

- DISPOSAL OF ACM FLOOR TILES AND MASTIC.
- 3







|   | y Code - 90.1 (2016) Standard  | Quantity System Type & Description         10       Ceiling Cassette, 12 MBH         Cooling: 10 each - VRF Zone Fan Unit, Capacity = 12 kBtu/h         No minimum efficiency requirement applies         SYSTEM VERIFICATION REQUIRED.         7       Ceiling Cassette, 6 MBH         Cooling: 7 each - VRF Zone Fan Unit, Capacity = 6 kBtu/h         No minimum efficiency requirement applies   | COMcheck Software Version COMcheckWeb<br>Inspection Checklist<br>Energy Code: 2020 NYStretch Energy Code - 90.1 (2016) Standard<br>Requirements: 100.0% were addressed directly in the COMcheck software<br>Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each<br>requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception<br>is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.   |  |  |
|---|--|--|---|--|--|
| oject Title: UNIVENT REPLACEMEN<br>cation: West Haverstraw, New<br>mate Zone: 5a<br>oject Type: Alteration  | IT WEST HAVERSTRAW ELEMENTARY SCHOOL<br>v York   | <ul> <li>SYSTEM VERIFICATION REQUIRED.</li> <li>Wall Mount, 6 MBH</li> <li>Cooling: 4 each - VRF Zone Fan Unit, Capacity = 6 kBtu/h</li> <li>No minimum efficiency requirement applies</li> </ul>  | Section     Plan Review     Complies?     Comments/Assumptions       4.2.2,     Plans, specifications, and/or     □Complies     Requirement will be met.  |  |  |
| struction Site: Owner/Agent:<br>BLAUVELT AVE NORTH ROCKLAND 0<br>EST HAVERSTRAW, New York SCHOOL DISTRICT<br>993 65 CHAPEL STREET<br>GARNERVILLE 1092:<br>845-942-3000  | 2 EXECUTIVE BLVD<br>SUFFERN 10901  | SYSTEM VERIFICATION REQUIRED.<br>12 Wall Mount, 24 MBH<br>Cooling: 12 each - VRF Zone Fan Unit, Capacity = 24 kBtu/h<br>No minimum efficiency requirement applies<br>SYSTEM VERIFICATION REQUIRED.   | <ul> <li>4.2.2, Plans, specifications, and/or</li> <li>6.4.4.2.1, calculations provide all information</li> <li>6.7.2 with which compliance can be</li> <li>[PR2]<sup>1</sup> determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and</li> </ul>  |  |  |
| hanical Systems List<br>ntity System Type & Description<br>ACCU-1A, ACCU-1B, ACCU-3A, ACCU-3B<br>VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat<br>Heating Mode: Capacity = 216 kBtu/h,<br>Proposed Efficiency = 3.73 COP, Required Efficiency<br>Cooling Mode: Capacity = 243 kBtu/h,   |  | <ul> <li>2 100% OA unit</li> <li>Cooling: 2 each - VRF Zone Fan Unit, Capacity = 30 kBtu/h<br/>No minimum efficiency requirement applies</li> <li>SYSTEM VERIFICATION REQUIRED.</li> </ul> Mechanical Compliance Statement   | 4.2.2, 8.7       Plans, specifications, and/or       Complies       Requirement will be met.         [PR6] <sup>2</sup> Plans, specifications, and/or       Complies       Not Observable         with which compliance can be       determined for the electrical systems and equipment and document where exceptions are claimed. Feeder       Not Observable   |  |  |
| Proposed Efficiency = 10.45 EER, Required Efficienc<br>Proposed Part Load Efficiency = 20.90 IEER, Require<br>Fan System: None<br>SYSTEM VERIFICATION REQUIRED.   |  | Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2020 NYStretch Energy Code - 90.1 (2016) Standard requirements in COM <i>check</i> Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.   | approved plans and branch circuits sized for maximum drop of 5%.       Complies       Requirement will be met.         6.7.2.4       Detailed instructions for HVAC       Complies       Requirement will be met.         [PR5] <sup>1</sup> systems commissioning included on the plans or specifications for projects s=50.000 ft2.       Not Observable       Location on plans/spec: M-001  |  |  |
| <ul> <li>ACCU-2, ACCU-6</li> <li>VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat<br/>Heating Mode: Capacity = 288 kBtu/h,<br/>Proposed Efficiency = 3.36 COP, Required Efficiency<br/>Cooling Mode: Capacity = 320 kBtu/h,<br/>Proposed Efficiency = 9.35 EER, Required Efficiency<br/>Proposed Part Load Efficiency = 20.10 IEER, Require<br/>Fan System: None</li> <li>SYSTEM VERIFICATION REQUIRED.</li> </ul>   | = 3.20 COP<br>= 9.30 EER   | Name - Title Date Date   | >=50,000 ft2.   Additional Comments/Assumptions:  |  |  |
