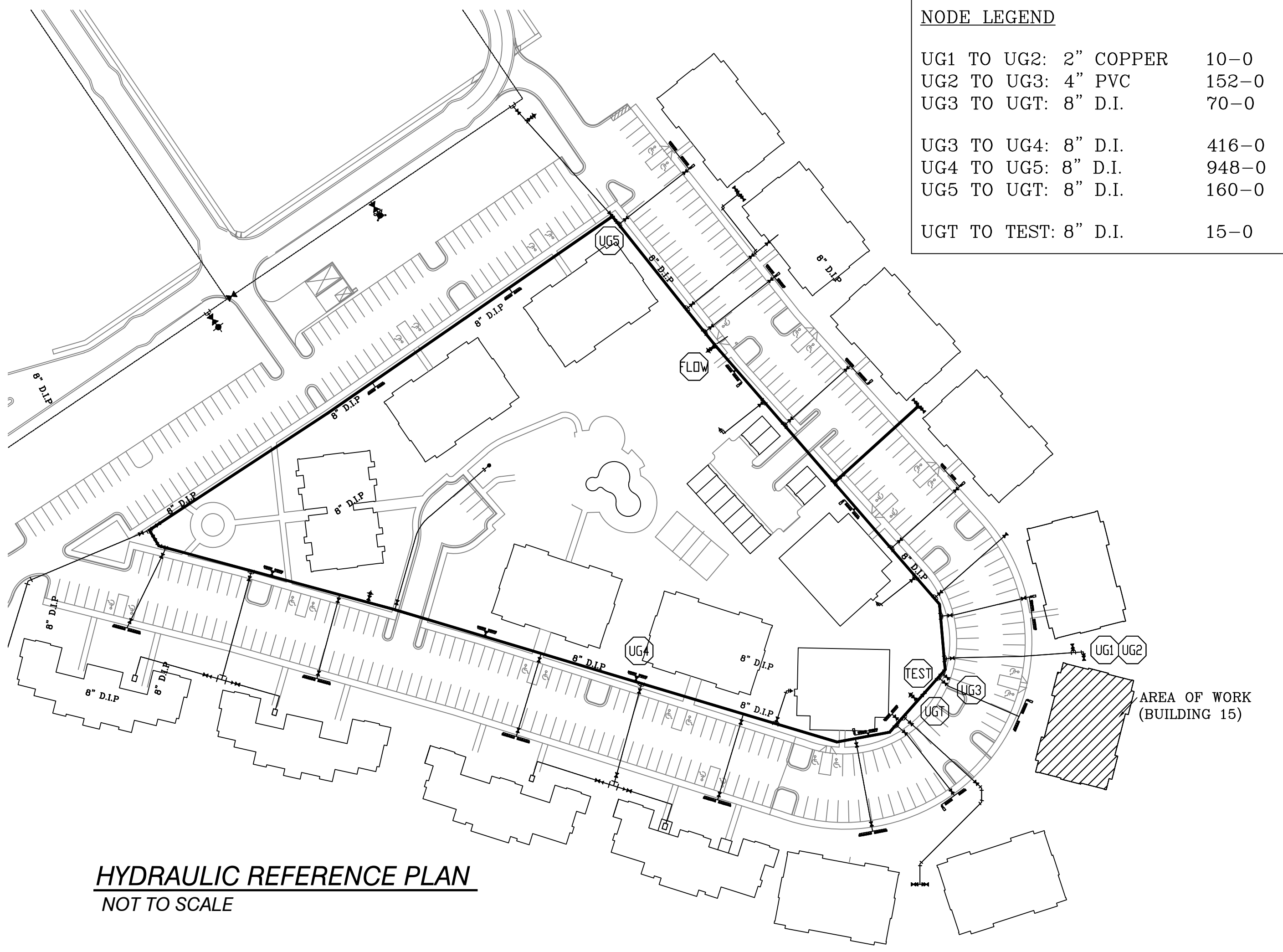


GENERAL NOTES

- 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.
- 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.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- SPRINKLER HEADS ARE SPACED PER MANUFACTURERS CUTSHEETS. FAST RESPONSE HEADS SHALL BE USED.
- ALL PIPE SHALL BE APPROVED CPVC LISTED FOR FIRE PROTECTION USE.
- SPRINKLER SYSTEM IS WET PIPE TYPE FOR ALL FLOORS.
- LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.
- SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ.FT. AND LESS PER NFPA 13R - 6.6.2
- SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES PER NFPA 13R - 6.6.3
- 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
- PIPING TO BE INSTALLED ON CONDITIONED SIDE OF WALL AND CEILINGS. POLYPLASTIC AND INSULATION SHALL BE INSTALLED BY OTHERS.
- 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.

SCOPE OF WORK

- 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 WALL 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.

