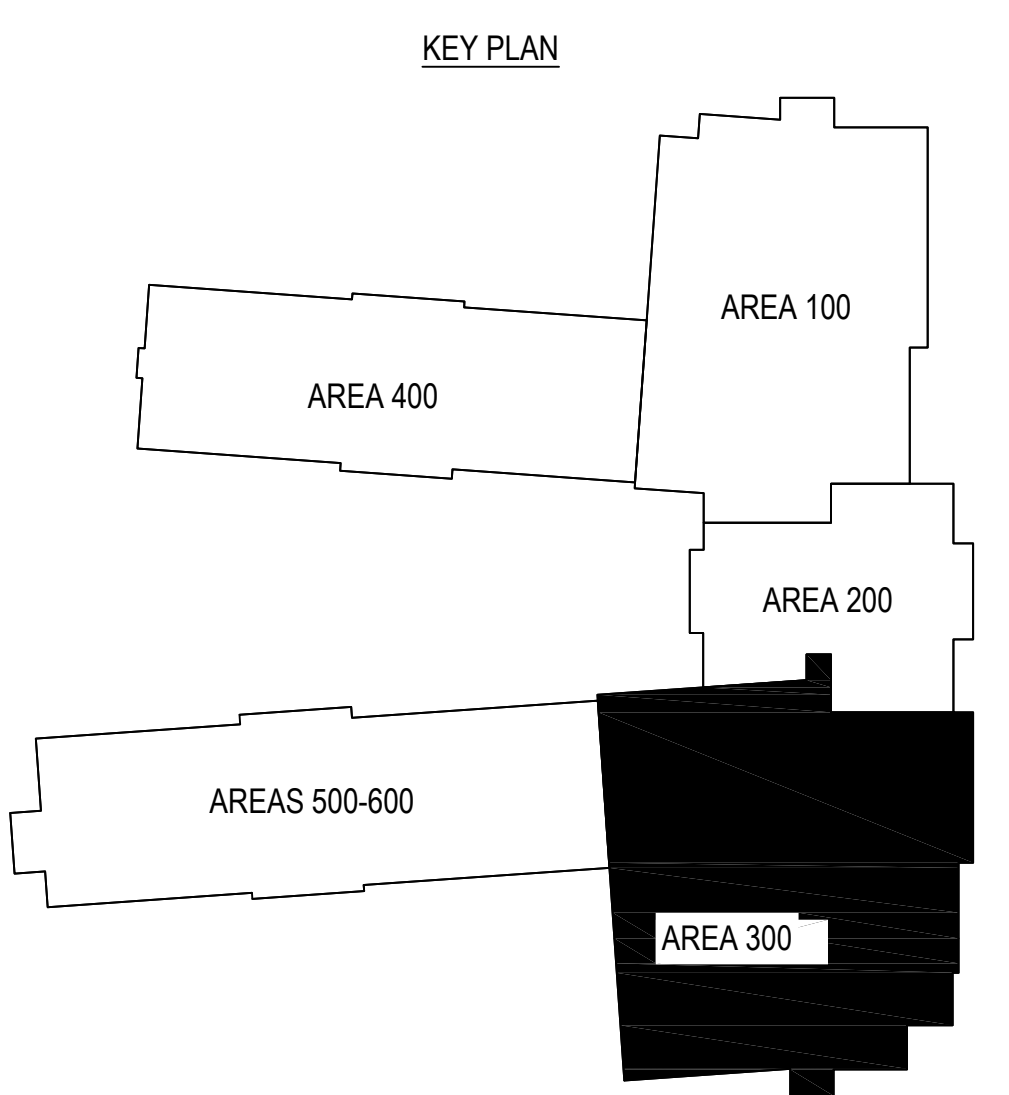
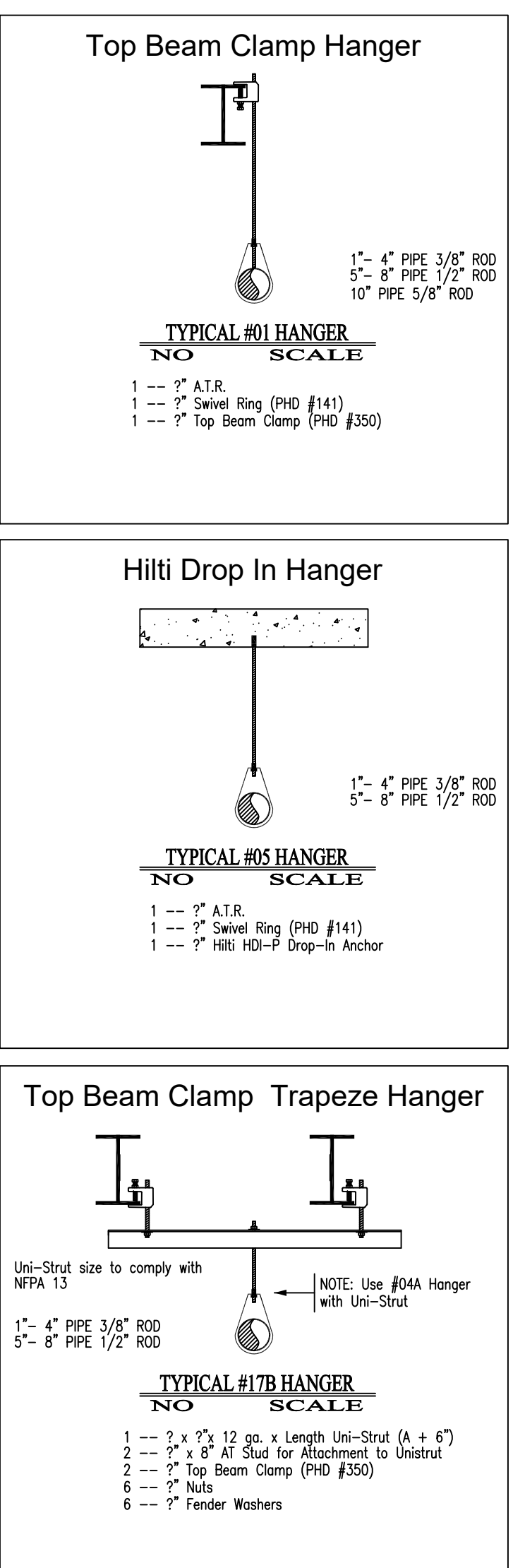
Flatwoods Middle School

3544 US 401 South
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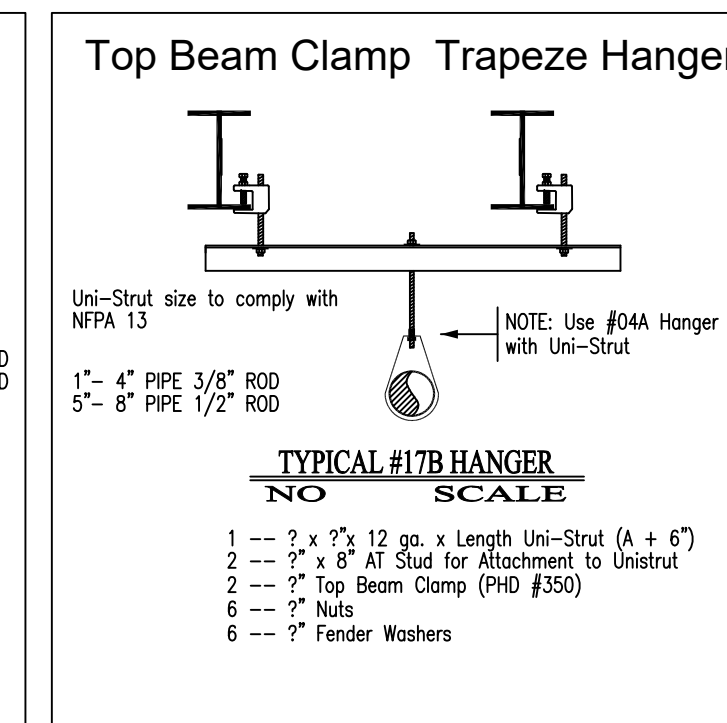
Larry Dean Taylor 11/11/2025 SHEET NO. FP-4 OF 13

