







STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-PLB-E  
 This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0, and §150.1(c)(8), and with requirements §150.2 for additions.

Project Name: Chipotle - Jefferson & Ave 50 Report Page: (Page 1 of 6)  
 Project Address: Chipotle - Jefferson & Ave 50 Date Prepared: 2023-02-23T10:07:27-05:00

**A. GENERAL INFORMATION**

|  |       |                 |    |
|--|-------|-----------------|----|
| 01 Project Location (city)   | Indio | 02 Climate Zone | 15 |
| 03 Occupancy Types Within Project (select all that apply):   |       |                 |    |
| <input checked="" type="checkbox"/> Nonresidential <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Hotel/Motel |       |                 |    |
| <input type="checkbox"/> State Building <input type="checkbox"/> Healthcare Facility <input type="checkbox"/> Other (Write in)         |       |                 |    |

**B. PROJECT SCOPE**  
 This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)(8), and §141.0(a), or §141.0(b)(2) for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

|  |  |   |
|--|--|---|
| 01   | 02   | 03  |
| My project consists of (check all that apply):   | System Type <sup>1,2</sup>   | System Components   |
| <input checked="" type="checkbox"/> New system (DHW system being installed for the first time in newly constructed building) | Central System (serving nonresidential spaces)   | <input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls |
| <input type="checkbox"/> System Alteration (equipment, distribution or controls)   | <input type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls |   |

<sup>1</sup>FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.  
<sup>2</sup> Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
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 Documentation Software: Energy Code Ace  
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**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**  
 This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

**Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces**

|    | Yes                                 | No                       | Not Applicable                      | Requirement   |
|----|-------------------------------------|--------------------------|-------------------------------------|---|
| 01 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Air release valve or vertical pump installation per §110.3(c)(4A)   |
| 02 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per §110.3(c)(4B)   |
| 03 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per §110.3(c)(4C)  |
| 04 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Isolation valves on both sides of the pump per §110.3(c)(4D)  |
| 05 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per §110.3(c)(4E)  |
| 06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per §110.3(c)(4F)   |
| 07 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For central systems serving multiple dwelling units, design includes two or more recirculation loops serving separate dwelling units per §150.1(c)(8)(ii) unless building has <=8 dwelling units. |

**Mandatory Pipe Insulation All Occupancies**

|    |                                     |  |
|----|-------------------------------------|--|
| 12 | <input checked="" type="checkbox"/> | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 :<br><ul style="list-style-type: none"> <li>Recirculating system piping, including supply and return piping of the water heater</li> <li>The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system</li> <li>Pipes that are externally heated</li> </ul> |
| 13 | <input checked="" type="checkbox"/> | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(i)(3)  |

**TABLE 120.3-A PIPE INSULATION THICKNESS**

| Fluid Temperature Range ( °F) | Conductivity Range (Btu-in per hour per ft² per °F) | Insulation Mean Rating Temp ( °F) | Nominal Pipe Diameter (in) |                  |                |
|-------------------------------|---|-----------------------------------|----------------------------|------------------|----------------|
|                               |   |                                   | < 1                        | 1 to < 1.5       | 1.5 to < 4     |
| 105-140                       | 0.22 - 0.28   | 100                               | 1.0 in or R-7.7            | 1.5 in or R-12.5 | 1.5 in or R-11 |

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**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

| 01                           | 02                   | 03       | 04                 |
|------------------------------|----------------------|----------|--------------------|
| Domestic Hot Water Equipment | Distribution Systems | Controls | Compliance Results |
| Table F                      | Table G              | Table H  |                    |
| Yes                          | Yes                  | Yes      | COMPLIES           |

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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**H. DOMESTIC HOT WATER CONTROLS**  
 This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)(8)

|    | Yes                                 | No                       | Not Applicable                      | Requirement   |
|----|-------------------------------------|--------------------------|-------------------------------------|---|
| 01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).                              |
| 02 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)(1) unless covered by California Plumbing Code 613.0.   |
| 03 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)(2) unless systems serves healthcare facility.   |
| 04 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)(8)(ii) or §150.2 for additions or alterations.   |
| 05 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RAA.4.9 per §150.1(c)(8).  |
| 06 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)(1)(H). |

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCC/

Form/Title  
 NRCC-PLB-01-E - Must be submitted for all buildings

**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no Certificates of Acceptance applicable to service water heating requirements.

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 There are no NRCV forms required for this project.

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**F. DOMESTIC HOT WATER EQUIPMENT**  
 This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.

**Equipment Schedule: Central Systems**

| 07               | 08                             | 09           | 10                           | 11                   | 12                              | 13              | 14                                 | 15                                |
|------------------|--------------------------------|--------------|------------------------------|----------------------|---------------------------------|-----------------|------------------------------------|-----------------------------------|
| Name or Item Tag | Equipment Type                 | Volume (gal) | Rated Input Capacity (Btu/h) | Rated Efficiency (%) | Minimum Efficiency Required (%) | Efficiency Unit | Designed Standby Loss <sup>1</sup> | Maximum Standby Loss <sup>1</sup> |
| DWH-1 & 2        | Gas Instantaneous Water Heater | 0.5          |                              | 0.96                 | 0.8                             | Et              |                                    |                                   |

<sup>1</sup>FOOTNOTE: For gas water heaters/boilers, standby loss is in BTUH. For electric storage water heaters, standby loss is in %/hr.

**Water Heating Equipment All Occupancies**

|    | Yes                                 | No                       | Not Applicable                      | Requirement   |
|----|-------------------------------------|--------------------------|-------------------------------------|---|
| 18 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)(3) |
| 19 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | New state buildings 60% of energy for service water heating from solar solar energy or recovered energy per §110.3(c)(5)  |
| 20 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Isolation valves for instantaneous water heater with input rating >6.8 kBtu/h or 2 kW has been specified per §110.3(c)(6) |

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Isaac Durin  
 Documentation Author Signature: Isaac Durin  
 Company: BAE Group  
 Address: 1425 Wakarusa Dr.  
 City/State/Zip: LawrenceKS66049

Signature Date: 23FEB23  
 CEAH/HERS Certification Identification (if applicable):  
 Phone: 785-993-0300

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following, under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Laura Blanchard, PE  
 Responsible Designer Signature: Laura Blanchard, PE  
 Company: BAE Group  
 Address: 1425 Wakarusa Dr.  
 City/State/Zip: LawrenceKS66049

Date Signed: M54017  
 License: 23FEB23  
 Phone: 785-993-0300

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 JEFFERSON & AVENUE 50  
 49-810 Jefferson St.  
 Indio, CA 92201

Issue Record:  
 02/28/2023 PERMIT ISSUE  
 08/24/2023 CONSTRUCTION ISSUE

Revisions:

Drawn: JJD  
 Checked: AJD

Project No:  
 231002

Contents:

MECHANICAL TITLE  
 24 COMPLIANCE

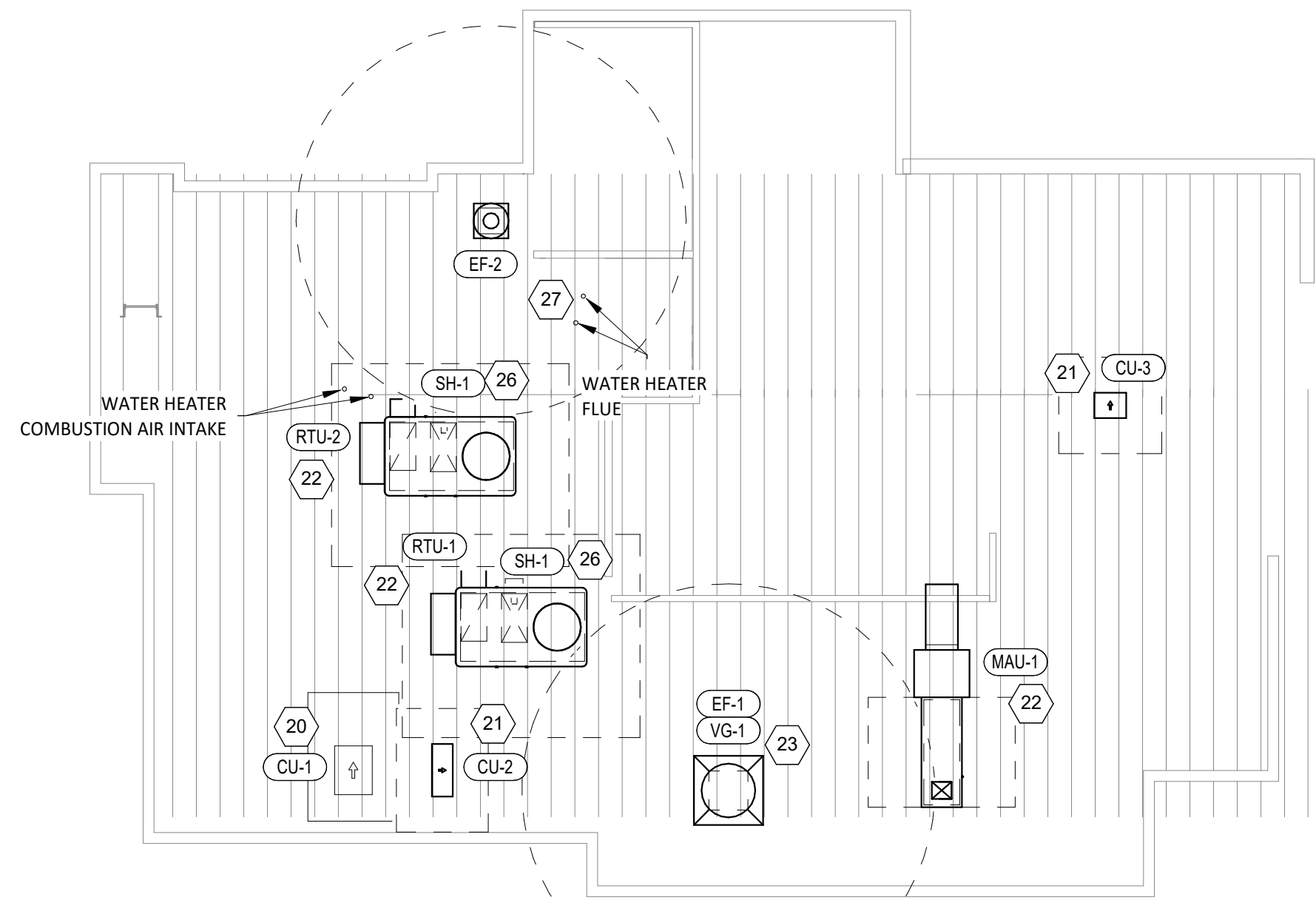
M022

**HVAC PLAN NOTES**

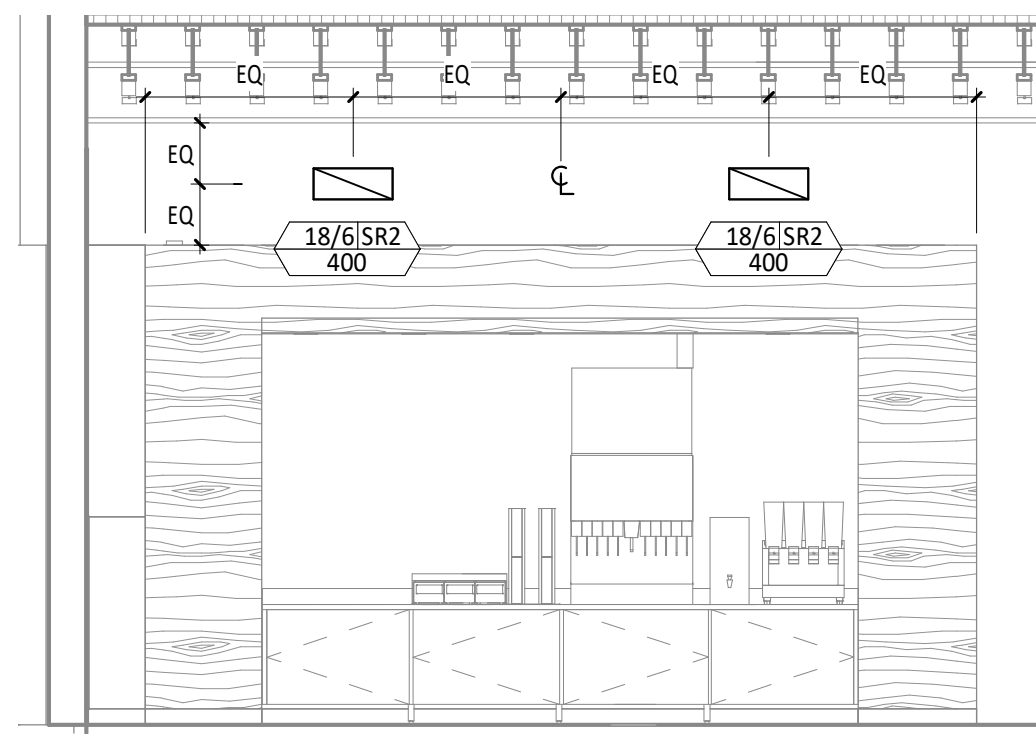
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- 26/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 26/16 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 24/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 26/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 10/20 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 24/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 66" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.

**HVAC PLAN NOTES**

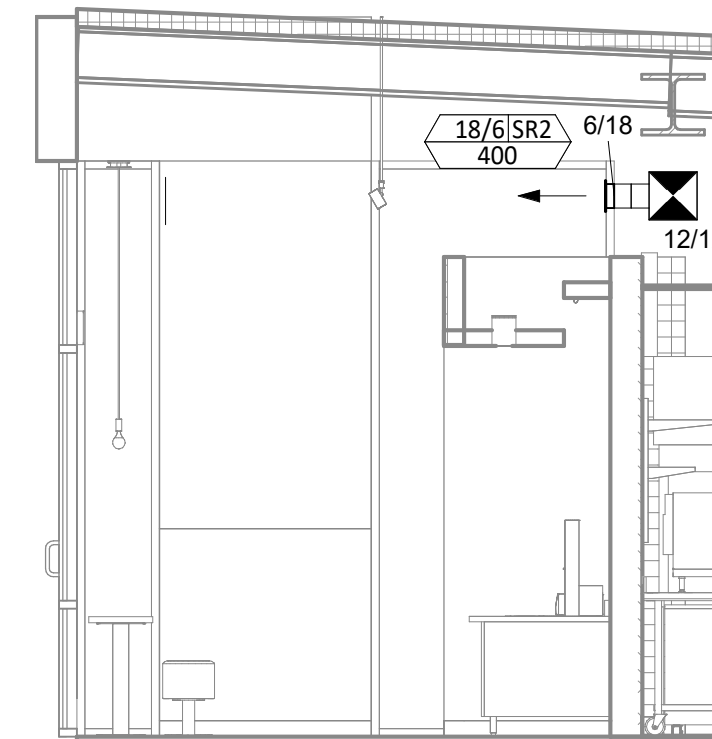
- INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, and 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1. PROVIDE EXTENSION AS NECESSARY SO THE TOP OF DISCHARGE IS EVEN WITH PARAPET HEIGHT.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



