

CAPTIVE WIRE
National Accounts

Kroger - L747 Elizabethtown KY - KVS
Elizabethtown, KY, 42701

DATE: 4/28/2025
DWG.#: 7497091
DRAWN BY: [Name]
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 9

DUCTWORK #1 PARTS - JOB#7497091 DOUBLE WALL DUCT - 1										
TAG	PART #	QTY	ZONE	COVERED BY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION	
HI-C1	DV162WRISER-2R-S	1000				-0294	7.31	0.00	1 DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER RISE SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.	
HI-C1	DV162WRISER-2R-S	1000				-0294	7.31	0.00	1 DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER RISE SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.	
P1	DV162DVALT-2R-S	1000				-00993	07.05	1057.89	1 DOUBLE WALL DUCT - 18" INNER DUCT, 23" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.	
P2	DV162DVALT-2R-S	1000				-0096	07.36	1057.89	1 DOUBLE WALL DUCT - 18" INNER DUCT, 23" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.	
P3	DV162DVALT-2R-S	1000				-04449	08.71	1057.89	1 DOUBLE WALL DUCT ECCENTRIC - 18" X 16" ENDING ADAPTER - 17" TALL - 2 LAYERS REDUCED CLEARANCE - 16" X 20" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.	
P4	DV162DVALT-2R-S	1000				-03773	09.30	1718.87	1 DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P5	DV162DVALT-2R-S	1000				-04449	08.71	1057.89	1 DOUBLE WALL DUCT ECCENTRIC - 18" X 16" ENDING ADAPTER - 17" TALL - 2 LAYERS REDUCED CLEARANCE - 16" X 20" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.	
P6	DV162DVALT-2R-S	1000				-00045	13.88	1057.89	1 DOUBLE WALL DUCT - 18" INNER DUCT, 11' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.	
P7	DV162DVALT-2R-S	1000				6.53			1 DUCT - HORIZONTAL, SADDLE SUPPORT KIT, USED WITH 16" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DOWNSHAFT, & HARDWARE BAG 4.	
P8	DV162DVALT-2R-S	1000				-0096	04.33	1057.89	1 DOUBLE WALL DUCT - 18" INNER DUCT, 23" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.	
P9	DV162DVALT-2R-S	1000				-00993	07.05	1057.89	1 DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 16" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.	
P10	DV162DVALT-2R-S	1000				18.57			1 DOUBLE WALL DUCT - 18" INNER TEE DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P11	DV162DVALT-2R-S	1000				-00081	07.12	1718.87	1 DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' X MAX LENGTH = 845" / ADJUSTMENT = 20" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.	
P12	DV162DVALT-2R-S	1000				-00134	03.34	1718.87	1 DUCT - HORIZONTAL, SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DOWNSHAFT, & HARDWARE BAG 4.	
P13	DV162DVALT-2R-S	1000				8.01			1 DUCT - HORIZONTAL, SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DOWNSHAFT, & HARDWARE BAG 4.	
P14	DV162DVALT-2R-S	1000				-00008	09.30	1718.87	1 DOUBLE WALL DUCT - 18" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P15	DV162DVALT-2R-S	1000				01.48			1 DOUBLE WALL DUCT - 18" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P16	DV162DVALT-2R-S	1000				-00473	09.60	1718.87	1 DOUBLE WALL DUCT - 18" INNER 30 DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P17	DV162DVALT-2R-S	1000				-00256	09.60	1718.87	1 DOUBLE WALL DUCT - 18" INNER 30 DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.	
P18	DV162DVALT-2R-S	1000				-00057	08.31	1718.87	1 DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' X MAX LENGTH = 845" / ADJUSTMENT = 20" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.	
P19	DV162DVALT-2R-S	1000				-00083	08.92	1718.87	1 DOUBLE WALL DUCT - 18" INNER DUCT, 20.5' LONG - 2 LAYERS REDUCED CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. - USED WITH TRANSITION PLATE.	
P20	DV162DVALT-2R-S	1000				9.00	1718.87		1 DUCT TO CURVE TRANSITION 3/4" DOWN TURN, 90 DEGREE, 18" DIA. 30 GA ALUMINIZED USED ON ROOF/A / ROOF/A & SLOPE / A / ROOF/A. TRANSITION PLATE IS 15 3/4" DESIGNED FOR USE WITH EXHAUST FAN.	
P21	DV162DVALT-2R-S	1000				-09967	0.00		1 DUCT - HORIZONTAL, SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DOWNSHAFT, & HARDWARE BAG 4.	
P22	DV162DVALT-2R-S	1000				7.31			1 DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER RISE SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.	
P23	DV162DVALT-2R-S	1000				7.31			1 DOUBLE WALL RISER COVER - USED ON 18" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER RISE SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.	
P24	DV162DVALT-2R-S	1000				0.80			5 DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.	
P25	DV162DVALT-2R-S	1000				6.44			5 DUCT - 18" DUCT - 16" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE	
P26	DV162DVALT-2R-S	1000				7.96			5 DUCT - 18" DUCT - 20" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE	
TOTAL WEIGHT										

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/8" PER LINEAR FOOT TOWARDS THE HEAD OR AN APPROVED GRAVE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/8" PER LINEAR FOOT.

HORIZONTAL		VERTICAL		
DUCT DIAMETER	SUPPORT SPACING (FT)	TYPE	WALL SUPPORT (FT)	CURB FLOOR SUPPORT (FT)
5"	7'			
6"	7'			
8"	7'	DR & 2R HT (5'-16")	20'	24'
10"	7'	DR (8")	18'	24'
12"	7'	DR & 32 (5'-24")	18'	24'
14"	7'	32 (25'-36")	18'	20'
16"	7'			
18"	7'			
20"	5'			
22"	5'			
24"	5'			
26"	5'			
28"	5'			
30"	5'			
32"	5'			
34"	5'			
36"	5'			

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Elizabethtown, KY, 42701

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MASTER DRAWING

SHEET NO. 10

CAPSTONE
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ARCHITECT

SEAL

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1939
5/12/2025

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A NEW STORE:

KROGER L747

1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

PROJECT NO: 5-12-2025
DATE: CONSTRUCTION SET

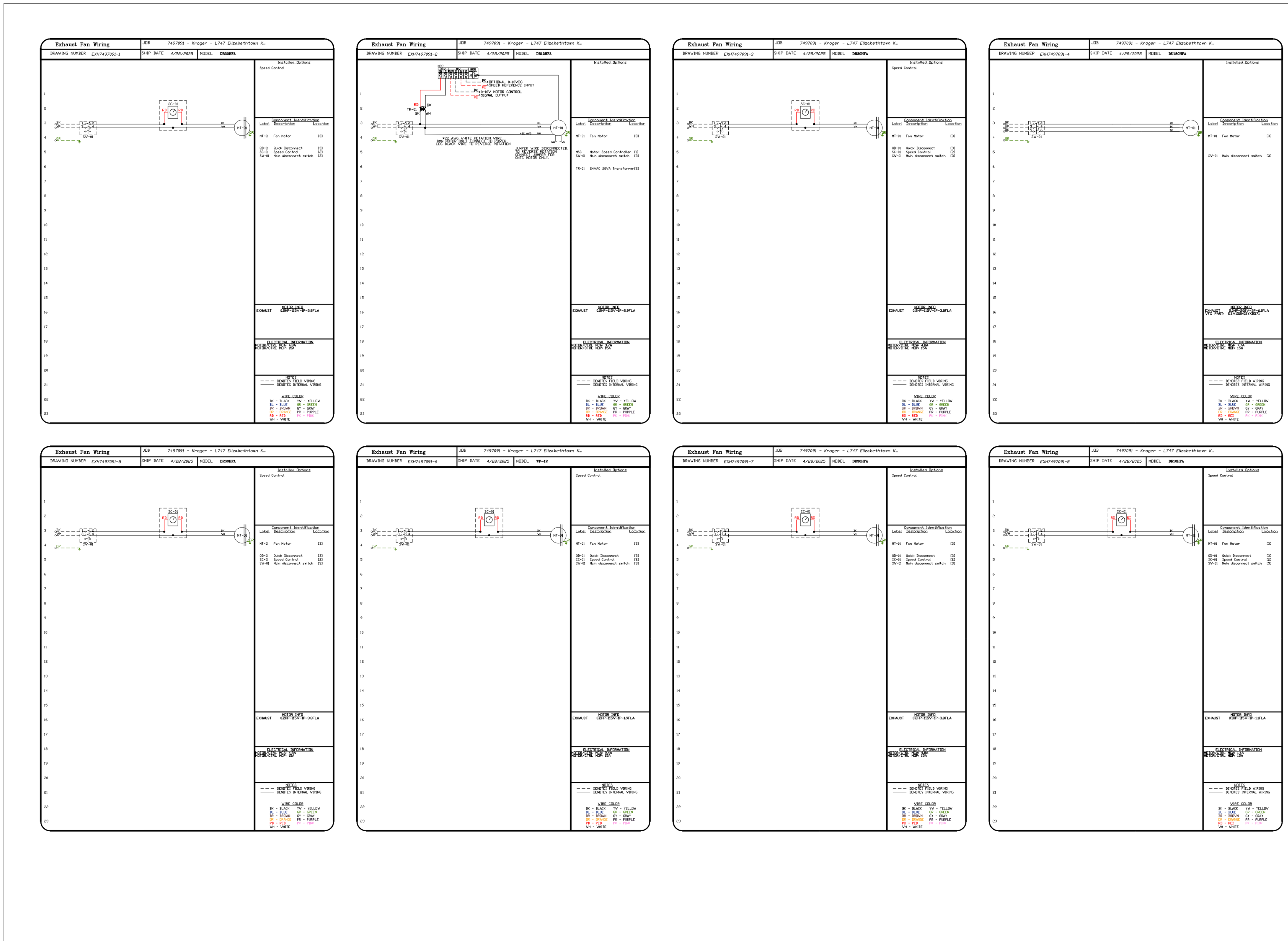
HVAC SECTIONS AND DETAILS

SHEET NO. 9

M3.1.9

2" REFERENCE LINE

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REVISIONS

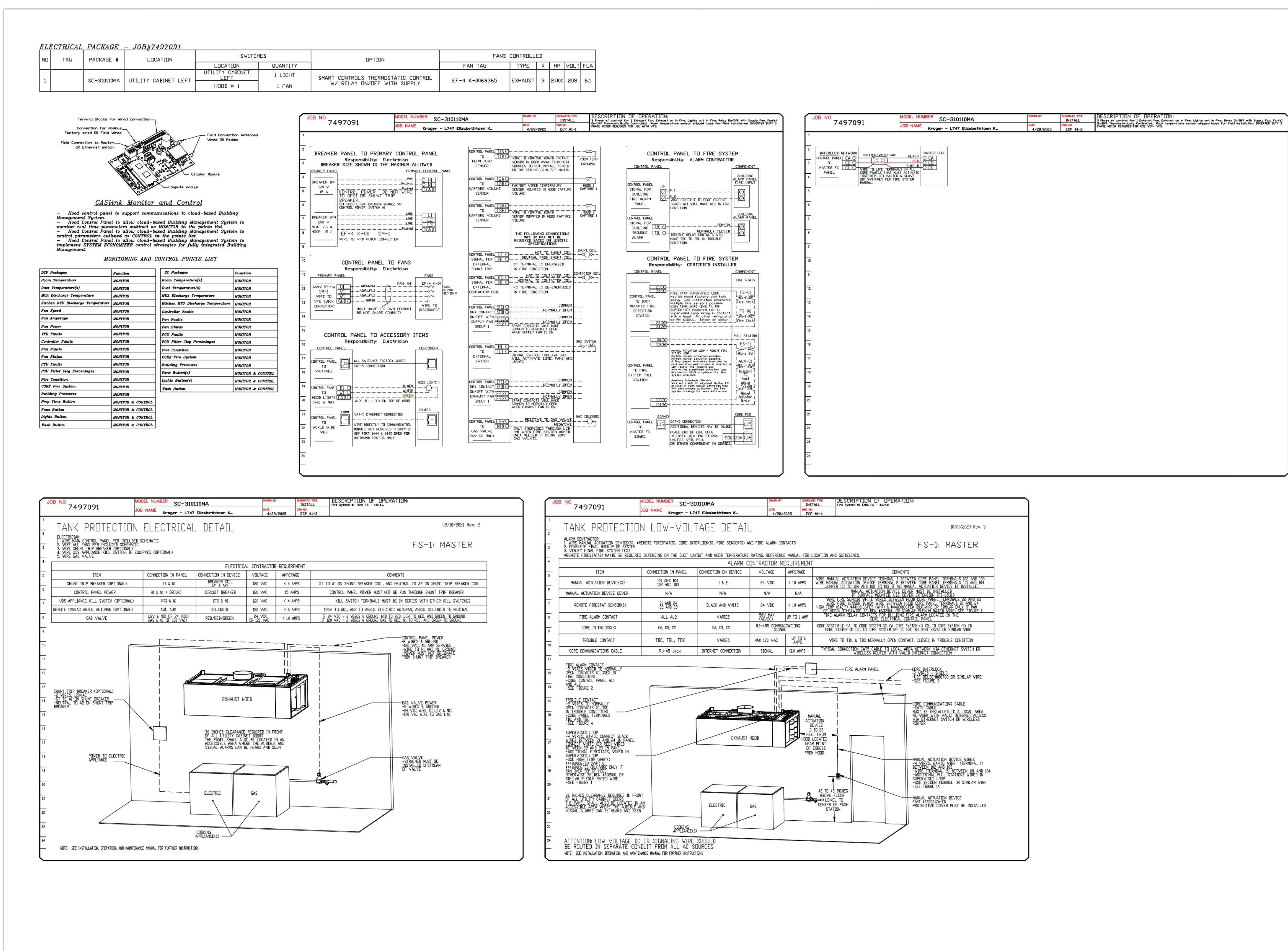
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www.captivewire.com

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SHEET NO.
7



REVISIONS

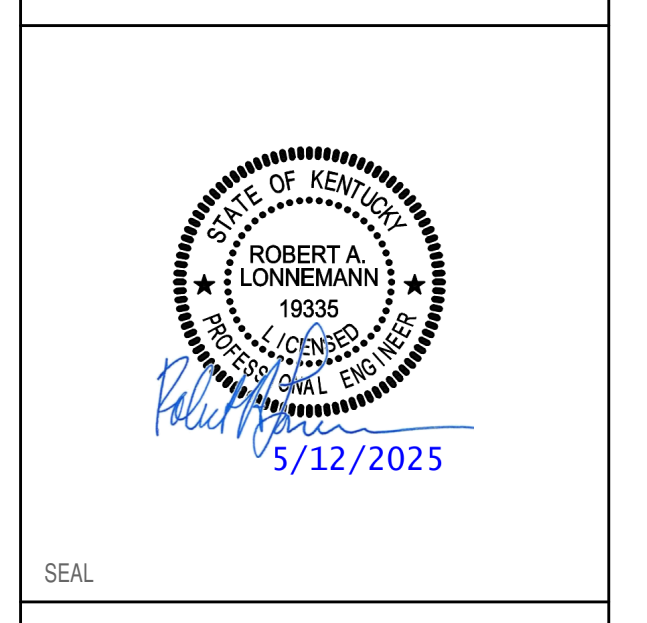
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SHEET NO.
8



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A NEW STORE:

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1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

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HVAC SECTIONS AND DETAILS

SHEET NO:
M3.1.8

PROJECT NO: CPS2024-130.4
LAD. ENG. FILE:
DRAWN BY: TDS
CHK'D BY: KSL

2" REFERENCE LINE

EXHAUST FAN INFORMATION - JOB#7497091

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 K-0002355	1	DR30HFA	CAPTIVEAIRE	750	0.500	1431	DDP	0.250	0.1650	1	115	3.8		65	9.9
2	EF-2 PNET42845	1	DR12HFA	CAPTIVEAIRE	300	0.300	1071	TEAD-ECM	0.250	0.0760	1	115	2.9		55	5.3
3	EF-3 K-0002355	1	DR30HFA	CAPTIVEAIRE	800	0.500	1176	DDP	0.250	0.0920	1	115	3.8		65	6.7
4	EF-4 K-0069365	1	DU180HFA	CAPTIVEAIRE	2400	1.250	1113	DDP, PREMIUM	2.000	1.0420	3	208	6.1	554 FPM	164	12.5
5	EF-5 K-0002355	1	DR30HFA	CAPTIVEAIRE	800	0.400	1429	DDP	0.250	0.1640	1	115	3.8		65	9.8
6	EF-6 PNET42845	1	WP-12	CAPTIVEAIRE	800	0.120	1149	DDP	0.180	0.0330	1	115	1.9		55	N/A
7	EF-7 K-0002355	1	DR30HFA	CAPTIVEAIRE	700	0.400	1323	DDP	0.250	0.1280	1	115	3.8		65	8.5
8	EF-8 K-0002358	1	DR10HFA	CAPTIVEAIRE	200	0.300	1258	DDP	0.060	0.0380	1	115	1.1		49	3.4
9	EF-9 K-0002372	1	DU33HFA	CAPTIVEAIRE	600	0.500	1220	DDP	0.333	0.1200	1	115	5.6	297 FPM	79	10.4
10	EF-10 K-0002372	1	DU33HFA	CAPTIVEAIRE	600	0.500	1220	DDP	0.333	0.1200	1	115	5.6	297 FPM	79	10.4