LARRY DEAN TAYLOR 11/11/2025 DATE

NICET LEVEL IV, CERT. NO. 112128



	<p>This fire sprinkler planning and design drawing has been prepared by Phoenix Fire Protection, Inc. as a licensed fire sprinkler contractor under Article 2 of Chapter 87 of the General Statutes for Phoenix Fire Protection, Inc.'s exclusive use pursuant to G.S. §89C-25(8), and Phoenix Fire Protection, Inc. must perform any 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. © 2025 Phoenix Fire Protection, Inc.</p>	<p>SHEET INDEX</p> <p>FP-1 - Site Plan / Cover Sheet FP-2 - Details FP-3 - Area 100 - First Floor Piping Plan FP-4 - Area 200 - First Floor Piping Plan FP-5 - Area 300 - First Floor Piping Plan FP-6 - Area 400 - First Floor Piping Plan FP-7 - Area 500 - First Floor Piping Plan FP-8 - Area 100 - Second Floor Piping Plan FP-9 - Area 200 - Second Floor Piping Plan FP-10 - Area 300 - Second Floor Piping Plan FP-11 - Area 400 - Second Floor Piping Plan FP-12 - Area 500/600 - Second Floor Piping Plan FP-13 - Area 500/600 - Mech Platform Piping Plan</p>	<p>APPROVING AGENCIES</p> <p>APPROVING AUTHORITY: HARNETT COUNTY ADDRESS: P.O. BOX 65 CITY & STATE: LILLINGTON, NC 27456 PHONE NO.: (910) 893-7525 FAX NO.: (910) 893-2793 WEBSITE: www.harnett.org</p>			<p>REVISIONS</p> <table><thead><tr><th>#</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr></thead><tbody><tr><td>1</td><td>11/11/25</td><td>REVISED PER ENGINEER / ARCHITECT REVIEW</td><td>KM</td></tr></tbody></table>	#	DATE	DESCRIPTION	BY	1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM	<table><thead><tr><th>SYM</th><th>TYPE</th><th>FINISH</th><th>TRUNK</th><th>ORIG</th><th>"C"</th><th>NPT</th><th>MANUF</th><th>SIN#</th><th>ESCUTCHEON</th><th>QTY</th></tr></thead><tbody><tr><td>⊙</td><td>PENDENT</td><td>WHITE</td><td>175</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTAULIC</td><td>V1862</td><td>CONCEALED</td><td>77</td></tr><tr><td>⊙</td><td>PENDENT</td><td>WHITE</td><td>175</td><td>34"</td><td>11.2</td><td>34"</td><td>VICTAULIC</td><td>V1106</td><td>CONCEALED</td><td>1</td></tr><tr><td>⬆</td><td>UPRIGHT</td><td>BRASS</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTAULIC</td><td>V2704</td><td>N/A</td><td>26</td></tr><tr><td>⬆</td><td>UPRIGHT</td><td>BRASS</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTAULIC</td><td>V1862</td><td>ALL IN CON SPRIG</td><td>1</td></tr><tr><td>⬆</td><td>UPRIGHT</td><td>BRASS</td><td>200</td><td>34"</td><td>5.6</td><td>34"</td><td>VICTAULIC</td><td>V3402</td><td>N/A</td><td>0</td></tr><tr><td>⬅</td><td>SIDEWALL</td><td>WHITE</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTAULIC</td><td>V2710</td><td>FLUSH</td><td>0</td></tr><tr><td>⬅</td><td>DRY PENDENT</td><td>CHROME</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTAULIC</td><td>V2614</td><td>EXTENDED</td><td>4</td></tr><tr><td>⬅</td><td>DRY SIDEWALL</td><td>CHROME</td><td>200</td><td>34"</td><td>8.0</td><td>34"</td><td>TYCO</td><td>TY4355</td><td>STANDARD</td><td>1</td></tr></tbody></table> <p>TOTAL SPRINKLERS THIS PROJECT: 130 TOTAL SPRINKLERS THIS DRAWING: 116</p>	SYM	TYPE	FINISH	TRUNK	ORIG	"C"	NPT	MANUF	SIN#	ESCUTCHEON	QTY	⊙	PENDENT	WHITE	175	12"	5.6	12"	VICTAULIC	V1862	CONCEALED	77	⊙	PENDENT	WHITE	175	34"	11.2	34"	VICTAULIC	V1106	CONCEALED	1	⬆	UPRIGHT	BRASS	200	12"	5.6	12"	VICTAULIC	V2704	N/A	26	⬆	UPRIGHT	BRASS	200	12"	5.6	12"	VICTAULIC	V1862	ALL IN CON SPRIG	1	⬆	UPRIGHT	BRASS	200	34"	5.6	34"	VICTAULIC	V3402	N/A	0	⬅	SIDEWALL	WHITE	200	12"	5.6	12"	VICTAULIC	V2710	FLUSH	0	⬅	DRY PENDENT	CHROME	200	12"	5.6	12"	VICTAULIC	V2614	EXTENDED	4	⬅	DRY SIDEWALL	CHROME	200	34"	8.0	34"	TYCO	TY4355	STANDARD	1	<p>JOB # CO5-29</p> <p>DATE: 07-25-2025</p> <p>SCALE: As Noted</p> <p>DRAWN BY: KM</p> <p>CHK. BY: LDT</p>	<p>PHOENIX FIRE PROTECTION, INC. P.O. BOX 2881 2883 LEE AVENUE SANFORD, N.C. 27332</p> <p>Area 300 - First Floor Piping Plan Flatwoods Middle School 3544 US 401 South Lillington, North Carolina</p> <p><i>Larry Dean Taylor</i> LARRY DEAN TAYLOR NICET LEVEL IV, CERT. NO. 112126</p> <p>SHEET NO. FP-5 OF</p>
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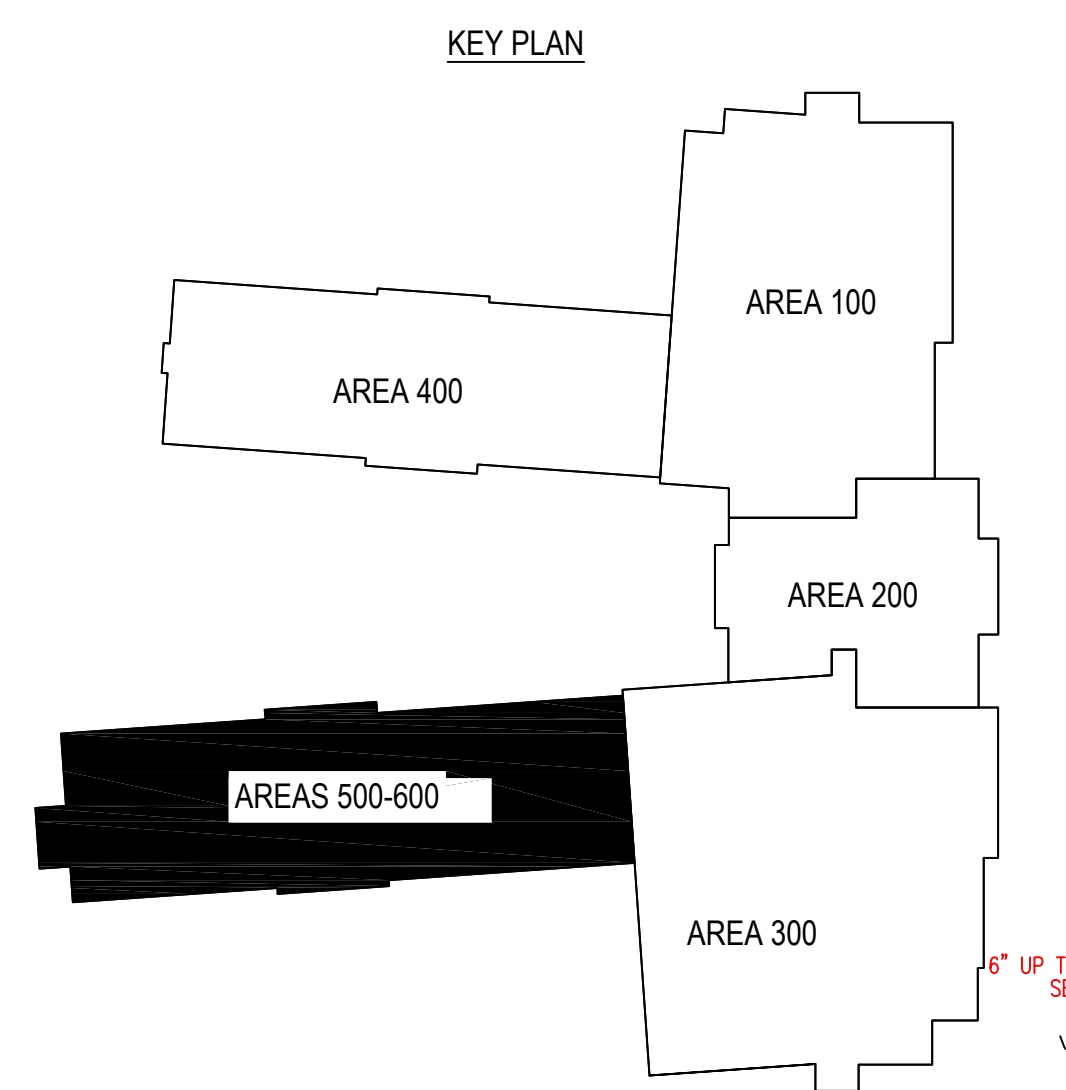
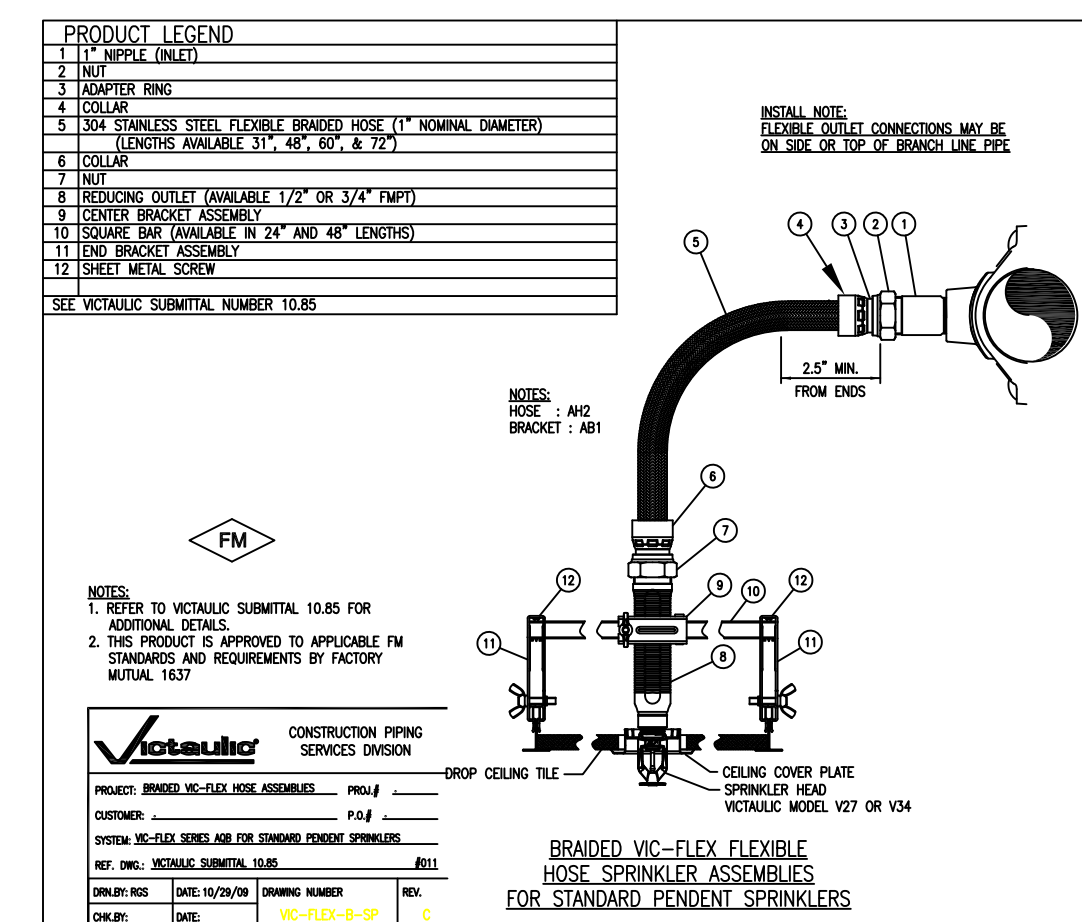
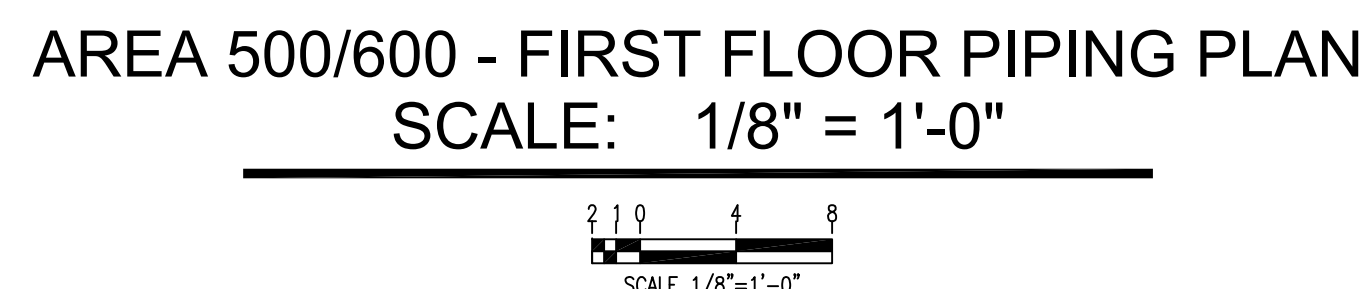
B. ALL 1.25" AND SMALLER PIPING TO BE BLACK, SCHEDULE 40 THREADED.