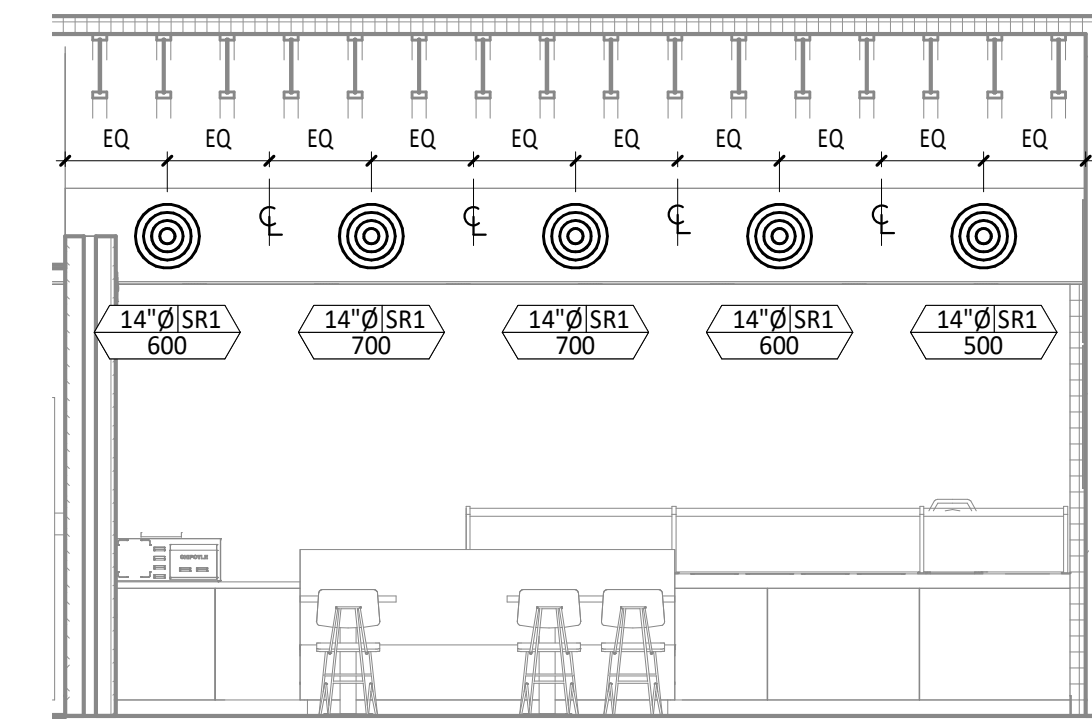
**HVAC ROOF PLAN**  
1/8" = 1'-0"



**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC FLOOR PLAN**  
1/4" = 1'-0"

Consultant:



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08/24/2023 CONSTRUCTION ISSUE

Revisions:

Drawn: JUD  
Checked: AJD

Project No:  
231002

Contents:

HVAC PLAN

M100

**SANITIZING EQUIPMENT SCHEDULE**

| TAG  | COUNT | DESCRIPTION                    | FURNISHED BY | INSTALLED BY | MANUFACTURER            | MODEL        | REMARKS  |
|------|-------|--------------------------------|--------------|--------------|-------------------------|--------------|--|
| SB-1 | 2     | BATHROOM AIR PURIFICATION UNIT | TUV          | GC           | RGF ENVIRONMENTAL GROUP | BRU ASSEMBLY | SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION |
| SH-1 | 2     | HVAC AIR PURIFICATION UNIT     | TUV          | GC           | RGF ENVIRONMENTAL GROUP | REME-HALO    | SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.  |

**VENTILATION SCHEDULE**

| Room Name | Area (SQ. FT.) | People / 1000 sq ft | sq ft / person | Code  | Actual People | Actual sqft/person | O/A CFM /Person | O/A CFM /SQ.FT | O/A CFM | E/A CFM |
|-----------|----------------|---------------------|----------------|-------|---------------|--------------------|-----------------|----------------|---------|---------|
| KITCHEN   | 1088           | 20                  | 50.00          | 20.00 | 10.0          | 108.8              | 7.5             | 0.12           | 205.6   | 3200.0  |
| DINING    | 764            | 70                  | 14.29          | 70.00 | 50.0          | 15.3               | 7.5             | 0.18           | 512.5   | -       |
| OFFICE    | 62             | 5                   | 200.00         | 5.00  | 1.0           | 62.0               | 5               | 0.06           | 8.7     | -       |
| RR        | -              | -                   | -              | -     | -             | -                  | -               | -              | -       | 200.0   |

**FAN SCHEDULE**

| TAG  | DESCRIPTION                    | AIRFLOW   | E.S.P.     | WEIGHT | ELECTRICAL  |          | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |          | REMARKS   |
|------|--------------------------------|-----------|------------|--------|-------------|----------|--------------|--------------|------------------|----------|---|
|      |                                |           |            |        | MOTOR POWER | V/P/H    |              |              | MANUFACTURER     | MODEL    |   |
| EF-1 | UPBLAST UL76Z EXHAUST FAN      | 2,550 CFM | 1.20 in-wg | 400 lb | 2 hp        | 208/3/60 | HS           | GC           | CAPTIVE-AIRE     | DU180HFA | DIRECT DRIVE UL76Z UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB                        |
| EF-2 | DOWNBLAST RESTROOM EXHAUST FAN | 150 CFM   | 0.60 in-wg | 100 lb | 0.18 hp     | 120/1/60 | HS           | GC           | CAPTIVE-AIRE     | DR12HFA  | DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB |

**VIROGUARD SCHEDULE**

| TAG  | COUNT | DESCRIPTION   | DUCT CONNECTION SIZE | FAN                   | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |
|------|-------|---|----------------------|-----------------------|--------------|--------------|------------------|
| VG-1 | 1     | VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM | 16" X 16"            | CAPTIVE-AIRE DU180HFA | TDC          | GC           | ENVIROMATIC      |

**CONDENSING UNIT SCHEDULE**

| TAG  | DESCRIPTION                               | NOMINAL CAPACITY | NUMBER OF   |          | REFRIGERANT |          | WEIGHT | ELECTRICAL |     |          | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |               | REMARKS                       |
|------|---|------------------|-------------|----------|-------------|----------|--------|------------|-----|----------|--------------|--------------|------------------|---------------|-------------------------------|
|      |   |                  | COMPRESSORS | CIRCUITS | TYPE        | CHARGE   |        | MOCP       | FLA | V/P/H    |              |              | MANUFACTURER     | MODEL         |                               |
| CU-1 | CONDENSING UNIT - WALK-IN COOLER          |                  | 1           | 1        | R-404A      | 10.4 lb  | 250 lb | 15 A       | 9 A | 208/3/60 | WCS          | GC           | HARFORD          | KPCL99MZOP-3E | FURNISHED WITH WALK-IN COOLER |
| CU-2 | REMOTE CONDENSER - LOW CAPACITY ICE MAKER |                  | 0           | 1        | R-404A      | 11.46 lb | 100 lb |            |     | 120/1/60 | KES          | GC           | HOSHIZAKI        | URC-9F        | FURNISHED WITH ICE MAKER      |
| CU-3 | REMOTE CONDENSER - SODA MACHINE ICE MAKER |                  | 0           | 1        | R-404A      | 3.86 lb  | 100 lb |            |     | 120/1/60 | KES          | GC           | HOSHIZAKI        | URC-5F        | FURNISHED WITH ICE MAKER      |

