

GENERAL NOTES:

- RANGER FIRE'S WORK SHALL CONSIST OF ALL NECESSARY LABOR AND MATERIAL TO DESIGN AND INSTALL NEW AUTOMATIC FIRE SPRINKLER SYSTEMS IN THE REFERENCED BUILDINGS.
- RANGER FIRE EXCLUDES ALL ELECTRICAL WORK.
- ALL DESIGN AND INSTALLATION SHALL CONFORM TO 2018 IFC/IBC WITH AMENDMENTS, THE 2016 EDITIONS OF NFPA 13, NFPA 13R, NFPA 14 AND ALL COLUMBIA FIRE CODE REQUIREMENTS.
- ALL MATERIAL TO BE UL/FM APPROVED FOR FIRE SERVICES.
- PIPING MATERIAL SHALL CONSIST OF THE FOLLOWING:
RISER ROOM: BLACK SCH. 10 & 40 STEEL PIPE W/ GROOVED & THREADED FITTINGS (U.O.N.)
UNITS: CPVC PIPE W/ CPVC FITTINGS (U.O.N.)
STANDPIPE: BLACK SCH. 10 & 40 STEEL PIPE W/ GROOVED & THREADED FITTINGS (U.O.N.)
FIRST FLOOR CLUB/AMENITY: CPVC PIPE W/ CPVC FITTINGS (U.O.N.)
- OWNER OR TENANT IS RESPONSIBLE FOR MAINTAINING ADEQUATE THERMOSTATICALLY CONTROLLED HEAT (MIN. 40 DEGREES F.) THROUGHOUT THE AREA PROTECTED BY A WET SYSTEM.
- SPRINKLER EQUIPMENT ROOM AND EQUIPMENT COMPONENTS SHALL BE PROPERLY IDENTIFIED.
- ALL HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE HANGER LISTING REQUIREMENTS.
- ALL SYSTEMS SHALL BE TESTED AT 200 PSI FOR 2 HOURS AND WITNESSED BY A REPRESENTATIVE OF LEE'S SUMMIT FIRE DEPARTMENT. ANY LEAKS SHALL BE REPAIRED.
- THE SYSTEMS HAVE BEEN HYDRAULICALLY CALCULATED PER NFPA 13R AND NFPA 14 REQUIREMENTS.
- GENERAL CONTRACTOR TO FULLY INSULATE TRUSS SPACES ABOVE NFPA 13 SECTION.
- SCOPE STARTING AT 1'-0" AFF AT RISER SPIGOT (FROM OTHERS).

UNIT INSTALLATION / REVIEW NOTES:

- ALIGN ALL SIDEWALL SPRINKLER DEFLECTORS PARALLEL TO CEILING SLOPE (IF ANY).
- FIELD VERIFY ALL SPRINKLER AND PIPE LOCATIONS PRIOR TO INSTALLATION.
- ALL BRANCHLINE PIPING IS 3/4" CPVC (U.O.N.).
- ROUTE AUXILLARY DRAINS (AS NEEDED) FOR UNFORSEEN TRAPPED AREAS.
- FIRE CAULK ALL FIRE RATED WALLS THAT ARE PENETRATED.
- ALL CPVC PIPE DIMENSIONS ARE CENTER OF THE FITTING.

BUILDING CONSTRUCTION DATA:

OCCUPANCY TYPE
HOTEL UNITS: R-1
UNCONCENTRATED: A-2
SWIMMING POOL: A-4
BACK OF HOUSE: B

CONSTRUCTION TYPE
HOTEL: V-A

SPRINKLER TYPE
HOTEL UNITS: 2016 NFPA 13R
UNCONCENTRATED,
BACK OF HOUSE: 2016 NFPA 13

OCCUPANCY CHART (NFPA 13)			
FITNESS	LIGHT HAZARD	.10 DENSITY	
LOBBY	LIGHT HAZARD	.10 DENSITY	
OFFICE	LIGHT HAZARD	.10 DENSITY	
GUEST LAUNDRY	ORDINARY HAZARD	.15 DENSITY	

OCCUPANCY CHART (NFPA 13R)			
BEDROOM	LIGHT HAZARD	.05 DENSITY	
LIVING ROOM	LIGHT HAZARD	.05 DENSITY	
BATHROOM	LIGHT HAZARD	.05 DENSITY	
CORRIDOR	LIGHT HAZARD	.10 DENSITY	

HANGER SPACING CHART

TABLE 9.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)									
NOMINAL PIPE SIZE (IN.)	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

FIGURE A.9.2.3.4 DISTANCE FROM SPRINKLER TO HANGER

36" FOR 1"
48" FOR 1 1/4"
60" FOR 1 1/2" OR LARGER

MAX. THEN EXTEND HERE

GREATER THAN 36" FOR 1"
GREATER THAN 48" FOR 1 1/4"
GREATER THAN 60" FOR 1 1/2" OR LARGER

NOTE: WHERE PRESSURES EXCEED 100 PSI THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP HANGING AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES FOR STEEL PIPE.

TABLE 9.1.2.1 HANGER ROD SIZES			
PIPE SIZE	DIAM. OF ROD	PIPE SIZE	DIAM. OF ROD
UP TO AND INCLUDING 4"	3/8"	6 AND 8	1/2"

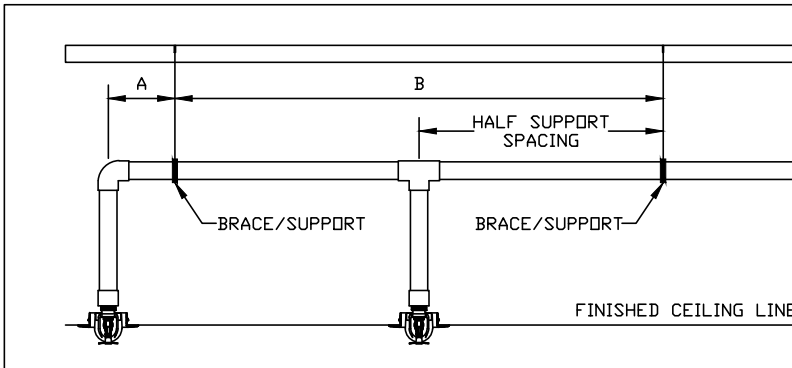
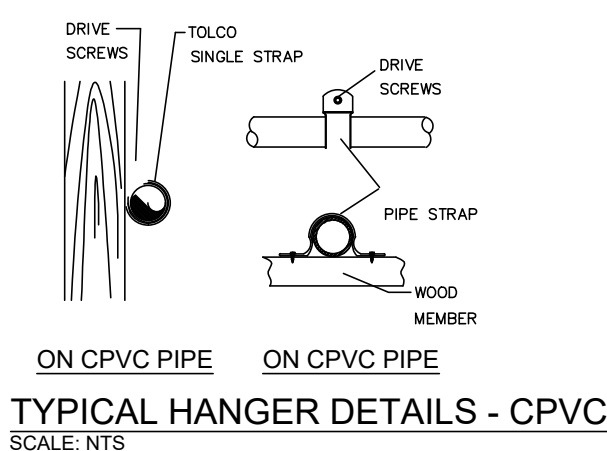
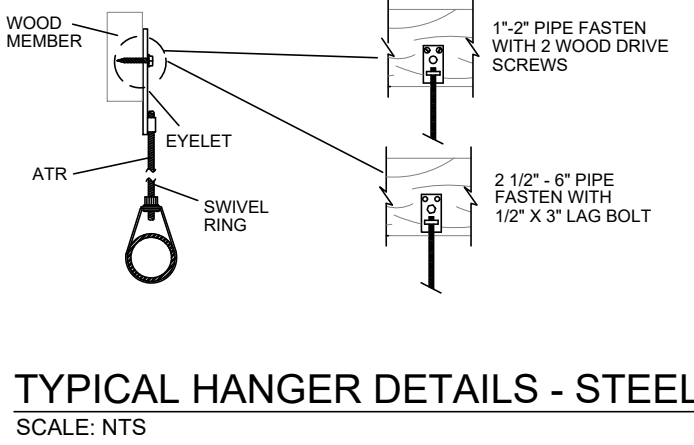
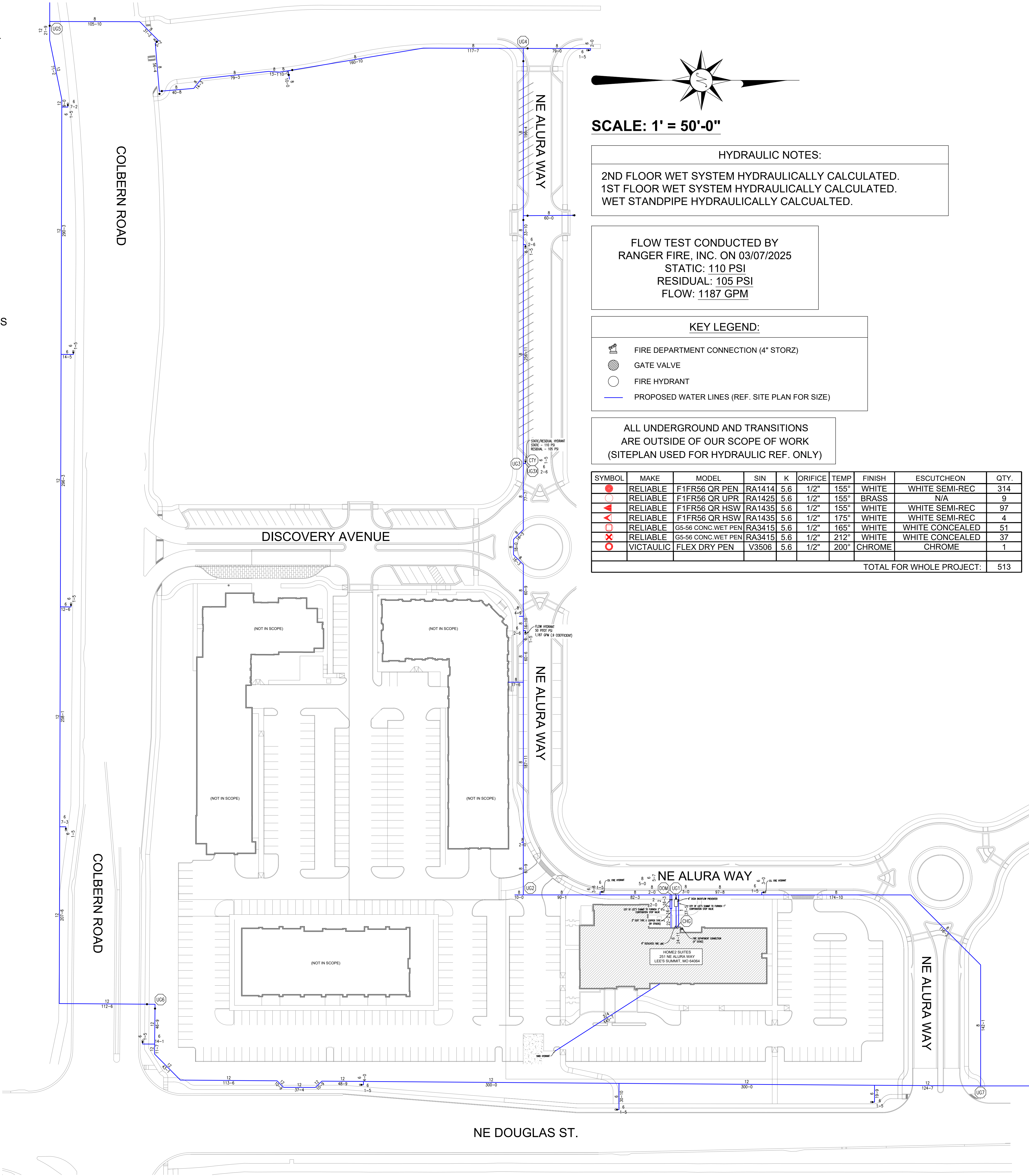