| ACCU-4, ACCU-5<br>VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat<br>Heating Mode: Capacity = 240 kBtu/h,<br>Proposed Efficiency = 3.52 COP, Required Efficiency<br>Cooling Mode: Capacity = 270 kBtu/h,<br>Proposed Efficiency = 9.85 EER, Required Efficiency<br>Proposed Part Load Efficiency = 20.00 IEER, Require<br>Fan System: None  | = 3.20 COP<br>= 9.30 EER   |  | Section<br>#<br>& Req.ID       Footing / Foundation Inspection       Complies?       Comments/Assumptions         6.4.3.7<br>[FO9] <sup>3</sup> Freeze protection and snow/ice<br>melting system sensors for future<br>connection to controls.       Complies       Exception: Requirement does not apply.         0.005 Not       Does Not       Does Not       Not Observable         0.Not Applicable       Not Applicable       Not Applicable  |  |  |
| <ul> <li>SYSTEM VERIFICATION REQUIRED.</li> <li>ACCU-7</li> <li>VRF Condensing Unit, Air Cooled w/ Heat Recovery Heating Mode: Capacity = 72 kBtu/h,<br/>Proposed Efficiency = 4.31 COP, Required Efficiency</li> <li>Cooling Mode: Capacity = 80 kBtu/h,<br/>Proposed Efficiency = 14.50 EER, Required Efficience</li> <li>Proposed Part Load Efficiency = 28.90 IEER, Requiree</li> <li>Fan System: None</li> </ul>   | = 3.30 COP<br>y = 10.80 EER  |  |   |  |  |
| ran system. None  |  |  |   |  |  |
| SYSTEM VERIFICATION REQUIRED.<br>oject Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELE<br>ta filename:   | MENTARY SCHOOL Report date: 04/08/24<br>Page <u>1</u> of 8   | Project Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL Report date: 04/08/24<br>Data filename: Page 2 of 8   | 1       High Impact (Tier 1)       2       Medium Impact (Tier 2)       3       Low Impact (Tier 3)         Project Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL       Report date: 04/08/24         Data filename:       Page 3 of 8   |  |  |
| SYSTEM VERIFICATION REQUIRED.         ect Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELE a filename:         a filename:       Mechanical Rough-In Inspection       Plans Verified Value         # total inspection       Plans Verified Value       Value         # total information >= R-3.5.       Plans Verified Value       Plans Verified Value         # total information >= R-3.5.       Plans Verified Value       Plans Verified Value         # total information >= R-3.5.       Plans Verified Value       Plans Verified Value         # total information >= R-3.5.       Plans Verified Value       Plans Verified Value         # total infore top perimeted DX-DOAS       Plans   | Field Verified<br>Value       Complies?       Comments/Assumptions         Complies       Exception: Requirement<br>does not apply.         Does Not       Exception: Requirement<br>does not apply.         Not Observable       Not Applicable         Not Observable       Exception: Requirement<br>does not apply.         Not Applicable       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Observable       Not Applicable         Not Applicable       Not Applicable         Not Applicable       Not Applicable         Not A  | Section       Mechanical Rough-In<br>Inspection       Plans Verified       Field Verified       Complies7       Comments/Assumptions         & Req.1D       Inspection       Value       Complies7       Comments/Assumptions         & Req.1D       HVAC pumping systems with >=       Complies7       Comments/Assumptions         IME2513       Sontrol values designed for<br>variable fluid flow (see section<br>details).       Complies7       Exception: Requirement<br>does not apply.         6.5.6.1       Exhaust air energy recovery on<br>ware up air >=50% of exhaust<br>air volume.       Complies7       Exception: Requirement<br>does not apply.         6.5.7.2.1       Kitchen hoods >5,000 cfm have<br>make up air >=50% of exhaust<br>air volume.       Complies7       Exception: Requirement<br>does not apply.         6.5.7.2.1       Kitchen hoods >5,000 cfm have<br>mechauste design air flow rates<br>air volume.       Complies7       Exception: Requirement<br>does not apply.         6.5.7.2.1       Kitchen hoods >5,000 cfm have<br>mechauste design air flow rates<br>air volume.       Complies7       Exception: Requirement<br>does not apply.         1. and 6.5.6.1-2.       Complies7       Exception: Requirement<br>does not apply.       Complies7       Exception: Requirement<br>does not apply.         1. and 6.5.6.1-2.       Complies7       Exception: Requirement<br>does not apply.       Complies7       Exception: Requirement<br>does not apply.         1. ME4019       uontainment pr  | Project Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL Report date: 04/08/24  |  |  |
