

HVAC KEY NOTES

- 1 PROVIDE NEW ELECTRIC COOLING GAS HEATING ROOFTOP UNIT WITH PRE-FABRICATED, MINIMUM 14" INCH INSULATED ROOF CURB. MAINTAIN MINIMUM HEIGHT OF 8 INCHES FROM ROOF SURFACE. REFER TO HVAC SCHEDULE ON SHEET M3.1. FIELD VERIFY AND COORDINATE WITH STRUCTURAL AND ALL LOCAL AND STATE REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- 2 FIELD VERIFY EXHAUST AIR MAINTAINS A 10 FOOT MINIMUM CLEARANCE FROM ANY FRESH AIR INTAKE AND COMPLIES WITH ALL CODE REQUIREMENTS.
- 3 MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- 4 PROVIDE NEW AIR DEVICE. MAXIMUM LENGTH OF FLEXIBLE DUCT RUN-OUT IS 4 FEET. NO EXCEPTIONS. FIELD VERIFY & COORDINATE LOCATIONS PRIOR TO BID & CONSTRUCTION. RE-BALANCE AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH MANUAL VOLUME DAMPERS WITH ACCESSIBILITY. ANY DEFICIENCIES AND/OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY.
- 5 PROVIDE NEW RESTROOM EXHAUST FAN REPLACING THE EXISTING FAN THROUGH THE EXISTING ROOF OPENING. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS IF PARAPET IS LOWER THAN 42" OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE AS REQUIRED. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING.
- 6 NOT USED.
- 7 STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 SENSOR ANALOG. ANALOG SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND CAGE ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- 8 STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- 9 STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDINATE WITH ELECTRICAL DRAWING E22 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- 10 CONTRACTOR TO INSTALL OVERFLOW SWITCH INSIDE ROOFTOP UNIT DRAIN PAN. ON DOWN-FLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY DRAIN AND DO NOT HAVE A MEANS TO INSTALL AN AUXILIARY DRAIN PAN. A WATER-LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
- 11 NEW MANUAL PULL STATION SHALL BE LOCATED 10 FEET MINIMUM TO 20 FEET MAXIMUM FROM HOOD, ONE AT OR NEAR EVERY POINT OF EGRESS FROM THE HOOD COOKING AREA. PULL STATION SHALL BE SECURELY MOUNTED NOT LESS THAN 42" (INCHES) OR MORE THAN 48" (INCHES) FROM THE FLOOR. PROVIDE SIGNAGE FOR PULL STATION.
- 12 PROVIDE A LENOX FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR. REFER TO SCHEDULE ON SHEET M3.1 AND LENOX SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM ON SHEET M4.2. SEE ADDED BOXED NOTE SHEET M3.1 HVAC SCHEDULE REGARDING SUPPLY SIDE SMOKE DETECTOR.
- 13 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 14 R/A DUCT DROP TO BE FULL SIZE OF CURB CONNECTION. PROVIDE PLENUM BOX ABOVE CEILING AS SHOWN ON PLAN.
- 15 SEE ELEVATION ON M2 FOR C/J FAN DUCTING REQUIREMENTS.

