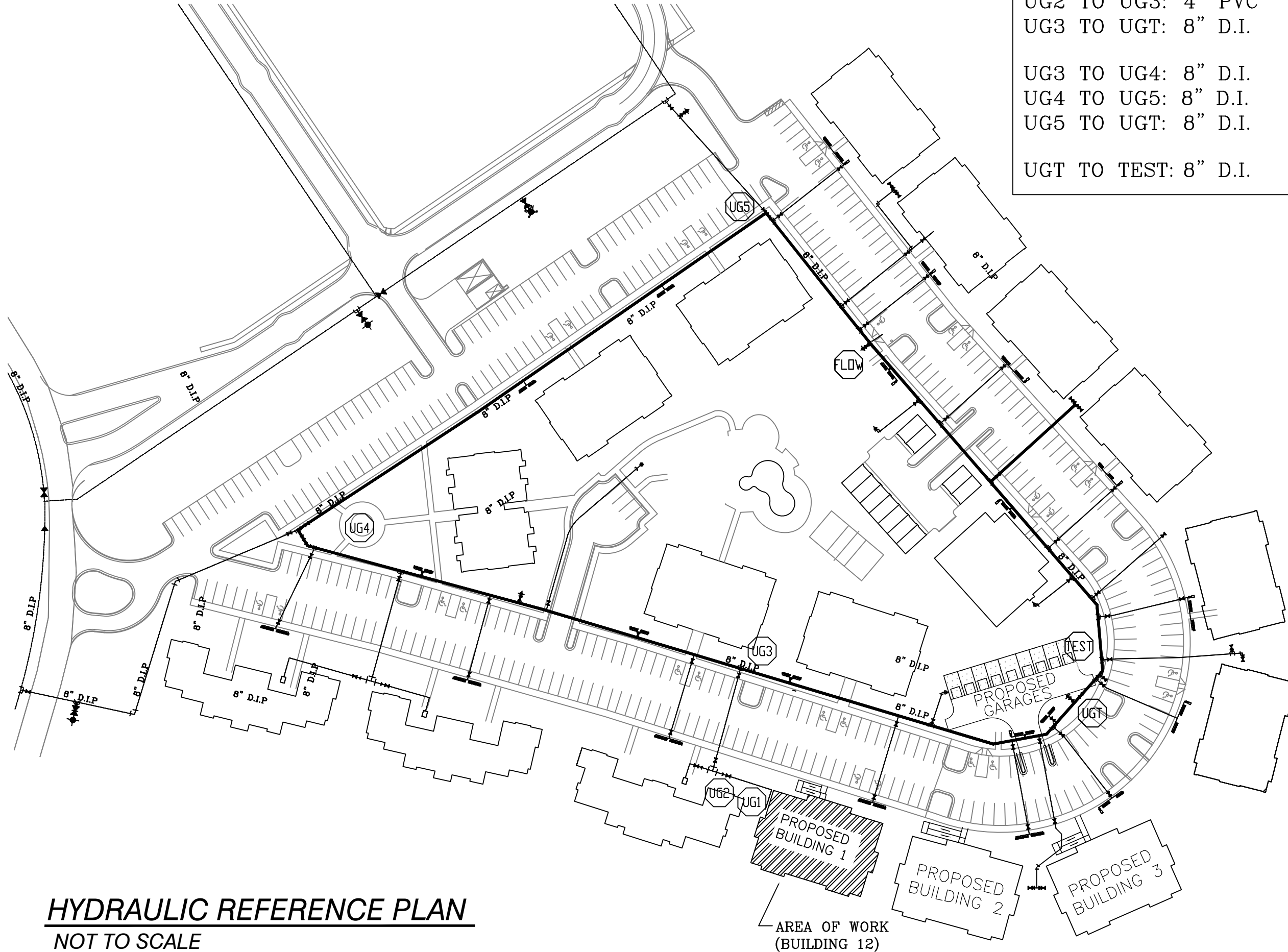
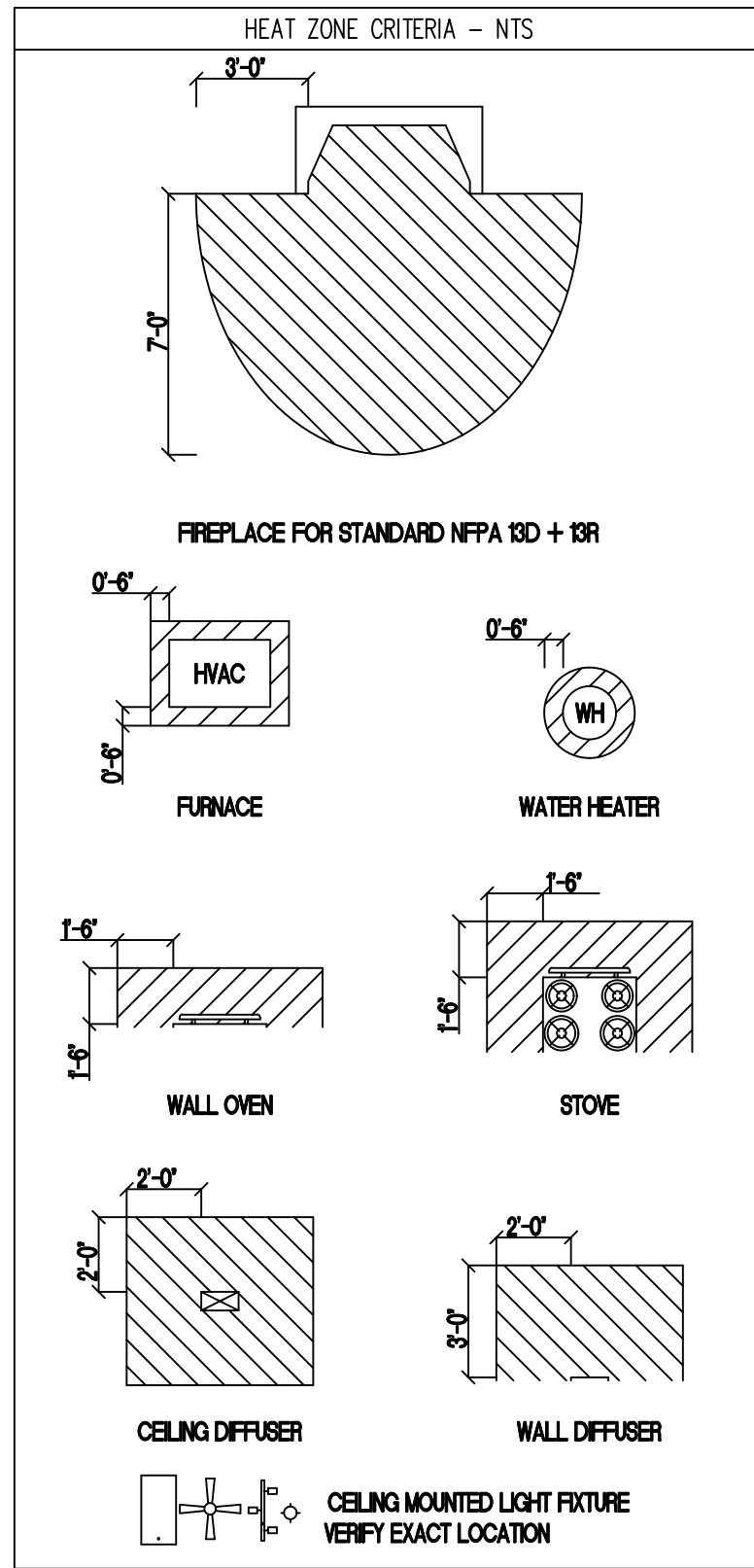