| SYSTEM VERIFICATION REQUIRED.         ect Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELE         a filename:       Plans Verified         teq.ID       Mechanical Rough-In<br>Inspection       Plans Verified         4.1.4       Thermally ineffective panel<br>surfaces of sensible heating<br>panels have insulation >= R-3.5.       Plans Verified         4.2.1       Ducts and plenums having<br>pressure class ratings are Seal<br>Class A construction.       Image: Class A construction.         1-15,       Electrically operated DX-DOAS<br>units meet requirements per<br>Tables 6.8.1-15 or 6.8.1-16.       Image: Class A construction.         4.2.2       Ductwork operating >3 in. water<br>column requires air leakage<br>testing.       Image: Class A construction.         2.3       Dehumidification controls<br>provided to prevent reheating,<br>recooling, mixing of hot and cold<br>airstreams or concurrent heating<br>and cooling of the same<br>airstream.       Image: Class A construction is<br>and cooling of the same<br>airstream.         2.4.1       Humidifiers with airstream<br>mounted preheating jackets have<br>preheat auto-shutoff value set to<br>activate when humidification is<br>nor required.       Image: Class A construction is<br>activate when humidification is<br>activate when humidification is  | Field Verified<br>Value       Complies?       Comments/Assumptions         Complies       Exception: Requirement<br>does not apply.         Does Not       Exception: Requirement<br>does not apply.         Not Observable       Not Applicable         Not Observable       Exception: Requirement<br>does not apply.         Not Applicable       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Observable       Not Applicable         Not Applicable       Not Applicable         Not Applicable       Not Applicable         Not A  | Data filename:       Page 2 of 8         Section<br>& Req.D       Mechanical Rough-In<br>Inspection       Plans Verified<br>Value       Complies?       Comments/Assumptions         Section<br>& Req.D       Machanical Rough-In<br>Inspection       Plans Verified<br>Value       Complies?       Comments/Assumptions         Section<br>& Req.D       Mode not apply.       Complies       Exception: Requirement<br>does not apply.         Mission<br>(MSS)       Exhaust air energy recovery on<br>systems meeting Tables 6.5.6.1       Complies       Exception: Requirement<br>does not apply.         6.5.7.2.1       Rife in poors > 5.000 cfm have<br>make up or> =0% of exhaust<br>air volume.       Complies<br>(Complies)       Exception: Requirement<br>does not apply.         6.5.7.2.2.1       Approved field test used to<br>exhaust systems.       Complies<br>(Complies)       Exception: Requirement<br>does not apply.         6.5.7.2.2.1       Mise up or> =0% of exhaust<br>air volume.       Complies<br>(Complies)       Exception: Requirement<br>does not apply.         6.5.7.2.3       Kitche hoods > 5.000 cfm have<br>make up or> =0% of exhaust<br>air volume.       Complies<br>(Complies)       Exception: Requirement<br>does not apply.         6.5.7.2.4       Approved field test used to<br>exhaust systems.       Complies<br>(Complies)       Exception: Requirement<br>does not apply.         Missalp       Container for vestibule sand air<br>include automatic controls that<br>and demonstrate proper capture<br>and controls that applicable       Complies<br>(Except  | Project Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL       Report date: 04/08/24         Page 3 of 8         Section       Rough-In Electrical Inspection       Complies?         Kender Strange       Complies?       Comments/Assumptions         Kender Strange       Complies       Exception: Requirement does not apply.         Not Applicable       Not Applicable       Exception: Requirement does not apply.         Itelast is monitored separately. In buildings with a digital control system the energy use is transmited to to control system and displayed graphically.       Exception: Requirement will be met.         Itelast       Electric motors meet requirements       Complies       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast is monitored separately. In buildings with a digital control system       Itelast Report able       Exception: Requirement will be met.         Itelast       Itelast is non tools meet requirements       Itelast Report able       Itelast Report able         Itelast       Itelast is non tools with a digital control system and displayed graphically.       Itelast Requirement will be met. |  |  |
