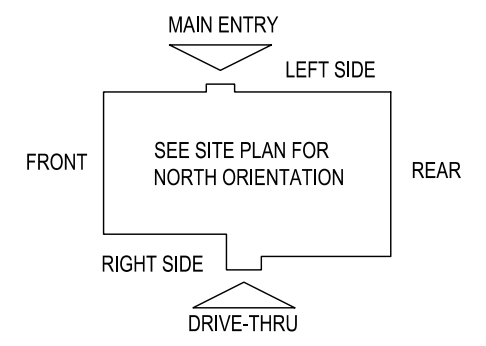


**E5 HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**NOTE:** ALL DUCTWORK TO BE LOCATED IN TRUSS SPACE WHERE POSSIBLE. SEE FRAMING PLAN.

HVAC SETPOINTS RECOMMENDED BY CORPORATE OPERATIONAL GUIDELINES:  
 1. DINING: HEATING 70 DEGF. COOLING 72 DEGF.  
 2. KITCHEN: HEATING 68 DEGF. COOLING 74 DEGF

SUPPLY DUCTWORK SIZING TABLE*			
ROUND		RECTANGULAR	
SIZE	CFM RANGE	SIZE	CFM RANGE
8"	115 - 235	8"x8"	205 - 300
10"	240 - 435	10"x8"	305 - 400
12"	440 - 710	10"x10"	405 - 550
14"	715 - 1,070	12"x10"	555 - 700
16"	1,075 - 1,530	12"x12"	705 - 900
18"	1,535 - 2,090	14"x12"	905 - 1,105
20"	2,095 - 2,760	16"x12"	1,110 - 1,315
22"	2,765 - 3,550	18"x12"	1,320 - 1,520
24"	3,555 - 4,470	20"x12"	1,525 - 1,740
		22"x12"	1,745 - 1,950
		24"x12"	1,955 - 2,170
		26"x12"	2,175 - 2,400
		28"x12"	2,405 - 2,610
		30"x12"	2,615 - 2,840
		32"x12"	2,845 - 3,070
		34"x12"	3,075 - 3,290
		36"x12"	3,295 - 3,520
		36"x14"	3,525 - 4,420

\*CONTRACTOR MAY SUBSTITUTE RECTANGULAR FOR ROUND DUCTWORK ON MAIN RUNS AT THEIR DISCRETION. BRANCHES TO DIFFUSERS TO REMAIN ROUND.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE									
TAG	SERVICE	TYPE	MATERIAL	THROW	FACE	NECK	MOUNTING	MANUFACTURER/MODEL	Notes
SD-1	SUPPLY	LOUVERED	STEEL	4-WAY	24X24	SEE PLAN	LAY-IN	CARNES SFP24	2, 4
SD-2 - NOT USED									
SD-3	SUPPLY	LOUVERED	STEEL	3-WAY	SEE PLAN	SEE PLAN	SURFACE	CARNES SKSA	2, 4
SD-4	SUPPLY	LOUVERED	STEEL	4-WAY	12X12	SEE PLAN	SURFACE	CARNES SKSA	1, 2, 4
SD-5	SUPPLY	PERFORATED	STEEL	PERFORATED	24X24	SEE PLAN	LAY-IN	CARNES SPRB24	2, 4
RG-1	RETURN	SQUARE EGGRATE	ALUMINUM	N/A	24X24	22X22	LAY-IN	CARNES RAPMF	2, 3, 4
EG-1	RETURN	LOUVERED GRILLE	STEEL	N/A	12X12	SEE PLAN	SURFACE	CARNES RTLAH	1, 2, 4
TG-1	TRANSFER	LOUVERED GRILLE	STEEL	N/A	SEE PLAN	SEE PLAN	SURFACE	CARNES RTLAH	2, 4

**DIFFUSER NOTES:**  
 1. PROVIDE w/ ADJUSTABLE OPPOSED BLADE DAMPER  
 2. VERIFY ALL DIFFUSERS AND RETURN GRILLE COLORS WITH OWNER AND ARCHITECT  
 3. PROVIDE w/ 22X22 PLENUM BOX.  
 4. ALL DIFFUSERS AND RETURNS LOCATED IN BLACK CEILING SHALL BE FLAT BLACK FINISH.

© 2023

**NEW CULVER'S RESTAURANT**  
 7600 Antioch Rd  
 Paddock Lake, WI 53168  
 County of KENOSHA

**OWNER:**  
 Culver Franchising System, Inc.  
 1240 Water Street  
 Prairie du Sac, WI 53578  
 608-843-7980

**OWNER:**  
 Merch Network Five, LLC  
 10484 Corporate Dr  
 Pleasant Prairie, WI 53185  
 Ashish Merchant  
 312-404-8858

**OWNER:**  
 OLLMANN ASSOCIATES ARCHITECTS, P.C.  
 200 South State Street  
 Belvidere, Illinois 61008  
 815-544-7190 Phone  
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HVAC PLAN, DIFFUSER SCHEDULE

Revision: 5-9-2023

2023-027

M101

# GENERAL NOTES

- DEVIATIONS FROM THE HVAC PLANS ARE THE RESPONSIBILITY OF THE HVAC CONTRACTOR & WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER UNLESS WRITTEN CHANGE ORDERS ARE APPROVED BY THE OWNER.
- ALL WORK TO BE PERFORMED TO STATE CODE & SMACNA GUIDELINES.
- INSTALL UNITS ACCORDING TO MANUFACTURERS GUIDELINES.
- PROVIDE OWNER W/ OPERATION & MAINTENANCE MANUALS & SYSTEM SCHEMATICS.
- CONTRACTOR TO CONFIRM VOLTAGES & PHASES OF EQUIPMENT PRIOR TO INSTALLATION.
- VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION (DRAWINGS ARE DIAGRAMMATIC IN NATURE & DO NOT REFLECT EXACT LOCATIONS OF EQUIPMENT OR OTHER APPARATUSES.)
- PROVIDE SHOP DRAWINGS TO THE ARCHITECT/DESIGNER FOR EQUIPMENT, FANS, REGISTERS, ETC. PRIOR TO PROCUREMENT.
- PROVIDE OWNER W/ COLOR CHOICES FOR SWITCHES & OTHER APPARATUSES WHERE APPLICABLE.
- VENT OWNER WATER HEATER AS REQUIRED.
- VENT DRYER THRU SIDEWALL TO EXTERIOR AS REQUIRED. MAINTAIN CLEARANCE FROM INTAKES AS NOTED.
- HANG & SUPPORT MATERIALS SHALL BE INSTALLED THE LATEST EDITION OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.
- MAINTAIN AT LEAST 10 FEET CLEARANCE FROM INTAKES OR WINDOWS ON ALL EXHAUST VENTS.
- TEST, ADJUST, & CALIBRATE CONTROL SYSTEMS AS REQUIRED. PROVIDE SCHEMATICS / DESCRIPTION TO THE OWNER PRIOR TO INSTALLATION.
- INSTALLER RESPONSIBLE FOR FINAL TEST & BALANCING DURING TRAINING WEEK. PROVIDE WRITTEN REPORT BY THIRD PARTY INDEPENDENT TAB CONTRACTOR.
- VERIFY W/ OWNER EXACT HEATER LOCATION TO AVOID BUILDING FUNCTION INTERFERENCE.
- REPLACE ALL AIR FILTERS PRIOR TO TURNING SYSTEM OPERATIONS OVER TO OWNER.
- HVAC CONTRACTOR IS RESPONSIBLE FOR A COMPLETE & FULLY WORKING SYSTEM.
- DUCT DIMENSIONS LISTED ARE NET FREE - CLEAR INSIDE DIMENSIONS.
- VERIFY DUCT LOCATIONS PRIOR TO FABRICATION. (VERIFY LIMITED AREA FOR DUCTWORK & OTHER APPARATUSES.)
- INSULATE DUCT WORK TO SMACNA GUIDELINES & STATE CODES.
- INSTALL VOLUME CONTROL DAMPERS AS INDICATED ON PLANS.
- FLEXIBLE ROUND DUCT WORK NOT TO EXCEED 8 FEET IN LENGTH. AVOID UNNECESSARY TURNS & SLACK.
- RETURN AIR DUCT WORK TO BE LINED FOR SOUND ATTENUATION.
- DUCT WORK TO BE STANDARD GAUGE SHEET METAL (FIBROUS DUCT NOT ALLOWED.)
- INSULATE EXHAUST DUCT FOR EXHAUST FAN TO EXTERIOR TERMINATION.
- COORDINATE WORK W/ GENERAL CONTRACTOR & OWNER TO MAXIMIZE CEILING HEIGHT & AVOID CONFLICTS.
- S/S WALL PANELS FOR THE KITCHEN AREA ARE TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. PANELS ARE TO BE 18 GA. TYPE 304 S/S. SEE DETAILS AND LOCATIONS ON THE A103 DRAWING.
- EXHAUST FANS AND FURNACE FANS TO RUN CONTINUOUSLY DURING OCCUPIED MODE.
- NIGHT SET BACK THERMOSTATS TO BE INSTALLED ON ALL HVAC EQUIPMENT.