1. ALL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 13R (2013) AND THE NORTH CAROLINA STATE BUILDING CODE. THE GENERAL CONDITIONS OF THE CONTRACT APPLY.
2. THE FP CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE WORKING SYSTEM WHICH MEETS ALL REQUIREMENTS OF THE STATE BUILDING CODE, NFPA 13R, AND LOCAL AUTHORITY.
3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURERS' RECOMMENDATIONS.
4. SPRINKLER HEADS ARE SPACED PER MANUFACTURES CUTSHEETS. FAST RESPONSE HEADS SHALL BE USED.
5. ALL PIPE SHALL BE APPROVED CPVC LISTED FOR FIRE PROTECTION USE.
6. SPRINKLER SYSTEM IS WET PIPE TYPE FOR ALL FLOORS.
7. LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.
8. SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ.FT. AND LESS
PER NFPA 13R - 6.6.2
9. SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES
PER NFPA 13R - 6.6.3
10. SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS, PENTHOUSE EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, FLOOR/ CEILING SPACES, ELEVATOR SHAFTS, CRAWL SPACES AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES AND DO NOT CONTAIN FUEL-FIRED EQUIPMENT. PER NFPA 13R - 6.6.6
11. PIPING TO BE INSTALLED ON CONDITIONED SIDE OF WALL AND CEILINGS. POLYPLASTIC AND INSULATION SHALL BE INSTALLED BY OTHERS.
12. NFPA 13R, 2013 6.8.2 - THE SPRINKLER SYSTEM PIPING SHALL NOT HAVE A SEPARATE CONTROL VALVE INSTALLED UNLESS SUPERVISED BY ONE OF THE FOLLOWING METHODS: 1) CENTRAL STATION, PROPRIETARY, OR REMOTE STATION ALARM SERVICE 2) LOCAL ALARM SERVICE THAT CAUSES THE SOUNDING OF AN AUDIBLE SIGNAL ATTENDED LOCATION, 3) VALVES ARE LOCKED OPEN.

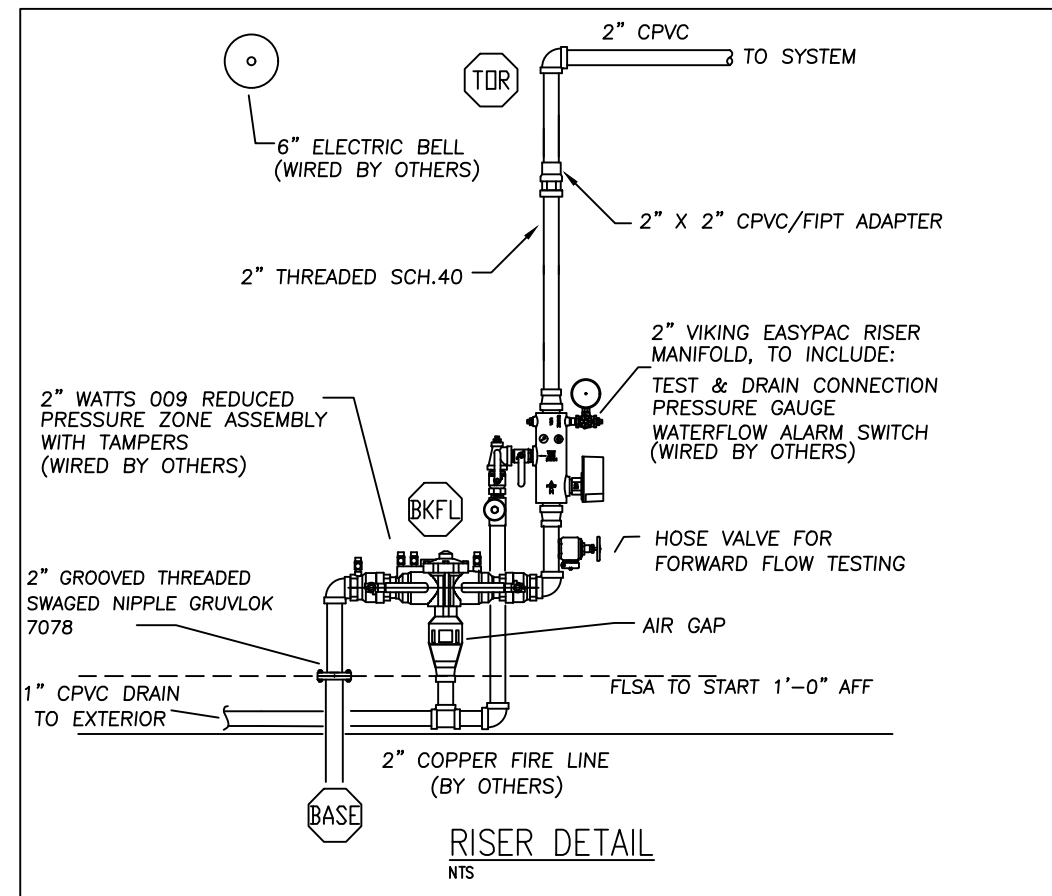
- 13R RESIDENTIAL SPRINKLER SYSTEM
- SUMMIT TO DESIGN AND INSTALL ALL PIPING, FITTINGS AND HEADS IN RESIDENTIAL UNITS WITHIN AREAS OF WORK
- SPRINKLER SYSTEM DESIGNED PER NFPA 13R, 2013 EDITION.
- SUMMIT TO INSTALL NEW 2" BACKFLOW IN SPRINKLER RISER ROOM AS SHOWN. SUMMIT TO CONNECT SYSTEM RISER TO REMOTE 2" FDC RUN-IN (BY OTHERS) AS SHOWN.
- SUMMIT TO INSTALL DRAIN TO EXTERIOR WITH TEST AND DRAIN CONNECTION (PIPE ROUTE NOT SHOWN, TO BE CUT-ON-JOB BY SUMMIT)
- ALL PIPING AND FITTINGS TO BE CPVC EXCLUDING RISER AND UNDERGROUND (UNDERGROUND BY OTHERS)
- ALL PENDENTS AND SIDEWALLS TO BE SEMI-RECESSED WITH A WHITE FINISH
- PIPING TO BE INSTALLED ON CONDITIONED SIDE OF WALLS AND CEILINGS. POLYPLASTIC AND INSULATION PROVIDED BY OTHERS
- ALL CEILINGS ARE FLAT, CEILING HEIGHTS 8'-0" UNLESS OTHERWISE NOTED.
- A CABINET WITH STOCK OF EXTRA SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13R.
- METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13R.



NODE LEGEND

UG1 TO UG2:	2" COPPER	50-0
UG2 TO UG3:	4" PVC	150-0
UG3 TO UGT:	8" D.I.	300-0
UG3 TO UG4:	8" D.I.	400-0
UG4 TO UG5:	8" D.I.	500-0
UG5 TO UGT:	8" D.I.	500-0
UGT TO TEST:	8" D.I.	10-0

SPRINKLER SUMMARY										
SYM	TYPE	FINISH	TEMP	ORIF.	"K"	NPT	MANUF.	SIN#	ESCUTCHEON	QTY.
	QR PENDENT	WHITE	175°	1/2"	5.6K	1/2"	VIKING	VK3021	SEMI-RECESSED	0
◉	QR RES. PENDENT	WHITE	175°	1/2"	4.9K	1/2"	VIKING	VK468	SEMI-RECESSED	0
◉	QR DRY SIDEWALL	CHROME	155°	1/2"	5.6K	1/2"	VIKING	VK178	ADJ. STANDARD	0
◉	QR RES. SIDEWALL	WHITE	175°	1/2"	4.2	1/2"	VIKING	VK484	SEMI-RECESSED	0
			°							0
			°							0
			°							0
			°							0
TOTAL SPRINKLERS THIS PROJECT						177	TOTAL SPRINKLERS THIS DRAWING			0



I HAVE REVIEWED THESE PLANS AND
CERTIFY THAT THEY COMPLY WITH THE
ADOPTED NFPA STANDARDS.