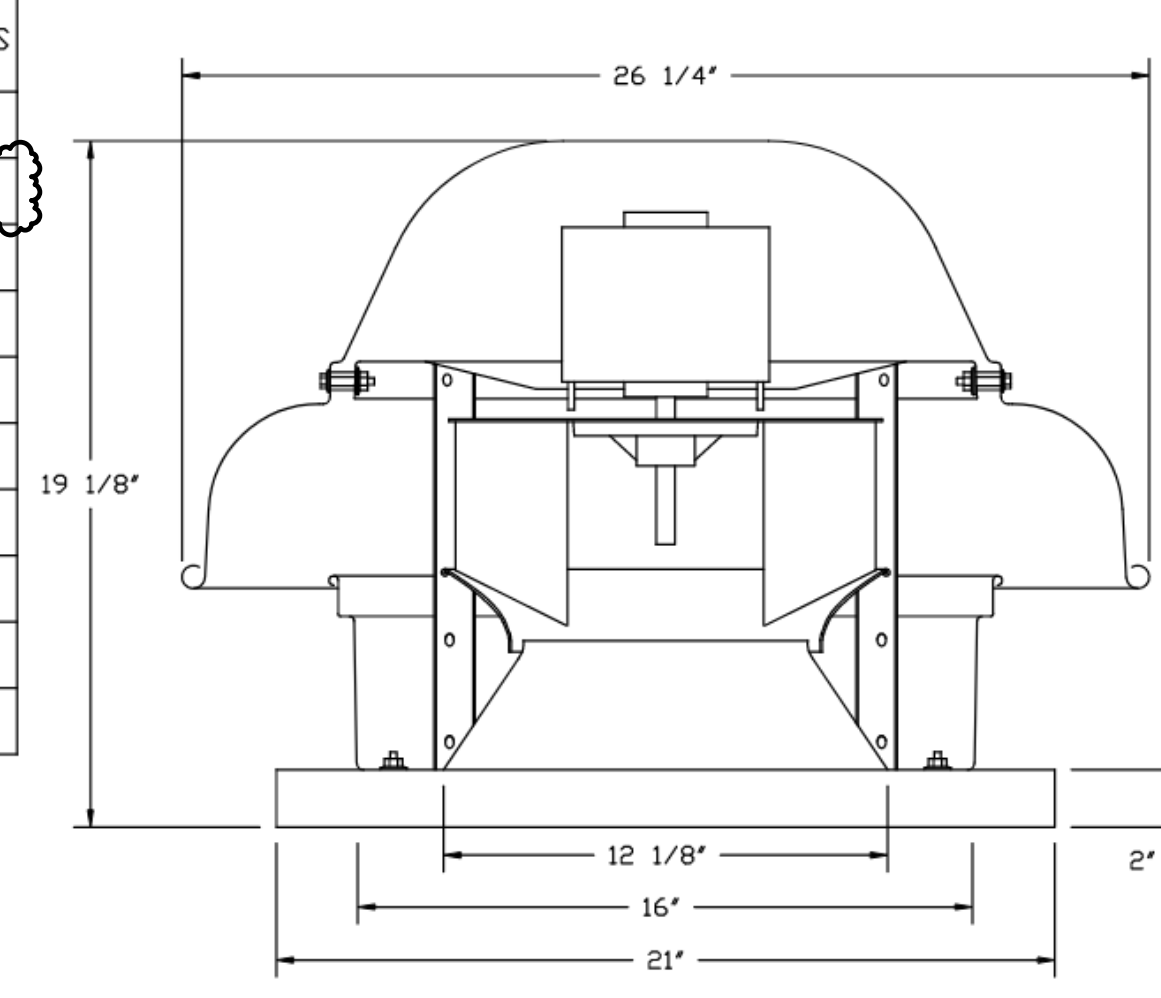
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	1 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
2	EF-2 PNET42845	1	1 12-BDD DAMPER
		1	ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC-(TELCD), CCW ROTATION
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
3	EF-3 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	1 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
4	EF-4 K-0069365	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
5	EF-5 K-0002355	1	1 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
6	EF-6 PNET42845	1	WALL PROP 10/12 WALL COLLAR (SET OF 8)
		1	THERMOSTAT CONTROL
		1	FRONT GUARD SCREEN FOR WP-10/12
		1	5 YEAR PARTS WARRANTY
7	EF-7 K-0002355	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	1 15-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
8	EF-8 K-0002358	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	1 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
9	EF-9 K-0002372	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
10	EF-10 K-0002372	1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

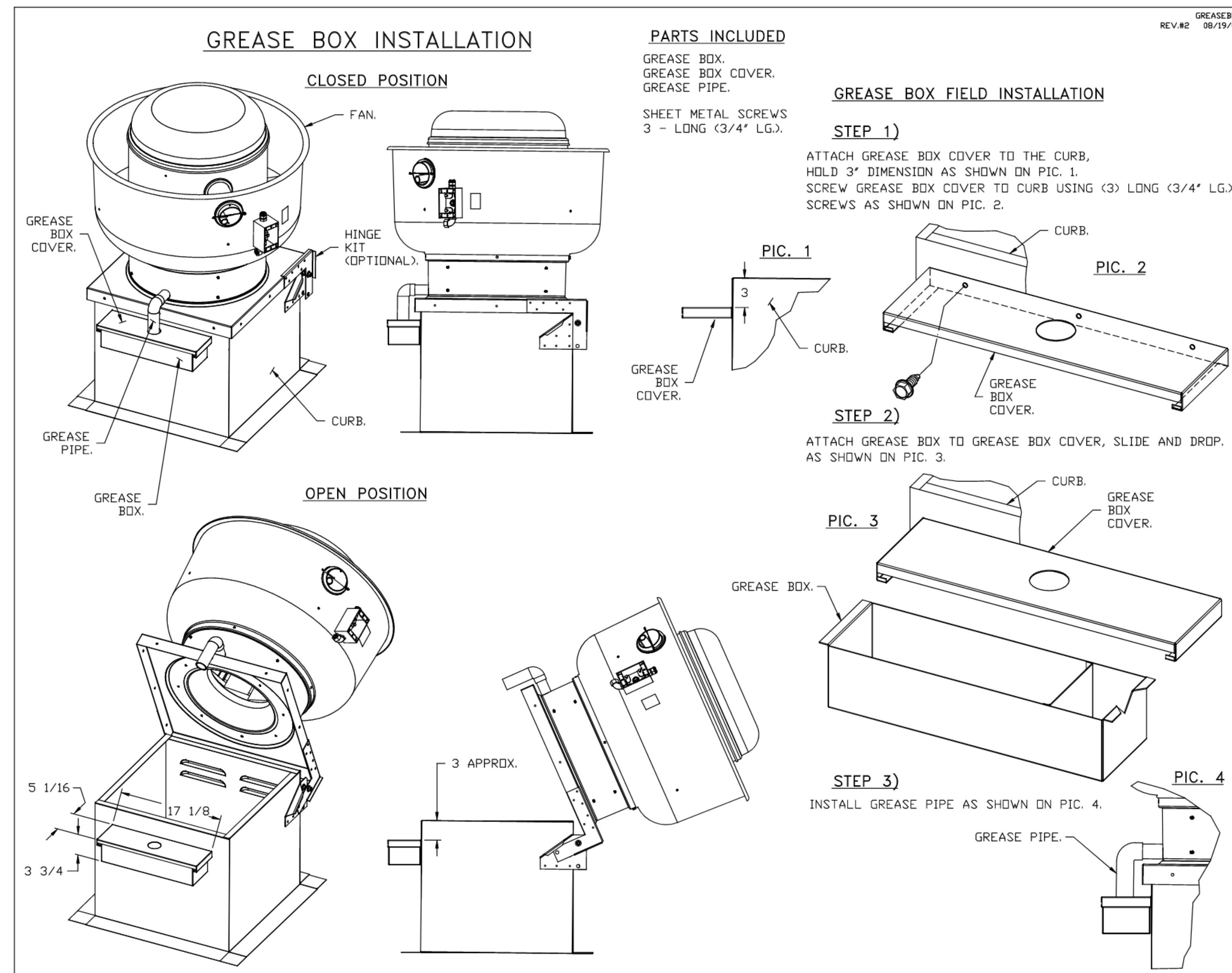
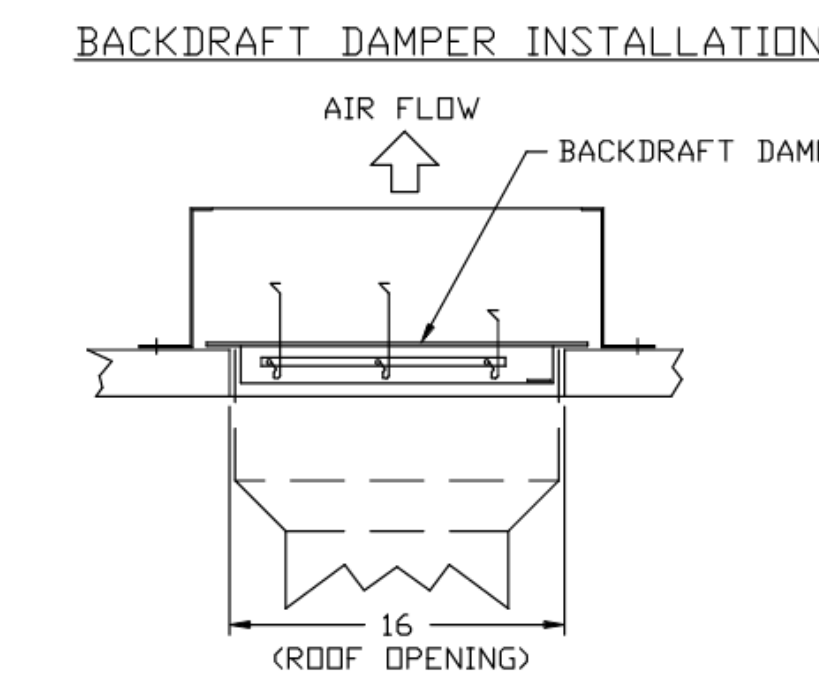
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1 K-0002355		YES					
2	EF-2 PNET42845		YES					
3	EF-3 K-0002355		YES					
4	EF-4 K-0069365	YES						
5	EF-5 K-0002355		YES					
6	EF-6 PNET42845							
7	EF-7 K-0002355		YES					
8	EF-8 K-0002358		YES					
9	EF-9 K-0002372	YES						
10	EF-10 K-0002372	YES						

FANS #1 (EF-1 K-0002355), #3 (EF-3 K-0002355), #5 (EF-5 K-0002355), #7 (EF-7 K-0002355) - DR30HFA EXHAUST FAN



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

- OPTIONS:**
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
 - 1 15-BDD DAMPER.
 - 2 YEAR PARTS WARRANTY.



*NOTE: UL 705 INSTALL.

REVISIONS

DESCRIPTION	DATE

CAPTIVE

National Accounts

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Elizabethtown, KY, 42701

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SHEET NO. 4

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ARCHITECT

STATE OF KENTUCKY
ROBERT A. LONNEMANN
1938
REGISTERED PROFESSIONAL ENGINEER
8/8/2025

SEAL

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HVAC SECTIONS AND DETAILS

SHEET NO. 4

PROJECT NO: CPS2024-130.4
LAD. ENG. FILE:
DRAWN BY: TDS
CHK'D BY: KSL

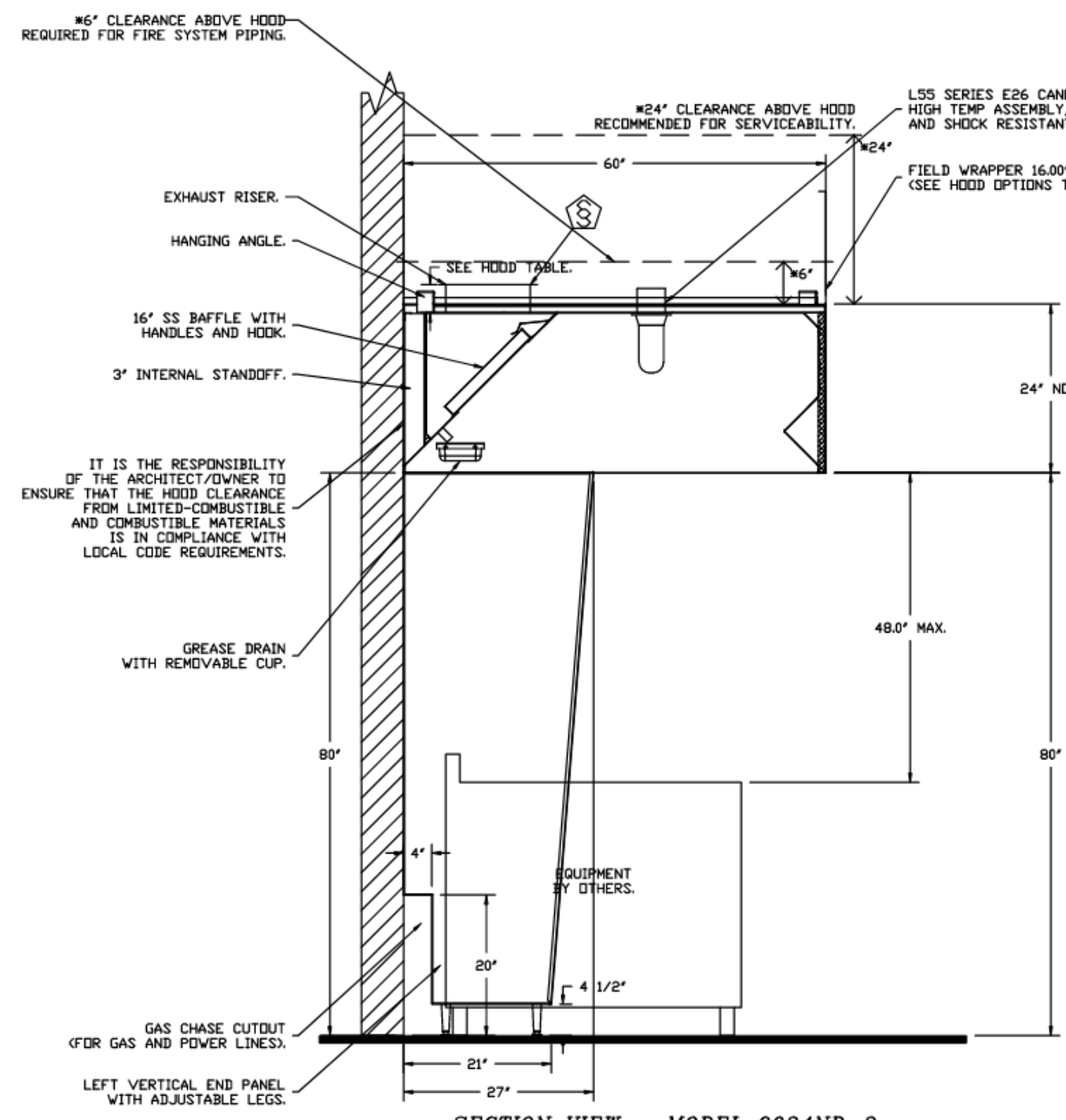
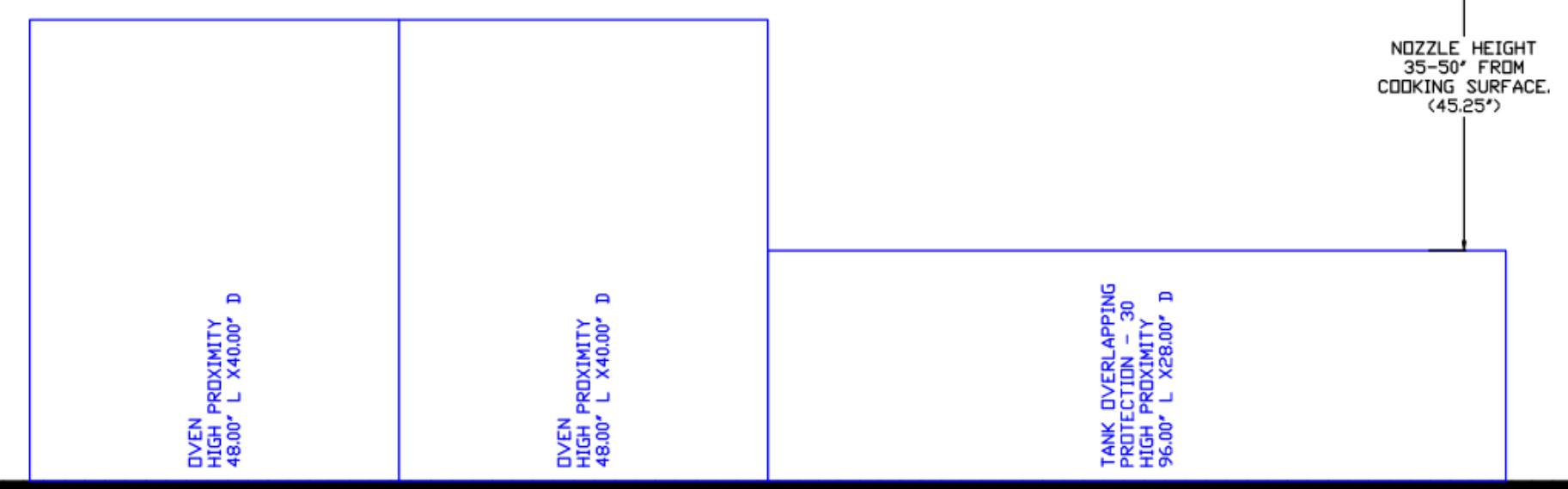
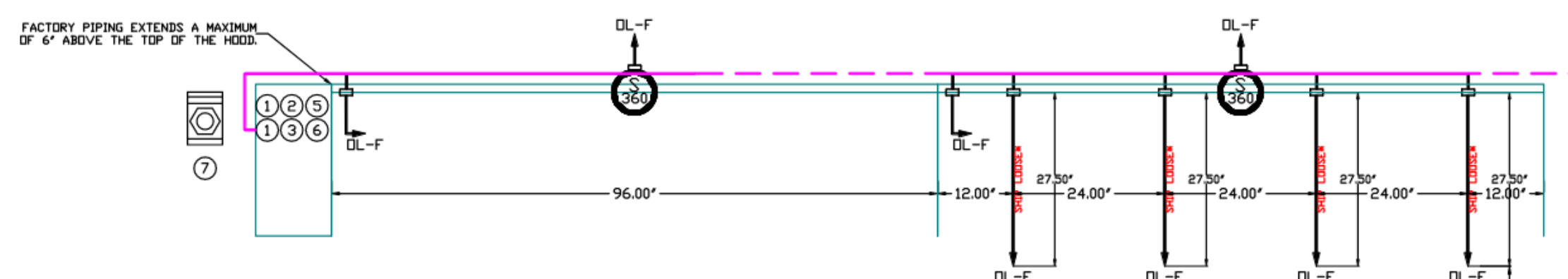
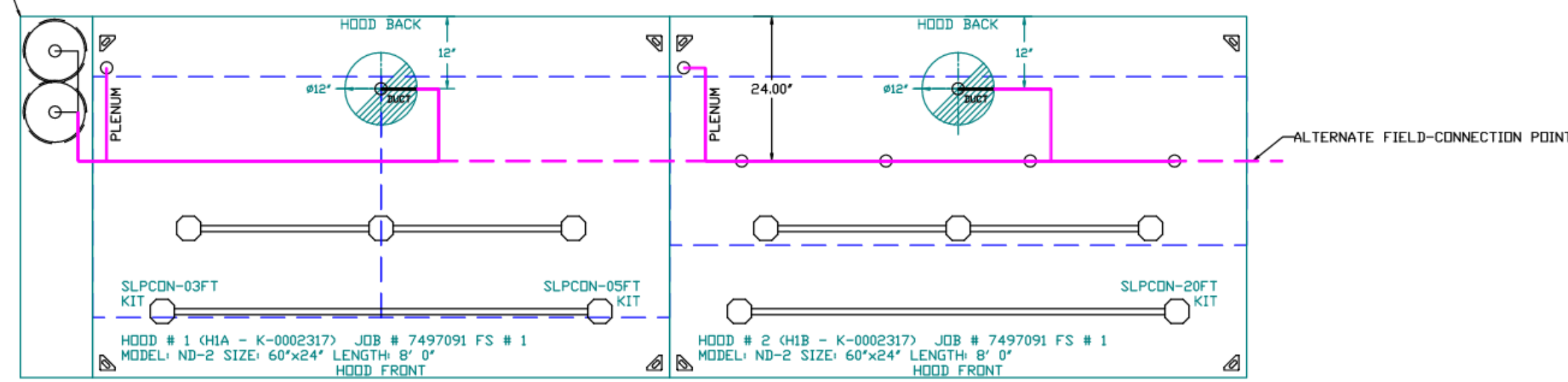
M3.1.6

