

FIRE AND SAFETY PROJECT REVIEW REPORT

| Review By: Keith Heckler, P.E. Stanton Engineering Services | | Phone No.: (410) 290-9301 Fax No.: (410) 290-9305 | Date Drawings Received: 02/11/13 | Date Reviewed: 02/15/13 | Date Comments Transmitted: 02/20/13 |
|---|----------------------------|--|--|---|---|
| Facility: VAMC Dayton, OH | | Point of Contact Person & Phone No.: Mark Permelia (937) 268-6511 x 2810 Project Title (%): Modernize HVAC, B-115 | | Date on Dwgs: 01/31/13 Project No: 552-13-301 | SES Project No.: 211-12.42 |
| ITEM NO: | REFERENCE DWG OR SPEC | COMMENTS (*Indicates Advisory Comments) (** Indicates Mandatory Requirements) | REFERENCE CODE OR STD. (* With Year of Ed.) | RESOLUTION (<i>Provided by MC or A/E</i>) | |
| 1 | Sheet A-1 | **New shafts must be 1 hour fire rated through the extent of the shaft. Creating shafts with non-fire rated walls and placing fire dampers at the multiple non-fire rated floors is not permitted by NFPA 90A, Section 5.3.4. | NFPA 90A (2012) | This requirement will be met with fire barrier duct wrap which serves as a fire rated enclosure and provides a 2-hr rating. | |
| 2 | Sheet E-1 | **Duct smoke detector must be connected to the building fire alarm system, if equipped with one. No reference or direction to contractor is provided. NFPA 90A, Section 6.4.4.2 If no fire alarm system is provided, then designate and show where and how the activation of the duct smoke detector will cause a visual and audible signal in a normally occupied area per Section 6.4.4.3 | NFPA 90A (2012) | Building has an existing fire alarm system. See sheet E0, General Notes, note D. “CONNECT SMOKE DUCT DETECTORS TO EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY BOOSTER PANELS, SYSTEM PROGRAMMING, RELAYS, ETC FOR COMPLETE OPERATING SYSTEM.” This note directs the contractor to connect to the existing fire alarm system. | |
| 3. | Sheet E-2 | **No emergency manual control shut off switch/button is provided or shown. The means of manual operation is normally located at the main entrance near the fire alarm annunciator panel so the fire department can shut down the distribution of air immediately. Normally, a mushroom push button control is labeled and provided. | NFPA 90A (2012) | Added to drawings. | |
| 4. | Sheet M00 General Notes | **Smoke detectors shall be specifically listed for use in air distribution systems and in accordance with UL 268A. Standard smoke detectors will not be sufficient. NFPA 72, Section 17.5.5.1 | NFPA 72 (2013) | This wording will be added to the general notes. | |
| 5. | Sheet M00 General Notes | **Fire dampers shall be listed in accordance with UL555 and have a minimum of 1-1/2 hour fire rating per NFPA 90A, Section 5.4.1.1 | NFPA 90A (2012) | This wording will be added to the general notes. . | |
| 6. | Sheet M00 General Notes | **Fusible links for fire dampers shall not rated for temperatures less than 160°F. NFPA 90A, 5.4.5.2.2 | NFPA 90A (2012) | This wording will be added to the general notes. | |
| 7. | Sheet M00 General Notes | **Fire dampers shall be installed, inspected and tested in accordance with Chapter 19 of NFPA 80. NFPA 90A, Section 5.4.7.1 | NFPA 80 (2013) | This wording will be added to the general notes. | |
| 8. | Sheet M00 General Notes | ** Dampers equipped with fusible links, internal operators, or both shall be provided with an access door that is not less than 12 in. (305 mm) square or provided with a removable duct section. NFPA 80, Section 19.2.3 | NFPA 80 (2013) | This wording will be added to the general notes. | |

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| 9. | Sheet M00 General Notes | **The damper access panel shall be labeled with the words "Fire Damper" in letters not less than 1 in. (25 mm) in height. NFPA 80, Section 19.2.3.2 | NFPA 80 (2013) | This wording will be added to the general notes. | |