

**HVAC LEGEND:**

WD-20 600 CFM	←	DIFFUSER DESIGNATION DIFFUSER C.F.M.
		CD CEILING DIFFUSER W/ C.F.M. - 4 WAY
		CD PERFORATED CEILING DIFFUSER
		CD CEILING DIFFUSER W/ C.F.M. - 3 WAY
		CD CEILING DIFFUSER W/ C.F.M. - 2 WAY
		RG RETURN DIFFUSER - SUSP. CEILING
		EG EXHAUST GRILLE
		PRV POWER ROOF VENT
		ECH ELECTRIC CEILING HEATER
		WD - WALL OR BULKHEAD SUPPLY GRILLE - LINEAR
		TG - TRANSFER GRILL
		SH - SENSOR HUMIDITY
		ST - SENSOR TEMPERATURE

- GENERAL NOTES:**
1. VERIFY ALLOWABLE FLEX DUCT LENGTHS WITH LOCAL CODES AND MODIFY ACCORDINGLY. ATTACH FLEXIBLE AIR CONNECTOR TO RIGID DUCT W/STEEL DRAW BANDS N-ONLY. CLASS 1 FLEXIBLE AIR CONNECTOR PER U.L.181 - MAX LENGTH 8'-0". PROVIDE SUPPORT AT 4'-0" O.C.
  2. VENTING OF ANY COMBUSTIBLE BY-PRODUCTS IS PROHIBITED WITHIN 10 FEET OF ROOF TOP UNITS. VERIFY WITH LOCAL BUILDING INSPECTOR.
  3. DIFFUSERS AND RETURN GRILLES IN BLACK ACT TO BE BLACK, ALL OTHERS TO BE WHITE.

- RECOMMENDED HVAC SET POINTS:**
1. DINING HEATING 70°, COOLING 72°
  2. KITCHEN HEATING 68°, COOLING 74°



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DATE	REVISION
04-28-2023	FOR CONSTRUCTION
05-03-2023	△ BULLETIN #1
07-13-2023	△ BULLETIN #3
08-03-2023	△ BULLETIN #4

PROPOSED RENOVATION FOR:

1180 WEST SUPERIOR STREET  
WAYLAND, MI 49348

ARCHITECTURE  
PLANNING  
ENGINEERING

6650 CROSSING DRIVE, S.E.  
GRAND RAPIDS, MI 49508  
(616) 554-1222  
FAX (616) 554-1225

DATE APRIL 28, 2023	PROJECT No. 22-38
	SHEET No. M-1

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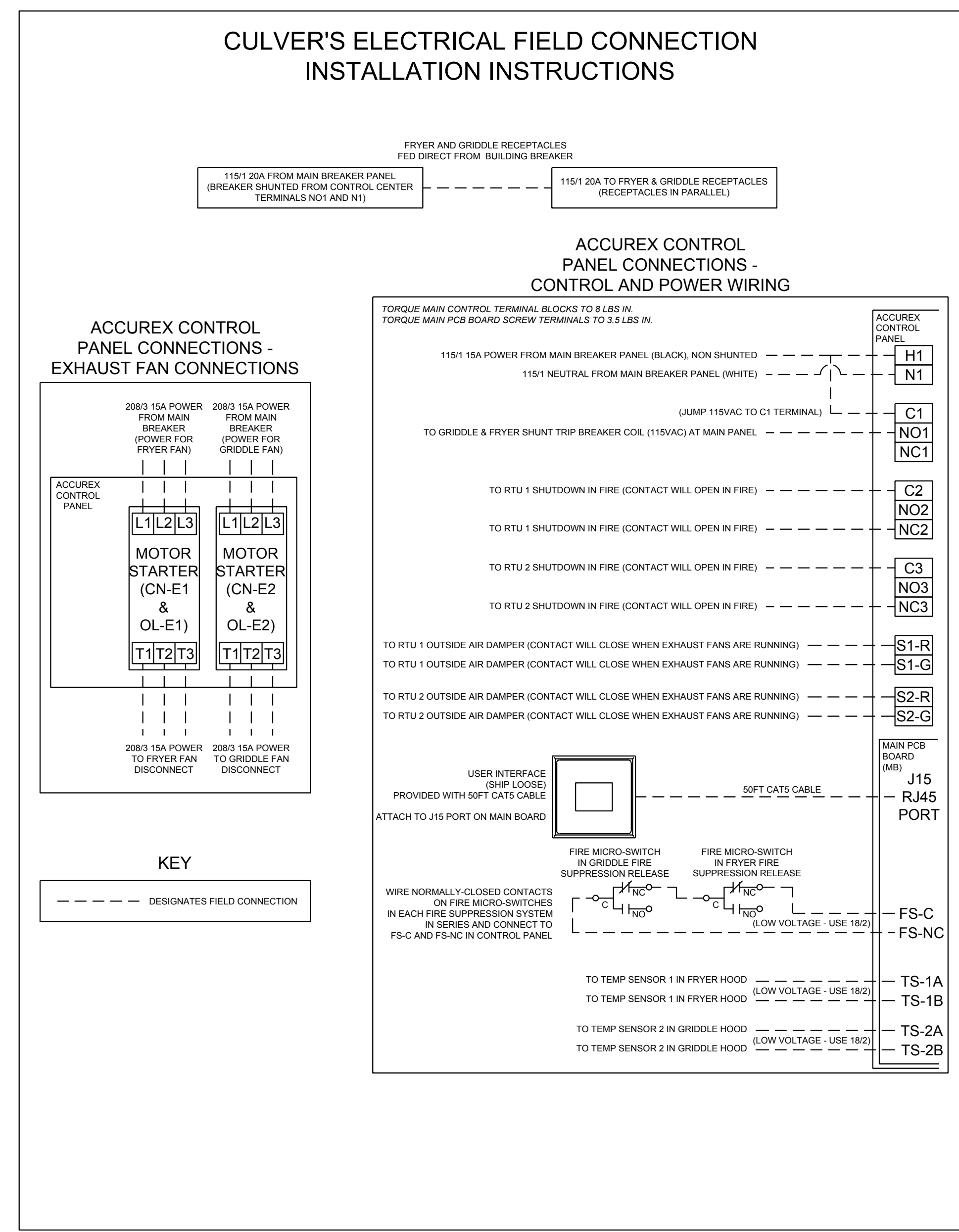


**SUBMITTAL**

Please return one approved print to Greenheck including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

APPROVED AS SUBMITTED  
 APPROVED AS NOTED  
 REJECTED - REVISE AND RESUBMIT

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



### CULVER'S INSTALLATION AND OPERATION GUIDE

*Accurex Control Panel, Fans, Appliance Receptacles*

**Mechanical Scope of Work**

- 1) Mechanical Contractor to mount Accurex Control Panel (Model XKC, 18" W x 20" H x 6" D) in specified location above drop ceiling.
- 2) Assuming all electrical has been completed by Electrical Contractor, Mechanical Contractor to start up fans by pressing "Fans" button on user interface. Verify power to exhaust fans.