TABLE A MAXIMUM SUPPORT SPACING DISTANCE END LINE SPRINKLER HEAD DROP ELBOW		
NOMINAL PIPE SIZE (IN.)	LESS THAN 100 PSI	MORE THAN 100 PSI
1"	9'	6'
1 1/2"	12'	9'
2"	16'	12'
2 1/2"-3"	24'	12'

TABLE B MAXIMUM SUPPORT SPACING DISTANCE INLINE SPRINKLER HEAD DROP TEE		
NOMINAL PIPE SIZE (IN.)	LESS THAN 100 PSI	MORE THAN 100 PSI
1"	4'	3'
1 1/2"	5'	4'
2"	6'	5'
2 1/2"-3"	7'	7'



SCALE: 1" = 50'-0"

HYDRAULIC NOTES:

2ND FLOOR WET SYSTEM HYDRAULICALLY CALCULATED.
1ST FLOOR WET SYSTEM HYDRAULICALLY CALCULATED.
WET STANDPIPE HYDRAULICALLY CALCULATED.

FLOW TEST CONDUCTED BY
RANGER FIRE, INC. ON 03/07/2025
STATIC: 110 PSI
RESIDUAL: 105 PSI
FLOW: 1187 GPM

KEY LEGEND:

- FIRE DEPARTMENT CONNECTION (4" STORZ)
- GATE VALVE
- FIRE HYDRANT
- PROPOSED WATER LINES (REF. SITE PLAN FOR SIZE)

ALL UNDERGROUND AND TRANSITIONS
ARE OUTSIDE OF OUR SCOPE OF WORK
(SITEPLAN USED FOR HYDRAULIC REF. ONLY)

SYMBOL	MAKE	MODEL	SIN	K	ORIFICE	TEMP	FINISH	ESCUTCHEON	QTY.
●	RELIABLE	F1FR56 QR PEN	RA1414	5.6	1/2"	155°	WHITE	WHITE SEMI-REC	314
●	RELIABLE	F1FR56 QR UPR	RA1425	5.6	1/2"	155°	BRASS	N/A	9
▲	RELIABLE	F1FR56 QR HSW	RA1435	5.6	1/2"	155°	WHITE	WHITE SEMI-REC	97
▲	RELIABLE	F1FR56 QR HSW	RA1435	5.6	1/2"	175°	WHITE	WHITE SEMI-REC	4
○	RELIABLE	G5-56 CONC. WET PEN	RA3415	5.6	1/2"	165°	WHITE	WHITE CONCEALED	51
○	RELIABLE	G5-56 CONC. WET PEN	RA3415	5.6	1/2"	212°	WHITE	WHITE CONCEALED	37
○	VICTAULIC	FLEX DRY PEN	V3506	5.6	1/2"	200°	CHROME	CHROME	1
TOTAL FOR WHOLE PROJECT:									513

OWNER:
INTENSIC DEVELOPMENT
3822 ENDEAVOR AVENUE, SUITE 01
COLUMBIA, MO 65501
(637) 881-0280

OWNER:
INTENSIC DEVELOPMENT
3822 ENDEAVOR AVENUE, SUITE 01
COLUMBIA, MO 65501
(637) 881-0280

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REVISIONS
10/01/25 - DESIGN CHANGES TO COMPLY WITH HILTON ARCHITECTURE DESIGN & CONSULTANTS
10/14/25 - LEE'S SUMMIT PLAN REVIEW COMMENTS

AS SHOWN
DRAWN BY:
CHECKED BY:
DATE:
DWG. NO.