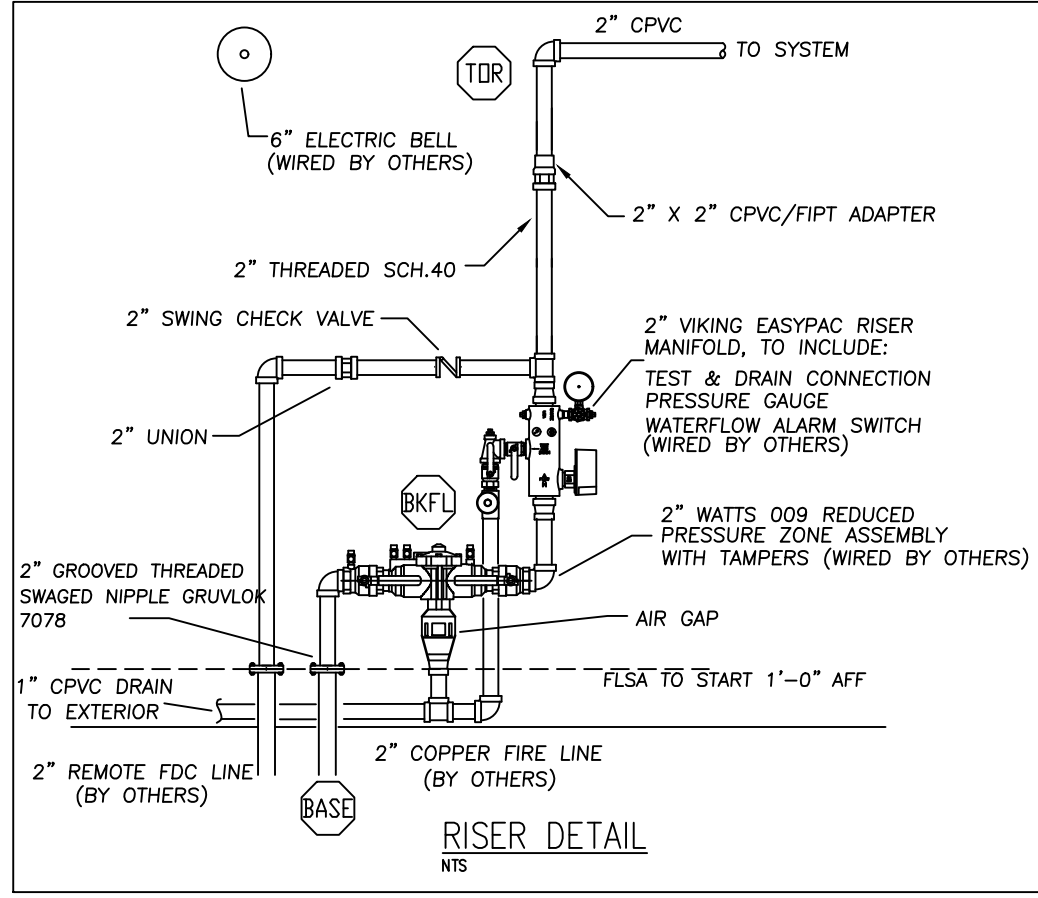


NODE LEGEND

UG1 TO UG2:	2" COPPER	10-0
UG2 TO UG3:	4" PVC	152-0
UG3 TO UGT:	8" D.I.	70-0
UG3 TO UG4:	8" D.I.	416-0
UG4 TO UG5:	8" D.I.	948-0
UG5 TO UGT:	8" D.I.	160-0
UGT TO TEST:	8" D.I.	15-0

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	
										0	
										0	
TOTAL SPRINKLERS THIS PROJECT									177	TOTAL SPRINKLERS THIS DRAWING	54



Sprinkler Design Data

FAIRWAY POINT BUILDINGS 15	System: WET
Project Street Address: GALLERY DR, SPRING LAKE NC 28390	Sys. Sq. Ft.: VARIES
Suite: N/A	Floor: VARIES
Designed by: I. BURROWS	Phone: (919) 872-3250
Occupancy: RESIDENTIAL & STORAGE	Hazard: 13R / OH
	Total Bldg. Hgt.: VARIES

Design Summary

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	OH	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	66.987 GPM	67.203 GPM		
PSI Required	89.98 PSI	82.353 PSI	52.52.652 PSI		
Safety factor @ Test	22.55 PSI	36.45 PSI	66.14 PSI		
Dry Sys. Volume (gal)	N/A	N/A	N/A		

Water Supply Information

Tested by	SUMMIT FIRE & SECURITY	Date/Time	4/9/23	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

