

ALLURE MKE

789 N. JEFFERSON ST.
MILWAUKEE, WI 53202

HVAC SYSTEM
PERMIT SET DRAWINGS - JUNE 1, 2021

**WALTERS
SHEET METAL CORP**

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CUSTOMER INFO:

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DRAWN BY: J. SUKKERT

SCALE: N.T.S.

FILE SAVE AS: ALLURE MKE

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SHEET TITLE:

INDEX SHEET

DWG NUMBER:

M0.0

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SITE PLAN

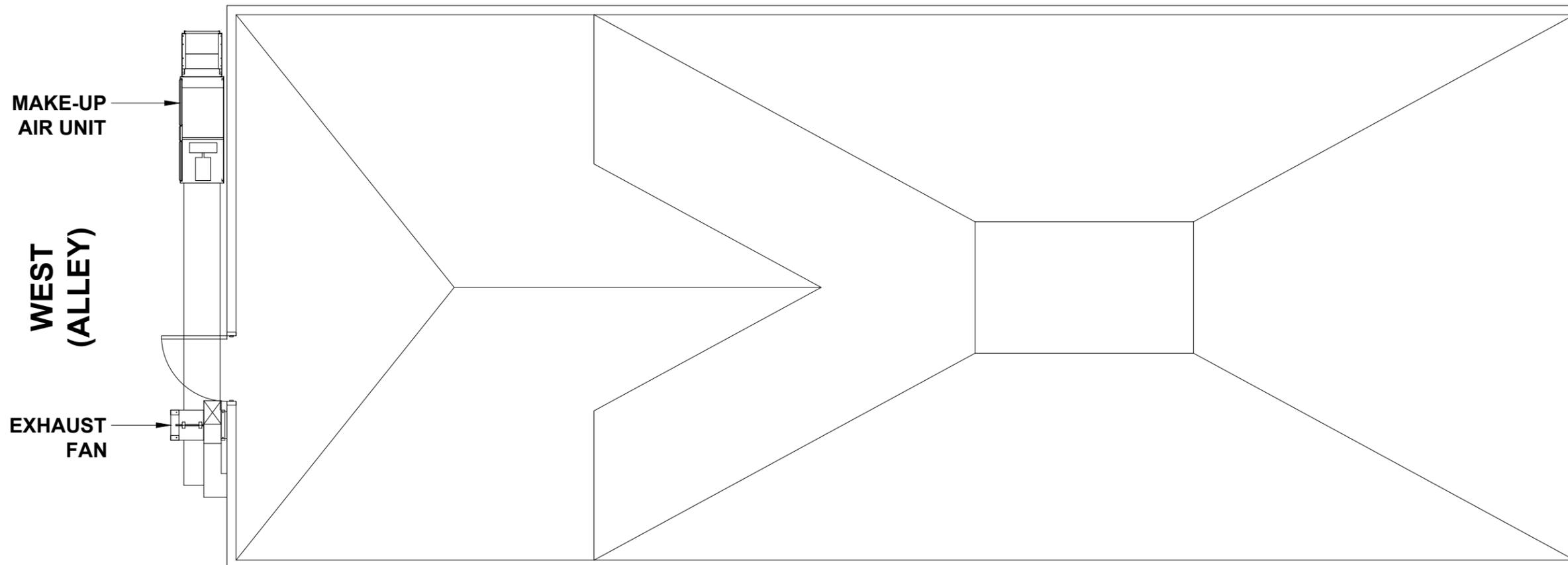
DWG NUMBER:

M1.0

NORTH

SOUTH

**EAST
(JEFFERSON ST)**



MAKE-UP
AIR UNIT

WEST
(ALLEY)

EXHAUST
FAN



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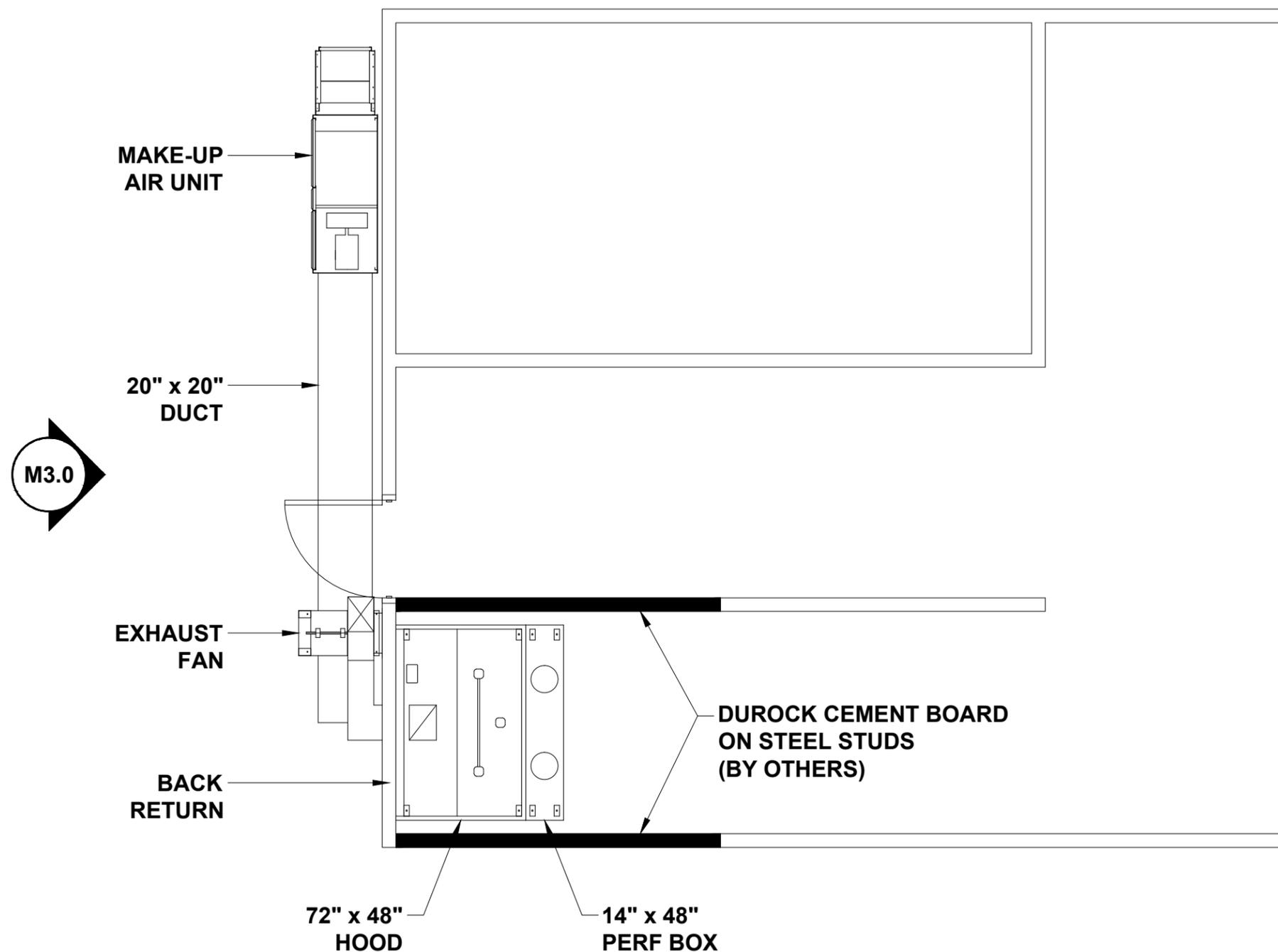
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**ENLARGED
FLOOR PLAN LAYOUT**