JABh

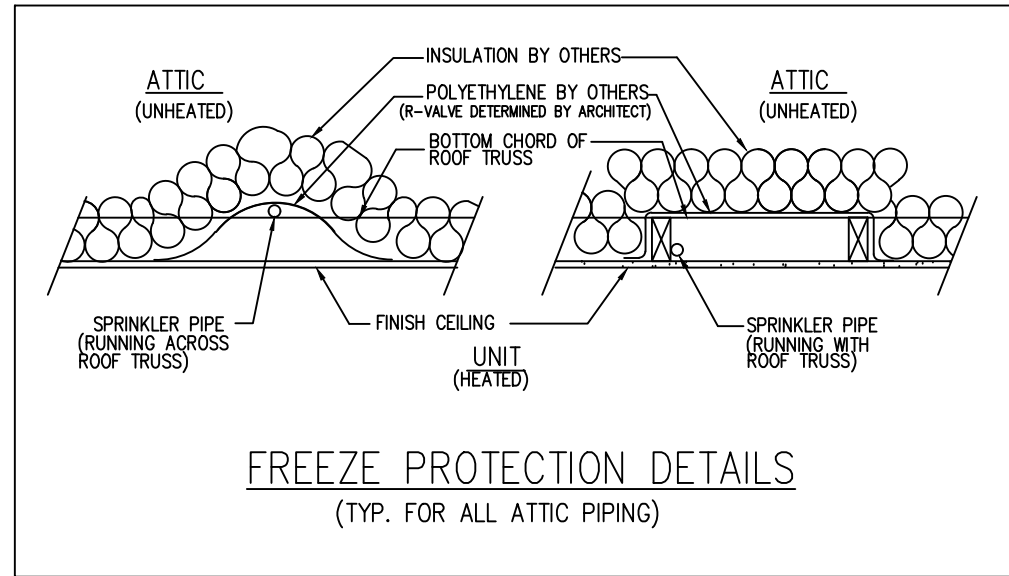
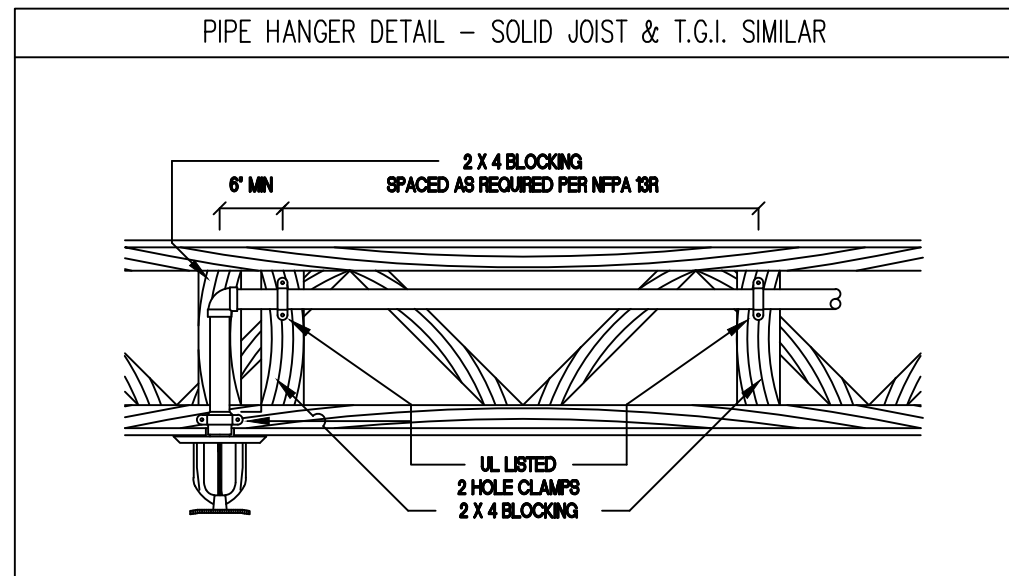
JEANNETTE R. BARTH, SET
LEVEL IV - WATER-BASED SYSTEMS LAYOUT
NICET #122591 | NC LICENSE - #35920
SUMMIT FIRE & SECURITY
NORTH CAROLINA STATE LICENSE #29733

FAIRWAY POINTE BUILDING 12		System: WET
Project Street Address: 188 GALLERY DR, SPRING LAKE NC 28390		Sys. Sq. Ft.: VARIES
Suite: N/A	Floor#: VARIES	Ceiling Height: VARIES
Designed By: I. BURROWS	Phone: (919) 872-3250	Total Bldg. Hgt.: VARIES
Occupancy: RESIDENTIAL & STORAGE	Hazard: 13R / OHI	

Design Area #	REMOTE AREA - 1	REMOTE AREA - 2	REMOTE AREA - 3	REMOTE AREA - 4	REMOTE AREA - 5
Design Method	DENSITY/AREA	DENSITY/AREA	DENSITY/AREA		
Location	1ST FLOOR STORAGE	3RD FL. LIVING ROOM	3RD FLOOR BREEZEWAY		
Type of System	WET	WET	WET		
Hazard Class	OHI	LH	LH		
Criteria From	NFPA 13 (2013)	NFPA 13R (2013)	NFPA 13 (2013)		
Design Area	ENTIRE SQFT	3 HEADS	4 HEADS		
Sprinkler Spacing	VARIES	VARIES	150		
Density	.15	.05	.1		
K-factor	5.6	4.2	5.6		
Hose Allowance	250 GPM	N/A	N/A		
# Design Sprinklers	11	3	4		
Special Application Spk.	No	No	No		
Requirement @ TEST					
GPM Required	436.61 GPM	66.99 GPM	67.20 GPM		
PSI Required	94.79 PSI	83.06 PSI	53.38 PSI		
Safety factor @ Test	17.74 PSI	35.72 PSI	65.42 PSI		
Dry Sys. Volume (gal)	N/A	N/A	N/A		

Tested by	SUMMIT FIRE & SECURITY	Date/Time	4/5/23	Pressure Hydrant	---
Hydrant Elevation	110 FEET	Flow Hydrant # 1	----	Flow Hydrant #2	----
Static (PSI)	119	Residual (PSI)	110	Flow (gpm)	522

Certified Fire Flow Test Result & Analyses to be Attached to Product Data & Hyd. Calculations



System No. W-L-1085

F Rating = 1 or 2 G See Item 1B

R Rating = 0 or

L Rating All Ambient - Less Than 1 GWS/G Ft

R Rating All Other F - 4 GWS/G Ft

SECTION A-A

1. Wall Assembly: The 1 or 2 F fire-rated gypsum wallboard and wall assembly shall be constructed of the materials and in the manner specified in the individual 300 or 400 Series Wall and Partitions sections of the Division 5 Divisional Specification and shall comply with the following construction details:

A. Steel Wall Partitions may consist of either wood studs or steel channel studs. Wood studs to consist of spans 24 in. maximum spaced 16 in. O.C. Steel studs to be 24 in. $\times$ 12 in. maximum spaced 24 in. O.C.

B. Concrete Slab Wall: 4 in. thick, 4 in. wide walls with corners or tapered walls. The corners without type number of corners, tapered type with steel reinforcement and the type specified in the individual Wall and Partitions Section. See also details of the wall assembly in wall 1 installed.

C. Dens of concrete coping cut through spans, without or with side wall assembly to be min 1/4 in. $\times$ 1/4 in. $\times$ 1/4 in. coping supported on a drainage perimeter (See 2). The top of coping to be finished surface to the height of the coping of the wall assembly in wall 1 installed.