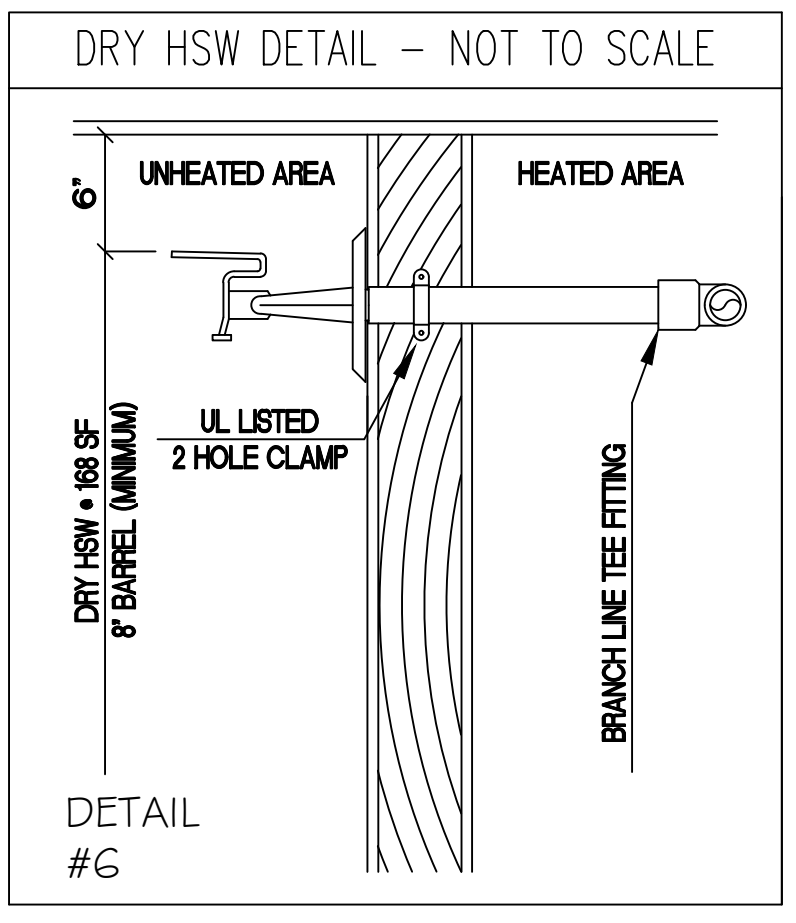
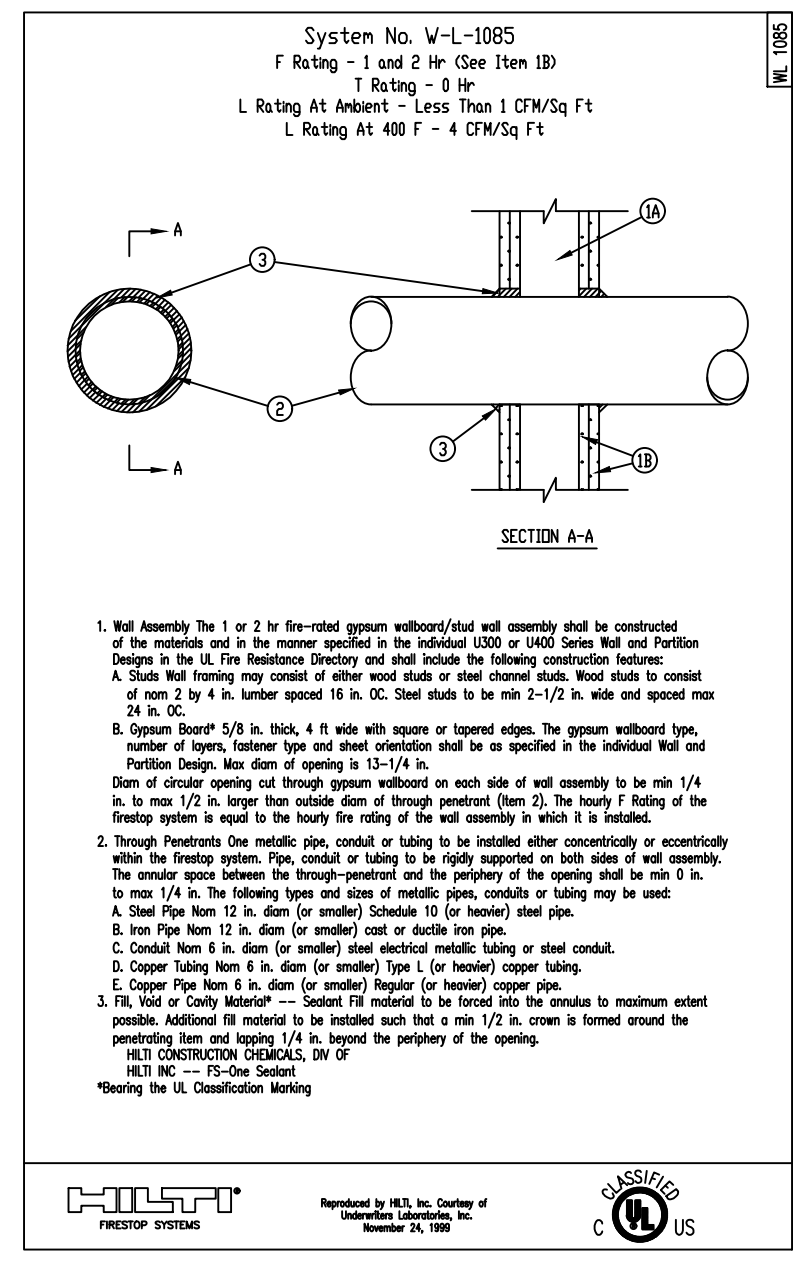
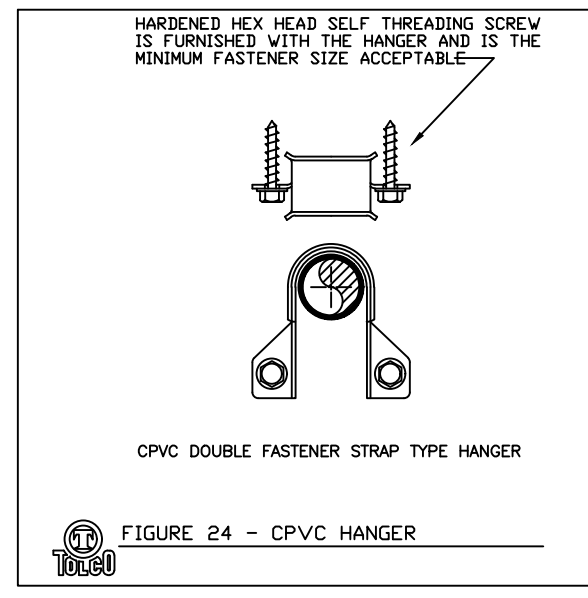