R.C.
J.G.
10/17/2025
FPI

Multi-Family
CONTRACT # FV425-013

SYMBOL

MAKE

MODEL

SIN

K

ORIFICE

TEMP

FINISH

ESCUTCHEON

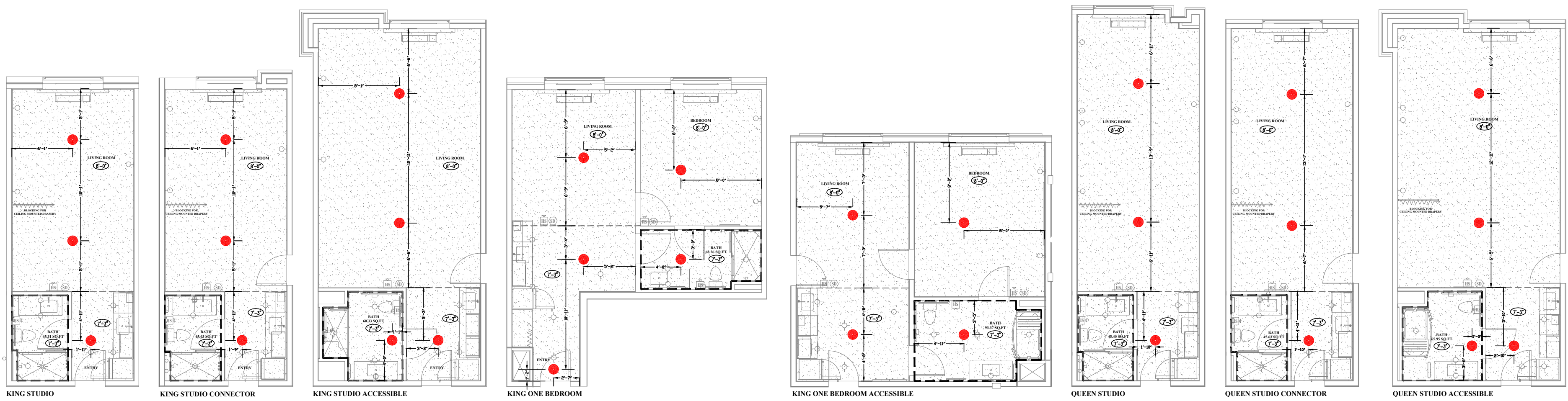
QUANTITY

TOTAL HEADCOUNT SHOWN ON FLOOR PLAN

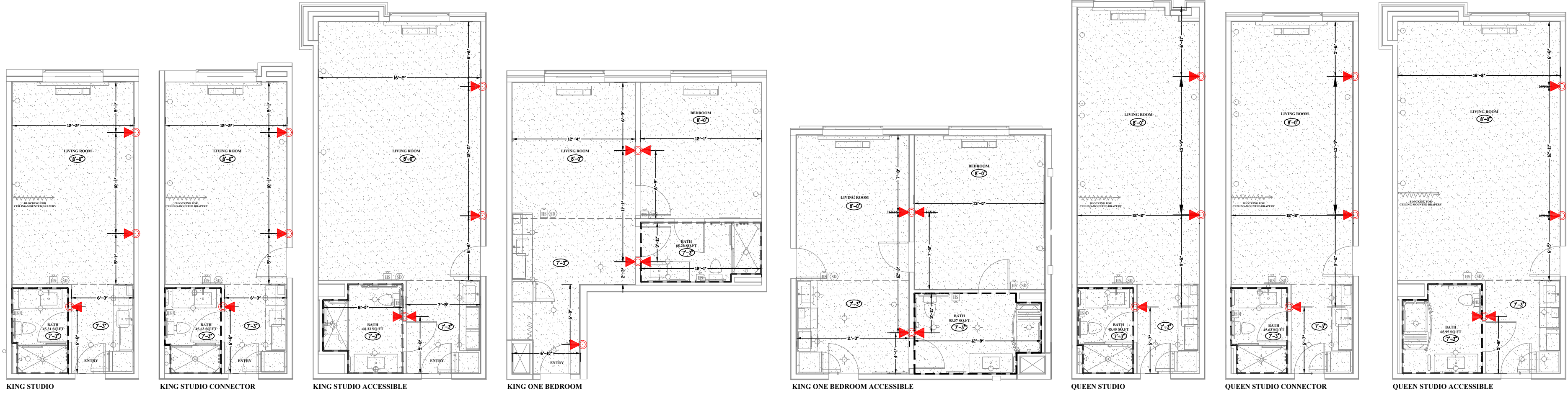
RANGER FIRE

HOME'S SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MO 64064

Ranger Fire, Inc.
1000 South Main Street, Suite 150
Grapevine, Texas 76051
Phone: 817-410-9070