2. Through Partitions: One mastic pipe, pipe and tubing to be installed after completion or concurrently after the framing system. Pipes, conduit and tubing to be 1/2 inch supported on both sides of wall assembly. The anchor between the through-partition and the parapet of the coping and the wall to be min 5 in. $\times$ 1/4 in. (See 10). The following types and sizes of mastic pipes, conduit or tubing may be used:

A. Cast Iron 12 in. $\times$ 1/4 in. (see schedule) Schedule 40 (or heavier) steel pipe.

B. Iron pipe 12 in. $\times$ 1/4 in. (see schedule) steel or ductile iron pipe.

C. Copper Pipe 6 in. $\times$ 1/4 in. (see schedule) steel electric metallic tubing and steel conduit.

D. Copper Tubing 6 in. $\times$ 1/4 in. (see schedule) (P or H) brass or aluminum tubing.

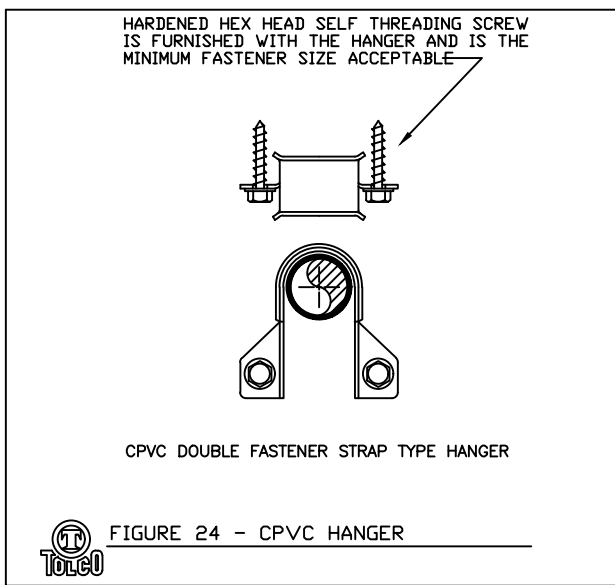
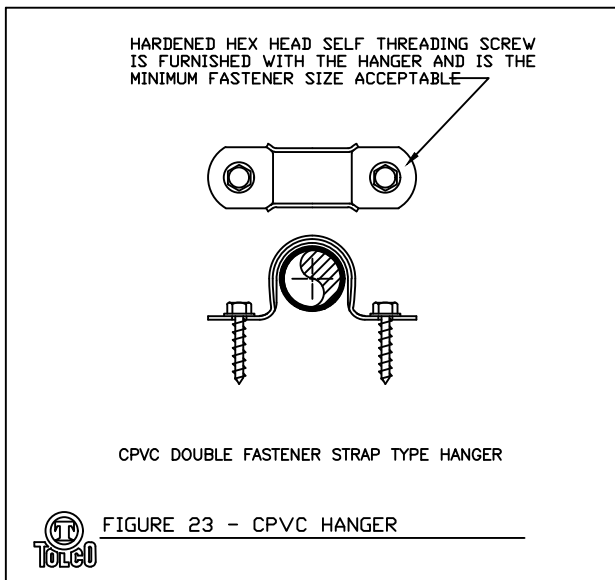
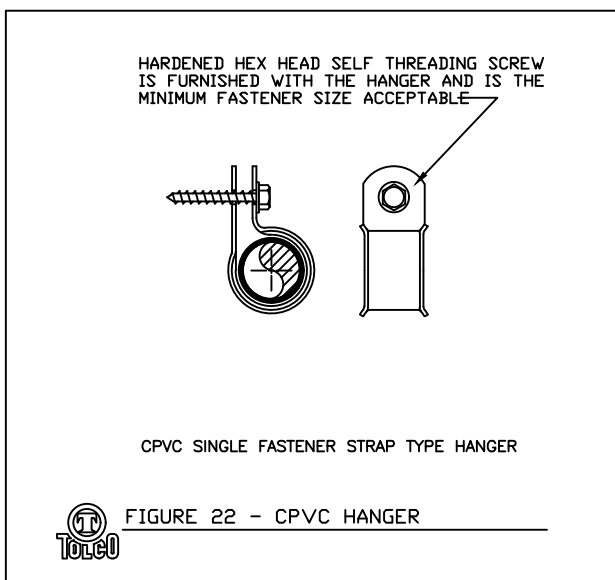
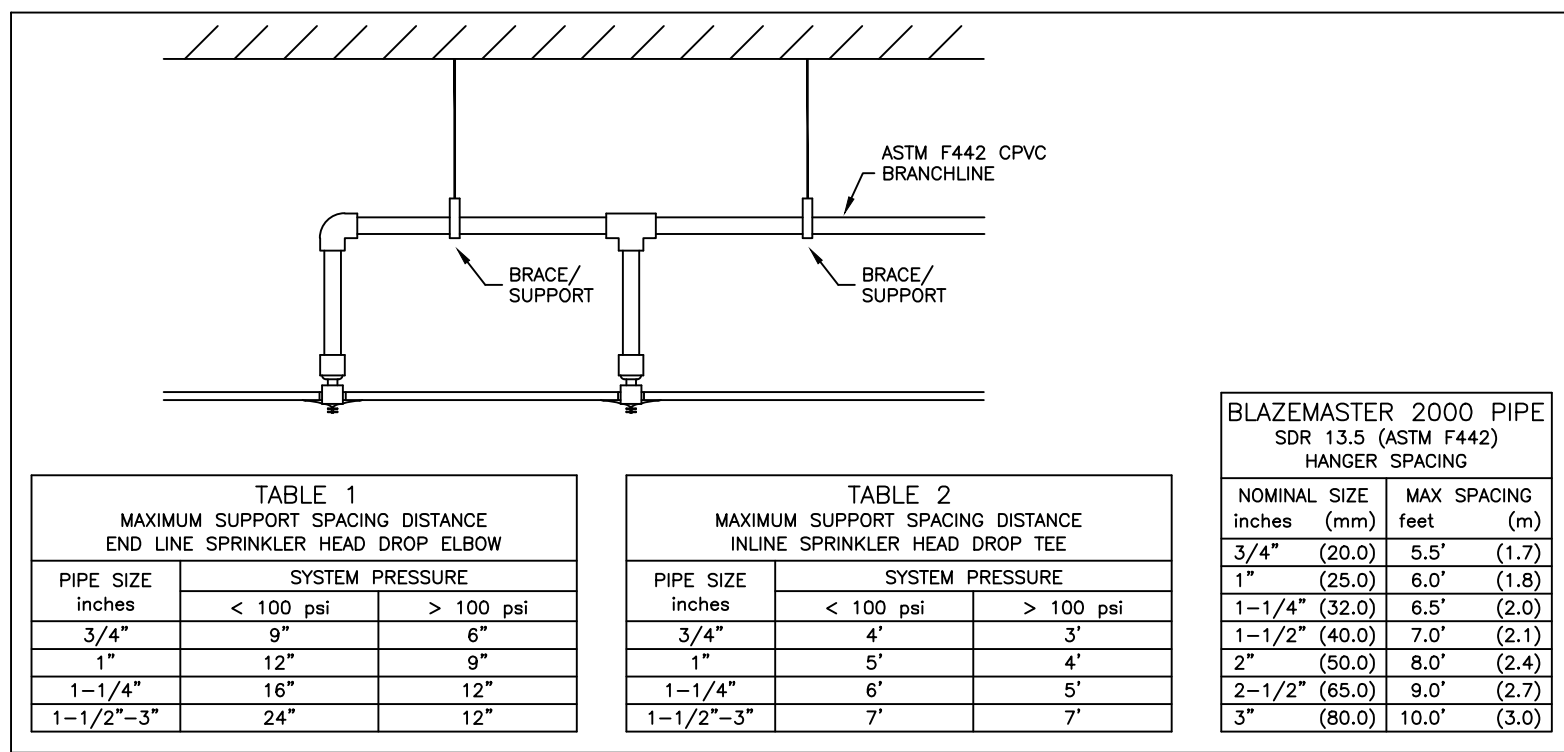
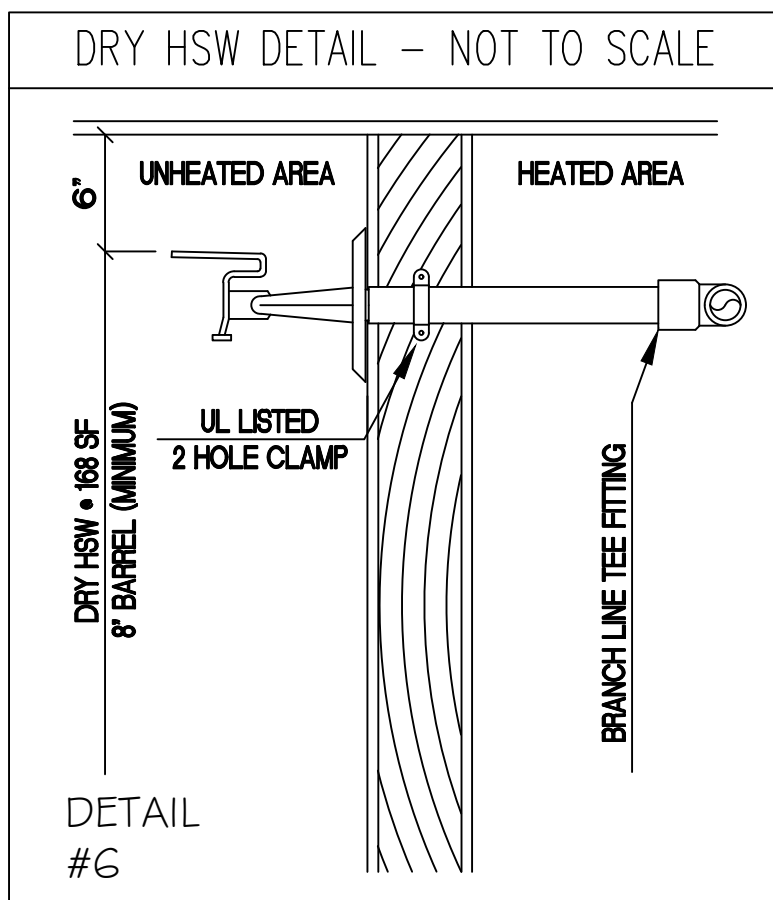
E. Copper Pipe 6 in. $\times$ 1/4 in. (see schedule) (P or H) brass or aluminum tubing.