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M2.0

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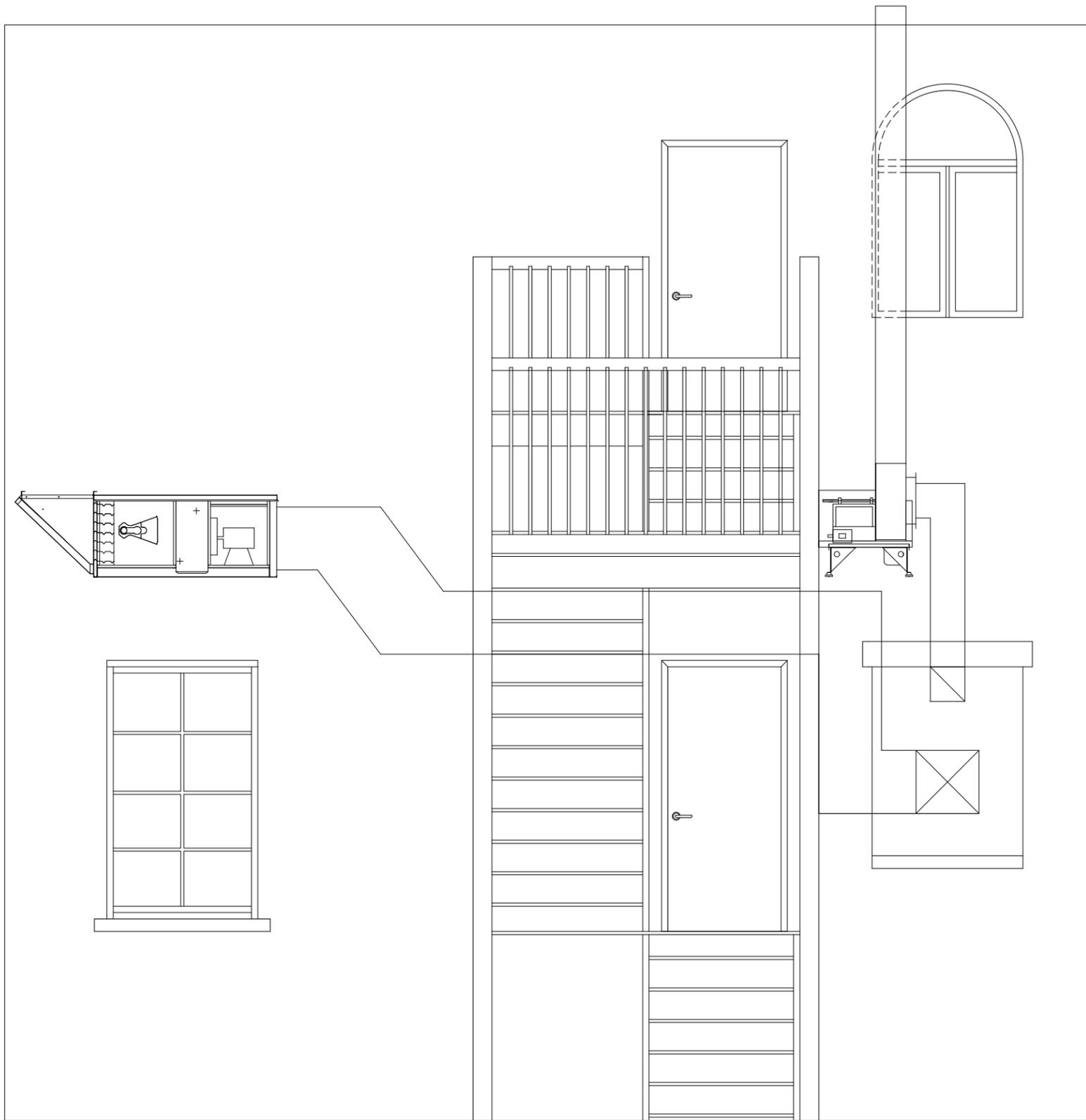
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ELEVATION LAYOUT

