





**Mechanical Requirements List, pg 1 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

Project: **Chiptole Mexican Grill - Lynden - 2021 WSEC - 2021 WSEC**  
 8032 Guide Meridian Rd, Lynden, WA 98264 Date: 2025-06-02

Applies	Code Section	Code Provision	Compliance Information Required in Permit Documentation	Location in Documents	Building Department Notes
<b>SCOPE</b>					
NA	C180.3	Construction	For a new or existing space (first build-out), indicate the mechanical system to be installed in the project.	M100	
YES	C180.1	Construction - General	For an alteration project, indicate if there is no mechanical scope included in the project.	M100	
<b>PERFORMANCE CRITERIA &amp; SYSTEM DESIGN</b>					
YES	C401.1	Energy performance	Identify equipment used for manufacturing, processing, or other processes that are not for space conditioning or equipment, identify equipment used for space conditioning or equipment, identify equipment used for space conditioning or equipment.	M600	
NA	C401.1	HVAC unit system (FSPR)	For systems serving office (including medical offices), retail, dining, recreation, or assembly spaces, or serving 2-3 dwelling units or common areas, provide a FSPR that demonstrates the proposed design ratio is equal to or greater than the design reference design ratio, or exception applied.	M100	
YES	C401.2	Calculation of heating and cooling loads	Provide load calculations in accordance with ASHRAE 55 for heating, cooling, and ventilation per CHS and Appendix C include load calculations to account for energy recovery.	M100	
NA	C401.3	Data centers	Provide documentation that demonstrates that data center systems comply with the maximum allowed Design MLE and Annualized MLE per ASHRAE 90.1-2009.	M100	
NA	C401.3.1 C401.4.2	Zone isolation	If there are HVAC zones that are intended to be occupied and unoccupied, identify isolation zone areas or plans, if multiple zones are combined into a single isolation zone, include the unoccupied zone area. Unoccupied zones do not exceed 25,000 of air and do not include more than one floor, or exception applied.	M100	
NA	C401.3.1	Zone isolation	Indicate location of unoccupied zone isolation equipment, including HVAC and DOAS distribution systems and exhaust system.	M100	
NA	C401.3.1 C401.4.2	Zone isolation	Refer to HVAC Commissioning in Requirements List for applicable automatic setback and shutdown controls requirements.	M100	

Page 1/32

**Mechanical Requirements List, pg 2 of 32**

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 8032 Guide Meridian Rd, Lynden, WA 98264 Date: 2025-06-02

NA	C401.3.3	Heating, cooling and ventilation controls	If applying Exception in heating, cooling and ventilation controls, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.3.4	Decoupled DOAS supply air	Indicate method of delivery of DOAS supply air to occupied space directly into space, decoupled from the heating, cooling and ventilation controls, or exception applied.	M100	
NA	C401.6	Multiple zone DOAS	For DOAS serving multiple zones with DOAS controls, indicate controls configured to reduce the volume of outdoor air in each zone independently when the zone is unoccupied, or exception applied.	M100	
<b>ADDITIONAL ENERGY EFFICIENCY MEASURE - DEDICATED OUTSIDE AIR SYSTEMS (DOAS)</b>					
NA	C401.2.2.6	High performance DOAS - Energy effectiveness and fan power	For all building occupancies, in conjunction with the additional energy code, demonstrate energy effectiveness and fan power.	M100	
NA	C401.2.2.6	High performance DOAS - Energy effectiveness and fan power	Indicate energy recovery available from DOAS, specify energy effectiveness and fan power.	M100	
NA	C401.2.2.6	High performance DOAS - Energy effectiveness and fan power	For each system, indicate total system fan power does not exceed 0.700 watts per cfm at design conditions, or indicate fan power, or exception applied.	M100	
<b>FANS AND FAN CONTROLS</b>					
YES	C401.8.1.2	Fan power limitation	For all HVAC Fan systems associated with conditioned space or containing a fan motor with electrical input > 1 kW, shall provide the total nameplate to and the fan system electrical input power calculated per CHS 4.01.2 in equipment schedule on project plan.	M600	
YES	C401.8.1.1	Fan power limitation	For all HVAC and DOAS systems associated with conditioned space or containing a fan motor with electrical input power > 1 kW, provide the total nameplate to and the fan system electrical input power calculated per CHS 4.01.2 in equipment schedule on project plan.	M600	
NA	C401.8.2	Motor nameplate	For HVAC systems with fan motor nameplate > 1 kW, indicate motor nameplate > 1 kW, or exception applied.	M100	

Page 2/32

**Mechanical Requirements List, pg 11 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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 8032 Guide Meridian Rd, Lynden, WA 98264 Date: 2025-06-02

NA	C401.7.4	Exhaust parking garage ventilation	For exhaust parking garage ventilation, indicate ventilation or exhaust controls to be installed, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.7.6.2	Ventilation / exhaust systems	For systems with design ventilation air > 2,000 cfm, or design supply air cfm and in ventilation air exceeding the values in Table C401.7.6.1 (2), indicate exhaust or energy recovery method, or exception applied with supporting calculation.	M100	
NA	C401.7.6.2	Ventilation / exhaust systems	For rooms served by multiple systems with aggregate design ventilation air > 2,000 cfm, or aggregate design supply air cfm and in ventilation air exceeding the values in Table C401.7.6.1 (2), indicate exhaust or energy recovery method, or exception applied with supporting calculation.	M100	
NA	C401.7.6.2	Ventilation / exhaust systems	Indicate energy recovery method and sensible recovery rate > 40% or a sensible recovery rate > 40%.	M100	
YES	C401.7.11.1 C401.7.11.2 C401.7.11.3	Kitchen exhaust hood systems	Indicate exhaust hood type, size, type, UL rating and exhaust airflow rate of each kitchen hood.	M600	
YES	C401.7.11.1 C401.7.11.2 C401.7.11.3	Kitchen exhaust hood systems	Provide calculations that show a balanced amount of total kitchen exhaust include all hoods with a net supply air transfer air from adjacent spaces, and make up air.	M600	
YES	C401.7.11.1 C401.7.11.2 C401.7.11.3	Kitchen exhaust hood systems	For hoods with make-up air drawn directly from the kitchen air, indicate the make-up air source, indicate that make-up air does not exceed 10% of total kitchen exhaust.	M600	
YES	C401.7.11.1 C401.7.11.2 C401.7.11.3	Kitchen exhaust hood systems	For kitchen exhaust hood with fan motor exceeding 2,000 cfm, indicate that each hood has a fan motor with electrical input power > 1 kW, or exception applied.	M600	
YES	C401.7.11.1 C401.7.11.2 C401.7.11.3	Kitchen exhaust hood systems	For kitchen hood with total hood exhaust exceeding 2,000 cfm, indicate demand control kitchen ventilation configured to maintain 50% minimum to exhaust replacement air system flow in response to different operations, or exception applied.	M600, Hood Drawings	
NA	C401.7.12	Laboratory systems	For laboratory systems with laboratory > 5,000 cfm, indicate method of energy recovery used, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	

Page 11/32

**Mechanical Requirements List, pg 12 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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YES	C401.7.3	Transfer air	For spaces where conditioned supply air is utilized in transfer air or balance mechanical systems, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100/M600	
YES	C401.7.3.1	Shutoff dampers for building isolation	Indicate location of outdoor air intake, exhaust and relief outlet dampers on plans, indicate shutoff dampers on plan, mechanical, or gravity and exception applied (include linkage string, etc.).	M100/M600	
NA	C401.7.3.1 C401.7.3.2	Shutoff dampers for driving and exhaust	Indicate location of driving and exhaust dampers on plans, indicate shutoff dampers on plan, mechanical, or gravity and exception applied (include linkage string, etc.).	M100	
YES	C401.7.3.1 C401.7.3.2	Shutoff dampers for transfer air	Indicate location of return air dampers that are intended to provide economizer operation, indicate shutoff dampers on plan, mechanical, or gravity and exception applied (include linkage string, etc.).	M600	
YES	C401.7.3.4	Dampers actuation	Indicate actuation controls configured to close outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M600	
NA	C401.7.4	Drivage exhaust	Indicate method of extraction of driveway exhaust, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.11.4	Energy recovery for ventilation	For heating, cooling and ventilation systems, indicate energy recovery for ventilation systems, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.11.4	Energy recovery for ventilation	Indicate location of both thermodynamic control devices and the zone fan system or zone fan system, or exception applied.	M100	
NA	C401.11.4	Energy recovery for ventilation	Indicate a limit switch, mechanical stop or other control device to prevent economizer heating and cooling.	M100	
NA	C401.11.4	Energy recovery for ventilation	Indicate thermodynamic control device heating or cooling ventilation with a heating capacity > 60% and cooling capacity > 87% or other thermodynamic control device, or exception applied.	M100	
NA	C401.11.4	Energy recovery for ventilation	Indicate controls are configured to shut off air intake heating when outdoor temperature > 65°F.	M100	

Page 12/32

**Mechanical Requirements List, pg 13 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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NA	C401.4.1	Thermodynamic control devices and dampers	When applied (including those not controlled by economizer), indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
YES	C401.4.1	Thermodynamic control devices and dampers	If applying Exception 1, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M600	
NA	C401.4.1	Thermodynamic control devices and dampers	Indicate location of both thermodynamic control devices and the zone fan system or zone fan system, or exception applied.	M100	
NA	C401.4.1	Thermodynamic control devices and dampers	Indicate a limit switch, mechanical stop or other control device to prevent economizer heating and cooling.	M100	
NA	C401.4.1	Thermodynamic control devices and dampers	Indicate thermodynamic control device heating or cooling ventilation with a heating capacity > 60% and cooling capacity > 87% or other thermodynamic control device, or exception applied.	M100	
NA	C401.4.1	Thermodynamic control devices and dampers	Indicate controls are configured to shut off air intake heating when outdoor temperature > 65°F.	M100	

Page 13/32

**Mechanical Requirements List, pg 14 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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 8032 Guide Meridian Rd, Lynden, WA 98264 Date: 2025-06-02

NA	C401.4.1.6	Two switches for HVAC thermostat control	Does required have opening switches for HVAC thermostat control in the outdoor air intake and exhaust ducts, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
YES	C401.4.1.1 C401.4.1.2 C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M600	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	

Page 14/32

**Mechanical Requirements List, pg 15 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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NA	C401.4.1.6	Two switches for HVAC thermostat control	Does required have opening switches for HVAC thermostat control in the outdoor air intake and exhaust ducts, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
YES	C401.4.1.1 C401.4.1.2 C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M600	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	
NA	C401.4.1.3	Automatic setback and shutdown	Indicate zone thermostat controls configured to reduce outdoor air intake, exhaust and relief outlet dampers in response to equipment operation, or include economizer control, include link or BACnet signal on outdoor air exhaust.	M100	

Page 15/32

**Mechanical Requirements List, pg 2 of 32**

2021 WSEC Requirements for Commercial Buildings including Group 10, 11 & 12 use as defined in Section 4.01.1 - Administration by 2020 IBC MEA. All rights reserved. The following information is necessary to check a mechanical permit application for compliance with the mechanical systems and equipment requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC/Commercial Technical Support at 360-530-5300 or via email at [com.techsupport@wsec.wa.gov](mailto:com.techsupport@wsec.wa.gov).

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 8032 Guide Meridian Rd, Lynden, WA 98264 Date: 2025-06-02

NA	C401.3.2.4 C401.4.1	Electric heating / cooling equipment	Verify all packaged and split electric heating and cooling equipment is rated for the intended use, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.3.2.4 C401.4.1	Electric heating / cooling equipment	Verify electric heat in the main supply duct before HVAC system is installed, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
YES	C401.3.1 C401.4.1	HVAC Heating Fuel	For all heating equipment, identify whether fuel is used, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.3 C401.4 C401.1	HVAC Heating Fuel	For systems serving office (including medical offices), retail, dining, recreation, or assembly spaces, or serving 2-3 dwelling units or common areas, provide a FSPR that demonstrates the proposed design ratio is equal to or greater than the design reference design ratio, or exception applied.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 2, provide a list of each equipment type, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 3, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 4, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 5, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 6, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 7, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 8, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 9, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 10, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 11, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 12, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 13, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 14, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 15, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 16, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 17, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 18, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 19, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4	HVAC Heating Fuel	To qualify for exception 20, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	

Page 2/32

**Mechanical Requirements List, pg 7 of 32**

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YES	C401.8	Rated by fan motor	For all fans, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.8.3	Fan efficiency	For individual fans in fan rooms, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4.1	Low-capacity ventilation fans	For all ventilation systems, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.4.1	Variable flow capacity - fans	For fans serving 2-3 dwelling units or common areas, provide a FSPR that demonstrates the proposed design ratio is equal to or greater than the design reference design ratio, or exception applied.	M100	
YES	C401.8.1.1	Fan airflow control	For fan rooms, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
YES	C401.8.1.1	Fan airflow control	For mechanical cooling systems (including DX), indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NO	C401.8.1.1	Fan airflow control	For other mechanical cooling systems, indicate the controls to be installed, indicate the controls to be installed, indicate the controls to be installed.	M100	
NA	C401.8.2	Large-diameter ceiling fans	Where provided, indicate large-diameter ceiling fans to be installed and indicate in accordance with ASHRAE 206.	M100	

Page 7/32

**Mechanical Requirements List, pg**





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 8083 GUIDE MERIDIAN RD  
 LYNDEN, WA 98264

Issue Record:  
 06/06/2025 PERMIT SET  
 08/29/2025 FOR CONSTRUCTION

Revisions:  
 4 10/14/2025 CB 01

Drawn: MKT  
 Checked: RTJ

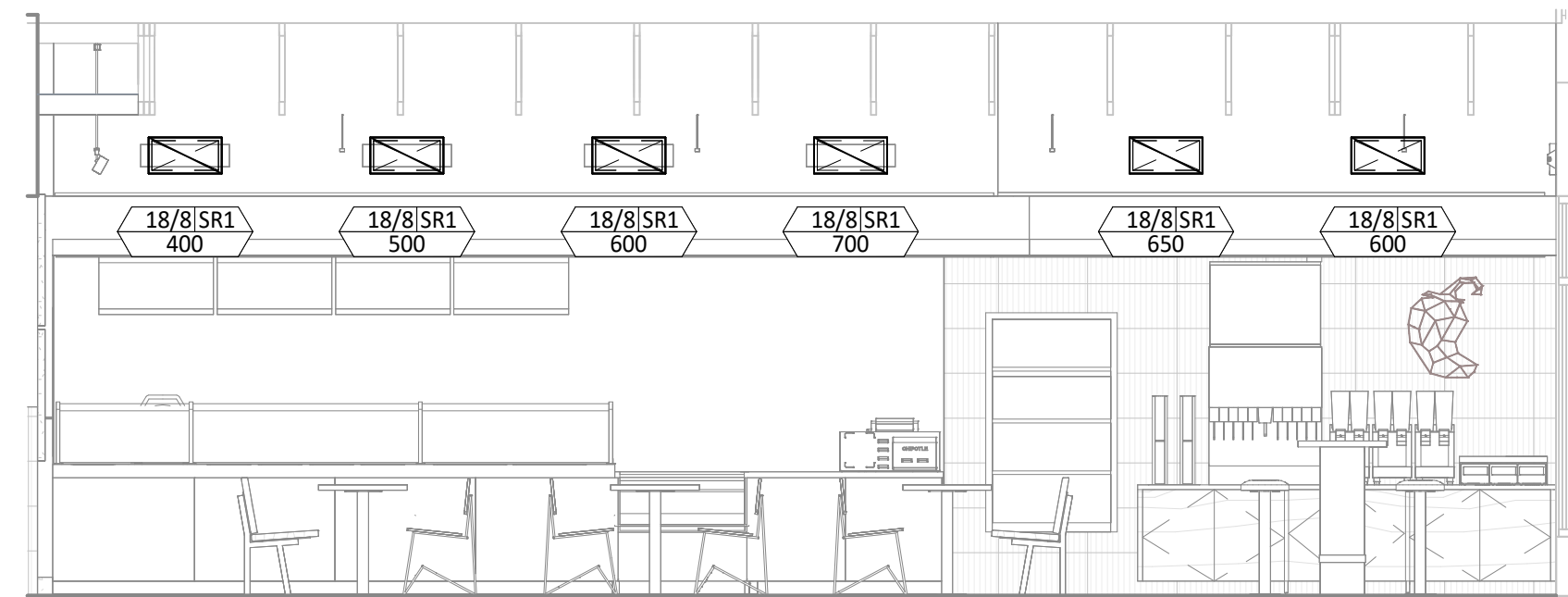
Project No:  
 2502013

Contents:  
 HVAC PLAN

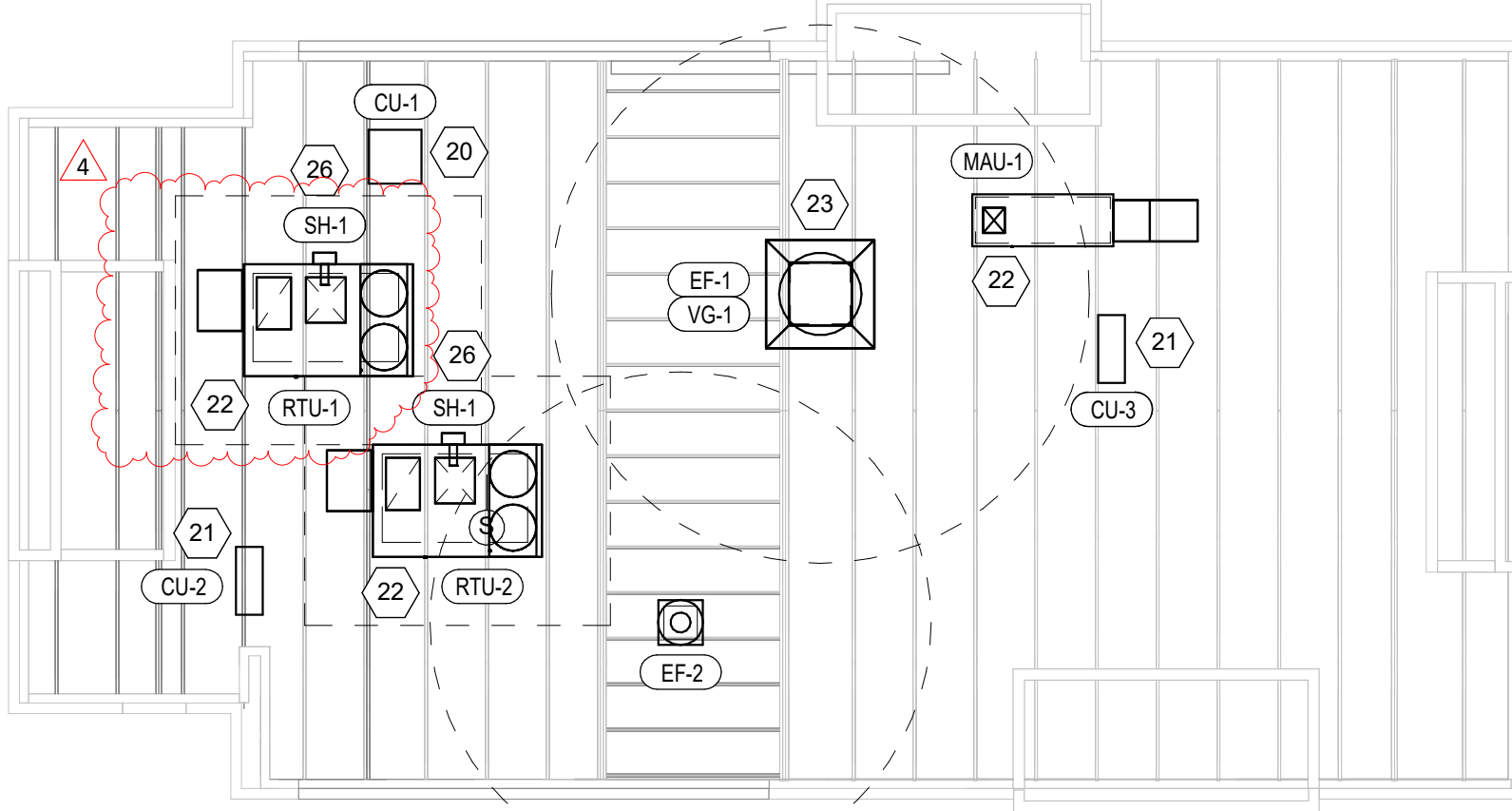
M100

**HVAC PLAN NOTES**

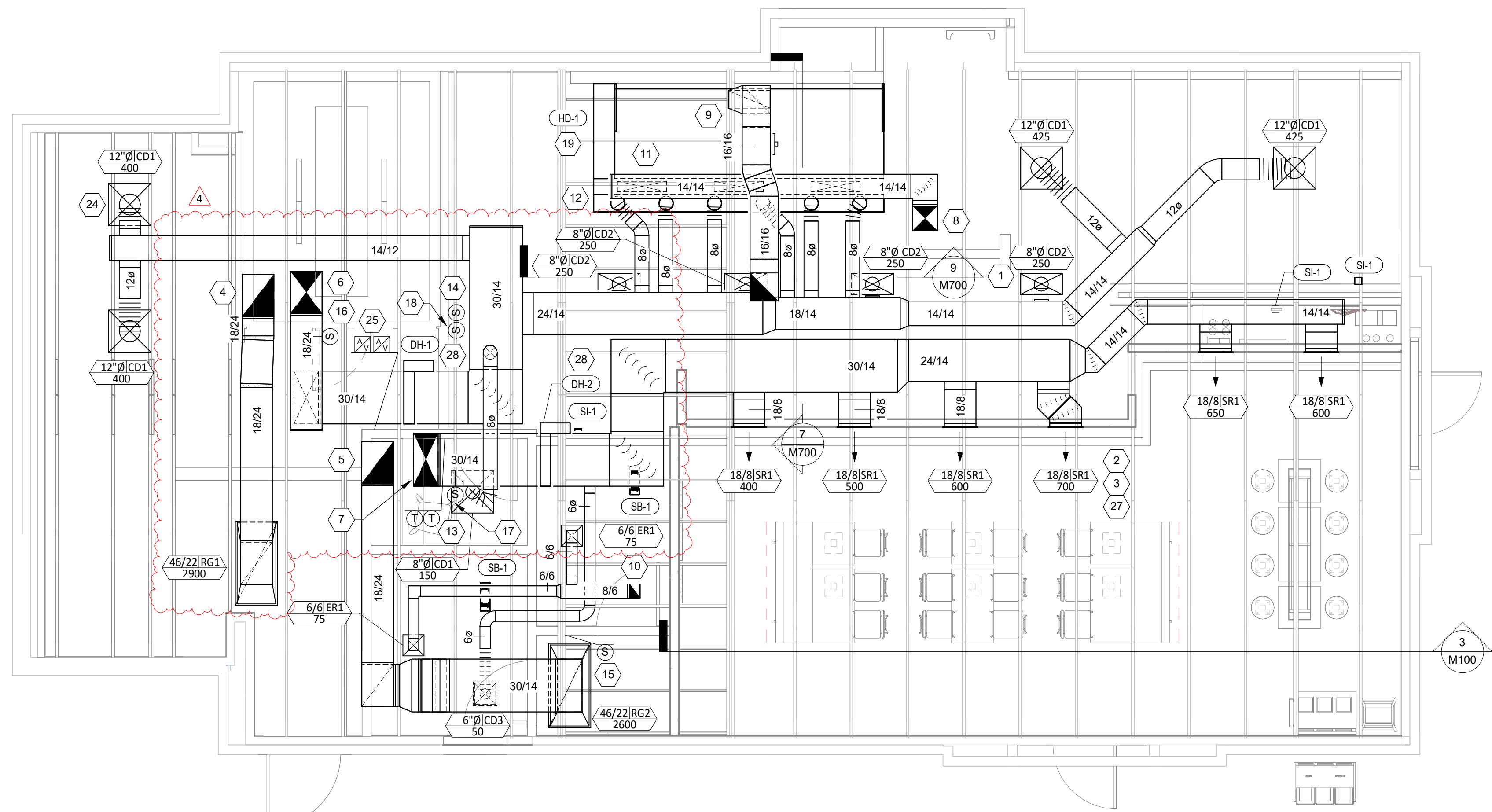
- 1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- 2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
- 3 ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- 4 24/18 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.
- 5 24/18 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.
- 6 24/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 7 30/14 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 8 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 9 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 10 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 11 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 12 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- 13 INSTALL SINGLE GANG VERTICAL J-BOX 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.
- 14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- 15 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.
- 16 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.
- 17 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.
- 18 INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- 19 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.
- 20 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.
- 21 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. SEAL PIPING PENETRATIONS THROUGH ROOF. 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.
- 22 INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 23 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.
- 24 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- 25 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.
- 26 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.
- 27 SEE ARCHITECTURAL ELEVATIONS FOR DINING DIFFUSER LOCATIONS.
- 28 INSTALL DUCT HEATERS, DH-1 AND DH-2, SO THAT CLEARANCES ARE MET BY THE MANUFACTURER REQUIREMENTS.



