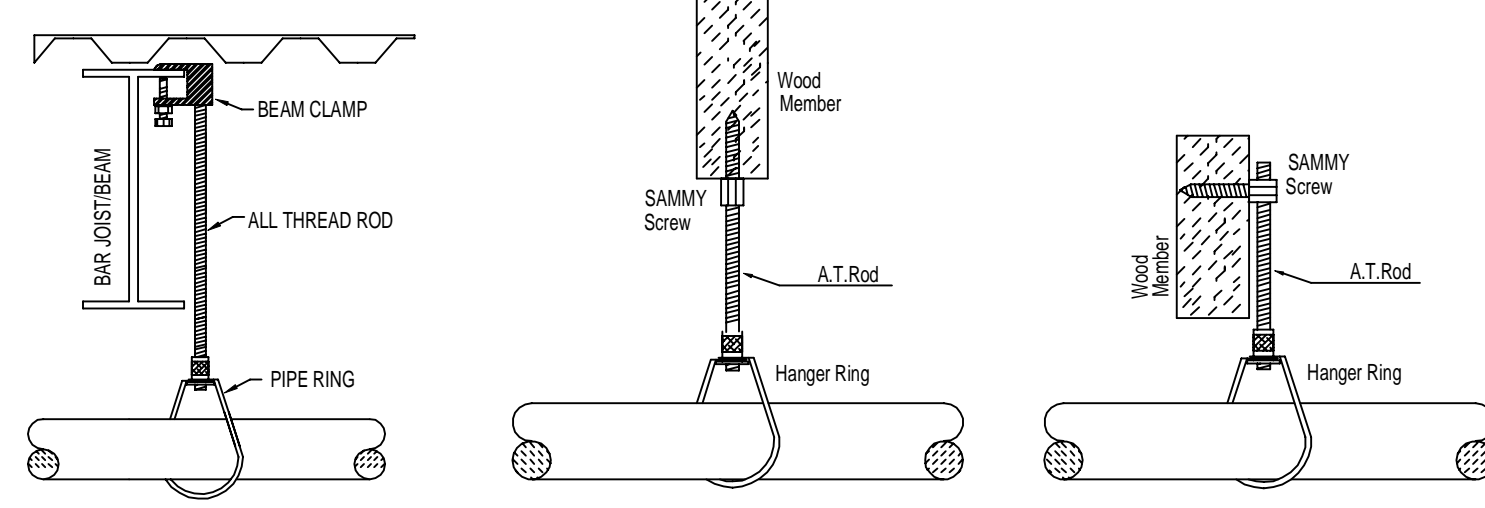


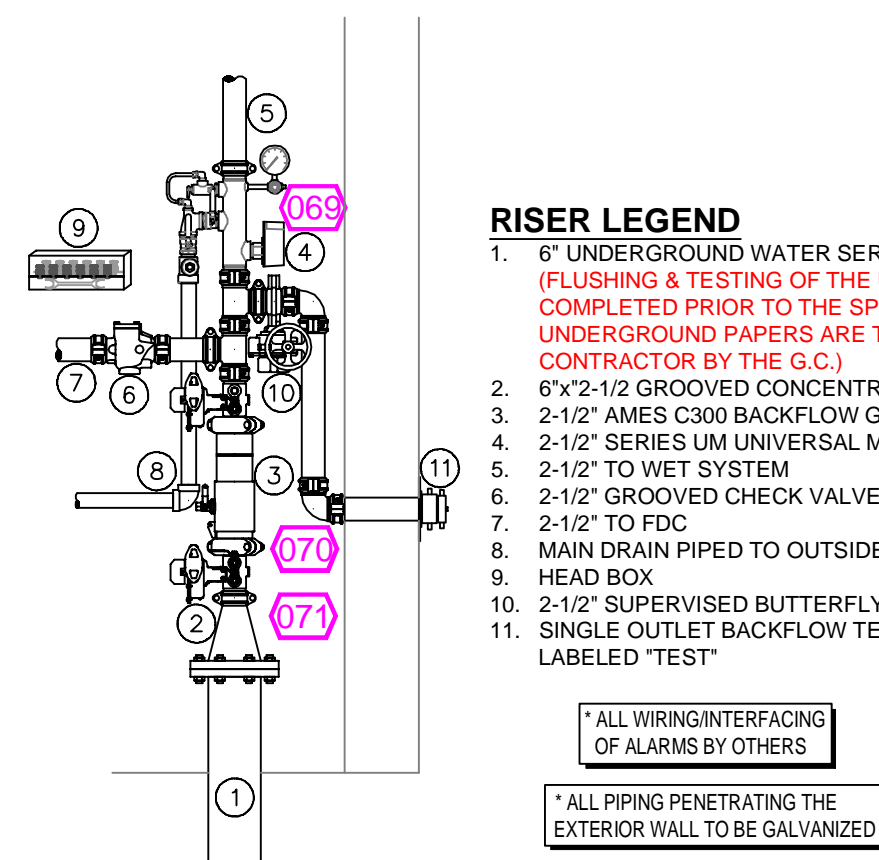
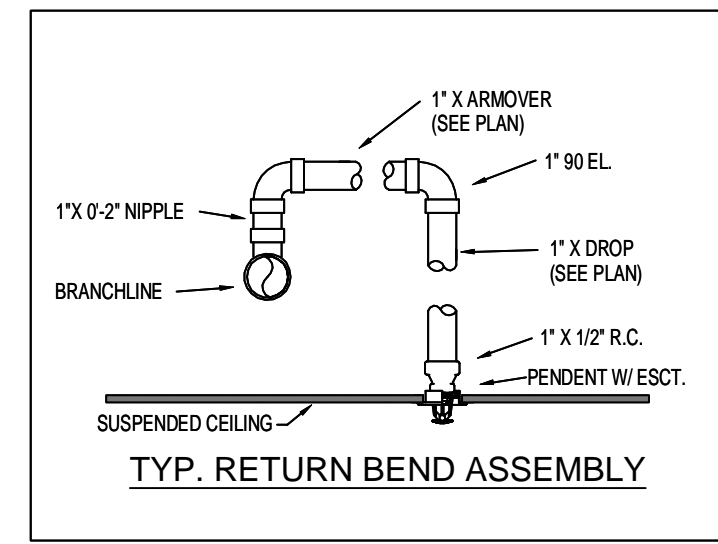
SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESQ/UT/CH/EN	MAX SPACING
34		PENDENT	WHITE	155	4.90	1/2"	V2740	VICTAULIC	FL-RES	SEMI-RECESS	18x18"
50		SPRINK	BRASS	200	5.60	1/2"	V5008	VICTAULIC	FL-SAIC	N/A	18-07-256 SF
42		PENDENT	WHITE	200	5.60	1/2"	V2708	VICTAULIC	FL-GR	SEMI-RECESS	225 SF LK 130 SF CH
7		UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-GR	N/A	130 SF OH
4		SIDEWALL	WHITE	200	5.60	1/2"	V2710	VICTAULIC	FL-GR	SEMI-RECESS	225 SF
1		PENDENT	WHITE	200	5.60	1"	V3614	VICTAULIC	FL-GR/DRY	SEMI-RECESS	225 SF