**MAKEUP AIR UNIT SCHEDULE**

| TAG   | DESCRIPTION                                 | AIRFLOW   | E.S.P.     | HEATING       |               |       | WEIGHT | ELECTRICAL  |          | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |              | REMARKS  |
|-------|---|-----------|------------|---------------|---------------|-------|--------|-------------|----------|--------------|--------------|------------------|--------------|--|
|       |   |           |            | INPUT         | OUTPUT        | EAT   |        | MOTOR POWER | V/P/H    |              |              | MANUFACTURER     | MODEL        |  |
| MAU-1 | DIRECT-FIRED MAKEUP AIR UNIT W/ EVAP COOLER | 1,300 CFM | 0.50 in-wg | 225,000 Btu/h | 220,000 Btu/h | 21 °F | 750 lb | 1 hp        | 208/3/60 | HS           | GC           | CAPTIVE-AIRE     | A1-D.250-15D | 12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, EVAP COOLER, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS |

**KITCHEN HOOD SCHEDULE**

| TAG  | DESCRIPTION  | MAX COOKING TEMP. | AIRFLOW   | E.S.P.     | EXHAUST PLENUM |       |         |            |         |          | PERFORATED SUPPLY PLENUMS |           |         |              |         |         | NO. OF LIGHT FIXTURES | WEIGHT | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |       | REMARKS      |                   |   |
|------|--|-------------------|-----------|------------|----------------|-------|---------|------------|---------|----------|---------------------------|-----------|---------|--------------|---------|---------|-----------------------|--------|--------------|--------------|------------------|-------|--------------|-------------------|---|
|      |  |                   |           |            | DUCT COLLARS   |       |         | MAU PLENUM |         |          | AC PLENUM                 |           |         | DUCT COLLARS |         |         |                       |        |              |              | MANUFACTURER     | MODEL |              |                   |   |
|      |  |                   |           |            | NO.            | WIDTH | LENGTH  | LENGTH     | WIDTH   | LENGTH   | WIDTH                     | LENGTH    | AIRFLOW | NO.          | WIDTH   | LENGTH  |                       |        |              |              |                  |       |              | AIRFLOW           | NO.   |
| HD-1 | TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS | 600 °F            | 2,550 CFM | 0.97 in-wg | 1              | 10"   | 2' - 0" | 12' - 9"   | 4' - 3" | 13' - 9" | 1' - 7"                   | 1,300 CFM | 3       | 6"           | 2' - 4" | 700 CFM | 6                     | 8"     | 8            | 1,150 lb     | HS               | GC    | CAPTIVE-AIRE | 5424 ND-2-ACPPS-F | MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR |

**ROOFTOP UNIT SCHEDULE**

| TAG   | DESCRIPTION              | NOMINAL CAPACITY | AIRFLOW   |         | E.S.P. (IN. W.C.) | NET COOLING CAPACITY |                |       |           | HEATING CAPACITY |                |         | ELECTRICAL |          |      | BASIS FOR DESIGN |              | REMARKS |        |   |
|-------|--------------------------|------------------|-----------|---------|-------------------|----------------------|----------------|-------|-----------|------------------|----------------|---------|------------|----------|------|------------------|--------------|---------|--------|---|
|       |                          |                  | TOTAL     | OA      |                   | TOTAL (MBH)          | SENSIBLE (MBH) | EAT   | COND. EAT | INPUT (BTU/h)    | OUTPUT (BTU/h) | EAT     | WEIGHT     | MOCP     | MCA  | V/P/H            | MANUFACTURER |         | MODEL  |   |
| RTU-1 | KITCHEN ROOFTOP UNIT     | 7.5 ton          | 3,000 CFM | 750 CFM | 0.8               | 90.5                 | 66.1           | 80 °F | 67 °F     | 95 °F            | 200,000        | 160,000 | 70 °F      | 1,300 lb | 50 A | 42 A             | 208/3/60     | TRANE   | YHC092 | FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE |
| RTU-2 | DINING ROOM ROOFTOP UNIT | 10 ton           | 4,000 CFM | 750 CFM | 0.8               | 106.7                | 87.1           | 80 °F | 67 °F     | 95 °F            | 250,000        | 200,000 | 70 °F      | 1,700 lb | 60 A | 48 A             | 208/3/60     | TRANE   | YHC120 | FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE |

**AIR BALANCE SCHEDULE**

| TAG                | SUPPLY FLOW | RETURN FLOW | EXHAUST FLOW | SUBTOTAL   |
|--------------------|-------------|-------------|--------------|------------|
| EF-1               | 0 CFM       | 0 CFM       | 2,550 CFM    | -2,550 CFM |
| EF-2               | 0 CFM       | 0 CFM       | 150 CFM      | -150 CFM   |
| MAU-1              | 1,300 CFM   | 0 CFM       | 0 CFM        | 1,300 CFM  |
| RTU-1              | 3,000 CFM   | 2,250 CFM   | 0 CFM        | 750 CFM    |
| RTU-2              | 4,000 CFM   | 3,250 CFM   | 0 CFM        | 750 CFM    |
| NET PRESSURIZATION |             |             |              | 100 CFM    |

**AIR TERMINAL SCHEDULE**

| TAG | DESCRIPTION                       | FACE SIZE     | MATERIAL | FINISH | MOUNTING       | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |              | NOTES  |
|-----|-----------------------------------|---------------|----------|--------|----------------|--------------|--------------|------------------|--------------|--|
|     |                                   |               |          |        |                |              |              | MANUFACTURER     | MODEL        |  |
| CD1 | PERFORATED CEILING DIFFUSER       | 24" X 24"     | ALUMINUM | WHITE  | LAY-IN CEILING | GC           | GC           | NAILOR           | 4320A TYPE L | PROVIDE WITH INTEGRAL OBD                              |
| CD2 | PERFORATED CEILING DIFFUSER       | 12" X 12"     | ALUMINUM | WHITE  | SURFACE MOUNT  | GC           | GC           | NAILOR           | 4320A TYPE S | PROVIDE WITH INTEGRAL OBD                              |
| ER1 | PERFORATED CEILING EXHAUST        | 12" X 12"     | ALUMINUM | WHITE  | SURFACE MOUNT  | GC           | GC           | NAILOR           | 4330R TYPE S | PROVIDE WITH INTEGRAL OBD                              |
| RG1 | PERFORATED CEILING RETURN         | 48" X 24"     | ALUMINUM | WHITE  | LAY-IN CEILING | GC           | GC           | NAILOR           | 4330R TYPE L |  |
| RG3 | PERFORATED CEILING RETURN         | 48" X 24"     | ALUMINUM | WHITE  | SURFACE MOUNT  | GC           | GC           | NAILOR           | 4330R TYPE S |  |
| SR1 | ADJUSTABLE TURBO NOZZLE           | SEE NECK SIZE | ALUMINUM | WHITE  | WALL           | GC           | GC           | AIR CONCEPTS     | ANR-14       | PROVED WITH CONCEALED MOUNTING AND FACE ACCESSIBLE OBD |
| SR2 | DOUBLE DEFLECTION SUPPLY REGISTER | SEE NECK SIZE | ALUMINUM | WHITE  | WALL           | GC           | GC           | NAILOR           | 51DH         | PROVIDE WITH INTEGRAL OBD                              |

**CONTROL FUNCTIONS**

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

Consultant:



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Issue Record:  
02/28/2023 PERMIT ISSUE  
08/24/2023 CONSTRUCTION ISSUE

Revisions:

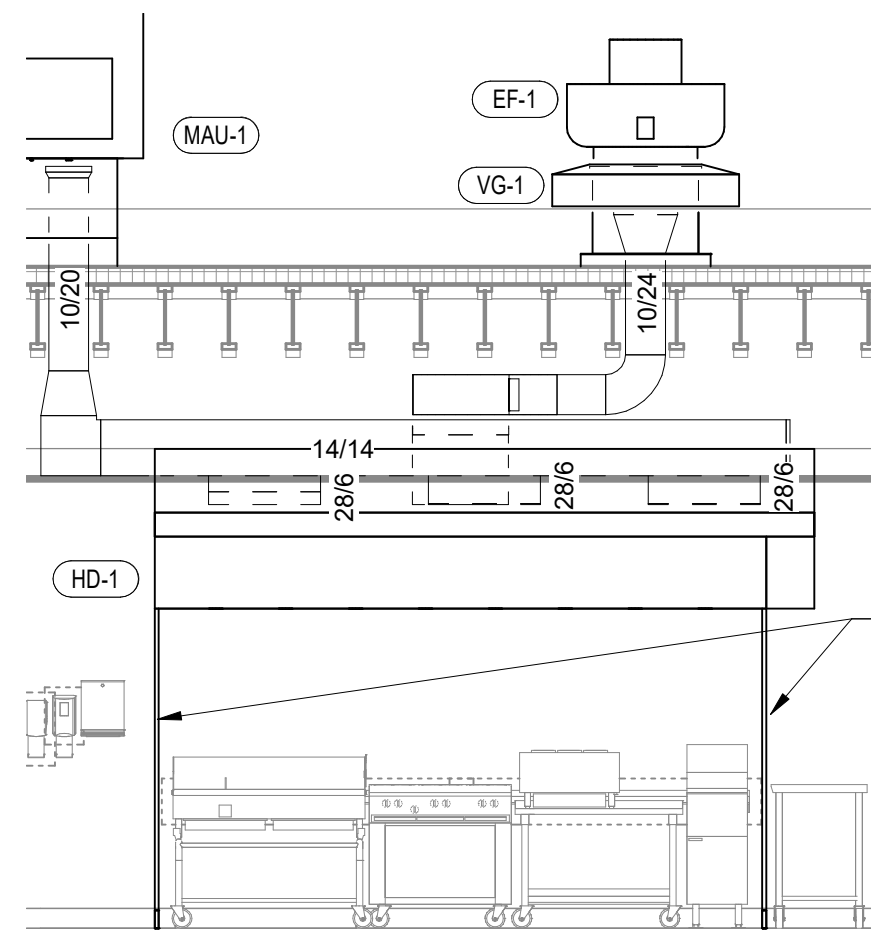
Drawn: JJD  
Checked: AJD

Project No:  
231002

Contents:

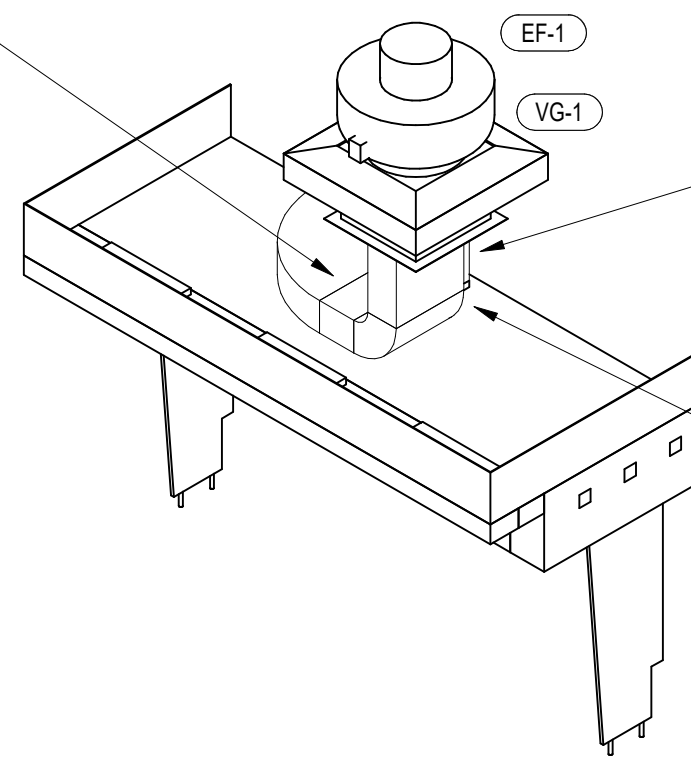
HVAC SCHEDULES

M600



**9 HOOD ELEVATION**  
1/4" = 1'-0"

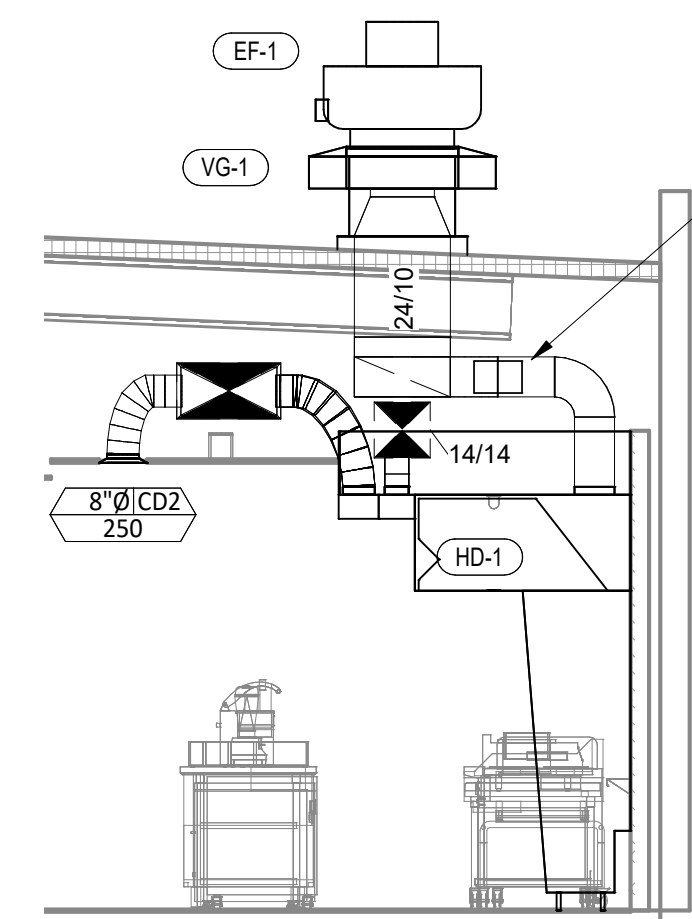
SLOPE HORIZONTAL GREASE DUCT A MINIMUM OF 1/4" PER FOOT DOWN TOWARD THE CONNECTION TO THE HOOD.