SHEET NO. 4

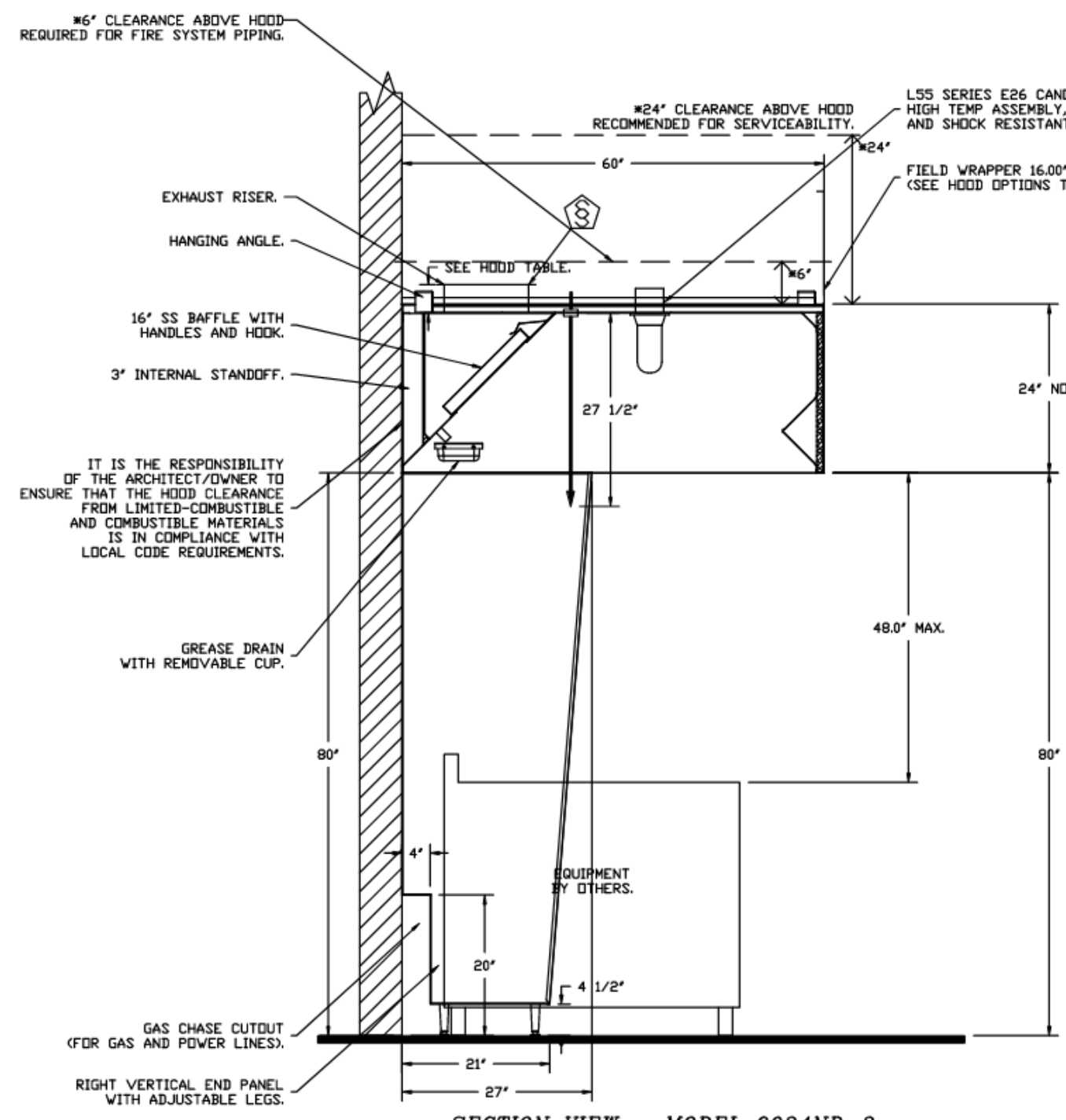
FIRE SYSTEM INFORMATION - JOB#7497091

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN TP	INSTALLATION	
						SYSTEM	LOCATION OR HOOD
1		TANK FS	4.0/4.0	40	36	FIRE CABINET LEFT	LEFT, HOOD 1

THIS SYSTEM REQUIRES A MINIMUM OF 7 FT OF CLEARANCE ABOVE THE HOOD. THE HOOD MUST BE INSTALLED AT LEAST 12 INCHES ABOVE THE HOOD. THE HOOD MUST BE INSTALLED AT LEAST 12 INCHES ABOVE THE HOOD. THE HOOD MUST BE INSTALLED AT LEAST 12 INCHES ABOVE THE HOOD.



SECTION VIEW - MODEL 6024ND-2 HOOD #1



SECTION VIEW - MODEL 6024ND-2 HOOD #2

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
- BELLOSCAPE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE
- 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 # 7497091
- JOB NAME: KROGER - L747 ELIZABETHTOWN KY.
- SYSTEM SIZE: TANK-SP-2 DESIGN F.P. 36, MAXIMUM F.P. 40.
- HOOD # 1 8' 0.00' LONG X 60' WIDE X 24" HIGH.
- RISER # 1 SIZE 1/2" DIA.
- HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
- HOOD # 2 8' 0.00' LONG X 60' WIDE X 24" HIGH.
- RISER # 1 SIZE 1/2" DIA.
- HOOD # 2 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.

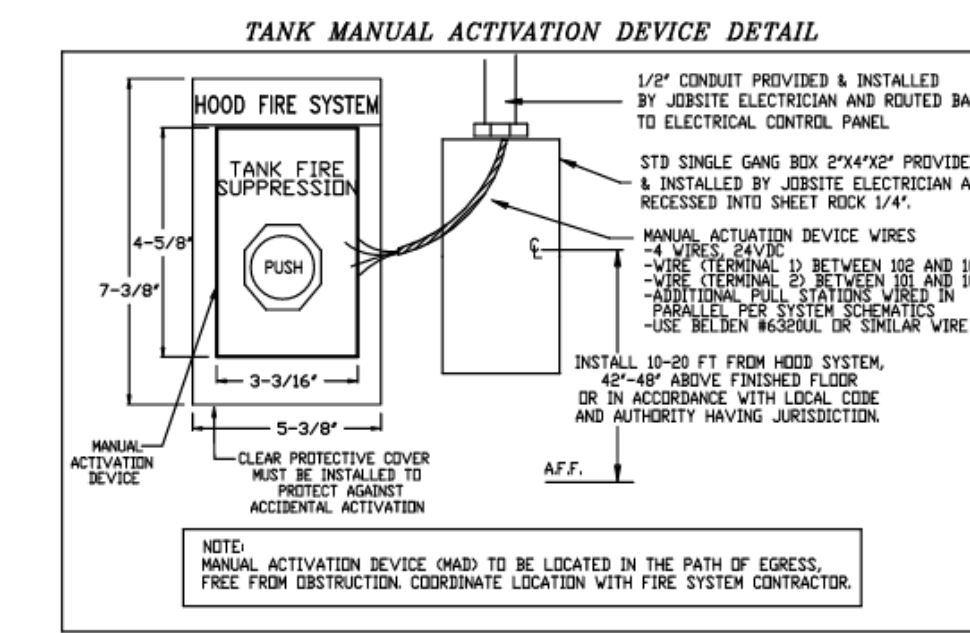
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	40
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK
- 2 PRIMARY ACTUATOR RELEASE
- 3 SECONDARY ACTUATOR RELEASE
- 4 PRESSURE SUPERVISION SWITCH
- 5 PRIMARY HOSE ASSEMBLY
- 6 SECONDARY HOSE ASSEMBLY
- 7 REMOTE MANUAL ACTUATION DEVICE

INCLUDES FIELD INSTALLATION AND HOODUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLER ONLY IN THE LOCATION NOTES ABOVE. TWO SITE VISITS ONLY ONE VISIT TO SET PULL STATION & SYSTEM HOODUP 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 1/2" PIPING AND SYSTEM TEST.

EXCLUDES UNION LABOR & PREVAILING WAGE CLAUSE & WAGES WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOODUP AND CONNECTING, HANGING OF THE CABINET, SHORT TRIP HANGERS (EXTINGUISHERS), ON-SITE RE-PIPPING DUE TO EQUIPMENT LAYOUT CHANGES.

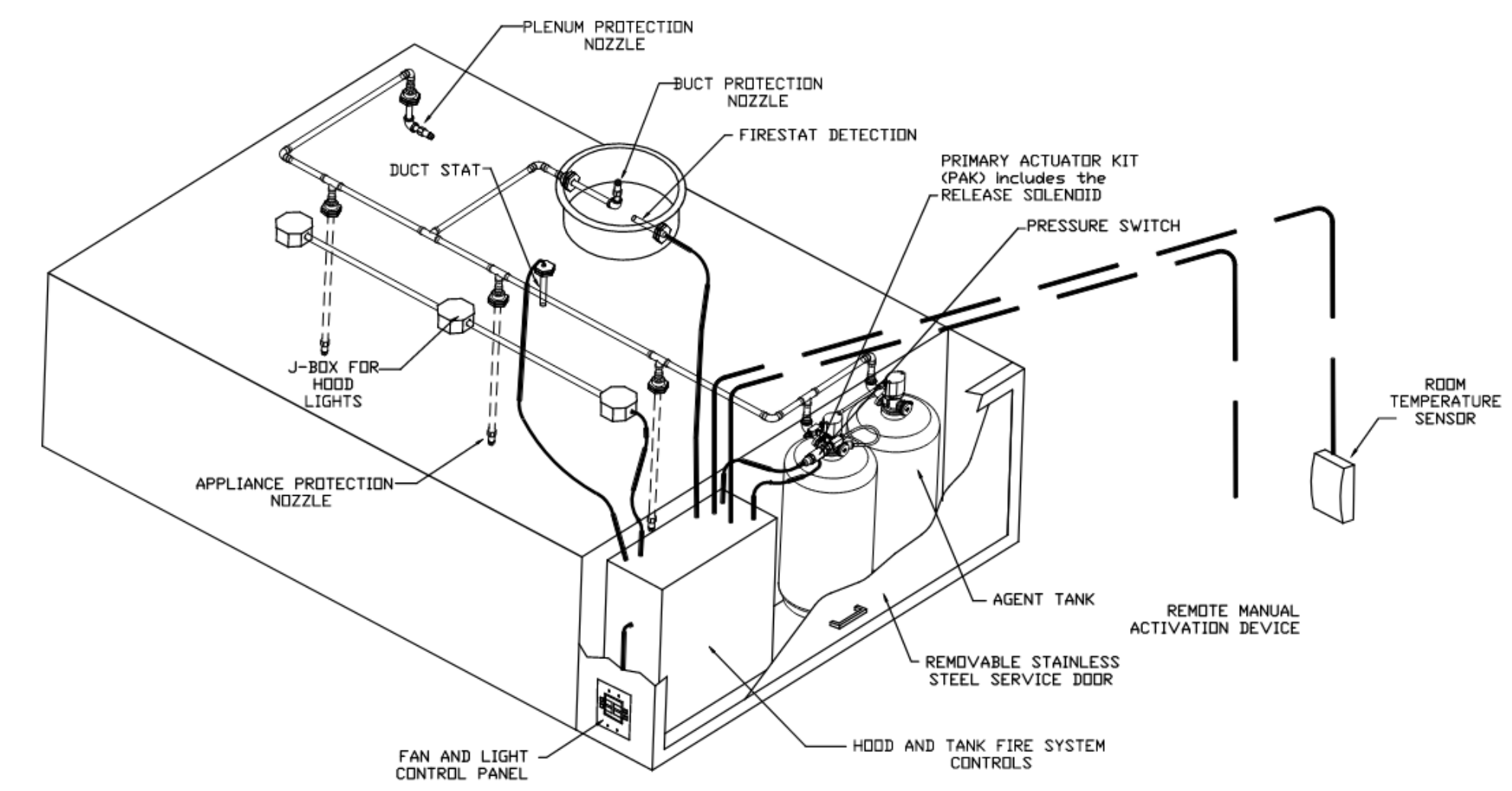
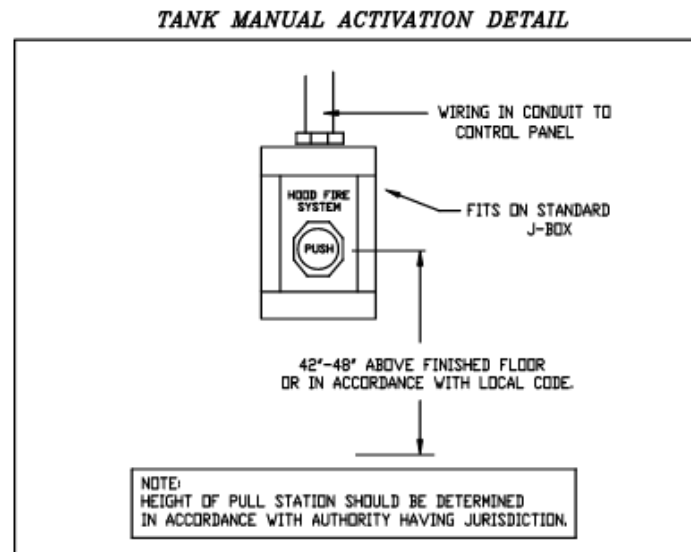


THE TANK WET CHEMICAL FIRE SUPPRESSION SYSTEM IS UL & ULC LISTED IN ACCORDANCE WITH UL300, UL1264, ULCDP-CIS64, UNDER FILE# EK27953, ETL LISTED UNDER REPORT 10456027SSAT-003.