## 2023-027 CULVER'S OF PADDOCK LAKE, WI PADDOCK LAKE, WI

### RTU SCHEDULES

UNIT No	AREA SERVED	SUPPLY FAN					COOLING						HEATING				ELECTRICAL (1)		MANUFACTURER, MODEL		
		SUPPLY FAN TYPE	SA FAN VFD	SUPPLY CFM	MIN OA CFM	ESP	OA TEMP		MIXED AIR TEMP		SUPPLY TEMP		COIL CAPACITY		GAS OR ELEC	OUTPUT MBH	OAT °FDB	HEATING STAGES		VOLTAGE	PHASE
							°FDB	°FWB	°FDB	°FWB	COIL LAT °FDB	COIL LAT °FWB	SENSIBLE MBH	LATENT MBH							
RTU-1	DINING ROOM	MSAV	YES	6,150	1,750	0.75"	91	76	79.27	66.91	55.00	54.62	160	70	GAS	251	-19	2	208	3	LENNOX, ENLIGHT LGT
RTU-2	KITCHEN	MSAV	YES	6,225	1,700	0.75"	88	76	78.55	66.94	55.00	54.81	158	73	GAS	192	-19	2	208	3	LENNOX, ENLIGHT LGT

- ADDITIONAL FACTORY INSTALLED OPTIONS FOR BOTH UNITS:**
- WEATHERPROOF DISCONNECT
  - FACTORY INSTALLED/FIELD POWERED GFCI
  - RETURN SMOKE DETECTOR
  - DRAIN PAN OVERFLOW SWITCH
  - SINGLE ENTHALPY ECONOMIZER W/ FAULT DETECTION DIAGNOSTICS
  - BAROMETRIC RELIEF
  - HAIL GUARDS
  - 2" MERV 13 FILTERS
  - SS HEAT EXCHANGER
  - HOT GAS REHEAT

- ADDITIONAL FIELD INSTALLED OPTIONS FOR BOTH UNITS:**
- 14" DOWNFLOW HYBRID CURB
  - PVC DRAIN TRAP KIT
  - REMOTE TEMPERATURE AND HUMIDITY SENSORS
  - LENNOX MODEL CS7500 PROGRAMMABLE THERMOSTAT
  - OUTDOOR AIR CFM CONTROL

- NOTES:**
- NOTIFY ELECTRICAL CONTRACTOR OF BREAKER REQUIREMENTS AFTER SELECTION

PRV-1 RESTROOM EXHAUST FAN - REFER TO SHEET M204

PRV-2 GRIDDLE EXHAUST FAN - REFER TO SHEET M202

PRV-3 FRYER EXHAUST FAN - REFER TO SHEET M203

EF-1A MOP ROOM EXHAUST FAN - REFER TO SHEET M204

ITEM #49A GRIDDLE HOOD - REFER TO SHEET M202

ITEM #59A FRYER HOOD - REFER TO SHEET M203

ECM-1 ELECTRIC CEILING HEATER Q-MARK OR EQUAL CDF-548 ELECTRIC CEILING HEATER & CDF RECESSED MOUNTING FRAME, CDF-TR4 TRANSFORMER & WALL MOUNTED THERMOSTAT, 208/240 VOLT SINGLE PHASE = 19.2 AMPS (SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.)

### CONTROL NOTES

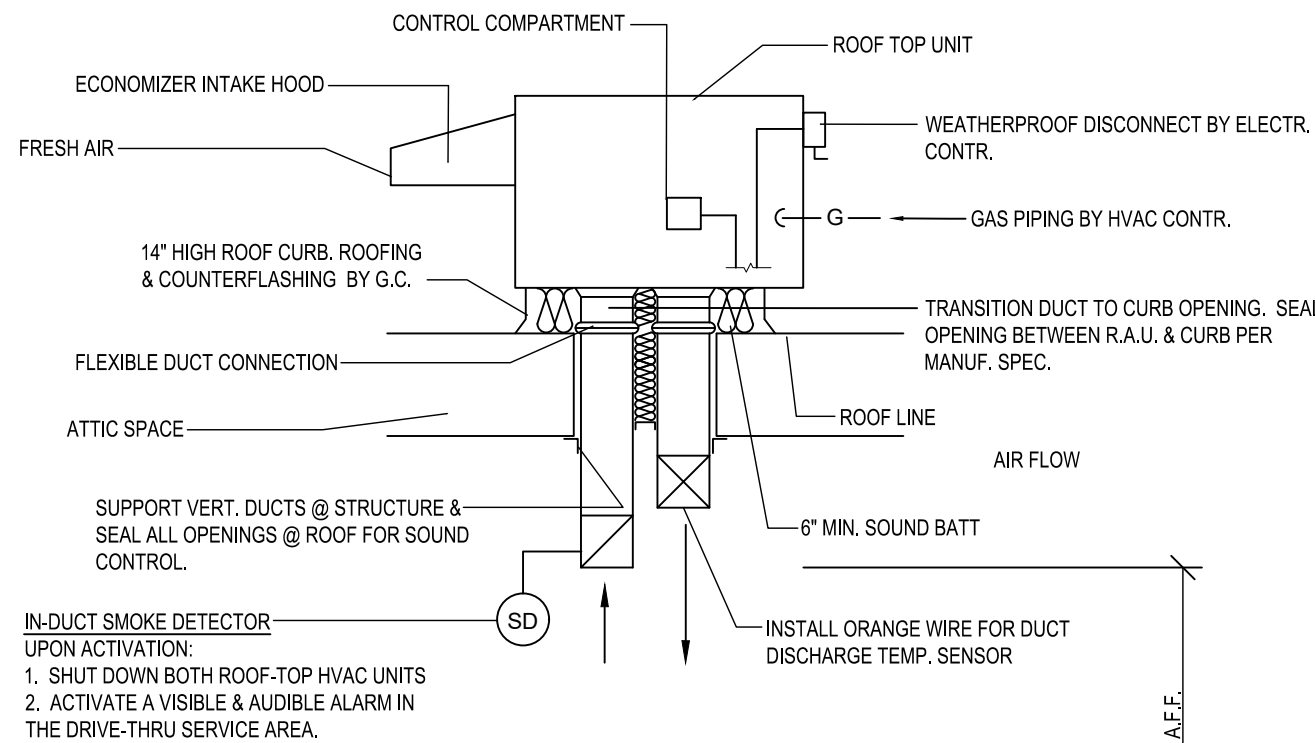
NOTE: KITCHEN HOODS SUPPLIED AND INSTALLED BY HVAC CONTRACTOR

- WIRE RTU-1, RTU-2 TO SHUT-DOWN & EXHAUST HOOD FANS TO CONTINUE TO RUN UPON ACTIVATION OF THE ANSUL SYSTEM.
- WIRE RTU-1 & RTU-2 TO SHUT-DOWN UPON ACTIVATION OF ANY IN-DUCT SMOKE DETECTOR.
- OCCUPIED MODE: FANS IN RTU-1 & RTU-2, EXHAUST FANS PRV-1, PRV-2, PRV-3 AND EF-1 TO RUN CONTINUOUSLY.
- UNOCCUPIED MODE: FANS IN RTU-1 & RTU-2 TO RUN ONLY WHEN COOLING OR HEATING IS CALLED FOR.

### TEST & BALANCE NOTES

- ACCUREX WILL PROVIDE BALANCED AIRFLOW & FUNCTIONAL CHARACTERISTICS OF THE HVAC SYSTEM AS THEY RELATE TO AIRFLOW & AIR PRESSURE ONLY. SERVICES TO BE PERFORMED BY A CERTIFIED NEBB FIRM & ITS MANAGING GROUP NATIONAL TAB.
- SERVICES NOT INCLUDED: PULLEY / SHEAVE CHANGES, MOTOR CHANGE OUTS, OR RETURN TRIPS DUE TO DELAYS CAUSED BY JOB INCOMPLETENESS.
- ESTABLISH MINIMUM OUTSIDE AIR FLOW INDICATED ON SCHEDULES AT ALL SUPPLY FAN SPEEDS.

AIR BALANCE TABLE				
EXHAUST AIR FLOW				
EQUIPMENT TAG	SERVICE	CFM		
PRV-1	RESTROOMS	300		
PRV-2	ITEM #49	1,500		
PRV-3	ITEM #59	1,500		
EF-1A (x2)	MOP ROOM	150		
TOTAL =		3,450		
VENTILATION REQUIRED PER WISCONSIN MECHANICAL CODE				
EQUIPMENT TAG	SERVICE	CFM		
RTU-1	DINING ROOM	1,133		
RTU-2	KITCHEN	60		
TOTAL =		1,193		
3,450 > 1,193 -> USE 3,450 CFM FOR OUTSIDE AIR CFM				
OVERALL AIRFLOW SUMMARY				
EQUIPMENT TAG	SERVICE	SUPPLY CFM	RETURN CFM	OUTSIDE AIR CFM
RTU-1	DINING ROOM	6,150	4,400	1,750
RTU-2	KITCHEN	6,225	4,525	1,700
TOTAL OUTSIDE AIR CFM =		3,450		