3  
 M100  
**HVAC DINING ROOM SECTION**  
 1/4" = 1'-0"



2  
 M100  
**HVAC ROOF PLAN**  
 1/8" = 1'-0"



1  
 M100  
**HVAC FLOOR PLAN**  
 1/4" = 1'-0"

**SANITIZING EQUIPMENT SCHEDULE**

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
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.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

**VIROGUARD SCHEDULE**

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

**GRILLS, REGISTERS, AND DIFFUSERS 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 INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

**FAN SCHEDULE**

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	2550 CFM	1.20 in-wg	400	2	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

**DUCT HEATER SCHEDULE**

TAG	DESCRIPTION	TOTAL [CFM]	DUCT SIZE		NUMBER OF STEPS	MBH	EAT [DEG. F]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			DUCT WIDTH	DUCT HEIGHT				KW	V/P/H			MANUFACTURER	MODEL	
DH-1	KITCHEN DUCT HEATER	3500 CFM	30"	14"	2	108	59	32	208/3/60	GC	GC	INDEECO	OPEN COIL	THERMAL CUTOUT, AIRFLOW SWITCH, VERIFY DUCT SIZE PRIOR TO ORDERING
DH-2	DINING ROOM DUCT HEATER	3500 CFM	30"	14"	2	124	54	36	208/3/60	GC	GC	INDEECO	OPEN COIL	THERMAL CUTOUT, AIRFLOW SWITCH, VERIFY DUCT SIZE PRIOR TO ORDERING

**MAKEUP AIR UNIT SCHEDULE**

TAG	DESCRIPTION	AIRFLOW		HEATING CAPACITY		APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]	OUTPUT [MBH]	ELECTRIC HEATING (KW)		EAT	MOTOR POWER			V/P/H	MANUFACTURER	
MAU-1	MAKEUP AIR UNIT	1300	0.80	123	21	650	1 HP	208/3/60	HS	GC	CAPTIVE-AIRE	A1-E.362-15D	FURNISHED WITH SINGLE POINT CONNECTION, DISCONNECTS, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

**CONDENSING UNIT SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCAP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-448A	9.9	200	15 A	7.2 A	208/3/60	WCS	GC	EVERIDGE	RFO130E45EA	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

**ROOFTOP UNIT SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY				# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL [CFM]	OA [CFM]	ESP [in. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F]	COND. EAT [DEG. F]						MOCAP	FLA	V/P/H			MANUFACTURER	MODEL		
RTU-1	KITCHEN ROOFTOP UNIT	10	12.2	3500	600	0.8	117	73	75	64	91	2	2	R-454B	6.8/6.12	1500	70 A	54.8 A	208/3/60	HES	GC	YORK	KJ120	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, & CAP UNUSED NATURAL GAS CONNECTION.
RTU-2	DINING ROOM ROOFTOP UNIT	10	12.2	3500	900	0.8	118	71	77	66	91	2	2	R-454B	6.8/6.12	1500	70 A	54.8 A	208/3/60	HES	GC	YORK	KJ120	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, & CAP UNUSED NATURAL GAS CONNECTION.

**KITCHEN HOOD SCHEDULE**

TAG	DESCRIPTION	MAX COOKING TEMP.	AIRFLOW [CFM]	SP [in. W.C.]	EXHAUST PLENUM					PERFORATED SUPPLY PLENUMS										NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					DUCT COLLARS					SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM			AC PLENUM								MANUFACTURER	MODEL	
					NO.	WIDTH	LENGTH	LENGTH	WIDTH				AIRFLOW [CFM]	NO.	WIDTH	LENGTH	AIRFLOW [CFM]	NO.	DIAMETER							
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	2550	0.97	1	10"	24"	12' - 9"	4' - 3"	0.1	13' - 9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, 24V GAS VALVE, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

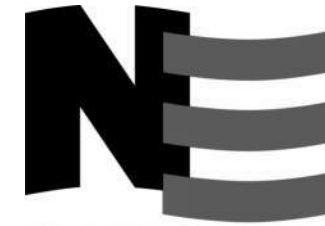
**AIR BALANCE SCHEDULE**

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	3500	2900	0	600
RTU-2	3500	2600	0	900
Net Pressurization [CFM]				100

**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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FOR CONSTRUCTION

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Contents:

HVAC SCHEDULES

M600

FOR QUESTIONS, CALL THE  
Highwoods Group  
REGION 40  
PHONE: (919) 875 - 0420  
EMAIL: reg40@captiveaire.com

**PATENT NUMBERS**

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.  
AC-PSP WALL (CANADA) - CA PATENT 2820509.  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

**HOOD INFORMATION - JOB#7552739**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA				CFM	VEL	SP	END TO END	ROW
1	HD - 1	5424 ND-2-ACPSP-F	CAPTIVEAIRE	12' 9"	600 DEG	I	HEAVY	200	2550	10'	24'	4'		2550	1530	-0.966'	1300	696	430 SS WHERE EXPOSED	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	HD - 1	CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	1217 LBS

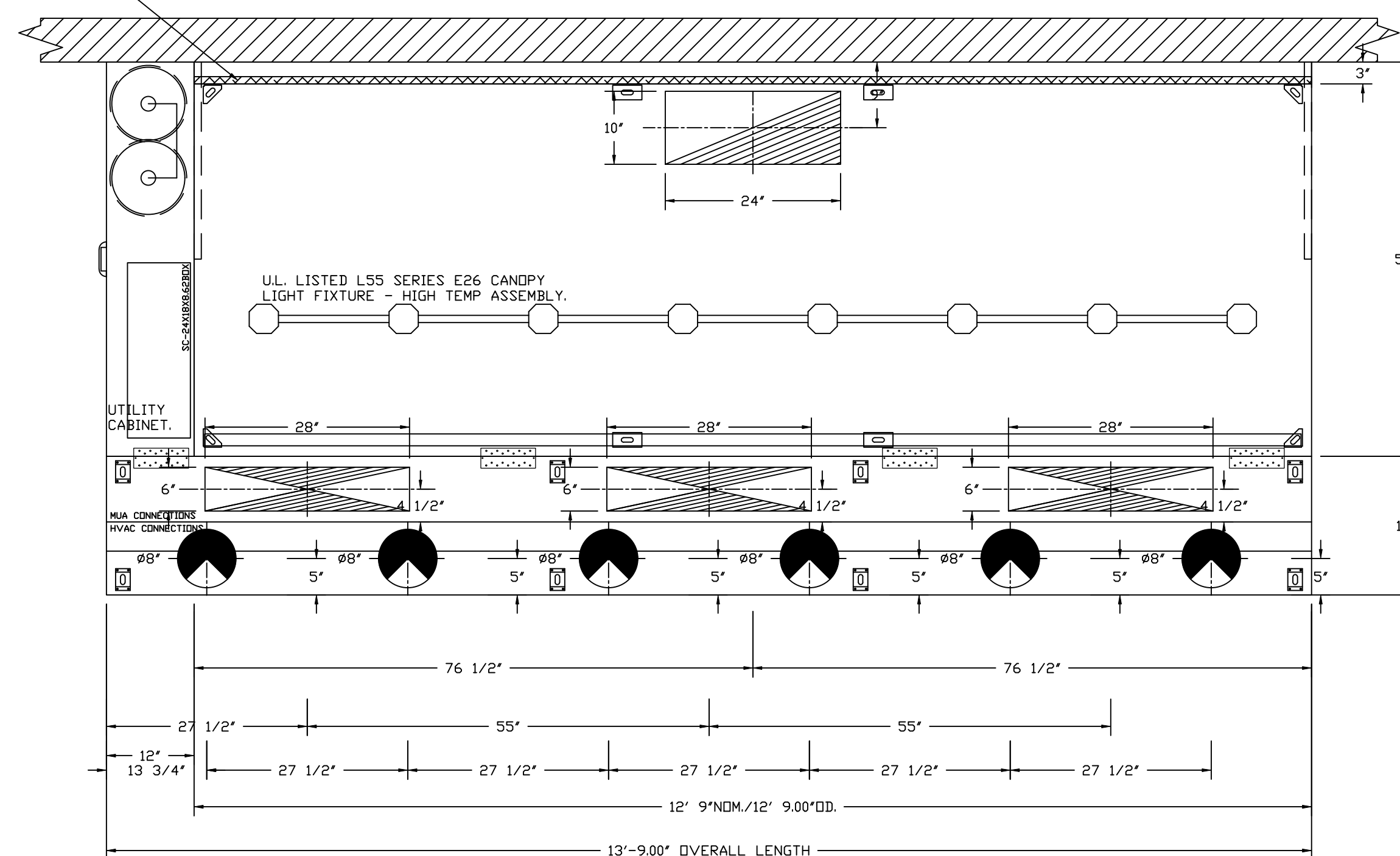
**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1	HD - 1	FIELD WRAPPER 10.00' HIGH FRONT, LEFT, RIGHT. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)					
						TYPE	WIDTH	LENG	DIA	CFM	SP
1	HD - 1	Front	165'	19'	6'	MUA	6"	28"		432	0.127'
						MUA	6"	28"		432	0.127'
						MUA	6"	28"		432	0.127'
						AC			8"	116	0.043'
						AC			8"	116	0.043'
						AC			8"	116	0.043'
						AC			8"	116	0.043'
						AC			8"	116	0.043'
						AC			8"	116	0.043'

1' LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.



PLAN VIEW - HOOD #1 (HD - 1)  
12' 9.00" LONG 5424ND-2-ACPSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

**CLEARANCE TO COMBUSTIBLES**

HOODS #	SURFACE	*CLEARANCE
1	TOP	18'
	FRONT	0'
	BACK	0'
	LEFT	0'
	RIGHT	18'

- \*0' CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.  
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

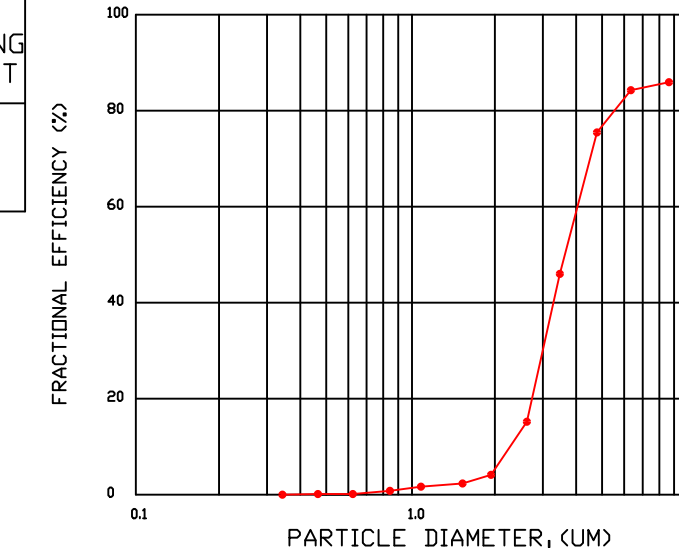
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

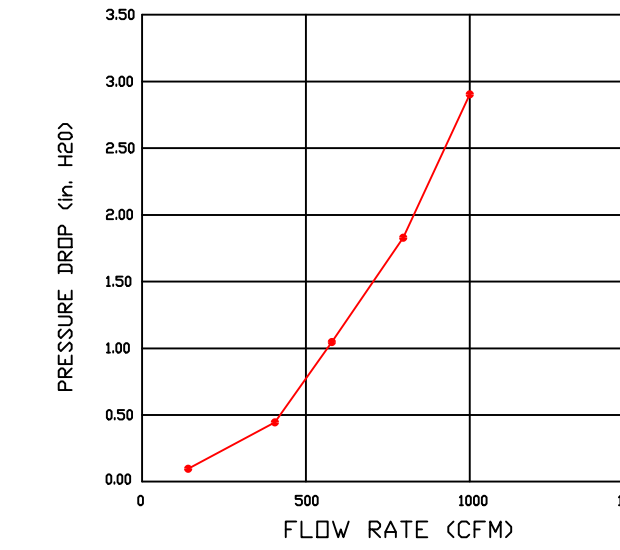
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

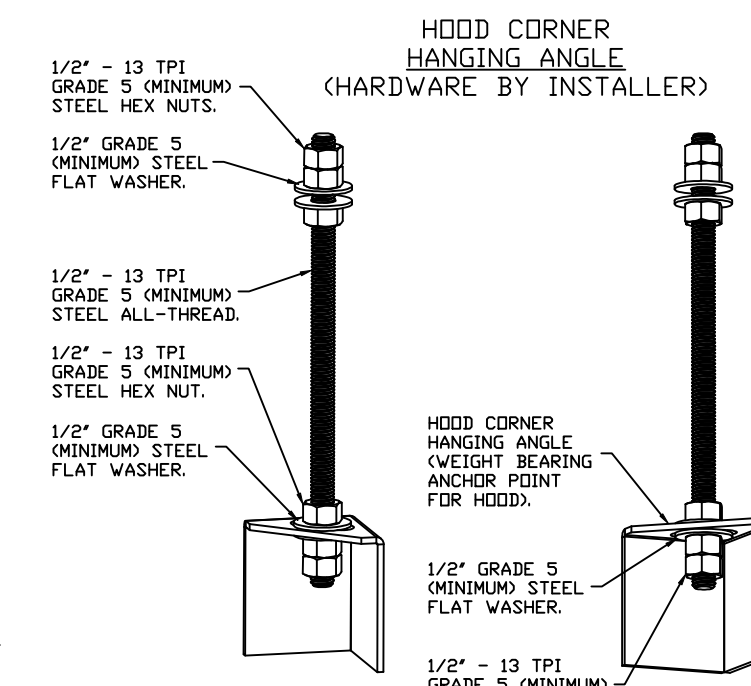
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

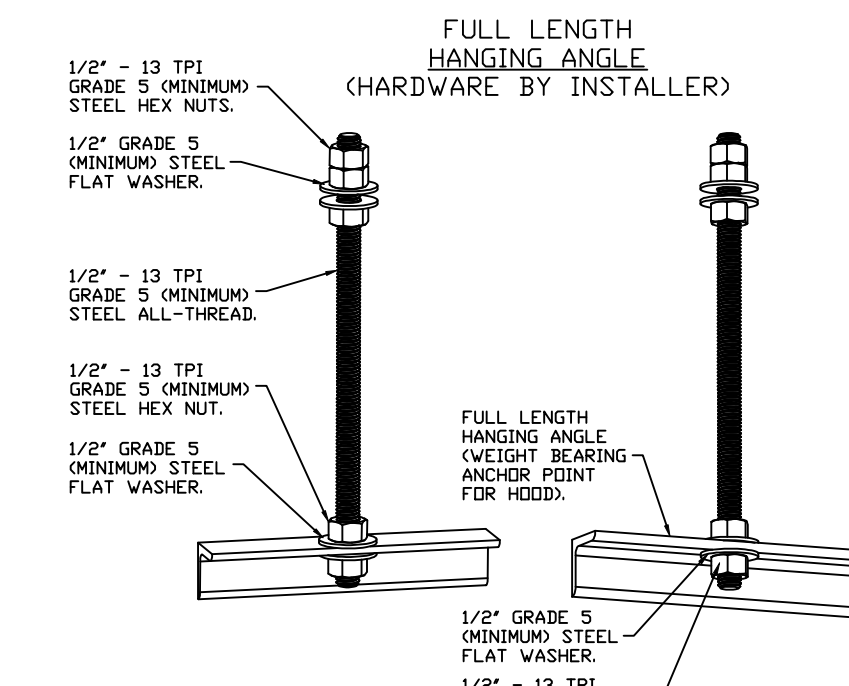


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96.  
NSF STANDARD #2.  
UL STANDARD #1046.  
INT. MECH. CODE (IMC).  
ULC-S649.



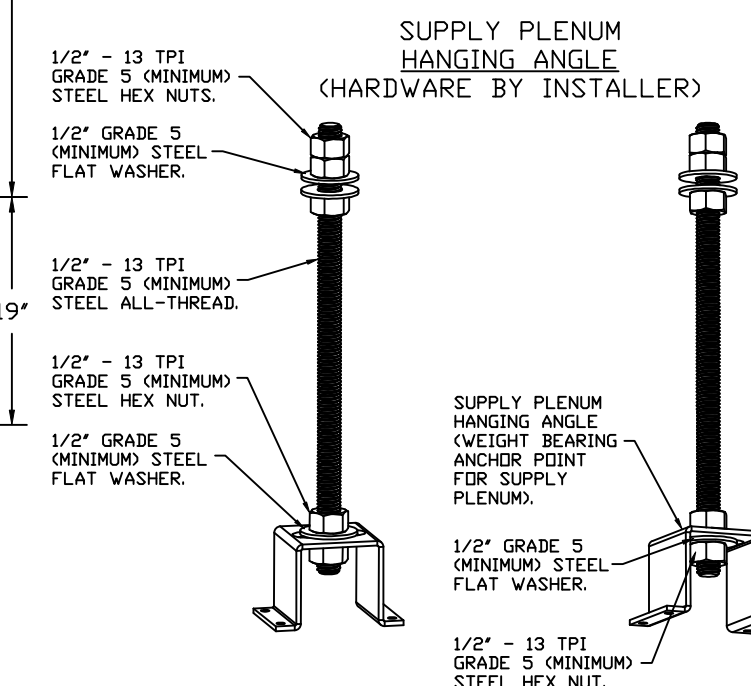
**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



**ASSEMBLY INSTRUCTIONS**

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**ASSEMBLY INSTRUCTIONS**

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**National Engineering, Ltd**

4635 Trueman Blvd, Suite 250  
Hilliard, OH 43026  
(614) 751-9610

**Approved**

**Approved as Revise**

**Noted**

**Rejected**

**BY Edgar Palma**      **DATE 6/23/2025**

**SUBMITTAL# 1**      **SPEC CaptiveAire**

Approval is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

**REVISIONS**

DESCRIPTION	DATE

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**Highwoods Group**

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CHIPOTLE LYNDEN WA #5890\_R1