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M3.0

HOOD INFORMATION

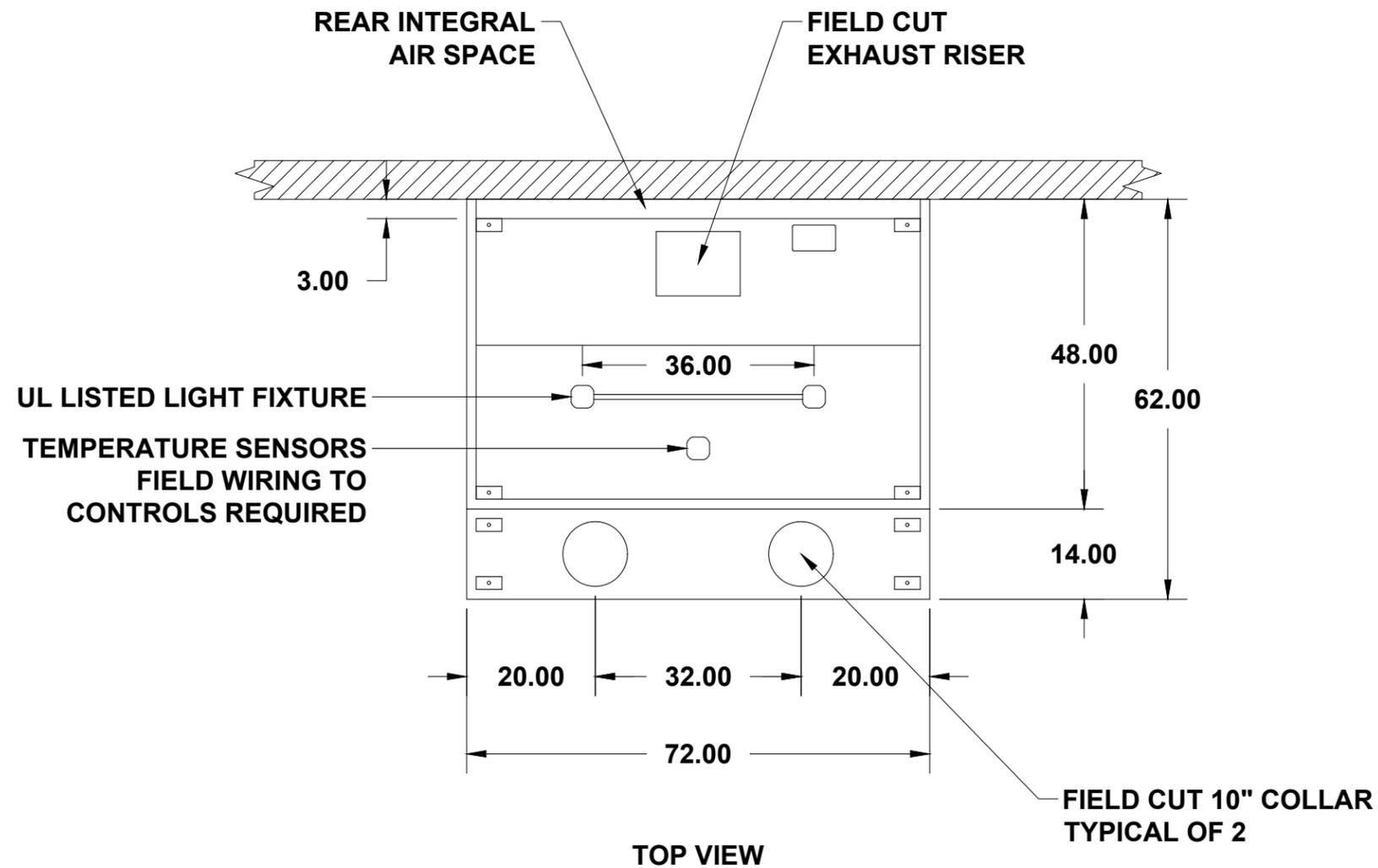
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST					SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION	
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM			
									WIDTH	LENGTH	DIA.	CFM					S.P.
1	HOOD 1	XBEW-72-S	72	48	24	430 SS WHERE EXPOSED	MEDIUM	1400	10	13		1400	0.429	1400		210	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		CONTROLS				
		L	H					TYPE	SIZE		MODEL	INTERFACE					
1	HOOD 1	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)		2	39.21	BAFFLE STAINLESS STEEL	2	16	20								

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	COLLARS								
				L	W	H			SUPPLIED	QTY		TYPE	MOUNTING	QTY	W	L	DIA.	CFM	S.P.	VEL.
				1	HOOD 1	FRONT			ASP	72		14	10	NO	NO	NO		1400	MUA	LOOSE