| SYSTEM VERIFICATION REQUIRED.         SYSTEM VERIFICATION REQUIRED.         act Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELE<br>ifilename:         dilename:       Mechanical Rough-In<br>inspection       Plans Verified<br>Value         #teq.ID       Mechanical Rough-In<br>inspection       Plans Verified<br>Value         4.1.4       Thermally ineffective panel<br>surfaces of sensible heating<br>panels have insulation >= R-3.5.       Plans Verified<br>Value         4.2.1       Ducts and plenums having<br>pressure class ratings are Seal<br>Class A construction.       Image: Class and plenums having<br>pressure class ratings are Seal<br>Class A construction.         1.15.       Electrically operated DX-DOAS<br>units meet requirements per<br>column requires air leakage<br>testing.       Ductwork operating >3 in. water<br>column requires air leakage<br>testing.         2.3.       Dehumidification controls<br>provided to prevent reheating,<br>recoling of the same<br>and cooling of the same<br>and cooling of the same<br>and cooling of the same<br>airstreams or concurrent heating<br>and cooling of the same<br>airstreams or concurrent heating<br>and cooling of the same<br>airstreams of ducts or air-<br>handling units insulated >= R-<br>.o.5.       Preheat colis controlled to stop<br>heat auto-shutoff value set to<br>activate when humidification is<br>not required.         2.4.2.4       Humidification system dispersion<br>tube hot surfaces in the<br>airstreams of ducts or air-<br>handling units insulated >= R-<br>.o.5.       Preheat colis controlled to stop<br>heat auto-shuto whenever<br>mechanical cooling, including<br>economizer operation, is active.  | Field Verified<br>Value       Complies?       Comments/Assumptions         Complies       Exception: Requirement<br>does not apply.       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Applicable       Exception: Requirement<br>does not apply.         Not Applicable       Exception: Requirement<br>does not apply.         Not Observable       Complies         Complies       Exception: Requirement<br>does not apply.         Not Observable       Complies         Complies       Exception: Requirement<br>does not apply.         Not Observable       Does Not         Does Not       Exception: Requirement<br>does not apply.         Not Observable       Does Not         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Observable       Not Observable         Not Observable  | Data filename:     Page 2 of 8       Section<br>#     Mechanical Bough-In<br>inspection     Plans Verified<br>Value     Field Verified<br>Value     Complies7     Comments/Assumptions       Section<br>#     MAC pumping systems with >=<br>3 control values designed for<br>variable fluid for vises section<br>lealab.     Plans Verified<br>Value     Field Verified<br>Value     Complies7     Comments/Assumptions       Section<br>#     3 control values designed for<br>variable fluid for vises section<br>lealab.     Complies7     Exception: Requirement<br>does not apply.       S.5.2.1<br>1. and S.5.3.1<br>2. and S.5.3.1<br>2. and S.5.3.1     Complies7     Exception: Requirement<br>does not apply.       S.5.2.2.1<br>8.5.2.2.1<br>1. and S.5.3.1     Complies7     Exception: Requirement<br>does not apply.       S.5.2.1<br>1. and S.5.3.1     Complies7     Exception: Requirement<br>does not apply.       S.5.2.1<br>1. and S.5.3.1     Complies7     Exception: Requirement<br>does not apply.       S.5.2.1<br>1. and Containment of Kitchen<br>end demonstrate proper capture<br>and containment of Kitchen<br>exhaust systems.     Complies7     Exception: Requirement<br>does not apply.       S.5.3.1<br>1. Unenclosed spaces that are<br>end end stating systems with<br>include automatic controls that<br>shat drift hearing system with<br>include automatic controls that<br>thermisstat in the vestibule with<br>heating actioning controls that<br>thermisstat in the vestibule with<br>heating actioning controls that<br>thermisstat in the vestibule with<br>heating actioning controls that<br>thermisstatin the vestibule with<br>heating actioning controls that<br>thermisstatin the vestibule with<br>heatathy controls that<br>thermisstatin the vestibule with<br>heatin | Project Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL       Report date: 04/08/24         Page 3 of 8         Section       Rough-In Electrical Inspection       Complies?         