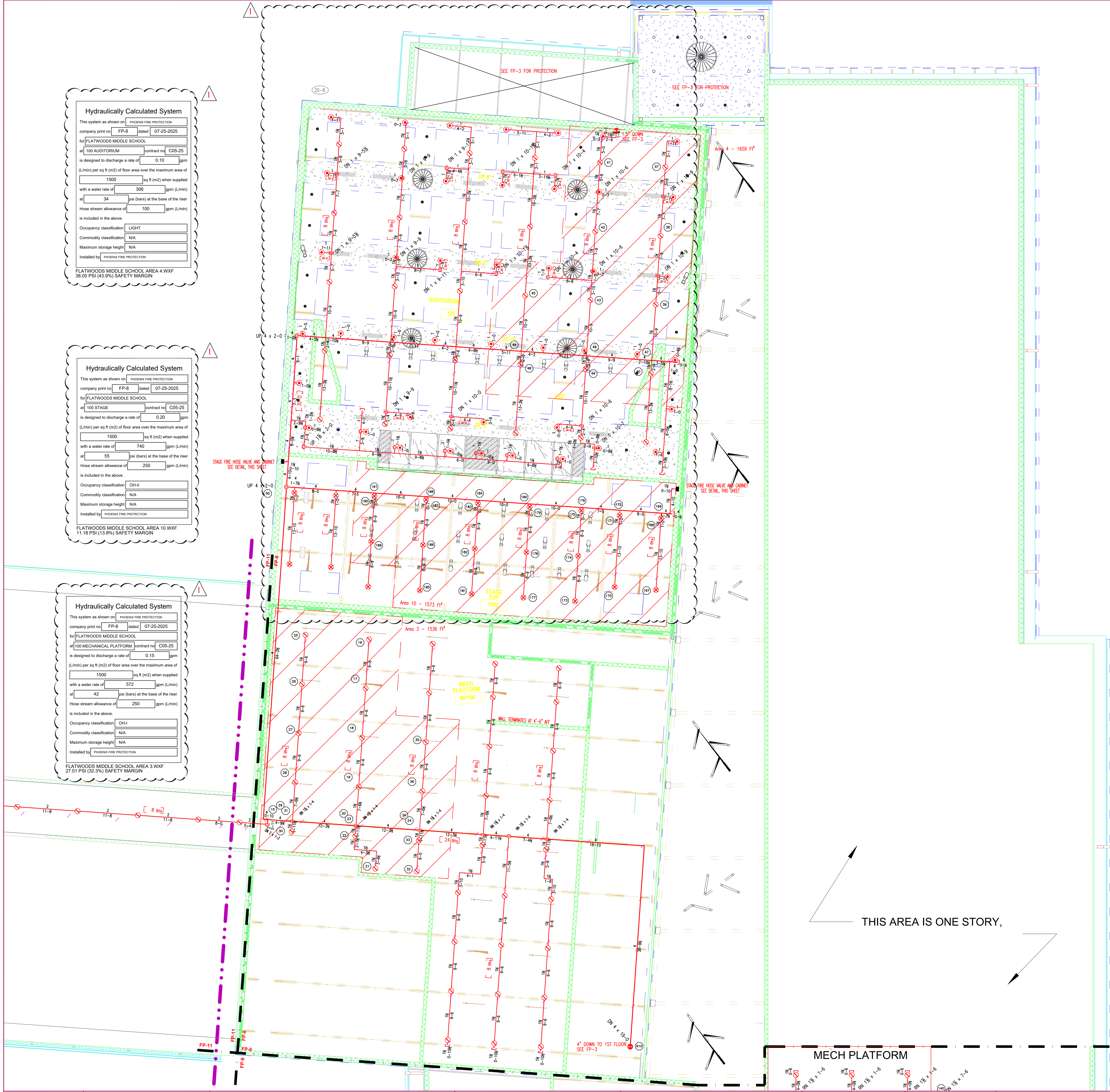
C. ALL 1.5" AND LARGER BRANCHLINES TO BE BLACK, SCHEDULE 10 GROOVED OR BLACK, SCHEDULE 40 THREADED. ALL MAINS TO BE BLACK, SCHEDULE 10 GROOVED.

D. ALL DRY PIPING, BLACK DRIP DISCHARGES, AND DRAIN/TEST DISCHARGES TO BE HOT-DIPPED GALVANIZED.

E. ALL PIPING SHALL BE MANUFACTURED IN THE US.

F. ALL PENDENT SPRINKLERS IN CEILING GRID TO BE ON 36" VICTAULIC AH2 FLEX DROPS.





Hydraulically Calculated System

This system as shown on: PHOENIX FIRE PROTECTION
company print no: FP-8 date: 07-25-2025
for: FLATWOODS MIDDLE SCHOOL
#100 AUDITORIUM contract no: C05-25
is designed to discharge a rate of: 0.10 gpm
(L/min) per sq ft (m2) of floor area over the maximum area of:
1500 sq ft (m2) when supplied
with a water rate of: 306 gpm (L/min)
at: 34 psi (bars) at the base of the riser
Hose stream allowance of: 100 gpm (L/min)
is included in the above.

Occupancy classification: LIGHT
Commodity classification: N/A
Maximum storage height: N/A
Installed by: PHOENIX FIRE PROTECTION

FLATWOODS MIDDLE SCHOOL AREA 4 WXF
38.05 PSI (43.9%) SAFETY MARGIN

Hydraulically Calculated System

This system as shown on: PHOENIX FIRE PROTECTION
company print no: FP-8 date: 07-25-2025
for: FLATWOODS MIDDLE SCHOOL
#100 STAGE contract no: C05-25
is designed to discharge a rate of: 0.20 gpm
(L/min) per sq ft (m2) of floor area over the maximum area of:
1500 sq ft (m2) when supplied
with a water rate of: 740 gpm (L/min)
at: 55 psi (bars) at the base of the riser
Hose stream allowance of: 250 gpm (L/min)
is included in the above.

Occupancy classification: CH-8
Commodity classification: N/A
Maximum storage height: N/A
Installed by: PHOENIX FIRE PROTECTION

FLATWOODS MIDDLE SCHOOL AREA 10 WXF
11.18 PSI (13.8%) SAFETY MARGIN

Hydraulically Calculated System

This system as shown on: PHOENIX FIRE PROTECTION
company print no: FP-8 date: 07-25-2025
for: FLATWOODS MIDDLE SCHOOL
#100 MECHANICAL PLATFORM contract no: C05-25
is designed to discharge a rate of: 0.15 gpm
(L/min) per sq ft (m2) of floor area over the maximum area of:
1500 sq ft (m2) when supplied
with a water rate of: 572 gpm (L/min)
at: 42 psi (bars) at the base of the riser
Hose stream allowance of: 250 gpm (L/min)
is included in the above.

Occupancy classification: CH-1
Commodity classification: N/A
Maximum storage height: N/A
Installed by: PHOENIX FIRE PROTECTION

FLATWOODS MIDDLE SCHOOL AREA 3 WXF
27.01 PSI (32.3%) SAFETY MARGIN

Top Beam Clamp Hanger

1" - 4" PIPE 3/8" ROD
5" - 8" PIPE 1/2" ROD
10" PIPE 5/8" ROD

TYPICAL #10 HANGER
NO SCALE

1 - 1" A.I.R.
1 - 1" Swivel Ring (PHD #141)
1 - 1" Top Beam Clamp (PHD #350)

