

A BUILDING SECTION
SCALE: 1/8" = 1'-0"

PIPE VOLUMES:
(CPVC)
ZONE 1: LOWER LEVEL
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 532' (26.31 GAL)

TOTAL VOLUME: ± 26.31 GALLONS

PIPE VOLUMES:
(CPVC)
ZONE 2: MAIN & UPPER LEVEL
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 644' (31.85 GAL)
1-1/4" = 76' (6.03 GAL)

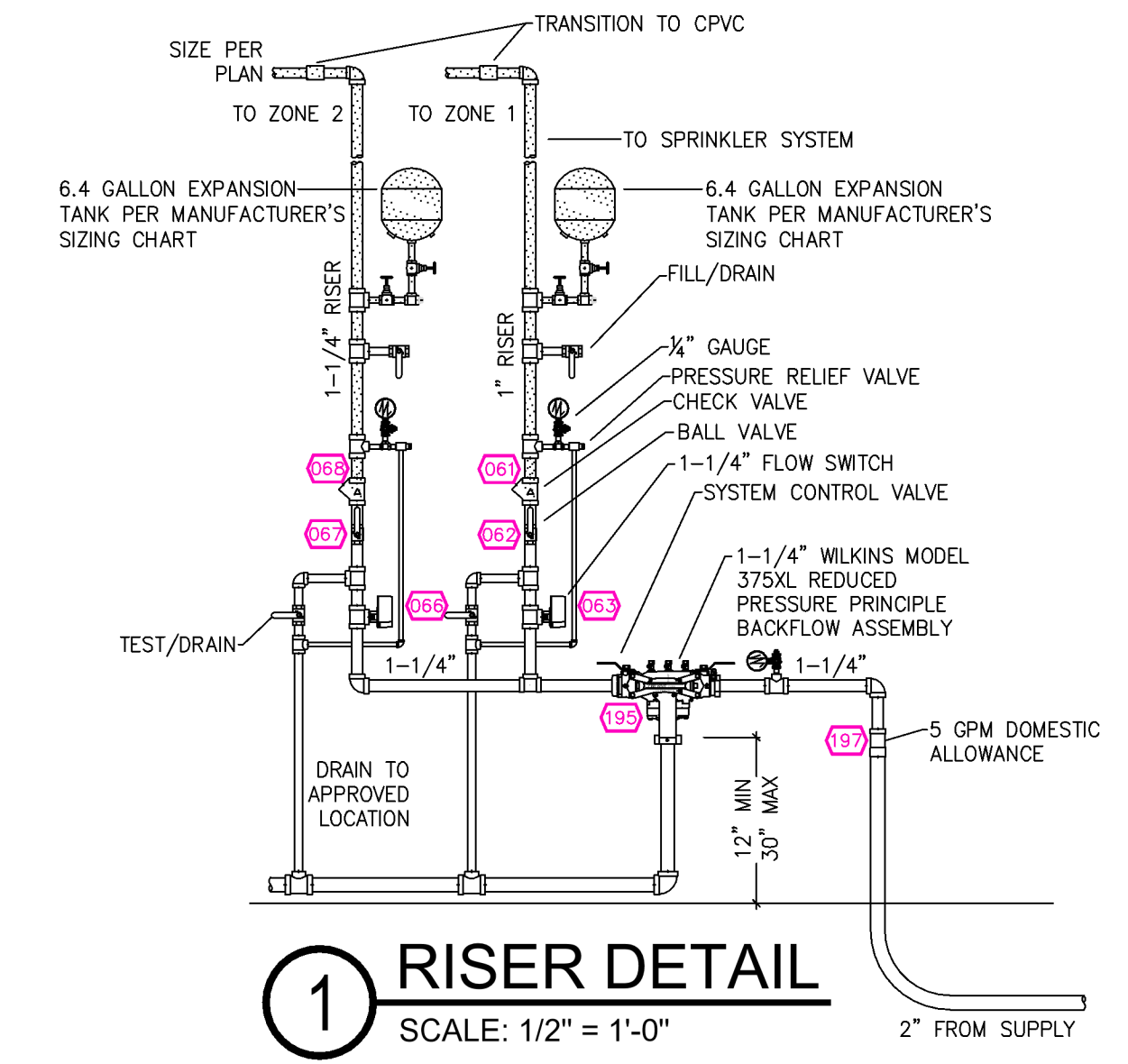
TOTAL VOLUME: ± 37.87 GALLONS

NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)