THE MICROPROCESSOR-BASED CONTROL BOARD IS ETL LISTED TO UL864 AND CAN/ULC-5527-11.

THE TANK WET CHEMICAL FIRE SUPPRESSION SYSTEM IS ACCEPTABLE FOR USE IN NEW YORK CITY, IS APPROVED PER FDNY CDA #5970.

MEETS THE REQUIREMENTS OF NFPA 96 AND NFPA 17A.



TYPICAL HOOD and TANK FIRE SYSTEM LAYOUT
THIS DETAIL IS GENERAL AND IS NOT INTENDED TO COVER ALL POSSIBLE ACCEPTABLE SCENARIOS. REFER TO PROJECT DRAWINGS/SCHEMATICS FOR DETAILS.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

National Accounts
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4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2410 FAX: 9192275948 EMAIL: ngt15@capfire.com

Kroger - L747 Elizabethtown KY - KVS
Elizabethtown, KY, 42701

DATE: 4/28/2025
DWG.#: 7497091
DRAWN BY:
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO. 3

CAPSTONE
project services, plc

2211 WIDMAN WAY
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FORT MYERS, FL 33901

ARCHITECT

ROBERT A. LONEMANN
1935
5/12/2025

MECHANICAL/ELECTRICAL ENGINEERS
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A NEW STORE:

KROGER L747

1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

PROJECT INFO
5-12-2025
DATE CONSTRUCTION SET

HVAC SECTIONS AND DETAILS

SHEET NO. 3

PROJECT NO: CPS2024-130.4
LAD. ENG. FILE:
DRAWN BY: TDS
CHK'D BY: KSL

M3.1.5

SHEET NO.

FOR QUESTIONS, CALL THE
National Accounts
REGION 15
PHONE: (919) 882 - 2410
EMAIL: reg15@captiveaire.com

PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#7497091

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM (RISERS)				HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP	END TO END	ROW
1	HIA - K-0002317	6024 ND-2	CAPTIVEAIRE	8' 0"	450 DEG	I	MEDIUM	150	1200			4"	12"	1200	1528	-0.294"	304 SS WHERE EXPOSED	LEFT	ALONE
2	HIB - K-0002317	6024 ND-2	CAPTIVEAIRE	8' 0"	450 DEG	I	MEDIUM	150	1200			4"	12"	1200	1528	-0.294"	304 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)		EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT			LENGTH	TYPE				TYPE	SIZE				
1	HIA - K-0002317	SS BAFFLE WITH HANDLES	5	16"	16"	30%	3	L55 SERIES E26	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	765 LBS
2	HIB - K-0002317	SS BAFFLE WITH HANDLES	5	16"	16"	30%	3	L55 SERIES E26	NO							YES	438 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	HIA - K-0002317	FIELD WRAPPER 18.00" HIGH FRONT, LEFT. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSDR-CV.
2	HIB - K-0002317	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS. SENSDR-CV.

CLEARANCE TO COMBUSTIBLES

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

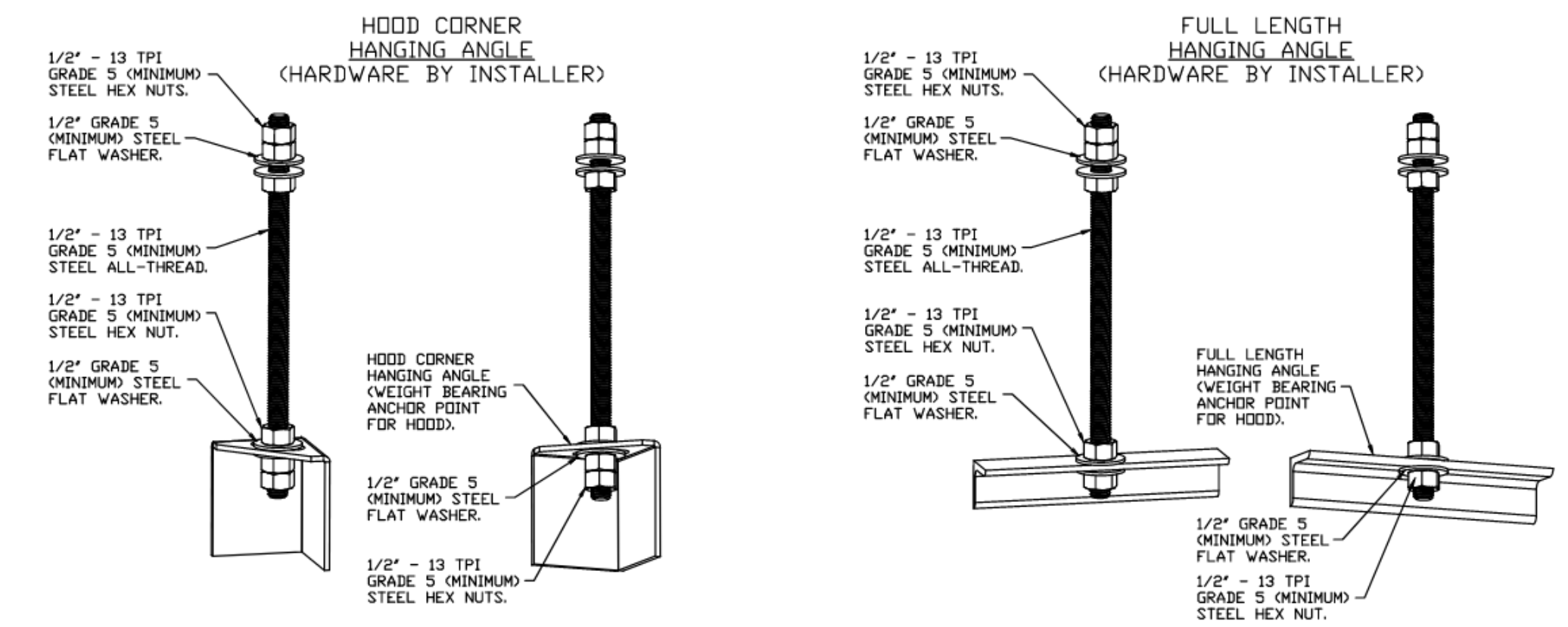
- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED

ETL LISTED
FILE# 102900319PRT-001

HVAC DISTRIBUTION NOTE
IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.



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.

REVISIONS

DESCRIPTION	DATE

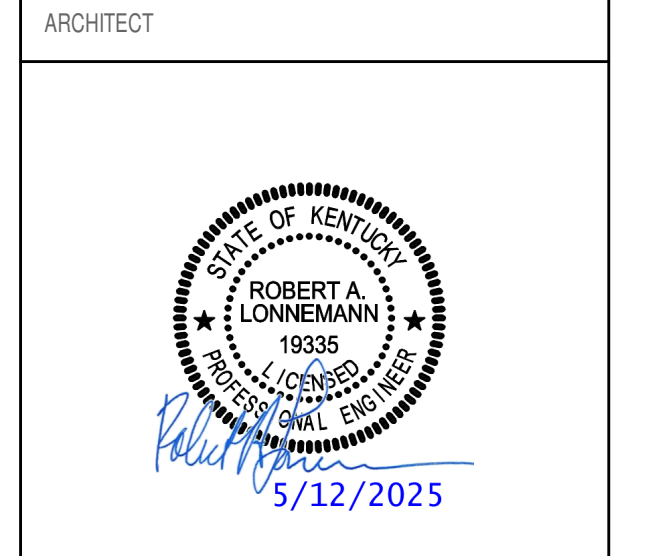
CAPTIVE-AIRE
www.captiveaire.com
National Accounts
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 882 - 2410 FAX: 9192275948 EMAIL: reg15@captiveaire.com

Kroger - L747 Elizabethtown KY - KVS
Elizabethtown, KY, 42701

DATE: 4/28/2025
DWG.#: 7497091
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1



2211 WIDMAN WAY
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FORT MYERS, FL 33901



MECHANICAL/ELECTRICAL ENGINEERS
WWW.KHENGHS.COM
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1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
859-342-8650
859-342-8625 FAX