Hilti Drop In Hanger

1" - 4" PIPE 3/8" ROD
5" - 8" PIPE 1/2" ROD

TYPICAL #65 HANGER
NO SCALE

1 - 1" A.I.R.
1 - 1" Swivel Ring (PHD #141)
1 - 1" Hilti HDE-P Drop-In Anchor

Top Beam Clamp Trapeze Hanger

Unit-Strut size to comply with
NPSA 1.3

1" - 4" PIPE 3/8" ROD
5" - 8" PIPE 1/2" ROD

TYPICAL #17B HANGER
NO SCALE

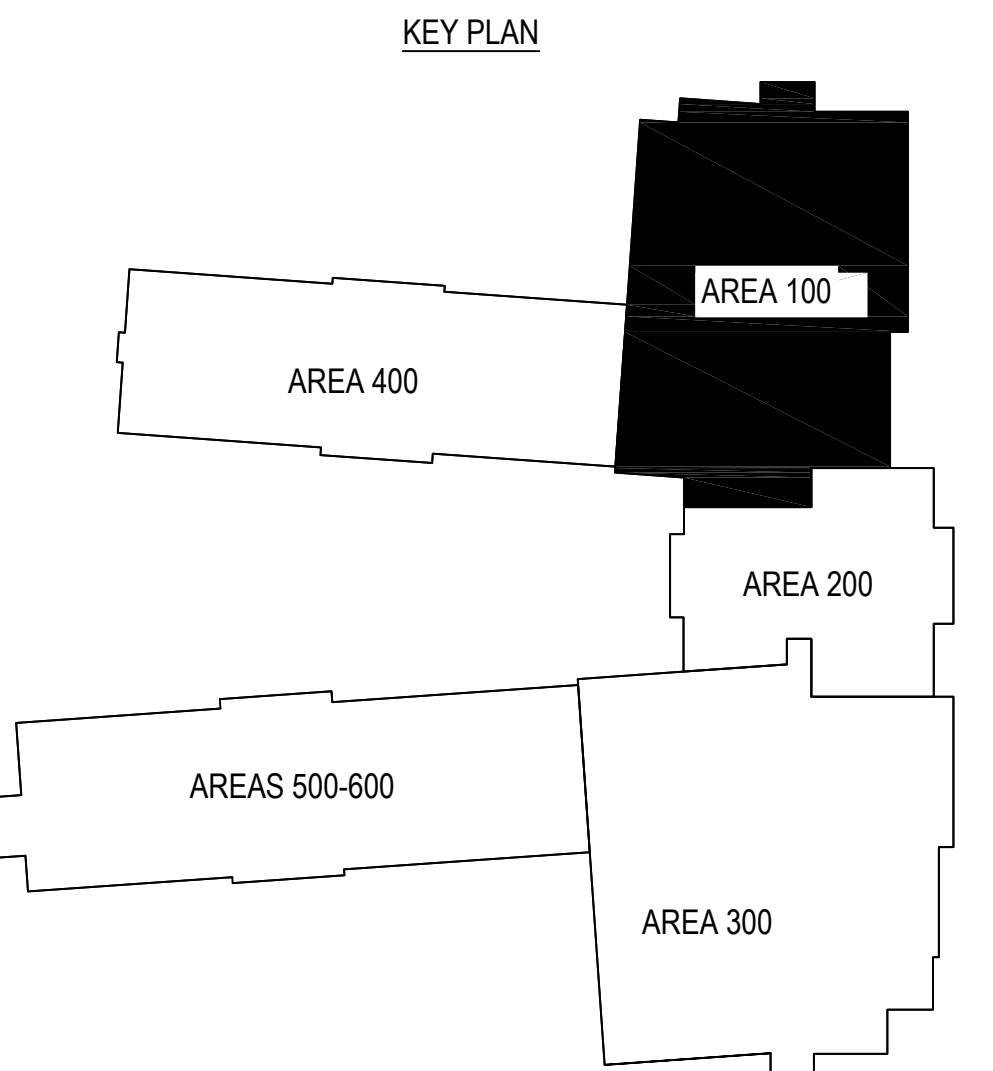
1 - 2" x 1/2" x 12 gal. x Length Unit-Strut (A + 4")
2 - 1/2" x 8" H-Strut for Attachment to Unit-Strut
2 - 1" Top Beam Clamp (PHD #350)
6 - 1" Nuts
6 - 1" Fender Washers

NOTE: Use #144 Hanger with Unit-Strut

STAGE FIRE HOSE VALVE AND CABINET
NO SCALE

GENERAL NOTES

A. FIRE PROTECTION SCOPE BEGINS AT 1'-0" AFF. UNDERGROUND IS BY OTHERS.
B. ALL 1.25" AND SMALLER PIPING TO BE BLACK, SCHEDULE 40 THREADED.
C. ALL 1.5" AND LARGER BRANCHLINES TO BE BLACK, SCHEDULE 10 GROOVED OR BLACK, SCHEDULE 40 THREADED.
ALL MAINS TO BE BLACK, SCHEDULE 10 GROOVED.
D. ALL DRY PIPING, BALL DRIP DISCHARGES, AND DRAIN/TEST DISCHARGES TO BE HOT-DIPPED GALVANIZED.
E. ALL PIPING SHALL BE MANUFACTURED IN THE U.S.
F. ALL PENDENT SPRINKLERS IN CEILING GRID TO BE ON 36" VICTAULIC AH2 FLEX DROPS.



AREA 100 - SECOND FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

N.C. LICENSE NO. PFS-13628

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APPROVING AGENCIES

APPROVING AUTHORITY: HARNETT COUNTY
ADDRESS: P.O. BOX 65
LILLINGTON, NC 27546
PHONE NO.: (910) 893-7525
FAX NO.: (910) 893-2793
WEBSITE: www.harnett.org

ADDITIONAL NOTES

THIS AREA IS ONE STORY.

SEAL

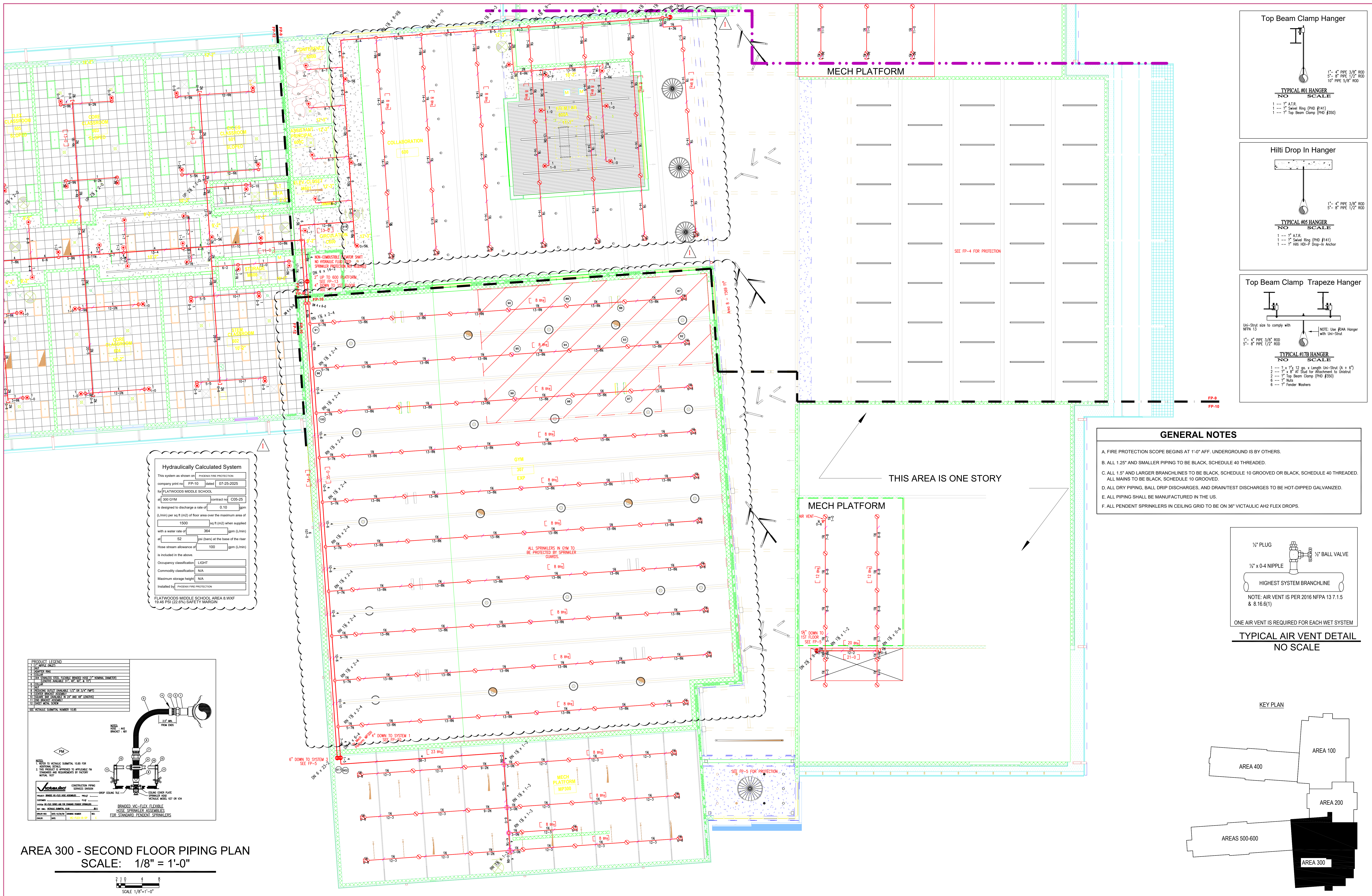
#	DATE	DESCRIPTION	BY	CHK
1	11/11/2025	REVISED PER ENGINEER / ARCHITECT REVIEW		

SPRINKLER SUMMARY											
TYPE	FINISH	TEMP	ORIF	"N"	MANUF	SNR	ESOUTDOOR	QTY			
PENDENT	WHITE	175	1/2"	5.6	12"	VICTAULIC	V1982	CONCEALED	24		
PENDENT	WHITE	175	3/4"	11.2	3/4"	VICTAULIC	V1190	CONCEALED	0		
UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6	12"	VICTAULIC	V2704	N/A	69		
UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6	12"	VICTAULIC	V2704	N/A	0		
UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	V2402	N/A	23		
SIDEWALL	WHITE	200	1/2"	5.6	12"	VICTAULIC	V2710	FLUSH	0		
DRY PENDENT	CHROME	200	1/2"	5.6	12"	VICTAULIC	V3614	EXTENDED	0		
DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4395	STANDARD	0		
TOTAL SPRINKLERS THIS PROJECT					1292	TOTAL SPRINKLERS THIS DRAWING					136