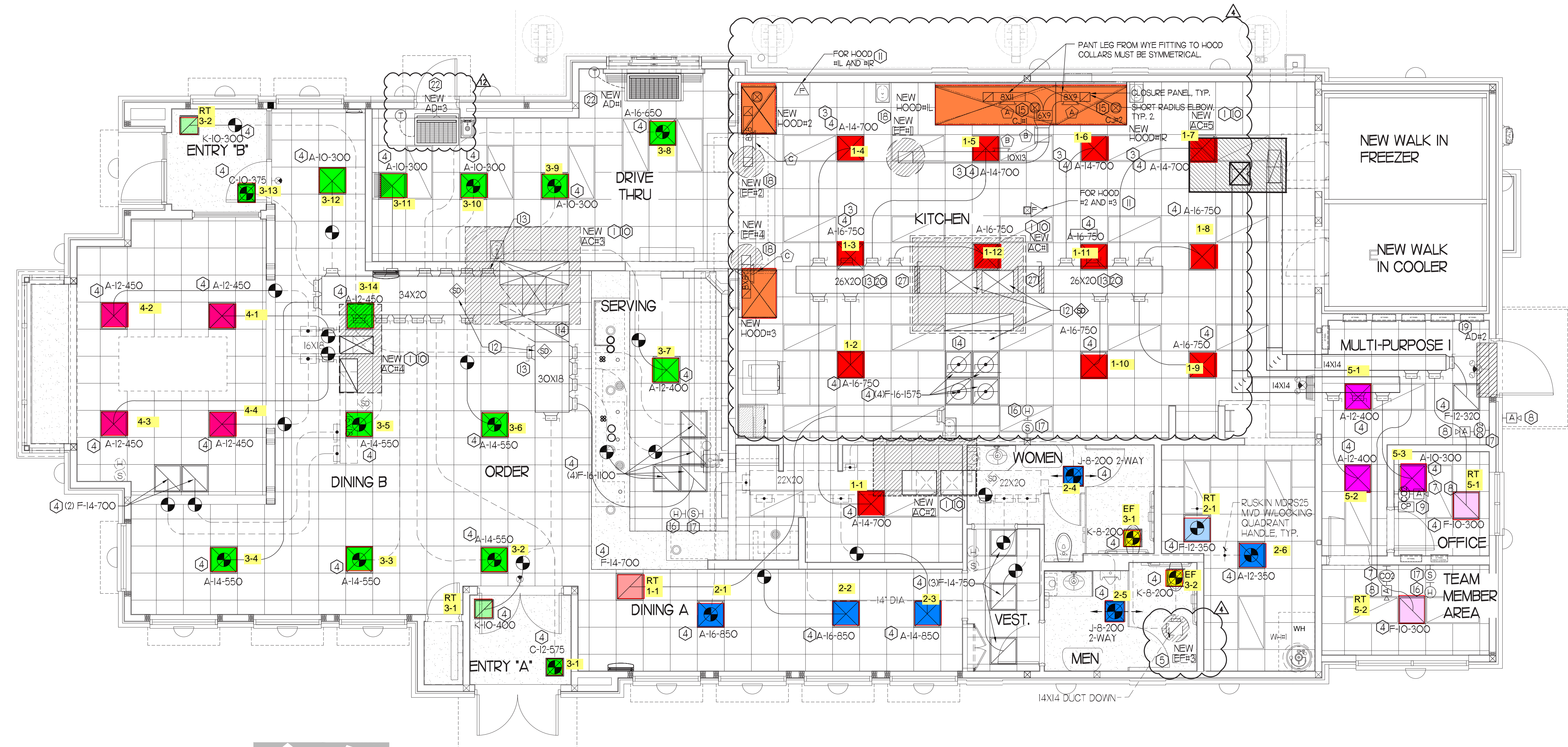
- 16 MOUNT NEW LENOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 17 MOUNT NEW REMOTE TEMPERATURE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL FOR SENSOR SERVING KITCHEN ACH. 5'-8" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- 18 PROVIDE NEW FAN WITH NEW CURB AT LOCATION SHOWN ON PLAN. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS IF PARAPET IS LOWER THAN 42" OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M4 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- 19 EXISTING AIR CURTAIN TO BE RELOCATED AS SHOWN ON PLAN. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
- 20 20X26 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. ELBOW TO BE PARTIALLY LOCATED WITHIN STRUCTURE. BOTTOM OF ELBOW TO BE AT SAME ELEVATION AS BOTTOM OF 26X20 SUPPLY MAIN. 26X20 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 26X20 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- 21 EXISTING AIR DEVICE TO REMAIN. REBALANCE TO CFM SHOWN ON PLAN.
- 22 AIR CURTAIN MOUNTED IN CEILING GRID AS SHOWN IN I/M4.2. MECHANICAL CONTRACTOR SHALL ADJUST AIR DEFLECTORS TOWARD BOTTOM OF DOOR OPENING. PROVIDE DIVERTER BOX FOR ADH.
- 23 LOCATE AHU T'STAT AT 5'-0" AFF. COORDINATE EXACT LOCATION WITH OTHER TRADES. ROUTE WIRING BACK TO ADH AT CEILING.
- 24 SET CONDENSING UNIT ON ROOF USING TWO CURBS PLUS OPES-1 EQUIPMENT CURBS. SECURE CONDENSING UNIT TO CURBS ARRANGED IN PARALLEL. SET LONG SIDE OF CURB PARALLEL TO ROOF SLOPE FLASH TO ROOF BY GC. FINAL LOCATION TO BE DETERMINED IN THE FIELD. ALL MAINTENANCE CLEARANCE OF NEW AND EXISTING EQUIPMENT SHALL BE MAINTAINED.
- 25 LOCATE AHU IN MOUNTED 7'-0" AFF TO BOTTOM OF UNIT. ROUTE REFRIGERANT PIPING ABOVE CEILING AND UP THRU ROOF TO CONDENSING UNIT. REFER TO M3.1 FOR MORE INFORMATION.
- 26 RUN 5/8" CONDENSATE LINE IN WALL DOWN TO DRAIN.
- 27 PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.