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Lynden, WA, 98264

DATE: 6/16/2025

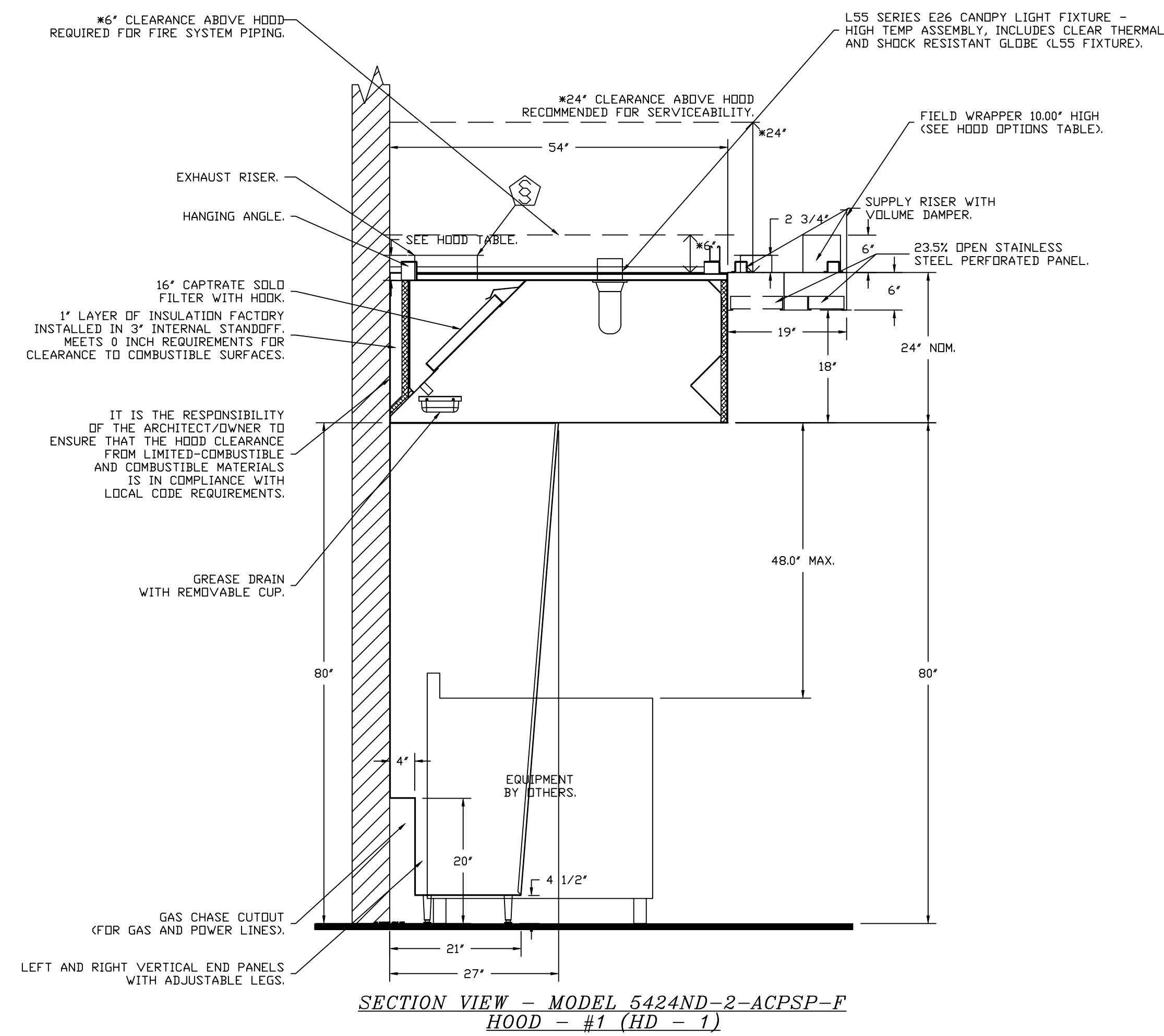
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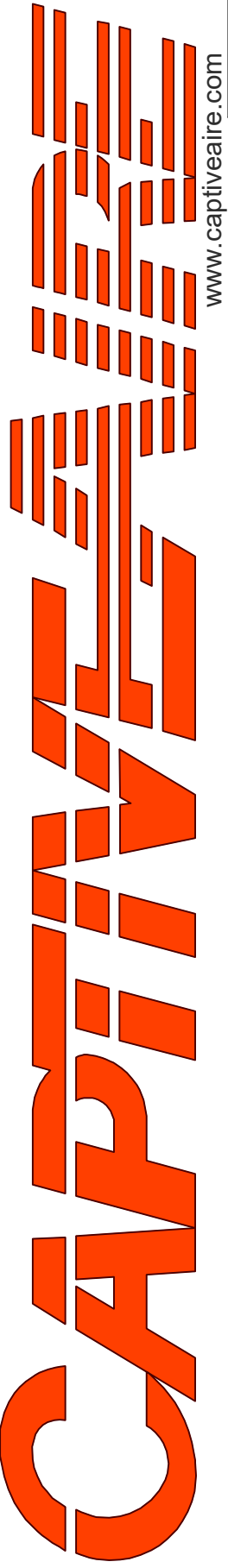
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1



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**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

**SHEET NO.**  
 2

**FIRE SYSTEM INFORMATION - JOB#7552739**

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET LEFT	LEFT, HOOD 1

**GAS VALVE(S)**

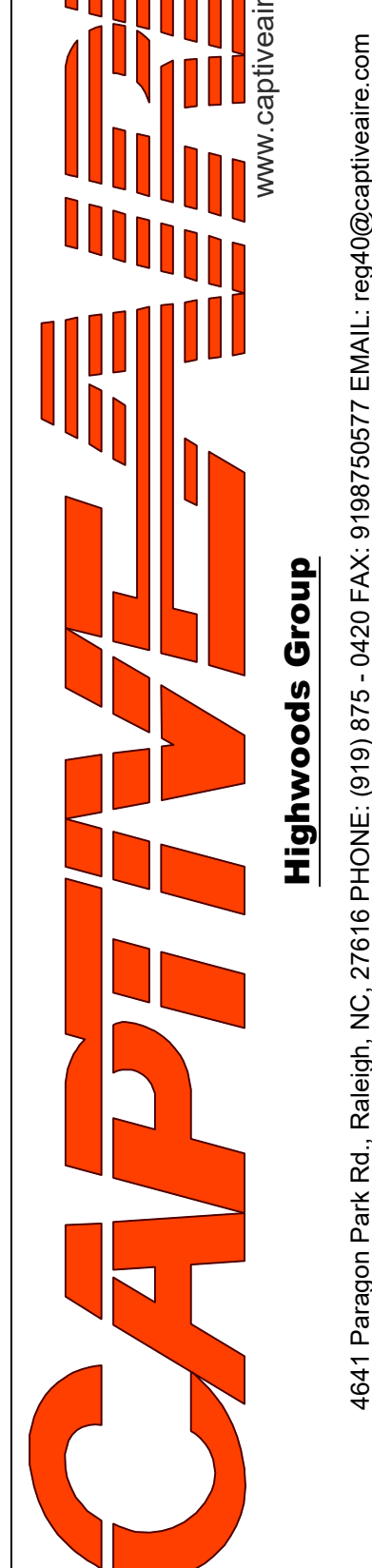
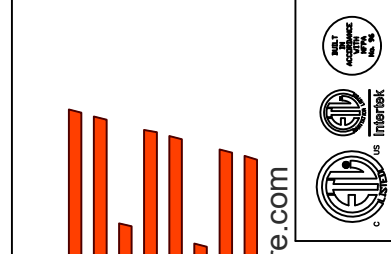
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.250	CAPTIVEAIR SYSTEMS

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL).	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	7	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	7	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5' DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	3	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	8	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	8	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

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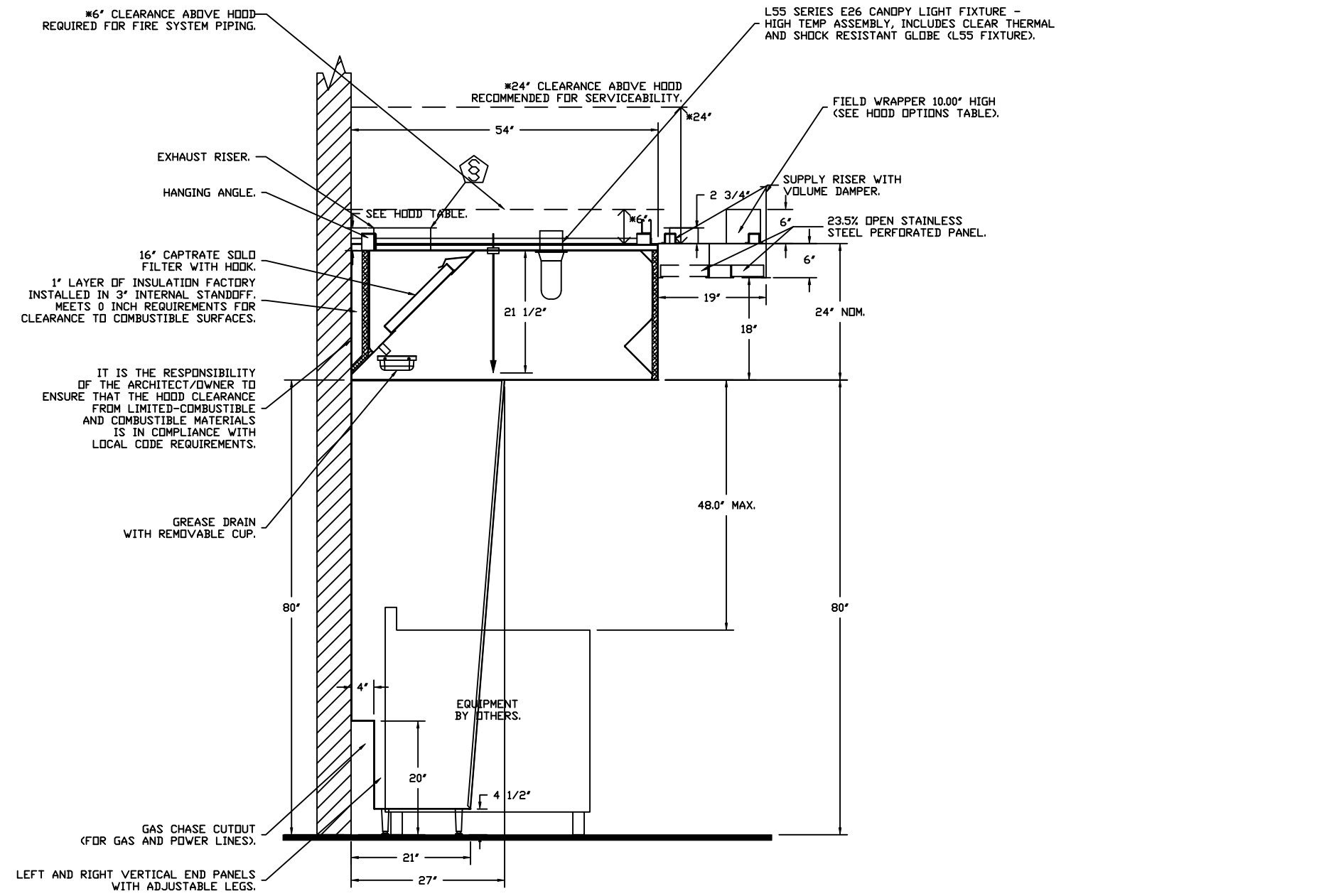
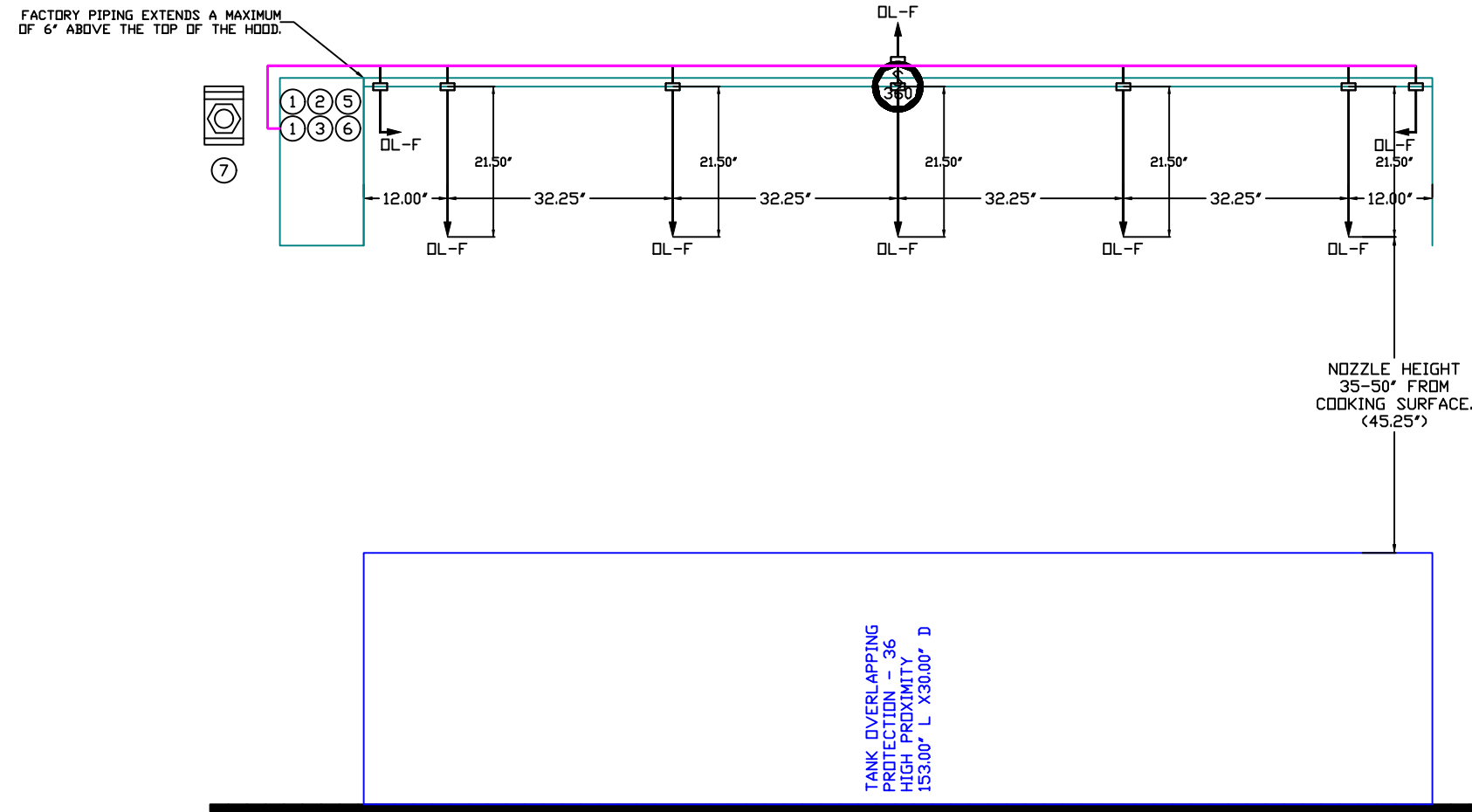
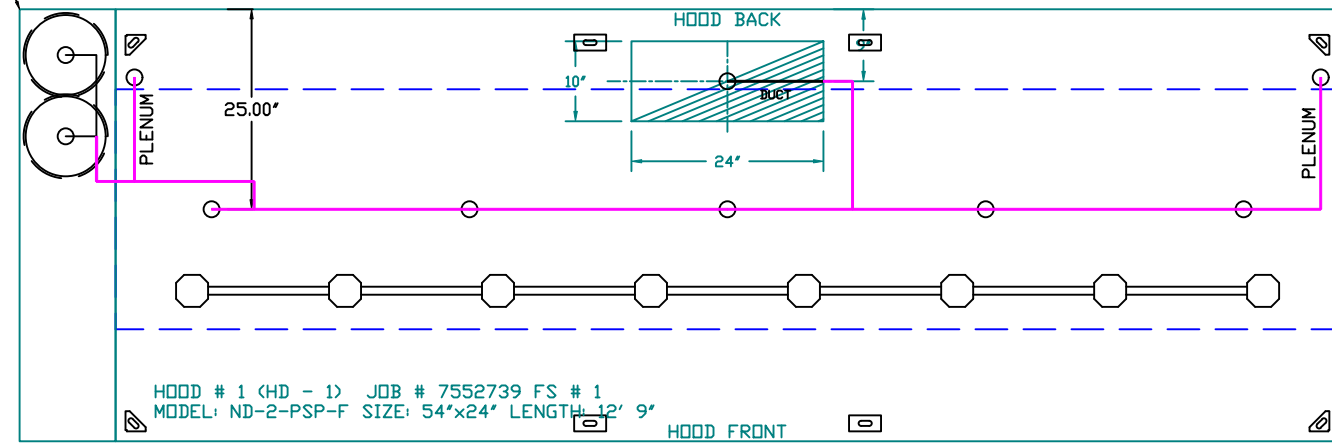
**DRAWN BY:** JMB-40

**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
3

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.5 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



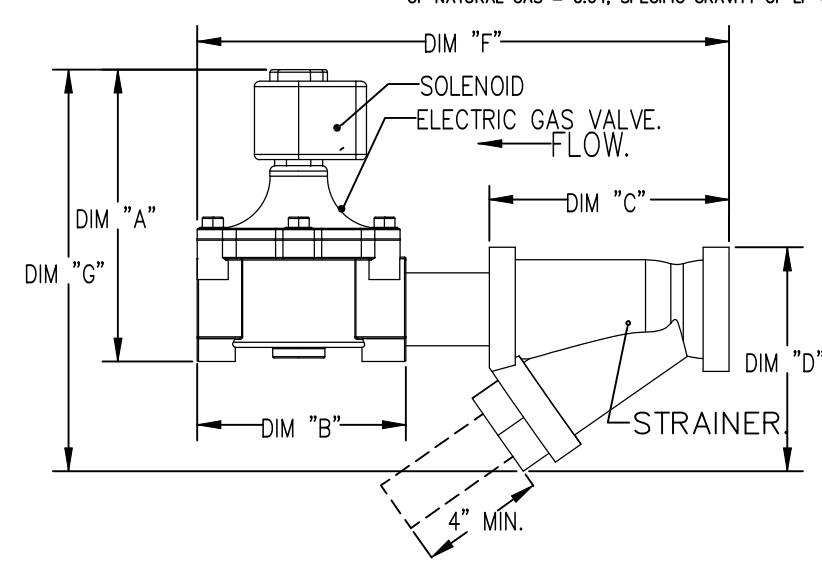
SECTION VIEW - MODEL 5424ND-2-ACPS-P  
HOOD - #1

GAS VALVES AND STRAINERS															
GAS VALVE SIZING				GAS VALVE DIMENSIONS				INSTALLATION		PART NUMBERS					
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR F54	ELECTRICAL	1-1/4"	24 VDC	0 PSIG (0 IN.W.C.)	1,925,000 BTU/HR	1,249,100 BTU/HR	7-5/8"	6-3/8"	5-1/8"	5-15/16"	13-1/2"	HORIZONTAL	8214266-24VDC	4417968	(SEE SPEC)-1/4-24

**ELECTRIC GAS VALVES ONLY (SOLIDIOD ORIENTATION)**  
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL. 2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.  
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

**ALL GAS VALVES/STRAINERS**  
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS. A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING, SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

**CALCULATIONS**  
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP: NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.85</sup>  
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY: NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.85</sup>



**NOTES**

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP; FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP; FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

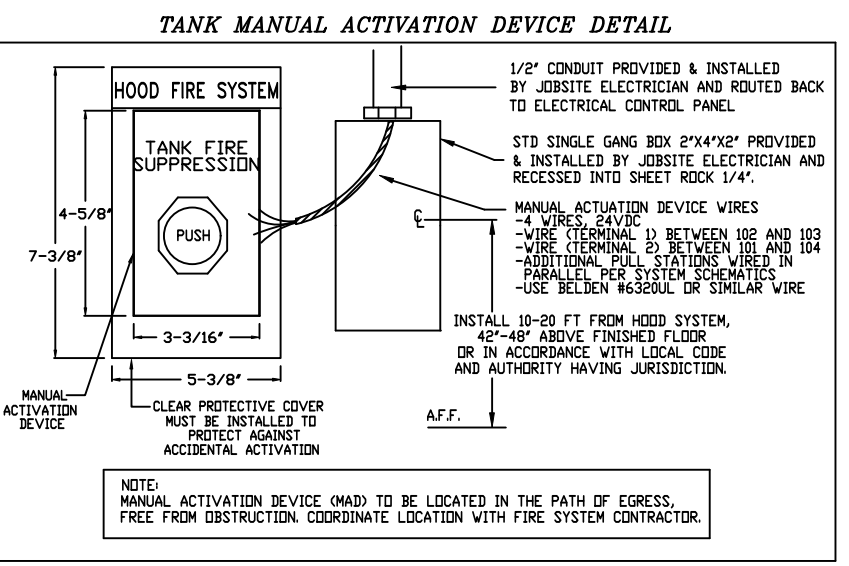
JOB #: 7552739  
JOB NAME: CHIPOTLE LYNDEN WA #5890\_R1

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32. MAXIMUM FP: 40.  
HOOD # 1 12' 9.00' LONG x 54' WIDE x 24" HIGH.  
RISER # 1 SIZE: 10" x 24".  
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

- LEGEND - FIRE CABINET TANK SYSTEM**
- 4 GALLON TANK.
  - PRIMARY ACTUATOR RELEASE.
  - SECONDARY ACTUATOR RELEASE.
  - PRESSURE SUPERVISION SWITCH.
  - PRIMARY HOSE ASSEMBLY.
  - SECONDARY HOSE ASSEMBLY.
  - REMOTE MANUAL ACTUATION DEVICE.



INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST). ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2" PERMIT, AND SYSTEM TEST.

EXCLUDES: UNION LABOR & PREVAILING WAGE LABOR & WAGES WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHERS, ON-SITE RE-PIPPING DUE TO EQUIPMENT LAYOUT CHANGES.

**REVISIONS**

DESCRIPTION	DATE:

**CAPTIVE**

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SCALE:  
1/2" = 1'-0"

MASTER DRAWING

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4

**EXHAUST FAN INFORMATION – JOB#7552739**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	DUI80HFA	CAPTIVEAIRE	2550	1.450	1220	TEFC,PREMIUM	2.000	1.2800	3	208	7.3	589 FPM	199	16.6
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1282	TEAD-ECM	0.250	0.0930	1	115	2.9		50	6.1

**MUA FAN INFORMATION – JOB#7552739**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SDNES
3	MAU-1	1	A1-E.362-15D	15MF-1-MDD	A1-E.362	800	1300	0.500	1444	DDP	0.750	0.4780	3	208	2.5	90.9A	100A	471	10.6

**ELECTRIC MAKE-UP AIR UNIT(S)**

FAN UNIT NO	TAG	DSGN KW'S	MAX KW'S	PHASE	VOLTS	AMPERAGE	TEMP RISE	OUTPUT BTUs
3	MAU-1	21	36	3	208	86.6	45 °F	122868

**FAN ACCESSORIES**

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					
3	MAU-1					YES		

**CURB ASSEMBLIES**

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500*W X 26.500*L X 20.000*H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500*W X 17.500*L X 26.000*H.
3	# 3	MAU-1	65 LBS	CURB	21.000*W X 71.000*L X 20.000*H INSULATED.