**8 HOOD EXHAUST ISOMETRIC**  
NOT TO SCALE

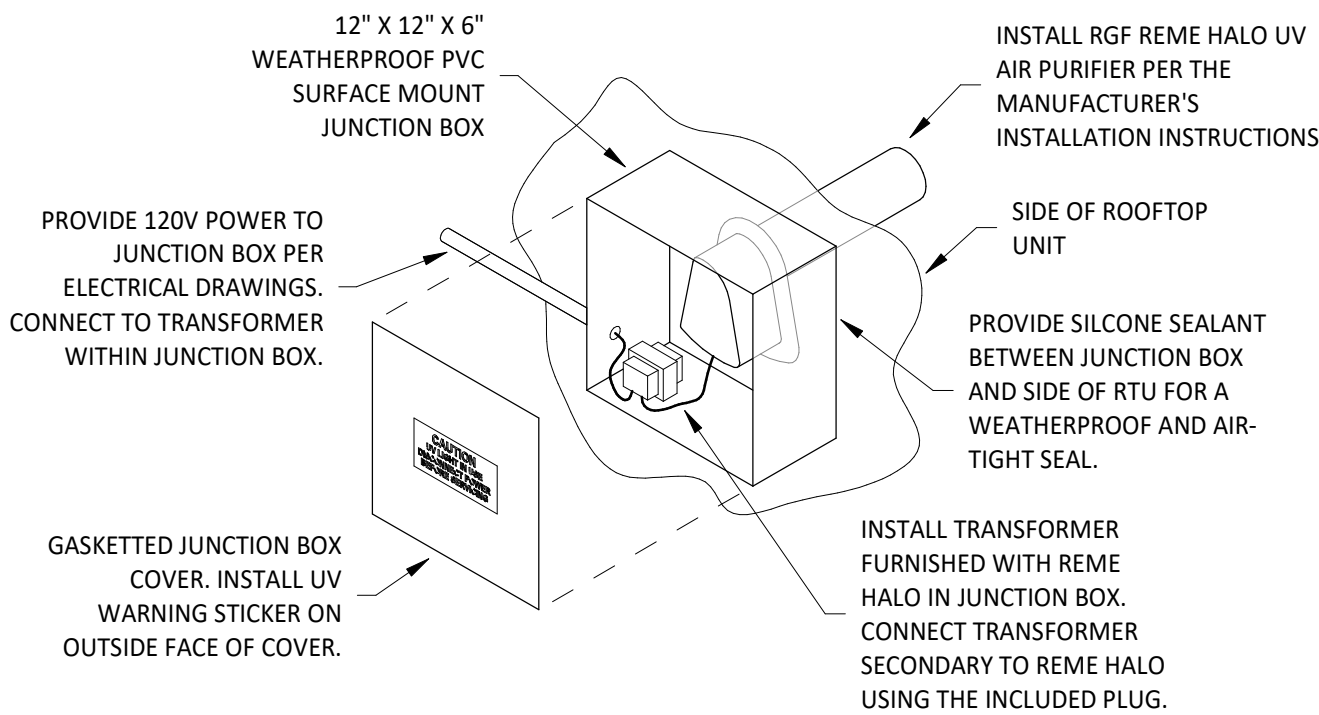
PROVIDE FIRE RESISTANT INSULATION ON TYPE I HOOD EXHAUST DUCT FROM CONNECTION TO HOOD TO CONNECTION TO EXHAUST FAN PER DETAIL 3/M700.

PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5 X THE DUCT DIMENSION AT ALL CHANGES OF DIRECTION IN THE TYPE I HOOD EXHAUST DUCT.



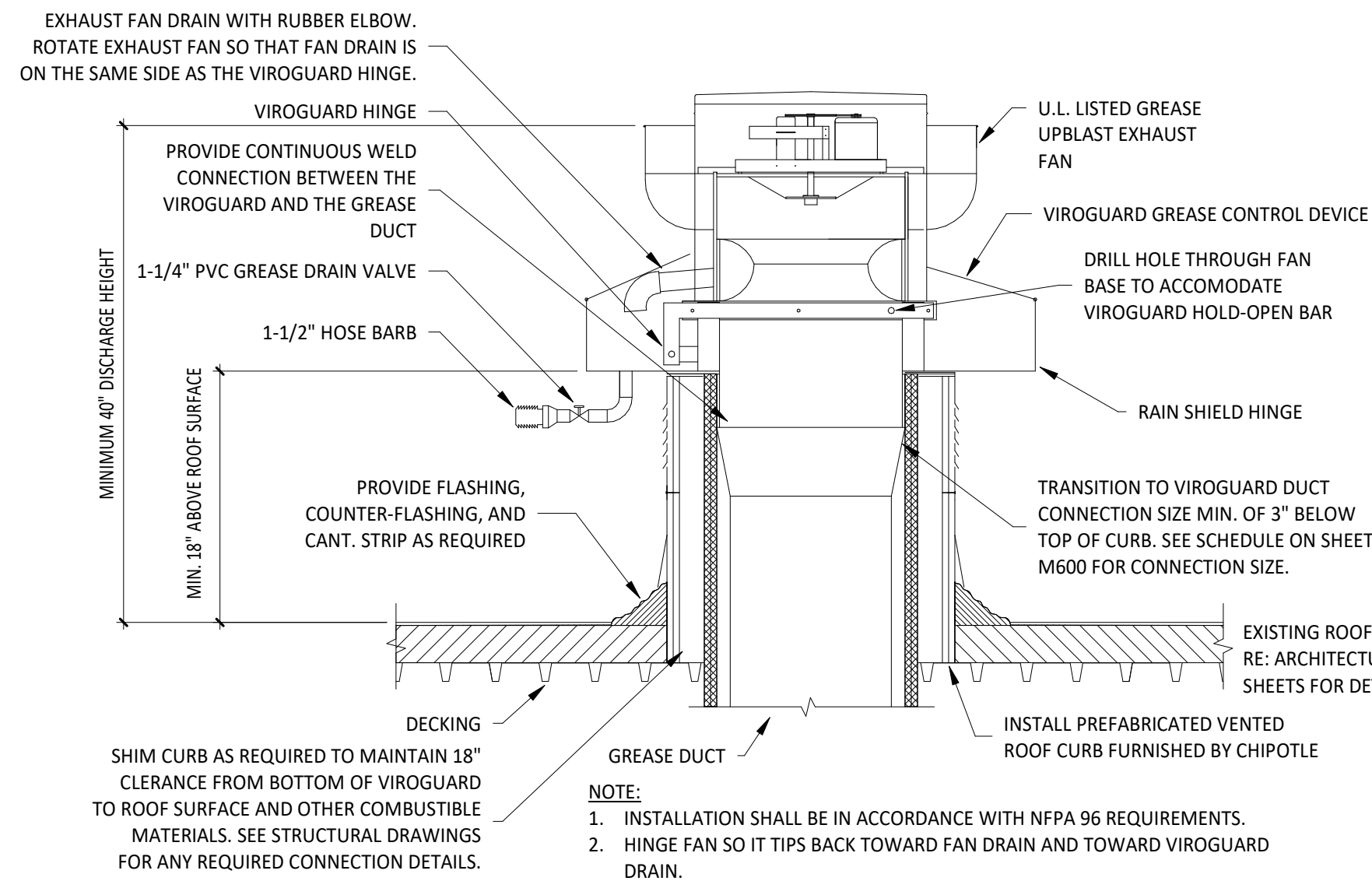
**7 DUCT SECTION AT HOOD**  
1/4" = 1'-0"

GREASE DUCT CLEANOUTS SHALL BE UL-LISTED DUCTMATE PREINSULATED CLEANOUT DOORS MODEL D128ULWSBI FOR DUCTS AT LEAST 17" TALL AND DW128ULWSBI FOR DUCTS LESS THAN 17" TALL. CLEANOUTS SHALL BE FURNISHED BY TENANT. COORDINATE NUMBER AND SIZE REQUIRED WITH ENVIROMATIC. INSTALL AS SHOWN IN THE HVAC FLOOR PLAN.