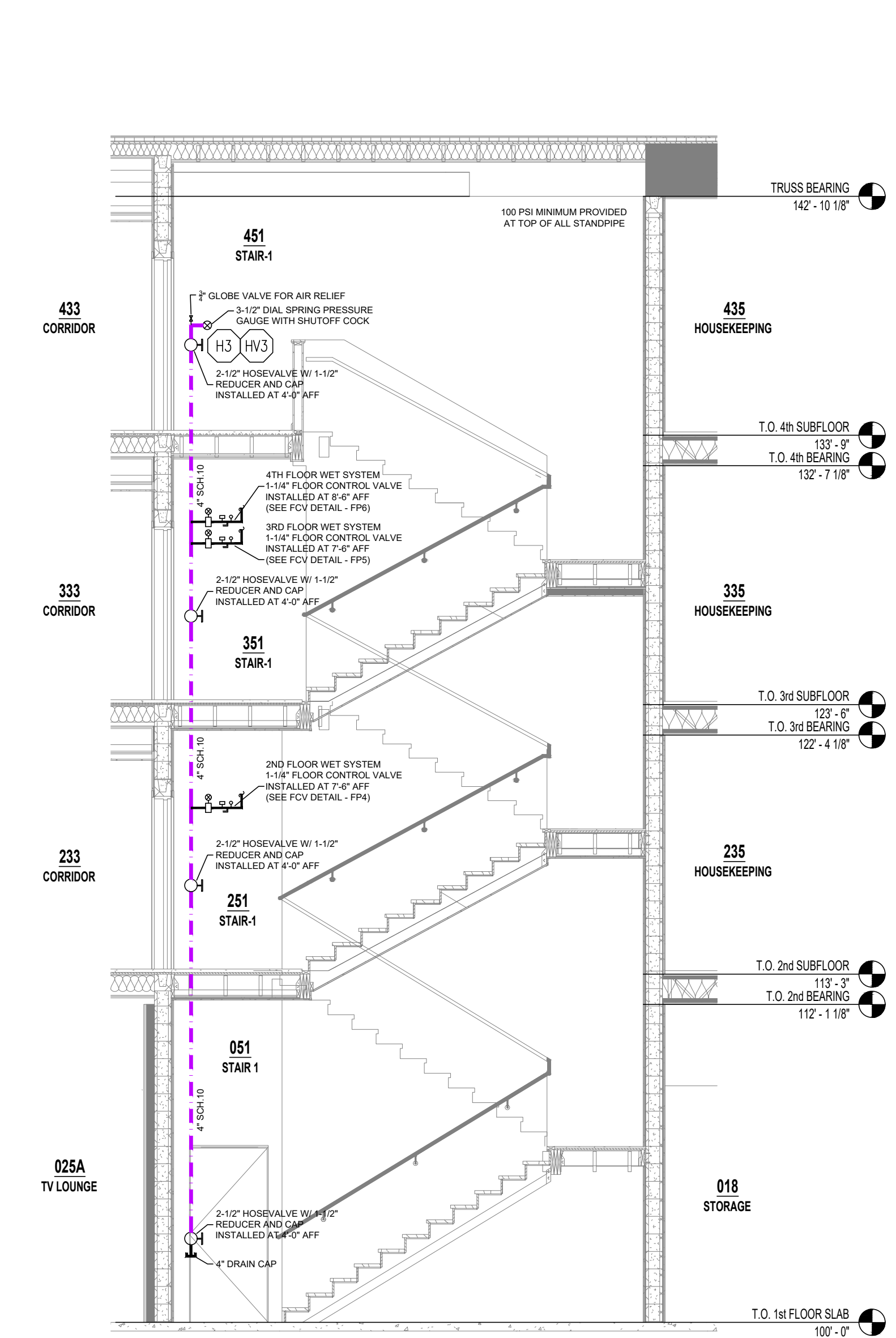


1ST, 2ND & 3RD FLOOR UNIT(S) LAYOUT

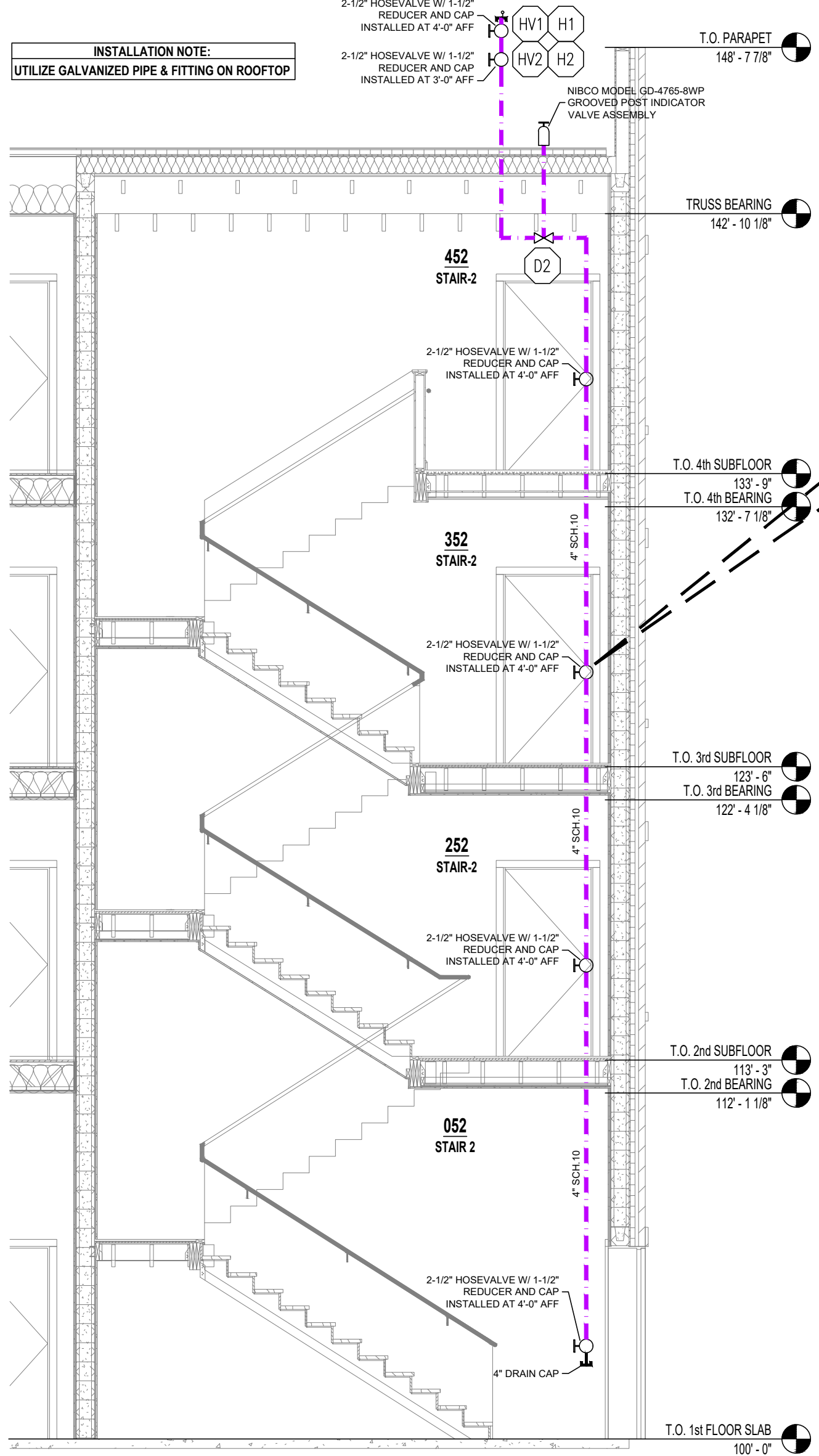


4TH FLOOR UNIT(S) LAYOUT

NFPA 13R UNIT REVIEW NOTES:
SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS IN DWELLING UNITS WHERE THE BATHROOM AREA DOES NOT EXCEED 55 SQ.FT PER NFPA 13R 6.6.2
SPRINKLERS SHALL NOT BE REQUIRED IN CLOSETS, LINEN CLOSETS, OR PANTRIES NOT EXCEEDING 24 SQ.FT PER NFPA 13R 6.6.3
SPRINKLERS SHALL BE INSTALLED IN ANY CLOSET USED FOR HEATING OR AIR-CONDITIONING EQUIPMENT, WASHERS, DRYERS, OR WATER HEATERS PER NFPA13 R 6.6.4



STAIR 1 - CROSS SECTION

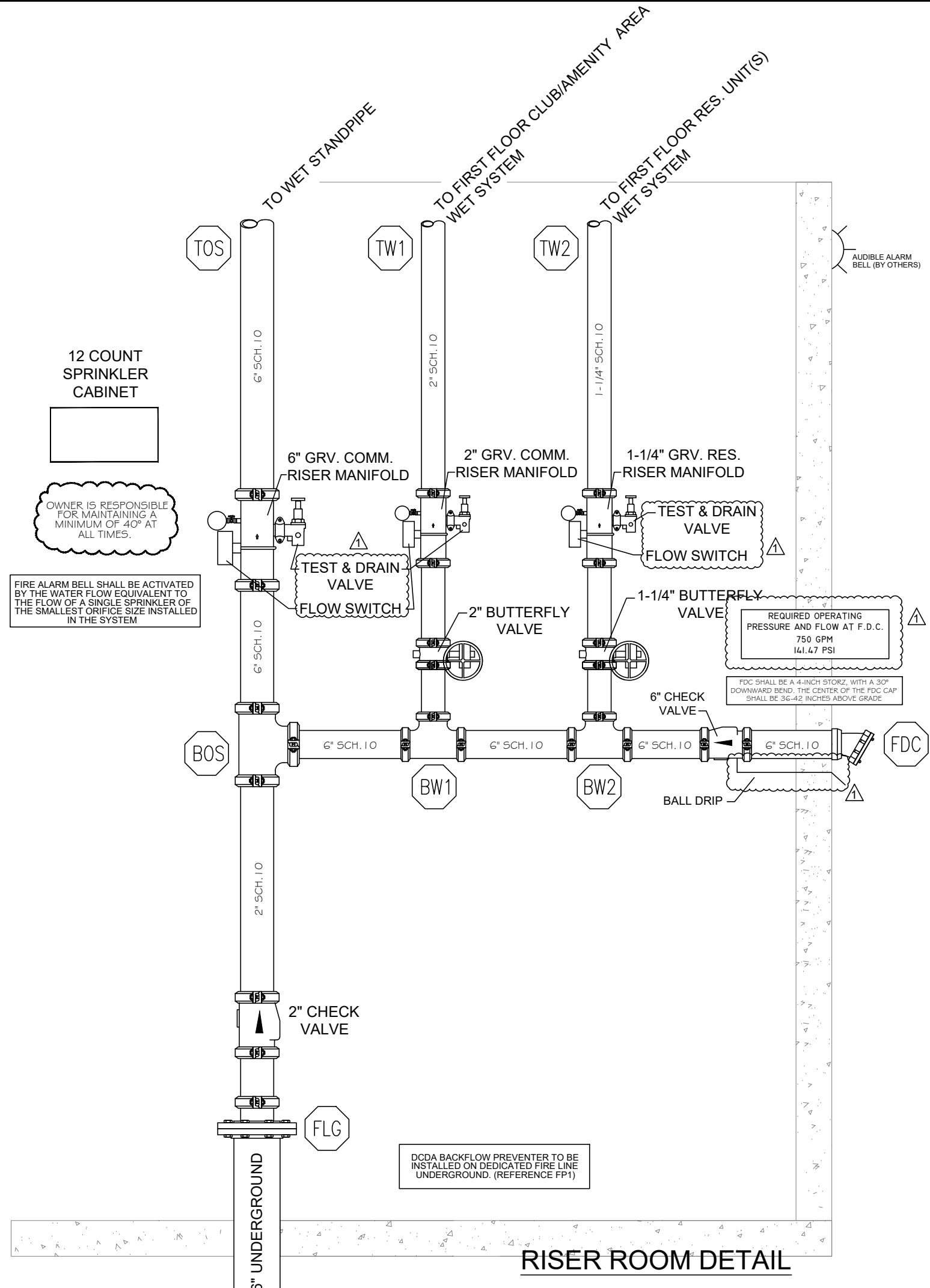
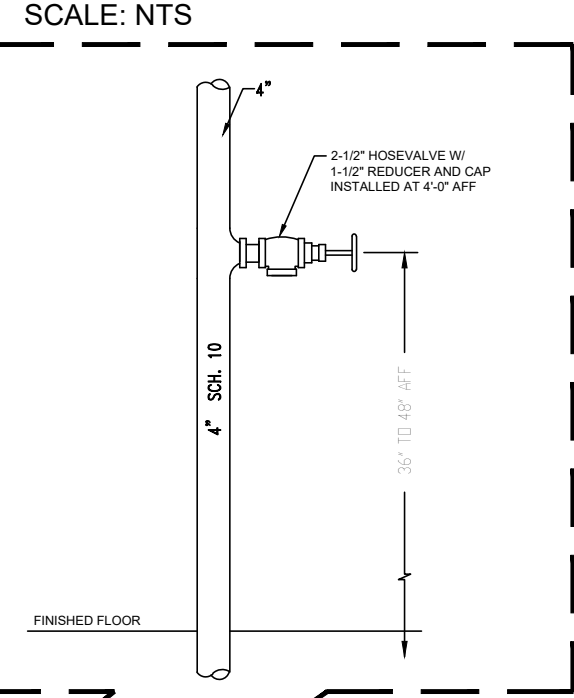