Kender Strange       Complies?       Comments/Assumptions         Kender Strange       Complies       Exception: Requirement does not apply.         Not Applicable       Not Applicable       Exception: Requirement does not apply.         Itelast is monitored separately. In buildings with a digital control system the energy use is transmited to to control system and displayed graphically.       Exception: Requirement will be met.         Itelast       Electric motors meet requirements       Complies       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast is monitored separately. In buildings with a digital control system       Itelast Report able       Exception: Requirement will be met.         Itelast       Itelast is non tools meet requirements       Itelast Report able       Itelast Report able         Itelast       Itelast is non tools with a digital control system and displayed graphically.       Itelast Requirement will be met. |  |  |
| SYSTEM VERIFICATION REQUIRED.         ject Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELE         a filename:       Mechanical Rough-In<br>Inspection       Plans Verified         # Req.ID       Mechanical Rough-In<br>Inspection       Plans Verified         Juncts       Sensible heating<br>panels have insulation >= R-3.5.       Plans Verified         4.4.1.4       Thermally ineffective panel<br>surfaces of sensible heating<br>panels have insulation >= R-3.5.       Plans Verified         4.4.2.1       Ducts and plenums having<br>pressure class ratings are Seal<br>Class A construction.       Second<br>Second<br>Second Second Secon | Field Verified<br>Value       Complies?       Comments/Assumptions         Complies       Exception: Requirement<br>does not apply.       Exception: Requirement<br>does not apply.         Not Observable       Not Observable         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Streption: Requirement<br>does not apply.         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Streption: Requirement<br>does not apply.         Not Observable       Exception: Requirement<br>does not apply.         Not Observable       Streption: Requirement<br>does not apply.         Not Observable | Section       Mechanical Rough-In       Plans Verified       Field Verified       Comples         Section       impaction       Plans Verified       Field Verified       Comples         Section       Impaction       Plans Verified       Value       Comples         Social Section       Comples       Comples       Comples         Social Section       Comples       Exception: Requirement         Met23P       Approved field test used to       Comples       Exception: Requirement         Met34P       Approved field test used to       Comples       Exception: Requirement         Met34P       Approved field test used to       Comples       Exception: Requirement         Met34P       Approved field test used to       Comples       Exception: Requirement         Met34P       Approved field test used to       Comples       Exception: Requirement         Met34P       Heating for vestibules and air  | Project Title:       UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL       Report date: 04/08/24         Page 3 of 8         Section       Rough-In Electrical Inspection       Complies?         Kender Strange       Complies?       Comments/Assumptions         Kender Strange       Complies       Exception: Requirement does not apply.         Not Applicable       Not Applicable       Exception: Requirement does not apply.         Itelast is monitored separately. In buildings with a digital control system the energy use is transmited to to control system and displayed graphically.       Exception: Requirement will be met.         Itelast       Electric motors meet requirements       Complies       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast framestice to to Complies       Exception: Requirement will be met.       Exception: Requirement will be met.         Itelast       Itelast is monitored separately. In buildings with a digital control system       Itelast Report able       Exception: Requirement will be met.         Itelast       Itelast is non tools meet requirements       Itelast Report able       Itelast Report able         Itelast       Itelast is non tools with a digital control system and displayed graphically.       Itelast Requirement will be met. |  |  |