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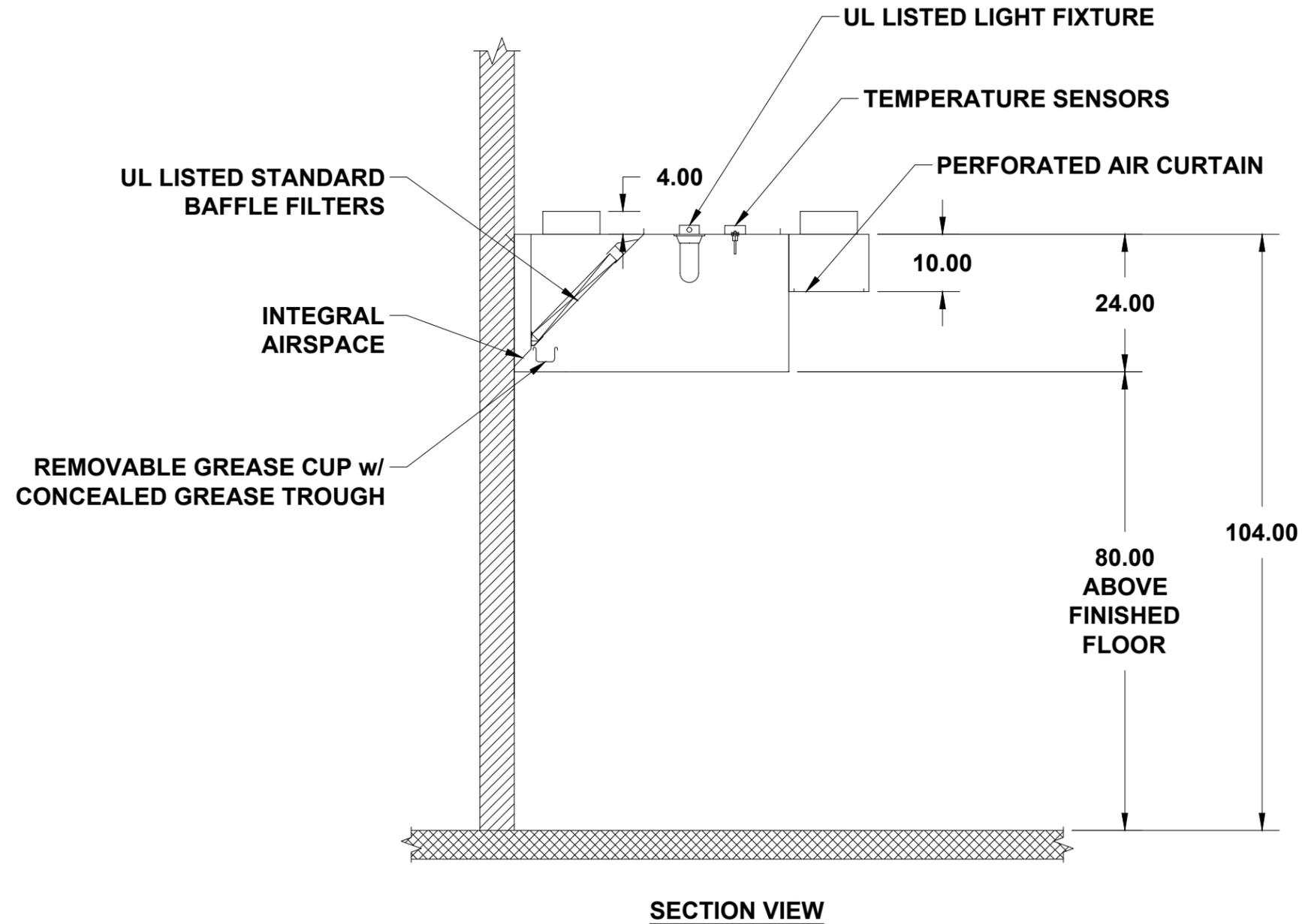
HOOD #1 DETAILS

DWG NUMBER:

M4.0

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- SHIPPED LOOSE EXHAUST COLLAR(S)
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



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HOOD #1 DETAILS

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M5.0

UNIVERSAL SINGLE WIDTH 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	EF-1	XUEF-12	1,400	1.1	1,834	0.51	159	0.75	230/60/1	OP	1725	1	6.9

*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"