Nominal Pipe Diameter (in.)	Schedule 40 Schedule 10 CPVC (gal)
1	0.045 0.049 0.049
1/4	0.078 0.085 0.079
1/2	0.106 0.115 0.104
3/4	0.174 0.190
1	0.248 0.283

MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)

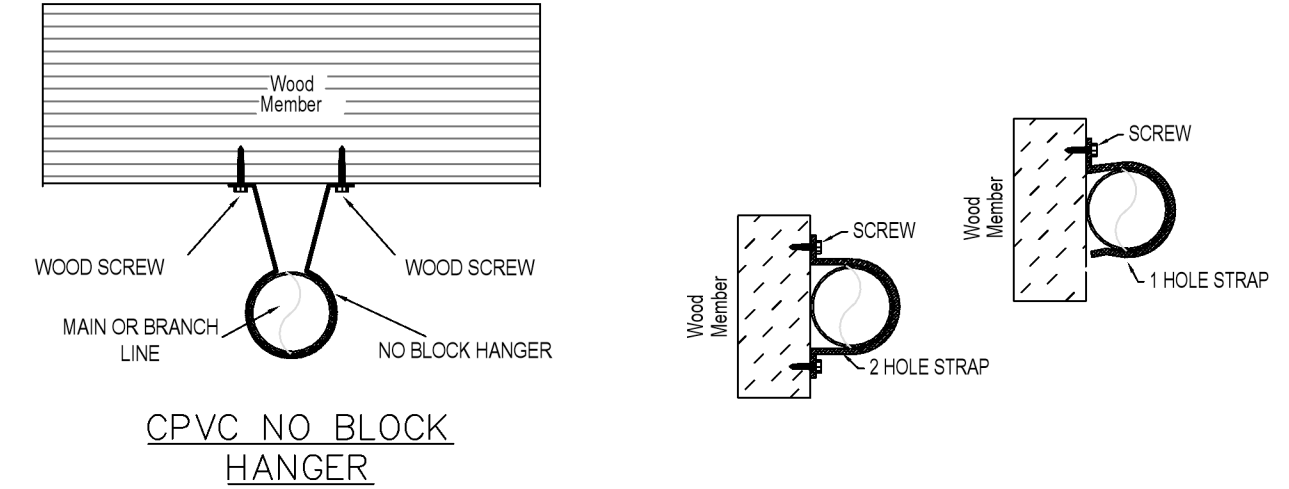
SPEARS CPVC	NOMINAL PIPE SIZE (IN.)									
	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
	5-6	6-0	6-6	7-0	8-0	9-0	10-0	NA	NA	NA