138 TOTAL SPRINKLERS

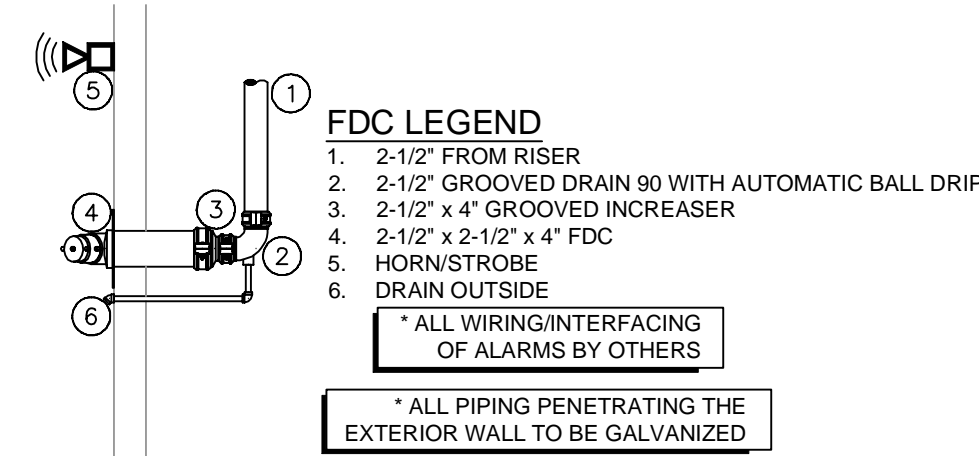
## SPRINKLER HEAD LEGEND



## HANGER DETAILS



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



## 2 FDC DETAIL SCALE: 1/2" = 1'-0"

**PROJECT SUMMARY:**  
THIS PROJECT INCLUDES THE INSTALLATION OF (1) WET SPRINKLER SYSTEM THROUGHOUT THE 3000 FT<sup>2</sup> NEW OAKNOLL SMALL HOUSE.

THE SPRINKLER SYSTEM WILL BE FED FROM THE SYSTEM RISER LOCATED IN MECHANICAL ROOM 143A ON THE EAST WALL NEAR THE SOUTHEAST CORNER OF THE BUILDING. THE STRUCTURE, USED AS A SKILLED NURSING FACILITY, IS OF VA CONSTRUCTION.

### GENERAL NOTES:

- SYSTEM IS DESIGNED TO NFPA 13 (2019 EDITION)
- ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE (WHICHEVER IS GREATER) FOR 2 HOURS
- ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE DEPARTMENT
- ALL FLOW AND TAMPER SWITCHES TO BE LOCALLY AND CENTRALLY MONITORED
- ALL CONTROL VALVES SHALL HAVE TAMPER SWITCHES
- ALL HANGERS FOR THIS SYSTEM SHALL BE PER MINIMUM REQUIREMENTS OF NFPA 13
- THE BUILDING SHALL BE ABLE TO SUPPORT THE SPRINKLER PIPING. THIS IS THE RESPONSIBILITY OF THE OWNER AND/OR THEIR STRUCTURAL REPRESENTATIVES
- THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING HEAT ABOVE 40°F TO PREVENT FREEZING OF SPRINKLER PIPING
- ALL PAINTING OF PIPE SHALL BE BY OTHERS
- ALL WIRING SHALL BE BY OTHERS
- THIS SPRINKLER SYSTEM SHALL BE PROPERLY INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE NFPA 25 TO PROVIDE AT LEAST THE SAME LEVEL OF PERFORMANCE AND PROTECTION AS IT WAS DESIGNED. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE SYSTEM AND KEEPING THE SYSTEM IN GOOD OPERATING CONDITION
- ALL VALVES ON THE RISER MUST BE ACCESSIBLE PER NFPA 13

### INSTALLATION:

- NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
- AFF ELEVATIONS ARE TAKEN FROM THE TOP OF THE FINISHED FLOOR (0'-0")
- FIRE DEPARTMENT VALVES AND DRAINS SHALL BE READILY ACCESSIBLE AT ALL TIMES
- APPROVED FIRE CAULK WILL BE APPLIED 1/2" THICK ON EACH SIDE OF FIRE RATED WALL ASSEMBLIES
- ALL PIPE PENETRATING EXTERIOR WALLS TO BE GALVANIZED. ANNULAR SPACE TO BE SEALED AT EACH SIDE OF WALL
- END CAPS TO BE UTILIZED FOR FLUSHING PIPE AS REQUIRED BY NFPA 13