HVAC GENERAL NOTES

- 1 DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- 2 MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THE PLAN & RTU SCHEDULE ON SHEET M-3.1. IF AIR FLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER.
- 3 NO PIPING OR DUCTWORK ALLOWED ABOVE ANY ELECTRICAL/CONTROL PANELS.
- 4 COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE, & PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY DESIGN TEAM WITHOUT DELAY IF ACTUAL LOCATION OF EXISTING MECHANICAL EQUIPMENT DOES NOT MATCH FLOOR PLAN.
- 5 CONTRACTOR SHALL CLEAN & REFURBISH ALL EXISTING DUCTWORK. PATCH & REPAIR OPENING AIR TIGHT OF EXISTING DUCTWORK AS REQUIRED (TYPICAL ALL). FIELD VERIFY AND COORDINATE ALL EXISTING HVAC SIZES, LOCATIONS, AND CONDITION PRIOR TO BID.
- 6 REUSE AND REWORK EXISTING HVAC DUCTWORK. PROVIDE NEW SECTION FOR RECONNECTION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID.
- 7 CONTRACTOR SHALL BALANCE, INSPECT, REPAIR, OR REPLACE AS NECESSARY IF REQUIRED FOR EXISTING CEILING MOUNTED AIR DEVICES TO REMAIN. FIELD VERIFY AND COORDINATE EXACT SIZE, AIR QUANTITY, LOCATION, AND CONDITION PRIOR TO BID. AIR FLOW SHALL REMAIN AS IS UNLESS NOTED ON PLAN, OR DIRECTED BY CONSTRUCTION MANAGER. ANY DEFICIENCIES AND/OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY. COORDINATE AIR BALANCE RESULTS WITH CONSTRUCTION MANAGER.

NOTE:
ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET ZERO INCH CLEARANCE TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2, AND NSF LISTED.

NOTE: IF BALANCING DAMPERS ARE NOT EXISTING IN THE BRANCH DUCT OR AT THE TAKE-OFF MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW BALANCING DAMPERS WITHIN THE BRANCH DUCT (TYPICAL).