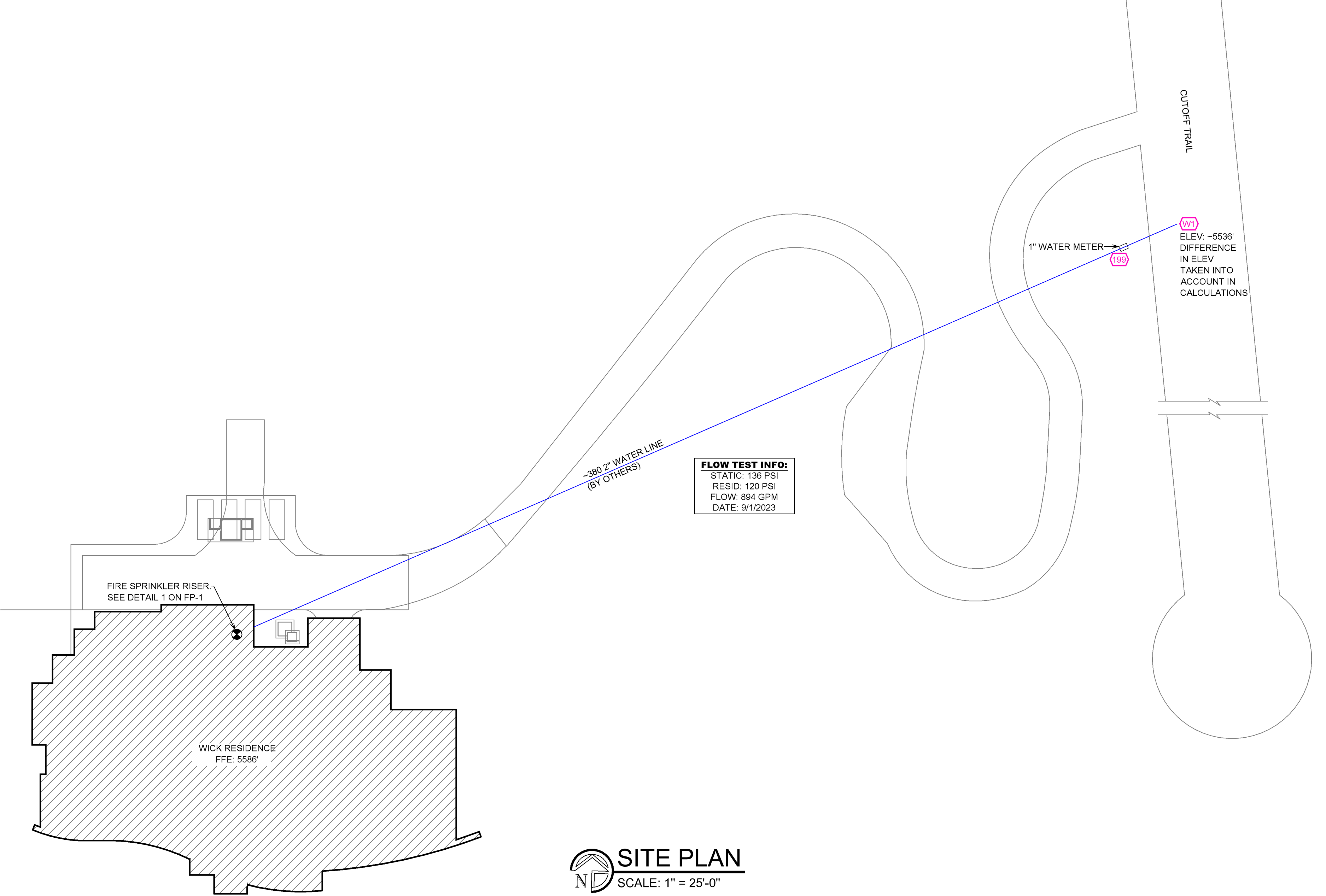
1 RISER DETAIL
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- INTERNATIONAL BUILDING CODE (2018)
 - SPRINKLERED AREA (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
 - LOWER FLOOR = 6056 S.F. - ZONE 1
 - MAIN FLOOR = 6538 S.F. - ZONE 2
 - UPPER FLOOR = 384 S.F.
- INSTALLATION STANDARDS:
 - SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13D (2016)
- SPRINKLER PIPE TYPES:
 - WET ANTI-FREEZE:
 - 1" BRANCH LINES TO BE SPEARS CPVC PIPING WITH CEMENTED FITTINGS
 - 1" TO 1-1/4" MAIN TO BE SPEARS CPVC PIPING WITH CEMENTED FITTINGS
- DESIGN CRITERIA:
 - ALL AREAS PROTECTED ACCORDING TO NFPA 13D WITH SPRINKLER FLOW DETERMINED BY REQUIREMENTS SET FORTH BY NFPA 13D AND SPRINKLER HEAD LISTING DATA. PIPING IS SIZED ACCORDINGLY BY HYDRAULIC CALCULATIONS. REFER TO SPRINKLER HEAD DATA SHEETS FOR DISCHARGE CRITERIA.
 - SPRINKLER PROTECTION IS PROVIDED FOR LIVING AREAS AND THE FOLLOWING AREAS PER 13D:
 - CLOSETS OVER 24 S.F.
 - BATHROOMS OVER 55 S.F.
 - SPRINKLER PROTECTION IS NOT PROVIDED FOR THE FOLLOWING AREAS:
 - CLOSETS UNDER 24 S.F. PER 8.3.3
 - BATHROOMS UNDER 55 S.F. PER 8.3.2
 - DECKS PER 8.3.4
 - ATTIC PER 8.3.5
 - CRAWL SPACE PER 8.3.5
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - SEE PLAN FOR HANGING REQ.