### STRUCTURAL NOTES:

- BUILDING IS OF WOOD TRUSS CONSTRUCTION

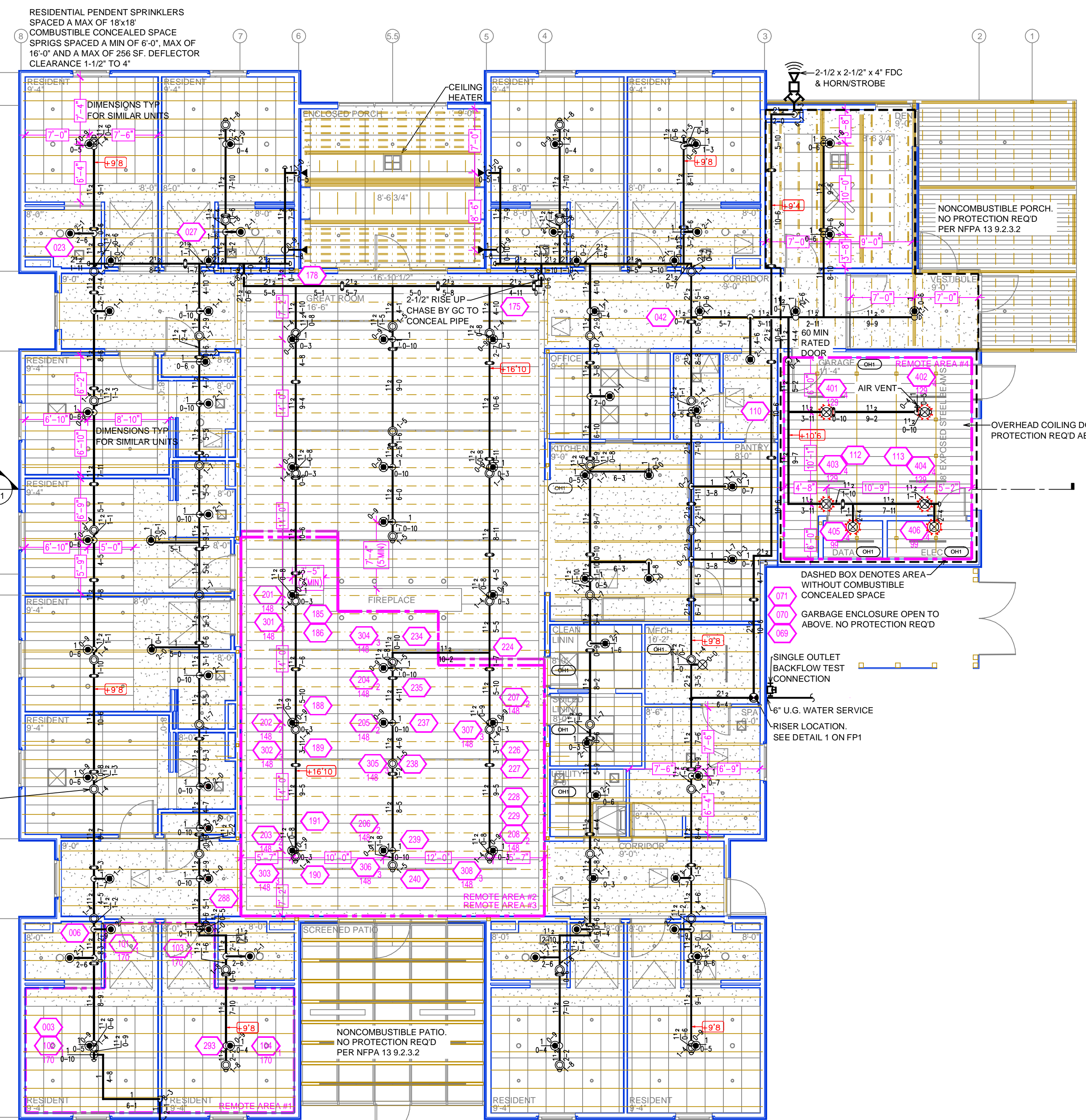
**Design Area # 1 HAZARD: LIGHT**  
Zone: 1 System Type: WET  
Location: RESIDENT  
Flowing Outlets: 4  
Density: 0.10 Remote Area: 487  
Flow: 168.8 gpm @ 32.5 psi  
Calculation Safety: 22.5 psi  
Includes 100 gpm Hose allowance