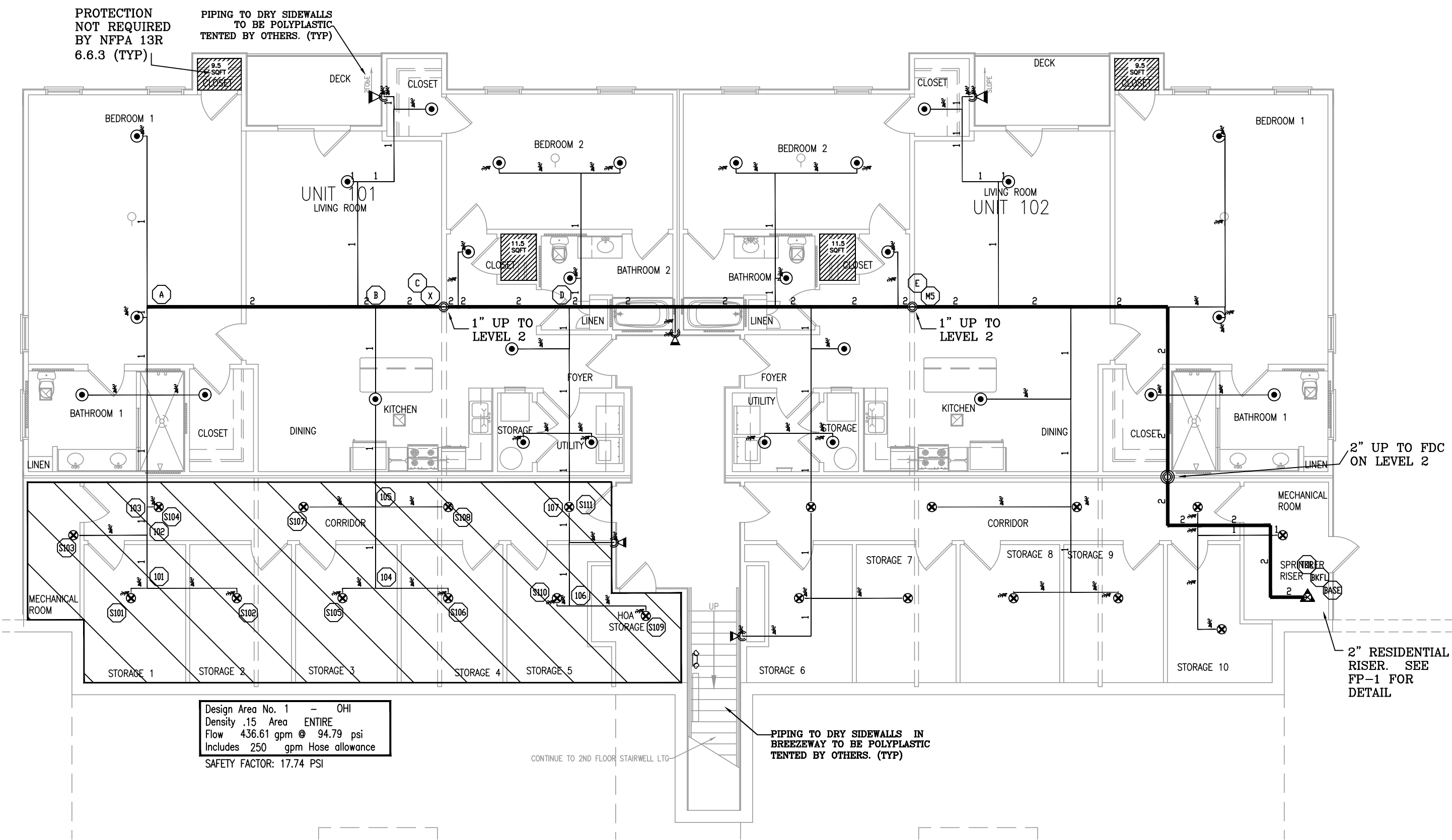
F. 2 in. Solid or Solid Insulated - 2 in. (see schedule) to be bonded into the structure to maximum extent possible. Additional 6 ft bonded to be installed such that a min 1/2 in. corner is formed around the penetrating pipe and capillary (See 10) and the profile of the coping.