HANGER DETAILS



FLOW TEST INFO:
STATIC: 136 PSI
RESID: 120 PSI
FLOW: 894 GPM
DATE: 9/1/2023

SITE PLAN
SCALE: 1" = 25'-0"

WATER SUPPLY INFORMATION - FLOW TEST DATA

STATIC PSI	136	RESIDUAL PSI	120	FLOW GPM	894	DATE OF FLOW TEST	9/1/23
FLOW TEST LOCATION	3518 CUTOFF TRAIL						
SOURCE OF INFORMATION							

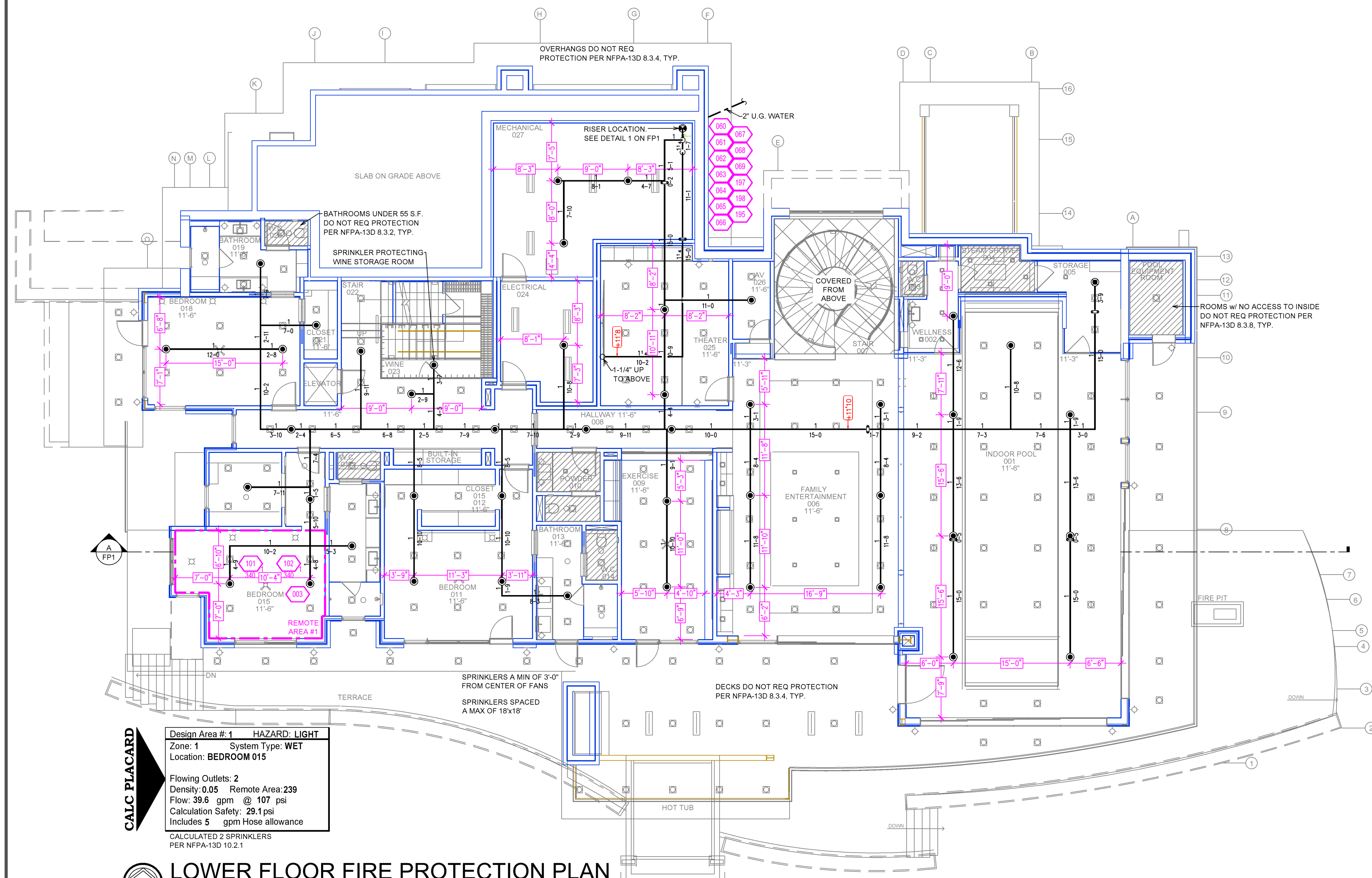
SYMBOLS AND ABBREVIATIONS

SPRINKLER HEADS