**Design Area # 2 HAZARD: LIGHT**  
Zone: 1 System Type: WET  
Location: GREAT ROOM  
Flowing Outlets: 8  
Density: 0.10 Remote Area: 1142  
Flow: 234.8 gpm @ 39.9 psi  
Calculation Safety: 15.1 psi  
Includes 100 gpm Hose allowance

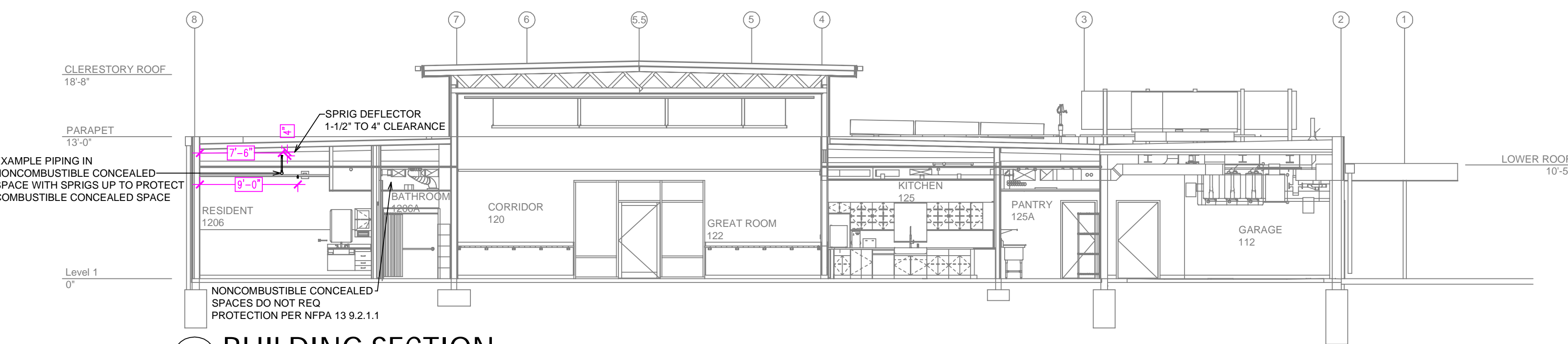
**Design Area # 3 HAZARD: LIGHT**  
Zone: 1 System Type: WET  
Location: CONCEALED SPACE  
Flowing Outlets: 8  
Density: 0.10 Remote Area: 1126  
Flow: 235.6 gpm @ 40.6 psi  
Calculation Safety: 14.4 psi  
Includes 100 gpm Hose allowance

**Design Area # 4 HAZARD: OH1**  
Zone: 1 System Type: WET  
Location: GARAGE  
Flowing Outlets: 6  
Density: 0.15 Remote Area: 454  
Flow: 369.7 gpm @ 49.7 psi  
Calculation Safety: 5.2 psi  
Includes 250 gpm Hose allowance