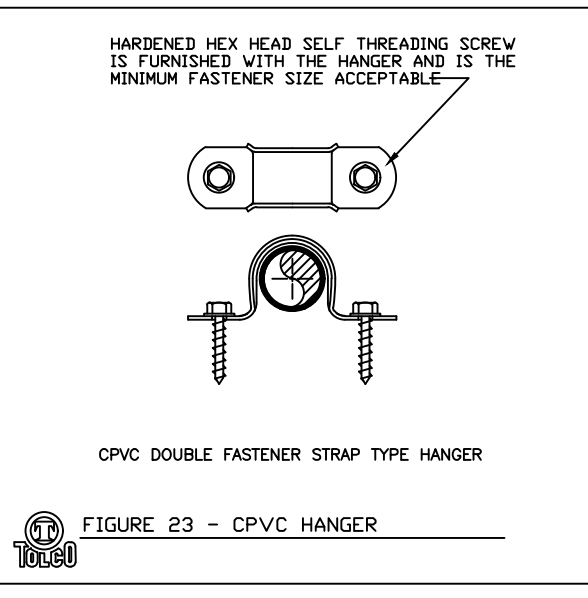
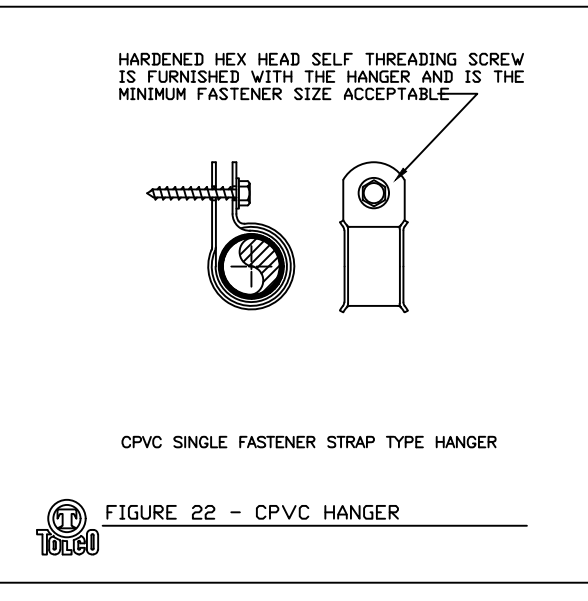