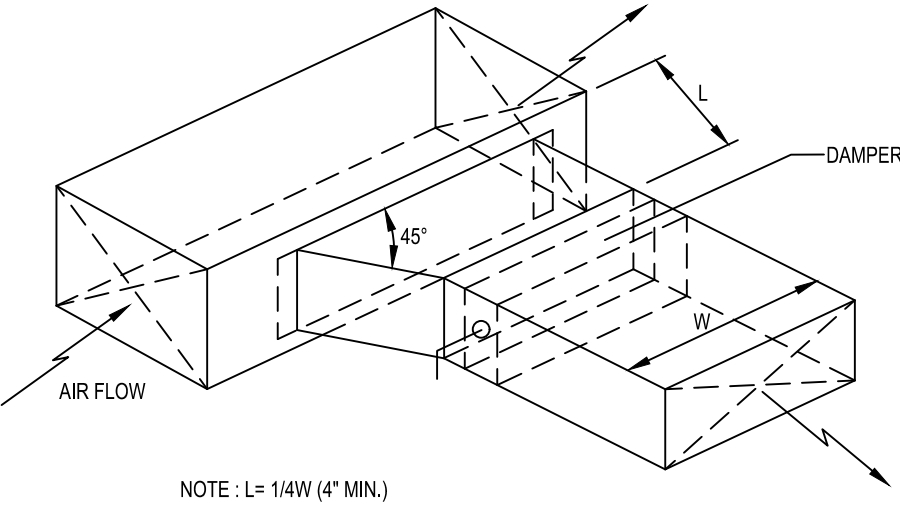
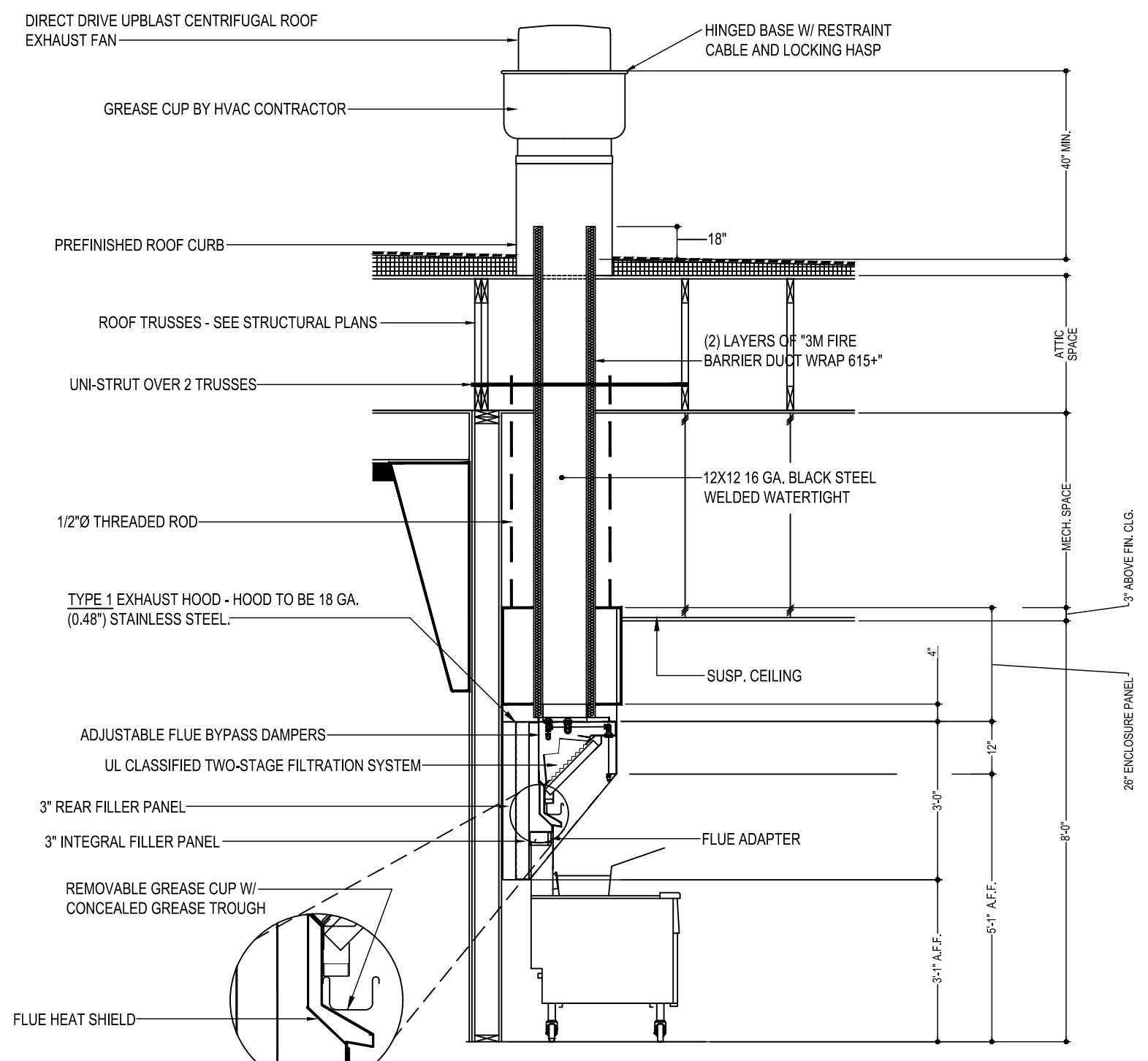


### A6 ROOFTOP HVAC UNIT

SCALE: N.T.S.

### C3 KITCHEN HOOD EXHAUST DETAIL

SCALE: N.T.S.  
VERIFY MOUNTING HEIGHTS W/ OWNER AND GENERAL CONTRACTOR



### C6 BRANCH DUCT TAKEOFF DETAILS

SCALE: N.T.S.

### LENNOX SETTINGS FOR CULVERS

IN ORDER TO SET UP THE RTU'S YOU WILL NEED TO DOWNLOAD LENNOX CORE SERVICE APP. AND PAIR YOUR DEVICE WITH THE CORE CONTROLLER. ONCE PAIRED YOU WILL SEE THE OPERATION OVERVIEW SCREEN. SEE INSTALLATION MANUAL FOR INSTRUCTIONS ON DOWNLOADING THE APP. OR SCAN THE QR CODE ON THE FRONT COVER OF THE CONTROLLER.

**HEAT DELAY ADJUSTMENT**  
HEAT DELAY WILL BE PRS IN THE CORE CONTROLLER AND CHANGED IN THE APP AS SHOWN IN THE MENU PATH BELOW. DEFAULT IS SET AT 3600 SECONDS.  
• TAP THE MENU BUTTON (THREE LINES IN THE UPPER LEFT OF THE SCREEN) TO OPEN THE MENU  
• MENU SCROLL DOWN AND TAP ON RTU OPTIONS  
• TAP EDIT PARAMETER, CHOOSE FROM THE CATEGORY OF PARAMETERS LISTED. (FOR HEAT DELAY CHOOSE HEATING)  
• CHOOSE THE PARAMETER TO ADJUST (65), SELECT "0" FOR NO HEAT DELAY (0 SECONDS)

**FRESH AIR TEMPERING (HEATING)**  
THIS IS ADJUSTED THROUGH THE MENU FROM THE MAIN SCREEN  
• REACHING THE DESIRED SETTING. FRESH AIR HEATING ENABLED +YES OR NO. AFTER ENABLING FAH THE NEXT SCREEN WILL ALLOW THE FAH SET POINT TO BE CONFIGURED. SUGGESTED FAH TEMPERATURE RANGES 65-67 DEGREES F. VERIFY WITH ENGINEER

**GLOBAL ECONOMIZER MODE (KITCHEN UNIT ONLY)**  
THIS IS SET BY CHANGING CONFIGURATION ID#1 CHARACTER 2 TO G  
• FROM THE MAIN SCREEN (OPERATION OVERVIEW) TAP THE MENU BUTTON (THREE LINES IN THE UPPER LEFT OF THE SCREEN) TO OPEN THE MENU  
• TAP INSTALL  
• TAP NEXT ON DATE AND TIME  
• TAP NEXT ON RTU NAME, MODEL NUMBER, SERIAL NUMBER AND CATEGORY IF ALREADY ENTERED. IF NOT PLEASE ENTER  
• TAP CONFIGURATION ID 1 AND CHANGE 2ND CHARACTER TO G

**ECONOMIZER MINIMUM POSITION SET-UP**  
THIS IS ADJUSTED THROUGH THE MENU FROM THE MAIN SCREEN  
• TAP THE MENU BUTTON (THREE LINES IN THE UPPER LEFT OF THE SCREEN)  
• SCROLL DOWN AND TAP RTU OPTIONS  
• TAP EDIT PARAMETERS  
• CHOOSE FROM THE CATEGORY OF PARAMETERS LISTED (AIRFLOW)  
• CHOOSE THE PARAMETER TO ADJUST (132) MINIMUM FRESH AIR DAMPER POSITION DURING OCCUPIED OPERATION

**OCCUPIED AND UNOCCUPIED**  
• USING 24V THERMOSTAT CONTROL OCCUPIED/ UNOCCUPIED WILL BE DETERMINED BY INPUT ON P297-5 ON THE M4 BOARD  
• FOR KITCHEN UNIT ONLY BOTH THE THERMOSTAT AND HOOD FANS MUST BE TIED INTO P297-8 ON THE M4 CONTROL BOARD

**FRESH AIR TEMPERING (COOLING)**  
THIS IS ADJUSTED THROUGH THE MENU FROM THE MAIN SCREEN  
• REACHING THE DESIRED SETTING. FRESH AIR HEATING ENABLED +YES OR NO. AFTER ENABLING FAH THE NEXT SCREEN WILL ALLOW THE FAH SET POINT TO BE CONFIGURED. SUGGESTED FAH TEMPERATURE RANGES 73-75 DEGREES F. VERIFY WITH ENGINEER

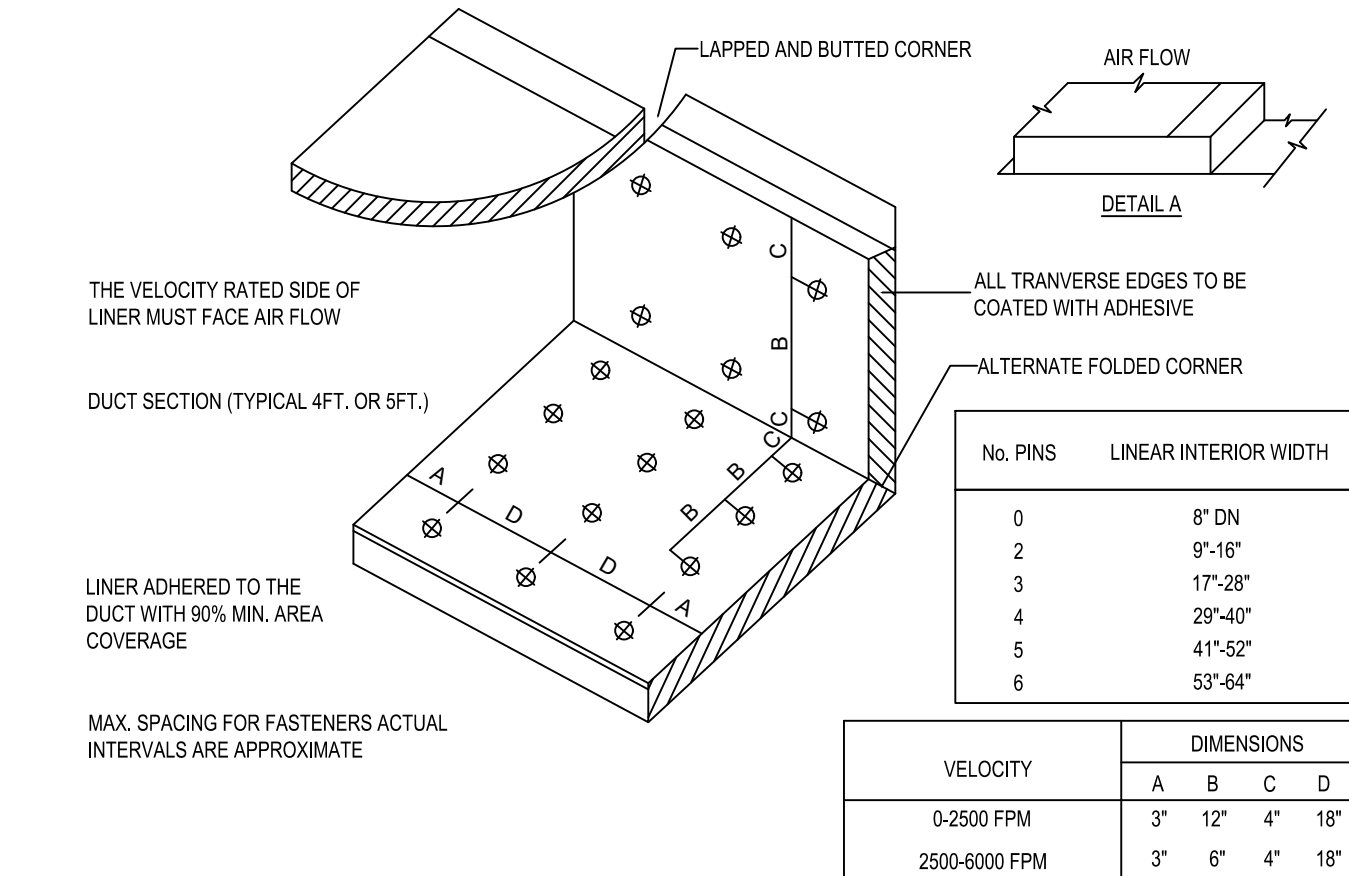
ENSURE THAT THE PROBE STYLE SENSOR GETS INSTALLED IN THE SUPPLY DUCTWORK FOR FAH/FACT TO OPERATE PROPERLY.  
FOR HELP PLEASE CALL LENNOX NATIONAL ACCOUNT TECH SUPPORT AT 1-800-367-6285  
CHECK FOR CORRECT OPERATION AND WIRING OF ALL SENSORS