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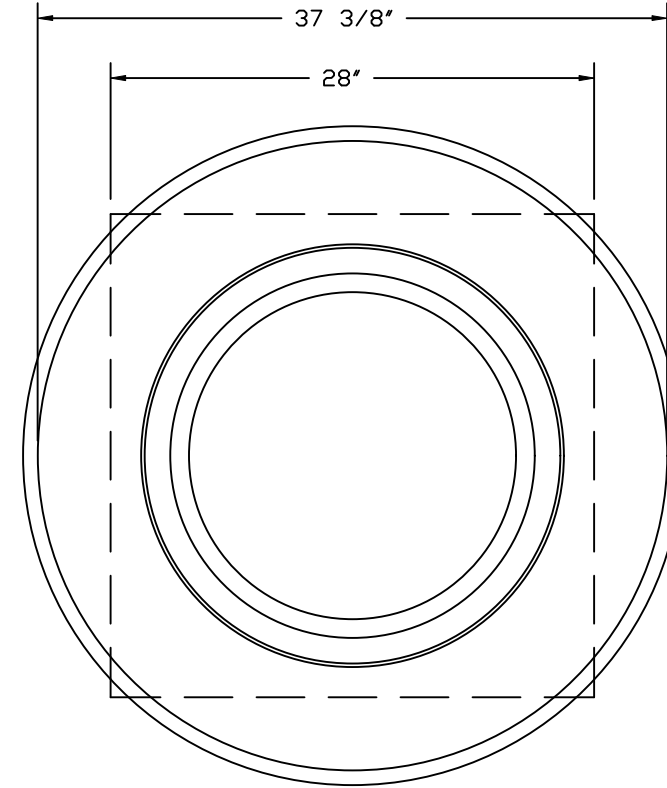
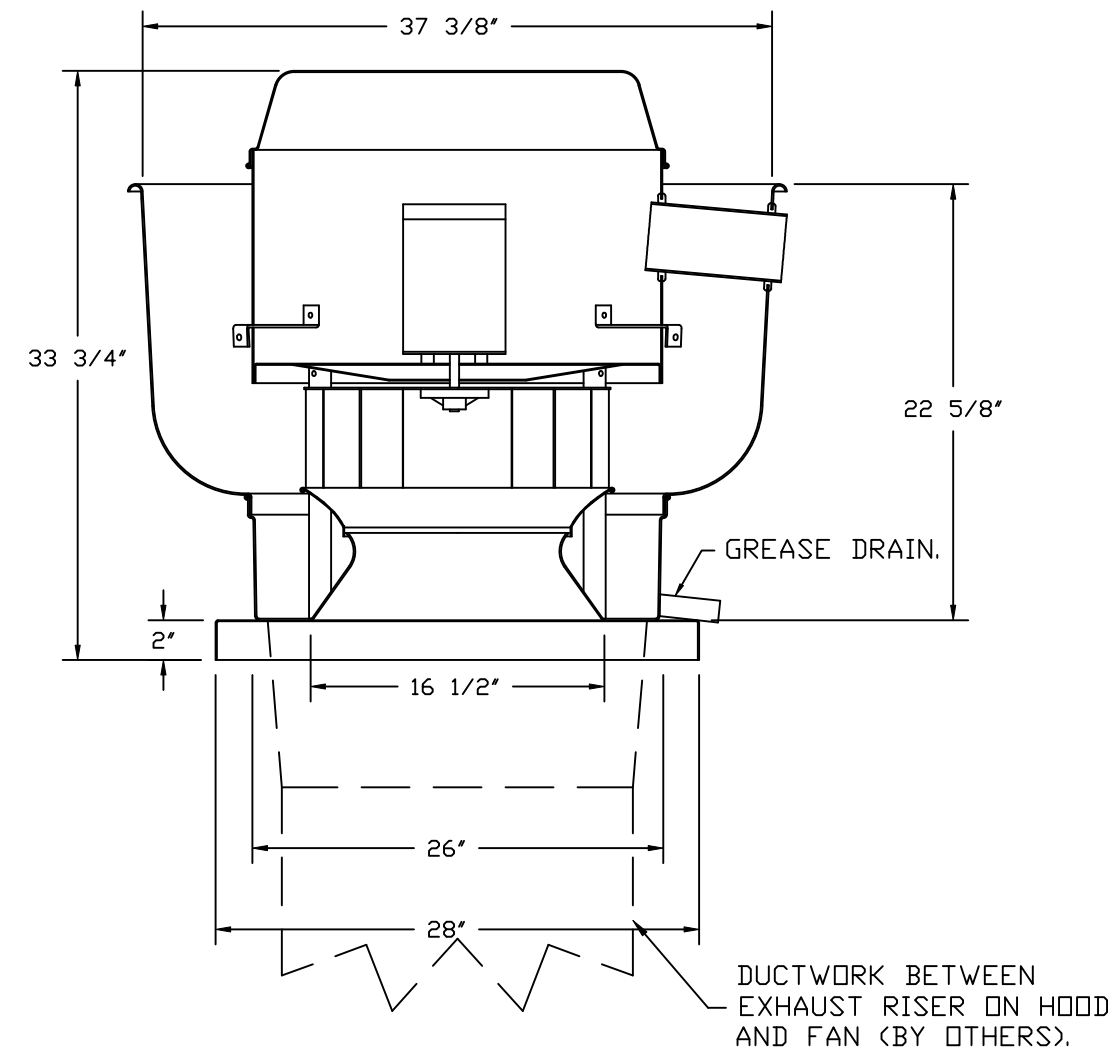
**SHEET NO.**

5

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BDX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- <TELCD MOTOR>, CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	EH 1 MUA CONTROLS SHEET METAL
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	TOTAL CFM MONITORING
		1	FREEZESTAT
		1	SINGLE POINT CONNECTION - ELECTRIC HEATER - THREE PHASE - BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. IF A NON-DCV PREWIRE IS USED ON THE EH, #28, #47, MA OR E2 PREWIRE OPTION MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
1	2 YEAR PARTS WARRANTY		

FAN #1 DU180HFA - EXHAUST FAN (EF-1)



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

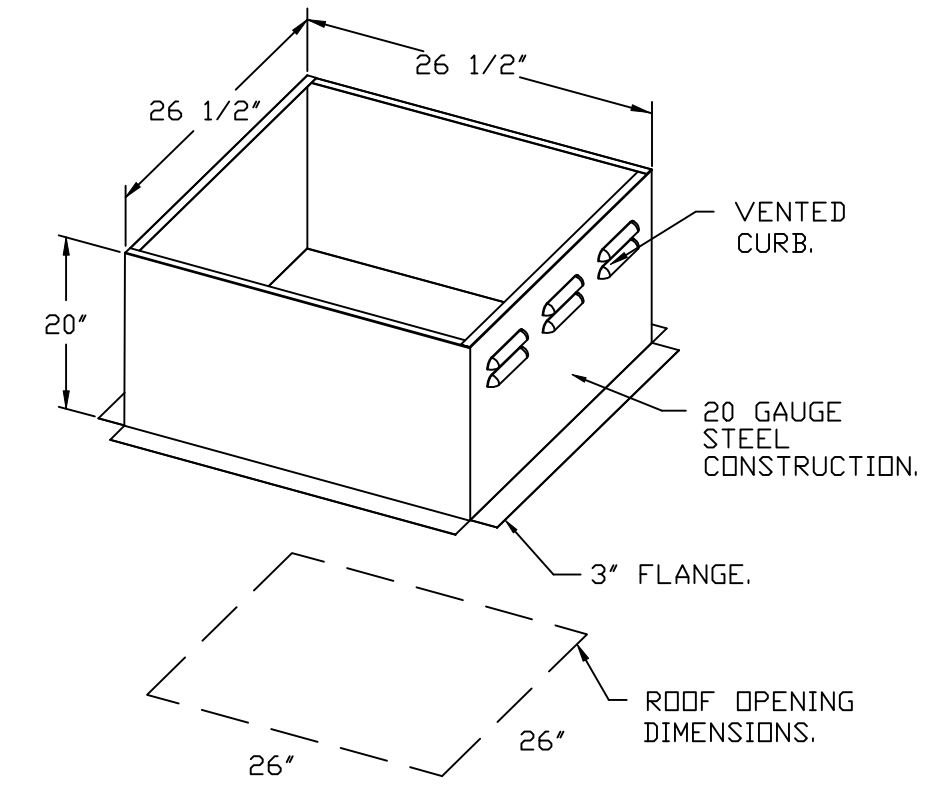
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BDX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- 2 YEAR PARTS WARRANTY.

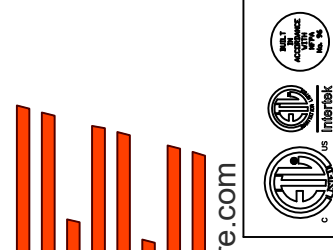


HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

REVISIONS

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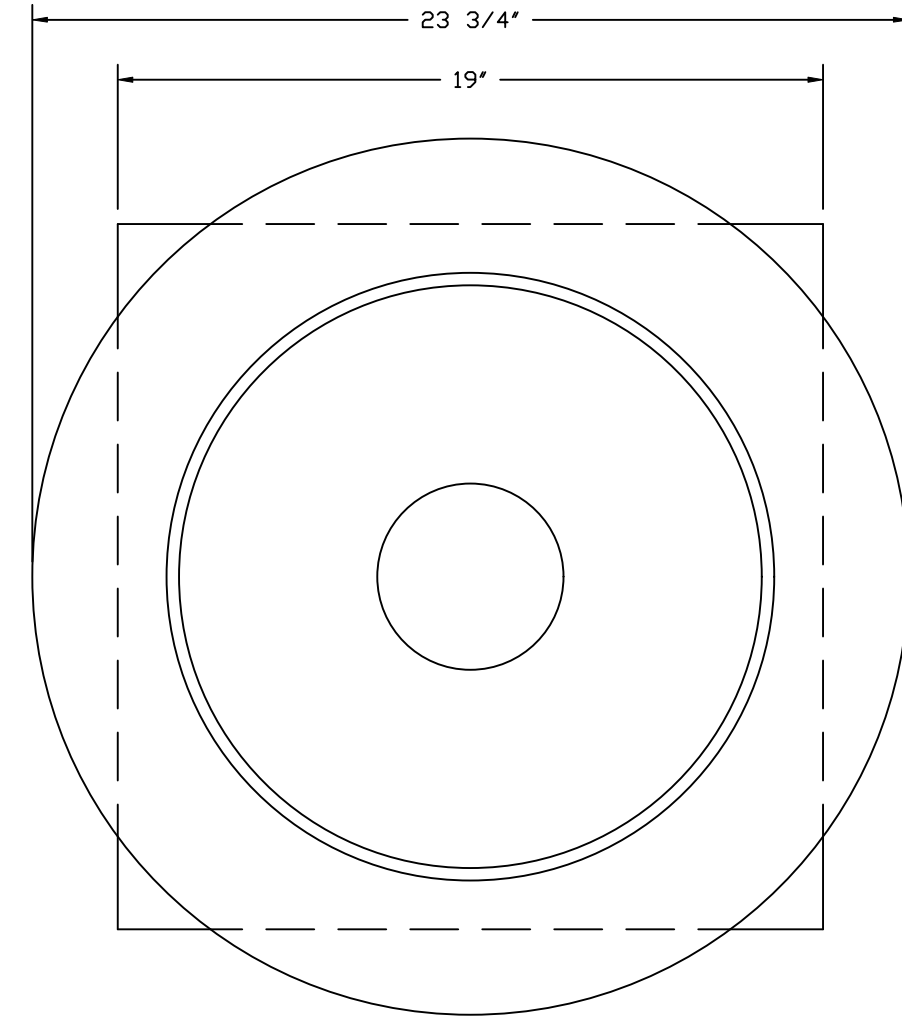
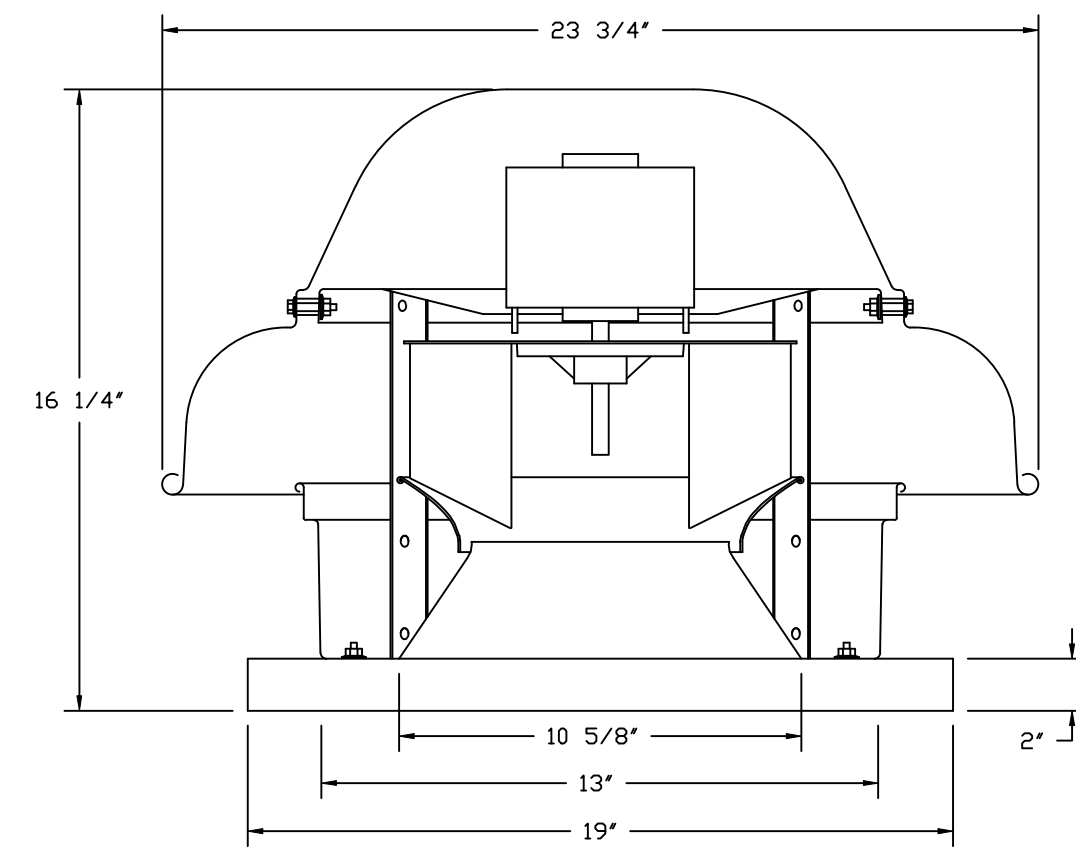
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SHEET NO.

FAN #2\_DR12HFA - EXHAUST FAN (EF-2)



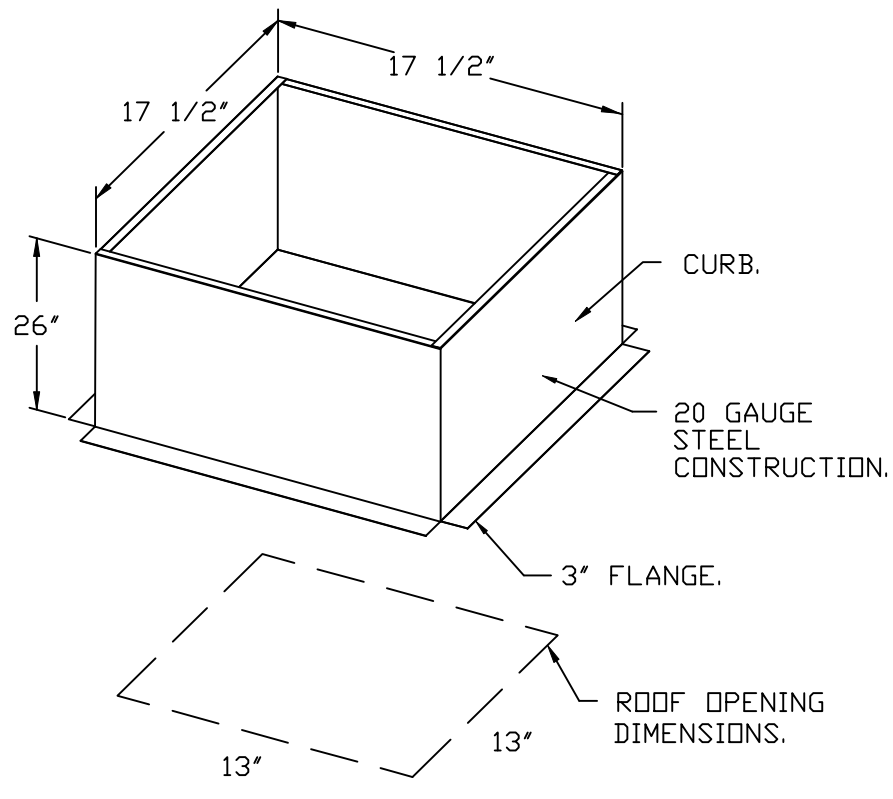
TOP VIEW

**FEATURES:**

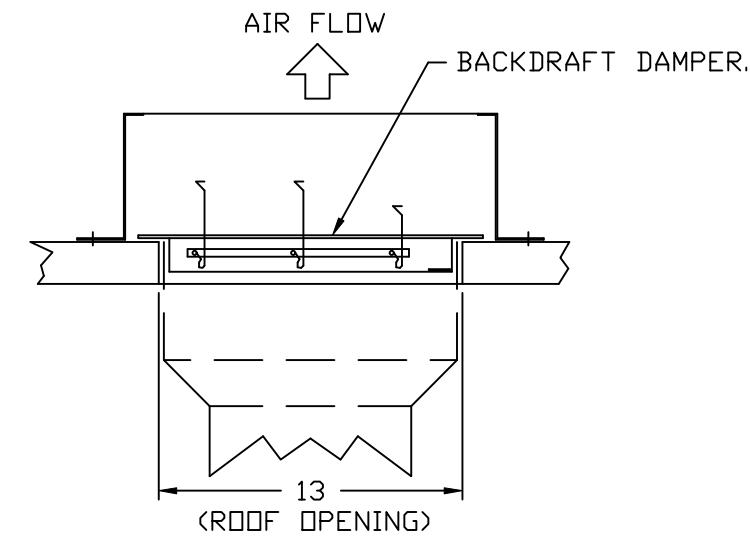
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

**OPTIONS:**

- 1 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTC - (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



**BACKDRAFT DAMPER INSTALLATION**



REVISIONS	
DESCRIPTION	DATE:

**Highwoods Group**  
www.captiveaire.com  
4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: 9198750577 EMAIL: reg40@captiveaire.com

CHIPOTLE LYNDEN WA #5890\_R1  
 8083 Guide Meridian Road,  
 Lynden, WA, 98264

<b>DATE:</b> 6/16/2025
<b>DWG.#:</b> 7552739
<b>DRAWN BY:</b> JMB-40
<b>SCALE:</b> 3/4" = 1'-0"
<b>MASTER DRAWING</b>

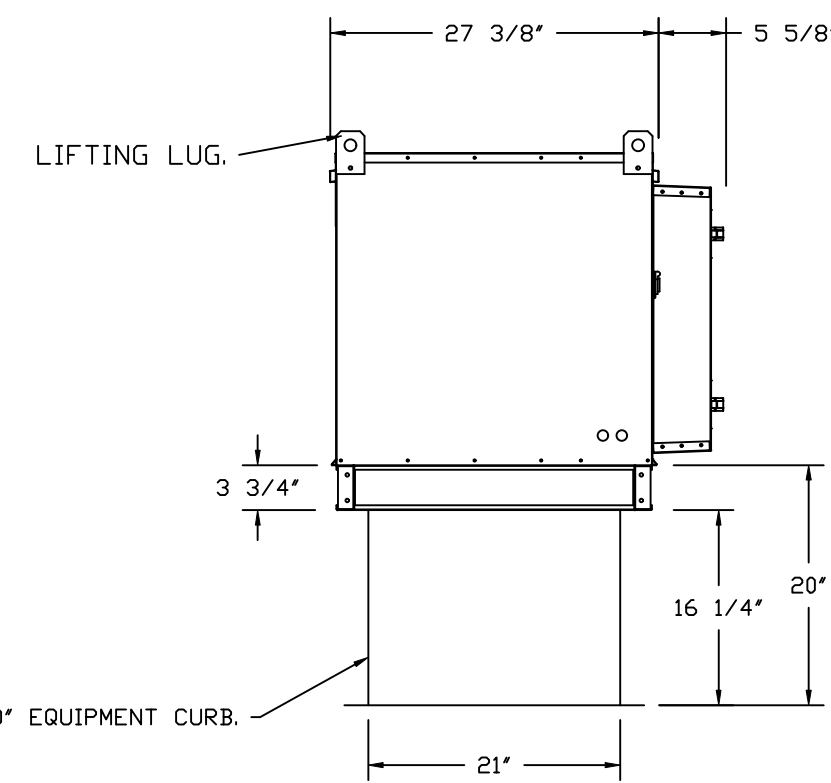
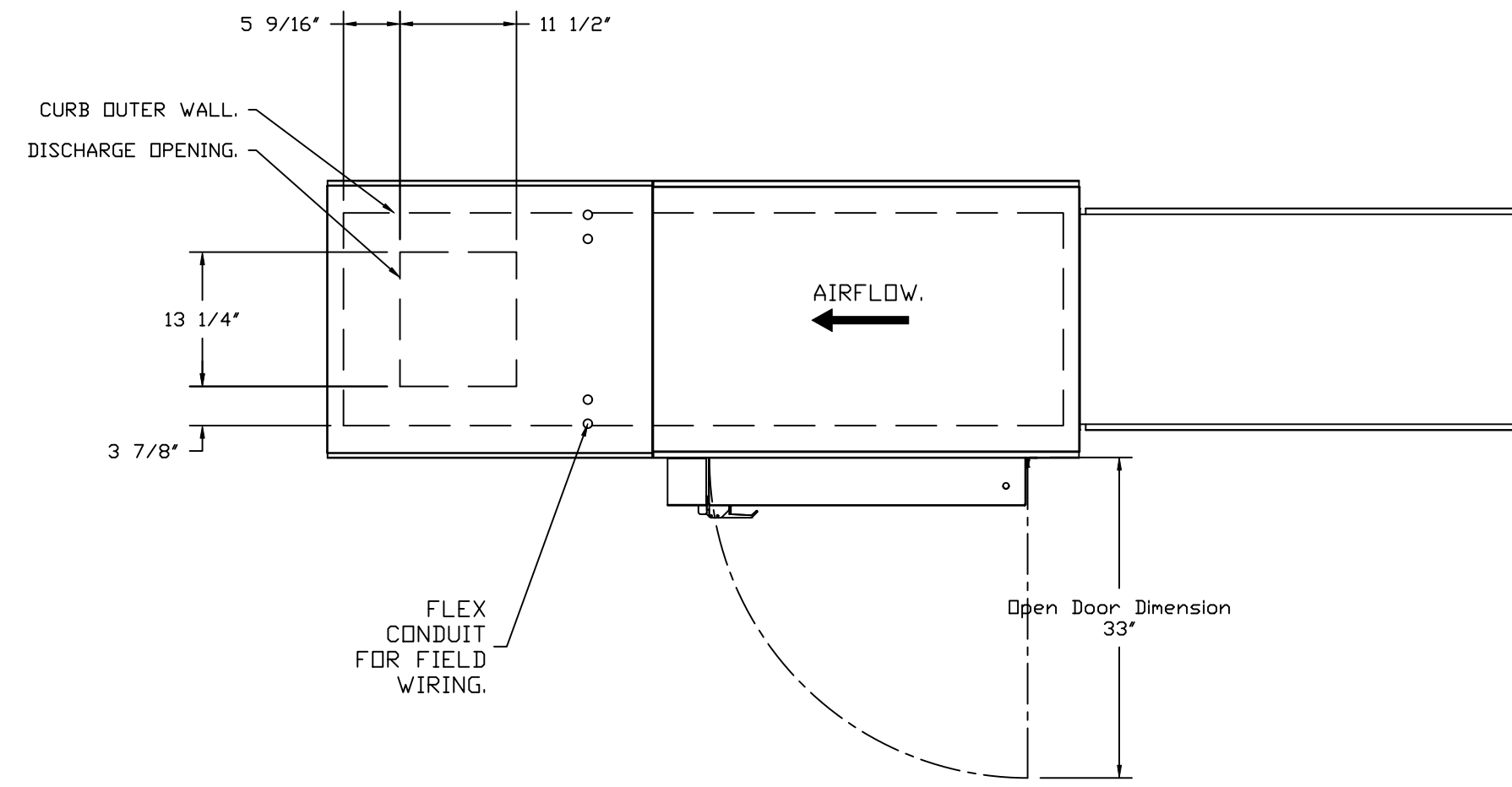
**SHEET NO.**  
7

- FAN #3 AI-E-362-1SD - HEATER (MAU-1)  
 1. ELECTRIC HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN AND A 3 STAGES TOTAL, 1 MODULATING, 36KW  
 240 - 3 COIL.  
 2. INTAKE HOOD WITH E2 FILTERS.  
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.  
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.  
 5. SIZE 1 ELECTRIC HEATER WITH MUA CONTROLS SHEET METAL.  
 6. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB20S ACTUATOR INCLUDED.  
 7. CFM MONITORING FOR MUA UNITS. USES RIVET NUTS, 1/4" AIRFLOW TUBING AND PUSH TO CONNECT FITTINGS.  
 8. FREEZE STAT.  
 9. SINGLE POINT CONNECTION FOR THREE PHASE ELECTRIC HEATERS - NOT USED WITH MULTIPLE HEAT MODULES.  
 10. UNIT MOUNTED VFD FOR USE WITH ECPM03.  
 11. 2 YEAR PARTS WARRANTY.