3. ALL CONSTRUCTION DETAILS, OF

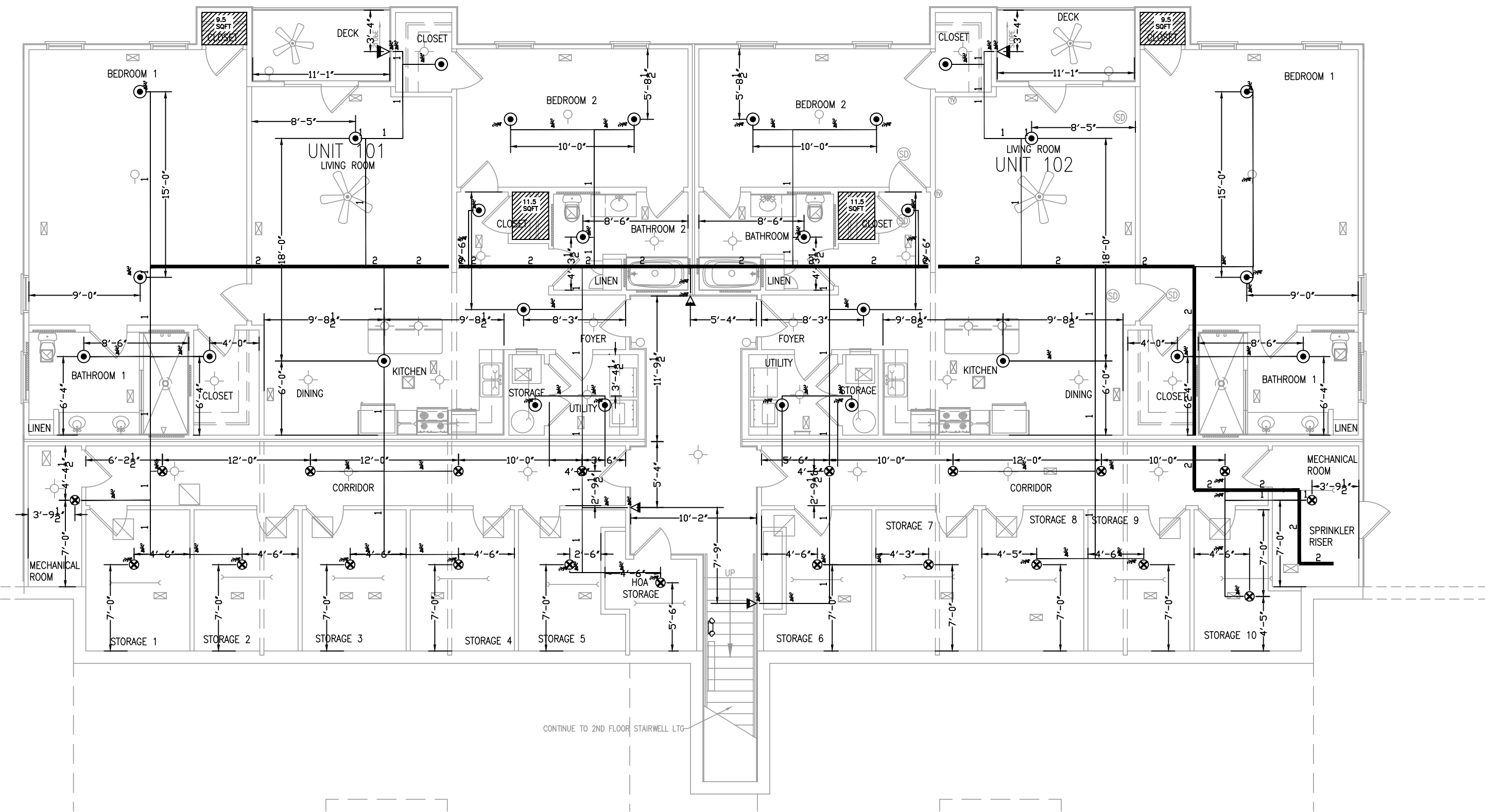
SECTION A-A - 15-00-00 Section

Roofing the 10, Classification Number





1ST FLOOR PIPING PLAN
1/8"-1'-0"



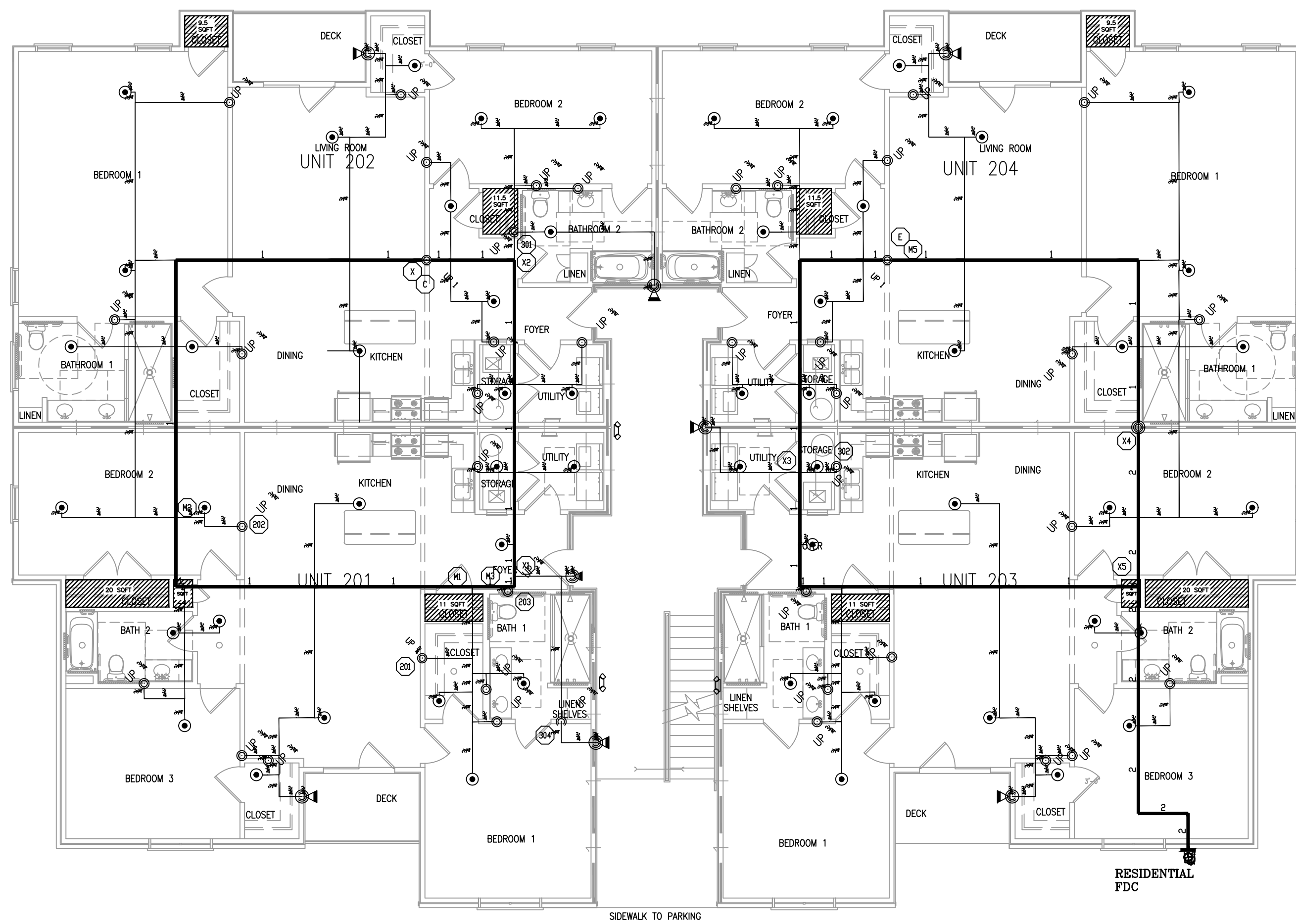
1ST FLOOR REFLECTED CEILING PLAN
1/8"-1'-0"

SPRINKLER SUMMARY										
SYM	TYPE	FINISH	TEMP	ORIF.	"K"	NPT	MANUF.	SIN#	ESCUTCHEON	QTY.
⊗	QR PENDENT	WHITE	175°	1/2"	5.6K	1/2"	VIKING	VK3021	SEMI-RECESSED	21
⊙	QR RES. PENDENT	WHITE	175°	1/2"	4.9K	1/2"	VIKING	VK468	SEMI-RECESSED	28
△	QR DRY SIDEWALL	CHROME	155°	1/2"	5.6K	1/2"	VIKING	VK178	ADJ. STANDARD	5
▽	QR RES. SIDEWALL	WHITE	175°	1/2"	4.2	1/2"	VIKING	VK484	SEMI-RECESSED	0
										0
										0
										0
										0
TOTAL SPRINKLERS THIS PROJECT						177	TOTAL SPRINKLERS THIS DRAWING			54

SPRINKLER LEGEND
NO HEADS REQUIRED
REMOTE AREA

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
JEANNETTE R. BARTH, SET
LEVEL IV - WATER-BASED SYSTEMS LAYOUT
NICET #122591 | NC LICENSE #35920
SUMMIT FIRE & SECURITY
NORTH CAROLINA STATE LICENSE #29733