STAIR 2 - CROSS SECTION

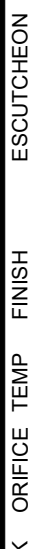


BUILDING CROSS SECTION

HOSE VALVE DETAIL



RISER ROOM DETAIL

HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MO 64064																				RANGER FIRE																					
SCALE: AS SHOWN		DRAWN BY: J.G.		DATE: 10/17/2025		CHECKED BY: J.G.		R.C.		AS SHOWN		DRAWN BY: J.G.		DATE: 10/17/2025		CHECKED BY: J.G.		R.C.		AS SHOWN		DRAWN BY: J.G.		DATE: 10/17/2025		CHECKED BY: J.G.		R.C.		AS SHOWN											
OWNER:		INTRINSIC DEVELOPMENT		3622 ENCLAVOR AVENUE, SUITE 101		COLUMBIA, MO 65201		(637) 881-0200		CONTRACTOR:		INTRINSIC DEVELOPMENT		3622 ENCLAVOR AVENUE, SUITE 101		COLUMBIA, MO 65201		(637) 881-0200		QUANTITY		ESCALATION		FINISH		TEMP		SYMBOL		MAKE		MODEL		SIN		K		OFFICE		CONFIDENTIALITY STATEMENT	
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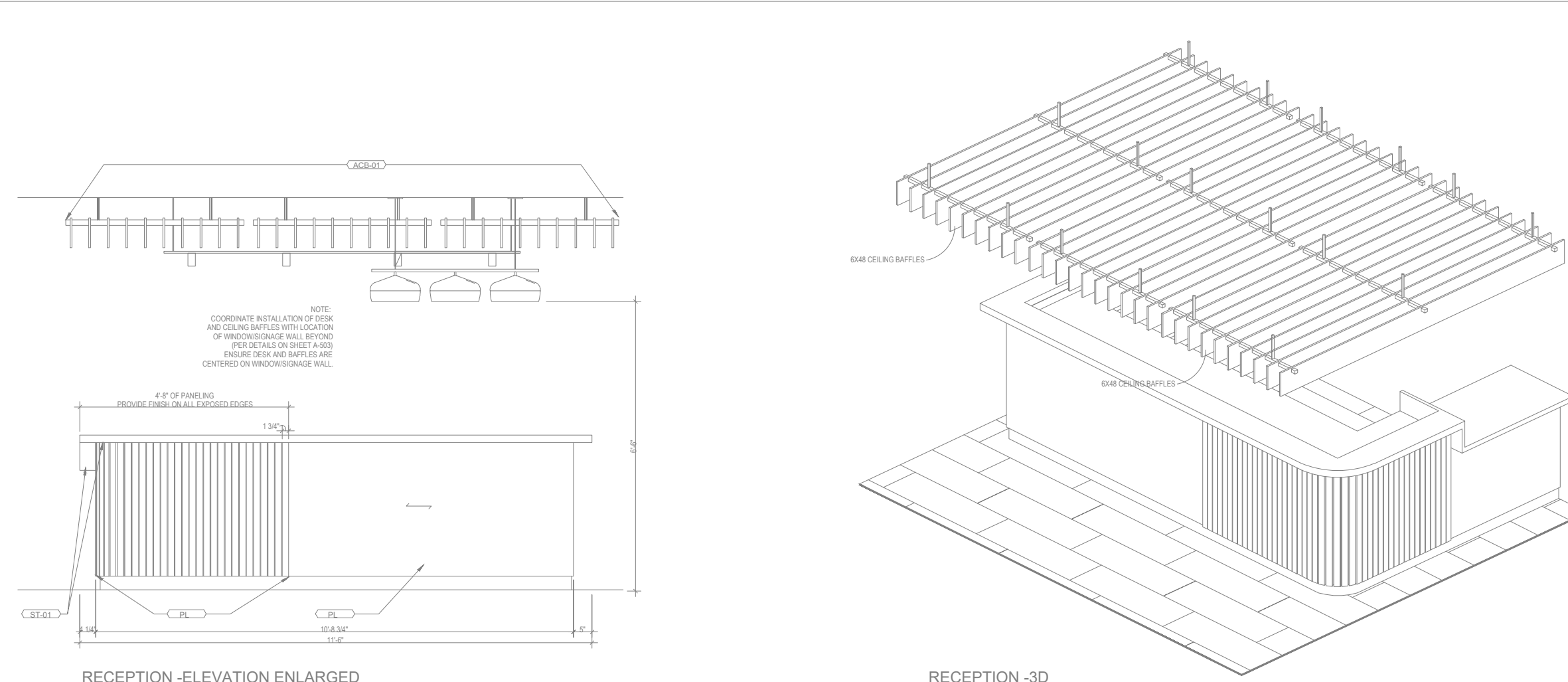
DETAILS

LEGEND

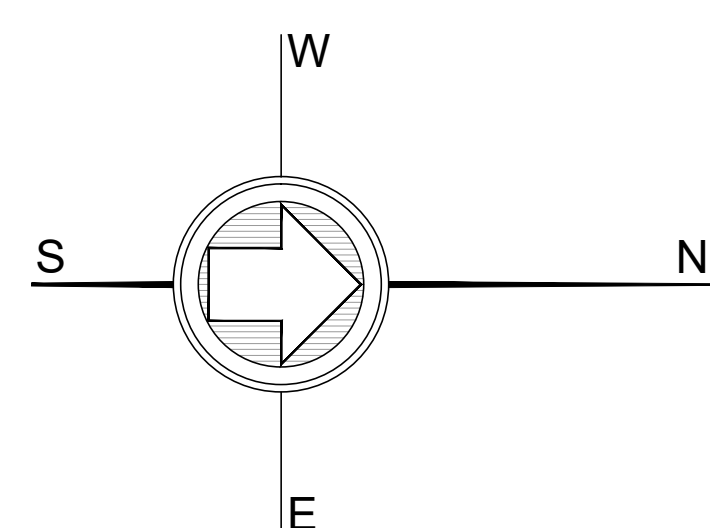
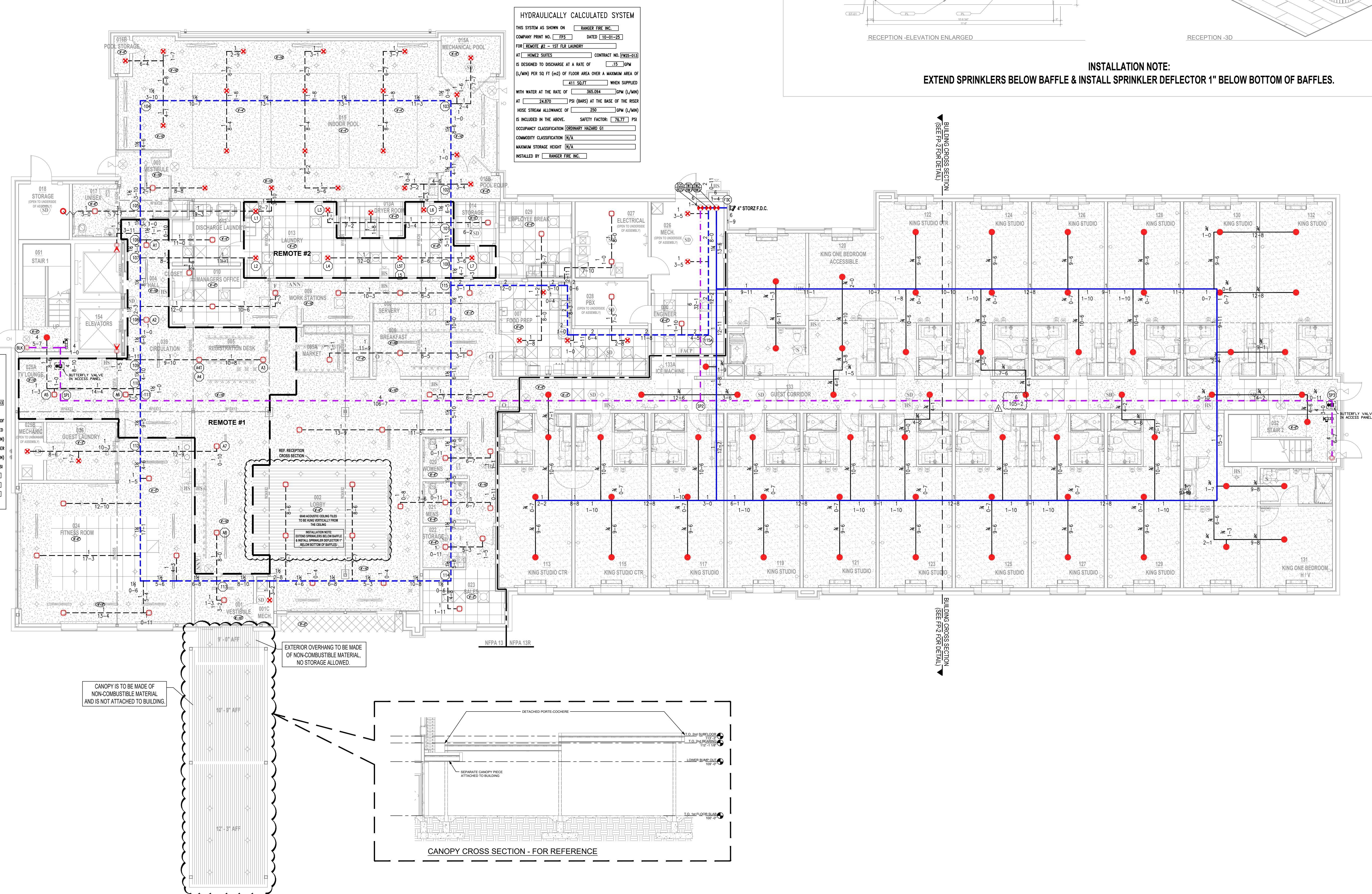
SPRINKLER RISER LOCATION
VERTICAL PIPE (UP OR DN)
HYDRAULIC NODE
REMOTE AREA OUTLINE
WET SYSTEM - CPVC PIPE
WET SYSTEM - SCH.10/40 STEEL PIPE
WET MANUAL STANDPIPE - SCH.10 STEEL PIPE
CORR. CLG. HEIGHT @8'-3" A.F.F. - U.O.N.
CORR. CLG. HEIGHT @8'-0" A.F.F. - U.O.N.