MECHANICAL FLOOR PLAN
1/4" = 1'-0"
PROJECT NORTH TRUE NORTH



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CHICK-FIL-A
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FSR#02554

BUILDING TYPE / SIZE:	S08-E	
RELEASE:	08/24/2022	
PRINTED FOR:	CONSTRUCTION	
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
4	07/25/2022	FEEDBACK UPDATES
17	08/03/2023	R/D COMMENTS
CONSLTANT PROJECT #	2020.0750	
DATE	08/24/22	
DRAWN BY	AM	
CHECKED BY	DAK	
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MECHANICAL FLOOR PLAN		
SHEET NUMBER		
M1.1		



Chick-fil-A

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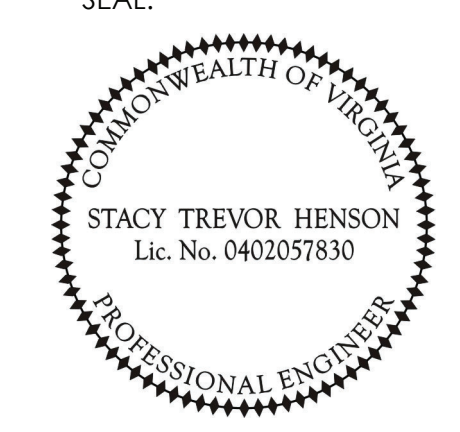
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RELEASE: 08/24/2022

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
4	01/25/2023	REQ. SOW UPDATES

CONSULTANT PROJECT # 2020.0750

DATE 08/24/22

DRAWN BY AM

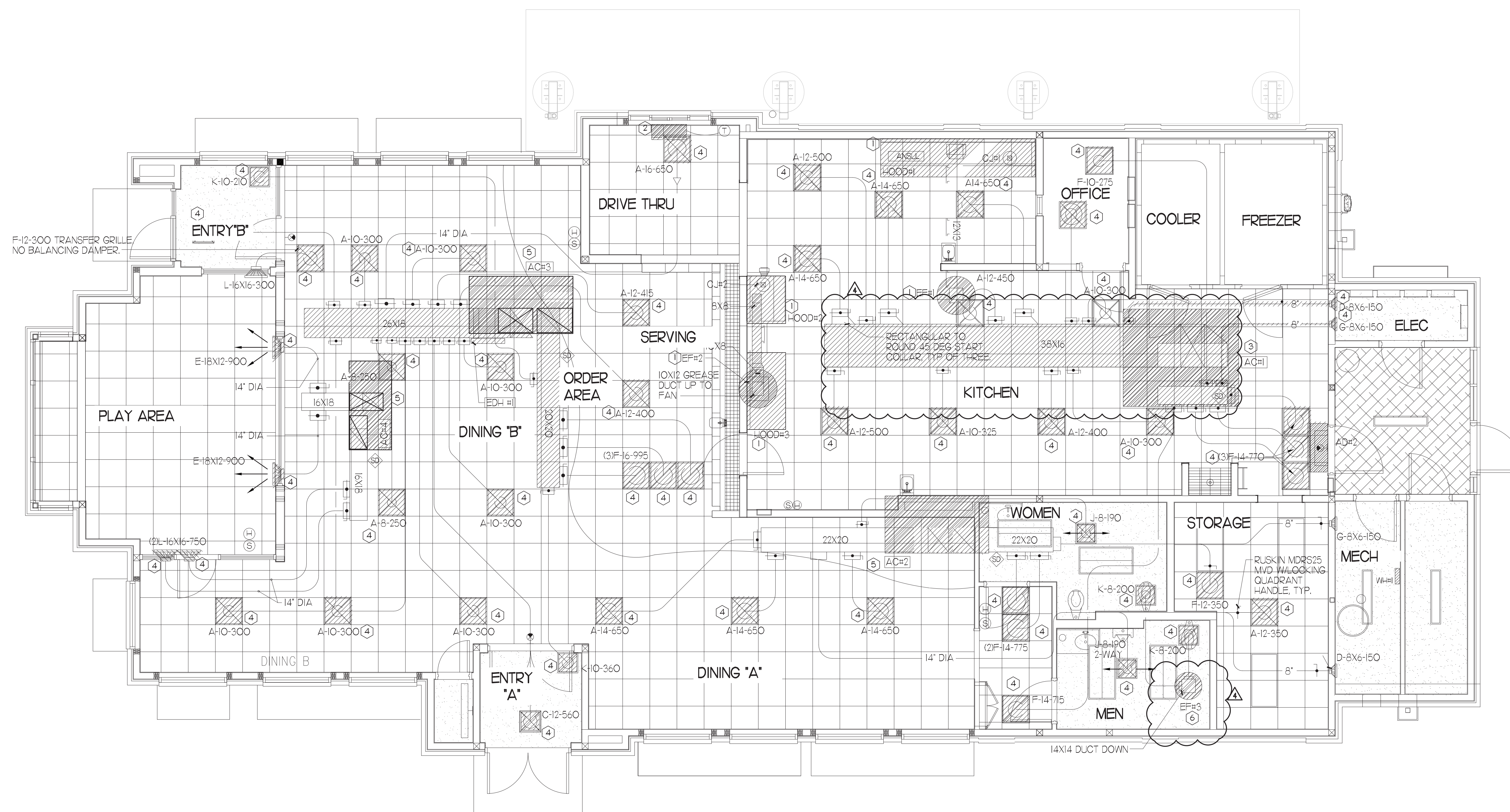
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MECHANICAL DEMO PLAN