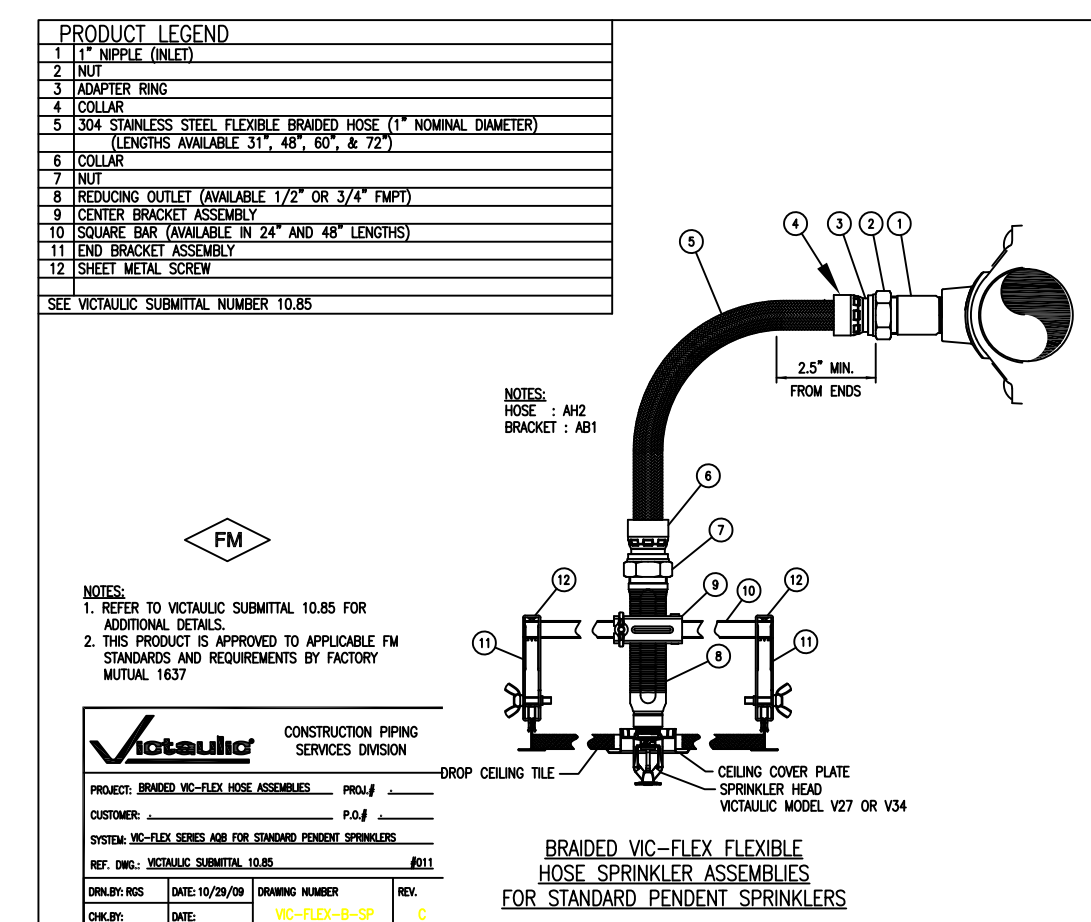
JOB #: C05-25
DATE: 07-25-2025
SCALE: As Noted
DRAWN BY: KM
CHK BY: LDT

PHOENIX FIRE PROTECTION, INC.
P.O. BOX 2881
2863 LEE AVENUE
SAINTFORD, N.C. 27332
PHONE: (919) 774-3042 FAX: (919) 774-1492
Area 100 - Second Floor Piping Plan
Flatwoods Middle School
3544 US 401 South
Lillington, North Carolina
11/11/2025
LARRY DEAN TAYLOR
NICET LEVEL IV, CERT. NO. 112126

SHEET NO. FP-8 OF 13



Hydraulically Calculated System	
This system is shown on	PHOENIX FIRE PROTECTION
company print no	FP-10
dated	07-25-2025
for	FLATWOODS MIDDLE SCHOOL
at	300 GYM
contract no	C05-25
is designed to discharge a rate of	0.10 gpm
(L/min) per sq ft (m ²) of floor area over the maximum area of	1500 sq ft (m ²)
with a water rate of	384 gpm (L/min)
at	52 psi (bars) at the base of the riser
Hose stream allowance of	100 gpm (L/min)
is included in the above.	
Occupancy classification	LIGHT
Commodity classification	N/A
Maximum storage height	N/A
Installed by	PHOENIX FIRE PROTECTION
FLATWOODS MIDDLE SCHOOL AREA 8 W/FP 10.40 PSI (22.8% SAFETY MARGIN)	



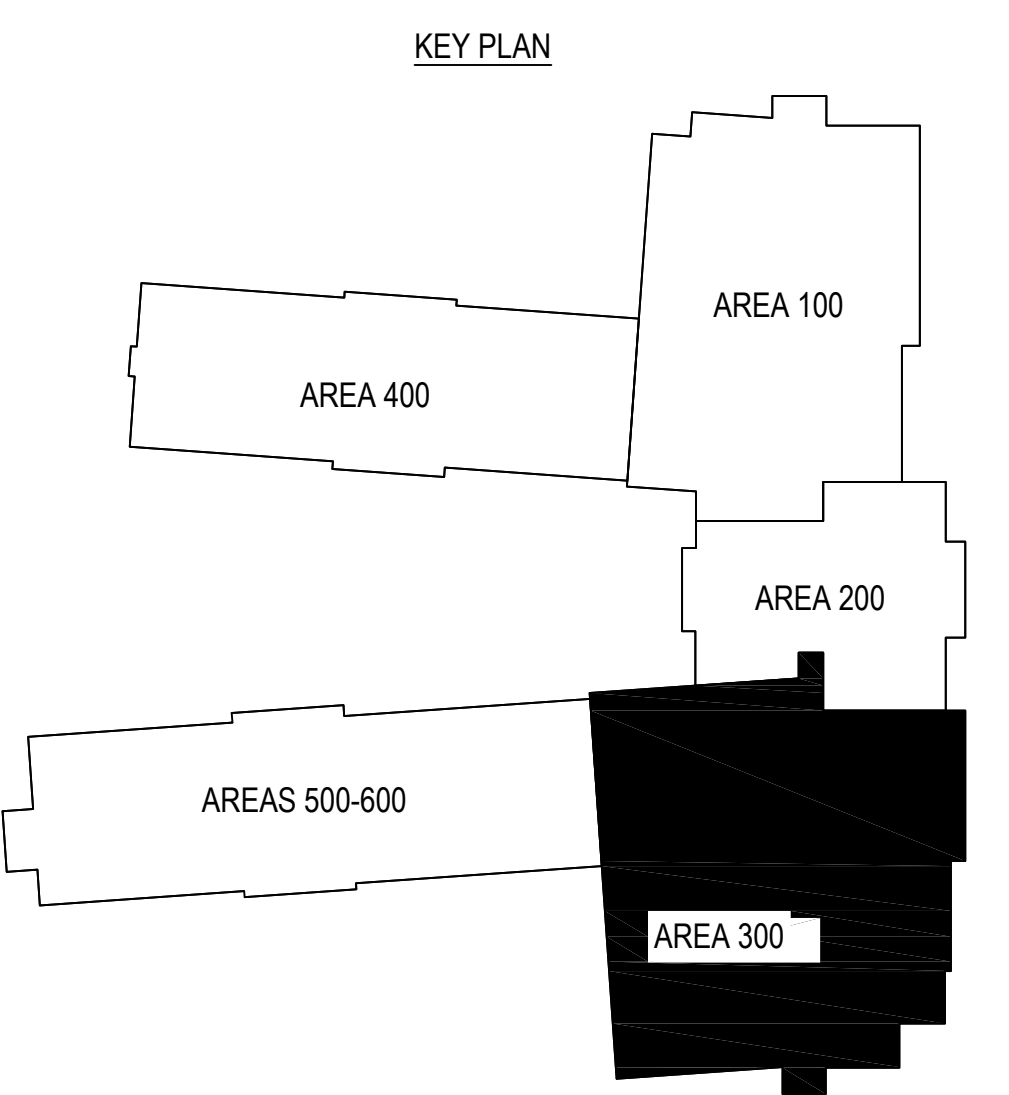
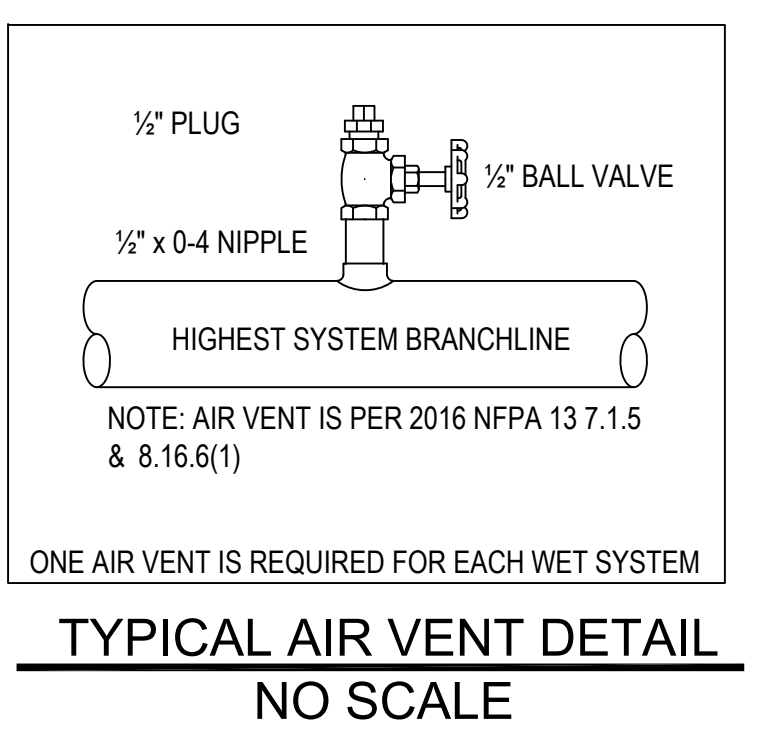
AREA 300 - SECOND FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"

Top Beam Clamp Hanger

Hilti Drop In Hanger

Top Beam Clamp Trapeze Hanger

- GENERAL NOTES**
- A. FIRE PROTECTION SCOPE BEGINS AT 1'-0" AFF. UNDERGROUND IS BY OTHERS.
 - B. ALL 1/2" AND SMALLER PIPING TO BE BLACK, SCHEDULE 40 THREADED.
 - C. ALL 1 1/2" AND LARGER BRANCHLINES TO BE BLACK, SCHEDULE 10 GROOVED OR BLACK, SCHEDULE 40 THREADED. ALL MAINS TO BE BLACK, SCHEDULE 10 GROOVED.
 - D. ALL DRY PIPING, BALL DRIP DISCHARGES, AND DRAINTEST DISCHARGES TO BE HOT-DIPPED GALVANIZED.
 - E. ALL PIPING SHALL BE MANUFACTURED IN THE US.
 - F. ALL PENDENT SPRINKLERS IN CEILING GRID TO BE ON 36" VICTAULIC AH2 FLEX DROPS.