A NEW STORE:
KROGER L747
1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

PROJECT NO: 5-12-2025
DATE: CONSTRUCTION SET

HVAC SECTIONS AND DETAILS

SHEET TITLE: Δ RESPONSE

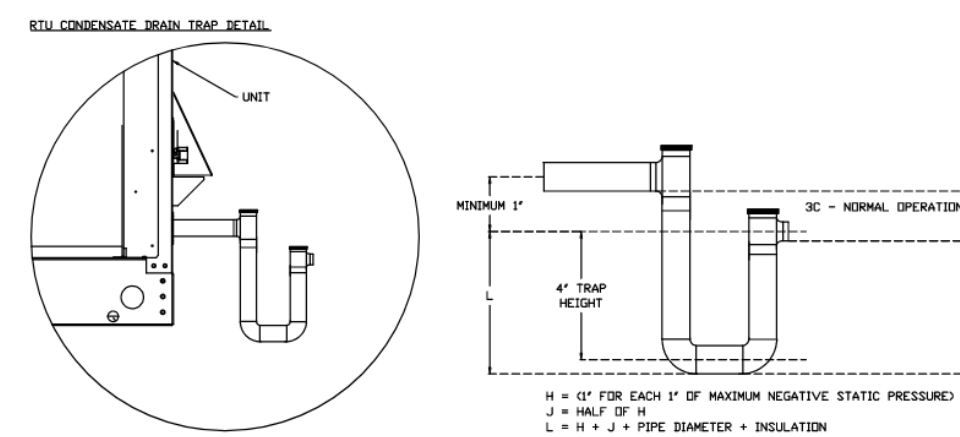
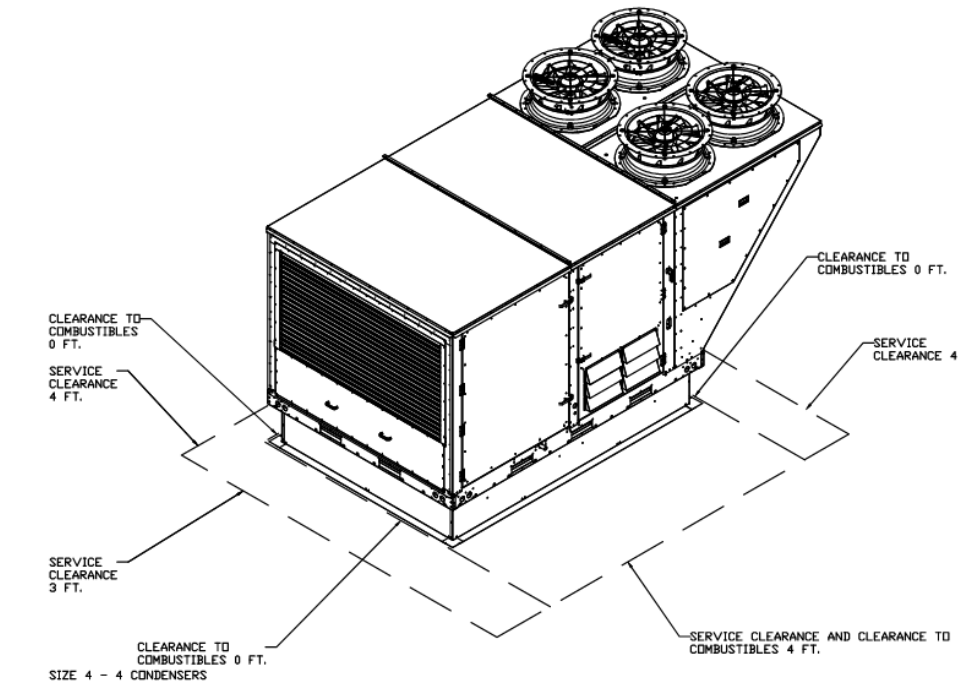
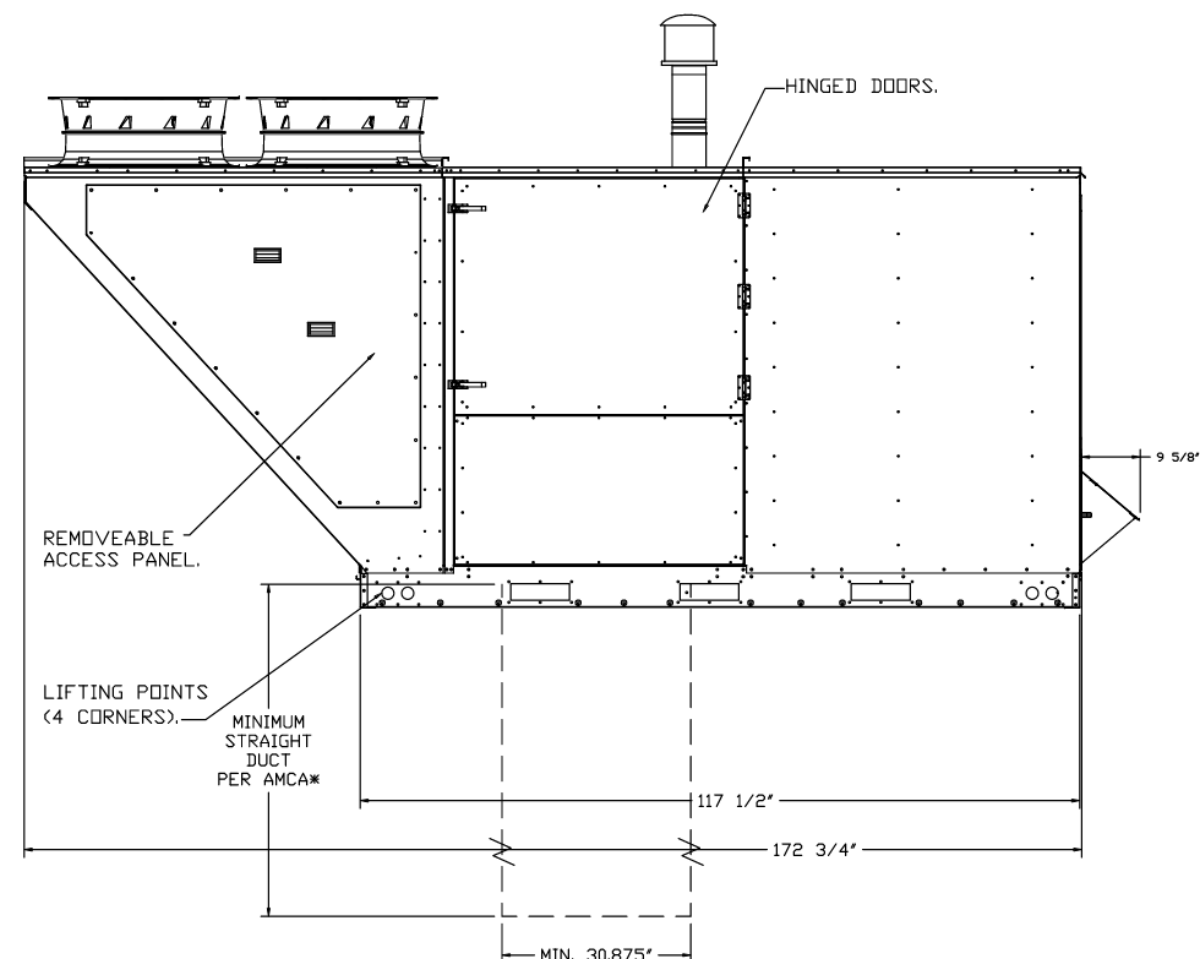
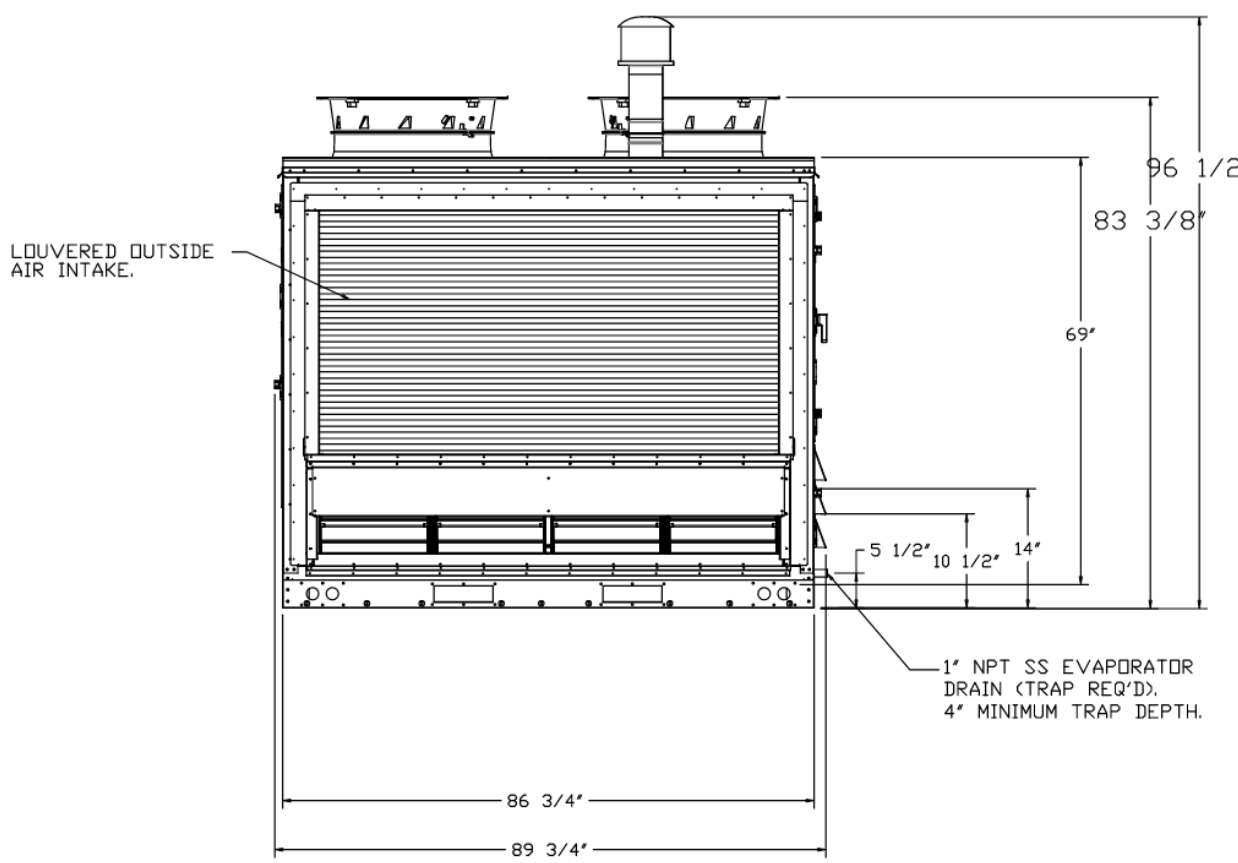
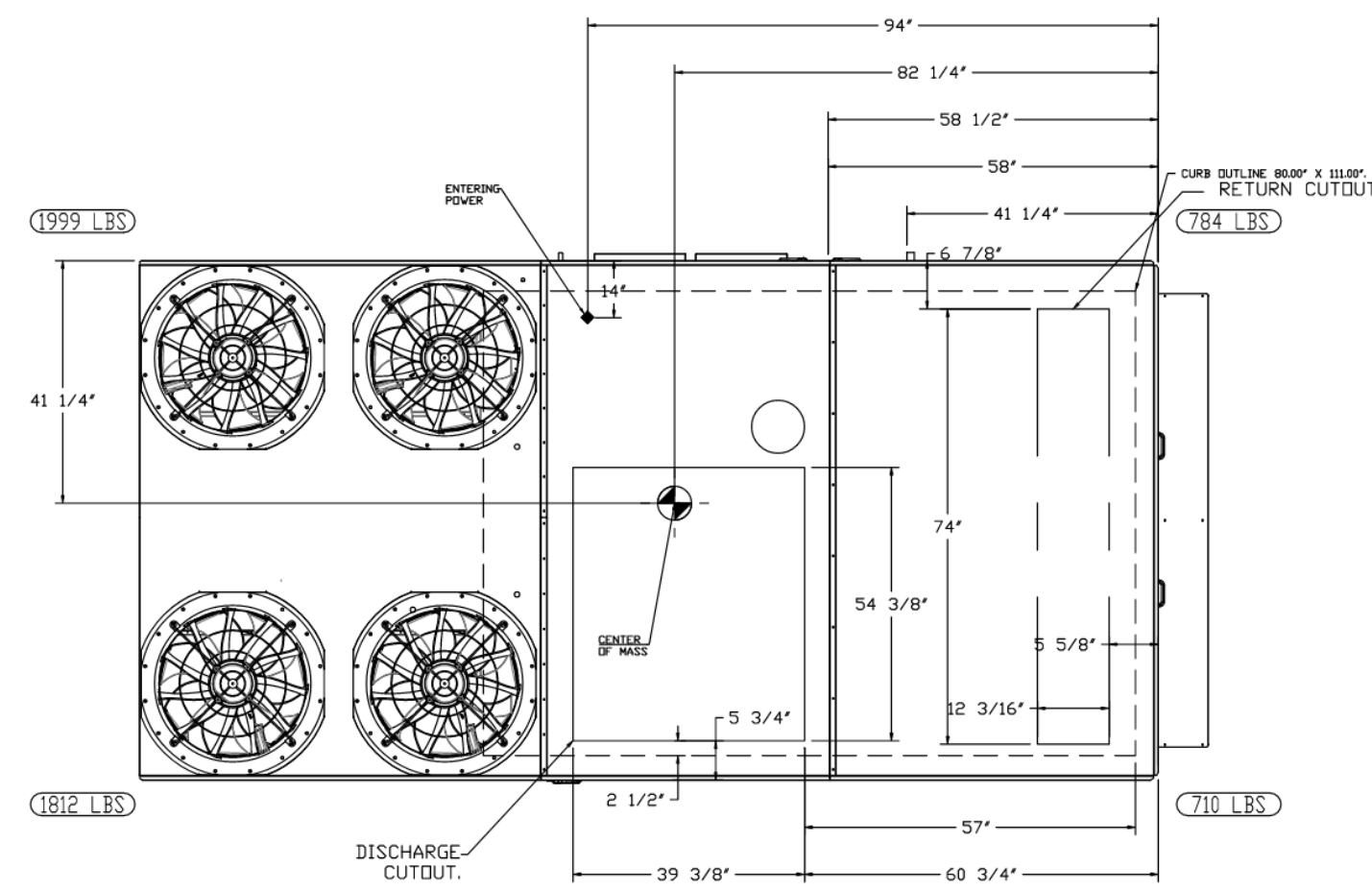
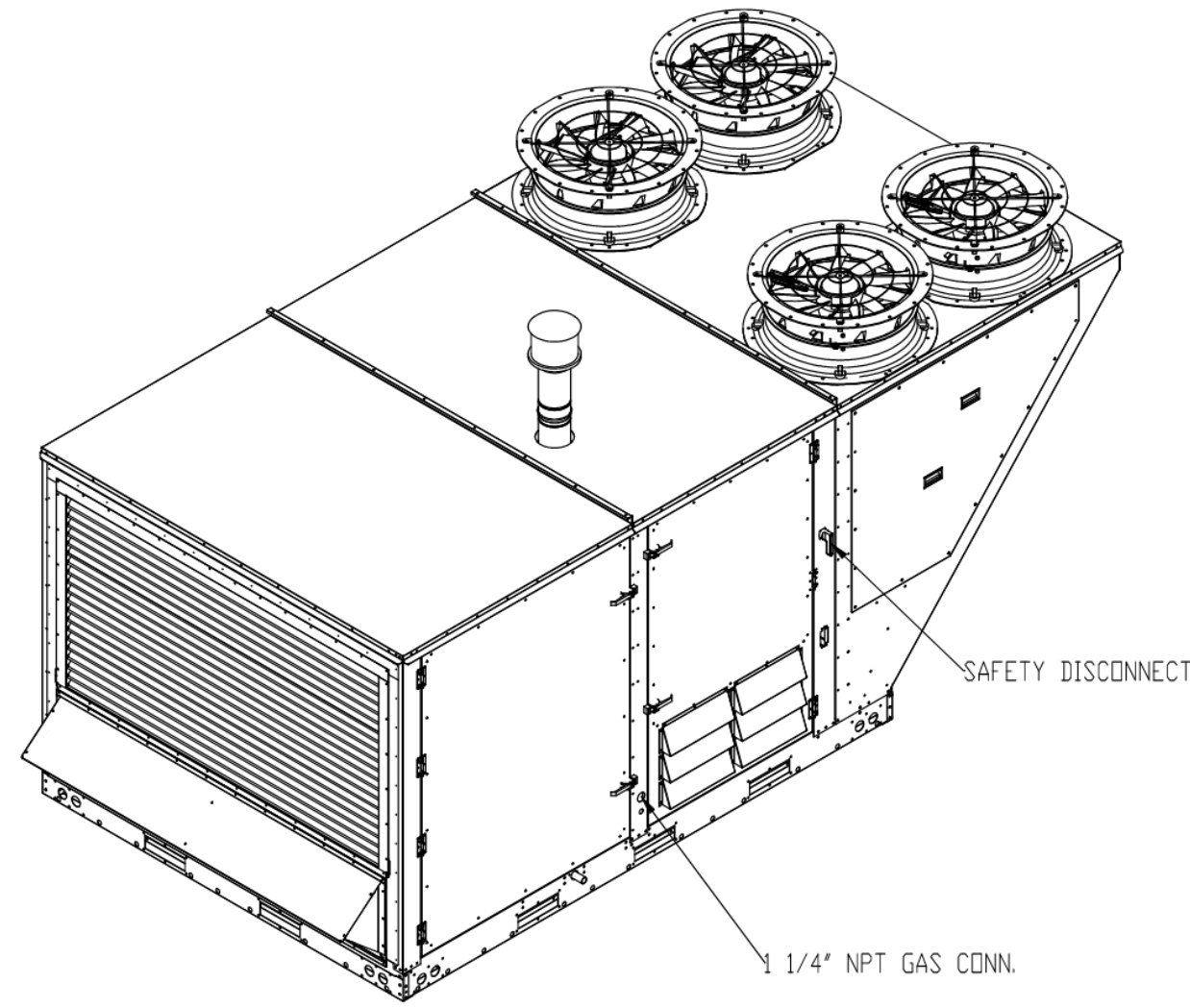
PROJECT NO: CPS2024-130.4
LAD ENG FILE:
DRAWN BY: TDS
CHK'D BY: KSL

M3.1.3

FAN_H2_CAS-HVAC4-1500-20-40T-2 - HEATER_DDAS - 2

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 - IDENTIFY CORNER WEIGHTS.
 - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
 - EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

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 ANCA PUBLICATION 031. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, 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 DRAMATICALLY 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 30.875" x 29.75"



REVISIONS

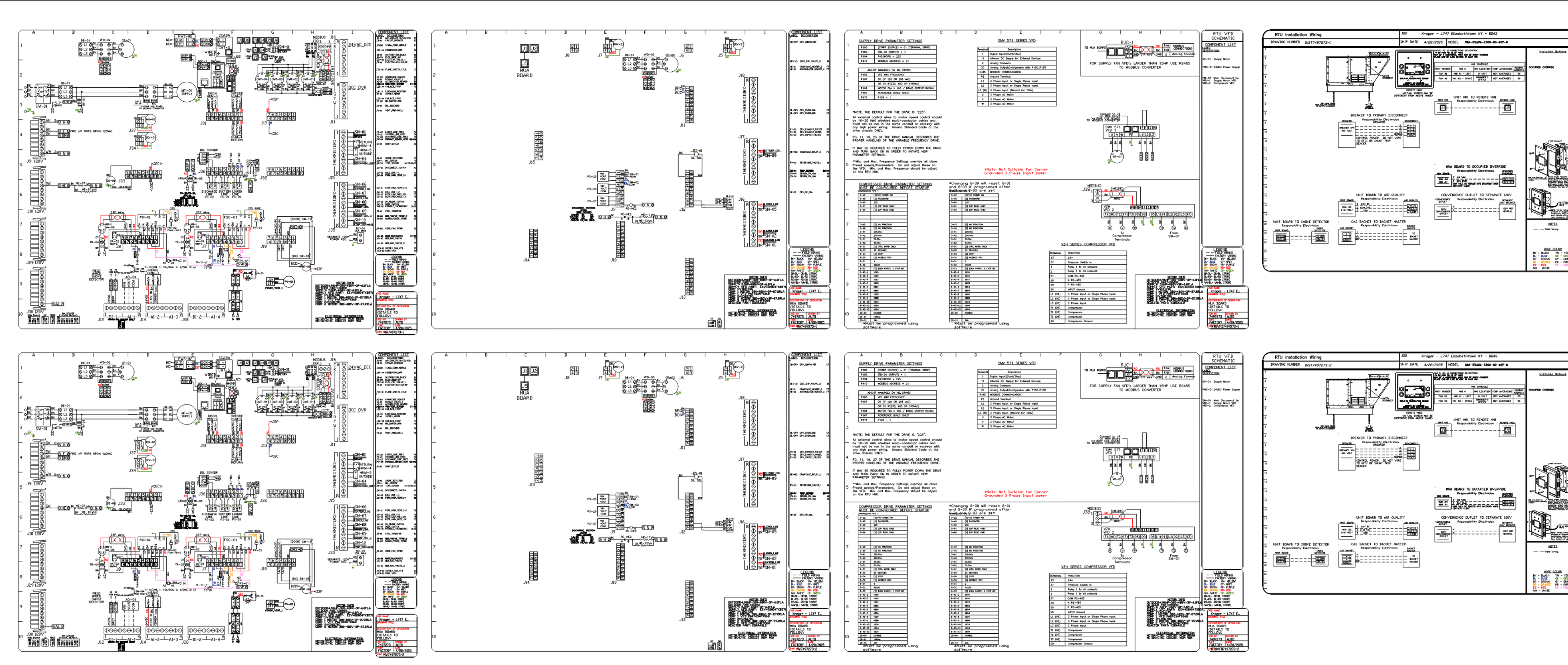
NO.	DESCRIPTION	DATE

CAPTIVE WIRE
National Accounts
441 Prager Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2411 FAX: 919279948 EMAIL: ngs@captivewire.com

Kroger - L747 Elizabethtown KY - DDAS
Elizabethtown, KY, 42701

DATE: 4/28/2025
DWG.#: 7497273
DRAWN BY: [Name]
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO. 3



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 INSTALLATIONS 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 ASSISTANT 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

NO.	DESCRIPTION	DATE

CAPTIVE WIRE
National Accounts
441 Prager Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2411 FAX: 919279948 EMAIL: ngs@captivewire.com

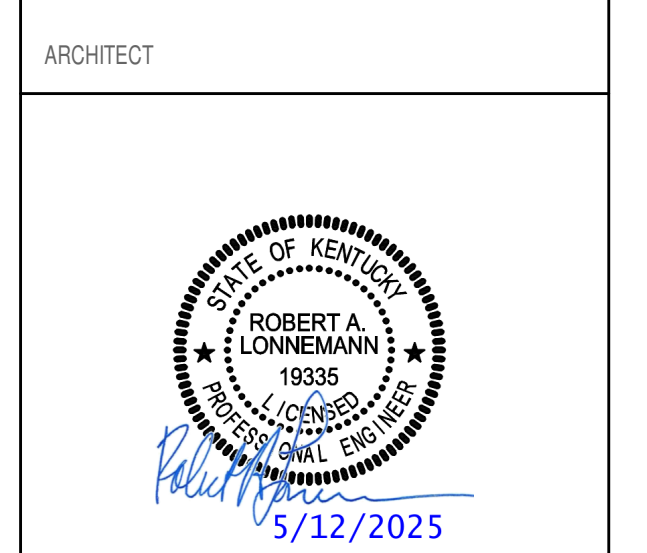
Kroger - L747 Elizabethtown KY - DDAS
Elizabethtown, KY, 42701

DATE: 4/28/2025
DWG.#: 7497273
DRAWN BY: [Name]
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO. 4



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SUITE 220
FORT MYERS, FL 33901



MECHANICAL/ELECTRICAL ENGINEERS
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LOUISVILLE, KENTUCKY
COLUMBUS, OHIO

KLH ENGINEERS
KOHRS LONEMANN HEIL ENGINEERS, INC.
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
859-368-8888
859-442-8858 FAX

A NEW STORE:

KROGER L747

1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

PROJECT NO:
5-12-2025
DATE: CONSTRUCTION SET

HVAC SECTIONS AND DETAILS

SHEET 103

NO.	DESCRIPTION	DATE

PROJECT NO: CPS2024-130.4
LAD: SMO: TFC
DRAWN BY: TDS
CHK'D BY: KSL

M3.1.2

SHEET NO.

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

NOTES:
 1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 2. IDENTIFY CONDUIT WEIGHT.
 3. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
 4. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BROWNET.

