|  |  |
| --- | --- |
| **Hydraulic Design.** | **Walmart #5235** |
| **System #1** | **Area 2: Tire Sales** |
| Sprinklers calculated | 12 | Sprinklers |
| Sprinkler Density Req’d | 15 | GPM/Sq. Ft. |
| Area of discharge | 12 | Sq. Ft. |
| Hose Allowance | 250 | GPM |
| Sprinkler System Demand | 1442 | GPM |
| Demand pressure | 48.6 | psi |
| Safety factor | 15.8 | psi |

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| **Hydraulic Design.** | **Walmart #5235** |
| **System #1** | **Area 3: Garden Centre** |
| Sprinklers calculated | 30 | Sprinklers |
| Sprinkler Density Req’d | 0.30 | GPM/Sq. Ft. |
| Area of discharge | 2600 | Sq. Ft. |
| Hose Allowance | 500 | GPM |
| Sprinkler System Demand | 1465 | GPM |
| Demand pressure | 47.3 | psi |
| Safety factor | 17.0 | psi |

Missing **System 2 and 3**

|  |  |
| --- | --- |
| **Hydraulic Design.** | **Walmart #5235** |
| **System #4** | **Area 5: Vestibule**  |
| Sprinklers calculated | 16 | Sprinklers |
| Sprinkler Density Req’d | 0.20 | GPM/Sq. Ft. |
| Area of discharge | Area not verified | Sq. Ft. |
| Hose Allowance | 250 | GPM |
| Sprinkler System Demand | 669 | GPM |
| Demand pressure | 62.4 | psi |
| Safety factor | 13.0 | psi |

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| **Hydraulic Design.** | **Walmart #5235** |
| **System #5** | **Area 6: Retail Sales**  |
| Sprinklers calculated | 14 | Sprinklers |
| Sprinkler Density Req’d | 0.425 | GPM/Sq. Ft. |
| Area of discharge | 2000 | Sq. Ft. |
| Hose Allowance | 500 | GPM |
| Sprinkler System Demand | 1562 | GPM |
| Demand pressure | 46.1 | psi |
| Safety factor | 16.4 | psi |

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| **Hydraulic Design.** | **Walmart #5235** |
| **System #6** | **Area 4: Stock room**  |
| Sprinklers calculated | 22 | Sprinklers |
| Sprinkler Density Req’d | 0.32 | GPM/Sq. Ft. |
| Area of discharge | 2000 | Sq. Ft. |
| Hose Allowance | 500 | GPM |
| Sprinkler System Demand | 1198 | GPM |
| Demand pressure | 28.5 | psi |
| Safety factor | 40.3 | psi |

Six inch diameter.

I am missing two riser data

There are **Six** Wet Suppression Riser systems and **two** Dry Riser systems.

One Dry Valve in Ceiling in front Centre hall. The other Dry valve is in the Garden Centre.