EF-1 : SELECTED OPTIONS AND ACCESSORIES

FINISH - COATED

COATING - PERMATECTOR, CONCRETE GRAY-RAL 7023, FAN AND ATTACHED ACCESSORIES

SWITCH - NEMA-3R, TOGGLE, FOR INDOOR OR OUTDOOR USE, MOUNTED AND WIRED

DIRECT MOUNT ISOLATORS, ISOLATOR-RUBBER MOUNT, 0.50 INCH, BASE COATING - N/A

ROTATION - CW

BEARINGS - L(10) LIFE OF 80K HOURS

DISCHARGE POSITION - UB

UL/CUL-762 OUTDOOR - POWER VENT. FOR RESTAURANT EXHAUST APPLIANCES

ACCESS DOOR - BOLTED

DRAIN CONNECTION - 1" PIPE THREAD W/PLUG

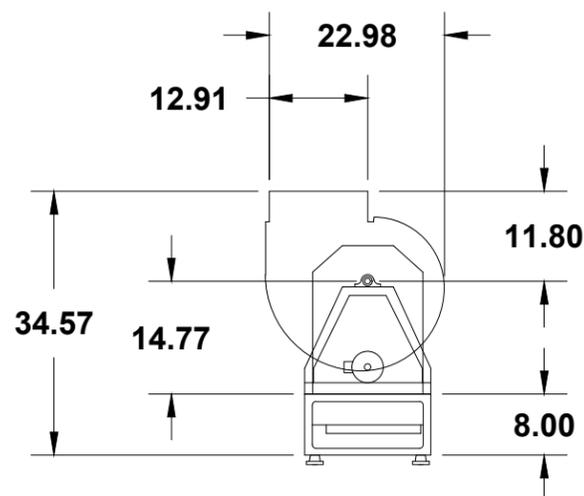
INLET CONNECTION, PUNCHED

OUTLET CONNECTION, SLIP FIT

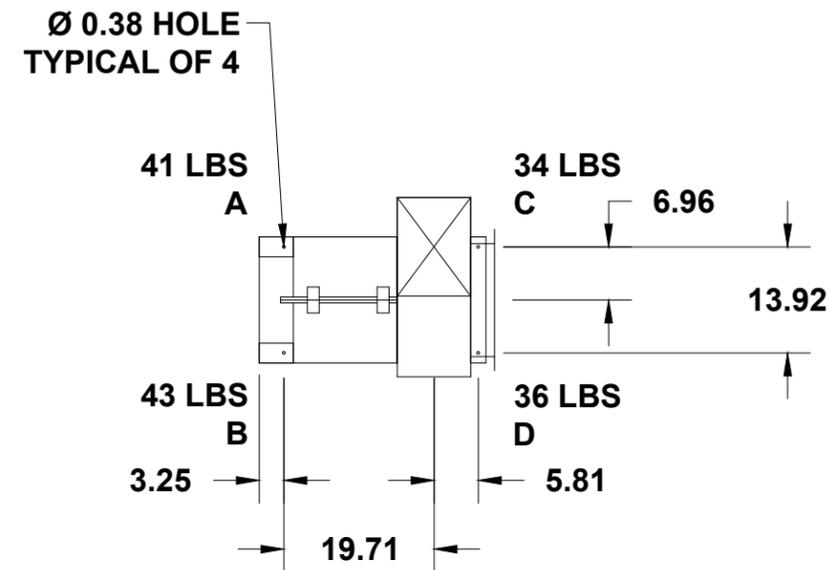
WEATHERHOOD - STEEL

SHAFT SEAL - HIGH TEMP

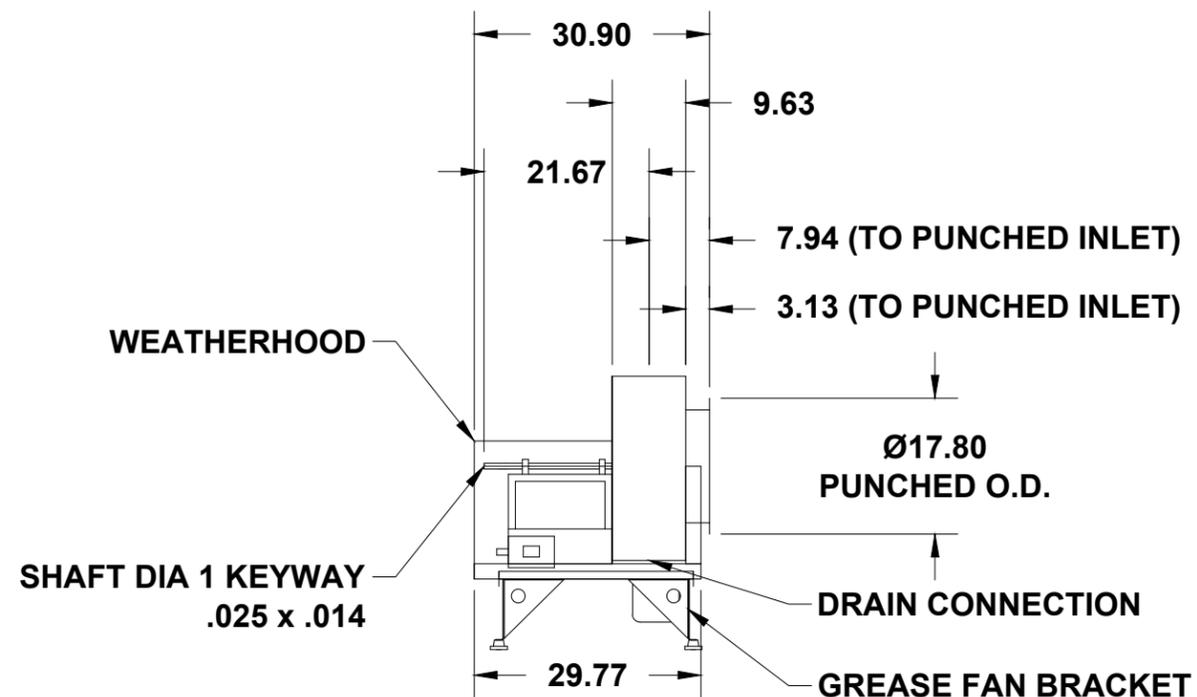
GREASE TRAP, FACTORY MOUNTED WITH BRACKET



SIDE VIEW



TOP VIEW



END VIEW

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EXHAUST FAN DETAILS

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M6.0

EQUIPMENT SCHEDULE										
Tempered Make-Up Air Unit							Mark: MUA-1			
Qty	Accurex Model	Volume	External SP	Total SP	FRPM	Operating Power	Weight			
1	XDG-P115-H05-VG	1,400 CFM	0.4 in. wg	1.361 in. wg	1550	0.68 hp	421 lb			
Motor Information										
Size	V/C/P	Enclosure	Motor with Shaft Grounding No	Motor RPM	Windings	MCA	MOP			
1 hp	230/60/1	ODP		1725	1	10.6	15			
Heating										
Type	Gas Type	Temperature			Energy			Connection Gas	Building Gas Pressure	Control Access
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency			
Direct Gas	Natural	-4.0 F	84.0 F	80.0 F	138.1 MBH	127.0 MBH	92%	3/4"	1/2 PSI	11a

NOTE:
 THE WEATHERHOOD AND FILTER SECTIONS OF THE MAKE-UP AIR UNIT ARE NOT SUPPORTED BY THE CURB. THIS IS BY DESIGN, IN ORDER TO HELP ALLEVIATE WATER INFILTRATION ISSUES. MUA UNIT SUPPORTS ARE SHIPPED LOOSE WITH UNIT.