**Electrical Scope of Work**

- 1) Electrical Contractor shall provide one 115VAC 20A circuit with shunt trip breaker (115VAC trip coil) for fryer and griddle receptacles. This circuit will have two receptacles, one for the fryer and one for the griddle. Circuit to be powered directly from circuit breaker.
- 2) Electrical Contractor to install Accurex user interface on wall (user interface provided by Accurex, recess into wall). Connect user interface back to Accurex control panel using factory-provided CAT5 cable (connect to J15 port on main board in Accurex control panel).
- 3) Electrical Contractor to run a separate 115VAC 15A circuit (from non-shunted breaker) to Accurex control panel terminal blocks H1 and N1 to power controls.
- 4) Electrical Contractor to run two 208/60/3 15A circuits from main breaker panel to each motor starter in the Accurex control panel (L1, L2, L3). Run power from T1, T2, T3 on each motor starter in Accurex control panel to kitchen exhaust fan disconnects.
- 5) Electrical Contractor to connect jumper wire from terminal block H1 to terminal block C1 in Accurex control panel, and then run wires from NO1 and N1 in Accurex control panel back to 115VAC shunt-trip breaker coil for fryer and griddle receptacles.
- 6) Electrical Contractor to wire a normally-closed contact off of a micro-switch in each fire suppression system release (one FS for fryer hood, and one FS for griddle hood) in series, and tie this series circuit loop back to FS-C and FS-NC on the main control board (MB) in the Accurex control panel.
- 7) Electrical Contractor to wire RTU 1 & 2 damper control to Accurex control panel terminal blocks S1-R / S1 - G and S2-R / S2-G as indicated on wiring diagram.
- 8) Electrical Contractor to wire RTU 1 & 2 control (8 amp max) circuits to Accurex control panel terminal blocks C2 and NC2 for RTU1 and C3 and NC3 for RTU 2 to shut down units in a fire.
- 9) Electrical Contractor to wire temp sensor in fryer hood collar back to Accurex control panel and land on TS-1A / TS-1B on main PCB board (use 18 to 22ga plenum rated cable)
- 10) Electrical Contractor to wire temp sensor in griddle hood collar back to Accurex control panel and land on TS-2A / TS-2B on main PCB board (use 18 to 22ga plenum rated cable)

**Sequence of Operation**

- 1) Make sure fryer and griddle receptacles are receiving power (breaker feeding appliance outlets is on).
- 2) Make sure RTU 1 & RTU 2 are both receiving power (breaker feeding RTUs are on and RTU disconnects are on).
- 3) Turn fans on via "Fans" button on user interface. Both fryer and griddle fans should turn on, and RTU 1 & 2 outside air dampers should open/adjust to bring in design OA.
- 4) Before fire system agent tanks are installed, manually trigger fire system while fan switch is on. This should accomplish the following:
  - Display on user interface should stated "FIRE DETECTED"
  - Shunt trip breaker will trip causing a loss of power to fryer and griddle receptacles
  - Gas valve will close shutting gas off to the fryer and griddle
  - Exhaust fans will remain on
  - RTU 1 & 2 will shut down
- 5) Put fire system in the "cocked" position and reset shunt trip breaker. Breakers feeding appliance outlets should be able to be reset manually, and RTU's power should be restored.
- 6) Press "Fans" button on the user interface to turn the fans off. This will shut down power to the fans. RTU outside air dampers will close. RTUs will remain operational providing 100% return air only.


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DATE	REVISION
04-28-2023	FOR CONSTRUCTION

PROPOSED RENOVATION FOR:



1180 WEST SUPERIOR STREET  
WAYLAND, MI 49348



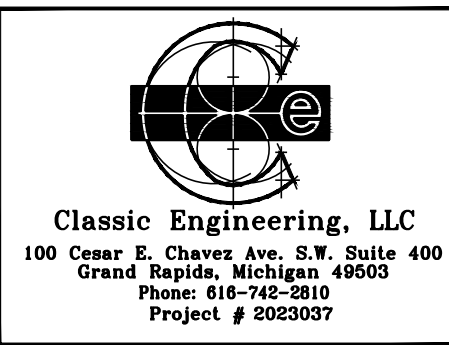
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DATE ARPIL 28, 2023	PROJECT No. 22-38
	SHEET No. M-6