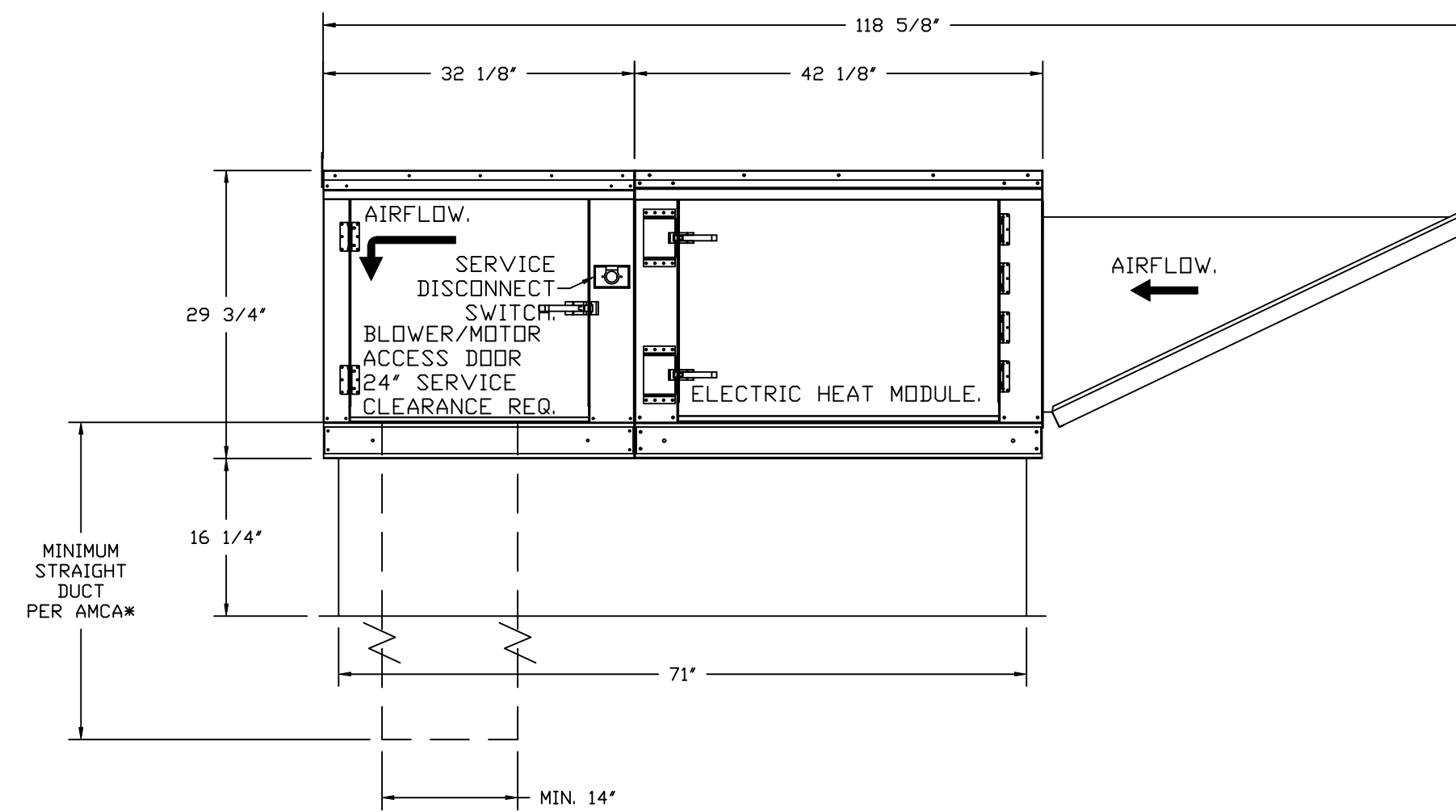
\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

SUPPLY SIDE HEATER INFORMATION:

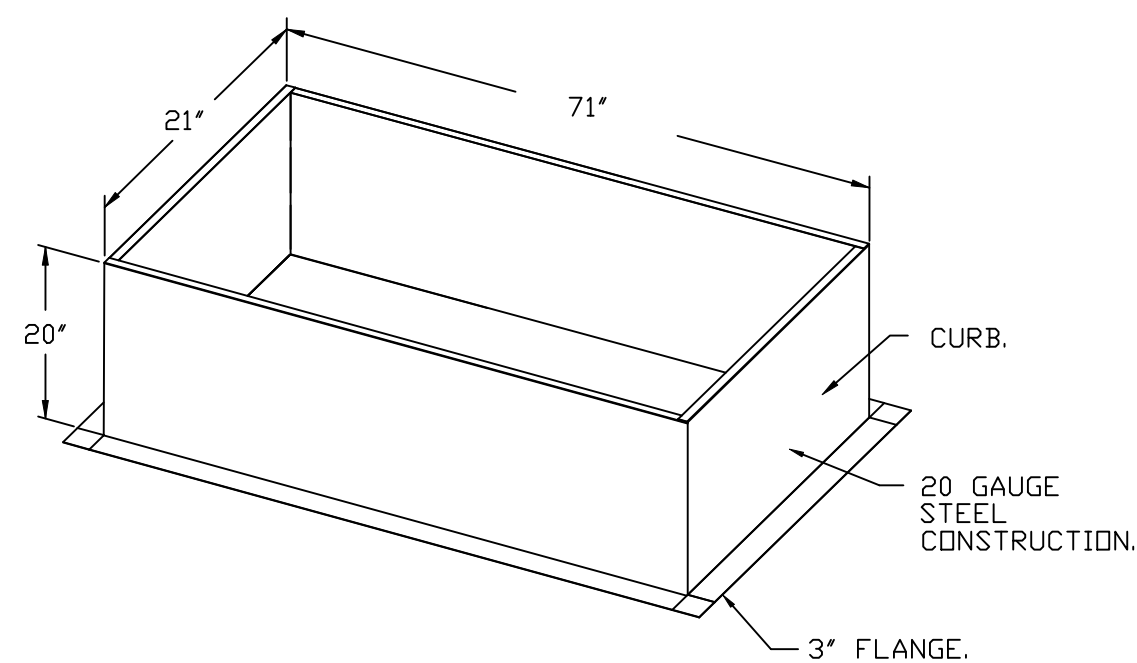
WINTER TEMPERATURE = 24°F. TEMP. RISE = 52°F.  
 KWs CALCULATED OFF ACTUAL AIR DENSITY.  
 KWs AT ALTITUDE OF 00 FT. = 21.  
 KWs AT ALTITUDE OF 61 FT. = 21.



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



OPTIONS:  
 - FULL BOTTOM CORNERS.



REVISIONS

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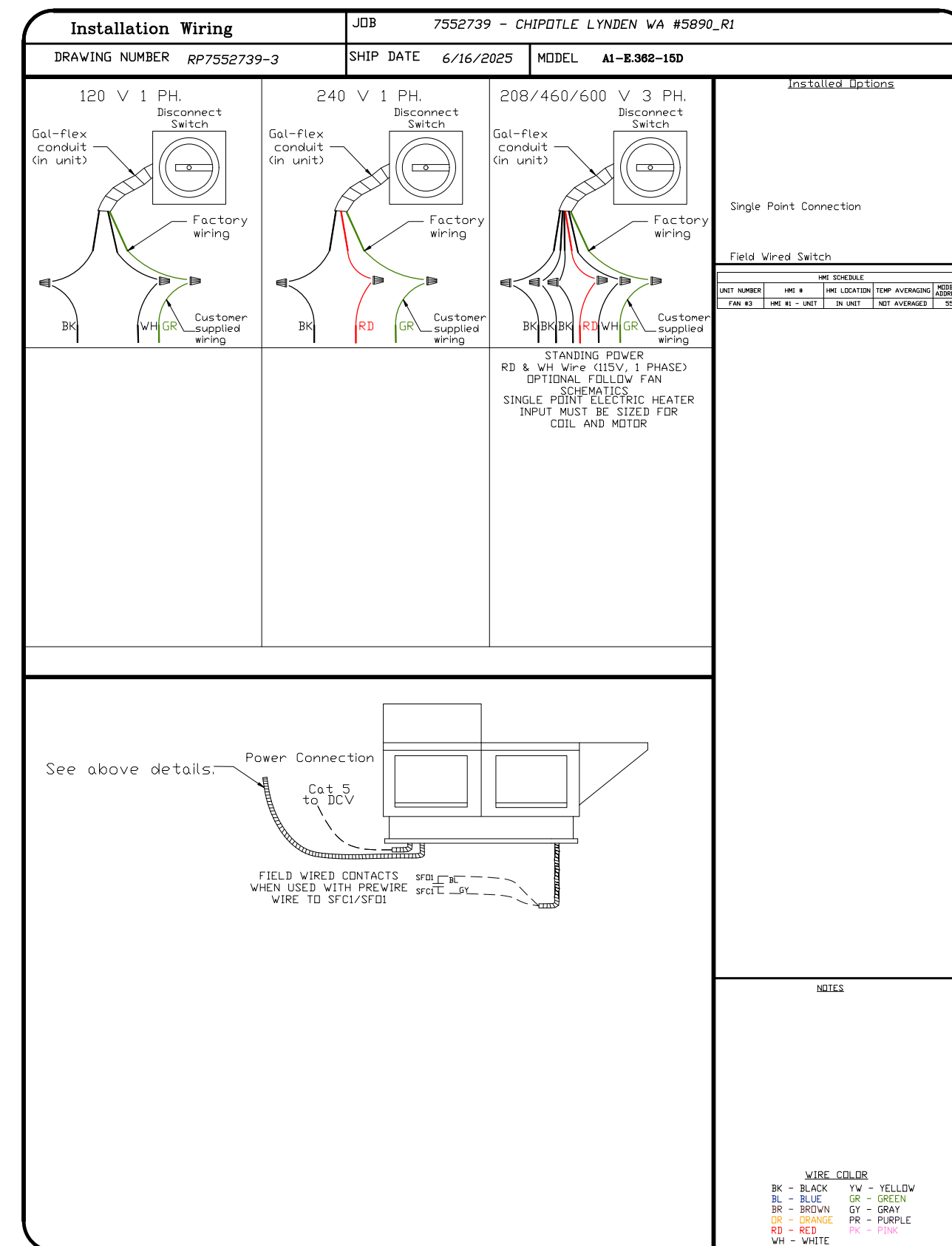
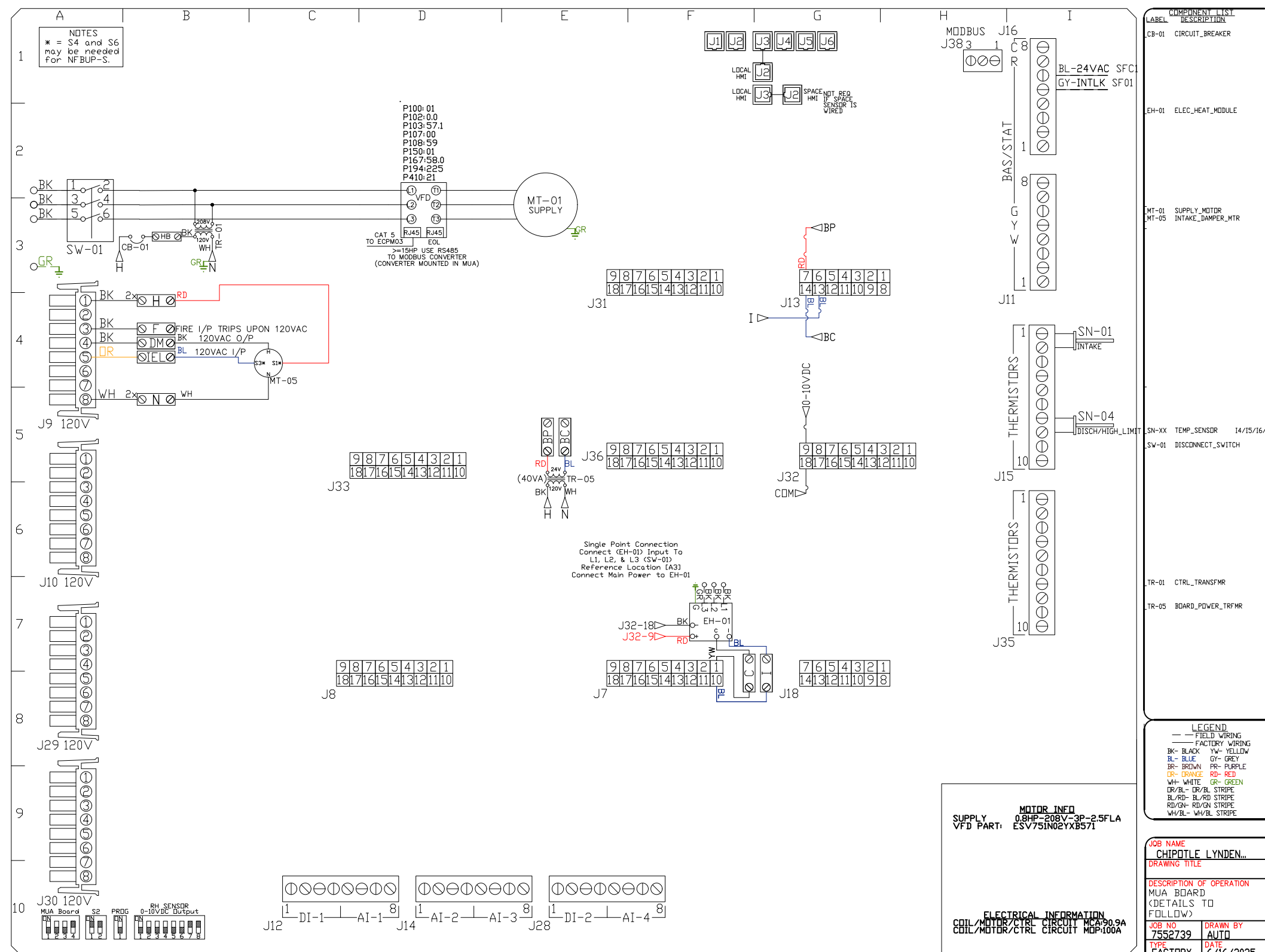
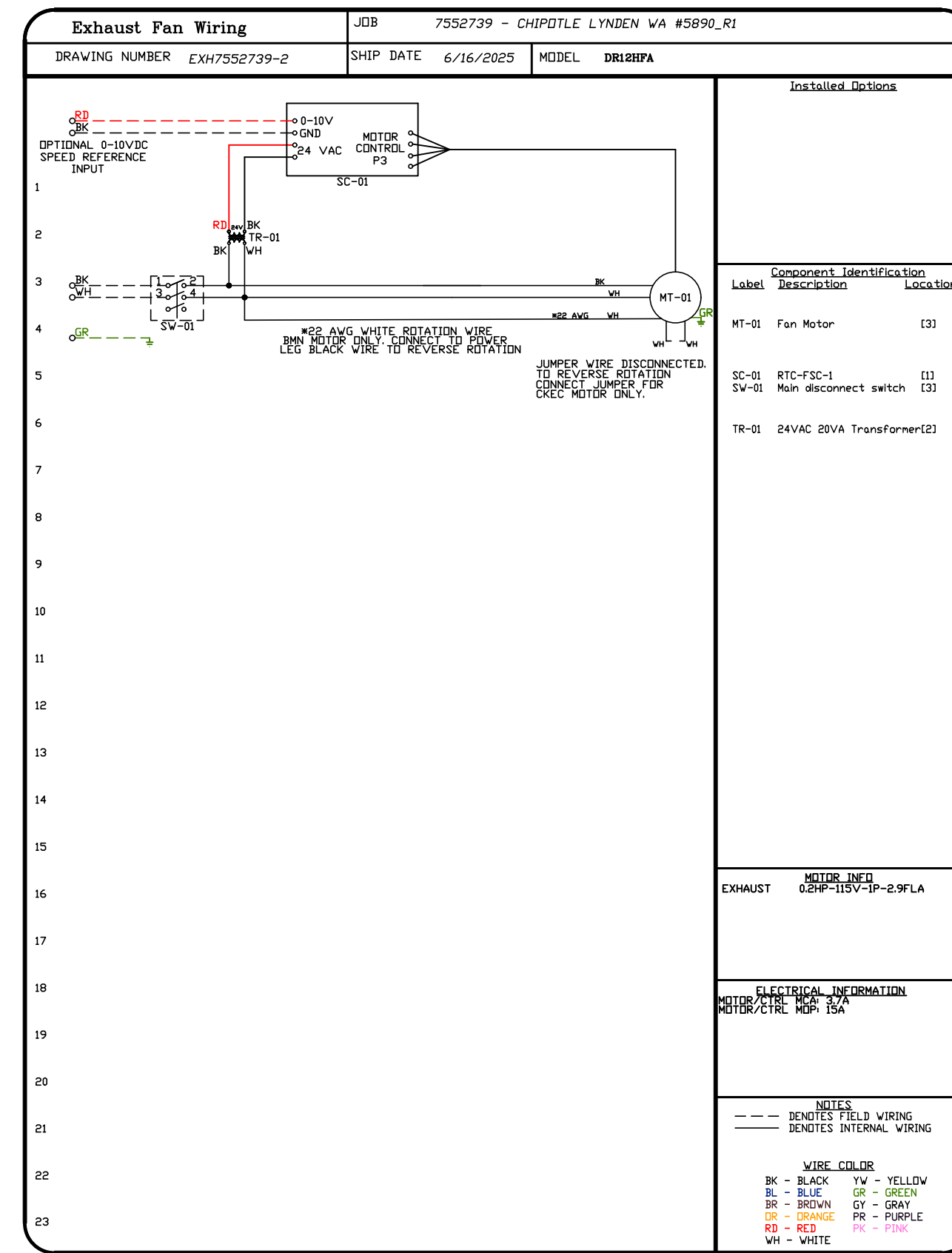
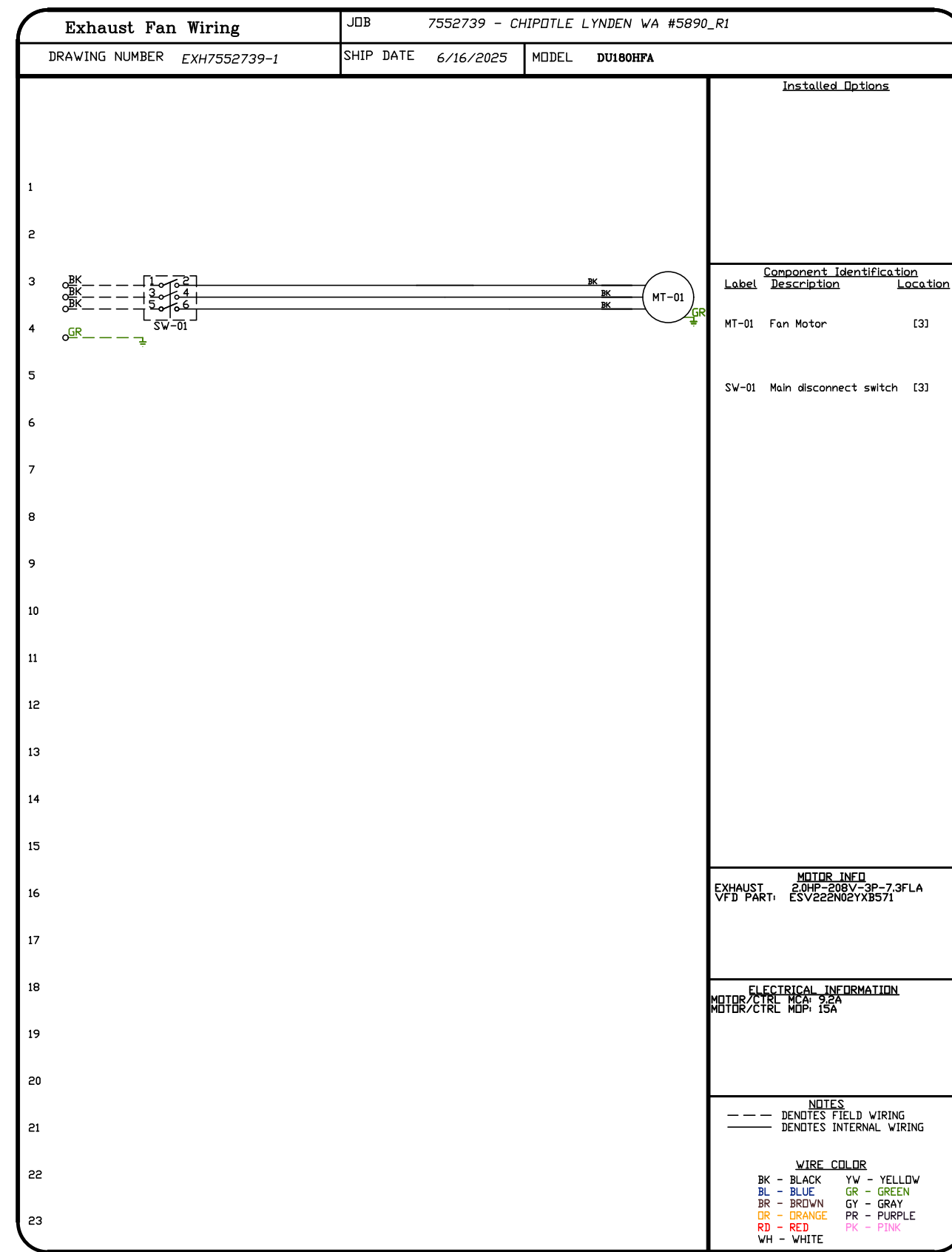
DWG.#:  
 7552739