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL Report date: 04/08/24 Data filename: Page 5 of 8

Complies **Exception:** Requirement does not apply.

□Not Observable See the Mechanical Systems list International Systems list for values.

6.5.3.3 [ME42]<sup>3</sup> Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.

 

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

 Project Title: UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL Data filename:

| Field Verified<br>Value | Complies?                          | Comments/Assumptions                                       |
|-------------------------|------------------------------------|--|
|                         | □Complies<br>□Does Not             | Exception: Requirement does not apply.                     |
|                         | □Not Observable<br>□Not Applicable |  |
|                         | □Complies<br>□Does Not             | Exception: Requirement does not apply.                     |
|                         | □Not Observable<br>□Not Applicable |  |
|                         | □Complies<br>□Does Not             | Exception: Requirement does not apply.                     |
|                         | □Not Observable<br>□Not Applicable |  |
|                         | □Complies<br>□Does Not             | Exception: Requirement does not apply.                     |
|                         | □Not Observable<br>□Not Applicable |  |
|                         | □Complies<br>□Does Not             | Exception: Requirement does not apply.                     |
|                         | □Not Observable<br>□Not Applicable |  |
|                         | Complies<br>Does Not               | <b>Exception:</b> Requirement does not apply.              |
|                         | □Not Observable<br>□Not Applicable |  |
|                         |                                    |  |
|                         | □Complies<br>□Does Not             | <b>Exception:</b> Alteration project to existing building. |
|                         | □Not Observable<br>□Not Applicable |  |
| <br>                    | □Complies<br>□Does Not             | <b>Exception:</b> Requirement does not apply.              |
|                         | □Not Observable<br>□Not Applicable |  |

|                  | Rough-In Electrical Inspection   | Complies?  | Comments/Assumptions                             | Section<br>#<br>& Req.ID   | Final Inspection   | Complies?  | Comments/Assumption  |
|------------------|--|--|--|--|--|--|--|
| 20-A             | ast 50% of all 125 volt 15- and<br>mp receptacles are controlled by<br>utomatic control device.  | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | <b>Exception:</b> Requirement does not apply.    | 6.4.3.1.2<br>[FI3] <sup>3</sup>  |  | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                       |
| use<br>Wh<br>ter | w buildings have electrical energy<br>e measurement devices installed.<br>ere tenant spaces exist, each<br>ant is monitored separately. In<br>Idings with a digital control system | Complies<br>Does Not<br>Not Observable                       | <b>Exception:</b> Requirement does not apply.    | 6.4.3.2<br>[FI20] <sup>3</sup>   | Temperature controls have setpoint overlap restrictions.   | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                       |
| th<br>cc<br>gr   | e energy use is transmitted to to<br>ontrol system and displayed<br>aphically.   |  |  | 6.4.3.3.1<br>[FI21] <sup>3</sup>   | HVAC systems equipped with at least one automatic shutdown control.  | □Complies<br>□Does Not<br>□Not Observable                    | Requirement will be met.                                       |
|                  | ctric motors meet requirements<br>ere applicable.  | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.                         | 6.4.3.3.2<br>[FI22] <sup>3</sup>   | Setback controls allow automatic<br>restart and temporary operation as<br>required for maintenance.  | □Not Applicable<br>□Complies<br>□Does Not                    | Requirement will be met.                                       |
| al (             | Comments/Assumptions:  |  | 1  |  |  | □Not Observable<br>□Not Applicable                           |  |
|                  |  |  |  | 6.4.3.5<br>[FI5] <sup>3</sup>  | Heat pump controls prevent<br>supplemental electric resistance heat<br>from coming on when not needed.   | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.<br>Location on plans/spec: WHES M-005 |
|                  |  | 6.4.3.6<br>[FI6] <sup>3</sup>                                | 6.4.3.6<br>[FI6] <sup>3</sup>                    | When humidification and<br>dehumidification are provided to a<br>zone, simultaneous operation is<br>prohibited. Humidity control prohibits<br>the use of fossil fuel or electricity to<br>produce RH > 30% in the warmest<br>zone humidified and RH < 60% in the<br>coldest zone dehumidified. | Complies<br>Does Not<br>Not Observable<br>Not Applicable   | Requirement will be met.                                     |  |
|                  |  |  |  | 6.7.2.1<br>[FI7] <sup>3</sup>  | Furnished HVAC as-built drawings<br>submitted within 90 days of system<br>acceptance.  | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.                                       |
|                  |  |  |  | 6.7.2.2<br>[FI8] <sup>3</sup>  | Furnished O&M manuals for HVAC systems within 90 days of system acceptance.  | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.                                       |
| lec<br>vst       |  | Complies?  | Comments/Assumptions<br>Requirement will be met. | 6.7.2.3<br>[FI9] <sup>1</sup>  | An air and/or hydronic system<br>balancing report is provided for HVAC<br>systems serving zones >5,000 ft2 of<br>conditioned area.   |  | Requirement will be met.                                       |
| u<br>c           | rnished HVAC as-built drawings<br>bmitted within 90 days of system   | □Not Observable<br>□Not Applicable                           |  | 6.7.2.4<br>[FI10] <sup>1</sup>   | HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.  | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.                                       |
|                  |  |  | 10.4.3<br>[FI24] <sup>2</sup>                    | Elevators are designed with the proper lighting, ventilation power, and standby mode.  | Complies   | <b>Exception:</b> Requirement does not apply.                |  |
|                  |  |  |  | C408.2.4<br>[FI29] <sup>1</sup>  | Mechanical systems, Renewable<br>Systems, and SWH Commissioning:<br>Preliminary commissioning report<br>completed and certified by registered<br>design professional or approved |  | Requirement will be met.                                       |