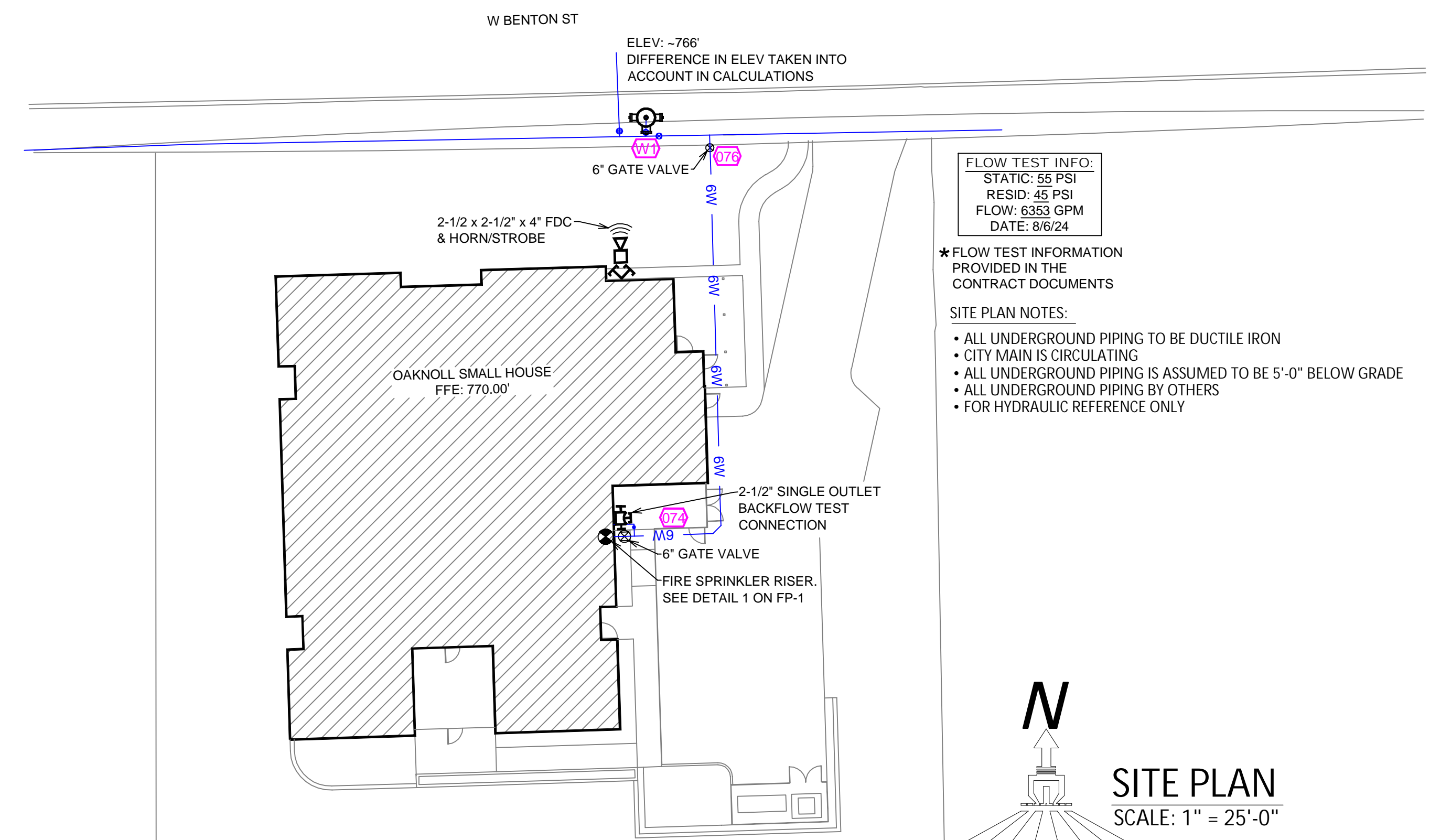
SPRINKLER PIPING INSTALLED IN NON-COMBUSTIBLE CONCEALED SPACE ABOVE CEILING. UPRIGHT SPRINKLERS ON 1" SPIRIGS COVER COMBUSTIBLE CONCEALED SPACE ABOVE. TYP. SEE BUILDING SECTION A ON FP-1 FOR DETAILS.