PLAN NORTH

N.C. LICENSE NO. PFS-13628

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FP-8 - Area 100 - Second Floor Piping Plan
FP-9 - Area 200 - Second Floor Piping Plan
FP-10 - Area 300 - Second Floor Piping Plan
FP-11 - Area 400 - Second Floor Piping Plan
FP-12 - Area 500/600 - Second Floor Piping Plan
FP-13 - Area 500/600 - Mech Platform Piping Plan

APPROVING AGENCIES

APPROVING AUTHORITY:	HARNETT COUNTY
ADDRESS:	P.O. BOX 65
CITY & STATE:	LILLINGTON, NC 27456
PHONE NO.:	(910) 893-7525
FAX NO.:	(910) 893-2793
WEBSITE:	www.harnett.org

ADDITIONAL NOTES

SEAL	
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REVISIONS

#	DATE	DESCRIPTION	BY
1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM

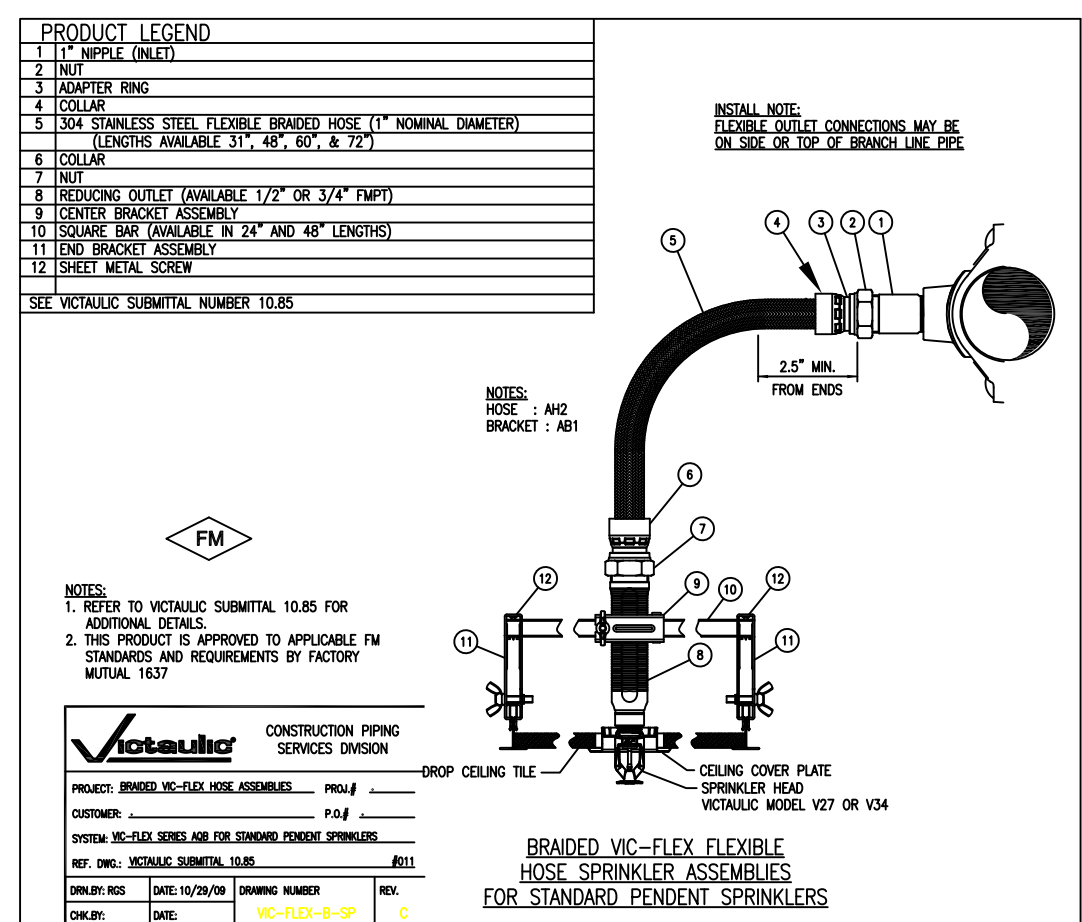
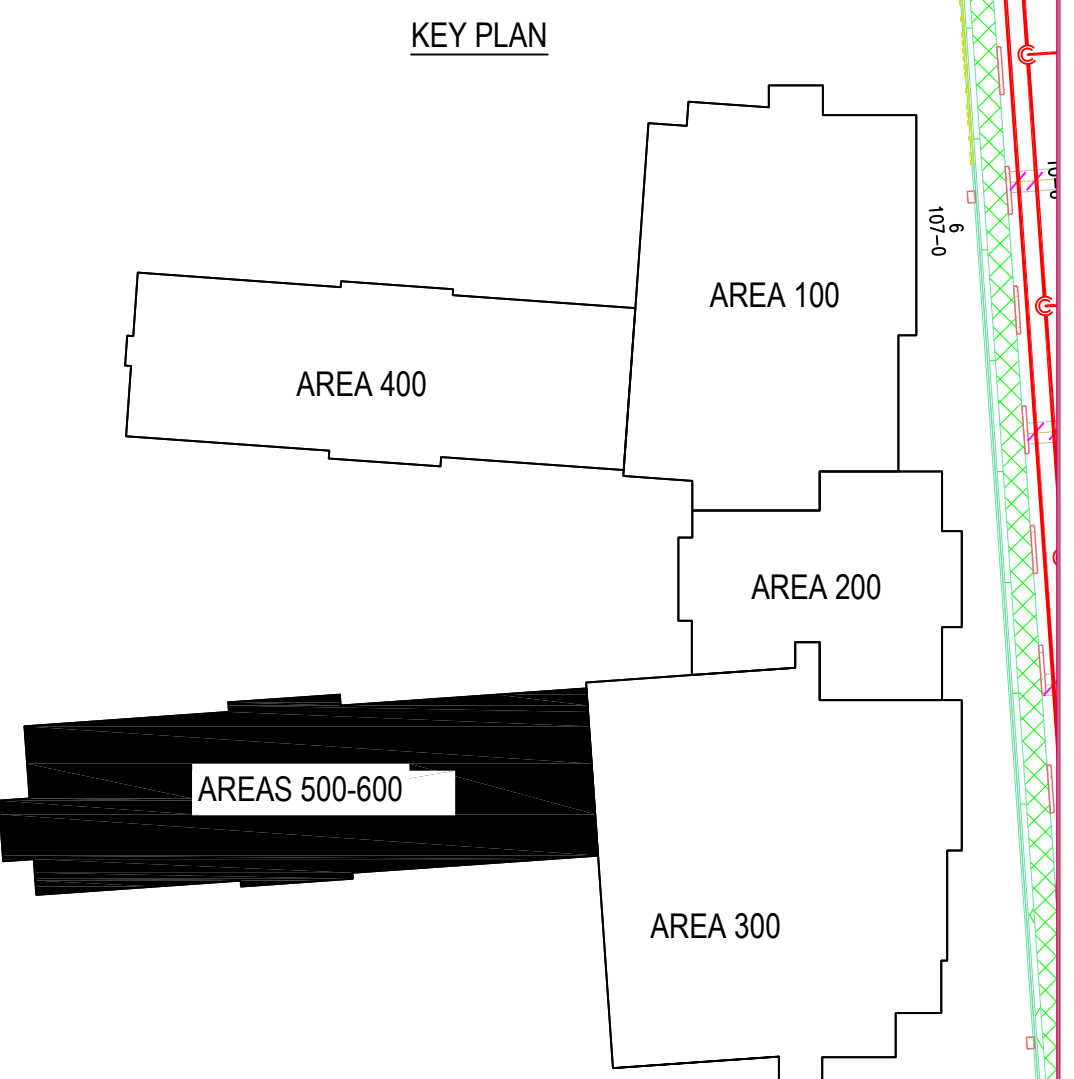
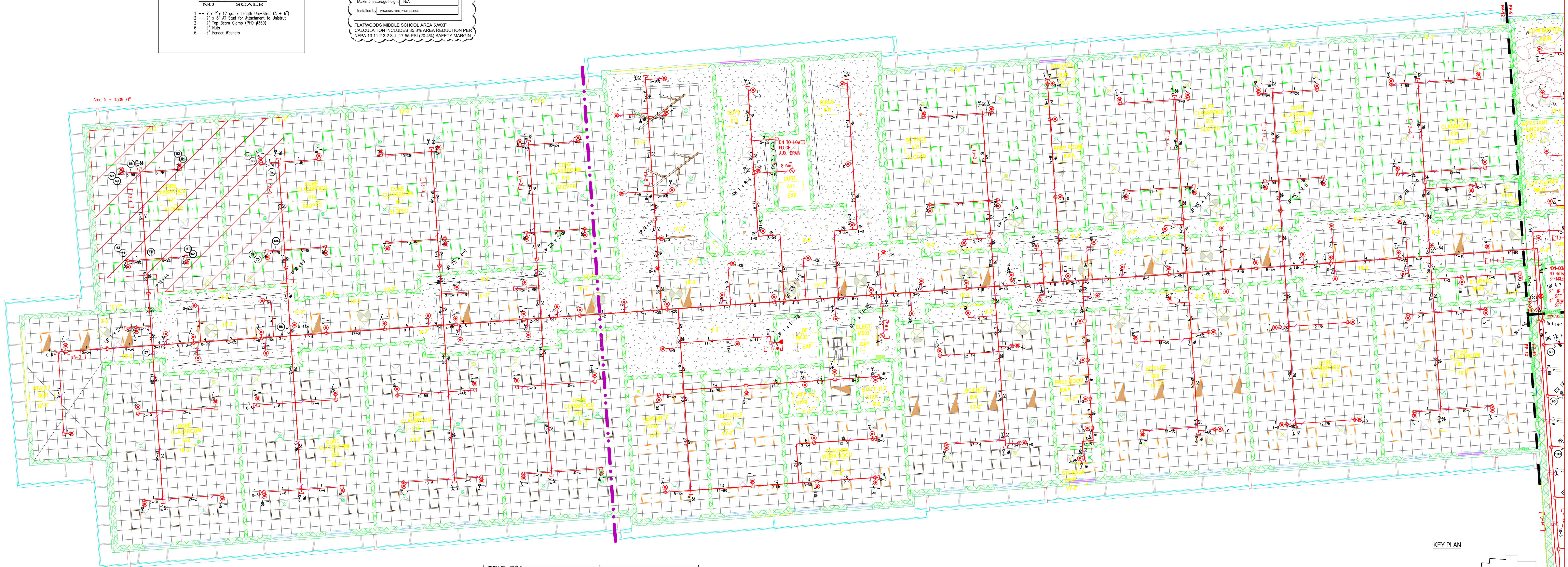
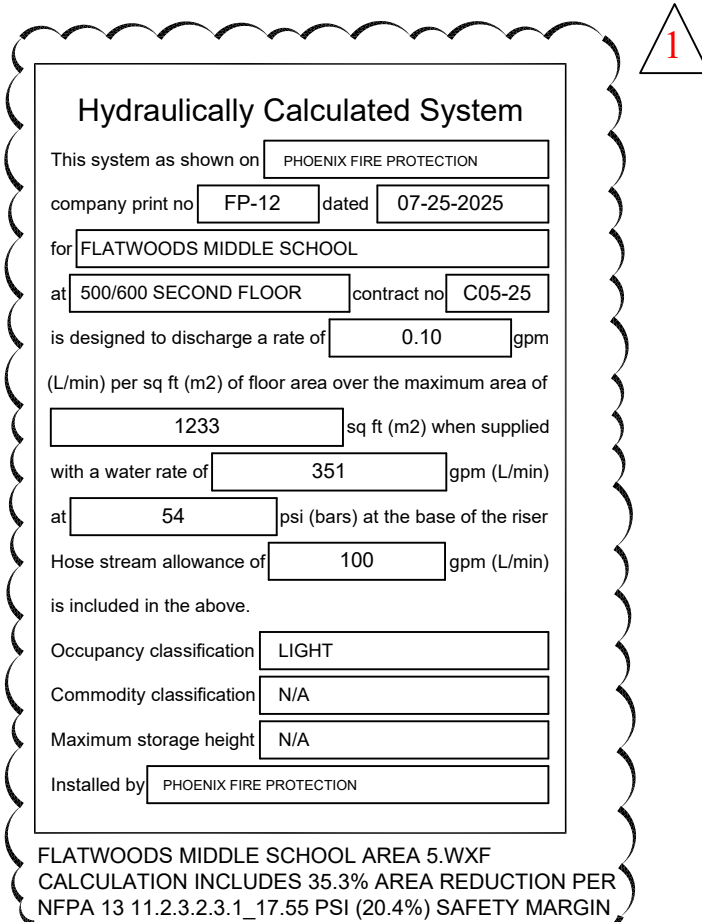
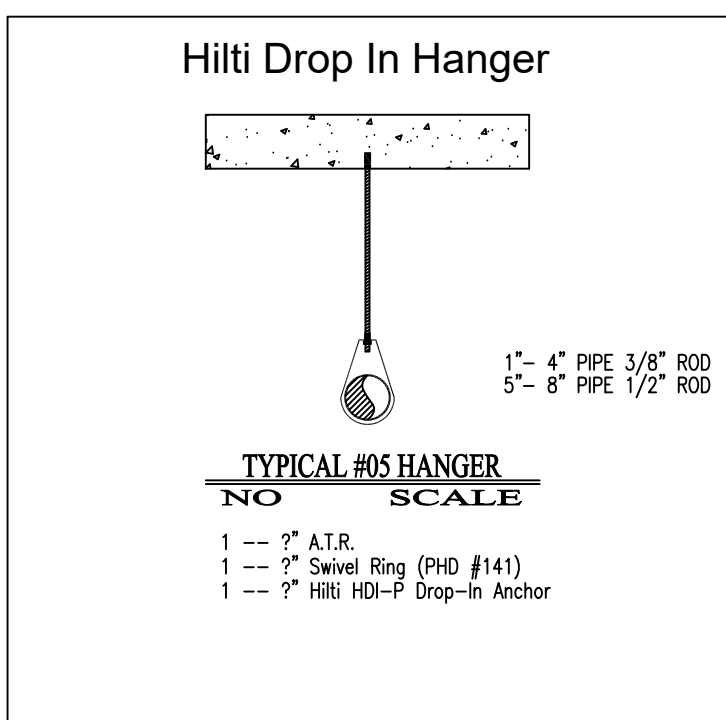
SPRINKLER SUMMARY