[illegible]

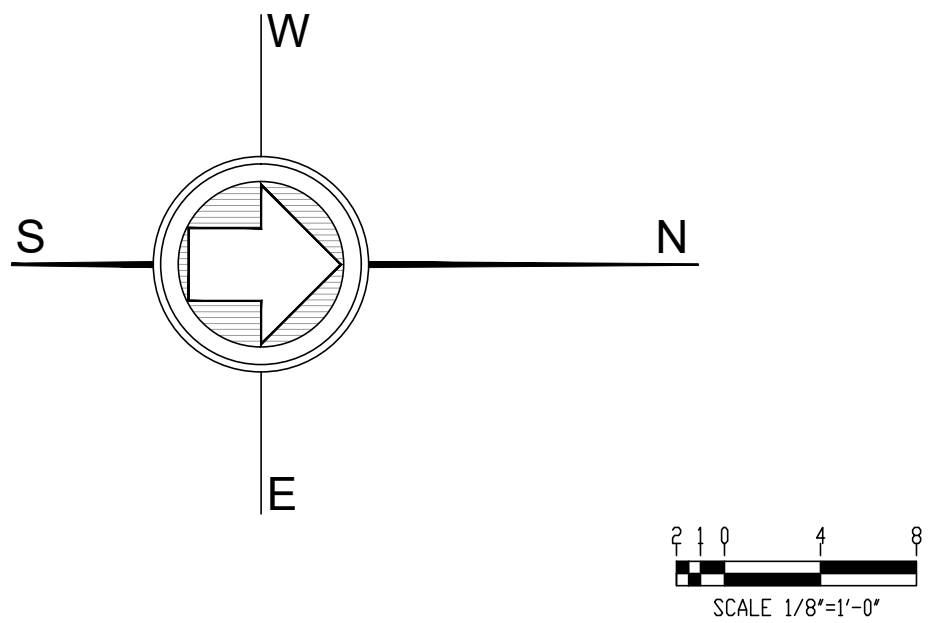
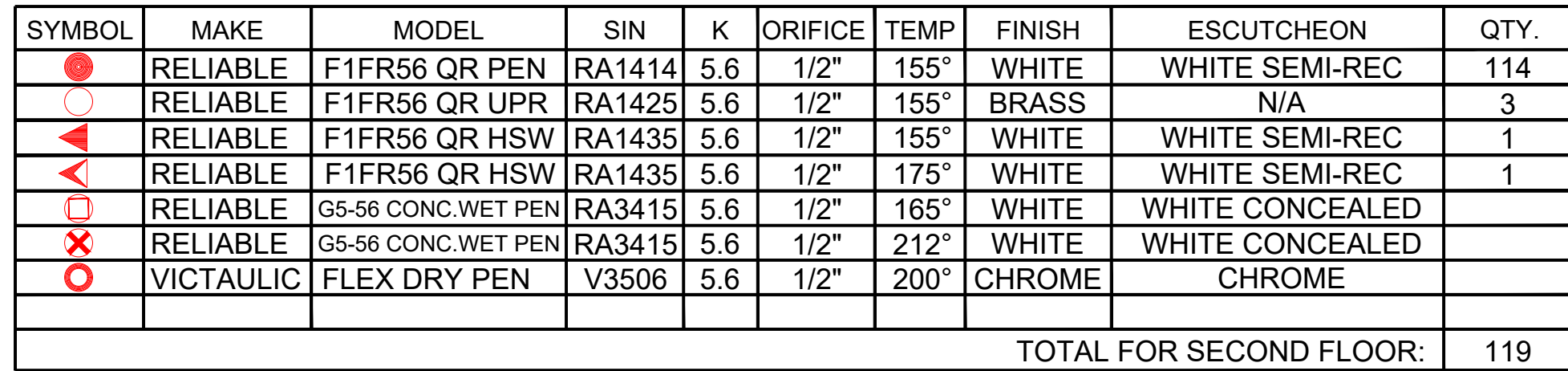
RECEPTION CROSS SECTION - FOR REFERENCE



INSTALLATION NOTE:
EXTEND SPRINKLERS BELOW BAFFLE & INSTALL SPRINKLER DEFLECTOR 1" BELOW BOTTOM OF BAFFLES.

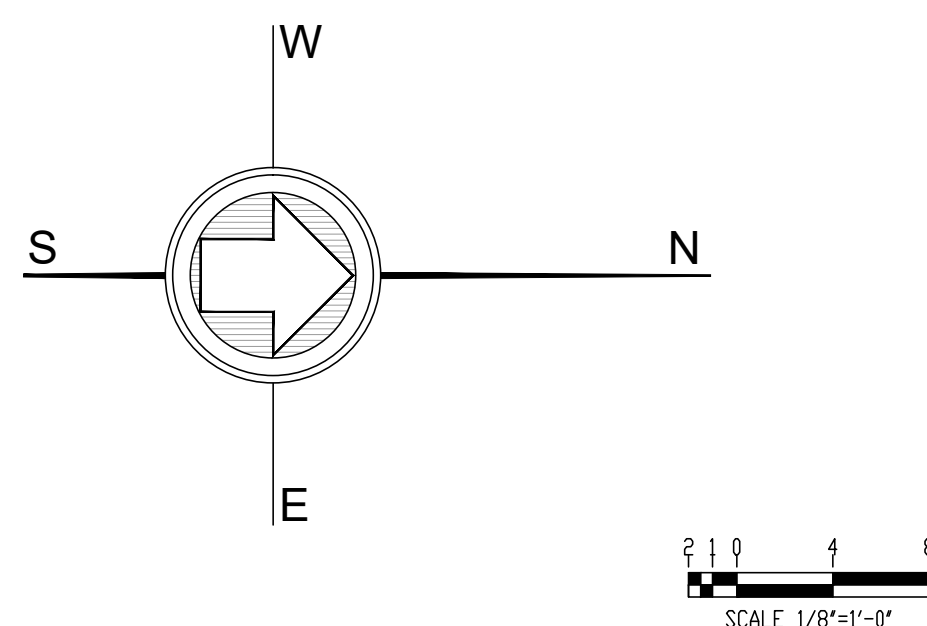
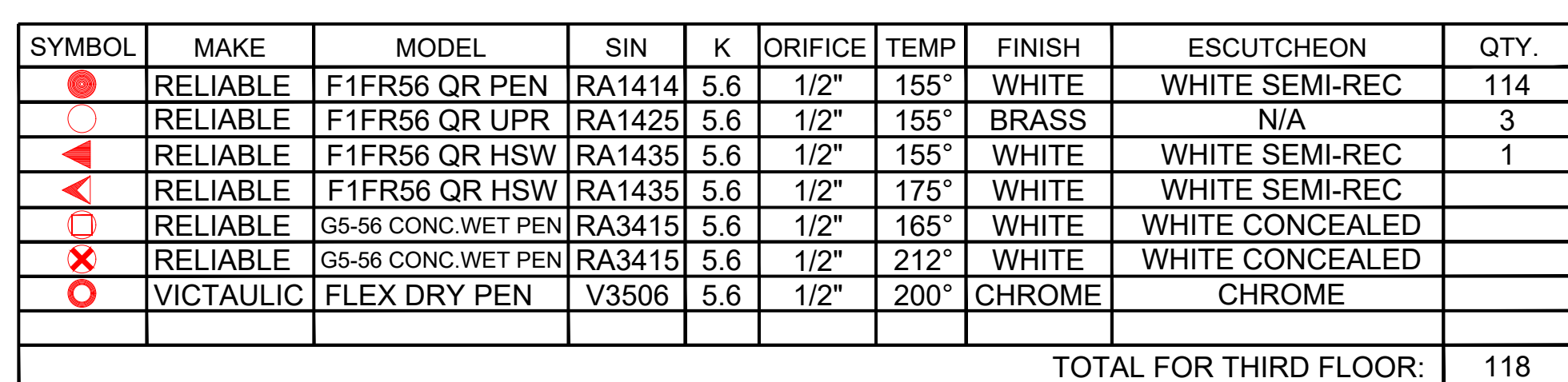