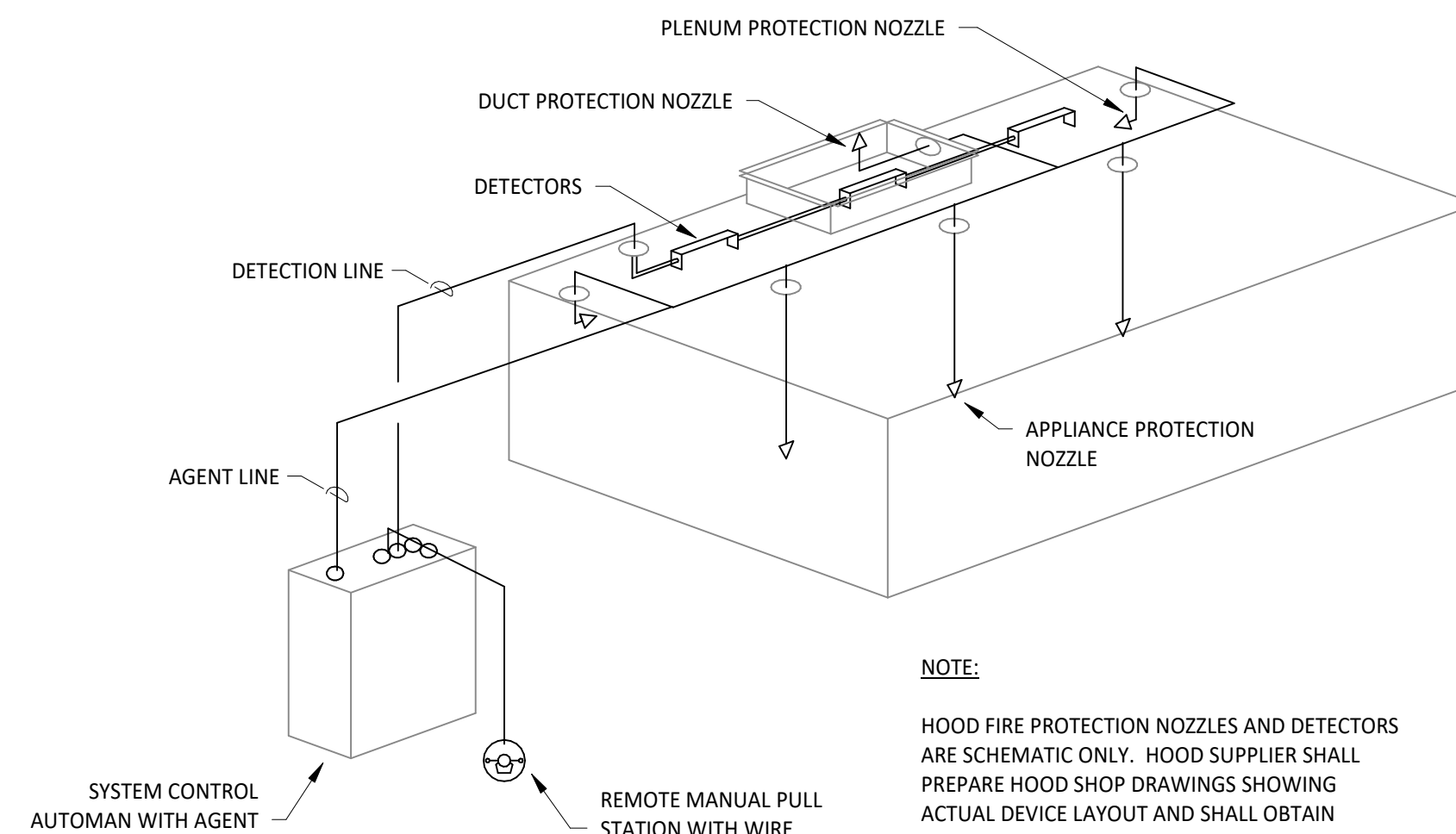
**6 UV AIR PURIFIER INSTALLATION**  
NOT TO SCALE

**INSTALLATION LOCATION**  
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:  
**TRANE:** INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.  
**YORK:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.



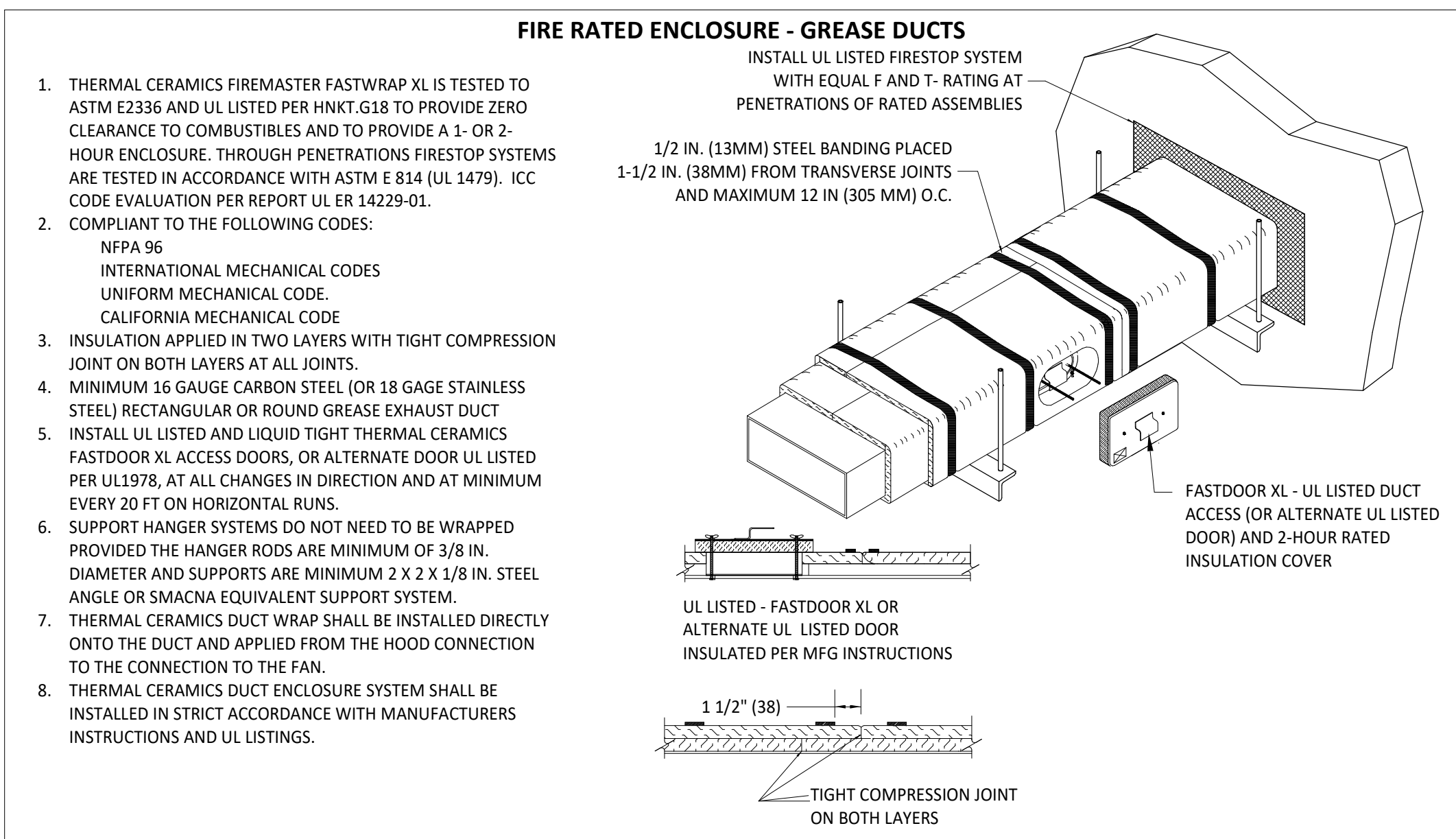
**5 GREASE EXHAUST FAN**  
NOT TO SCALE

**NOTE:**  
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.  
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.