QTY	SYMB.	HEAD TYPE	TEMP.	FINISH	ORIFICE	MODEL	CANOPY	SIN
93	●	PENDENT	155	WHITE	1/2"	LFII	CONCEALED	TY2534
14	●	PENDENT	200	WHITE	1/2"	LFII	CONCEALED	TY2534
1	●	PENDENT	155	WHITE	1"	LFII	RECESSED	TY2235

CONTRACT RESPONSIBILITIES

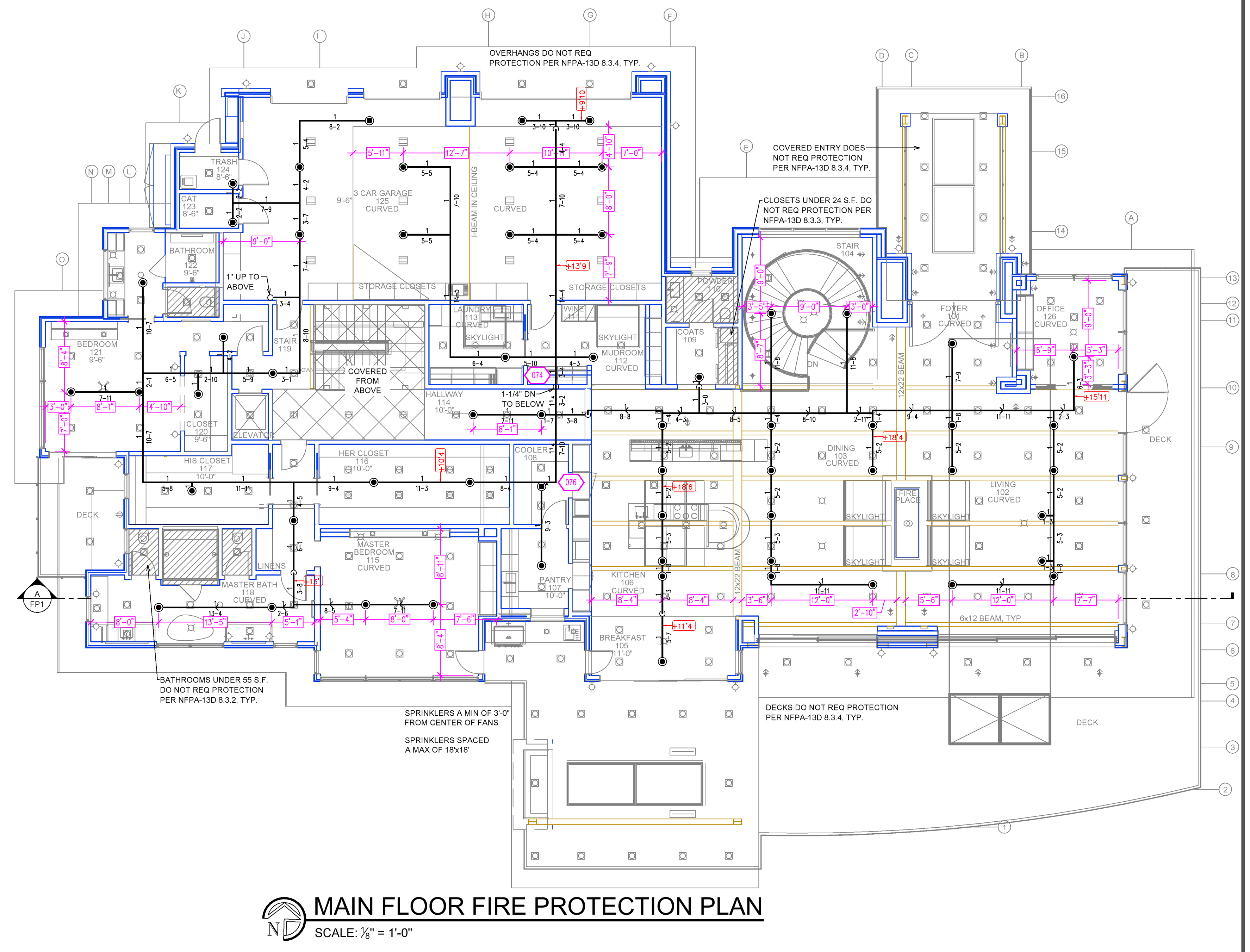
ITEM	OFF	OTHERS
STREET WATER CONNECTION		
UNDERGROUND WATER MAINS		
EXCAVATION		
BACKFILL		
WIRING		
PAINTING		
NO.	DATE	BY