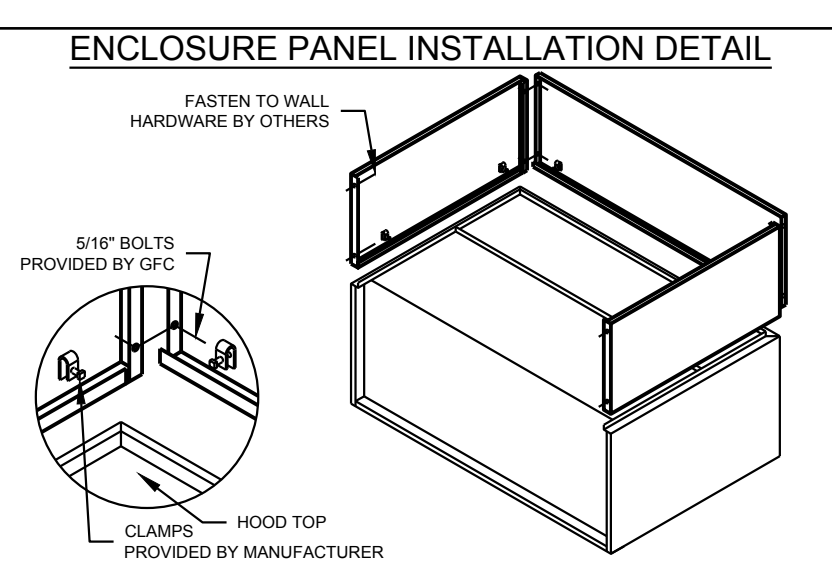
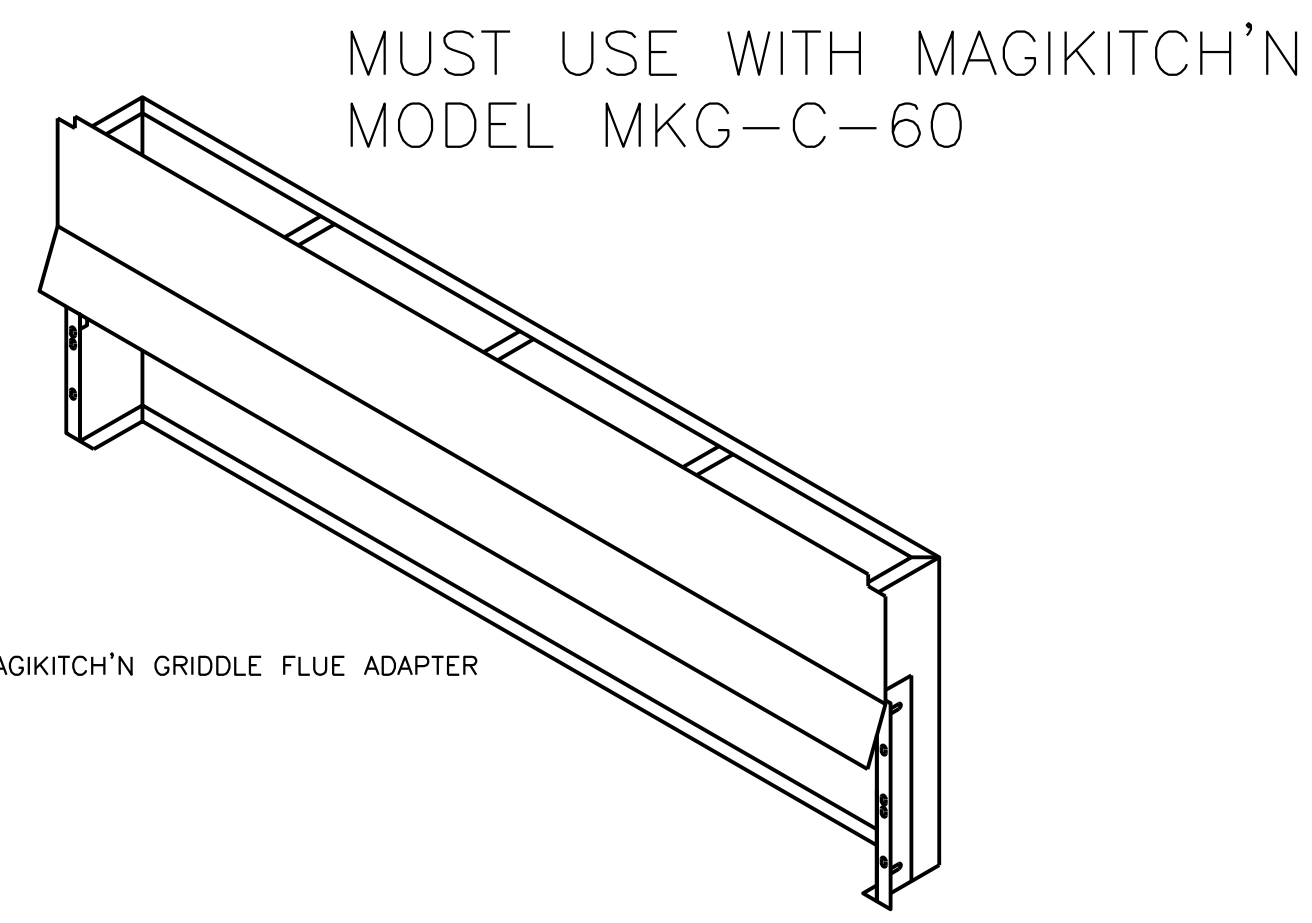
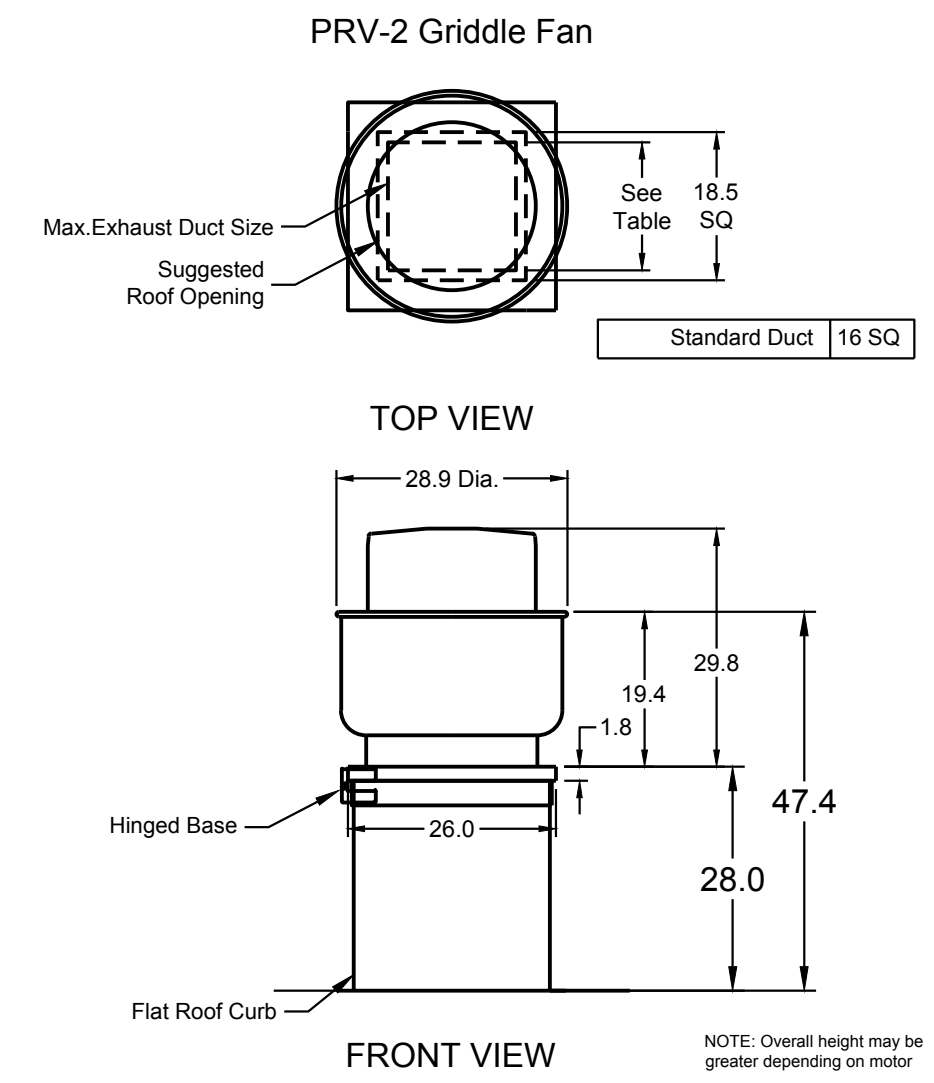