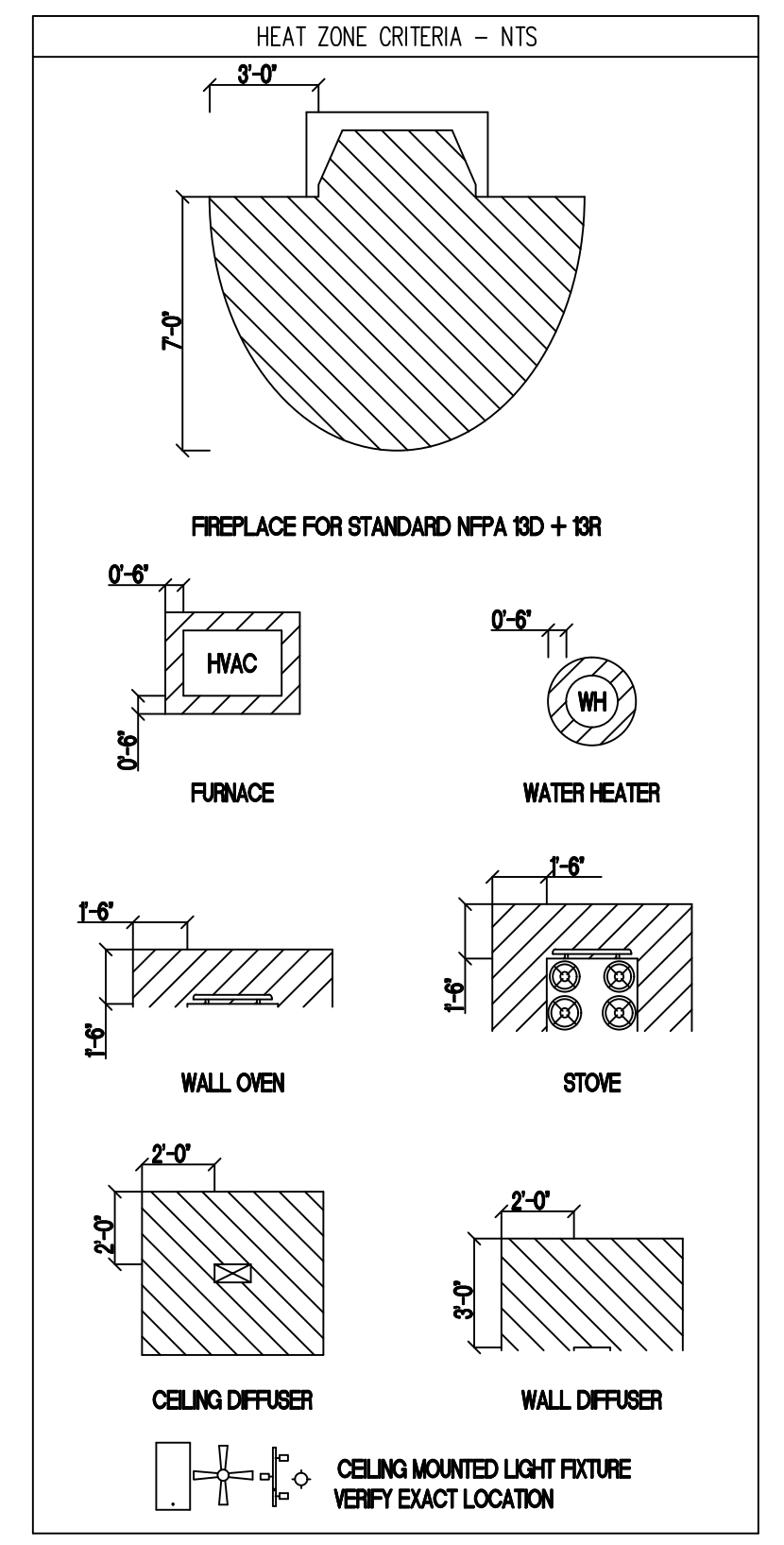
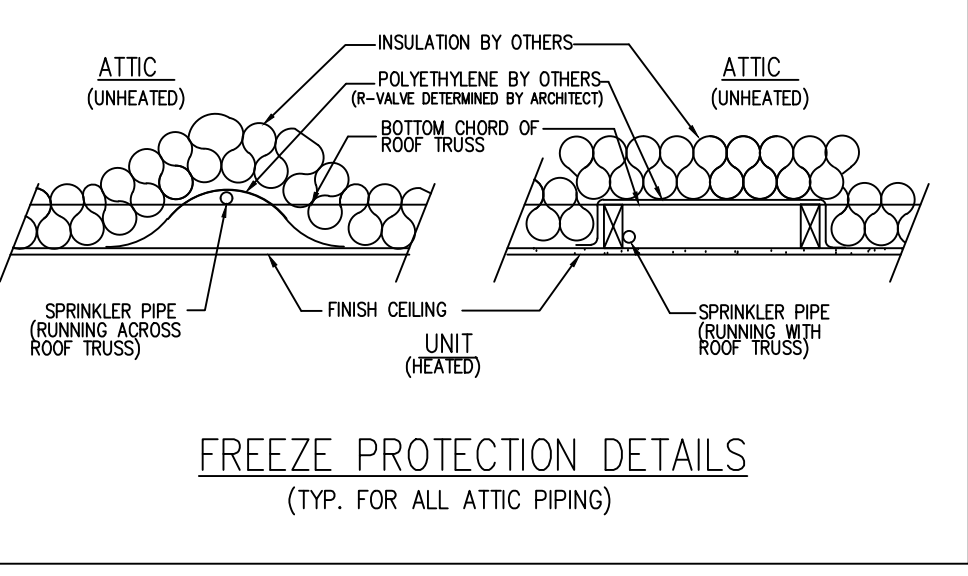
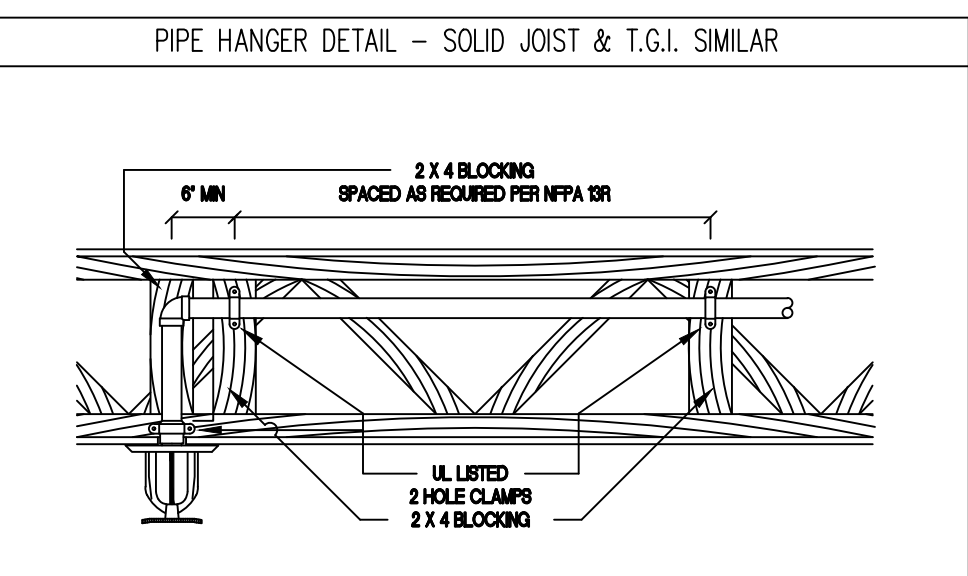