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| Mechanical Rough-In<br>Inspection  | Plans Verified<br>Value | Field Verified<br>Value | Complies?  | Comments/Assumptions  |
|--|-------------------------|-------------------------|--|---|
| equipment efficiency<br>d. Non-NAECA HVAC<br>nent labeled as meeting   | Efficiency:             | Efficiency:             | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | <i>See the Mechanical Systems list for values.</i>  |
| nd elevator shaft vents<br>notorized dampers that<br>atically close.   |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Exception: Requirement does not apply.  |
| or air and exhaust systems<br>notorized dampers that<br>atically shut when not in<br>d meet maximum leakage<br>Check gravity dampers<br>allowed.   |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.<br><b>Location on plans/spec:</b><br>WHES M-004  |
| ed parking garage<br>ation has automatic<br>ninant detection and<br>ty to stage or modulate<br>550% or less of design<br>ty.   |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Exception: Requirement does not apply.  |
| ation fans >0.75 hp have<br>atic controls to shut off fan<br>not required.   |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.  |
| nd control ventilation<br>ed for spaces >500 ft2 and<br>eople/1000 ft2 occupant<br>y and served by systems<br>ir side economizer, auto<br>ating outside air damper<br>I, or design airflow >3,000        |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.<br><b>Location on plans/spec:</b><br>WHES M-005  |
| bling systems >= 75 kBtu/h<br>5 kBtu/h effective 1/2016)<br>illed-water and<br>rative cooling fan motor hp<br>designed to vary supply<br>flow as a function of load<br>imply with operational<br>ements. |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.<br>Location on plans/spec:<br>WHES M-005<br>See the Mechanical Systems list<br>for values. |
| tion exposed to weather<br>ted from damage.<br>tion outside of the<br>ioned space and associated<br>ooling systems is vapor<br>ant.  |                         |                         | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.  |
| ducts and plenums<br>ted per Table 6.8.2. Where<br>or plenums are installed in<br>ler a slab, verification may<br>to occur during Foundation<br>tion.  | R                       | R                       | Complies<br>Does Not<br>Not Observable<br>Not Applicable     | Requirement will be met.  |
| piping insulation thickness.<br>piping is installed in or<br>a slab, verification may<br>o occur during Foundation<br>tion.  | in.                     | in.                     | □Complies<br>□Does Not<br>□Not Observable<br>□Not Applicable | Requirement will be met.  |

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 UNIVENT REPLACEMENT WEST HAVERSTRAW ELEMENTARY SCHOOL Report date: 04/08/24 Page 4 of 8

IS NOT AWING INC 8 GREENMAN PEDERSEN, 2 executive bouleva suite 202 suffern, ny 10901 proj. no. : mny-230 Mechanica & Electric Engineer:

UNIVENT REPLACEMENT AT STONY POINT, THIELLS, WEST HAV ELEMENTARY SCHOOL SED# 50-02-01-06-0-014-XXX SED# 50-02-01-06-0-024-XXX SED# 50-02-01-06-0-024-XXX SED# 50-02-01-06-0-024-XXX ----

INC

GREENMAN PEDERSEN, 2 executive bouleva suite 202 suiteern, ny 10901

Structural Engineer:

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Drawing Title ENERGY CODE COMPLIANCE

WHES-EN-001 Drawing

No.