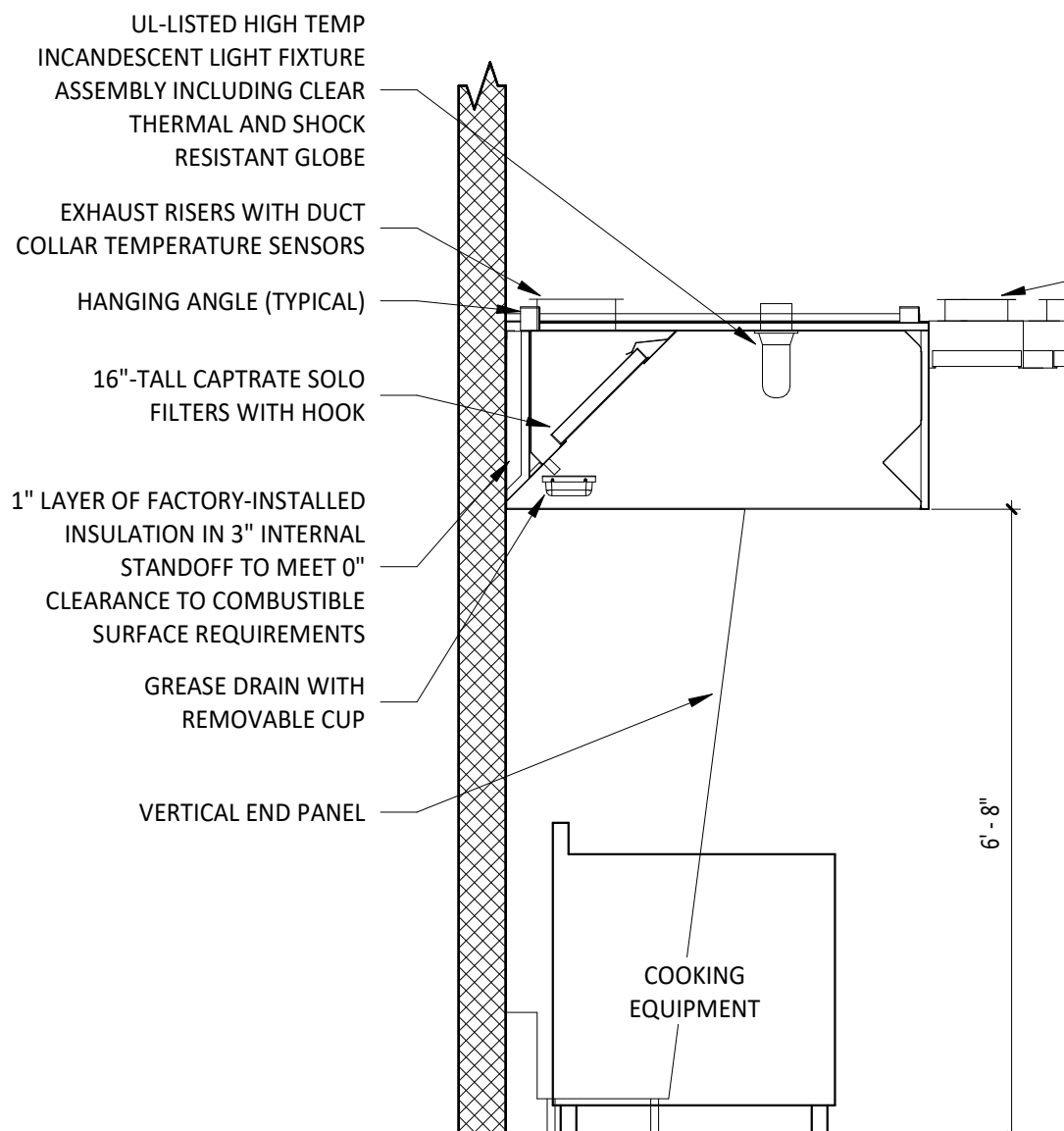
**4 FIRE SUPPRESSION SYSTEM SCHEMATIC**  
NOT TO SCALE

**NOTE:**  
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

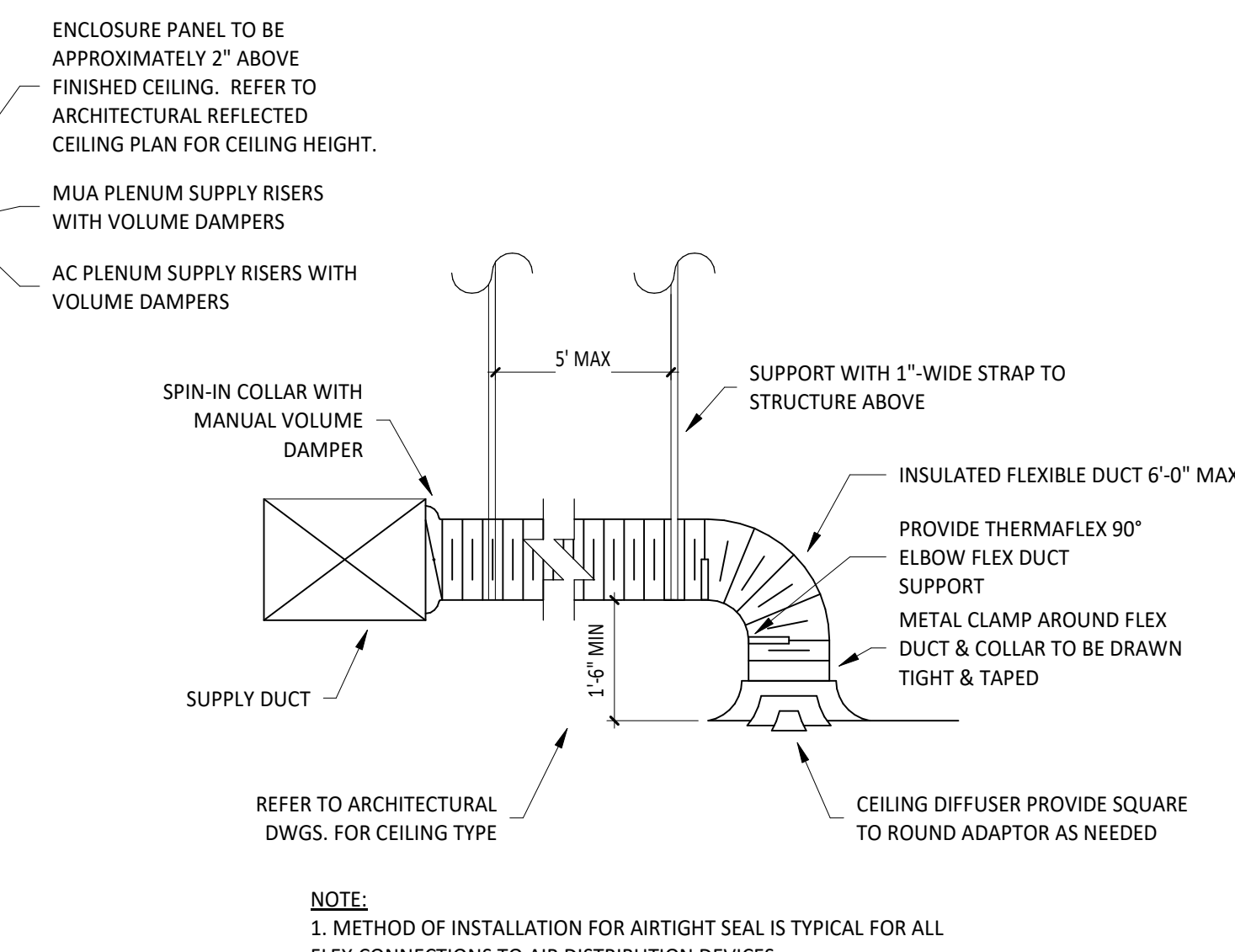


**3 FIREMASTER DUCT WRAP - UL HNKT-G18**  
NOT TO SCALE

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT-G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:  
NFPA 96  
INTERNATIONAL MECHANICAL CODES  
UNIFORM MECHANICAL CODE  
CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



**2 HOOD SECTION VIEW**  
NOT TO SCALE



**1 DIFFUSER CONNECTION**  
NOT TO SCALE

**NOTE:**  
1. METHOD OF INSTALLATION FOR AIR TIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

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Contents:

HVAC DETAILS

M700