Design Area #1 HAZARD LIGHT
 Zone: 1 System Type: WET
 Location: BEDROOM 015

Flowing Outlets: 2
 Density: 0.05 Remote Area: 239
 Flow: 39.6 gpm @ 107 psi
 Calculation Safety: 29.1 psi
 Includes 5 gpm Hose allowance
 CALCULATED 2 SPRINKLERS
 PER NFPA-13D 10.2.1

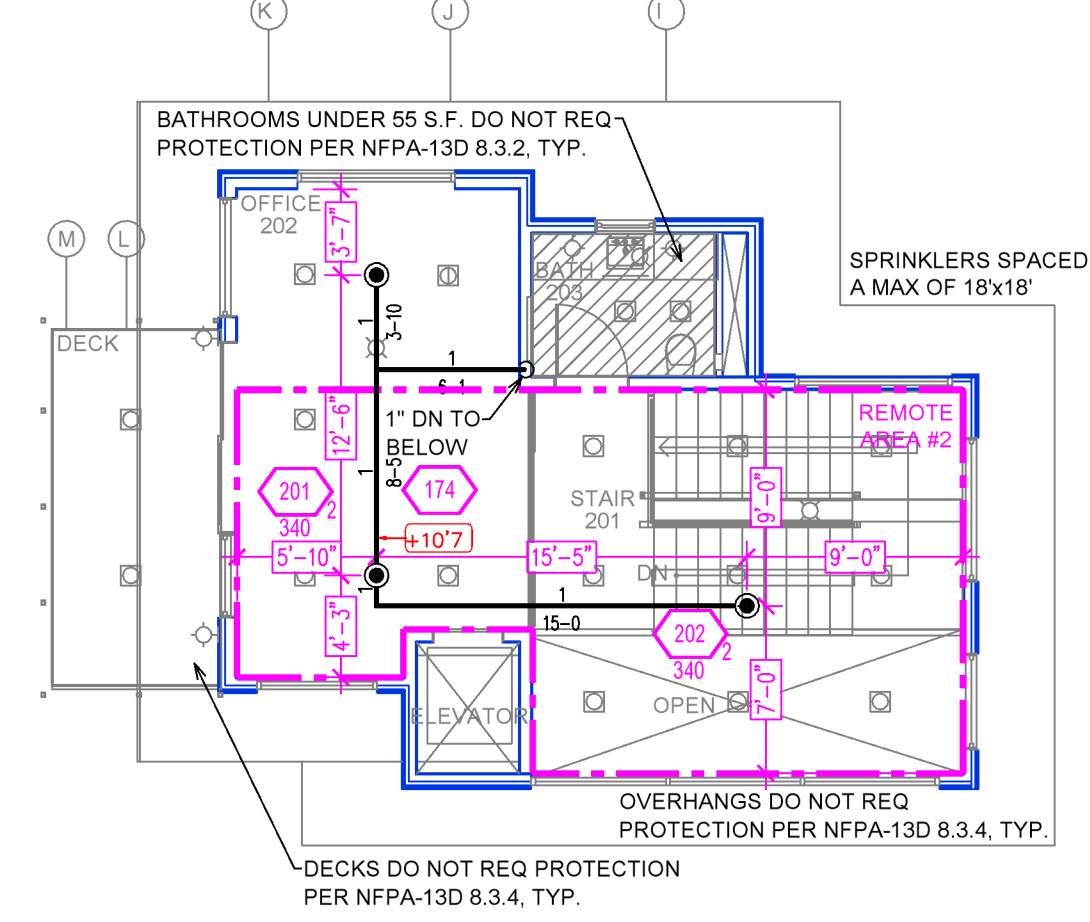
LOWER FLOOR FIRE PROTECTION PLAN
 SCALE: 3/8" = 1'-0"