TABLE 1

PIPE SIZE	SYSTEM PRESSURE	MAXIMUM SUPPORT SPACING DISTANCE	END LINE SPRINKLER HEAD DROP ELBOW
3/4"	< 100 psi	> 100 psi	6'
1"	12"	9"	6'
1-1/4"	16"	12"	6'
1-1/2"-3"	24"	12"	6'

TABLE 2

PIPE SIZE	SYSTEM PRESSURE	MAXIMUM SUPPORT SPACING DISTANCE	INLINE SPRINKLER HEAD DROP TEE
3/4"	< 100 psi	> 100 psi	3'
1"	5'	4'	3'
1-1/4"	6'	5'	3'
1-1/2"-2"	7'	7'	3'

BLAZEMASTER 2000 PIPE

NOMINAL SIZE	MAX SPACING
3/4" (20.0)	5.9' (1.7)
1" (25.0)	6.0' (1.8)
1-1/4" (32.0)	6.5' (2.0)
1-1/2" (40.0)	7.0' (2.1)
2" (50.0)	8.0' (2.4)
2-1/2" (65.0)	9.0' (2.7)
3" (80.0)	10.0' (3.0)

APPROVING AGENCIES

APPROVING AUTHORITY: HARNETT COUNTY

UNDERWRITER: N/A

GENERAL CONTRACTOR: H&H CONSTRUCTORS INC. 2819 BREEZEWOOD AVE STE 100 FAYETTEVILLE, NC 28303 PHONE NO.: 910-560-2425 FAX NO.: N/A

SYSTEM DESIGN CRITERIA

TYPE SYSTEM: WET

HAZARD: RESIDENTIAL - 13R

MAXIMUM SPACING: SEE BLDG. CODE

SPRINKLERS: ARE REQUIRED TO BE LOCATED IN THE CENTER OF THE CEILING TRUSSES.

PIPE TYPES AND FITTING TYPES: PIPE FITTINGS: CPVC

MAIN PIPING: CPVC

GENERAL NOTES

1. Fire Protection: The contractor shall be responsible for obtaining all necessary permits and approvals for all work systems and portions of other systems containing water.

2. A.C.C. Protection: The contractor shall be responsible for all decisions regarding protection of existing work.

3. M.C.C. Protection: The contractor shall be responsible for all decisions regarding protection of existing work.

4. Underground piping to be installed shall be installed in a trench, shall be protected with a minimum of 18" of concrete or equivalent protection.

5. This drawing is the 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. Materials testing will only be performed with water at an appropriate temperature. Any other form of testing is excluded.