## FIRE PROTECTION PLAN SCALE: 1/8" = 1'-0"



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

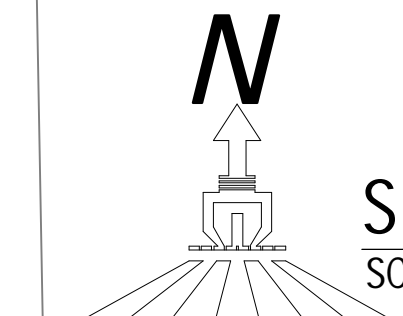


FLOW TEST INFO:  
STATIC: 55 PSI  
RESID: 45 PSI  
FLOW: 6353 GPM  
DATE: 8/9/24

\* FLOW TEST INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS

### SITE PLAN NOTES:

- ALL UNDERGROUND PIPING TO BE DUCTILE IRON
- CITY MAIN IS CIRCULATING
- ALL UNDERGROUND PIPING IS ASSUMED TO BE 5'-0" BELOW GRADE
- ALL UNDERGROUND PIPING BY OTHERS
- FOR HYDRAULIC REFERENCE ONLY



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

DATE	REVISION	DESCRIPTION	WATER TEST INFORMATION	PIPE TYPES AND FITTING TYPES	MAXIMUM DISTANCE BETWEEN HANGERS	SYMBOLS / ABBREVIATIONS	NOTE:																																																																																																													
1/12/25			<table border="1"> <tr> <th>Flowing (GPM)</th> <th>Static (PSI)</th> <th>Residual (PSI)</th> <th>Flow (GPM)</th> <th>Date</th> </tr> <tr> <td>6353</td> <td>55</td> <td>45</td> <td>6353</td> <td>8/9/24</td> </tr> </table>	Flowing (GPM)	Static (PSI)	Residual (PSI)	Flow (GPM)	Date	6353	55	45	6353	8/9/24	<table border="1"> <tr> <th>NOMINAL PIPE SIZE (IN)</th> <th>1"</th> <th>1 1/4"</th> <th>1 1/2"</th> <th>2"</th> <th>2 1/2"</th> <th>3"</th> <th>4"</th> <th>6"</th> <th>8"</th> </tr> <tr> <td>STEEL PIPE EXCEPT THREADED LIGHT WALL</td> <td>N/A</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> </tr> <tr> <td>THREADED LIGHT WALL STEEL PIPE</td> <td>N/A</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> </tr> <tr> <td>STEEL PIPE EXCEPT THREADED HEAVY WALL</td> <td>N/A</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> </tr> <tr> <td>THREADED HEAVY WALL STEEL PIPE</td> <td>N/A</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> <td>12.0</td> </tr> <tr> <td>COPPER</td> <td>N/A</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> <td>10.0</td> </tr> <tr> <td>EPIC</td> <td>N/A</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> </tr> <tr> <td>CPVC</td> <td>N/A</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>GLASS FIBER REINFORCED PLASTIC (FRP)</td> <td>N/A</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>FRP</td> <td>N/A</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> </table>	NOMINAL PIPE SIZE (IN)	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	STEEL PIPE EXCEPT THREADED LIGHT WALL	N/A	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	THREADED LIGHT WALL STEEL PIPE	N/A	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	STEEL PIPE EXCEPT THREADED HEAVY WALL	N/A	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	THREADED HEAVY WALL STEEL PIPE	N/A	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	COPPER	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	EPIC	N/A	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	CPVC	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	GLASS FIBER REINFORCED PLASTIC (FRP)	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	FRP	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	<ul style="list-style-type: none"> <li>EXISTING SPRINKLER PIPE</li> <li>BRANCHLINE</li> <li>SPRINKLER MAIN</li> <li>HYDRAULIC REFERENCE POINT</li> <li>0" TS DENOTES CL OF PIPE ABOVE FINISH FLOOR</li> <li>* 0" TS DENOTES CL OF SPRING BELOW DECK</li> <li>1" TS DENOTES CL OF SPRING BELOW DECK</li> <li>2" TS DENOTES CL OF SPRING BELOW DECK</li> <li>3" TS DENOTES CL OF SPRING BELOW