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

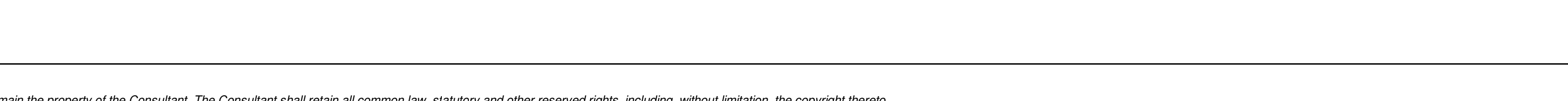
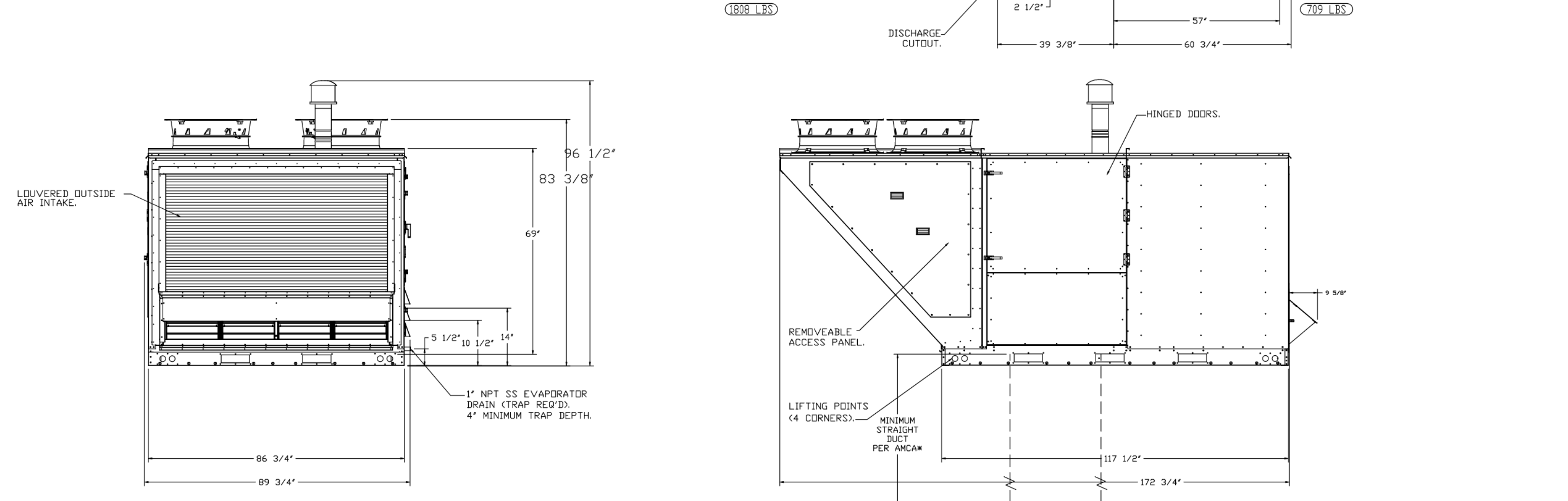
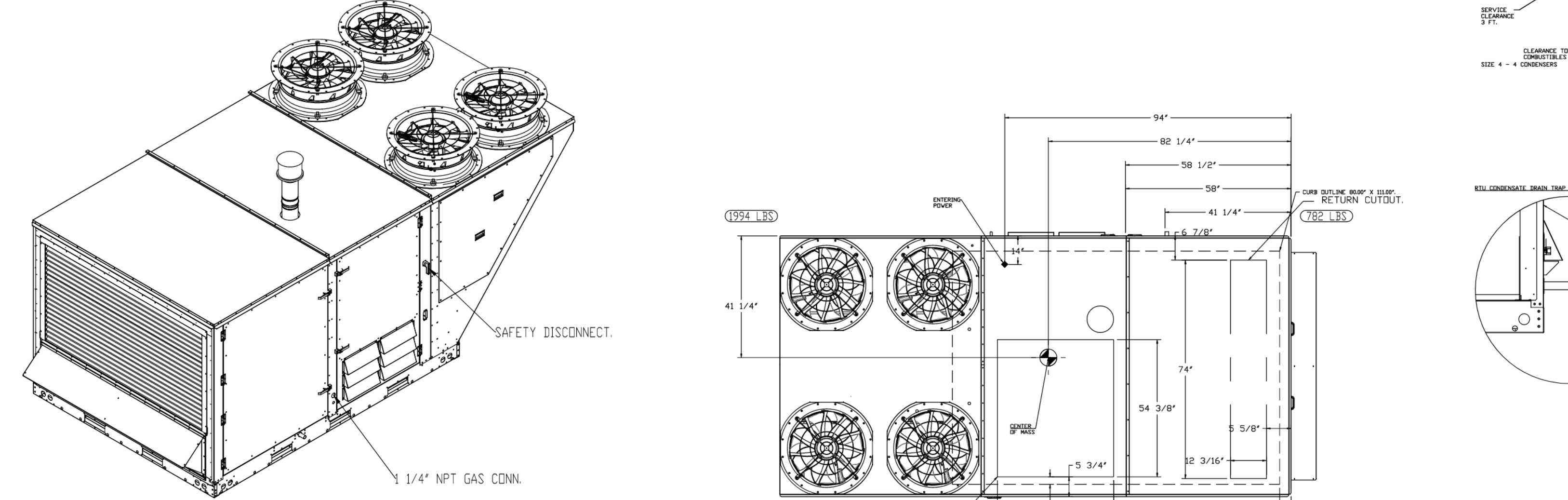
NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

FAN #1 CAS-HVAC4-1500-20-40T-2 - HEATER (DDAS - 1)

NOTES:
 1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 2. IDENTIFY CONDUIT WEIGHT.
 3. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
 4. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BROWNET.

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 ANCA PUBLICATION 801. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADII'S THROAT, 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 DRAMATICALLY 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 30.875" x 39.75"



REVISIONS

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

CAPTIVE WIRE
 National Accounts
 4411 Prager Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2411 FAX: (919) 882-2411
 Kroger - L747 Elizabethtown, KY - DDAS
 Elizabethtown, KY, 42701
 DATE: 4/28/2025
 DWG.#: 7497273
 DRAWN BY: [Name]
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING
 SHEET NO. 1

REVISIONS

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	001	ISSUED FOR PERMIT	04/28/2025	KLH	KLH
2	002	REVISIONS			

CAPTIVE WIRE
 National Accounts
 4411 Prager Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2411 FAX: (919) 882-2411
 Kroger - L747 Elizabethtown, KY - DDAS
 Elizabethtown, KY, 42701
 DATE: 4/28/2025
 DWG.#: 7497273
 DRAWN BY: [Name]
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING
 SHEET NO. 2

CAPSTONE
 project services, plc
 2211 WIDMAN WAY
 SUITE 220
 FORT MYERS, FL 33901

ARCHITECT
 ROBERT A. LONNEMANN
 1935
 5/12/2025

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 859-442-8650
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A NEW STORE:
KROGER L747
 1479 PATRIOT PARKWAY
 ELIZABETHTOWN, KY

PROJECT INFO
 5-12-2025
 DATE CONSTRUCTION SET

HVAC SECTIONS AND DETAILS

SHEET NO. M3.1.1

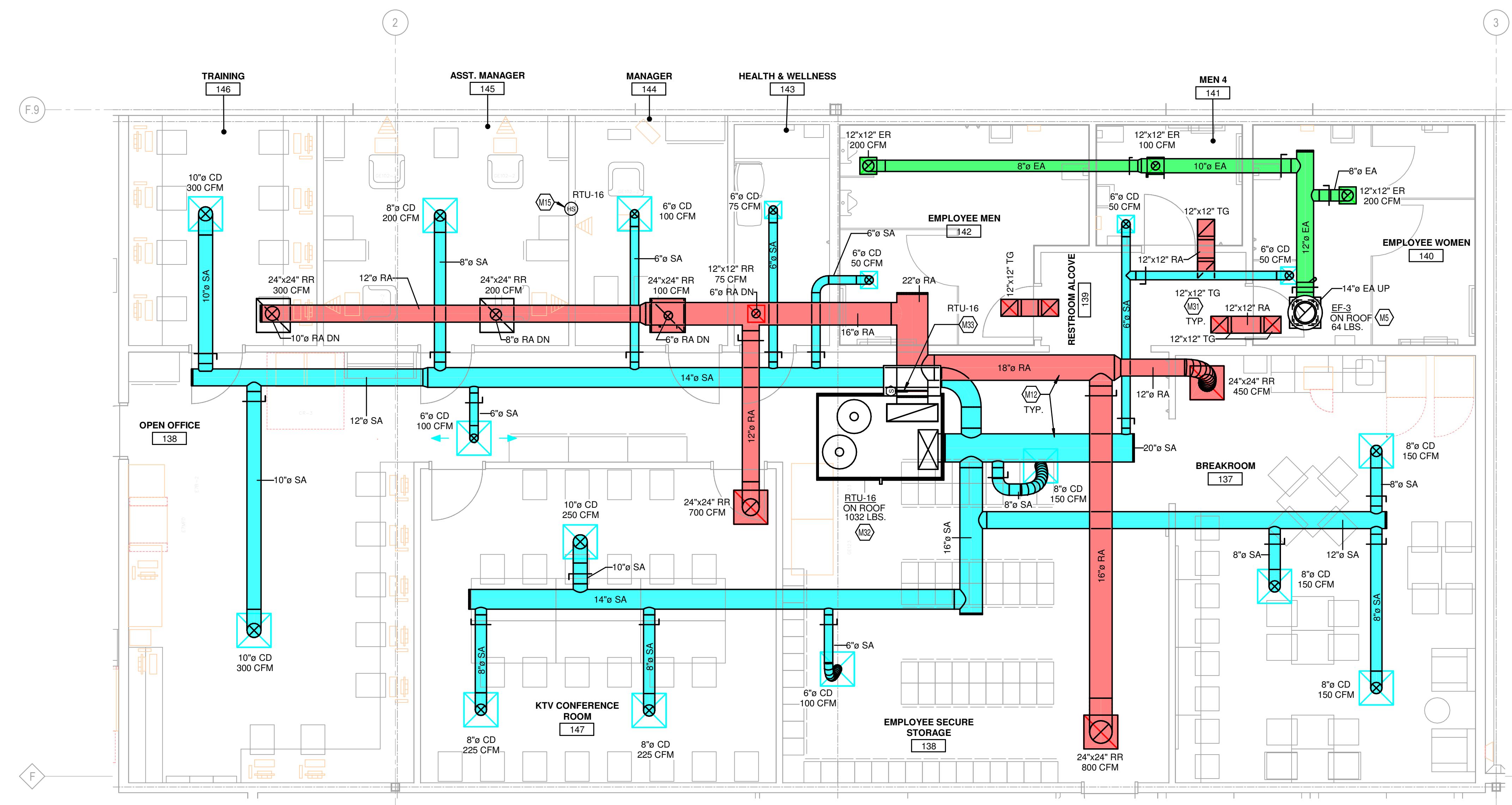
SHEET NO:	M1.4
DATE:	5-12-2025
PROJECT NO:	CPS2024-130.4
DESIGNER:	TDS
CHECKER:	KSL

KEYED NOTES

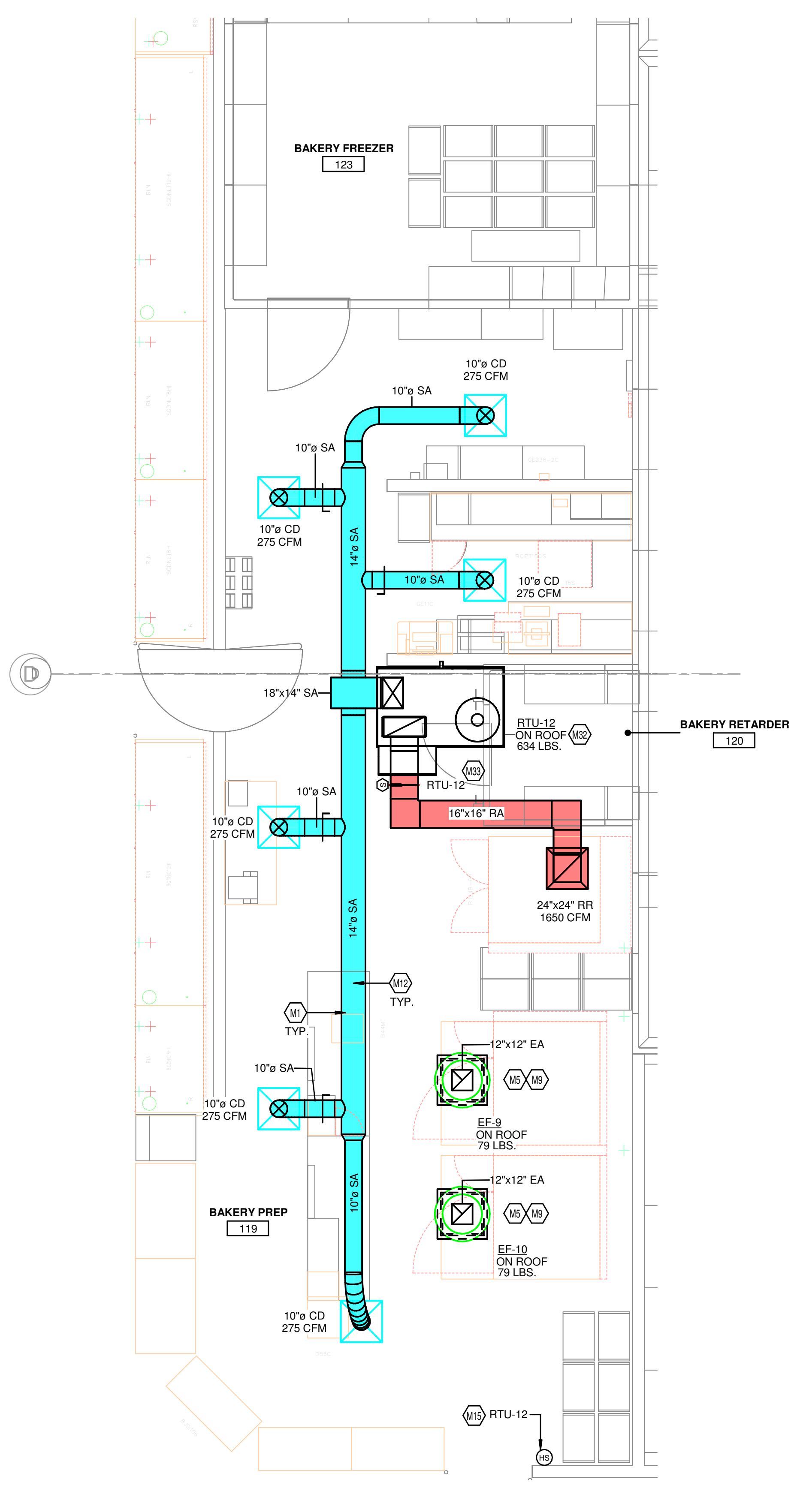
- M1 CONTRACTOR TO REFER TO HSD-3 FOR DUCTWORK INSTALLATION INFORMATION. TYPICAL.
- M2 THERMOSTAT TO BE MOUNTED A MINIMUM OF 4" AFF. PROVIDE LOCKABLE PROTECTIVE COVER OVER DEVICE.
- M3 DUCT UP TO OPENING THROUGH ROOF CAPPED WITH CURB AND PROPER FURNISHED EXHAUST FAN.
- M4 DUCT UP TO OPENING THRU ROOF. CONTRACTOR TO PROVIDE REVERSE ACTING THERMOSTAT FOR FAN. FAN TO ENERGIZE WHEN ROOM REACHES 80 DEG F.
- M5 SIDEWALL DIFFUSERS TO BE INSTALLED AT 45 DEGREES DOWNWARD. REFER TO 233713.00-13 ON M5.2 FOR INSTALLATION INFORMATION. DUCTWORK TO BE HELD TIGHT TO STRUCTURE.
- M6 B VENT DUCT UP FROM BACK OVEN VENT COLLAR THROUGH ROOF. DUCTS ARE ONLY TO OFFSET ABOVE ACT TILES. DUCTS ARE TO BE RUN STRAIGHT AND VERTICAL WHEN VISIBLE TO SALES FLOOR. REFER TO DETAIL HSD-7 FOR ADDITIONAL INFORMATION.
- M7 INSTALL RETURN IN ACCORDANCE WITH 233713.00-13 ON M5.2.
- M8 ROUTE DUCTWORK AT A REASONABLE HEIGHT ABOVE THE CEILING TO ENSURE EASE OF ACCESS FOR CLEANING AND MAINTENANCE. COMBINATION TEMPERATURE/RELATIVE HUMIDITY SENSOR FOR RTU FURNISHED BY BUILDING CONTROL. PROVIDE ROUTE CONTROL WIRING THROUGH RTU AND BACK TO BUILDING CONTROL PANEL.
- M9 CEILING MOUNTED FAN TO TRANSFER AIR TO SALES FLOOR. CONTRACTOR TO PROVIDE REVERSE ACTING THERMOSTAT FOR FAN. FAN TO ENERGIZE WHEN ROOM REACHES 75 DEG F. INSTALL DUCTWORK IN ACCORDANCE WITH 233713.00-13 ON M5.2.
- M10 MECHANICAL CONTRACTOR TO PROVIDE VAV DIFFUSER, ACCUTHERM ROOM FURNISHED WITH SYSTEM PROVIDED WITH LOW AMBIENT AIR AND WIND BAFFLES. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE REFRIGERANT LINES THROUGH ROOF TO CONDENSING UNIT PER MANUFACTURER'S GUIDELINES. ROUTE INSULATED CONDENSATE TO HUB DRAIN IN AREA. CONTRACTOR TO PROVIDE REFRIGERANT LINESET. COORDINATE ORDERING OF REFRIGERANT LINES WITH OWNER'S PROJECT MANAGER. REFERENCE HSD-11 SHEET M0.1 FOR ADDITIONAL INFORMATION. DS-1 TO BE MOUNTED ON WALL A MINIMUM OF 7' AFF.
- M11 INSTALL TRANSFER IN ACCORDANCE WITH 233713.00-13 ON M5.2.
- M12 ROOFTOP UNIT FURNISHED BY KROGER AND INSTALLED BY MECHANICAL CONTRACTOR. BALANCE TO SCHEDULED AIRFLOW. REFER TO ARCHITECTURAL ROOF PLAN FOR HVAC ROOF TOP DIMENSIONAL INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR JOIST AND BEAM LOCATIONS AND DIMENSIONAL INFORMATION. REFER TO HSD-10 FOR SEISMIC WIND RESISTANCE INFORMATION.
- M13 DUCT MOUNTED SMOKE DETECTOR TO BE INSTALLED IN THE RETURN DUCTWORK, DOWNSTREAM OF FILTERS AND UPSTREAM OF ANY BRANCH CONNECTIONS. INSTALL SAMPLING TUBES) AND DETECTOR HOUSING IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. DETECTOR, FAN SHUTDOWN WIRING, AND CONTROLS BY OTHERS.