FIRST FLOOR PLAN



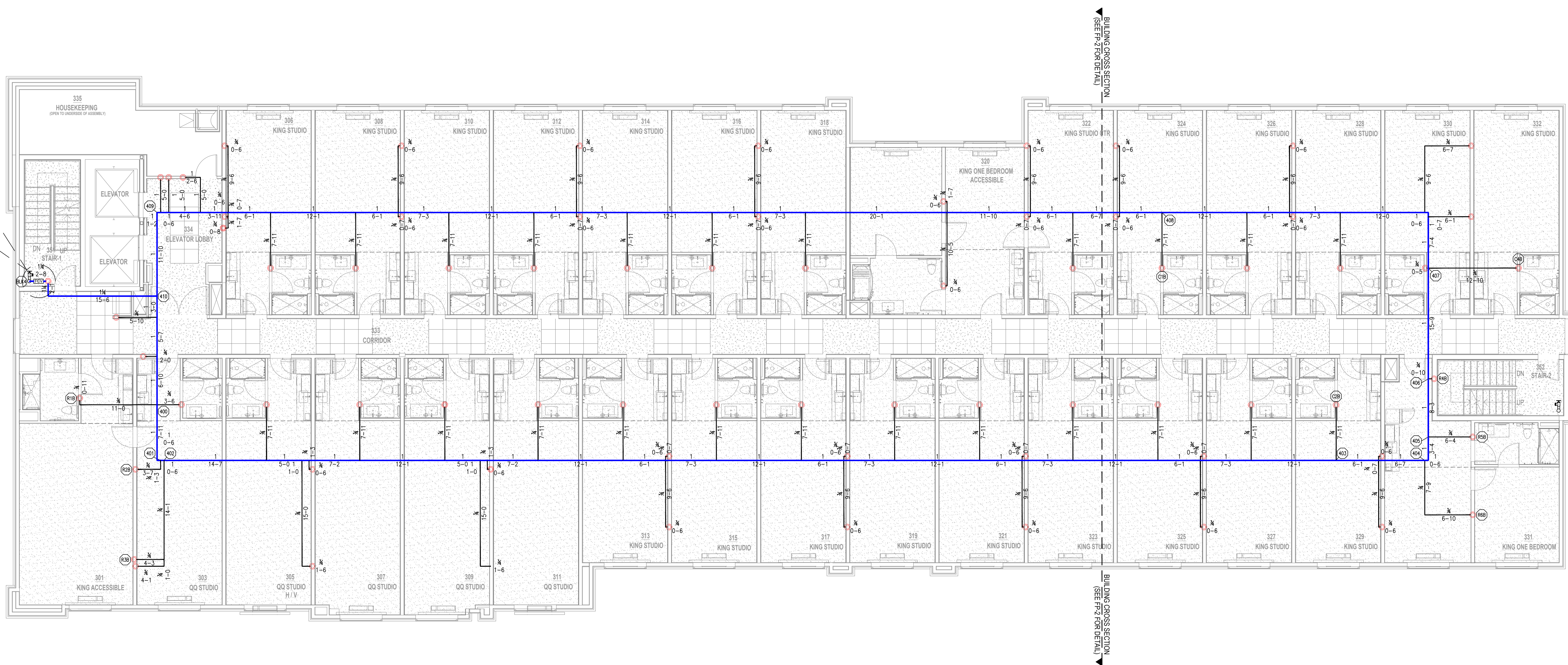
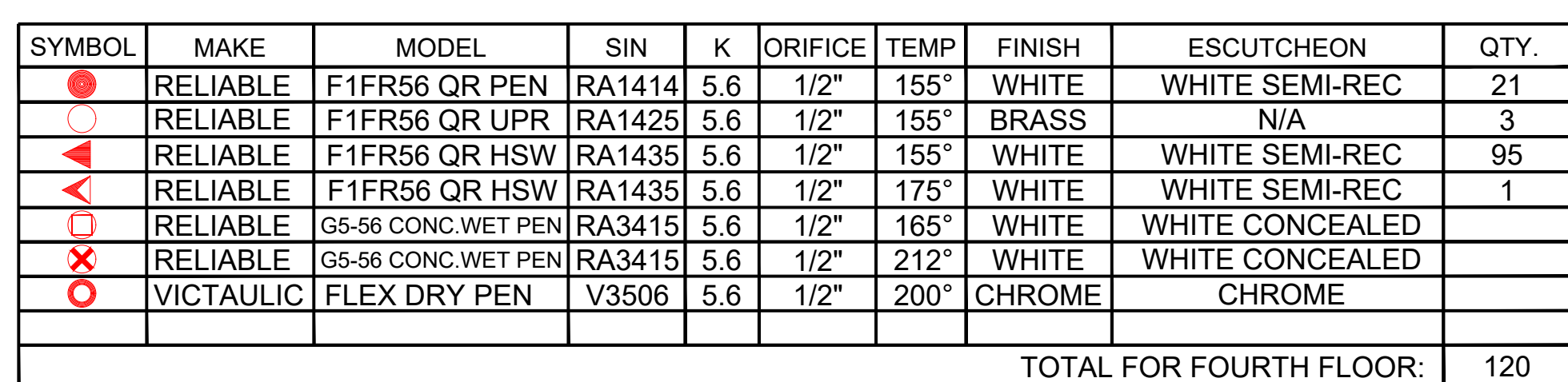
SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"									
HOME2 SUITES BY HILTON									
251 NE ALURA WAY									
LEE'S SUMMIT, MO 64064									
RANGER FIRE									
RANGER FIRE									
Multi-Family									
10/17/2025									
DATE: 10/17/2025									
J.G.									
CHECKED BY: J.G.									
DRAWN BY: J.G.									
DWG. NO: 10/17/2025									
CONTRACT # FV25-013									
DESCRIPTION: INSTALLATION PER NFPA 13, NFPA 13R & NFPA 14									

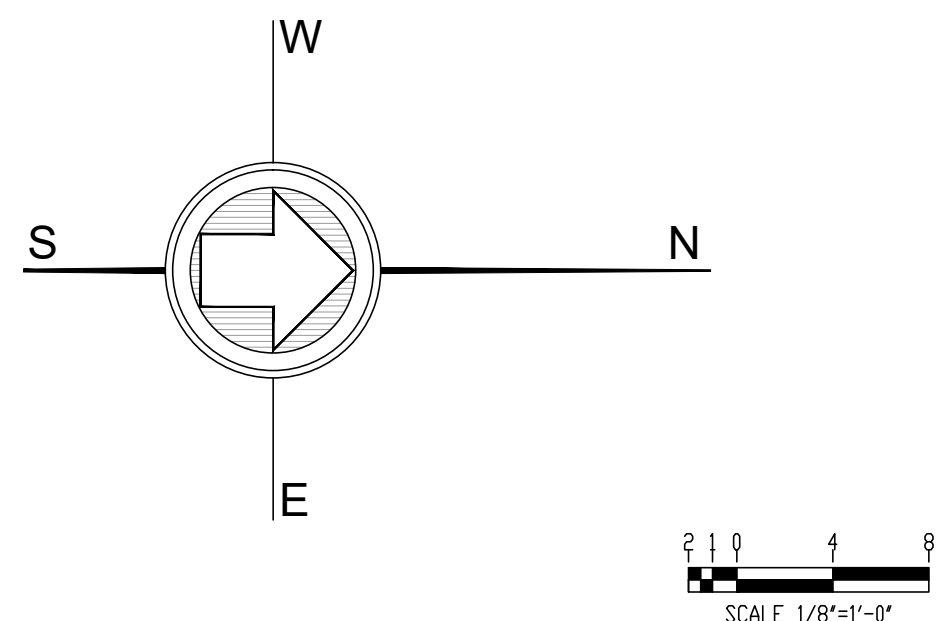
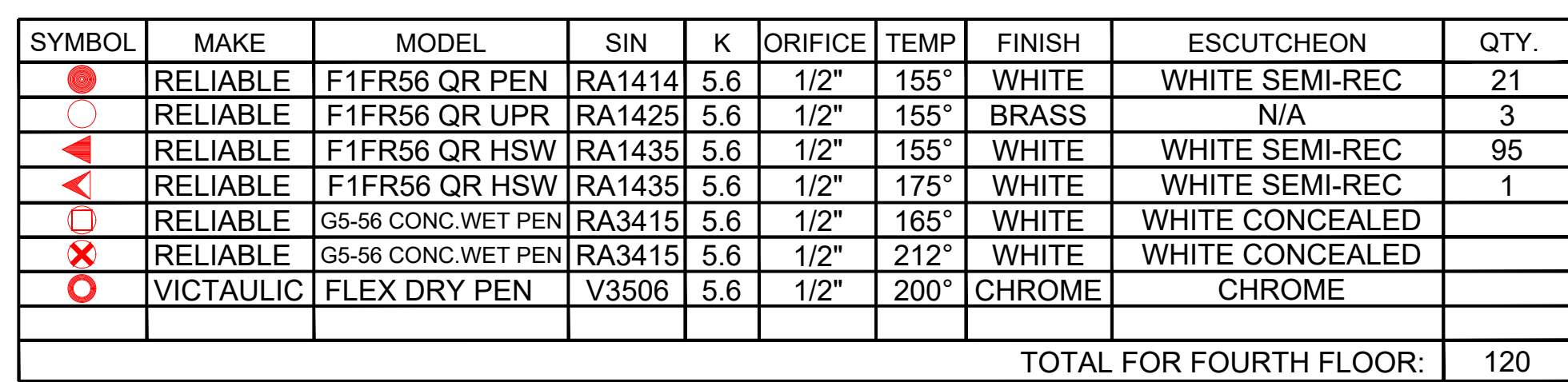


THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"	HOME2 SUITES BY HILTON		RANGER FIRE
DRAWN BY: R.C.	251 NE ALURA WAY		
CHECKED BY: J.G.	LEE'S SUMMIT, MO 64064		
DATE: 10/17/2025	Multi-Family	RANGER FIRE	
FIG. NO: 100	FP5	DESCRIPTION: INSTALLATION PER NFA 13, NFPA 13R & NFPA 14	
	CONTRACT #	F-W25-013	