DECK</li> 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DECK</li> <li>25" TS DENOTES CL OF SPRING BELOW DECK</li> <li>26" TS DENOTES CL OF SPRING BELOW DECK</li> <li>27" TS DENOTES CL OF SPRING BELOW DECK</li> <li>28" TS DENOTES CL OF SPRING BELOW DECK</li> <li>29" TS DENOTES CL OF SPRING BELOW DECK</li> <li>30" TS DENOTES CL OF SPRING BELOW DECK</li> <li>31" TS DENOTES CL OF SPRING BELOW DECK</li> <li>32" TS DENOTES CL OF SPRING BELOW DECK</li> <li>33" TS DENOTES CL OF SPRING BELOW DECK</li> <li>34" TS DENOTES CL OF SPRING BELOW DECK</li> <li>35" TS DENOTES CL OF SPRING BELOW DECK</li> <li>36" TS DENOTES CL OF SPRING BELOW DECK</li> <li>37" TS DENOTES CL OF SPRING BELOW DECK</li> <li>38" TS DENOTES CL OF SPRING BELOW DECK</li> <li>39" TS DENOTES CL OF SPRING BELOW DECK</li> <li>40" TS DENOTES CL OF SPRING BELOW DECK</li> <li>41" TS DENOTES CL OF SPRING BELOW DECK</li> <li>42" TS DENOTES CL OF SPRING BELOW DECK</li> <li>43" TS DENOTES CL OF SPRING BELOW DECK</li> <li>44" TS DENOTES CL OF SPRING BELOW DECK</li> <li>45" TS DENOTES CL OF SPRING BELOW DECK</li> <li>46" TS DENOTES CL OF SPRING BELOW DECK</li> <li>47" TS DENOTES CL OF SPRING BELOW DECK</li> <li>48" TS DENOTES CL OF SPRING BELOW DECK</li> <li>49" TS DENOTES CL OF SPRING BELOW DECK</li> <li>50" TS DENOTES CL OF SPRING BELOW DECK</li> <li>51" TS DENOTES CL OF SPRING BELOW DECK</li> <li>52" TS DENOTES CL OF SPRING BELOW DECK</li> <li>53" TS DENOTES CL OF SPRING BELOW DECK</li> <li>54" TS DENOTES CL OF SPRING BELOW DECK</li> <li>55" TS DENOTES CL OF SPRING BELOW DECK</li> <li>56" TS DENOTES CL OF SPRING BELOW DECK</li> <li>57" TS DENOTES CL OF SPRING BELOW DECK</li> <li>58" TS DENOTES CL OF SPRING BELOW DECK</li> <li>59" TS DENOTES CL OF SPRING BELOW DECK</li> <li>60" TS DENOTES CL OF SPRING BELOW DECK</li> <li>61" TS DENOTES CL OF SPRING BELOW DECK</li> <li>62" TS DENOTES CL OF SPRING BELOW DECK</li> <li>63" TS DENOTES CL OF SPRING BELOW DECK</li> <li>64" TS DENOTES CL OF SPRING BELOW DECK</li> <li>65" TS DENOTES CL OF SPRING BELOW DECK</li> <li>66" TS 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DEFLECTOR CLEARANCE 1'-1/2" TO 4"</p> <p>NONCOMBUSTIBLE PORCH NO PROTECTION REQ'D PER NFPA 13 9.2.3.2</p> <p>OVERHEAD CEILING DOOR NO PROTECTION REQ'D ABOVE</p> <p>DASHED BOX DENOTES AREA WITHOUT COMBUSTIBLE CONCEALED SPACE</p> <p>GARAGE ENCLOSURE OPEN TO ABOVE. NO PROTECTION REQ'D</p> <p>SINGLE OUTLET BACKFLOW TEST CONNECTION</p> <p>6" U.G. WATER SERVICE RISER LOCATION SEE DETAIL 1 ON FP-1</p>
Flowing (GPM)	Static (PSI)	Residual (PSI)	Flow (GPM)	Date																																																																																																																
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EPIC	N/A	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0																																																																																																											
CPVC	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5																																																																																																											
GLASS FIBER REINFORCED PLASTIC (FRP)	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5																																																																																																											
FRP	N/A	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5																																																																																																											