**EQUIPMENT SCHEDULE**

TYPE 1 KITCHEN HOOD										MARK: ITEM#49		
HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	HOOD DIMENSIONS			GREASE CUP OR DRAIN	HOOD TEMP. RATING	TOTAL WEIGHT	SECTION LOCATION	MARK: ITEM#49			
		SECTION LENGTH	WIDTH	HEIGHT					MARK: ITEM#49	MARK: ITEM#49		
1	SINGLE WALL EXHAUST ONLY LOW PROXIMITY	64 IN.	TOP 23 IN. FRONT 12 IN. BOT 8 IN. BACK 36 IN.	RIGHT	600 DEG F	136.0 LBS.	SINGLE					
ILLUMINATION DETAILS										GREASE FILTRATION DETAILS		
HOOD NO.	FIXTURE TYPE	BULB / LAMP INFO	QTY	INTENSITY FT CANDLES	TYPE / MODEL MATERIAL	QTY	LENGTH	HEIGHT				
1	NONE	NA	0 / 0 IN.	CC	GREASE GRABBER STAINLESS STEEL	4	16 IN.	16 IN.				
EXHAUST PLENUM COLLARS										VELOCITY (FT/MIN)		
HOOD SECTION #	COLLAR #	DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	VOLUME (CFM)	S.P. (IN. WC)	VELOCITY (FT/MIN)				
1	1.1	32	12	12	NA	1500	1.918	1500				
TOTAL EXHAUST CFM - SECTION 1						1500		=		281 CFM / FT		
OPTIONS AND ACCESSORIES												
430 STAINLESS STEEL WHERE EXPOSED												
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R26625												
BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE												
26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED												
FACTORY MOUNTED EXHAUST COLLAR(S)												
THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM												
INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY												
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH												
EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE												
EQUIPMENT SPECIFIC S/S FLUE ADAPTER												
SPECIAL DESIGN REQUESTS												
SDR #K1100145 - FLUE BYPASS HOOD												
FIRE SUPPRESSION SYSTEM												
MARK: FS FOR GRILL HOOD												
MANUFACTURER / MODEL	SUPPRESSANT TYPE	FLOW POINTS	SUPPLY LINE	DETECTION	MOUNTING							
ANSUL R102	WET CHEMICAL	8 UTILIZED 11 AVAILABLE	CONTINUOUS	FUSIBLE LINK	RIGHT END REMOTE MOUNTED							
FULL INSTALLATION (INCLUDES PRE-PIPED HOODS) WITH DETECTION AND FACTORY COORDINATED INSTALL												
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED												
SUPPRESSION AGENT - INCLUDED - 3 GAL. - (113 TANK(S))												
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, SUPPLIED UP TO 2"												
REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS												
METAL BLOW-OFF CAPS - INCLUDED												
FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED												
360°F. FUSIBLE LINK OR AS TESTED AND INSTALLED BY LOCAL INSTALLER PER UL MANUAL												
FIRE SYSTEM PROTECTED HOOD(S) (UL-300) MARK NAME: SECTION#												
GRILL HOOD SECTION 1 - (LENGTH 64.0 IN.) - LOW PROXIMITY HOOD - GREASE GRABBER FILTRATION SYSTEM												
Belt Drive Upblast Centrifugal Roof Exhaust Fan												
MARK: PRV-2												
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (In)	V/C/P	Endc.	Motor	Winding	FLA
1	XRLUB-160XP-15	1500	2.337	2,411	1.29	171	1.5	208/6/0/3	CP	1725	1	6.6
OPTIONS AND ACCESSORIES												
UL/ULC 762 Listed - "Power Ventilators for Rest. Exh. Appliances"												
Switch: <b>NSF</b> 1 (PN:NTS0-3-20) Toggle. Shipped with unit												
Larger curb cap size - 26" Square												
Roof curb-Galv., GPF-26-G28, Under sized 1.5" Total												
Hinged Base (Attached)												
High Temp Curb Seal Rated for Continuous duty at 2000F (Attached)												
Clean-out Port												
Grease Trap with Drain Connection (PN 475538)												
Heat Baffle (Attached)												
Bearings with Grease Filings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)												

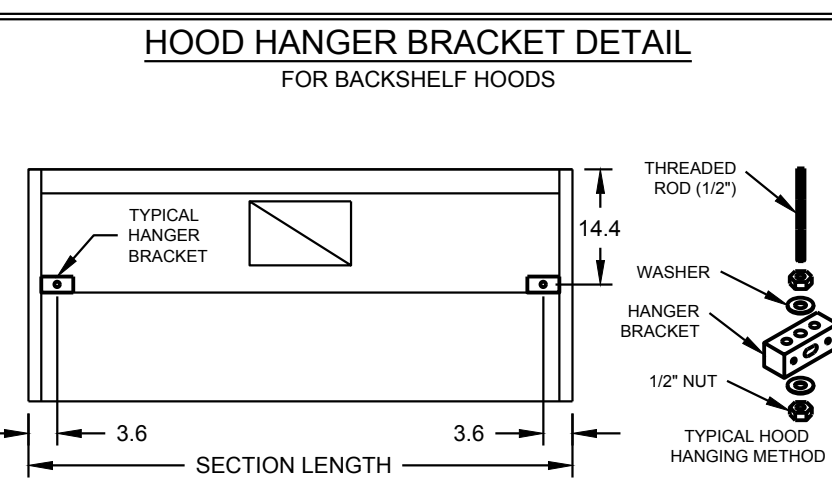


**HOOD HANGING HEIGHT FOR FIRE SYSTEMS**

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

RECOMMENDED HANGING HEIGHT = 60" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

OTHER HANGING HEIGHT = \_\_\_\_\_ FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.