ENGINEERING & CONSULTING: SUMMIT FIRE & SECURITY

INSULATION: SUMMIT FIRE & SECURITY

INSPECTION & TESTING: SUMMIT FIRE & SECURITY

SERVICE MAINTENANCE: SUMMIT FIRE & SECURITY

DATE: 8/7/23

DRAWING #: 15 OF 4

FAIRWAY POINTE BLDG 15

FAIRWAY POINTE DR

ANDERSON CREEK, NC 28390

JEANETTE R. BARTH, SET

LEVEL IV - WATER-BASED SYSTEMS LAYOUT

NICET #122591 | NC LICENSE - #35920

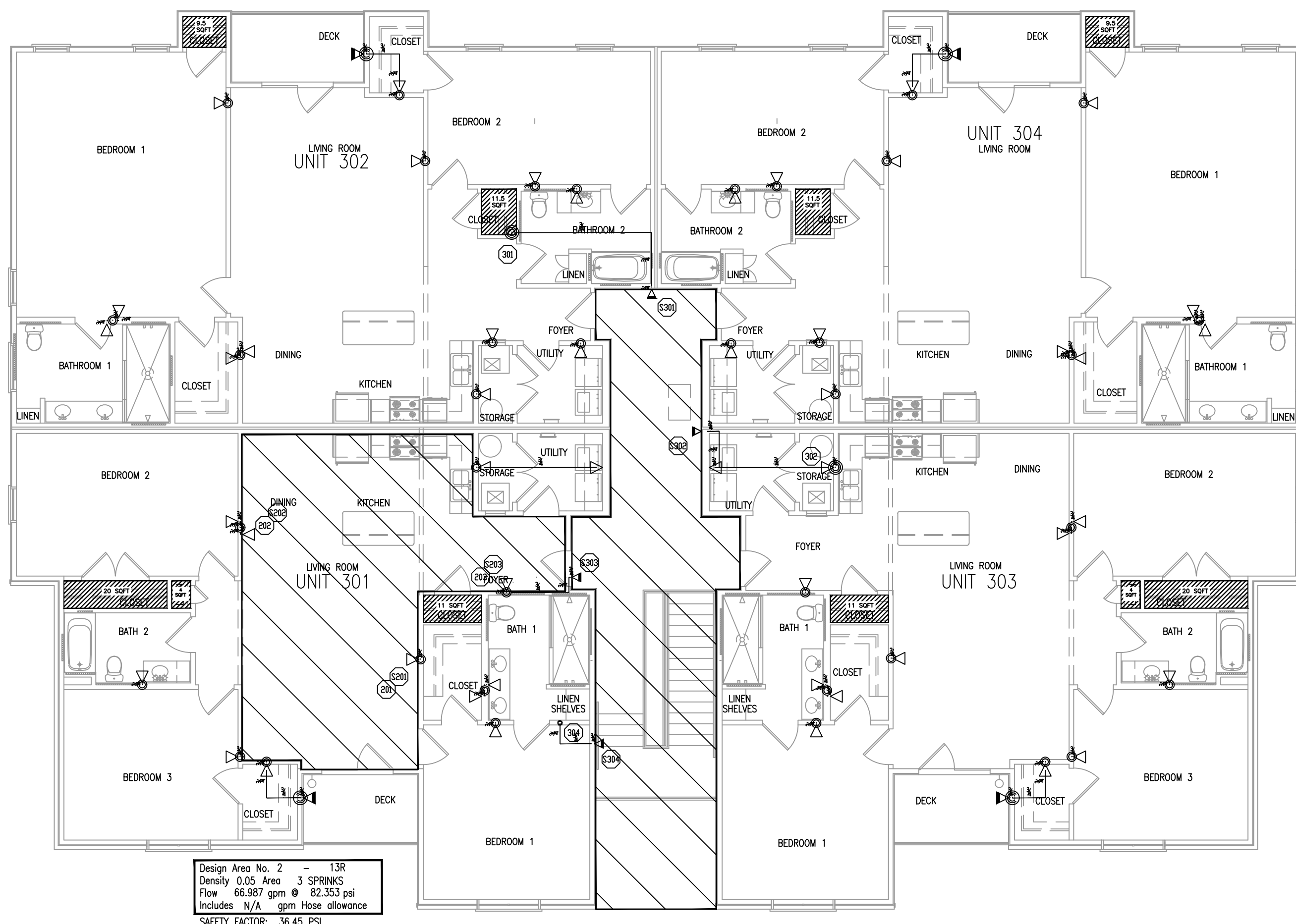
SUMMIT FIRE & SECURITY

NORTH CAROLINA STATE LICENSE #29733

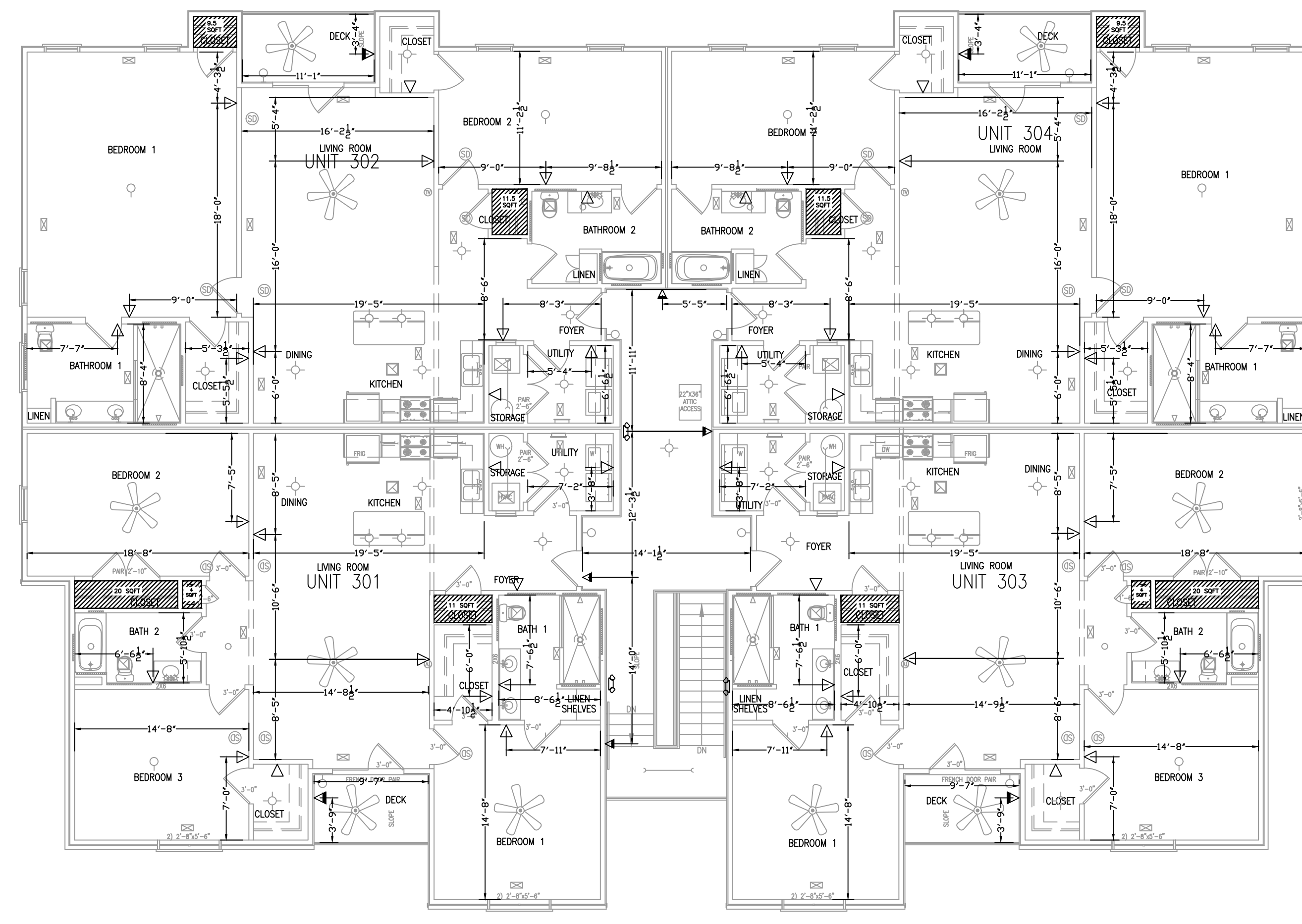
SPRINKLER LEGEND

- NO HEADS REQUIRED
- REMOTE AREA

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	8	
▽	QR RES. SIDEWALL	WHITE	175°	1/2"	4.2	1/2"	VIKING	VK484	SEMI-RECESSED	50	
										0	
										0	
										0	
										0	
										0	
										0	
TOTAL SPRINKLERS THIS PROJECT							177	TOTAL SPRINKLERS THIS DRAWING			58



BLDG 15 - 3RD FLOOR PIPING PLAN
1/8"=1'-0"



BLDG 15 - 3RD FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"

<p>170 BOUNDARY DRIVE RALEIGH, NC 27603 PHONE 919/6525200</p>		<p>APPROVING AGENCIES APPROVING AUTHORITY: HARNETT COUNTY UNDERWRITER: N/A GENERAL CONTRACTOR: H&H CONSTRUCTORS, INC. ADDRESS: 2919 BRIDGEWOOD AVE STE 100 CITY & STATE: FAYETTEVILLE, NC 28303 PHONE NO.: 910-560-2425 FAX NO.: N/A</p>	