### COOKING APPLIANCE / TYPE 1 HOOD INTERLOCK

- REMOTE SWITCH ON - POWER TO KITCHEN FAN CONTROL CENTER (KFCC)
- KFCC CONTROLS:
  - EXHAUST FANS PRV-2 (GRILLE) & PRV-3 (FRYERS) ARE STARTED.
  - OPENS OUTSIDE AIR INTAKE ON RTU-1 & RTU-2 TO MINIMUM FRESH AIR OPENING.
  - POWER TO OUTLETS #51 (GRILLE) & #60 (FRYERS).
- GRILLE & FRYER CAN BE STARTED.
- IN CASE OF FIRE:
  - SHUNT TRIP BREAK FOR GRILLE & FRYERS OUTLET TRIPS.
  - ANSUL SYSTEM IS ACTIVATED.
  - THE MECHANICAL GAS VALVES CLOSES.
  - SHUT DOWN RTU-1 & RTU-2 & CLOSE OUTSIDE AIR.
  - EXHAUST FANS PRV-2 & PRV-3 CONTINUE TO RUN.

### GREASE HOOD FIRE SUPPRESSION SYSTEM

WET-CHEMICAL EXTINGUISHING SYSTEMS SHALL BE INSTALLED, MAINTAINED, PERIODICALLY INSPECTED AND TESTED IN ACCORDANCE WITH NFPA 17A AND THEIR LISTING.



### E5 DUCT LINER INSTALLATION DETAIL

SCALE: N.T.S.  
NOTE: USE ONLY ON VERTICAL DROP FROM RTU TO WITHIN 9'-10" A.F.F.. DUCT LINER WILL NOT BE PERMITTED ON ANY HORIZ. RUNS.

**NEW CULVER'S RESTAURANT**  
7600 Antioch Rd  
Paddock Lake, WI 53168  
County of KENOSHA

OWNER:  
Merch Network Five, LLC  
10484 Corporate Dr  
Pleasant Prairie, WI 53158  
Ashish Merchant  
312-404-5858

OWNER:  
OLLMANN ASSOCIATES ARCHITECTS, P.C.  
200 South State Street  
Belvidere, Illinois 61008  
815-544-7190 Phone  
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**HVAC SCHEDULE & DETAILS**

Date: 5-9-2023

Revision:

2023-027

M201

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	TOTAL CFM	EXHAUST COLLAR(S)					SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.	MUA CFM	AC CFM		
1	GRIDDLE HOOD ITEM 49	XGEP-64-S	64	TOP 23 BOT 8	FRT 12 BACK 36	430 SS W/HERE EXPOSED	MEDIUM	1500	12	12		1500	1.918			136.8	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS			UTILITY CABINET(S)					
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM TYPE	SIZE	MODEL	CONTROLS INTERFACE
1	GRIDDLE HOOD ITEM 49					GREASE GRABBER	4	16					
						STAINLESS STEEL	0	20					

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625  
 BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE  
 26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED  
 FACTORY MOUNTED EXHAUST COLLAR(S)  
 PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY  
 STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

SPECIAL DESIGN REQUESTS

SDR #K1100145 - FLUE BYPASS HOOD  
 SDR #K1800144 - CULVERS 4VAT 2FIRE PROCESS - GRIDDLE HOOD

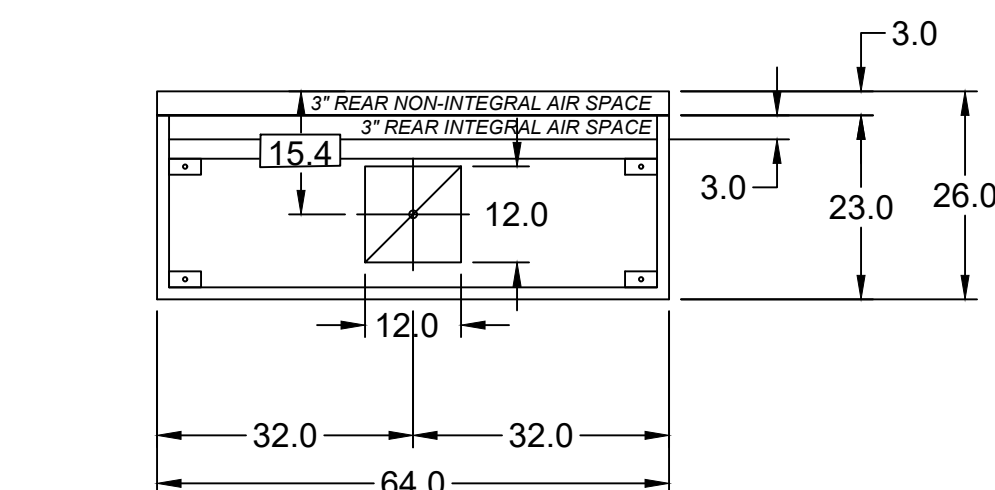
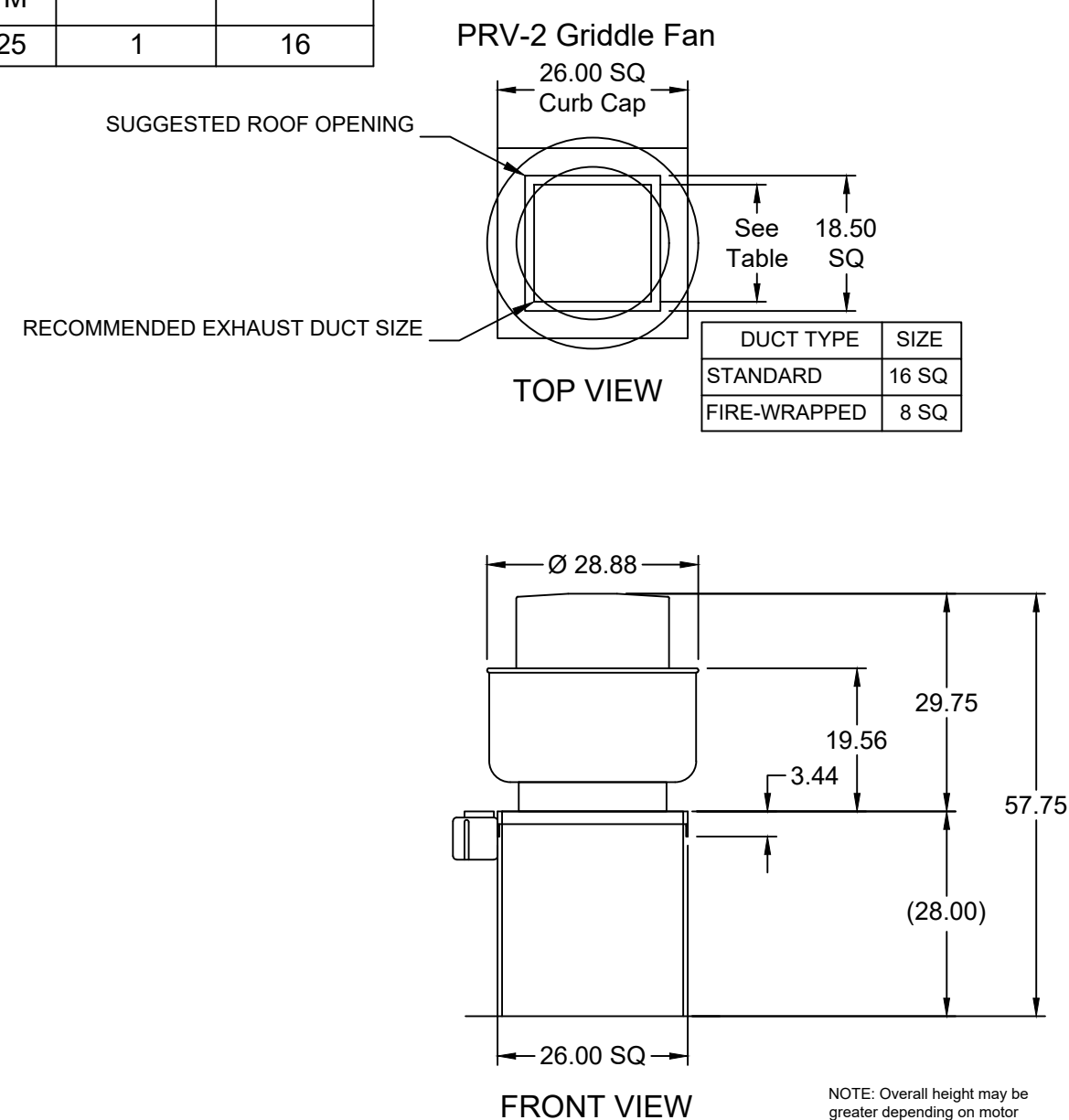
Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION			FAN INFORMATION					MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	PRV-2 Griddle Fan	XCUE-140-VG	1,500	1.8	1,702	0.83	92	1	115/60/1	OP	1725	1	16