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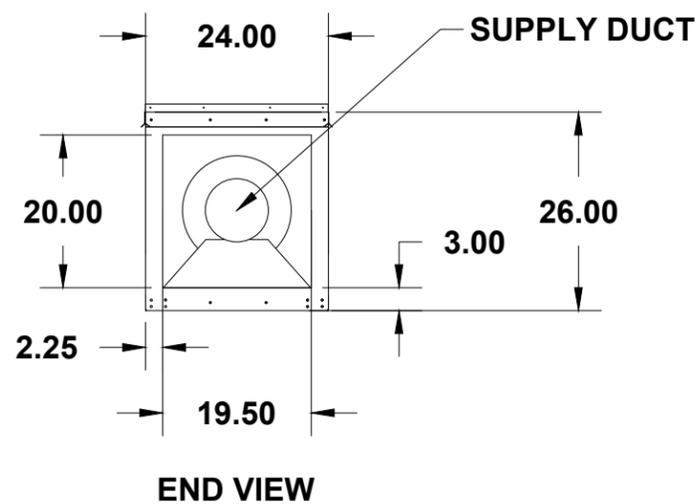
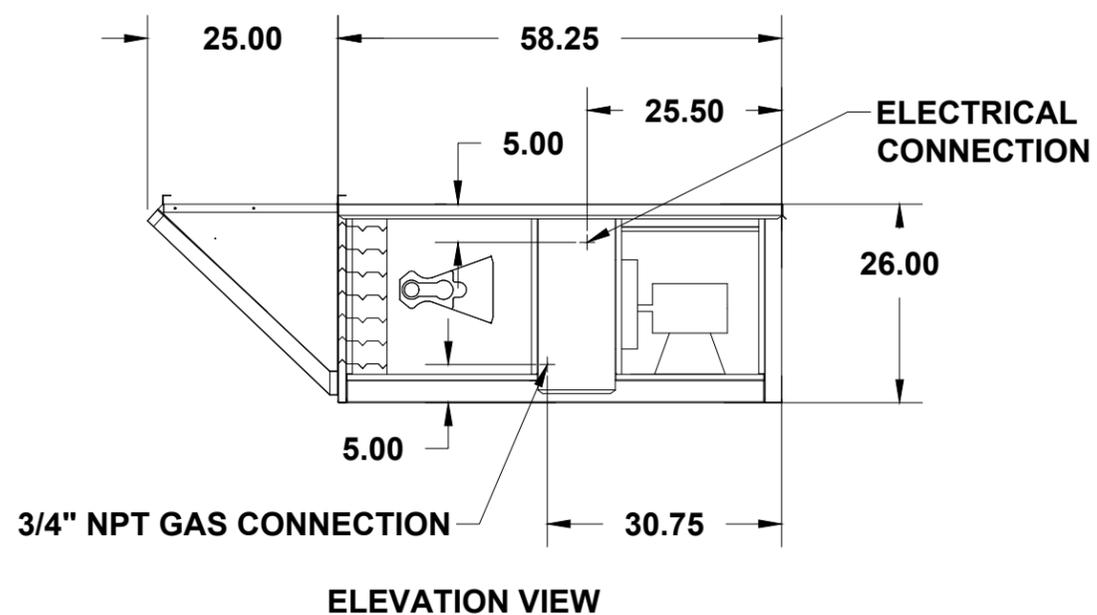
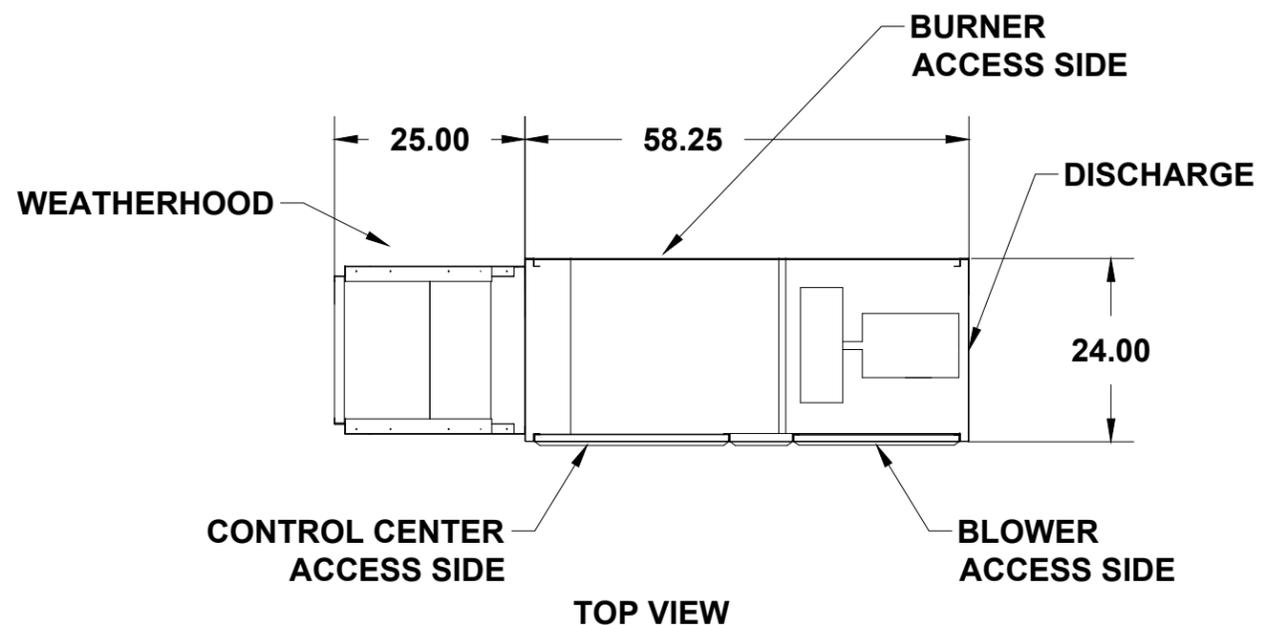
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PROJECT NOTES:

OPTIONS AND ACCESSORIES

- AIR FLOW ARRANGEMENT: OUTDOOR AIR ONLY
- WEATHERHOOD: ALUMINUM MESH, 16X20X2 - (2)
- DAMPER: INLET
- OUTDOOR AIR INTAKE POSITION: END
- DISCHARGE POSITION: END
- COATING: GALVANIZED
- INSULATION: DOUBLE WALL - HEAT SOURCE ON SUPPLY FAN CONTROL: VARI-GREEN ECM
- VARI-GREEN CONTROL: DIAL ON MOTOR
- ACCESS SIDE: RIGHT-HAND CONTROL CENTER
- HEAT INLET AIR SENSOR
- REMOTE PANEL: INDUSTRIAL (SHIPS LOSE)
- UNIT ENABLE SWITCH: SUMMER / OFF / WINTER
- SWITCHES: PANEL FACE
- TEMP ADJUSTMENT: PANEL FACE
- UNIT CONTROLS: REMOTE PANEL
- TEMPERATURE CONTROL: DISCHARGE
- DIRECT GAS OPTIONS/ACCESSORIES
- APPROVALS: ETL
- FM COMPLIANT



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MAKE-UP AIR UNIT DETAILS
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M7.0

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PROJECT NOTES:

IMC 507.1.1 - SYSTEM IS DESIGNED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATIONS OCCUR. THE ACTIVATION OF THE EXHAUST FAN SHALL OCCUR THROUGH AN INTERLOCK WITH THE COOKING APPLIANCES, BY MEANS OF HEAT SENSORS WITHIN THE KITCHEN HOOD.

IMC 506.3.11.2 - GREASE DUCTS TO BE COMPLETELY COVERED ON ALL SIDES WITH A MATERIAL CLASSIFIED AND LABELED AS GREASE DUCT WRAPS MEETING ASTM E 2336.

IMC/SPS 364.0313 (1) - SYSTEM TO BE BALANCED UPON INSTALLATION. THE PERSON OR AGENCY RESPONSIBLE FOR BALANCING OF THE VENTILATING SYSTEM SHALL DOCUMENT IN WRITING THE AMOUNT OF OUTDOOR AIR BEING PROVIDED AND DISTRIBUTED FOR THE BUILDING OCCUPANTS, EXHAUSTS, AND ANY OTHER SPECIALTY VENTILATION. THE DOCUMENT SHALL BE RETAINED AT THE SITE AND SHALL BE MADE AVAILABLE TO THE DEPARTMENT UPON REQUEST.

IMC 306.5/IFGC 306.5 - PERMANENT ACCESS FOR EQUIPMENT INSTALLED ON ROOFS OR ELEVATED STRUCTURES WITH EQUIPMENT LOCATED AT A HEIGHT EXCEEDING 16FT. PERMANENT LADDERS USED TO PROVIDE REQUIRED ACCESS SHALL MEET THE REQUIREMENTS OF THIS SECTION. ACCESS SHALL NOT REQUIRE CLIMBING OVER OBSTRUCTIONS GREATER THAN 30 INCHES, OR WALKING ON ROOFS HAVING A SLOPE GREATER THAN 4/12.

IBC 904.12 - AUTOMATIC WET CHEMICAL FIRE SUPPRESSION SYSTEM PROVIDED FOR HOODS WITH MANUAL ACTIVATION WITH ACTIVATION DEVICE LOCATED AT OR NEAR A MEANS OF EGRESS FROM THE COOKING AREA A MINIMUM OF 10FT AND A MAXIMUM OF 20FT FROM THE KITCHEN EXHAUST SYSTEM. THE MANUAL ACTIVATION DEVICE SHALL BE LOCATED A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES ABOVE THE FLOOR AND IDENTIFY THE HAZARD PROTECTED. THE MAXIMUM ACTIVATION FORCE FOR THE MANUAL ACTIVATION SHALL NOT EXCEED 40lbs, WITH MAXIMUM MOVEMENT OF 14 INCHES TO ACTUATE THE FIRE SUPPRESSION SYSTEM. ALL OF THE ABOVE ITEMS ARE EXEMPTED IF THE SPRINKLER SYSTEM IS AUTOMATIC. THE ACTIVATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL AND ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND ELECTRICAL SUPPLY RESET SHALL BE MANUAL.

IMC 506.3.2/SPS 364.0506 (2) - PROVIDE TYPE I KITCHEN EXHAUST DUCTS LEADING FROM HOODS WITH WELDED LIQUID TIGHT JOINTS, SEAMS AND PENETRATIONS UNLESS A LISTED EXCEPTION IS MET.

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TYPICAL NOTES

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M8.0

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IMC 506.3.7 - PROVIDE TYPE I COMMERCIAL KITCHEN EXHAUST SYSTEMS WITH A MINIMUM SLOPE OF 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL TOWARD THE HOOD OR AN APPROVED GREASE RESERVOIR. WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE MUST A HAVE A MINIMUM SLOPE OF 1 UNIT VERTICAL IN 12 UNITS HORIZONTAL.

IMC 506.3.8 & 9 - DUCT CLEAN-OUT OPENINGS FOR COMMERCIAL KITCHEN GREASE EXHAUST DUCTS OF SIZE AND LOCATIONS AS REQUIRED BY THIS CODE SECTION. ADDITIONALLY, A CLEANOUT SHALL BE PROVIDED FOR BOTH THE INLET SIDE AND OUTLET SIDE OF ANY INLINE FAN. SUCH CLEANOUTS ARE TO BE LOCATED WITHIN 3FT OF THE FAN DUCT CONNECTIONS.