<p>ENGINEERING & CONSULTING INSTALLATION INSPECTION & TESTING SERVICE & MAINTENANCE</p>		<p>SYSTEM DESIGN CRITERIA TYPE SYSTEM: WET INFILTRATION: NO HAZARD: RESIDENTIAL MAXIMUM SPRINKLER SPACING: SEE H.D. CALC. PIPE TYPES AND FITTINGS TYPES: CPVC LINE FITTINGS: CPVC MAIN FITTINGS: CPVC</p>	
<p>DATE: 8/7/23 DRAWN BY: J. BURROWS SCALE: AS NOTED</p>		<p>GENERAL NOTES 1. Fire Protection: This plan shows the layout of the fire protection system for the building. It is intended to be used in conjunction with the fire protection code and the manufacturer's instructions for the equipment. 2. N.C. Protection: The owner is responsible for all decisions regarding the fire protection system. The contractor is responsible for the installation and maintenance of the system. 3. The drawings shall not be used for any other purpose without the written consent of the designer. 4. Under no circumstances shall the contractor be held responsible for any damage to the building or its contents due to fire or other causes. 5. This drawing is the property of Summit Fire & Security and is not to be duplicated or used in any other project without the written consent of Summit Fire & Security. 6. Materials and workmanship shall be in accordance with the manufacturer's instructions and the applicable code requirements.</p>	
<p>PROJECT: BLDG 15 - LEVEL 3 PIPING AND REFLECTED CEILING PLAN SUBMITTAL TO: A/E/H</p>		<p>DRAWING NO.: 4 OF 4</p>	

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

J. Barh

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