APPROVING AGENCIES		SYSTEM DESIGN CRITERIA		GENERAL NOTES		REVISIONS		DRAWING #:	
APPROVING AUTHORITY: HARNETT COUNTY	N/A	TYPE SYSTEM: WET	DELUGE	1. Review Protection: The owner is responsible for all decisions regarding protection for all wet systems and portions of other systems containing water.	2. N.C. Protection: The owner is responsible for all decisions regarding protection for all wet systems and portions of other systems containing water.	DATE: 9/14/25	BY: JHB	1-5046-0026	9/14/23
UNDERWRITER: N/A	GENERAL CONTRACTOR: H&H CONTRACTORS INC	MANUAL SPRINKLING: SEE FPD, CALC	HAZARD: RESIDENTIAL	3. N.C. Protection: The owner is responsible for all decisions regarding protection for all wet systems and portions of other systems containing water.	4. Underground protection: The owner is responsible for all decisions regarding protection for all wet systems and portions of other systems containing water.	DATE: 9/27/25	BY: JHB	FAIRWAY POINTE BLDG 12	9/27/25
	ADDRESS: 2919 BREEZEWOOD AVE STE 100	MAXIMUM SPRINKLING: SEE FPD, CALC	HAZARD: RESIDENTIAL	5. This drawing is property of Summit Fire & Security and is not to be duplicated or used for any other project without the written consent of Summit Fire & Security.	6. Hydronic testing will only be performed with water at a temperature of 60°F or higher.	DATE: 9/29/25	BY: JHB	188 GALLERY DR	9/29/25
	CITY & STATE: FAYETTEVILLE, NC 28303	SPRINKLERS: REQUIRED TO BE LOCATED IN THE CENTER OF THE CEILING TILES.	HAZARD: RESIDENTIAL			DATE: 9/29/25	BY: JHB	SPRING LAKE, NC 28390	9/29/25
	PHONE NO.: 910-680-2425	PIPE TYPES AND FITTING TYPES	HAZARD: RESIDENTIAL			DATE: 9/29/25	BY: JHB		9/29/25
	FAX NO.: N/A	LINE FITTINGS: CPVC	HAZARD: RESIDENTIAL			DATE: 9/29/25	BY: JHB		9/29/25
		MAIN PIPING: CPVC	HAZARD: RESIDENTIAL			DATE: 9/29/25	BY: JHB		9/29/25



The floor plan illustrates a symmetrical four-unit residential building. Units 201 and 202 are on the left, while Units 203 and 204 are on the right. Each unit is a two-bedroom, two-bathroom configuration. The layout includes a central hallway, a common staircase, and a central utility area. Each unit features a living room, kitchen, dining area, and storage space. A deck is attached to each unit. The plan also shows a sidewalk leading to parking at the bottom.

UNIT 201 (Bottom Left): Includes Bedroom 1 (10'-0" x 10'-0"), Bedroom 2 (12'-0" x 12'-0"), Bedroom 3 (9'-0" x 9'-0"), Bath 1 (5'-0" x 7'-6"), Bath 2 (9'-0" x 9'-0"), Kitchen, Dining, Living Room, and a Deck. Storage areas include a linen closet and a closet.

UNIT 202 (Top Left): Includes Bedroom 1 (9'-0" x 9'-0"), Bedroom 2 (10'-0" x 10'-0"), Living Room, Kitchen, Dining, and a Deck. Storage areas include a linen closet and a closet.

UNIT 203 (Bottom Right): Includes Bedroom 1 (10'-0" x 10'-0"), Bedroom 2 (12'-0" x 12'-0"), Bedroom 3 (9'-0" x 9'-0"), Bath 1 (5'-0" x 7'-6"), Bath 2 (9'-0" x 9'-0"), Kitchen, Dining, Living Room, and a Deck. Storage areas include a linen closet and a closet.

UNIT 204 (Top Right): Includes Bedroom 1 (9'-0" x 9'-0"), Bedroom 2 (10'-0" x 10'-0"), Living Room, Kitchen, Dining, and a Deck. Storage areas include a linen closet and a closet.

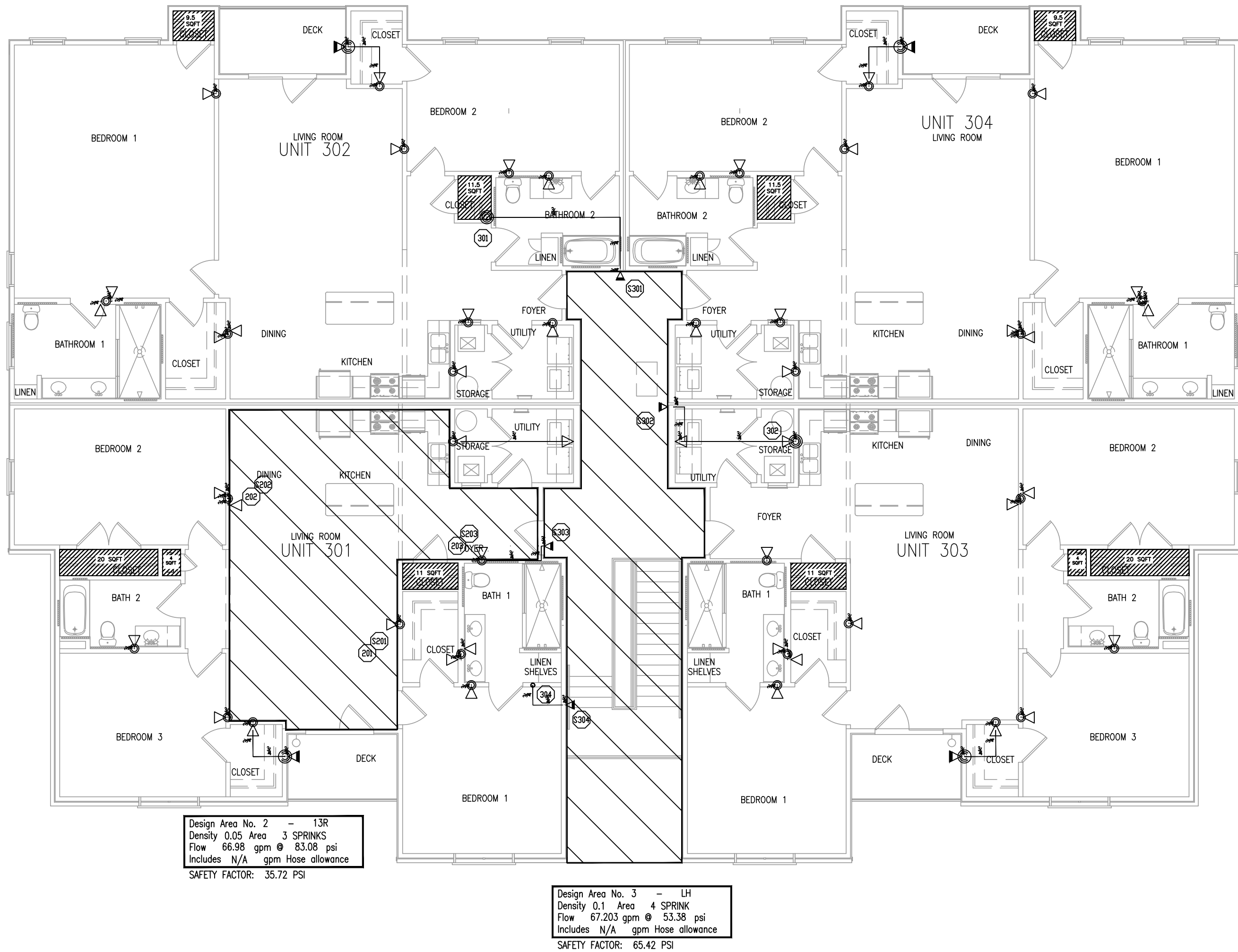
COMMON AREAS: A central hallway, a common staircase, and a central utility area (Storage, Utility, Linen) are located between the units. A sidewalk to parking is shown at the bottom.

