**CMGT 235 – Electrical and Mechanical Systems**

Department of Construction Management 🏵 California State University, Chico

Homework #18– Fire Protection Systems and Equipment

Points: 20

Due: 10/25/2022

Refer to the HomeGoods Distribution Center drawing set: HOMEGOODS DC - BID-PERMIT - FIRE PROTECTION SET.pdf and the HomeGoods Distribution Specifications. Reference clearly where all answers were found.

1. What type of fire sprinkler is an ESFR Sprinkler?

Early Suppression Fast Response

www.vfpfire.com

1. Where in the specifications can you find the specs for the Wet Pipe Fire Sprinkler System?

Division 21, Section 21 1313

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1. What shall be the minimum cushion or safety margin between the available water supply residual pressure and the calculated system demand pressure incorporated into all hydraulic calculations?

10 PSI

21 1313 4-16, 1.7 C. 7.

1. Using the Legend Identify each symbol shown:

|  |  |
| --- | --- |
|  | Power Supply for Notification Appliances |
|  | Horn/Strobe with Candela Rating |
|  | Sprinkler Design Schedule Item |
|  | Smoke Detector, Photoelectric Type |
|  | Duct Smoke Detector |

1. What is the candela rating for the strobes in the main restroom?

60 candelas

F-2.1, Detail 4, Main Restroom Fire Alarm Plan

1. How many horn/strobe output devices are installed in the main office area?

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F-2.1, Detail 2, Main Office Fire Alarm Plan