NOTE TO CONTRACTOR

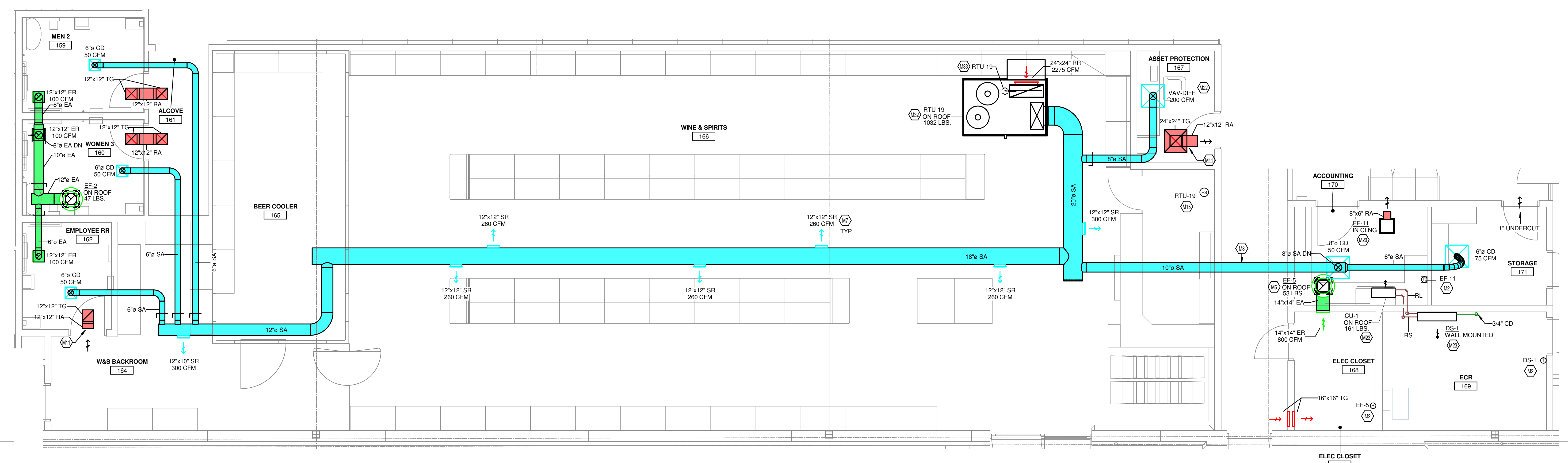
- A. CONTRACTOR TO VERIFY THE NECESSARY SIZES OF SUPPLY AND RETURN DUCT DROPS FROM ROOFTOP UNITS PRIOR TO ORDERING SHEET METAL. CONFIRM SIZES WITH APPROVED RTU SUBMITTAL. CONFIRM WITH OWNER THAT THE RTU LOCATIONS SHOWN WILL ALLOW BOTH THE SUPPLY AND RETURN DUCT DROPS TO FALL WITHIN SAME TWO STRUCTURAL JOISTS. REFER TO STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONS. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.



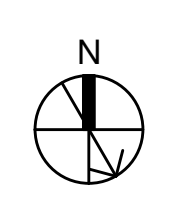
③ HVAC ENLARGED PLAN - BACK OFFICES
1/4" = 1'-0"



② HVAC ENLARGED PLAN - BAKERY
1/4" = 1'-0"



① HVAC ENLARGED PLAN - WINE & SPIRITS
1/4" = 1'-0"



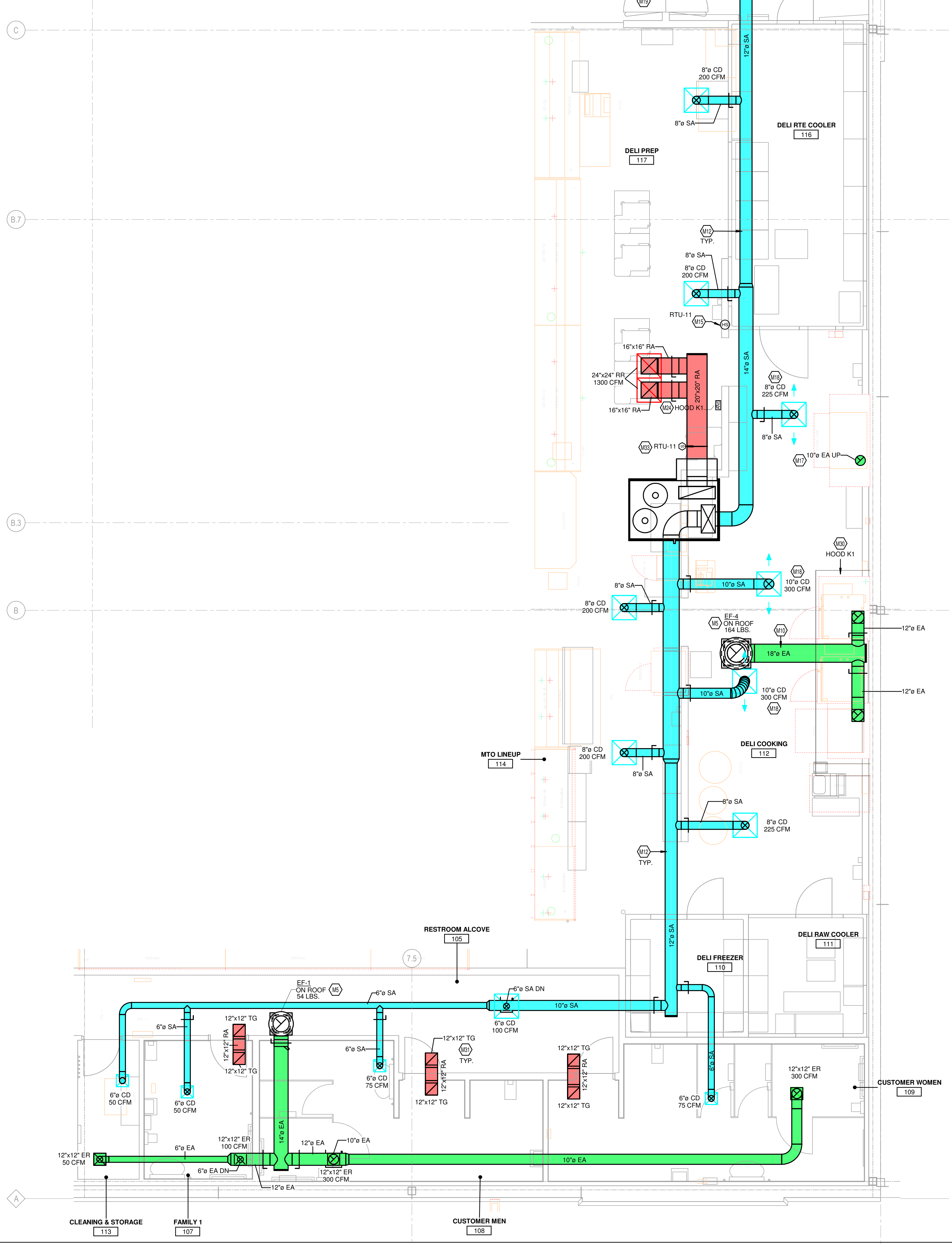
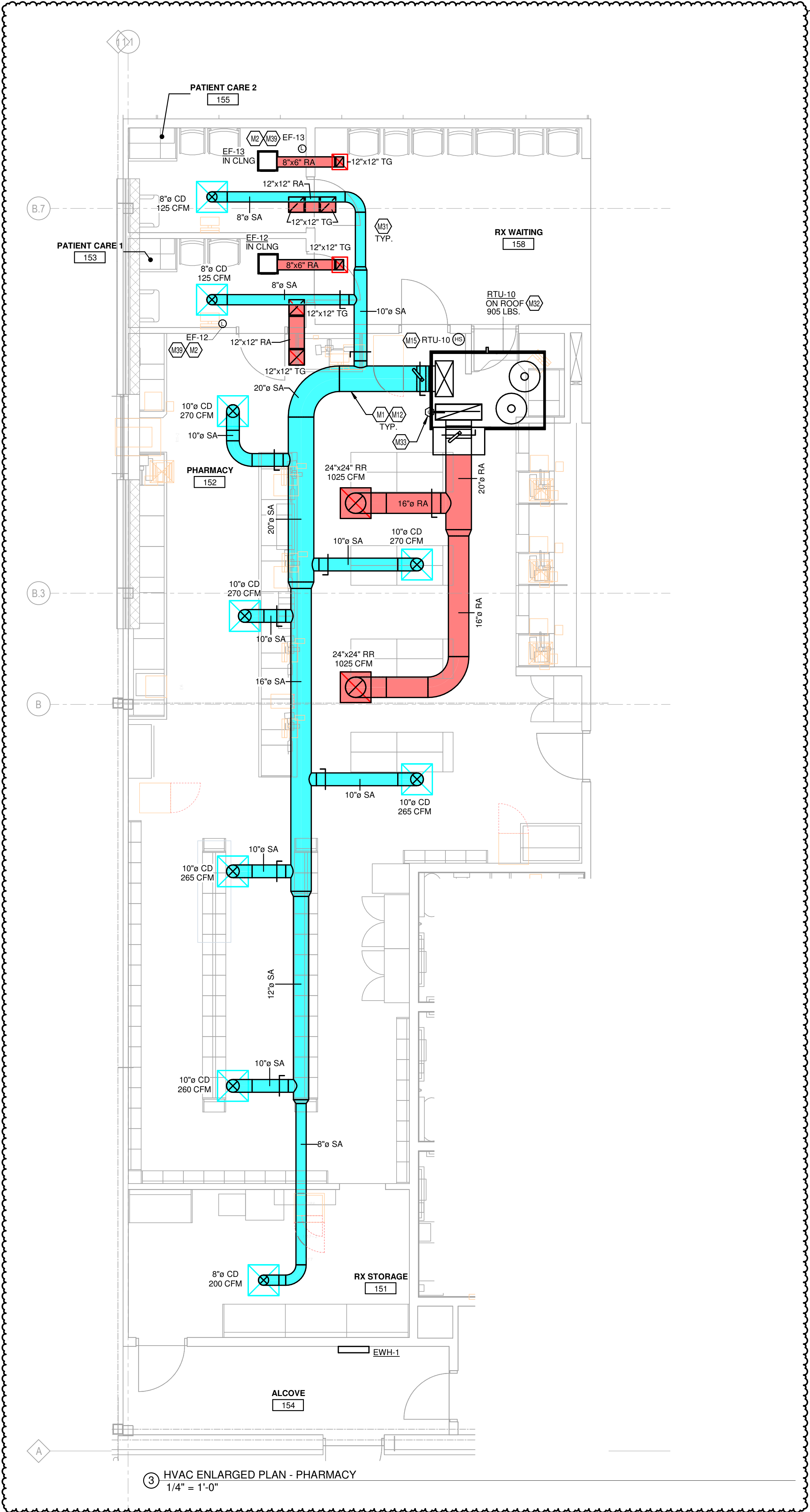
2" REFERENCE LINE