SPRINKLER SUMMARY										
SYM	TYPE	FINISH	TEMP	ORIF.	"K"	NPT	MANUF.	SIN#	ESCUTCHEON	QTY.
	QR PENDENT	WHITE	175°	1/2"	5.6K	1/2"	VIKING	VK3021	SEMI-RECESSED	0
◉	QR RES. PENDENT	WHITE	175°	1/2"	4.9K	1/2"	VIKING	VK468	SEMI-RECESSED	56
◉	QR DRY SIDEWALL	CHROME	155°	1/2"	5.6K	1/2"	VIKING	VK178	ADJ. STANDARD	8
◉	QR RES. SIDEWALL	WHITE	175°	1/2"	4.2	1/2"	VIKING	VK484	SEMI-RECESSED	0
			°							0
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			°							0
TOTAL SPRINKLERS THIS PROJECT						177	TOTAL SPRINKLERS THIS DRAWING			64

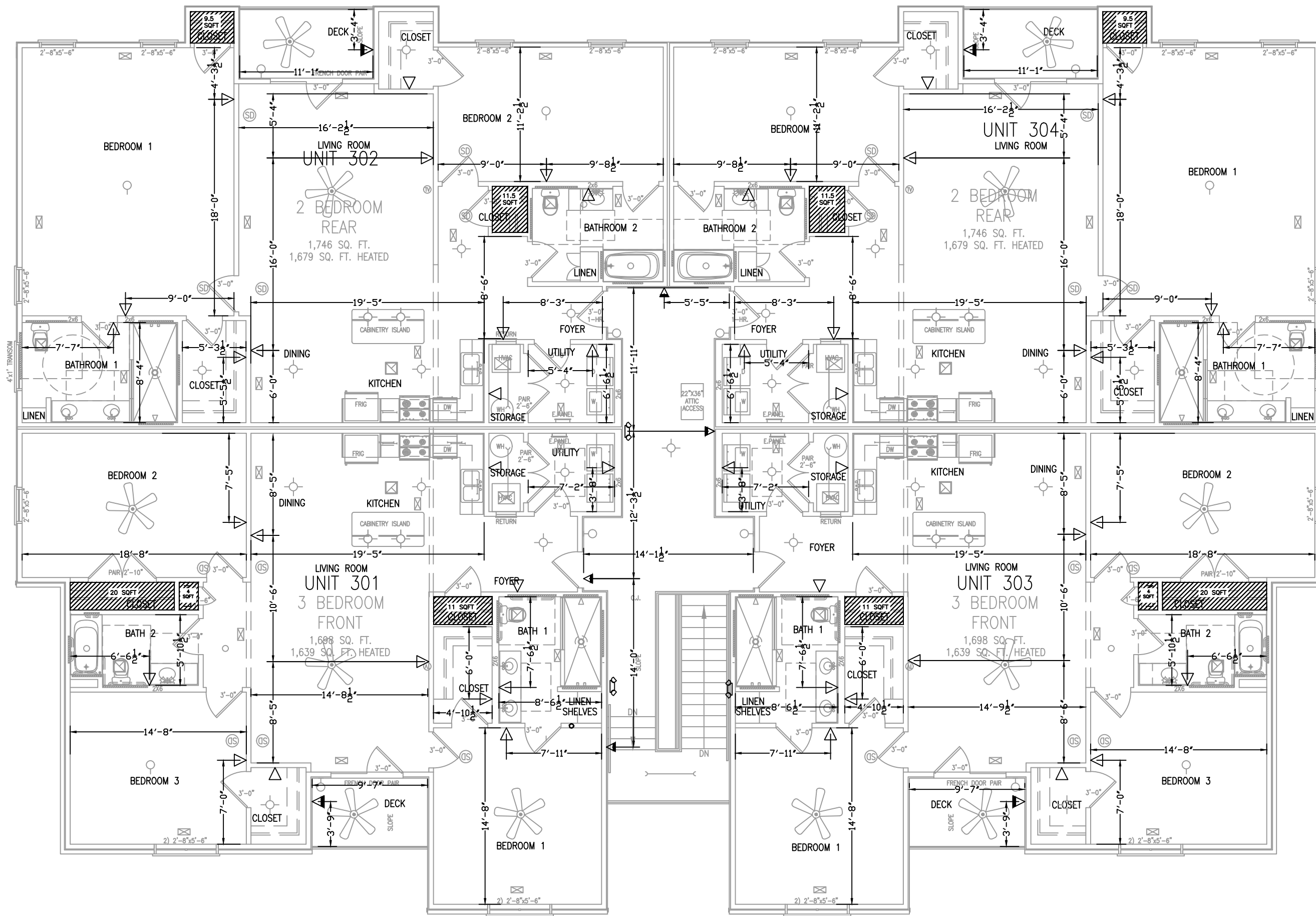
I HAVE REVIEWED THESE PLANS AND
CERTIFY THAT THEY COMPLY WITH THE
ADOPTED NFPA STANDARDS.

JEANNETTE R. BARTH, SET
LEVEL IV - WATER-BASED SYSTEMS LAYOUT
NICET #122591 | NC LICENSE - #35920
SUMMIT FIRE & SECURITY
NORTH CAROLINA STATE LICENSE #29733

[illegible]



3RD FLOOR PIPING PLAN
1/8"=1'-0"



SPRINKLER SUMMARY										
SYM	TYPE	FINISH	TEMP	ORIF.	"K"	NPT	MANUF.	SIN#	ESCUTCHEON	QTY.
⊗	QR PENDENT	WHITE	175°	1/2"	5.6K	1/2"	VIKING	VK3021	SEMI-RECESSED	0
⊙	QR RES. PENDENT	WHITE	175°	1/2"	4.9K	1/2"	VIKING	VK468	SEMI-RECESSED	0
△	QR DRY SIDEWALL	CHROME	155°	1/2"	5.6K	1/2"	VIKING	VK178	ADJ. STANDARD	9
▽	QR RES. SIDEWALL	WHITE	175°	1/2"	4.2	1/2"	VIKING	VK484	SEMI-RECESSED	50
					0					0
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TOTAL SPRINKLERS THIS PROJECT						177	TOTAL SPRINKLERS THIS DRAWING			59

SPRINKLER LEGEND

- NO HEADS REQUIRED
REMOTE AREA

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.

JRB

JEANNETTE R. BARTH, SET
LEVEL IV - WATER-BASED SYSTEMS LAYOUT
NICET #122591 | NC LICENSE #435920
SUMMIT FIRE & SECURITY
NORTH CAROLINA STATE LICENSE #29733

APPROVING AGENCIES		SYSTEM DESIGN CRITERIA		GENERAL NOTES		REVISIONS		DRAWING #	
APPROVING AUTHORITY: HARNETT COUNTY	N/A	TYPE SYSTEM: WET	DELUGE	1. NFPA 13: Standard for the Installation of Sprinkler Systems, 2019 Edition.	2. NFPA 13: Standard for the Installation of Sprinkler Systems, 2019 Edition.	BY	DATE	160 HERITAGE COMMERCE COURT WAKE FOREST, NC 27587 PHONE: 919.652.5201	ENGINEERING & CONSULTING SUMMIT FIRE & SECURITY
UNDERWRITER: N/A	GENERAL CONTRACTOR: H&H CONTRACTORS INC	ACCURACY: SEE FPD. CALC. SPRINKLERS ARE REQUIRED TO BE LOCATED IN THE CENTER OF THE CEILING TILES.	HAZARD: RESIDENTIAL	3. M.C. Protection: The owner is responsible for all decisions regarding protection of the system from damage or tampering.	4. Underground piping to be provided to Summit prior to connection. Summit is not responsible for damage to its system or components due to delays entering the system from the building.	1	9/14/25		LEVEL 3 PIPING AND RCP
	ADDRESS: 2819 BREEZEWOOD AVE STE 100			5. This drawing is property of Summit Fire & Security and is not to be duplicated or used for any other project without the written consent of Summit Fire & Security.	6. Hydronic testing will only be performed with water and is dependent on adequate temperature. Any other form of testing is excluded.	2	9/27/25		FAIRWAY POINTE BLDG 12
	CITY & STATE: FAYETTEVILLE, NC 28303					3	9/27/25		188 GALLERY DR
	PHONE NO.: 910-680-2425					4	9/29/25		SPRING LAKE, NC 28390
	FAX NO.: N/A					5			
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