\*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory\*

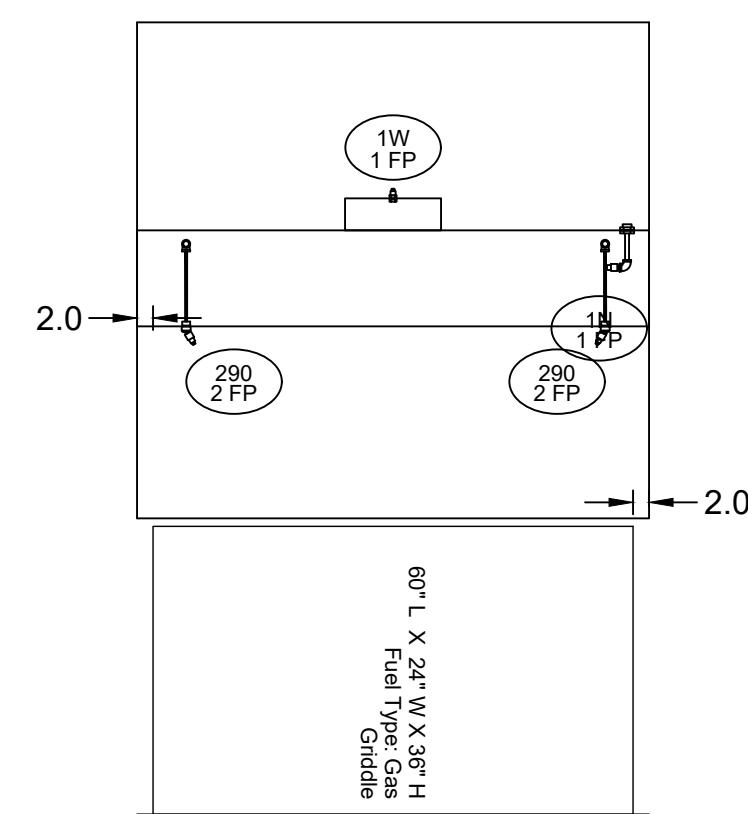
PRV-2 Griddle Fan : SELECTED OPTIONS AND ACCESSORIES

One piece fully welded windband  
 Tapered bushing wheel hub  
 Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)  
 Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)  
 Larger Curb Cap Size - 26 Square  
 UL/cUL 762 Listed - \*Power Ventilators for Rest. Exh. Appliances\*  
 Switch, NEMA-3R, Toggle, Shipped with Unit  
 Hinge, Factory Installed  
 High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)  
 Grease Trap (PN 475538)  
 Clean-out Port - Factory Installed