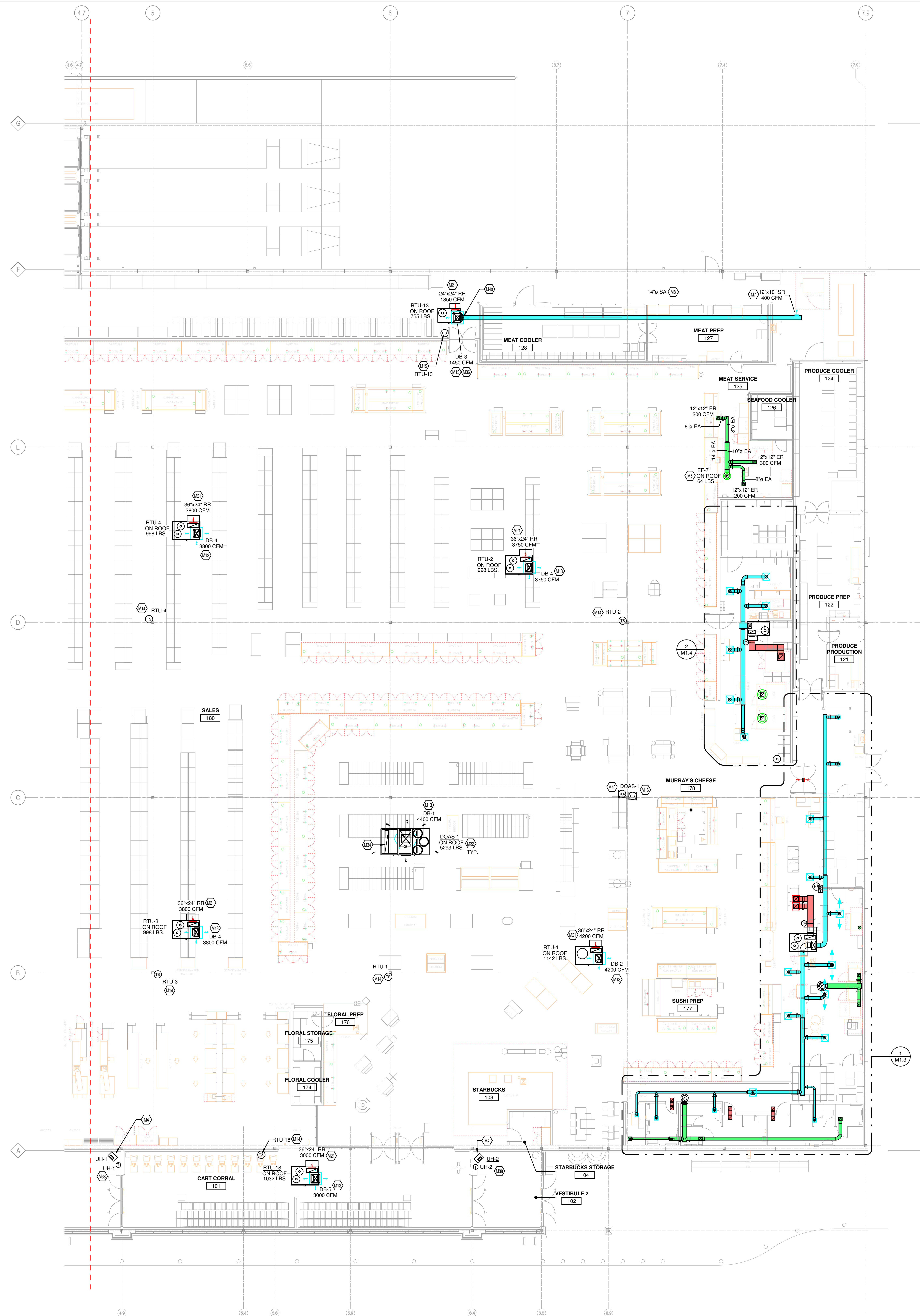
KEYED NOTES

- M1 CONTRACTOR TO REFER TO HSD-3 FOR DUCTWORK INSTALLATION INFORMATION. TYPICAL.
- M2 THERMOSTAT TO BE MOUNTED A MINIMUM OF 4'-0" AFF. PROVIDE LOCKABLE PROTECTIVE COVER OVER DEVICE.
- M5 DUCT UP TO OPENING THROUGH ROOF CAPPED WITH CURB AND KROGER FURNISHED EXHAUST FAN.
- M10 GREASE DUCT FROM EXHAUST HOOD TO OPENING THROUGH ROOF PER NFA 96. MECHANICAL CONTRACTOR TO INSTALL PROVIDED HINGE KIT. DUCTWRAP IS TO RUN THE ENTIRE LENGTH OF GREASE DUCT FROM CEILING PENETRATION TO FAN. REFER TO HSD-4, HSD-4A AND HSD-4B ON MS.1, AND BOTH 230B13.00-0A AND 235B13.00-02 ON MS.2 FOR ADDITIONAL INFORMATION.
- M12 ROUTE DUCTWORK AT A REASONABLE HEIGHT ABOVE THE CEILING TO ENSURE EASE OF ACCESS FOR CLEANING AND MAINTENANCE.
- M15 COMBINATION TEMPERATURE/HUMIDITY SENSOR FOR RTU FURNISHED BY BUILDING CONTROL PROVIDER. ROUTE CONTROL WIRING THROUGH RTU AND BACK TO BUILDING CONTROL PANEL.
- M17 LW 50 VENT KIT INCLUDED WITH UNIT AND SUPPLIED BY HOWART. VENT KIT AUTOMATICALLY REMOVES STEAM CONDENSATE AT THE COMPLETION OF THE WAREWASH CYCLE. WAREWASH DOORS WILL NOT OPEN UNTIL THIS PROCESS IS COMPLETED. MECHANICAL CONTRACTOR TO CONNECT STAINLESS STEEL DUCT TO THE VENT KIT OPENING THROUGH ROOF. REFER TO HSD-4 FOR ADDITIONAL INFORMATION.
- M18 DIFFUSER AROUND HOOD TO BE 2-WAY DIFFUSER FACING AWAY FROM THE HOOD TO PREVENT INTERFERENCE WITH THE HOOD'S CONTAIN AND CAPTURE.
- M19 INSTALL TRANSFER GRILLES IN WALL AS HIGH AS POSSIBLE. COORDINATE FINAL LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO WORK.
- M24 HOOD ANUL PULL STATION LOCATION. COORDINATE FINAL LOCATION WITH ELECTRICAL PLANS. PROVIDE NAMEPLATE AT STATION WITH HOOD NUMBER AND LOCATIONS. REFERENCE HSD-4A AND 4B FOR ADDITIONAL INFORMATION.
- M27 MOUNT GRILLE REGISTER 10" AFF.
- M30 REFER TO ARCHITECTURAL DRAWINGS FOR FINAL HOOD LOCATION AND HOOD DIMENSIONS.
- M31 INSTALL TRANSFER IN ACCORDANCE WITH 233713.00-19 ON MS.2.
- M32 ROOF TOP UNIT FURNISHED BY KROGER AND INSTALLED BY MECHANICAL CONTRACTOR. BALANCE TO SCHEDULED AIRFLOW. REFER TO ARCHITECTURAL ROOF PLAN FOR HVAC ROOFTOP DIMENSIONAL INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR JOIST AND BEAM LOCATIONS AND DIMENSIONAL INFORMATION. REFER TO HSD-10 FOR SEISMIC WIND RESISTANCE INFORMATION.
- M33 DUCT MOUNTED SMOKE DETECTOR TO BE INSTALLED IN THE RETURN DUCTWORK, DOWNSTREAM OF FILTERS AND UNBETWEEN ANY BRANCH CONNECTIONS. INSTALL SAMPLING TUBES AND DETECTOR HOUSING IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. DETECTOR, FAN SHUTDOWN WIRING, AND CONTROLS BY OTHERS.
- M39 THERMOSTAT TO BE BASIS OF DESIGN HONEYWELL TB6575A1016 CONFIGURED WITH AUTO CHANGEOVER CONTROLS TO LIMIT HEATING TO A 68 DEG F MAXIMUM AND COOLING TO A 73 DEG F MINIMUM. REFER TO PROVIDED INFORMATION ON MS.2 FOR MORE INFORMATION.

NOTE TO CONTRACTOR

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KEYED NOTES

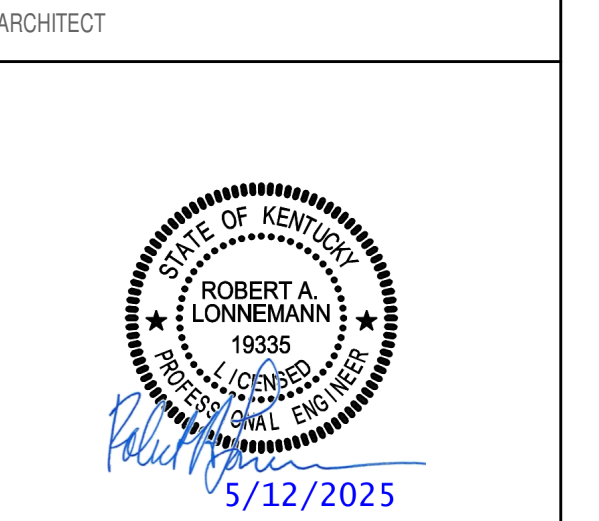
- M4 SUSPEND ELECTRIC HEATER USING THREADED ROD TO UNISTRUT CHANNEL, OR APPROVED EQUAL, MOUNT 8" AFF TO BOTTOM OF UNIT. VERIFY LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION. REFER TO HSD-16 ON MS-1 AND TO MS-1 FOR MORE INFORMATION.
- M5 DUCT UP TO OPENING THROUGH ROOF CAPPED WITH CURB AND HROGER FURNISHED EXHAUST FAN.
- M7 SIDEWALL DIFFUSERS TO BE INSTALLED AT 45 DEGREES DOWNWARD. REFER TO 233713.00-02 ON MS-2 FOR INSTALLATION INFORMATION. DUCTWORK TO BE HELD TIGHT TO STRUCTURE.
- M13 DROP BOX DIFFUSER SYSTEM. REFER TO DIFFUSER SCHEDULE FOR AES MODEL NUMBERS AND QUANTITIES. REFER TO FLOOR PLANS FOR THROW DIRECTIONS AND AIRFLOW. REFER TO DETAIL HSD-1 FOR INSTALLATION.
- M14 TEMPERATURE SENSOR FOR RTU FURNISHED BY BUILDING CONTROL PROVIDER. ROUTE CONTROL WIRING THROUGH RTU AND BACK TO BUILDING CONTROL PANEL.
- M15 COMBINATION TEMPERATURE/RELATIVE HUMIDITY SENSOR FOR RTU FURNISHED BY BUILDING CONTROL PROVIDER. ROUTE CONTROL WIRING THROUGH RTU AND BACK TO BUILDING CONTROL PANEL.
- M16 COMBINATION TEMPERATURE/RELATIVE HUMIDITY SENSOR FURNISHED BY BUILDING CONTROLS PROVIDER. INSTALL PROBE AT 7'-0" AFF ON COLUMN. REFER TO EM SERIES OF DRAWINGS FOR FURTHER INFORMATION.
- M21 RETURN AIR GRILLE IN SIDE OF DUCT DROP, TITUS 50F WITH 1 INCH OPENINGS OR APPROVED EQUAL.
- M22 ROOFTOP UNIT FURNISHED BY KROGER AND INSTALLED BY MECHANICAL CONTRACTOR. BALANCE TO SCHEDULED AIRFLOW. REFER TO ARCHITECTURAL ROOF PLAN FOR HVAC ROOFTOP DIMENSIONAL INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR JOIST AND BEAM LOCATIONS AND DIMENSIONAL INFORMATION. REFER TO HSD-10 FOR SEISMIC WIND RESISTANCE INFORMATION.
- M34 RETURN AIR GRILLE TO BE INSTALLED ON VERTICAL FACE OF RETURN DUCT DROP, OPPOSITE 8WAY DROPBOX DIFFUSER. BASIS OF DESIGN TITUS 50F WITH 1" OPENINGS OR APPROVED EQUAL.
- M36 MOUNT DROPBOX DIFFUSER AS HIGH AS POSSIBLE.
- M38 THERMOSTAT TO BE CONFIGURED WITH AUTOMATIC HEATING SHUTOFF ACTIVATING WHEN OUTDOOR AIR TEMPERATURE REACHES 50 DEG F.
- M40 VOLUME DAMPER AT DUCT CONNECTION. CONTRACTOR TO INSTALL PER DETAIL 23330.00-01 ON MS-2.
- M48 PROVIDE CO2 SENSOR WHERE SHOWN. ROUTE CONTROL WIRING TO BUILDING CONTROL PANEL.

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859-342-8650
859-342-8652 FAX

A NEW STORE:
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1479 PATRIOT PARKWAY
ELIZABETHTOWN, KY

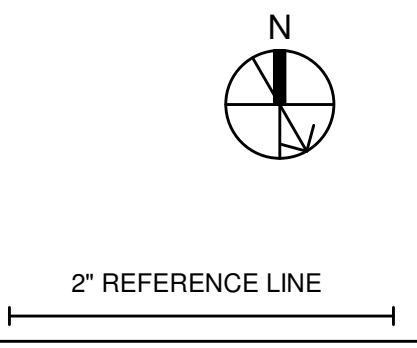
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5-12-2025
DATE
CONSTRUCTION SET

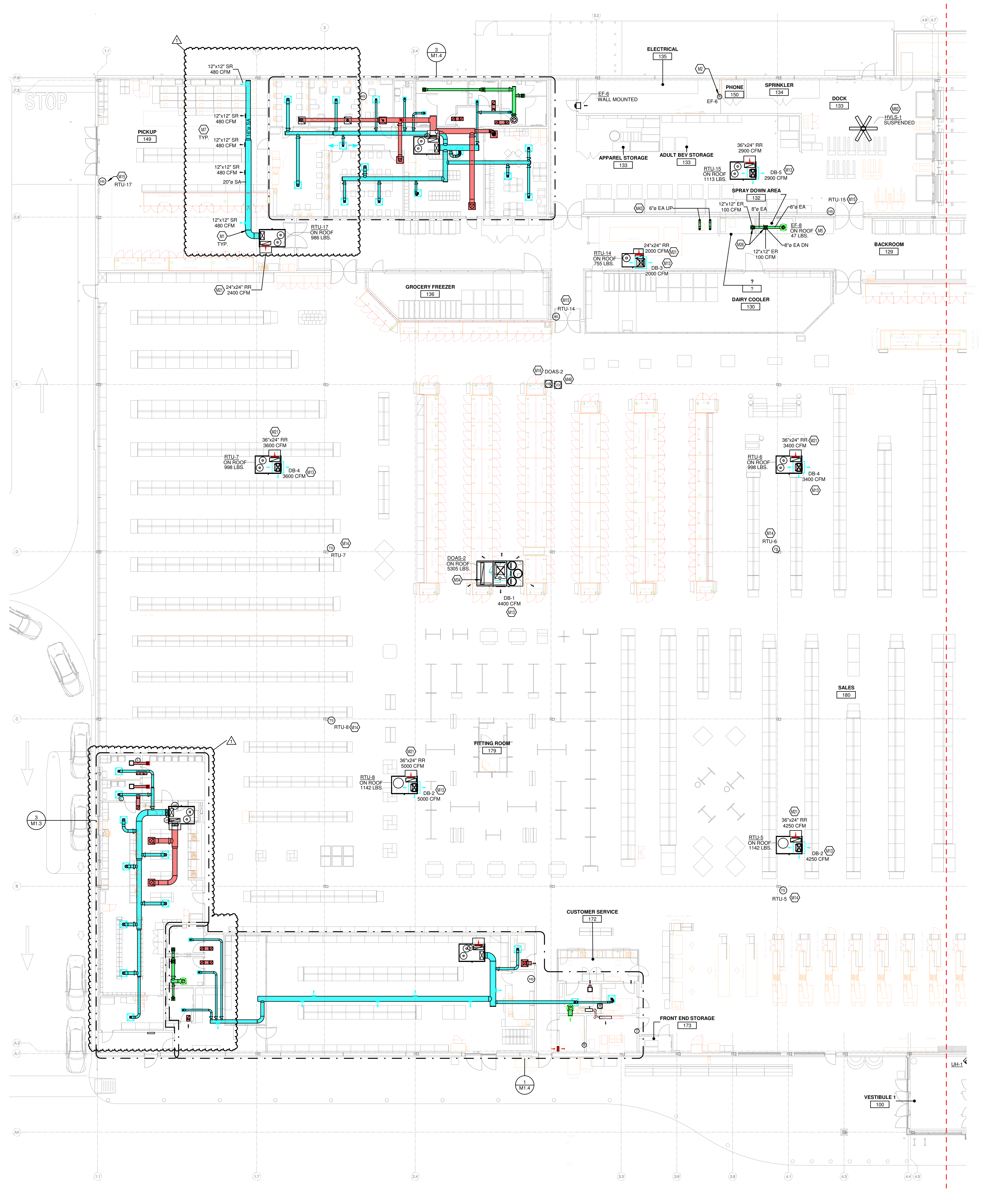
HVAC FLOOR PLAN - RIGHT

SHEET TITLE	HVAC FLOOR PLAN - RIGHT
DATE	5-12-2025
PROJECT NO.	CPS2024-130.4
DESIGNER	TDS
CHECKER	KSL

M1.1b

1 HVAC FLOOR PLAN - RIGHT
3/32" = 1'-0"





KEYED NOTES

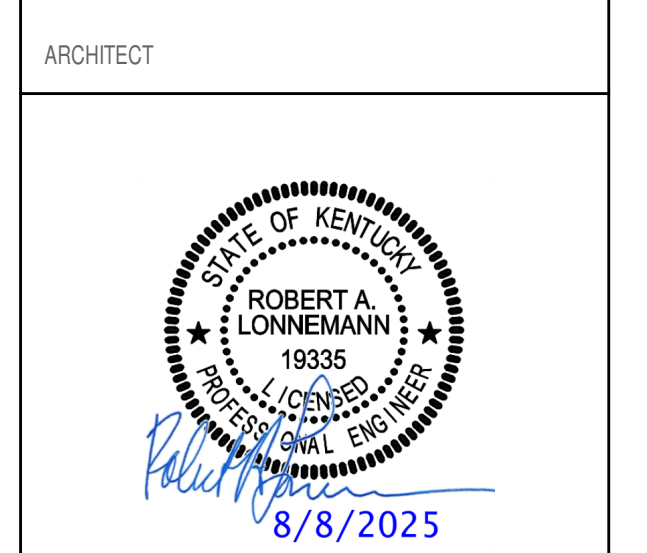
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- M3 DUCT UP TO OPENING THROUGH ROOF CAPPED WITH CURBS AND KROGER FURNISHED EXHAUST FAN.
- M7 SIDEWALL DIFFUSERS TO BE INSTALLED AT 45 DEGREES DOWNWARD. REFER TO 23773.00/02 ON PG. 2 FOR INSTALLATION INFORMATION.
- M13 DROP BOX DIFFUSER SYSTEM. REFER TO DIFFUSER SCHEDULE FOR AES MODEL NUMBERS AND QUANTITIES. REFER TO FLOOR PLANS FOR THROW DIRECTIONS AND AIRFLOW. REFER TO DETAIL HSD-1 FOR INSTALLATION.
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- M21 RETURN AIR GRILLE IN SIDE OF DUCT DROP. TITUS 50F WITH 1 INCH OPENINGS OR APPROVED EQUAL.
- M26 MOUNT GRILLE REGISTER BY AFF.
- M34 RETURN AIR GRILLE TO BE INSTALLED ON VERTICAL FACE OF RETURN DUCT DROP. OPPOSITE 6-WAY DROPBOX DIFFUSER. BASIS OF DESIGN TITUS 50F WITH 1" OPENINGS OR APPROVED EQUAL.
- M43 MECHANICAL CONTRACTOR TO PROVIDE FLUE VENT AND INTAKES FROM WATER HEATERS UP THROUGH ROOF. REFER TO M12a AND DETAIL PSD-6C ON SHEET PS.1.
- M48 PROVIDE CO2 SENSOR WHERE SHOWN. ROUTE CONTROL WIRING TO BUILDING CONTROL PANEL.
- M62 6-BLADE FAN PROVIDED BY CONTRACTOR. BASIS OF DESIGN CANARM CPFB WITH FRIMS REMOTE MOUNTED CONTROL SWITCH MOUNT FAN ABOVE LIGHTS AND PER MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS. MOUNT SWITCH 4'-0" AFF. CONFIRM FINAL MOUNTING HEIGHT AND LOCATION OF FAN AND CONTROLS WITH OWNER AND ARCHITECT.

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HVAC FLOOR PLAN - LEFT

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DESIGNER	TDS
CHECKER	KSL

M1.1a

2 HVAC FLOOR PLAN - LEFT
3/32" = 1'-0"