**GENERAL DRAWING NOTES**

Verify building entry conditions or limitations for equipment access to space.

Verify type and height of finished ceiling and if hood(s) may extend above finished ceiling (if required).

Seismic installation and bracing of equipment is by others.

Greenheck will not accept liability for problems that result from sub-standard installation, including field electrical wiring that deviates from supplied diagrams, jobsite conditions (ductwork, fuel types and structural conditions) that GFC has not been notified of at the time of ordering. Or use of this equipment other than that for which it is designed.

It is the responsibility of the purchaser to hire qualified personnel for installation and start-up of all equipment. Installation and start-up information is shipped with all equipment via the Installation, Operation and Maintenance Manual (IOM), also included is a troubleshooting guide. Have all start-up info available prior to any warranty claims and/or factory technical support.

**VENTILATION SYSTEM NOTES**

Greenheck ventilators are designed in compliance with all national codes: NFPA # 96, national electric code, BOCA, uniform mechanical code, international mechanical code, and southern building conference. See national evolution report #436 for allowable values, and/or conditions of use concerning material presented in this document. Local codes may vary. It is the responsibility of the purchaser to submit drawings to local authorities.

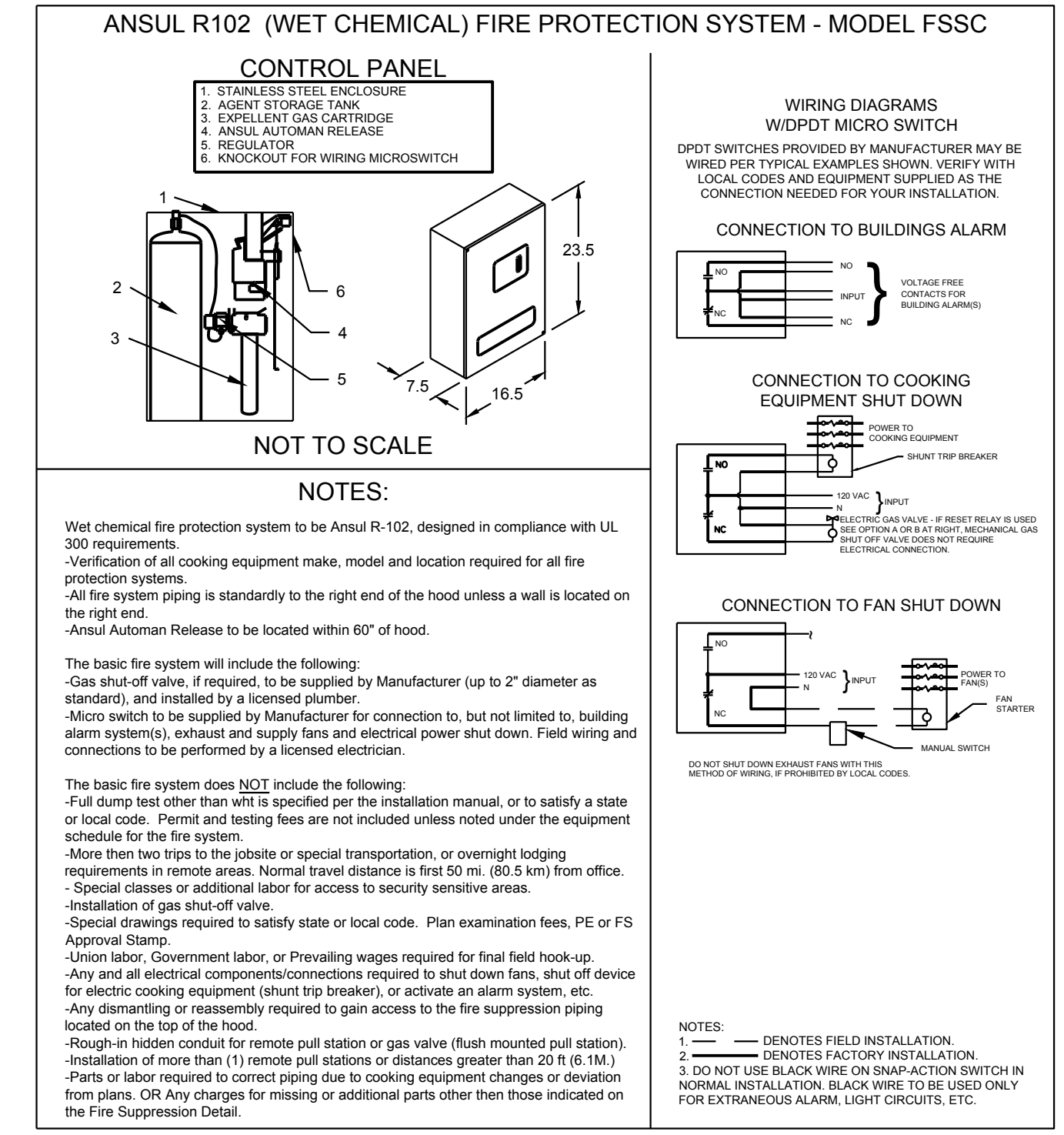
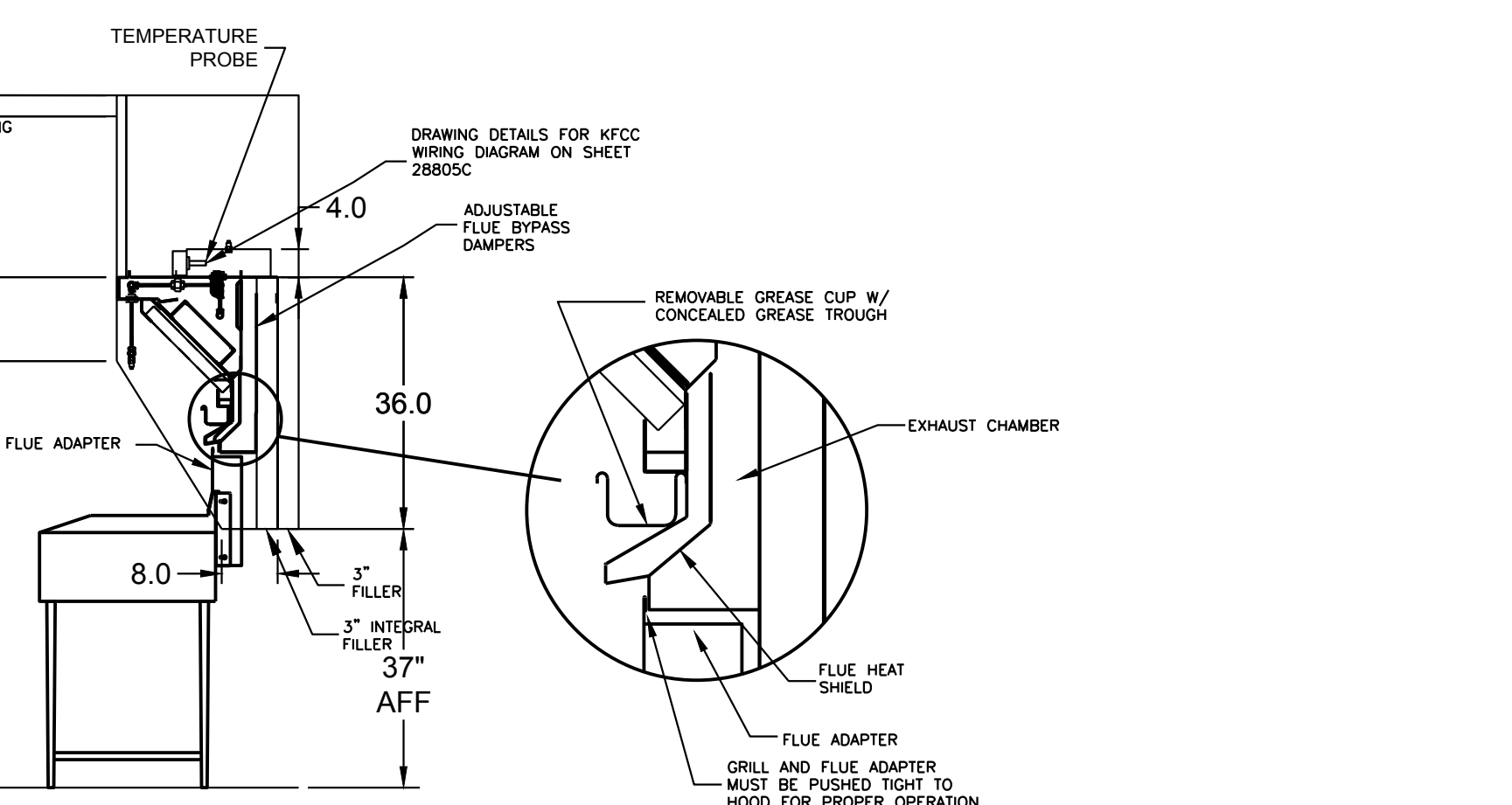
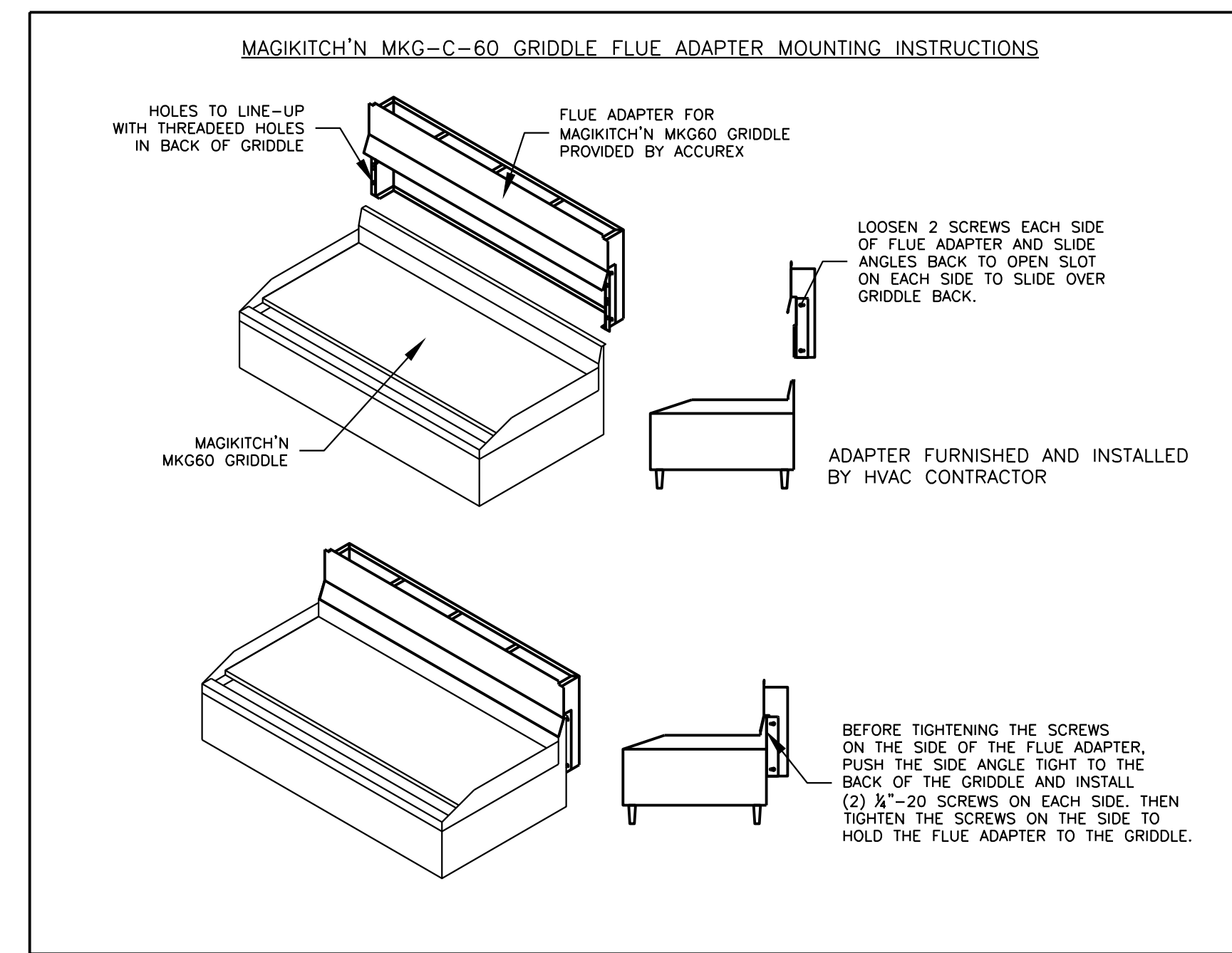
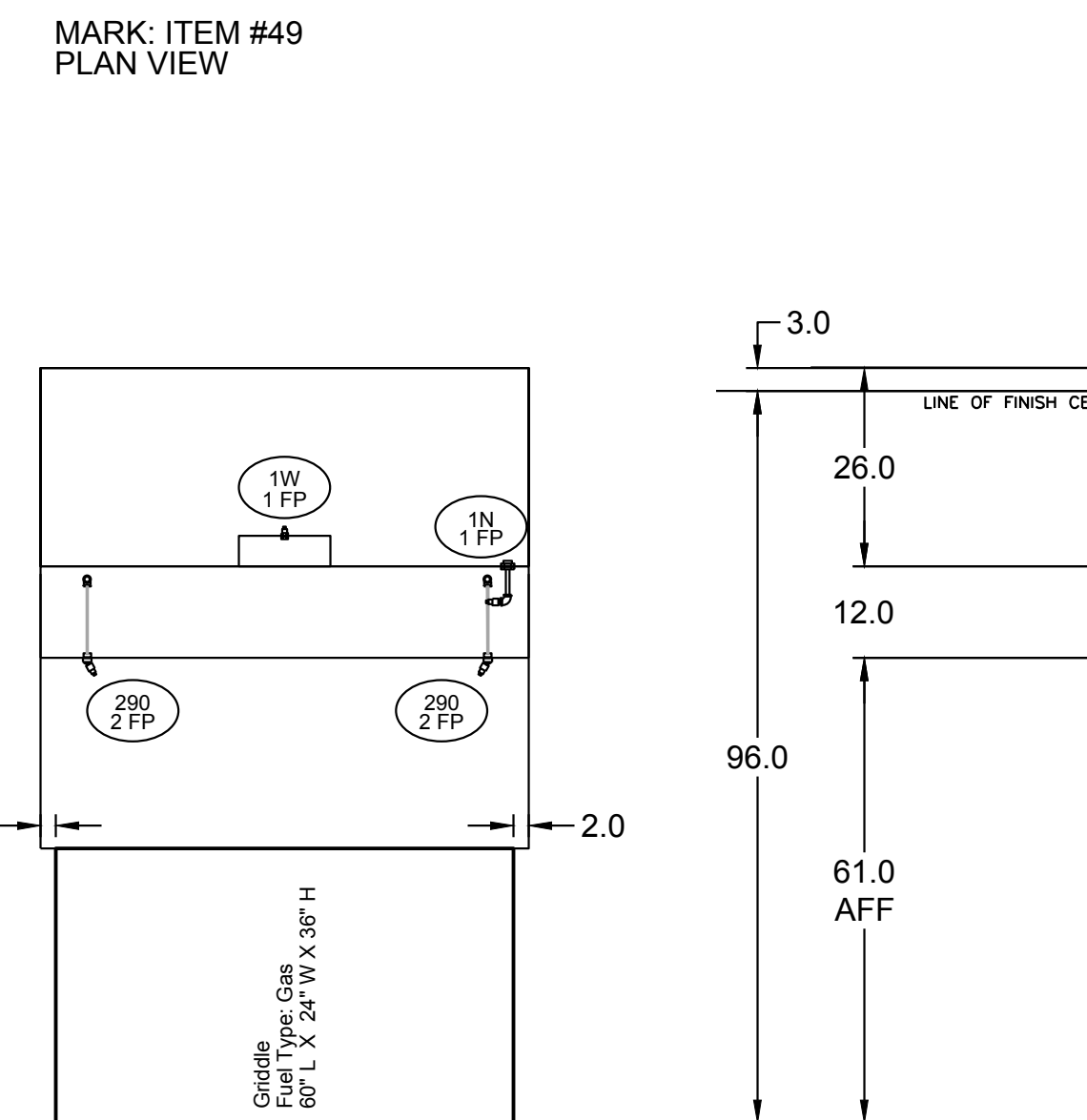
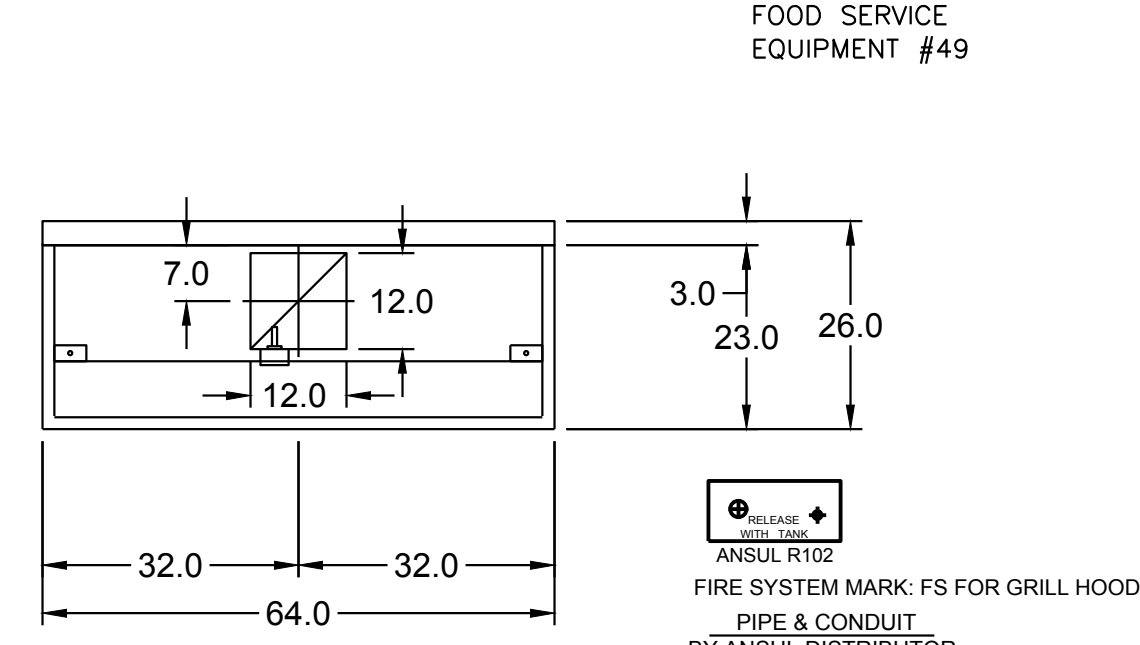
Exhaust and supply air volumes are to be maintained within -5% to +10% tolerance of values indicated. Static pressure(s) indicated are for the ventilator at the duct connection(s) only.