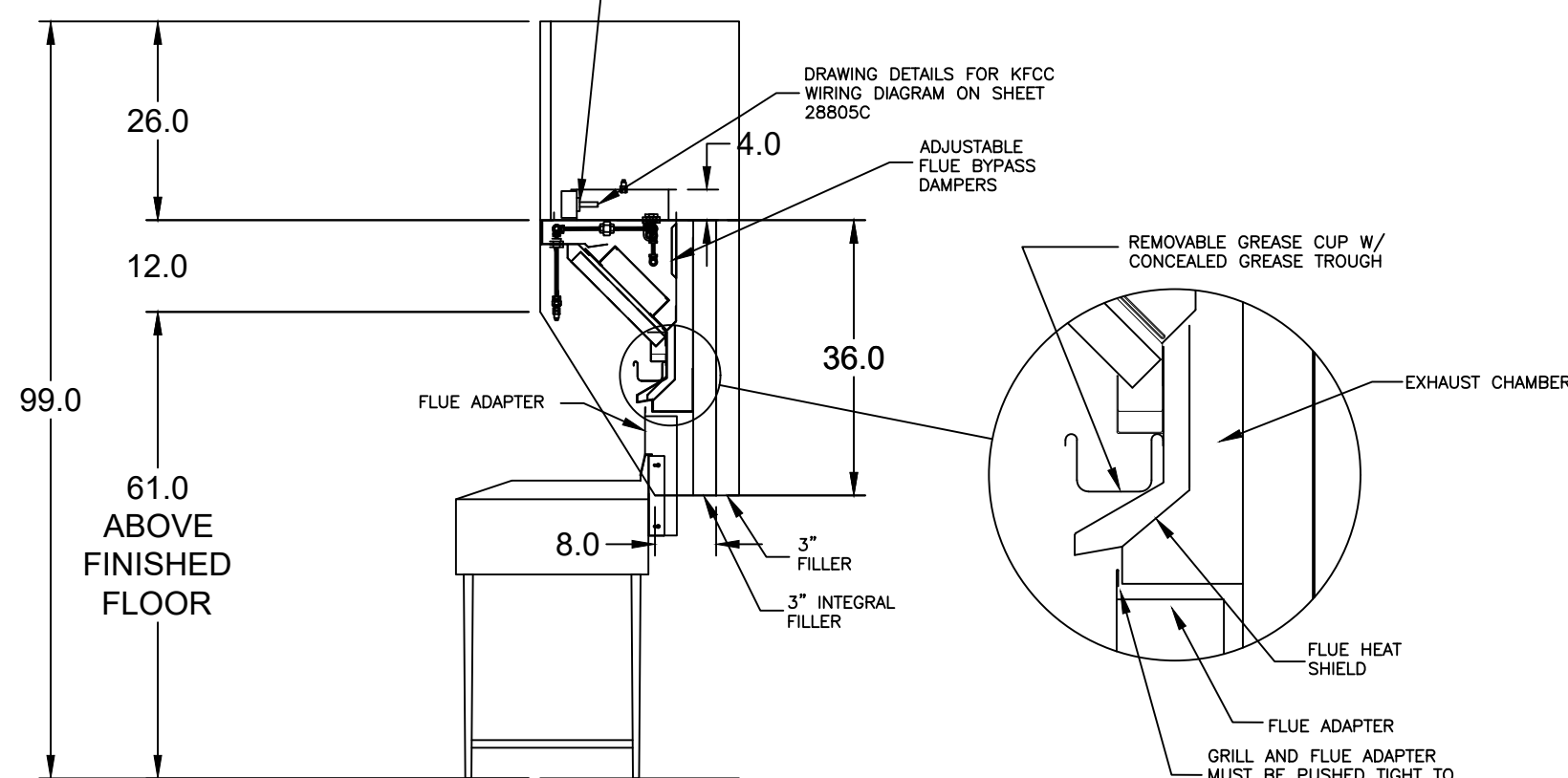


MARK: Griddle Hood - SECTION 1 PLAN VIEW

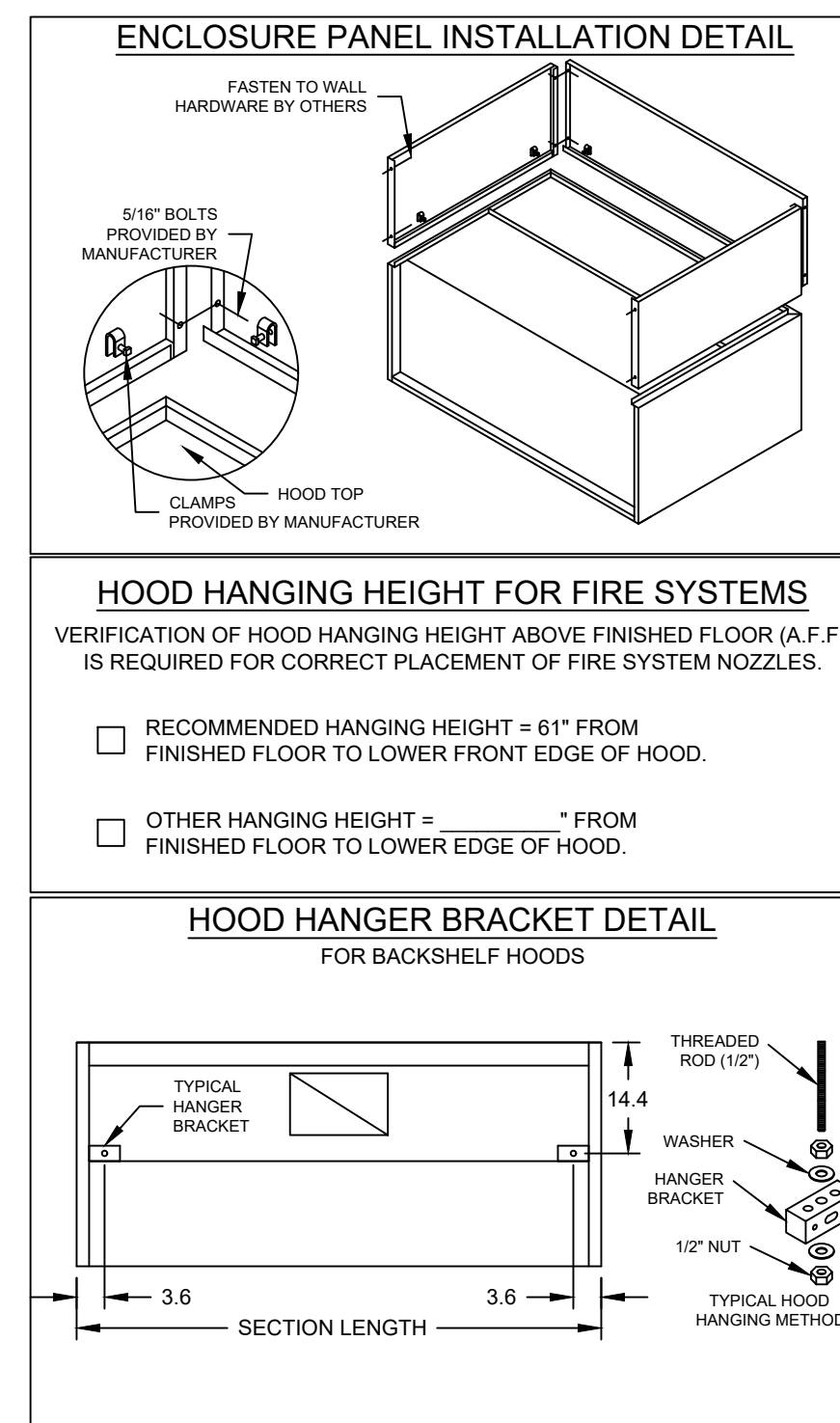
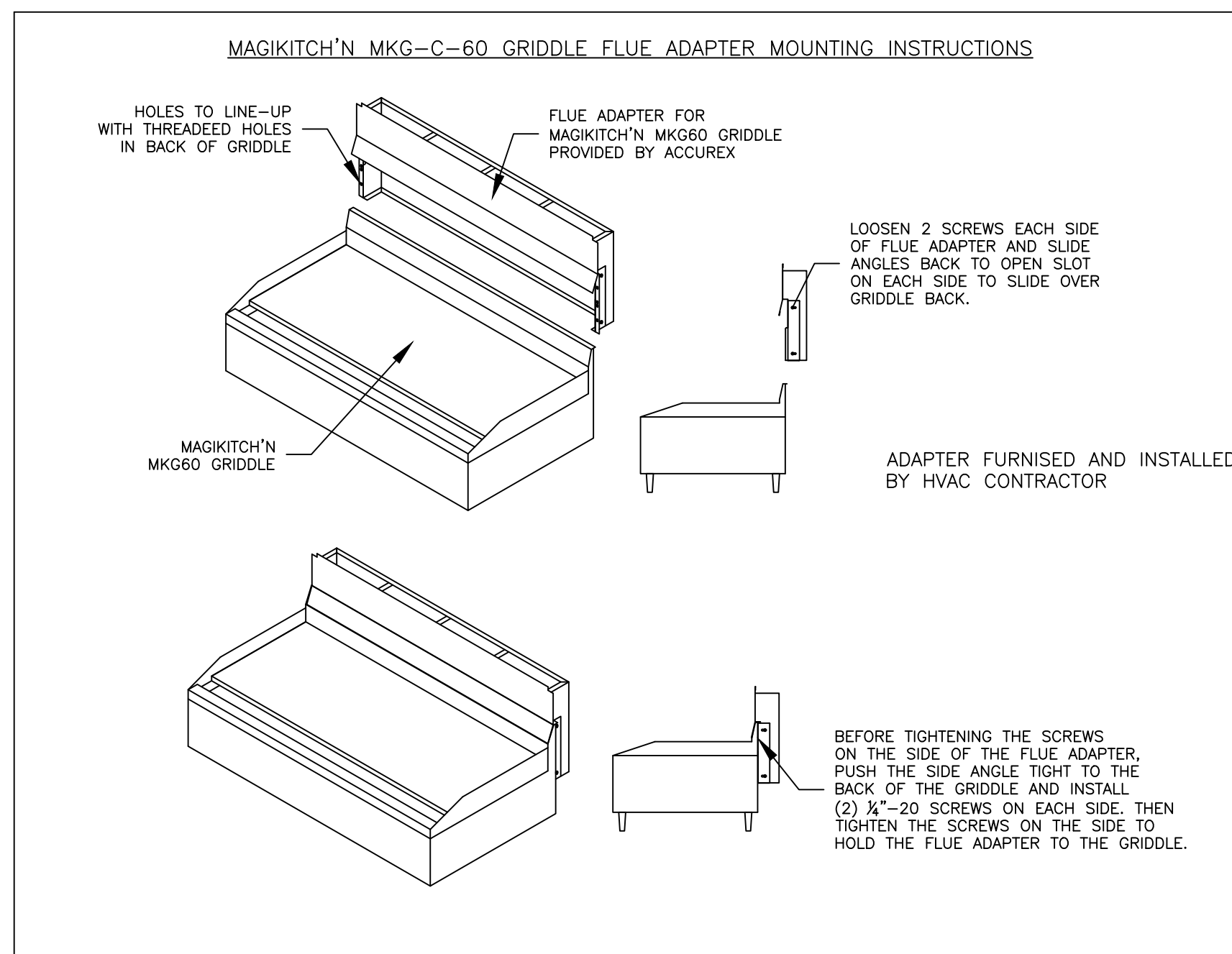
MUST USE WITH MAGIKITCH'N MODEL MKG-C-60  
 60" MAGIKITCH'N GRIDDLE FLUE ADAPTER  
 VERIFY MAGIKITCHEN OR ANETS GRILL



SECTION 1 ELEVATION VIEW



MARK: Griddle Hood SECTION VIEW

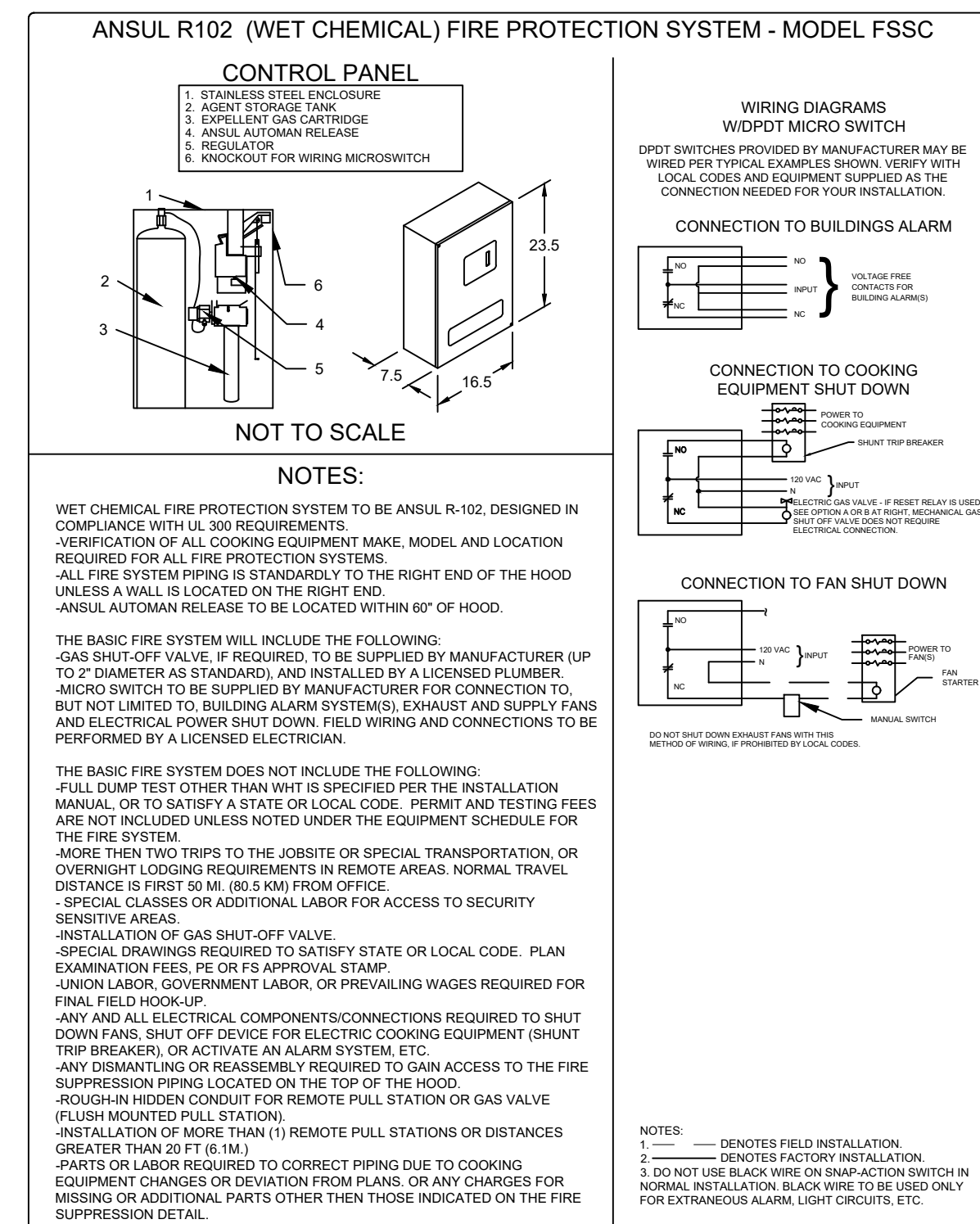


FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION
			HOODS	PCU		
FIRE SUPPRESSION-GRIDDLE HOOD	ANSUL R-102 WET CHEMICAL	REMOTE MOUNTED	6 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)  
 CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED  
 METAL BLOW-OFF CAPS - INCLUDED  
 HOOD SUPPRESSION AGENT - INCLUDED - 3 GAL. - [(1) 3.0 TANK(S)]  
 REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS



PROJECT 5/5/2023  
 MARK  
 ACCUREX - WI, IA  
 PHILLIP KRAFT  
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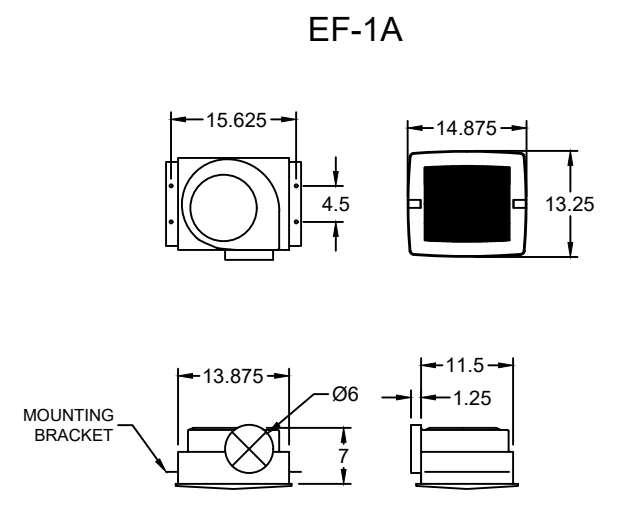
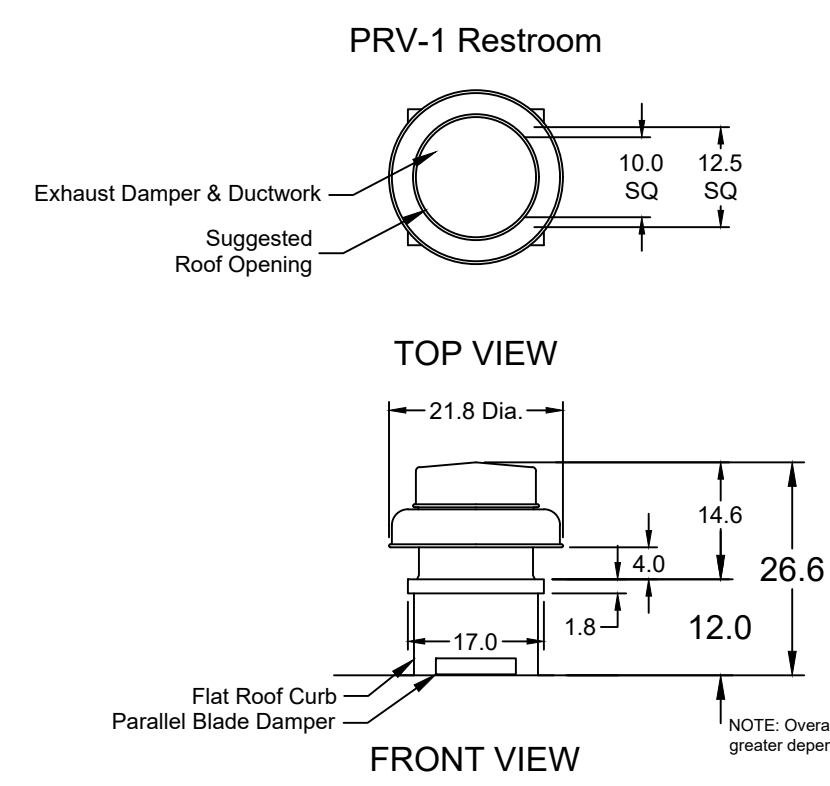
NEW CULVER'S RESTAURANT  
 7600 Antioch Rd  
 Paddock Lake, WI 53168  
 County of KENOSHA

OWNER:  
 Merch Network Five, LLC  
 10684 Corporate Dr  
 Belvidere, Illinois 61008  
 815-544-7190 Phone  
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GRIDDLE HOOD/EXHAUST SCHEDULE & DETAILS  
 Date: 5-9-2023  
 Revision:

2023-027  
 M202





EQUIPMENT SCHEDULE				
ELECTRICAL CONTROL BOX				
DESCRIPTION / ACCUREX MODEL	EXHAUST FAN QTY	SUPPLY FAN QTY	MARK: KXC	POWER FREQUENCY
MOUNTING LOCATION (CONTROL PANEL / SWITCHES)				
KITCHEN FAN CONTROL CENTER / XKC SHIP LOOSE / SHIP LOOSE FOR REMOTE MOUNTING	2	0		60 CYCLE
CONTROL PANEL ENCLOSURE - 16 GA 304 STAINLESS STEEL ENCLOSURE (NEMA-1) - DIMENSIONS 18 X 20 X 6				
WIRING DIAGRAM # T100-2 - 20				
STARTERS PROVIDED IN CONTROL PANEL - QTY 2				
USER INTERFACE CONTROL - QTY 1				
INTEGRATED EXHAUST TEMPERATURE INTERLOCK SYSTEM				
-FACTORY MOUNTED EXHAUST TEMPERATURE SENSORS - QTY 2				
-COMPLIES WITH INTERNATIONAL MECHANICAL CODE 2006 SECTION 507.2.1.1				
TURN ON EXHAUST IN FIRE				
THERMAL OVERLOADS IN CABINET				

EQUIPMENT SCHEDULE												
Direct Drive Centrifugal Roof Exhaust Fan												
City	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	Encr.	Motor RPM	Windings	FLA
1	XRED-090-VG	300	0.5	1465	0.060	30	0.1	115/601	OP	1725	1	NA

EQUIPMENT SCHEDULE												
Ceiling Exhaust Fan												
City	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	Encr.	Motor RPM	Windings	FLA
	XCR-B80	75	0.125	855	0.01	10	0.0	115/601	OP	900	1	NA



**MARK: CONTROLS**

**CAUTION**  
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

**UL LISTED 438M** COMMERCIAL APPLIANCE OUTLET CENTER ELECTRICAL RATINGS: 120V, 1PHASE, 60HZ, 15A BASE FILE #E200616, ML FILE #E313951