MAIN FLOOR FIRE PROTECTION PLAN
 SCALE: 3/8" = 1'-0"

Design Area #2 HAZARD LIGHT
 Zone: 1 System Type: WET
 Location: OFFICE 202

Flowing Outlets: 2
 Density: 0.0 Remote Area: 423
 Flow: 39.8 gpm @ 124 psi
 Calculation Safety: 11.7 psi
 Includes 5 gpm Hose allowance
 CALCULATED 2 SPRINKLERS
 PER NFPA-13D 10.2.1



UPPER FLOOR FIRE PROTECTION PLAN
 SCALE: 3/8" = 1'-0"

	WATER SUPPLY INFORMATION - FLOW TEST DATA STATIC PIP 136 PRESSURE PIP 120 FLOW 894 DATE OF FLOW TEST 9/1/23 FLOW TEST LOCATION 3518 CUTOFF TRAIL SOURCE OF INFORMATION	SYMBOLS AND ABBREVIATIONS	CONTRACTOR THESE PLANS ARE PREPARED AND SUBMITTED BY THE CONTRACTOR AS AN EXEMPTION TO NRS 623.035 FOR WORK UNDER THE CONTRACTOR'S LICENSE CATEGORY AUTHORIZED UNDER NRS 624. OVERHEAD FIRE PROTECTION, INC. COMPANY NAME 16599 (PLEASE PRINT) CONTRACTOR REPRESENTATIVE CONTRACTOR LICENSE NUMBER RICH HAFFKE NICET #107189 PLANS PREPARED BY SIGNATURE	SPRINKLER HEADS <table border="1"> <thead> <tr> <th>QTY</th> <th>SYMB.</th> <th>HEAD TYPE</th> <th>TEMP.</th> <th>FINISH</th> <th>ORIFICE</th> <th>MODEL</th> <th>CANOPY</th> <th>SIN</th> </tr> </thead> <tbody> <tr> <td>93</td> <td>●</td> <td>PENDENT</td> <td>155</td> <td>WHITE</td> <td>1/2"</td> <td>LFII</td> <td>CONCEALED</td> <td>TY2534</td> </tr> <tr> <td>14</td> <td>●</td> <td>PENDENT</td> <td>200</td> <td>WHITE</td> <td>1/2"</td> <td>LFII</td> <td>CONCEALED</td> <td>TY2534</td> </tr> <tr> <td>1</td> <td>●</td> <td>PENDENT</td> <td>155</td> <td>WHITE</td> <td>1"</td> <td>LFII</td> <td>RECESSED</td> <td>TY2235</td> </tr> </tbody> </table>	QTY	SYMB.	HEAD TYPE	TEMP.	FINISH	ORIFICE	MODEL	CANOPY	SIN	93	●	PENDENT	155	WHITE	1/2"	LFII	CONCEALED	TY2534	14	●	PENDENT	200	WHITE	1/2"	LFII	CONCEALED	TY2534	1	●	PENDENT	155	WHITE	1"	LFII	RECESSED	TY2235	CONTRACT RESPONSIBILITIES <table border="1"> <thead> <tr> <th>ITEM</th> <th>OFF</th> <th>OTHERS</th> </tr> </thead> <tbody> <tr> <td>STREET WATER CONNECTION</td> <td></td> <td></td> </tr> <tr> <td>UNDERGROUND WATER MAINS</td> <td></td> <td></td> </tr> <tr> <td>EXCAVATION</td> <td></td> <td></td> </tr> <tr> <td>BACKFILL</td> <td></td> <td></td> </tr> <tr> <td>WIRING</td> <td></td> <td></td> </tr> <tr> <td>PAINTING</td> <td></td> <td></td> </tr> <tr> <td>NO. DATE BY</td> <td></td> <td></td> </tr> </tbody> </table>	ITEM	OFF	OTHERS	STREET WATER CONNECTION			UNDERGROUND WATER MAINS			EXCAVATION			BACKFILL			WIRING			PAINTING			NO. DATE BY		
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