SYM	TYPE	FINISH	TEMP	ORIF	"N"	NPT	MANUE	SINN	ESCUTCHEON	QTY.
○	PENDENT	WHITE	175	1/2"	5.6	1/2"	VICTAULIC	V3802	CONCEALED	0
○	PENDENT	WHITE	175	3/4"	11.2	3/4"	VICTAULIC	V1106	CONCEALED	0
○	UPRIGHT	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2704	N/A	115
○	UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6	1/2"	VICTAULIC	V2704	N/A	0
○	UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	V3402	N/A	0
○	SHOWALL	WHITE	200	1/2"	5.6	1/2"	VICTAULIC	V2710	FLUSH	0
○	DRY SIDEWALL	CHROME	200	1/2"	5.6	1/2"	VICTAULIC	V3614	EXTENDED	0
○	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4305	STANDARD	0

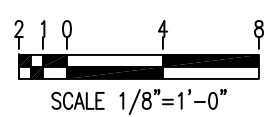
TOTAL SPRINKLERS THIS PROJECT: 1292 TOTAL SPRINKLERS THIS DRAWING: 116

JOB #
C05-25
DATE:
07-25-2025
SCALE:
As Noted
DRAWN BY:
KM
CHK. BY:
LDT

PHOENIX FIRE PROTECTION, INC.
P.O. BOX 2881
2883 LEE AVENUE
SANFORD, N.C. 27332
PHONE: (919) 774-3042 FAX: (919) 774-1492
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SHEET NO: FP-10
OF 13

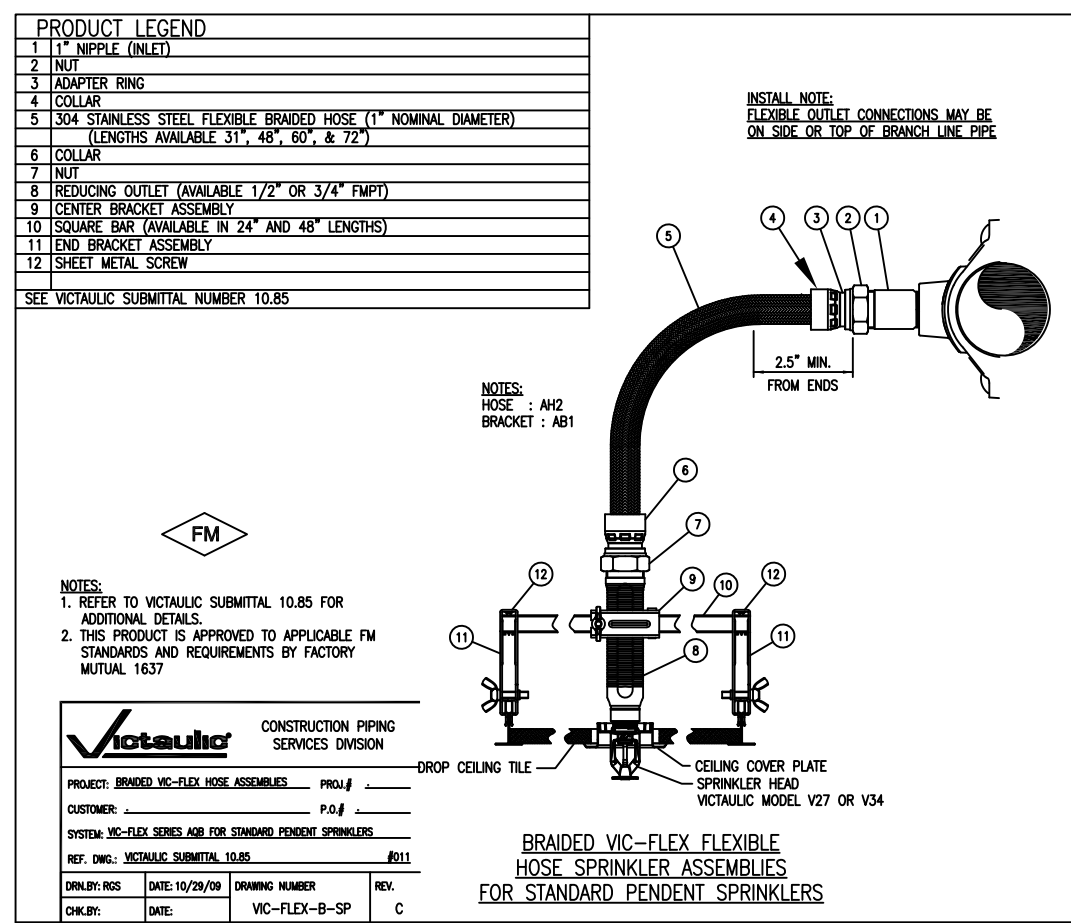
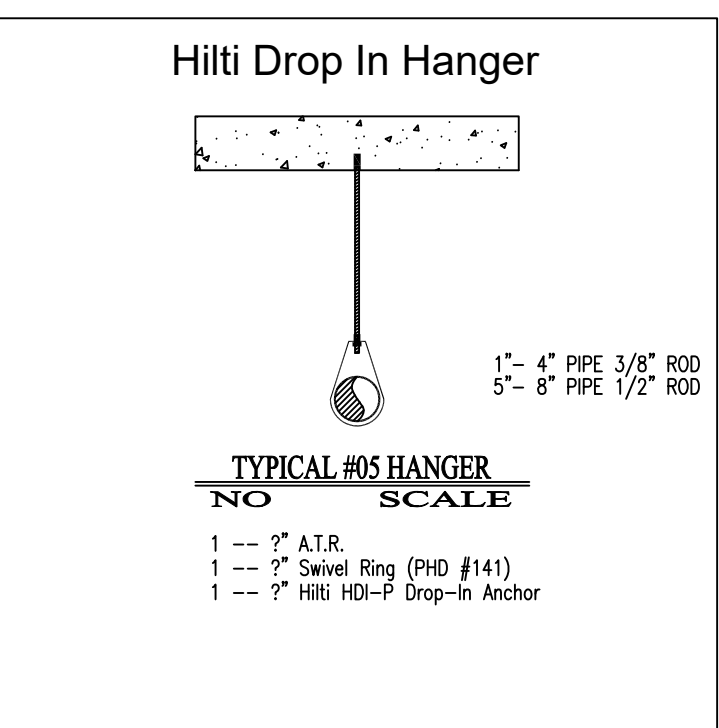



AREA 500/600 - SECOND FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"



This fire sprinkler ranning and design drawing has been prepared by Phoenix Fire Protection, Inc. as a licensed fire sprinkler contractor under Article 2 of Chapter 87 of the General Statutes for Phoenix Fire Protection, Inc.'s exclusive use pursuant to G.S. §89C-25(8), and Phoenix Fire Protection, Inc. 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. © 2025 Phoenix Fire Protection, Inc.