IMC 603.9 - DUCTWORK SHALL BE SEALED AT ALL JOINTS, TRANSVERSE AND LONGITUDINAL SEAMS AND CONNECTIONS IN DUCTWORK USING LISTED PRODUCTS AS REFERENCED IN THE CODE. THE REFERENCED DUCTWORK INCLUDES ALL SUPPLY, EXHAUST AND RETURN DUCTS. THIS IS APPLICABLE TO ALL DUCTWORK OTHER THAN THAT USED AS PART OF THE KITCHEN HOOD EXHAUST DUCT.

IMC 506.3.12 - GREASE DUCT FIRE RESISTIVE ACCESS OPENINGS PROVIDED WITH APPROVED SIGNAGE WITH THE WORDING "ACCESS PANEL. DO NOT OBSTRUCT".

IMC 506.3.13.1 - PROVIDE A TYPE I KITCHEN EXHAUST OUTLET, WHICH TERMINATES ABOVE THE ROOF, WITH A DISCHARGE A MINIMUM OF 40" ABOVE THE ROOF SURFACE.

IMC 506.5.3 - UPBLAST FANS ASSOCIATED WITH TYPE I COMMERCIAL KITCHEN HOODS SHALL BE HINGED AND SUPPLIED WITH A FLEXIBLE WEATHER PROOF ELECTRICAL CABLE TO PERMIT INSPECTION AND CLEANING. THE DUCTWORK SHALL EXTEND A MINIMUM OF 18" ABOVE THE ROOF SURFACES.

IMC 507.4.1 - ALL TYPE I AND II COMMERCIAL KITCHEN HOODS SHALL OVERHANG OR EXTEND A HORIZONTAL DISTANCE OF NOT LESS THEN A 6" BEYOND THE EDGE OF THE COOKING SURFACE ON ALL OPEN SIDES.

IBC 906/IFC 904.12.5 - PROVIDE PORTABLE K-RATED FIRE EXTINGUISHERS WITHIN 30FT TRAVEL DISTANCE OF COMMERCIAL TYPE COOKING EQUIPMENT.

IMC/SPS 364.0313 (3) - ALL OPERATING MANUALS CONCERNING THE HVAC EQUIPMENT AND ITS MAINTENANCE SHALL BE PRESENTED TO THE OWNER AND SHALL BE MADE AVAILABLE TO A DEPARTMENT REPRESENTATIVE UPON REQUEST.

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EXHAUST HOOD NOTES

EXHAUST RATE IS SIZED IN ACCORDANCE WITH IMC-2015 SEC. 507.1 WHICH ALLOWS SIZING THROUGH THE HOODS' UL-710 LISTING AND LABELING. EACH EXHAUST HOOD IS UNDERWRITERS LABORATORIES (UL) LISTED AND LABELED. EXHAUST RATE IS SIZED TO MEET OR EXCEED THE U.L. TESTING AND LISTING LEVELS.

THE MODEL XBEW-72-S IS UL LISTED FOR AN EXHAUST RATE OF 233 CFM/LINEAR FOOT OF HOOD.
TOTAL HOOD LENGTH = 6' - 0"
6FT x 233 CFM/FT = 1,400 CFM. ACTUAL EXHAUST = 1,400 CFM

100% OF EXHAUSTED AIR IS SUPPLIED BACK INTO KITCHEN AREA THROUGH HOOD MOUNTED PERFORATED PLENUMS AND DIFFUSERS. DIRECT FIRED MAKE-UP AIR UNIT PROVIDED TO TEMPER AIR TO A MIN. OF 70 DEG. F. SEE SUPPLY UNIT NOTES.

FIRE SYSTEM BY OTHERS.
EVIDENCE OF APPROVAL TO BE AVAILABLE AT JOBSITE.

SUPPLY UNIT NOTES

MAKE-UP AIR IS PROVIDED THROUGH A CAPTIVE-AIR MODEL XUEF-12 DIRECT FIRED MAKE-UP AIR UNIT.

UNIT IS U.L. LISTED AND LABELED.
UNIT OUTPUT = 1,400 CFM. AND 138.1 MBH.
CALC = 1,400 CFM x 1.08 x 90 DEGREE RISE = 138.1 MBH.
UNIT OUTPUT = 1,400 CFM. AND 138.1 MBH.

FLAME SAFETY, AIR FLOW, HIGH TEMP SAFETY DEVICES INCLUDED.
DISCHARGE DUCTSTAT PROVIDED.

UNIT INTERLOCK WITH EXHAUST FANS BY JOBSITE ELECTRICIAN.

AIR INTAKE IS A MINIMUM OF 10' - 0" FROM ALL EXHAUSTS.

AIR BALANCE

- EXHAUST FAN = 1,400 CFM
+ MAKE-UP AIR UNIT = 1,400 CFM

= BALANCE = 0 CFM

DUCT SPECS

EXHAUST TO BE 16GA BLACK IRON WITH ALL SEAMS AND JOINTS LIQUID TIGHT. ASTM E-2336 2-LAYER UL-LISTED GREASE DUCT INSULATION PROVIDED WHERE WITH 18" OF COMBUSTIBLES.

HIGH TEMP. GASKETED CLEAN-OUTS PROVIDED AT EACH CHANGE IN DUCT DIRECTION PER IMC-2015. SUPPLY DUCT TO BE GALVANIZED AND FLEX WITH INSULATION PROVIDED IN UNHEATED SPACES.

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