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SCALE:  
 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.  
 8



REVISIONS	
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 www.captive.com  
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: 9198750577 EMAIL: reg40@captive.com

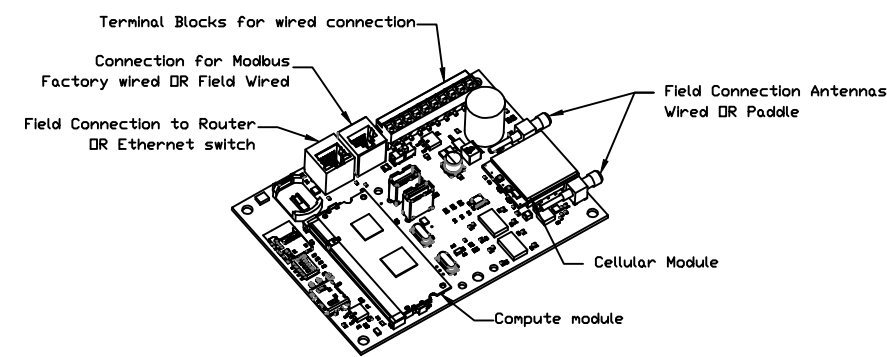
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<b>SCALE:</b> 3/4" = 1'-0"
<b>MASTER DRAWING</b>

**SHEET NO.**  
9

ELECTRICAL PACKAGE - JOB#7552739

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	EF-1	EXHAUST	3	2.000	208	7.3
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	0.750	208	2.5

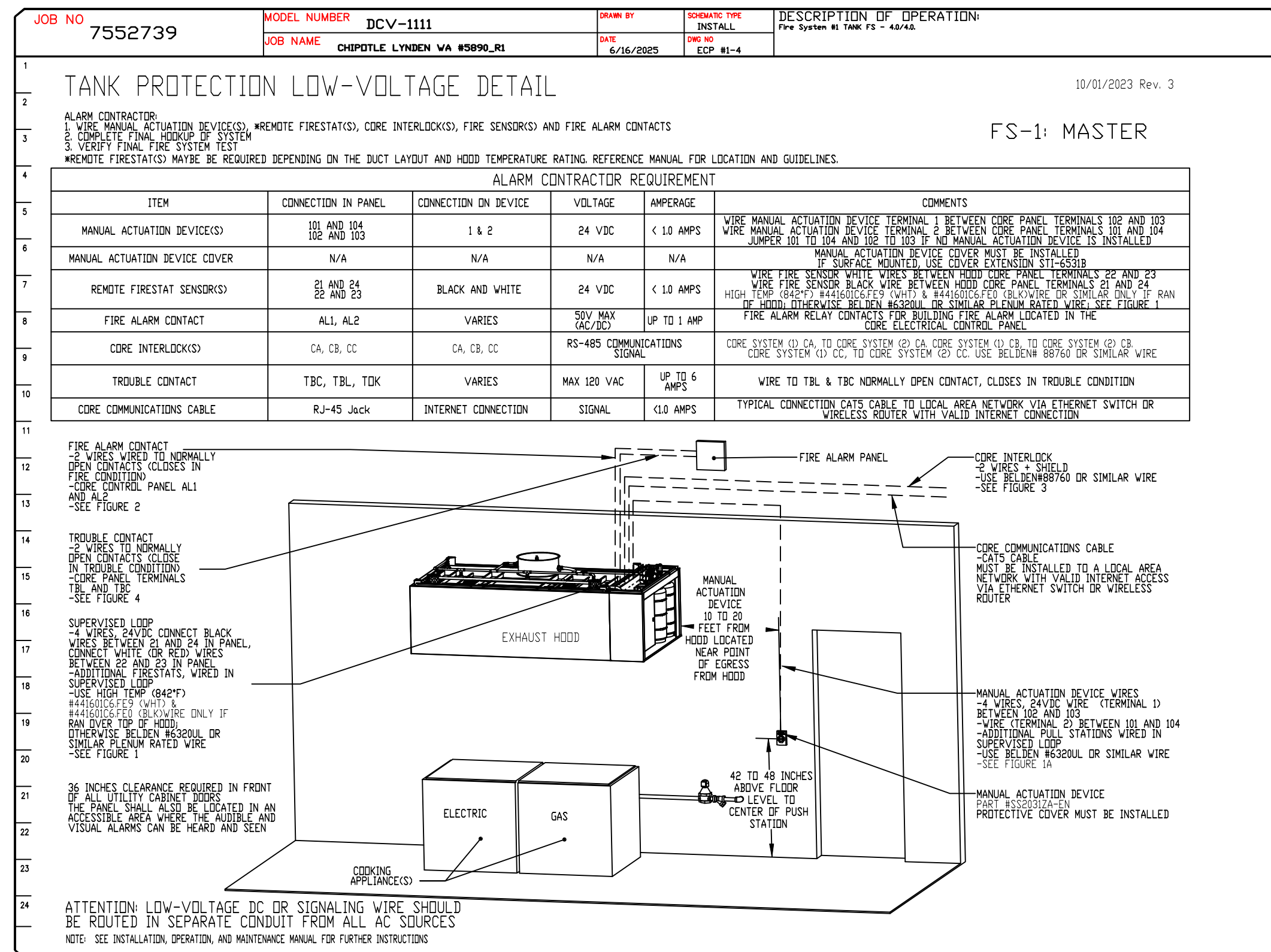
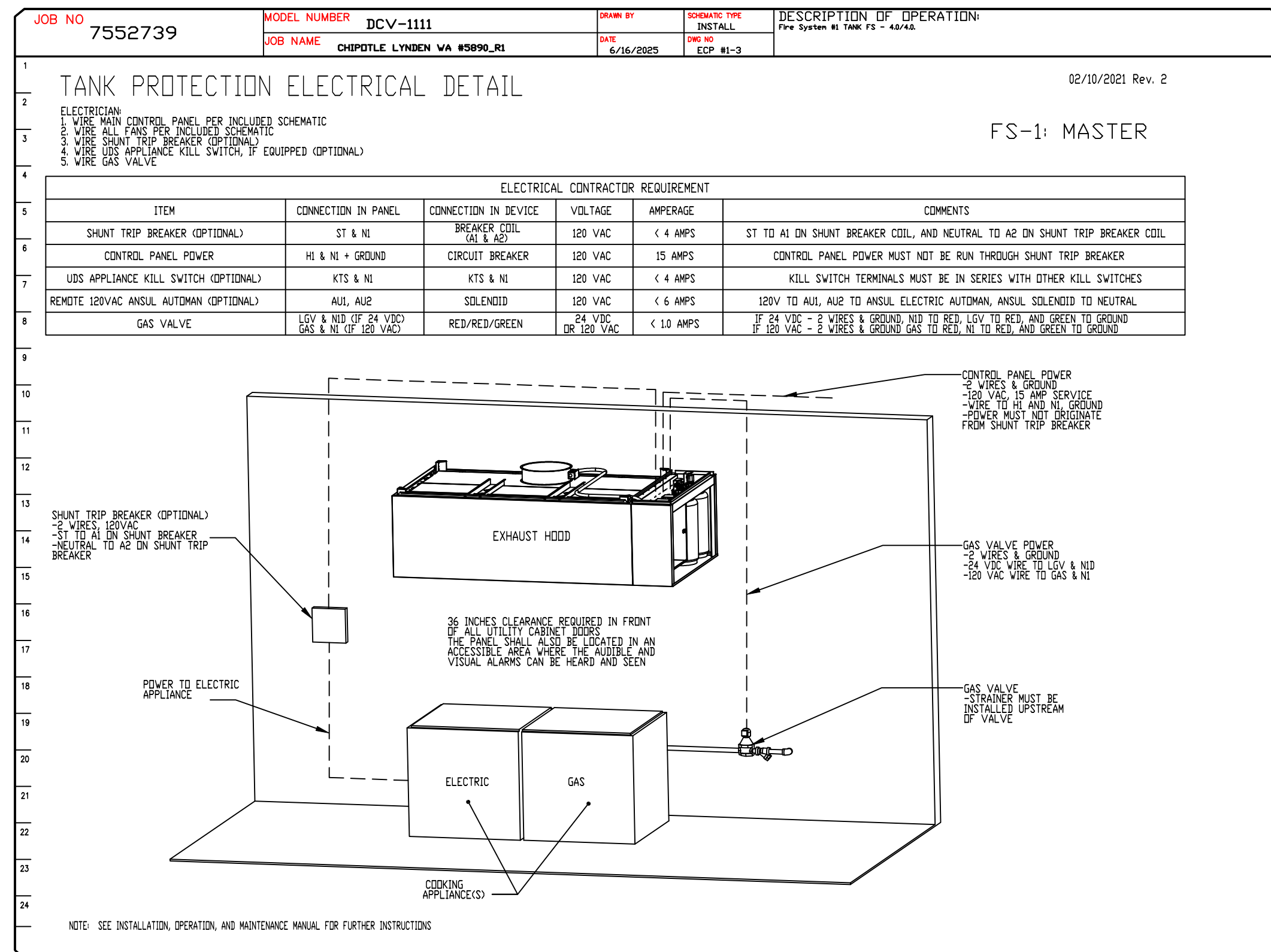
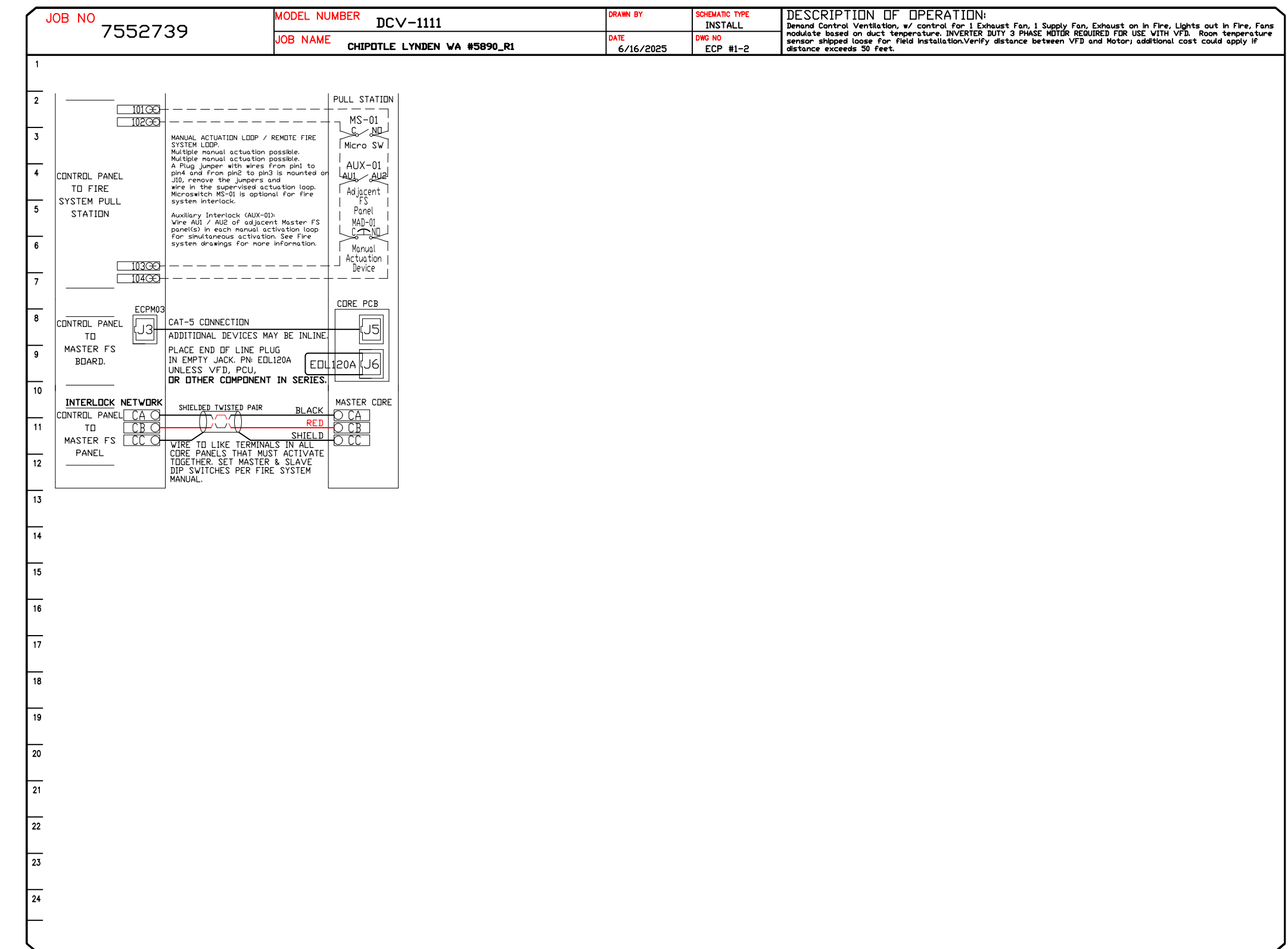
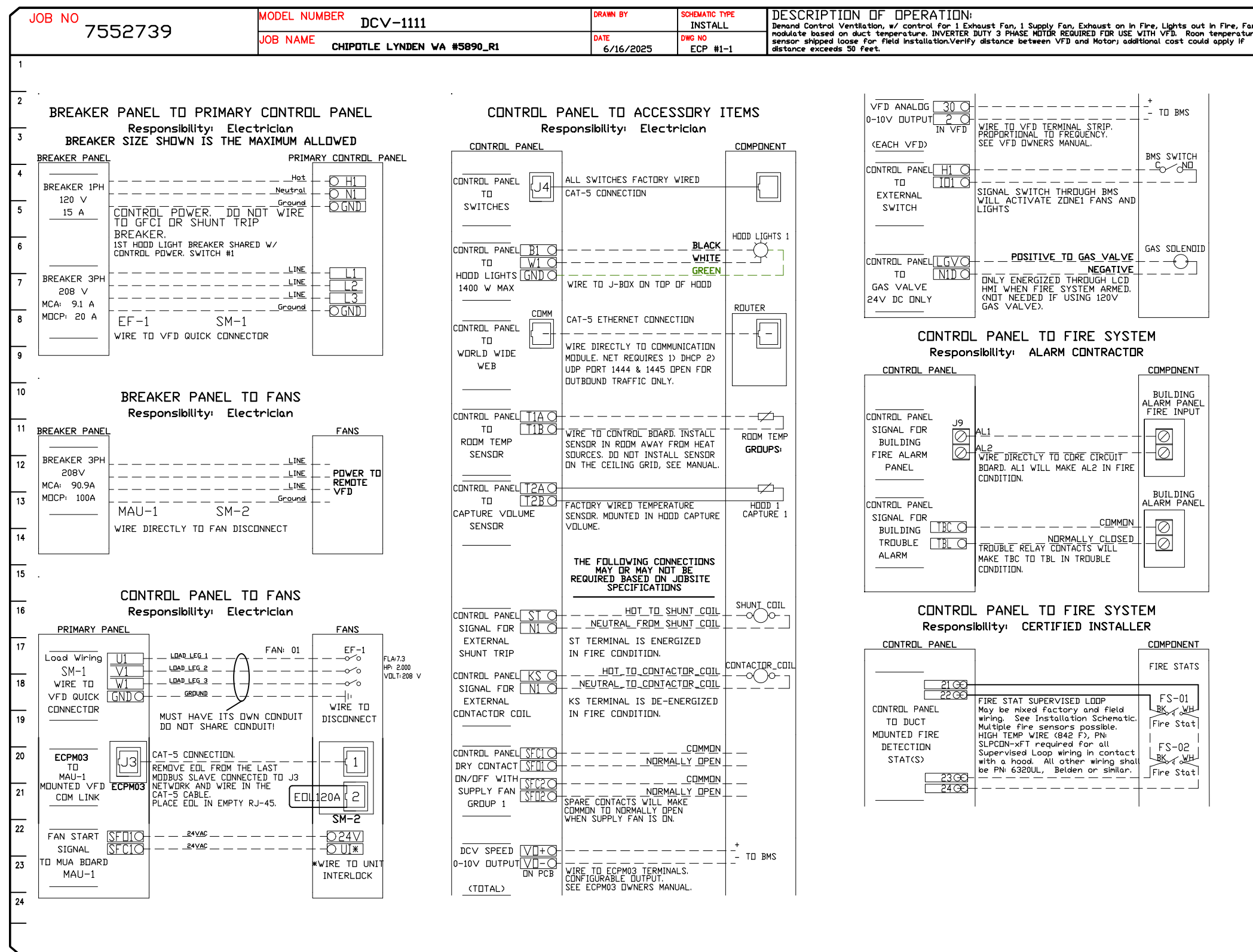


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amps	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Status	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Pana Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Pana Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