SHEET INDEX	APPROVING AGENCIES	ADDITIONAL NOTES	SEAL	REVISIONS										JOB #	PHOENIX FIRE PROTECTION, INC. P.O. BOX 2881 2883 LEE AVENUE SANFORD, NC 27332 PHONE: (919) 774-3042 FAX: (919) 774-1492 Area 500/600 - Second Floor Piping Plan Flatwoods Middle School 3544 US 401 South Lillington, North Carolina						
FP-1 - Site Plan / Cover Sheet FP-2 - Details FP-3 - Area 100 - First Floor Piping Plan FP-4 - Area 200 - First Floor Piping Plan FP-5 - Area 300 - First Floor Piping Plan FP-6 - Area 400 - First Floor Piping Plan FP-7 - Area 500/600 - First Floor Piping Plan FP-8 - Area 100 - Second Floor Piping Plan FP-9 - Area 200 - Second Floor Piping Plan FP-10 - Area 300 - Second Floor Piping Plan FP-11 - Area 400 - Second Floor Piping Plan FP-12 - Area 500/600 - Second Floor Piping Plan FP-13 - Area 500/600 - Mech Platform Piping Plan	HARNETT COUNTY ADDRESS: P.O. BOX 65 CITY & STATE: LILLINGTON, NC 27456 PHONE NO.: (910) 893-7525 FAX NO.: (910) 893-2793 WEBSITE: www.harnett.org			#	DATE	DESCRIPTION	BY	SYM	TYPE	FINISH	TMP	ORF	"K"	NPT		MANUF.	SIN#	ESCUTCHEON	QTY.	JOB # COS-25	
				1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM		P	PENDENT	WHITE	175	1/2"	5.6		1/2"	VICTAULIC	VX802	CONGEALED	35	DATE:
									P	PENDENT	WHITE	374	1/2"	3/4"		VICTAULIC	V1106	CONGEALED	10	07-25-2025	
									U	UPRIGHT	BRASS	200	1/2"	5.6		1/2"	VICTAULIC	V2704	N/A	2	SCALE:
									U	UPRIGHT (ON SPRIG)	BRASS	200	1/2"	5.6		1/2"	VICTAULIC	V2704	N/A	2	As Noted
									B	BRASS	200	3/4"	8.0	3/4"	VICTAULIC	VX802	N/A	0	DRAWN BY:		
									S	SIDEWALL	WHITE	200	1/2"	5.6	1/2"	VICTAULIC	V2710	FLUSH	1	KM	
									P	DRY PENDENT	CHROME	200	1/2"	5.6	1/2"	VICTAULIC	VX614	EXTENDED	0		
									D	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4355	STANDARD	0		
				TOTAL SPRINKLERS THIS PROJECT 1292										11/11/2025		SHEET NO.					
				TOTAL SPRINKLERS THIS DRAWING 161										PP-12 OF 13							



 PLAN NORTH	<p>This fire sprinkler planning and design drawing has been prepared by Phoenix Fire Protection, Inc. as a licensed fire sprinkler contractor under Article 2 of Chapter 87 of the General Statutes for Phoenix Fire Protection, Inc.'s exclusive use pursuant to G.S. §89C-25(8), and Phoenix Fire Protection, Inc. 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 person or entity in reliance on this drawing or any copy thereof is strictly prohibited. © 2025 Phoenix Fire Protection, Inc.</p> <p>N.C. LICENSE NO. PFS-13628</p>	<p>SHEET INDEX</p> <p>FP-1 - Site Plan / Cover Sheet FP-2 - Details FP-3 - Area 100 - First Floor Piping Plan FP-4 - Area 200 - First Floor Piping Plan FP-5 - Area 300 - First Floor Piping Plan FP-6 - Area 400 - First Floor Piping Plan FP-7 - Area 500 - First Floor Piping Plan FP-8 - Area 100 - Second Floor Piping Plan FP-9 - Area 200 - Second Floor Piping Plan FP-10 - Area 300 - Second Floor Piping Plan FP-11 - Area 400 - Second Floor Piping Plan FP-12 - Area 500/600 - Second Floor Piping Plan FP-13 - Area 500/600 - Mech Platform Piping Plan</p>	<p>APPROVING AGENCIES</p> <p>APPROVING AUTHORITY: HARNETT COUNTY ADDRESS: P. O. BOX 65 CITY & STATE: LILLINGTON, NC 27546 PHONE NO.: (919) 893-7525 FAX NO.: (919) 893-2793 WEBSITE: www.harnett.org</p>			<p>SEAL</p>	<p>REVISIONS</p> <table><thead><tr><th>#</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr></thead><tbody><tr><td>1</td><td>11/11/25</td><td>REVISED PER ENGINEER / ARCHITECT REVIEW</td><td>KM</td></tr></tbody></table>	#	DATE	DESCRIPTION	BY	1	11/11/25	REVISED PER ENGINEER / ARCHITECT REVIEW	KM	<table><thead><tr><th colspan="10">SPRINKLER SUMMARY</th></tr><tr><th>SYM</th><th>TYPE</th><th>FINISH</th><th>THICK</th><th>ORIF</th><th>"K"</th><th>NPT</th><th>MANUF</th><th>SIGN</th><th>ESCUTCHEON</th><th>QTY.</th></tr></thead><tbody><tr><td>⦿</td><td>PENDENT</td><td>WHITE</td><td>175</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTALICA</td><td>V3802</td><td>CONCEALED</td><td>0</td></tr><tr><td>⦿</td><td>PENDENT</td><td>WHITE</td><td>175</td><td>34"</td><td>11.2</td><td>34"</td><td>VICTALICA</td><td>V1106</td><td>CONCEALED</td><td>0</td></tr><tr><td>⦿</td><td>UPRIGHT (ON SPRNG)</td><td>BRASS</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTALICA</td><td>V2704</td><td>N/A</td><td>11</td></tr><tr><td>⦿</td><td>UPRIGHT (ON SPRNG)</td><td>BRASS</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTALICA</td><td>V2709</td><td>N/A</td><td>0</td></tr><tr><td>⦿</td><td>UPRIGHT</td><td>BRASS</td><td>200</td><td>3/4"</td><td>8.0</td><td>3/4"</td><td>VICTALICA</td><td>V3402</td><td>N/A</td><td>0</td></tr><tr><td>◀</td><td>SIDEWALL</td><td>WHITE</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTALICA</td><td>V2710</td><td>FLUSH</td><td>0</td></tr><tr><td>◀</td><td>DRY PENDENT</td><td>CHROME</td><td>200</td><td>12"</td><td>5.6</td><td>12"</td><td>VICTALICA</td><td>V3614</td><td>EXTENDED</td><td>0</td></tr><tr><td>◀</td><td>DRY SIDEWALL</td><td>CHROME</td><td>200</td><td>3/4"</td><td>8.0</td><td>3/4"</td><td>TYCO</td><td>TY4355</td><td>STANDARD</td><td>0</td></tr><tr><td colspan="10">TOTAL SPRINKLERS THIS PROJECT</td><td>1292</td></tr><tr><td colspan="10">TOTAL SPRINKLERS THIS DRAWING</td><td>12</td></tr></tbody></table>	SPRINKLER SUMMARY										SYM	TYPE	FINISH	THICK	ORIF	"K"	NPT	MANUF	SIGN	ESCUTCHEON	QTY.	⦿	PENDENT	WHITE	175	12"	5.6	12"	VICTALICA	V3802	CONCEALED	0	⦿	PENDENT	WHITE	175	34"	11.2	34"	VICTALICA	V1106	CONCEALED	0	⦿	UPRIGHT (ON SPRNG)	BRASS	200	12"	5.6	12"	VICTALICA	V2704	N/A	11	⦿	UPRIGHT (ON SPRNG)	BRASS	200	12"	5.6	12"	VICTALICA	V2709	N/A	0	⦿	UPRIGHT	BRASS	200	3/4"	8.0	3/4"	VICTALICA	V3402	N/A	0	◀	SIDEWALL	WHITE	200	12"	5.6	12"	VICTALICA	V2710	FLUSH	0	◀	DRY PENDENT	CHROME	200	12"	5.6	12"	VICTALICA	V3614	EXTENDED	0	◀	DRY SIDEWALL	CHROME	200	3/4"	8.0	3/4"	TYCO	TY4355	STANDARD	0	TOTAL SPRINKLERS THIS PROJECT										1292	TOTAL SPRINKLERS THIS DRAWING										12	<p>JOB # C05-25 DATE: 07-25-2025 SCALE: As Noted DRAWN BY: KM</p>	<p>PHOENIX FIRE PROTECTION, INC. P.O. BOX 2881 2863 LEE AVENUE SANFORD, NC 27332 PHONE: (919) 714-3042 FAX: (919) 714-1492 Area 500/600 - Mech Platform Piping Plan Flatwoods Middle School 3544 US 401 South Lillington, North Carolina</p>
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