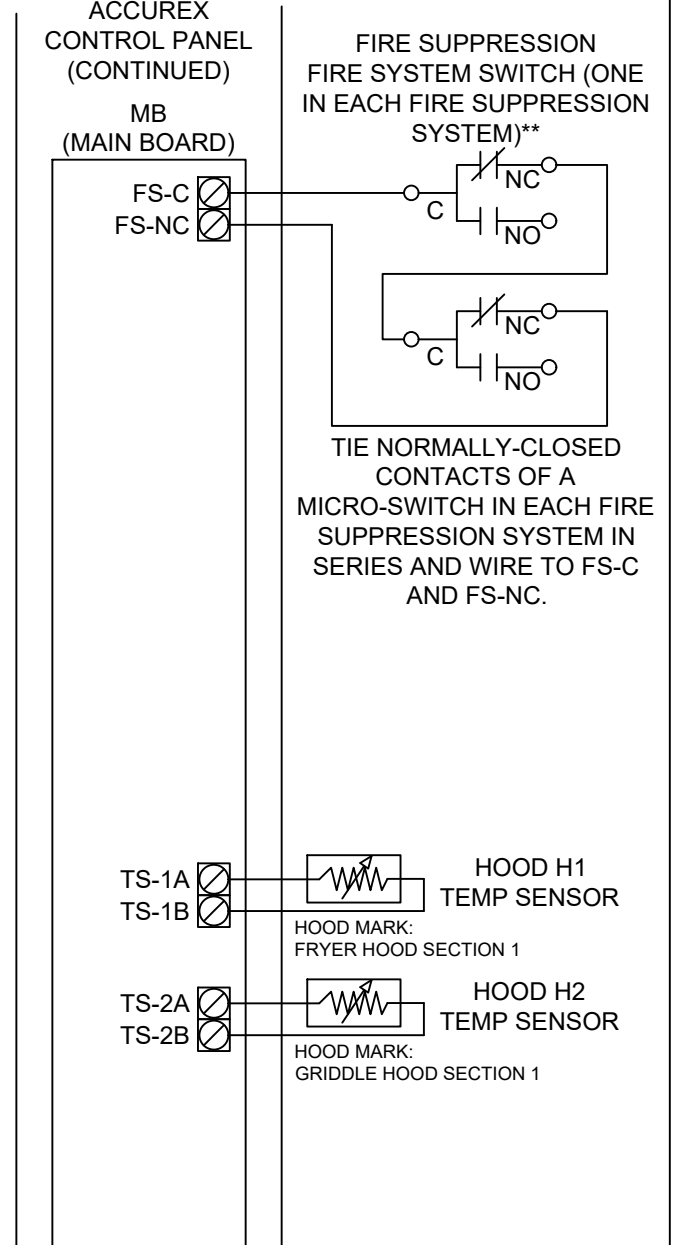
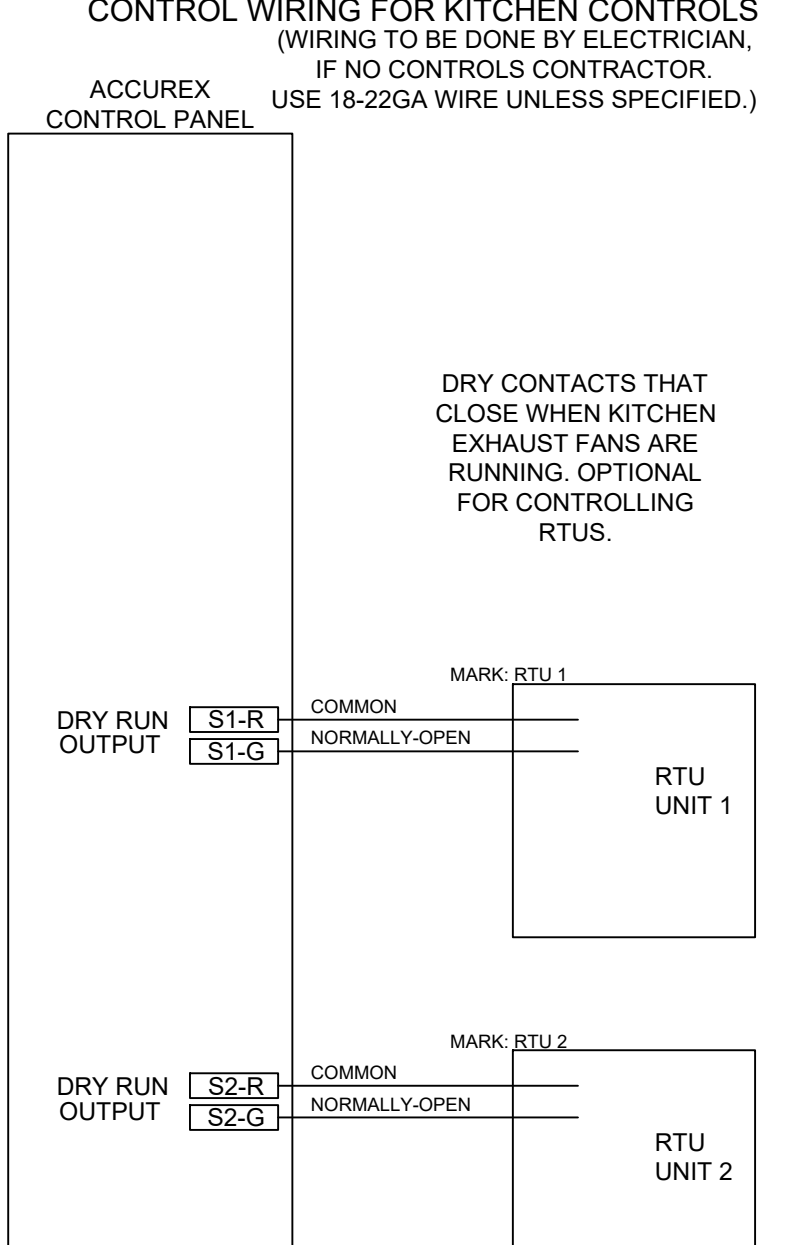
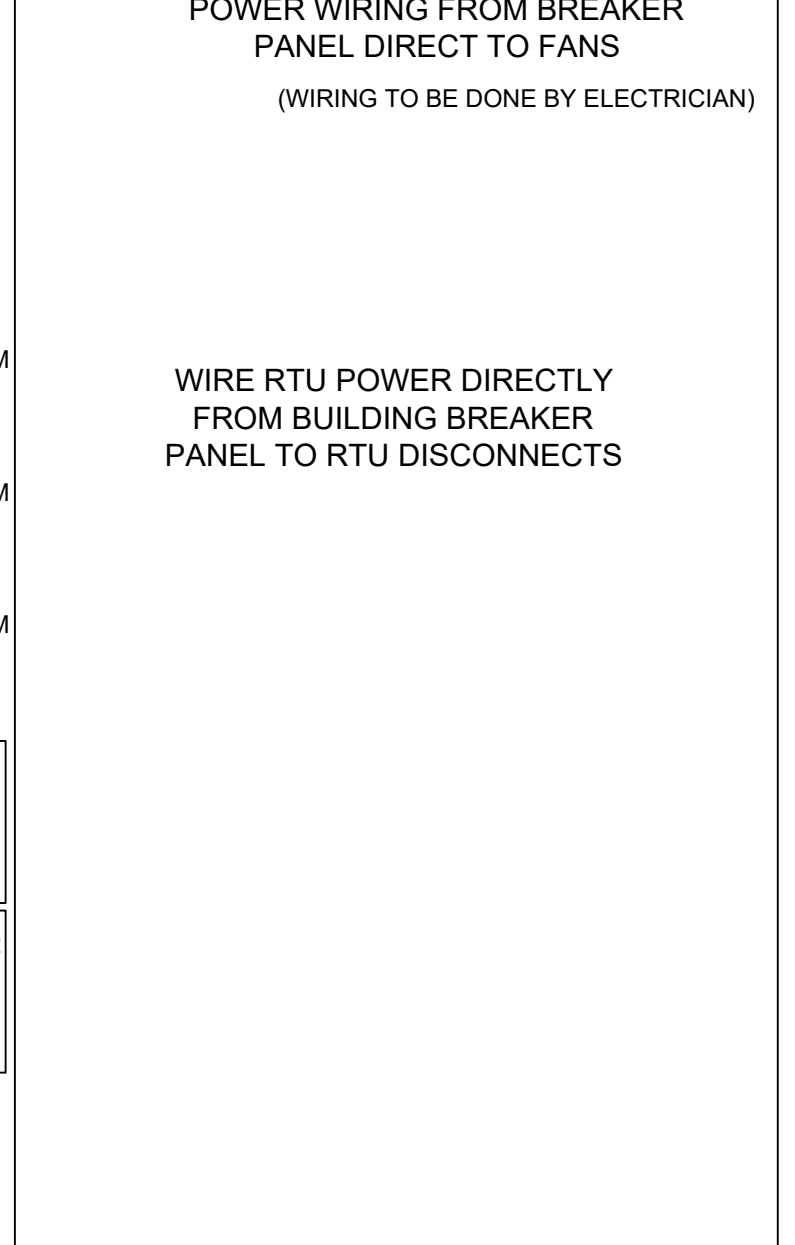
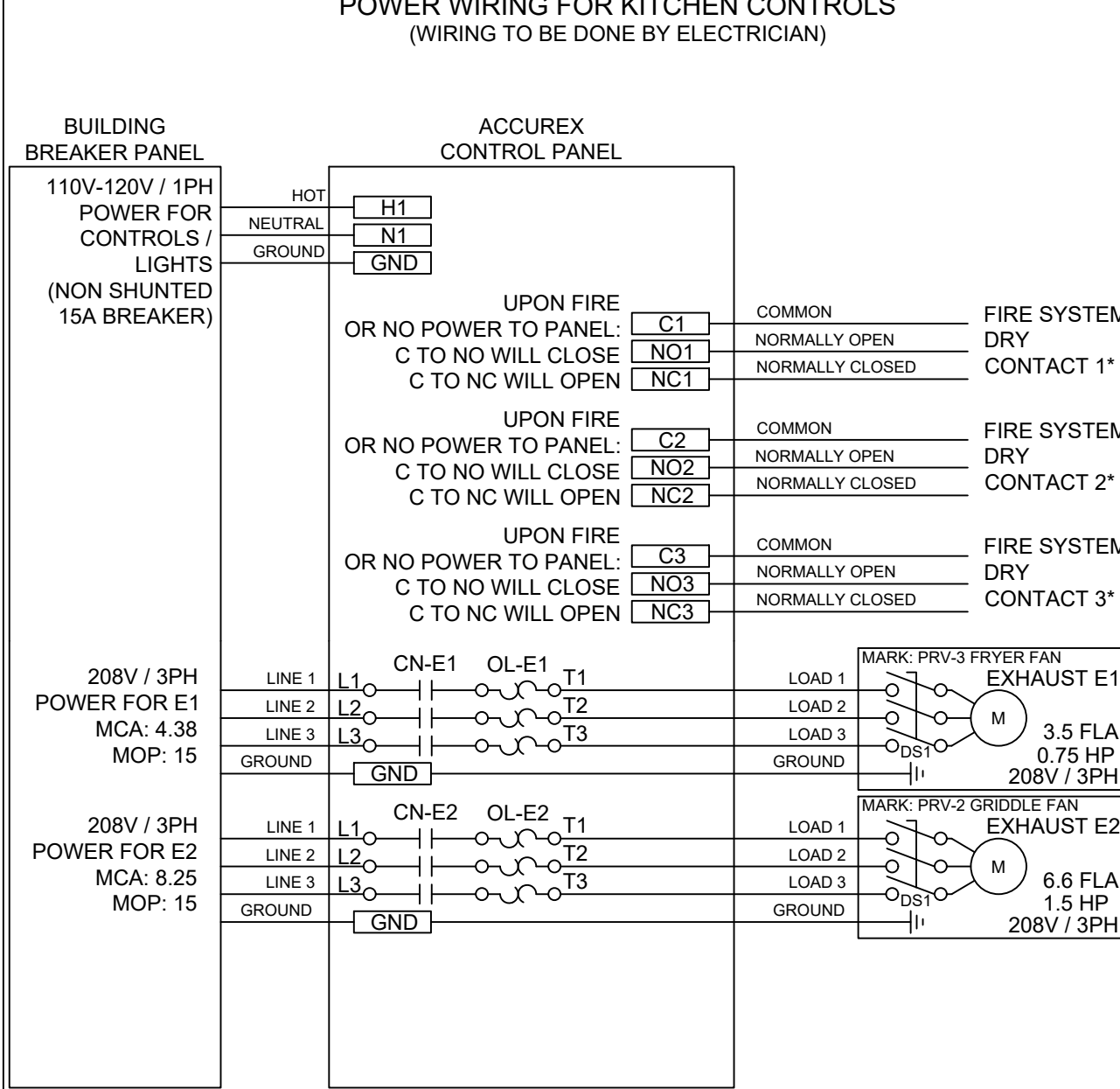
THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL ACCUREX AT 1-800-371-6858.

PRG VERSION: V2.00  
FIELD WIRED  
FACTORY SUPPLIED AND WIRED

**WIRING DIAGRAM CODE:**

**JOB NAME:**  
CULVERS-METRO L NEW CONTROLS

**MODEL:** XKC-CV-S-21-2-1-0  
**SERIAL NUMBER:**



EQUIPMENT SCHEDULE												
Ceiling Exhaust Fan												
City	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	Encr.	Motor RPM	Windings	FLA
	XCR-B80	75	0.125	855	0.01	10	0.0	115/601	OP	900	1	NA

**FOR TECHNICAL SUPPORT ON ACCUREX CONTROLS PLEASE CALL ACCUREX TECHNICAL SUPPORT: 1-800-371-6858**

**SECONDARY CONTACTS ARE:**  
AARON VAN KREY 715.841.8521  
TYLER SCHILLING 715.841.8749

Thank you for your interest in Accurex

**SUBMITTAL**  
Please return one approved print to your Greenheck Representative 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 \_\_\_\_\_

REV	DESCRIPTION	DATE

**ACCUREX**

CULVER'S MASTER TEMPLATE

SCALE: 1/24

C28805C

**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 evaluation 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.

**PROPRIETARY INFORMATION NOTICE**

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**NEW CULVER'S RESTAURANT**  
7600 Antioch Rd  
Paddock Lake, WI 53168  
County of KENOSHA

**OWNER:**  
Merch Network Five, LLC  
10484 Corporate Dr  
Pleasant Prairie, WI 53158  
Ashish Merchant  
312-404-8858

**OWNER:**  
OLLMANN ASSOCIATES ARCHITECTS, P.C.  
200 South State Street  
Belleville, Illinois 61008  
815-544-7790 Phone  
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**FAN SCHEDULE & DETAILS**

Date: 5-9-2023

2023-027

M204