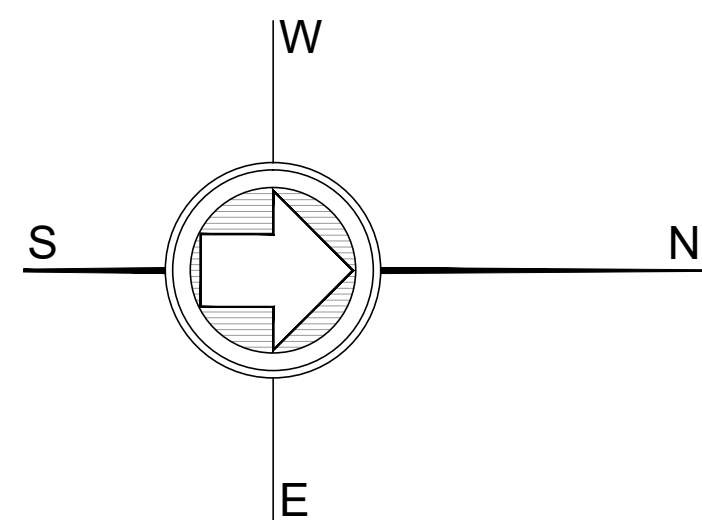
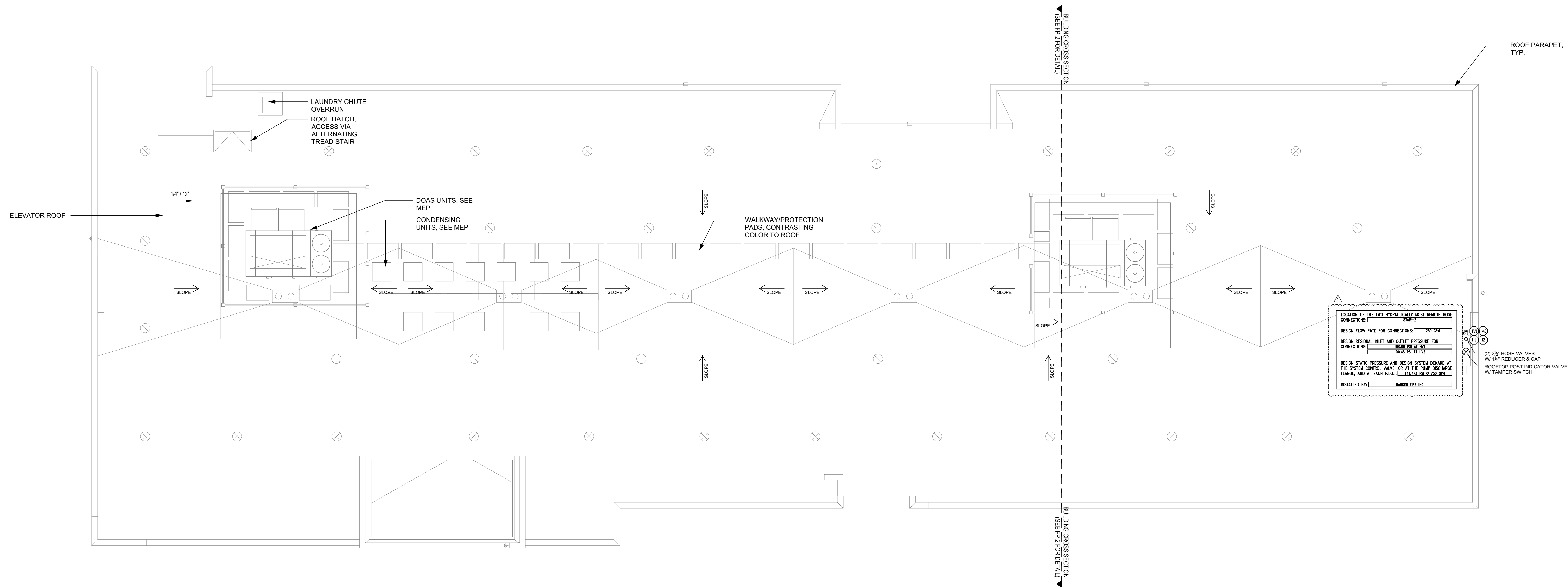
SCALE: 1/8" = 1'-0" DRAWN BY: R.C. CHECKED BY: J.G. DATE: 10/17/2025 PROJECT: Multi-Family FP6 CONTRACT # F-25-013 DESCRIPTION: INSTALLATION PER NFPA 13, NFPA 13R & NFPA 14										 HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MO 64064 RANGER FIRE										SYMBOL, MAKE, MODEL, SIN, K, ORifice, TEMP, FINISH, ECUATCHION, QUANTITY										OWNER INTENSIVE DEVELOPMENT 3022 ENDOR AVENUE, SUITE 101 COVINGTON, MO 65021 3070 NW 42ND CONTRACTOR 1001122 - DESIGN CHANGES TO COMPLY WITH HILTON INTENSIVE DEVELOPMENT 3022 ENDOR AVENUE, SUITE 101 COVINGTON, MO 65021 (573) 841-4200										CONFIDENTIALITY STATEMENT										This drawing, the information and design opportunities herein, contained herein, and the contents of this drawing are the property of Ranger Fire, Inc. and are not to be used, copied, reproduced, or otherwise disclosed in any manner without the prior written consent of Ranger Fire, Inc. It is understood that the information contained herein is confidential and proprietary to Ranger Fire, Inc. and is not to be used, copied, reproduced, or otherwise disclosed in any manner without the prior written consent of Ranger Fire, Inc. Ranger Fire, Inc. 1000 South Main Street, Suite 150 Grandview, MO 64051 Phone: 817-410-9070									
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FOURTH FLOOR PLAN

1/8" = 1'-0"		SCALE	
R.C.		DRAWN BY	
J.G.		CHECKED BY	
DATE: 10/17/2025		BY: JG	
PROJECT NO: 251 NE ALURA WAY		PROJECT NAME: HOME2 SUITES BY HILTON	
MULTI-FAMILY		DESCRIPTION: INSTALLATION PER NFPA 13, NFPA 13R & NFPA 14	
FP7		CONTRACT NO: FV25-013	
RANGER FIRE		RANGER FIRE	
			
TOTAL HEADCOUNT SHOWN ON FLOOR PLAN		TOTAL HEADCOUNT SHOWN ON FLOOR PLAN	
OWNER: INTRINSIC DEVELOPMENT		OWNER: INTRINSIC DEVELOPMENT	
3622 ENDOVER AVENUE, SUITE 101		3622 ENDOVER AVENUE, SUITE 101	
COVINGTON, MISSISSIPPI 39406		COVINGTON, MISSISSIPPI 39406	
CONTRACTOR: 10701 W. KINGS		CONTRACTOR: 10701 W. KINGS	
INTRINSIC DEVELOPMENT		INTRINSIC DEVELOPMENT	
3622 ENDOVER AVENUE, SUITE 101		3622 ENDOVER AVENUE, SUITE 101	
COVINGTON, MISSISSIPPI 39406		COVINGTON, MISSISSIPPI 39406	
(504) 884-4269		(504) 884-4269	
CONFIDENTIALITY STATEMENT		CONFIDENTIALITY STATEMENT	
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Ranger Fire, Inc.		Ranger Fire, Inc.	
1000 South Main Street, Suite 150		1000 South Main Street, Suite 150	
Covington, Mississippi 39406		Covington, Mississippi 39406	
Phone: 817-410-3070		Phone: 817-410-3070	

- LEGEND
- SPRINKLER RISER LOCATION
VERTICAL PIPE (UP OR DN)
HYDRAULIC NODE
- REMOTE AREA OUTLINE
- WET SYSTEM - CPVC PIPE
- WET SYSTEM - SCH.10/40 STEEL PIPE
- WET MANUAL STANDPIPE - SCH.10 STEEL PIPE
- CORR. CLG. HEIGHT @8'-3" A.F.F. - U.O.N.
- CORR. CLG. HEIGHT @8'-0" A.F.F. - U.O.N.



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

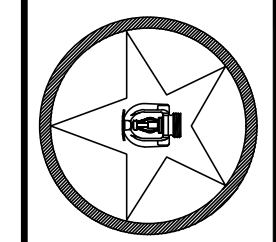
ROOF FLOOR PLAN

SCALE: 1/8" = 1'-0"
DRAWN BY: R.C.
CHECKED BY: J.G.
DATE: 10/17/2025
PAGE: 02

HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MO 64064

Multi-Family
CONTRACT # 17425-013

DESCRIPTION: INSTALLATION PER NFPA 13, NFPA 10R & NFPA 14



RANGER FIRE

TOTAL HEADCOUNT SHOWN ON FLOOR PLAN

SYMBOL MAKE MODEL SIN K CORRUSE TEMP FINISH ESCUTCHEON QUANTITY

OWNER:
INTRINSIC DEVELOPMENT
3822 ENDEAVOR AVENUE, SUITE 101
COLUMBIA, MO 65201
(637) 881-0280

DESIGNER:
RANGER FIRE
1000 SOUTH MAIN STREET, SUITE 150
GRAPEVINE, TEXAS 76051
PHONE: 817-410-9070

REVISIONS:
10/01/25 - ARCHITECTURE DESIGN & CONSULTANTS
10/14/25 - LEE'S SUMMIT PLAN REVIEW COMMENTS

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