The grease filter face velocities are based on the filter manufacturers recommendations for maximum grease extraction. Inlet opening air velocities for waterwash, dry cartridge and high velocity cartridge filters manufactured by Greenheck are designed to deliver maximum grease extraction.

Hoods installation (by others unless otherwise noted) shall be in accordance with NFPA # 96 and applicable building codes.

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Thank you for your interest in Accurex

**SUBMITTAL**

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**REV DESCRIPTION DATE**

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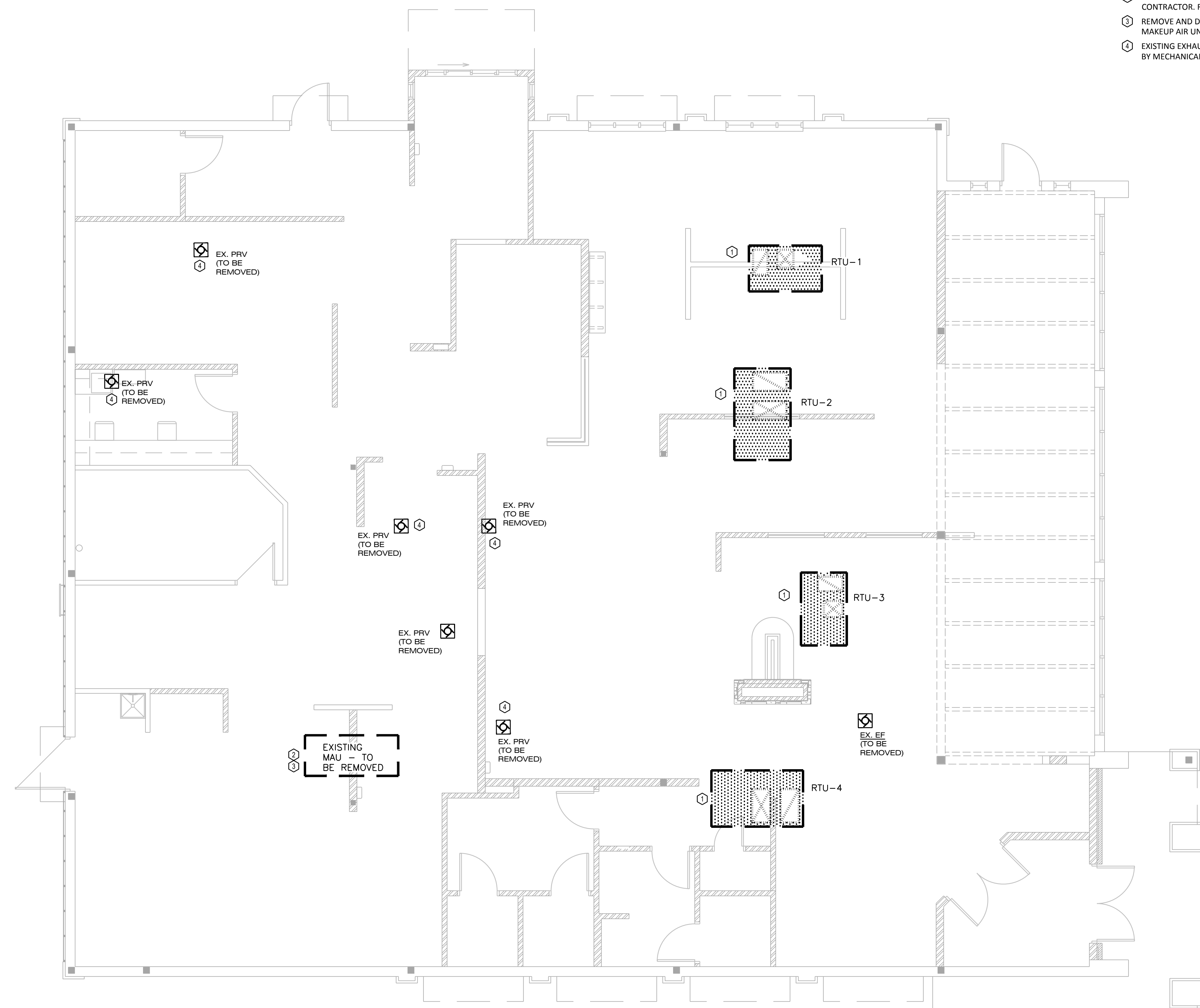
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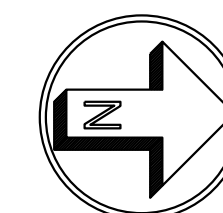
**MECHANICAL DEMOLITION KEYNOTES**

- ① EXISTING ROOFTOP UNIT TO BE REMOVED AND DISPOSED OF BY MECHANICAL CONTRACTOR. MAINTAIN EXISTING CURB AND SUPPLY & RETURN DROPS FOR CONNECTION TO NEW ROOFTOP UNITS
- ② EXISTING MAKEUP AIR UNIT TO BE REMOVED AND DISPOSED OF BY MECHANICAL CONTRACTOR. ROOF OPENING TO BE PATCHED BY GC.
- ③ REMOVE AND DISPOSE OF ALL MAKEUP AIR DUCTWORK AND DIFFUSERS ASSOCIATED WITH MAKEUP AIR UNIT.
- ④ EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE REMOVED AND DISPOSED OF BY MECHANICAL CONTRACTOR. ROOF OPENING TO BE PATCHED BY GC.



**ROOFTOP HVAC  
 DEMOLITION PLAN**

SCALE: 3/16" = 1'-0"



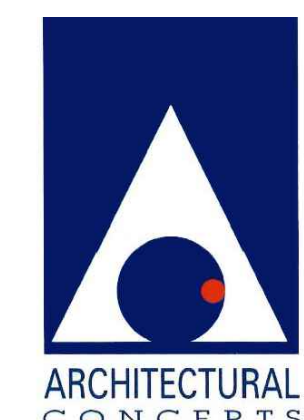
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DATE	REVISION
04-28-2023	FOR CONSTRUCTION

PROPOSED RENOVATION FOR:



1180 WEST SUPERIOR STREET  
 WAYLAND, MI 49348



ARCHITECTURE  
 PLANNING  
 ENGINEERING  
 6650 CROSSING DRIVE, S.E.  
 GRAND RAPIDS, MI 49508  
 (616) 554-1222  
 FAX (616) 554-1225

DATE APRIL 28, 2023	PROJECT No. 22-38
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SHEET No. <b>M-1D</b>
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