SHEET NUMBER

M1.0

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MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"
PROJECT NORTH TRUE NORTH

DEMOLITION LEGEND

	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO REMAIN INTACT.
	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO BE DEMOLISHED.

DEMOLITION NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVE PRIOR TO STARTING WORK. DE-ENERGIZE CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ROOF AFTER REMOVAL OF EXISTING MECHANICAL EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING REQUIREMENTS.
- EXCEPT WHERE NOTED, EXISTING REMOTE TEMPERATURE AND/OR HUMIDITY SENSORS TO REMAIN. IF DURING RENOVATION PURPOSES CONTROLS SHALL BE TAKEN DOWN. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLING AND TO PROVIDE ANY ADDITIONAL WIRING NEEDED.
- MECHANICAL CONTRACTOR SHALL PERFORM ROUTINE MAINTENANCE ON EXISTING ROOFTOP UNITS AND MAKE ANY NECESSARY REFRIGERANT WITH NO LEAKS, NEW BELTS AND REPLACE AND FAN MOTORS NECESSARY.
- DISCONNECT GAS PIPING FROM EXISTING ROOFTOP UNITS) TO BE REPLACED. PLUMBING CONTRACTOR WILL REMOVE EXISTING GAS PIPING TO BE DEMOLISHED.
- CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

DEMOLITION KEY NOTES

- DEMOLISH EXISTING KITCHEN HOOD, ALL ASSOCIATED GREASE DUCT, AND EXHAUST FAN ON ROOF. EXISTING EXHAUST FAN TO BE REPLACED. TURN OVER EXISTING EXHAUST FAN TO OWNER. COVER ROOF OPENING WEATHER-TIGHT FOR RE-USE. REFER TO SHEET MJI & M3I FOR FURTHER INFORMATION.
- EXISTING AIR CURTAIN TO BE REPLACED WITH NEW ADHI. REFER TO MJI AND M3I.
- EXISTING KITCHEN A/C UNIT TO DEMOLISHED. SEE SHEETS MJI AND M3I FOR FURTHER INFORMATION.
- DETACH AND DEMOLISH EXISTING AIR DEVICE SEE SHEET MJI FOR NEW AIR DEVICE LOCATIONS.
- EXISTING ROOFTOP UNIT TO BE REPLACED WITH NEW AS SCHEDULED ON SHEET M3I. SEE SHEETS MJI AND M3I FOR FURTHER INFORMATION.
- EXISTING RESTROOM EXHAUST FAN TO BE REPLACED. TURN OVER EXISTING EXHAUST FAN TO OWNER. COVER ROOF OPENING WEATHER-TIGHT FOR RE-USE. REFER TO SHEET MJI AND M3I FOR FURTHER INFORMATION.