**REVISIONS**

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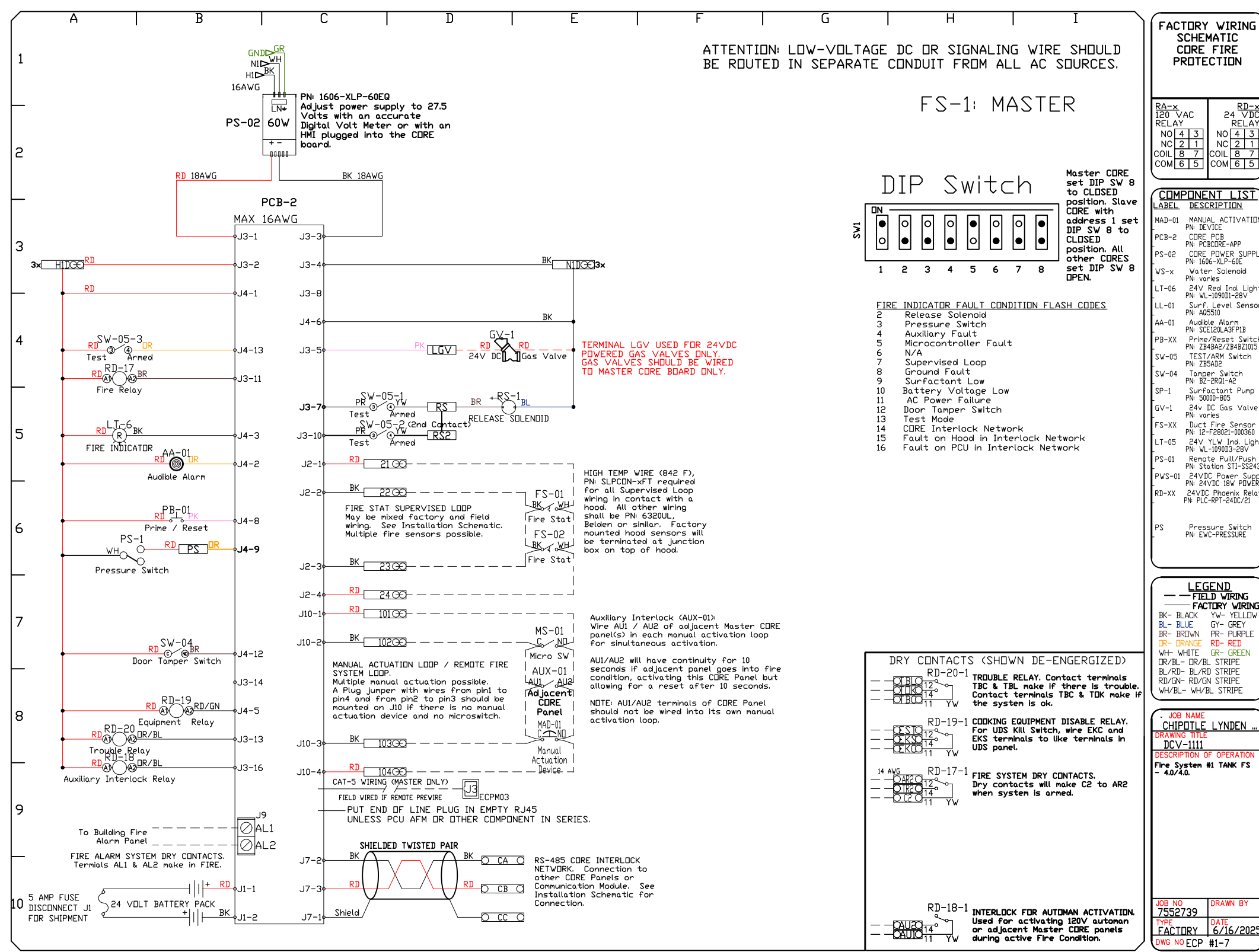
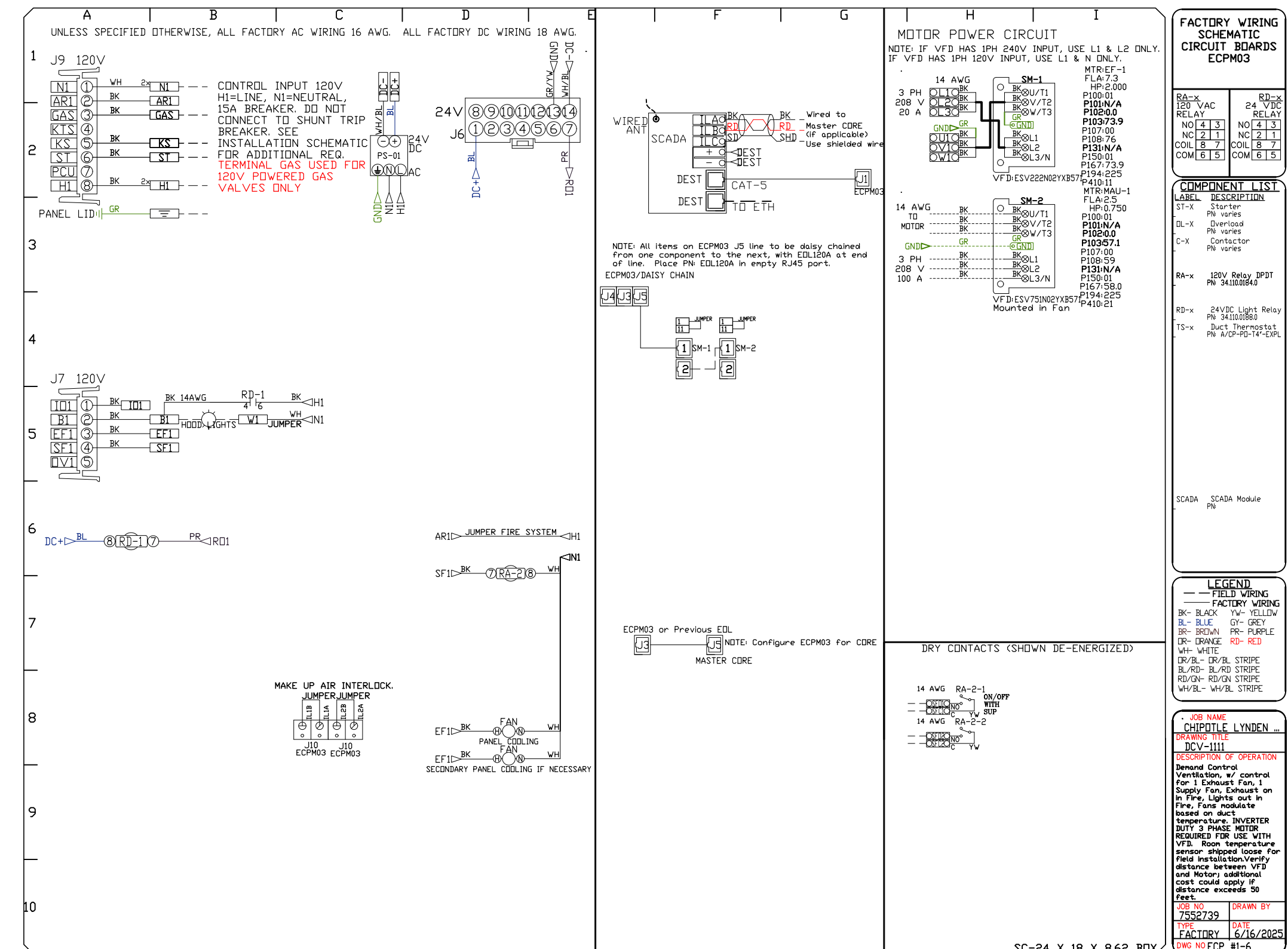
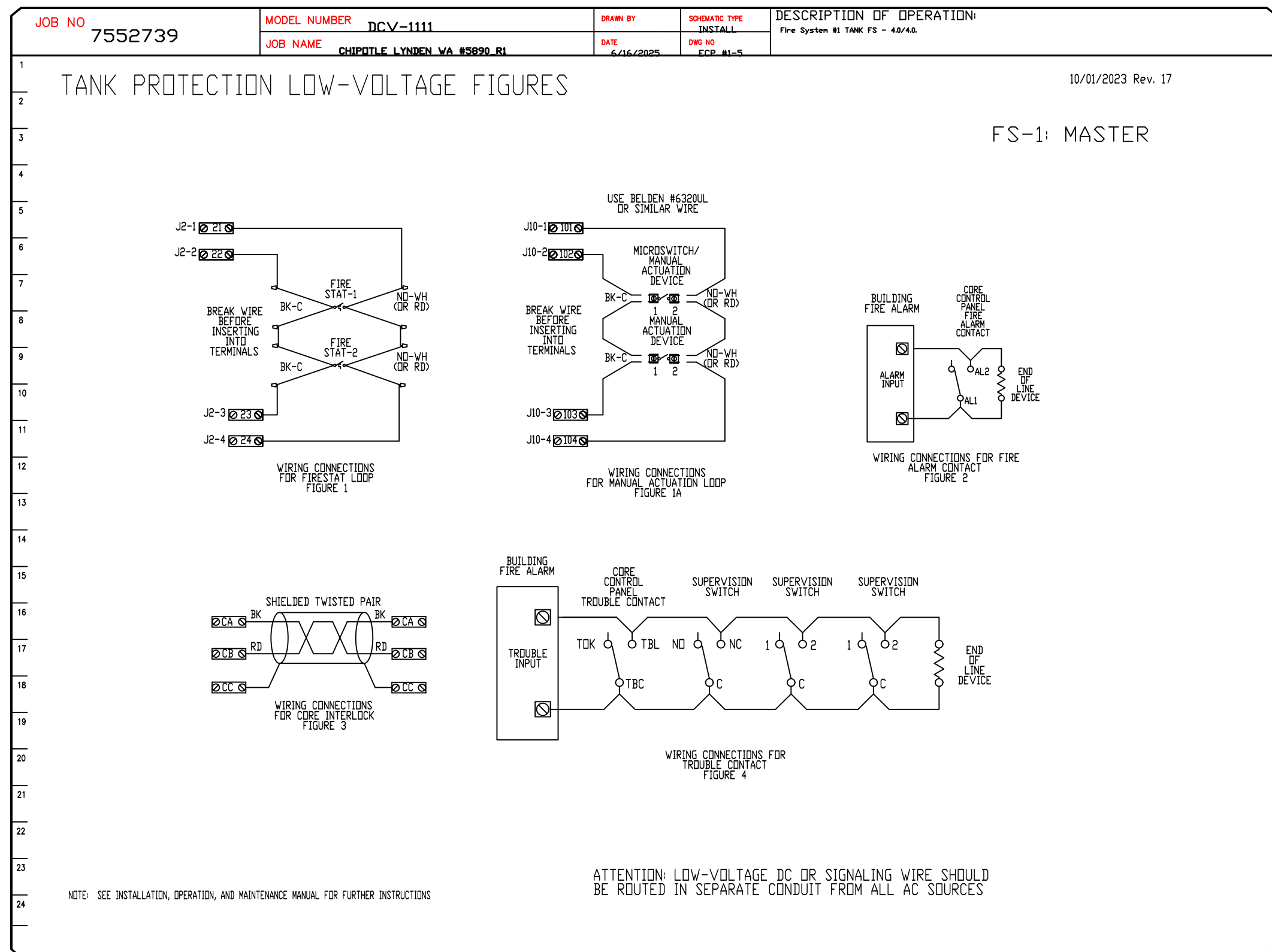
**CAPTIVE**

Highwoods Group  
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 975 - 0420 FAX: 9198750577 EMAIL: reg4@captiveware.com

CHIPOTLE LYNDEN WA #5890\_R1  
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DATE: 6/16/2025  
DWG.#: 7552739  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
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SHEET NO. 10



**REVISIONS**

DESCRIPTION	DATE

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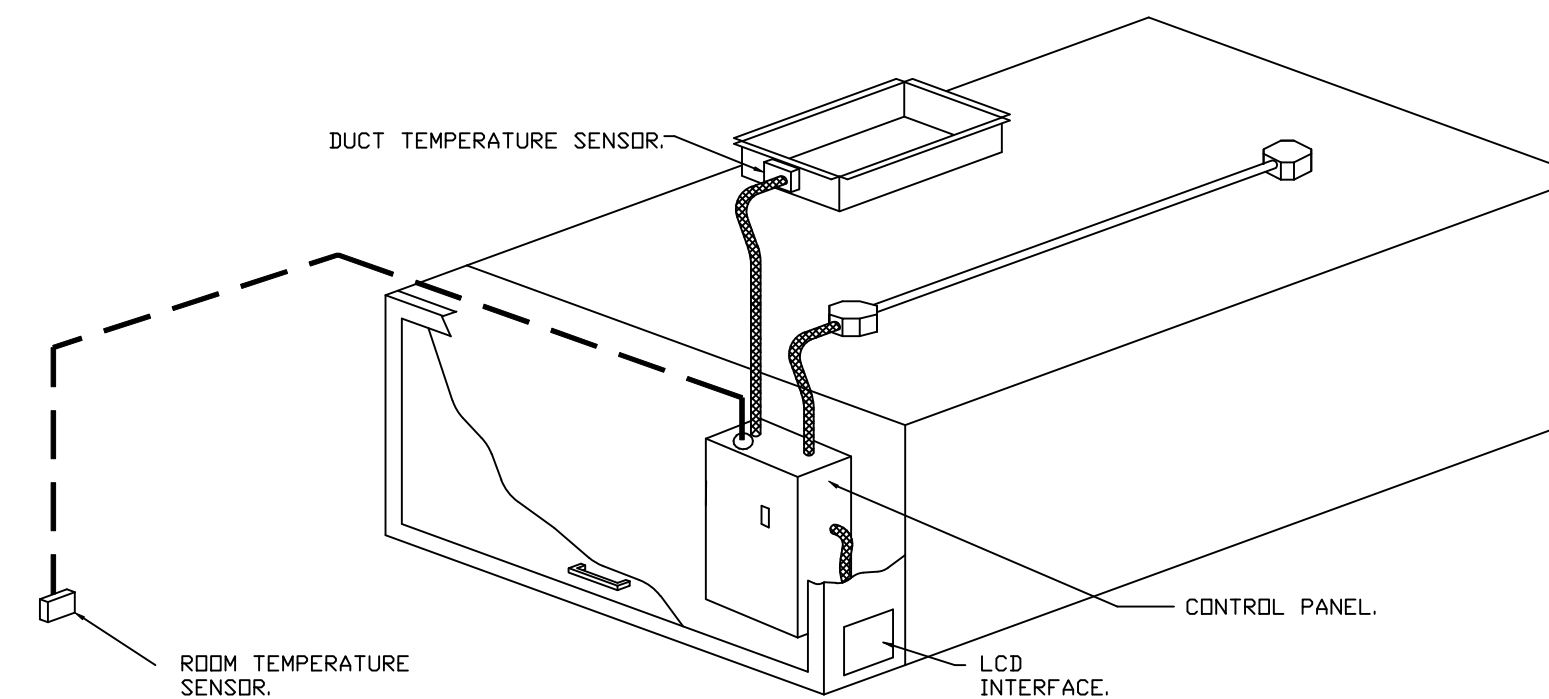
**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 11

**DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:**

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



**TYPICAL HOOD CONTROL PANEL INSTALLATION**

**SEQUENCE OF OPERATIONS:**

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
- **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
  - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
  - **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
  - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
  - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

**SYSTEM DESIGN VERIFICATION (SDV)**

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

**REVISIONS**

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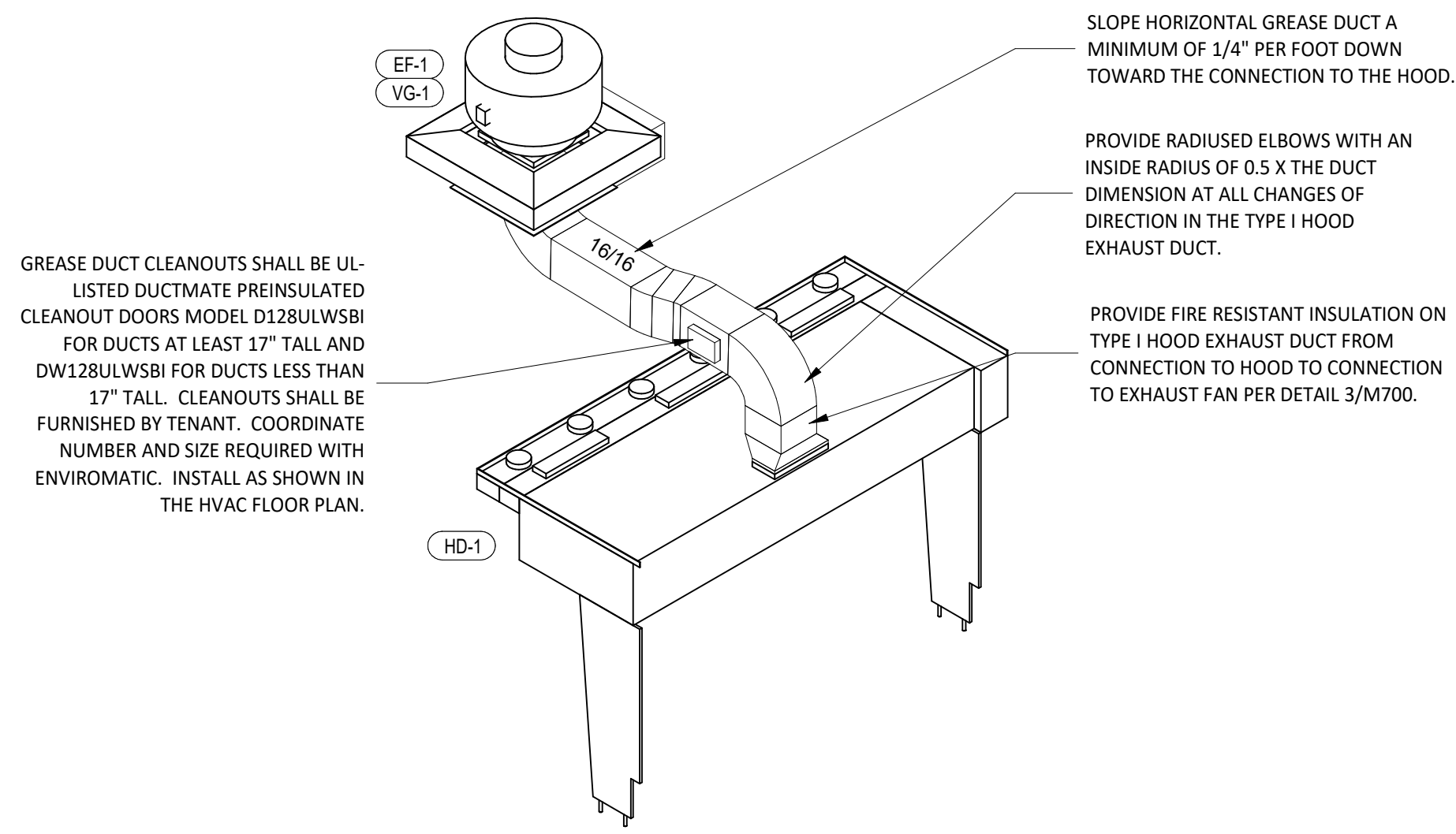
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**DRAWN BY:** JMB-40

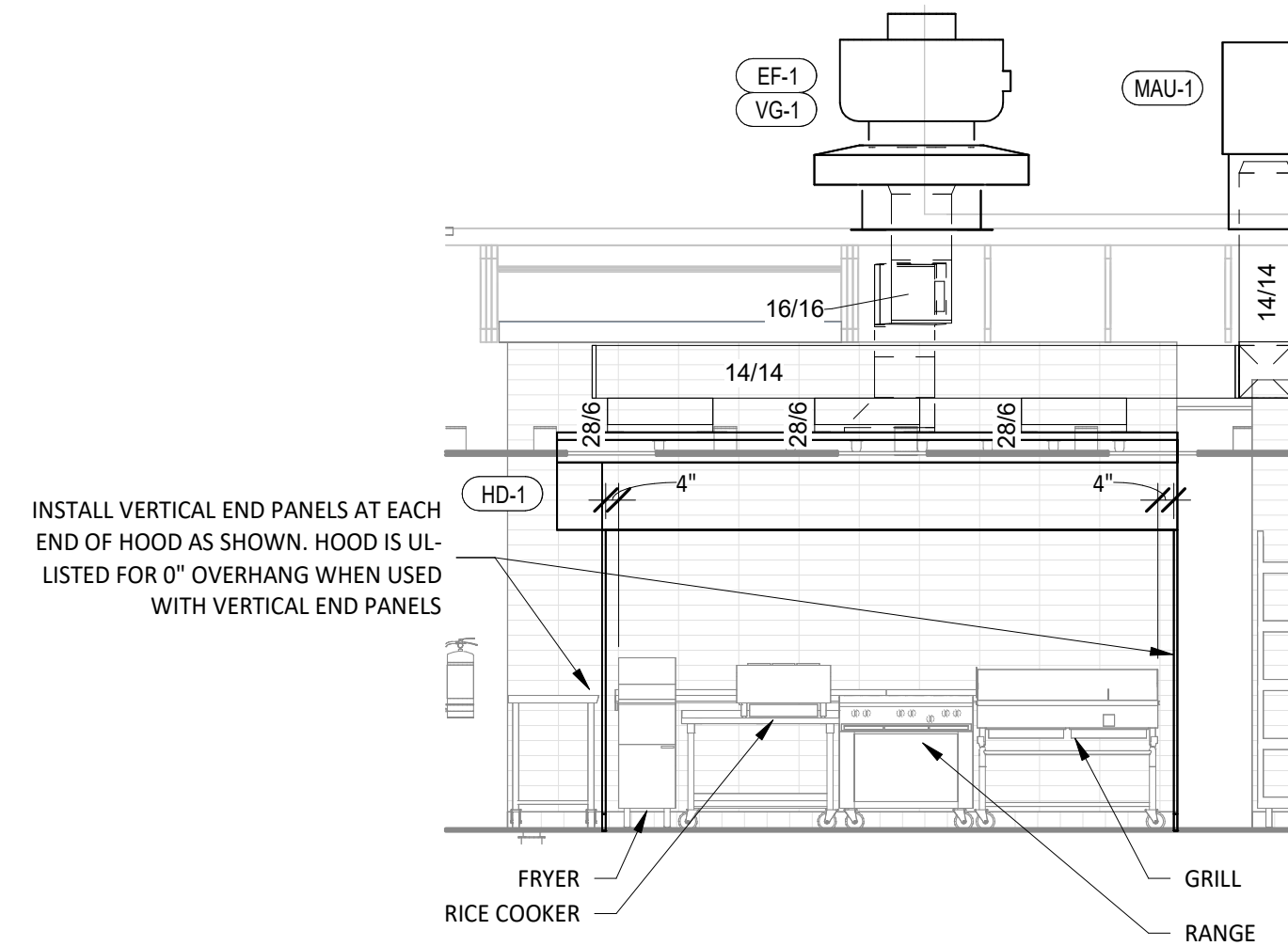
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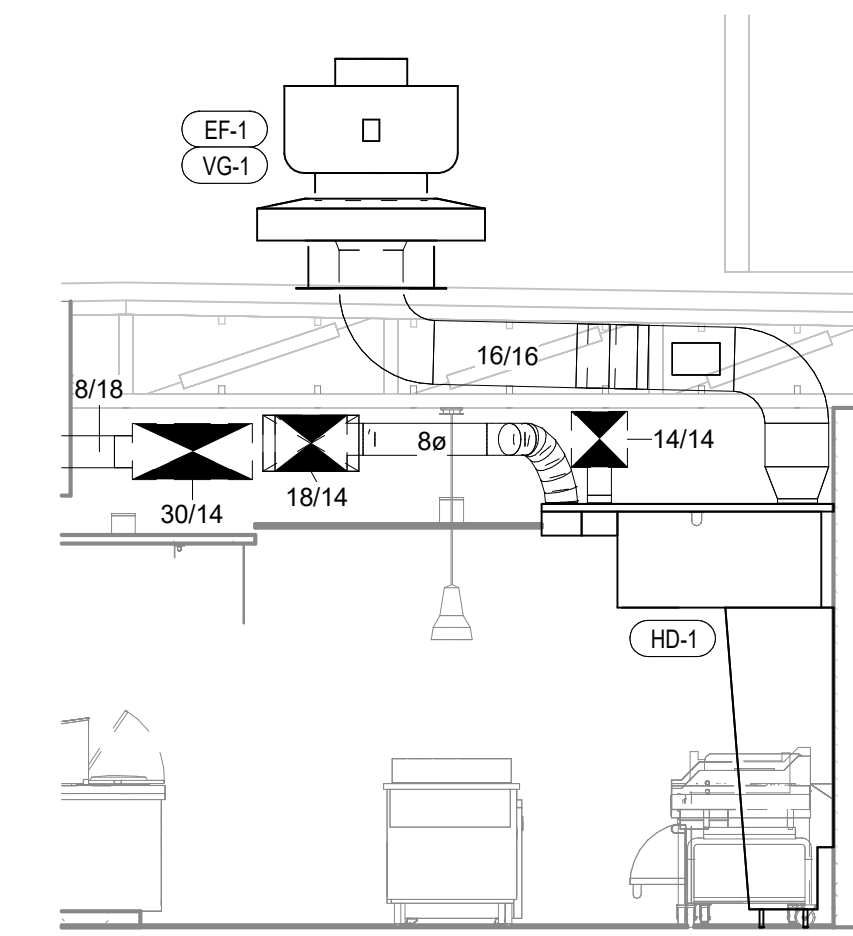
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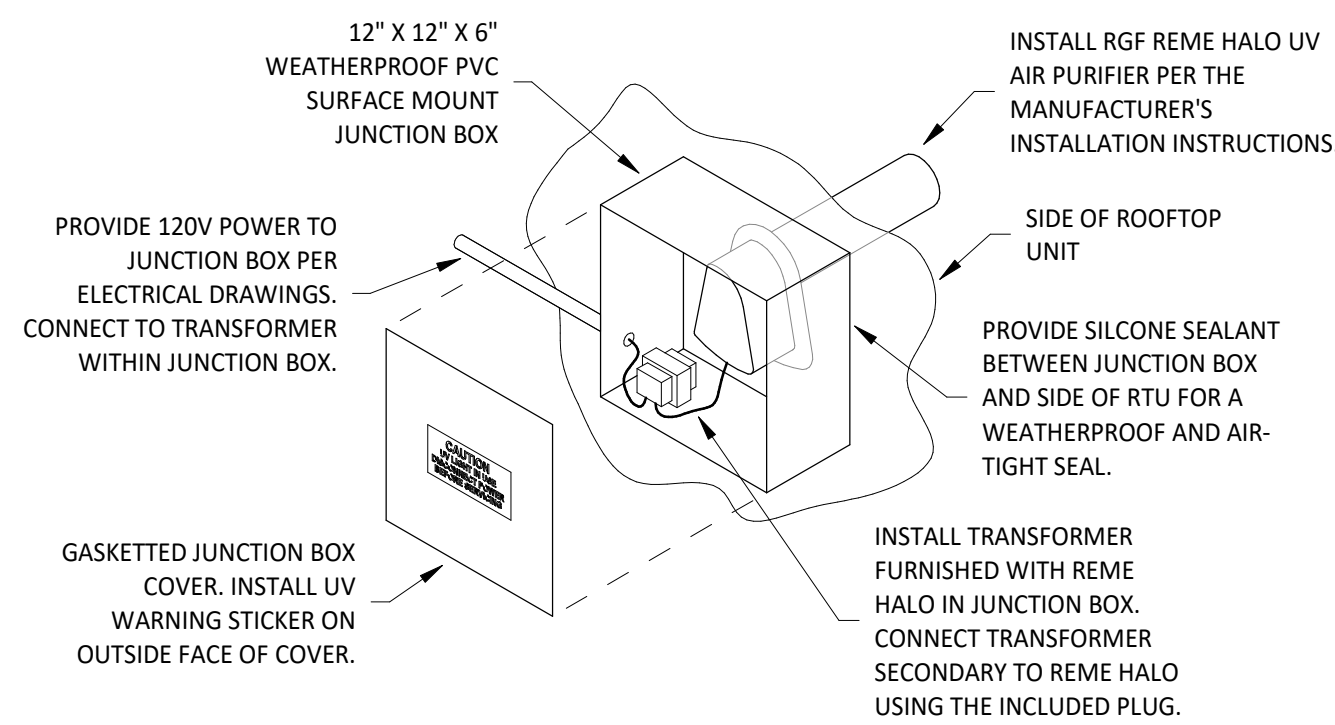
10  
M700  
N.T.S.  
**HOOD EXHAUST ISOMETRIC**



9  
M700  
1/4" = 1'-0"  
**HOOD ELEVATION**

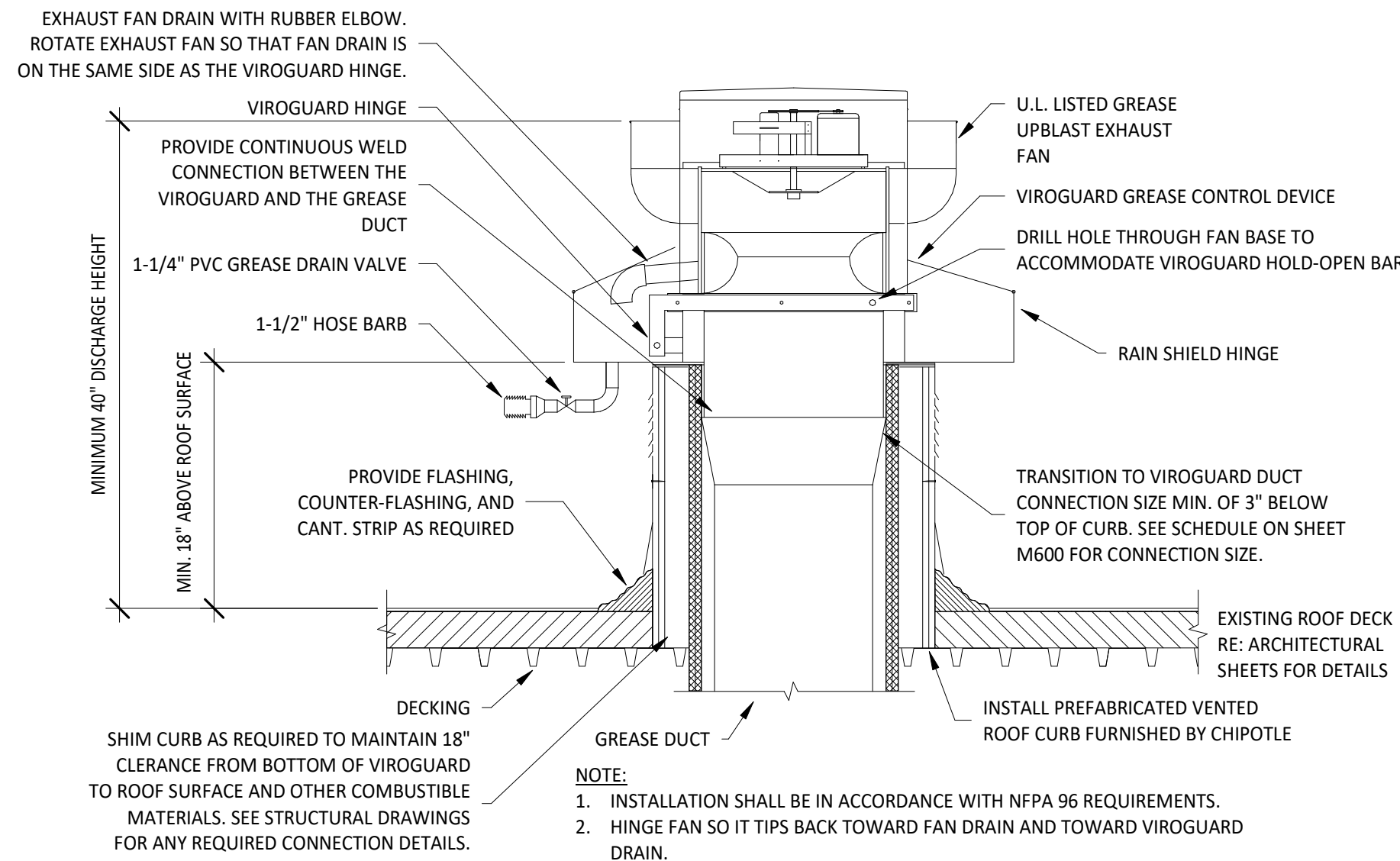


7  
M700  
1/4" = 1'-0"  
**DUCT SECTION AT HOOD**

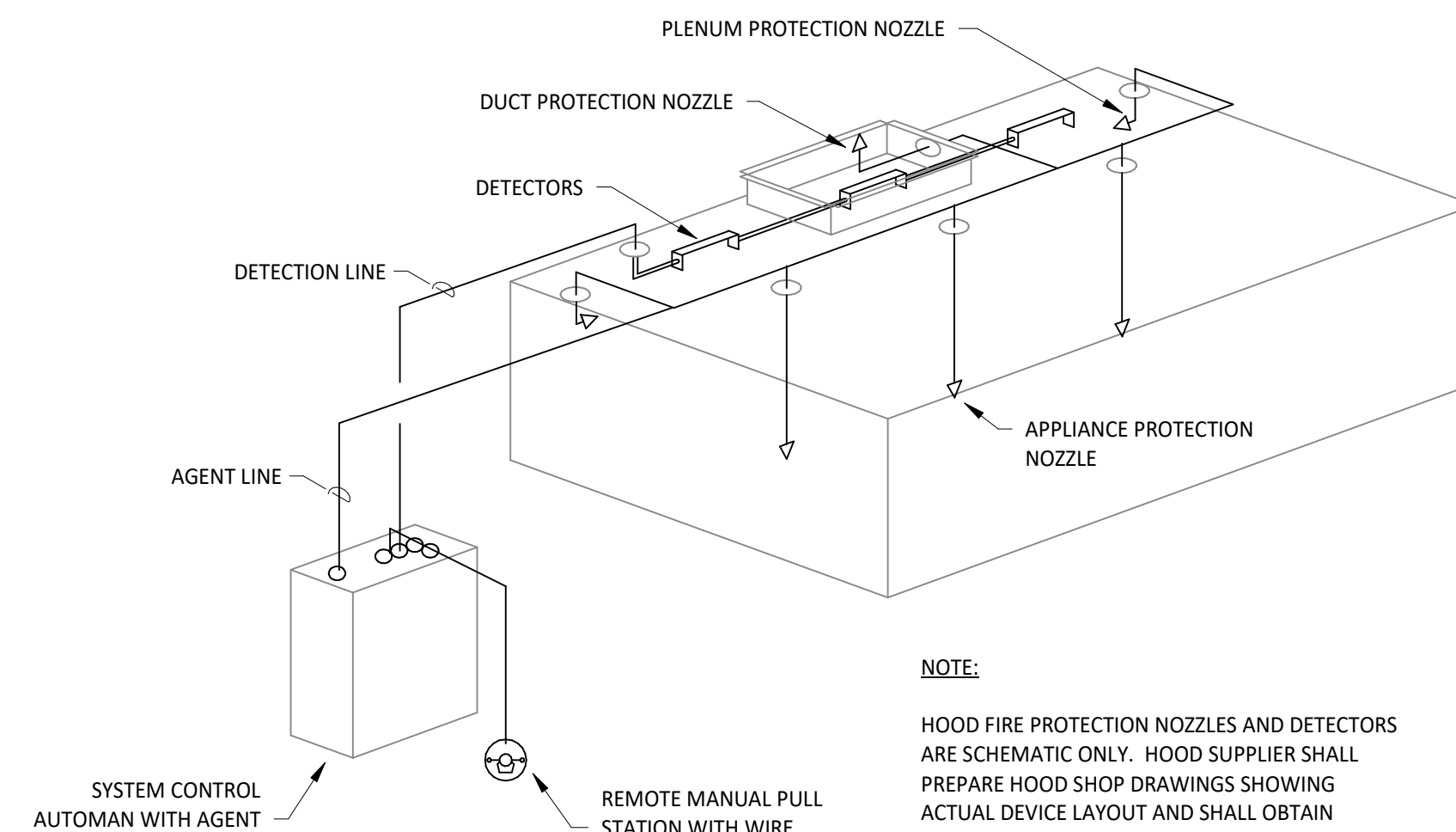


**INSTALLATION LOCATION**  
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL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

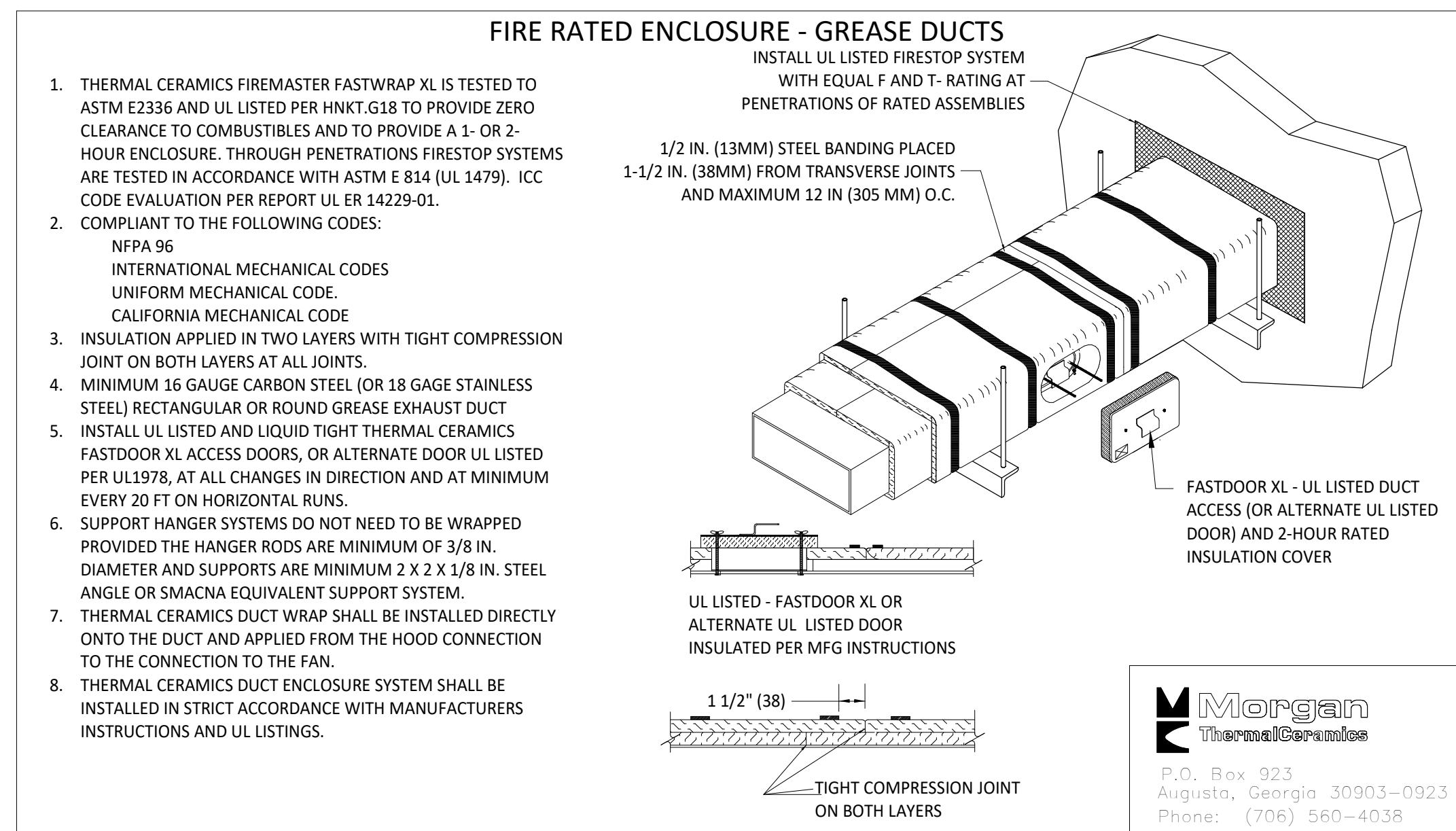
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N.T.S.  
**UV AIR PURIFIER INSTALLATION**



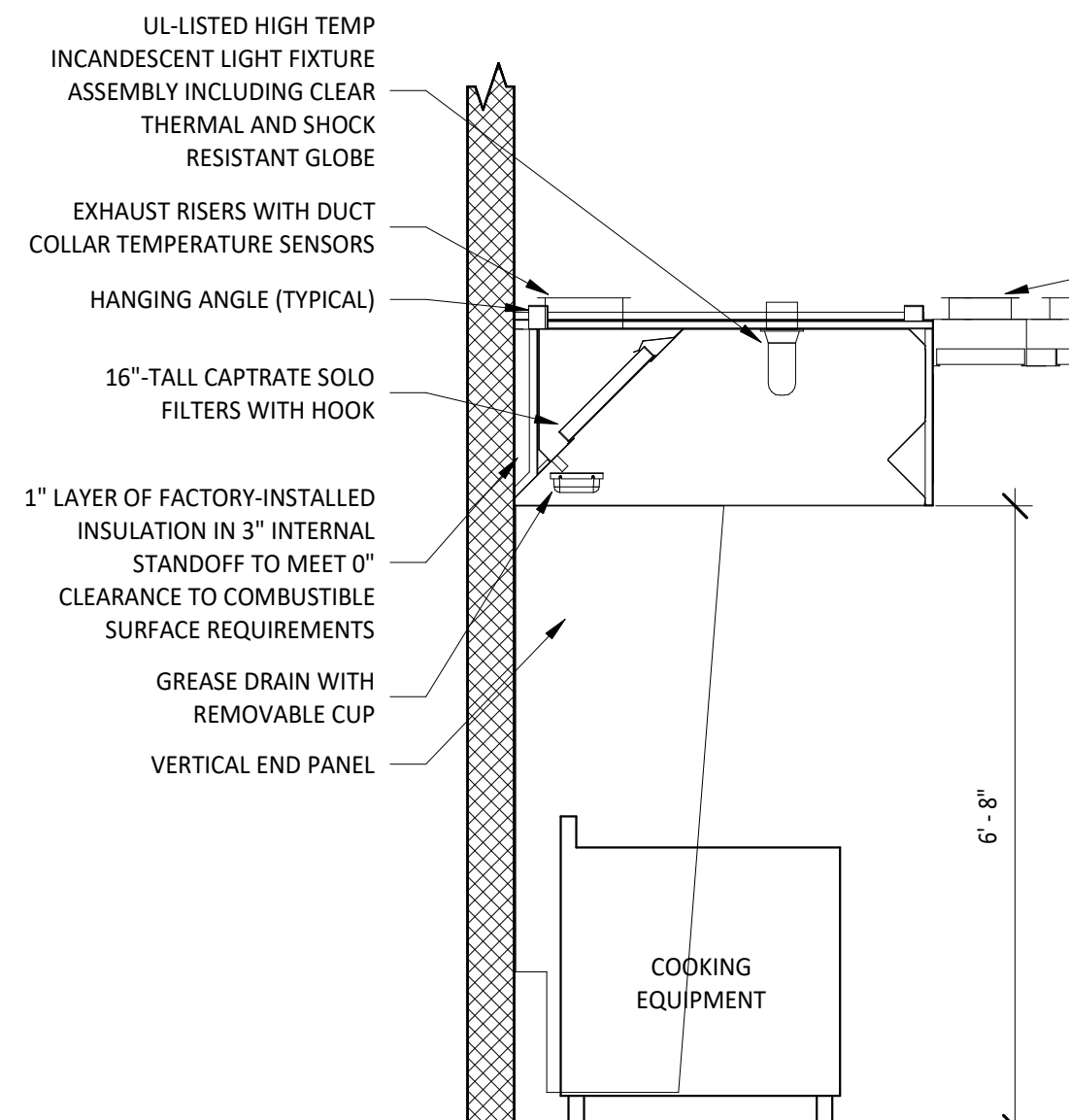
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N.T.S.  
**GREASE EXHAUST FAN**



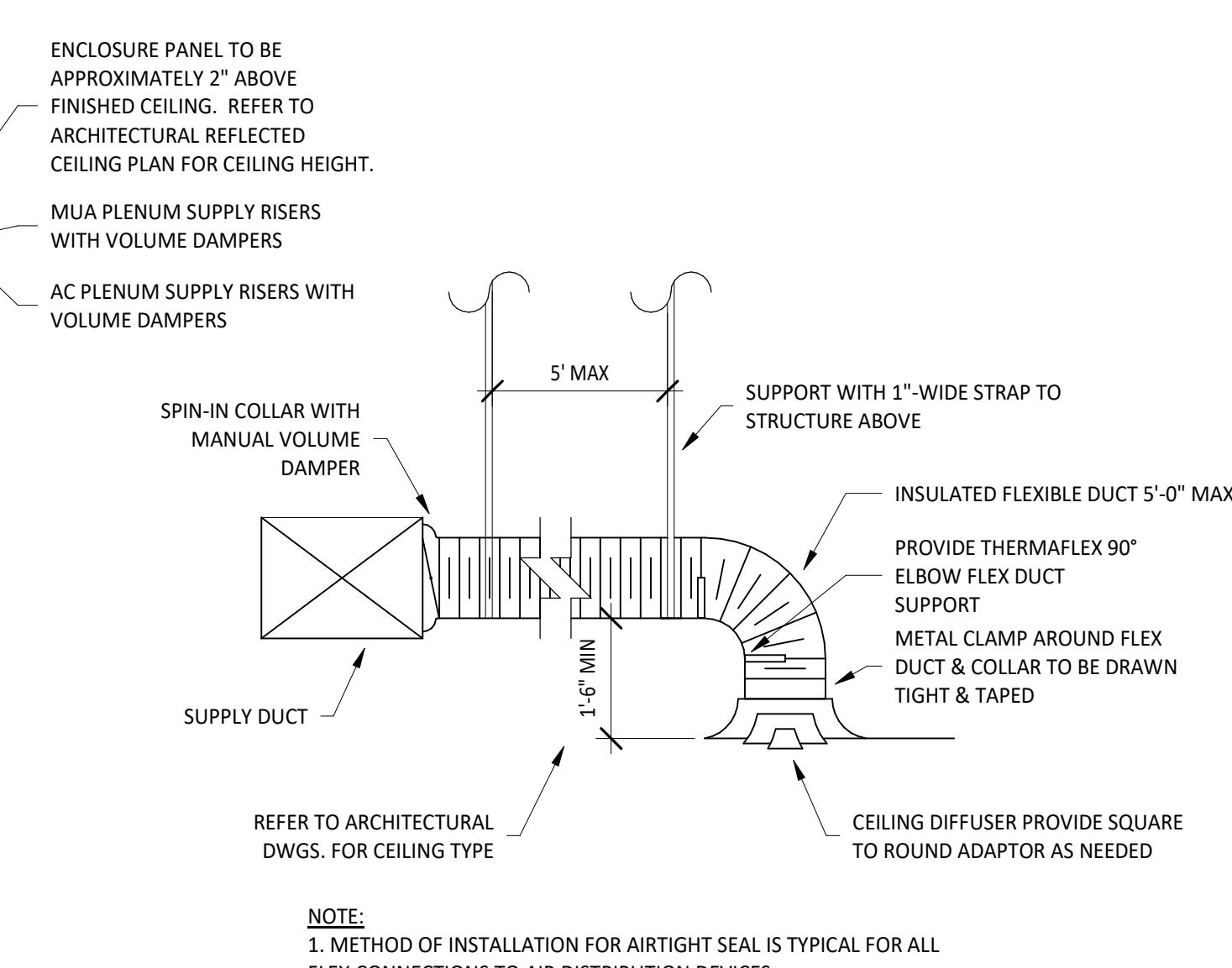
4  
M700  
N.T.S.  
**FIRE SUPPRESSION SYSTEM SCHEMATIC**



3  
M700  
N.T.S.  
**FIREMASTER DUCT WRAP - UL HNKT-G18**



2  
M700  
N.T.S.  
**HOOD SECTION VIEW**



1  
M700  
N.T.S.  
**DIFFUSER CONNECTION**

FOR CONSTRUCTION

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STORE NO.: 5890  
LYNDEN  
8083 GUIDE MERIDIAN RD  
LYNDEN, WA 98264

Issue Record:  
06/06/2025 PERMIT SET  
08/29/2025 FOR CONSTRUCTION

Revisions:

Drawn: MKT  
Checked: RTJ

Project No:  
2502013

Contents:

HVAC DETAILS

M700