FIELD VERIFY ALL CONDITIONS

NOTE AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT, CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	[EF#]	EXHAUST FAN # (TYP)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	[ACH#]	AIR CONDITIONING UNIT # (TYP)
	SPIN-IN HARD O FLEXIBLE O DIFFUSER		RETURN/EXHAUST (TYP)
	EXISTING EQUIPMENT, DUCT, & AIR DEVICE		SUPPLY DIFFUSER, SQ FACE (TYP)
	NEW EQUIPMENT, DUCT, & AIR DEVICE	①	PLAN NOTE REFERENCE
	REMOTE TEMPERATURE SENSOR		MANUAL VOLUME DAMPER
	HUMIDITY SENSOR		DIRECTION OF THROW ON DIFFUSER
	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR		CO2 SENSOR
	DUCT SIZE (REVERSE FOR ELEVATION VIEWS)		PULL STATION
	1ST NUMBER - HORIZONTAL DIMENSION		CONTROL PANEL
	2ND NUMBER - VERTICAL DIMENSION		SMOKE DETECTOR
	POINT OF DISCONNECTION		
	POINT OF CONNECTION		
	INDICATES 2-WAY DIFFUSER. INDICATES BLANKED OFF SIDE		

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	TONNAGE	AREA SERVED	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)		EXISTING MANUFACTURER/ MODEL	NEW MANUFACTURER/ MODEL	ARI RATINGS	PERCENTAGE OF OUTDOOR AIR	ELECTRICAL DATA		REMARKS	APPROX NET WEIGHT INCLUDING OPTIONS					
			TOTAL	SENS	INPUT	SUPPLY	STAGES	SUPPLY					HP	PSR			VOLTS	PHASE			
NEW ACH	25	KITCHEN	2945	2868	4800	3840	2	8,750	1750	10	10	10	148-240	LENNOX LG-90064B	10.5 EER/10.9 EER	20.0%	208/3/60	142	150	13,447,819/10,121/4	297 LBS
NEW ACH2	65	DINING A	1038	787	2400	1920	2	3,300	1700	2	28	28	148-240	LENNOX LG-90064B	12.2 EER/12.9 EER	20.0%	208/3/60	144	150	12,467,819/10,121/4	1,430 LBS
NEW ACH3	20	DINING B	238.0	173.7	360.0	288.0	2	640.0	1300	7.5	85	85	160C054	LENNOX LG-24044B	12.0 EER/13.2 EER	20.3%	208/3/60	99	100	2,467,819/10,121/4	2,810 LBS
NEW ACH4	5	PLAYGROUND	63.3	47.5	150.0	120.0	2	1,800	400	1	65	65	16A06044	LENNOX LG-06044E	12.7 EER/17.1 SEER	22.2%	208/3/60	33	45	2,467,819/10,121/3/4/5	859 LBS
NEW ACH5	3	MULTI-PURPOSE	35.8	27.6	65.0	52.0	1	1,000	170	5	65	65	-	LENNOX LG-03644E	12.7 EER/18.0 SEER	15.5%	208/3/60	23	30	2,346,781,910,121,314,5	796 LBS

ALL NEW ROOFTOP UNITS SHALL INCLUDE A HUMIDITY CONTROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.

- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
- PROVIDE NEW 1/4" HESH ROOF CURB.
- SEE DETAIL M42 FOR SETTING OF PRODIGY MG AND M-8 IMC BOARD CONTROL/CONTROL PARAMETERS BY MC.
- PROVIDE FACTORY INSTALLED AND UNIT POWERED 16V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED 16V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR.
- PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
- PROVIDE 7" MEV & THROW AWAY FILTERS.
- PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
- ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
- PROVIDE FACTORY COIL HALL GUARD, FIELD INSTALLED.
- PROVIDE UNIT WITH HEAVY BLOWER.
- PROVIDE HUMIDITY CONTROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).
- PROVIDE FACTORY INSTALLED BELT TENSIONER.
- REPLACE EXISTING LENNOX ROOFTOP UNIT WITH NEW SAME SIZE WITH THE SAME MANUFACTURER LENNOX PLACED ON SAME LOCATION ON EXISTING CURB.
- EXISTING UNIT TO REMAIN.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.

TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER AND TO ENGINEER OF RECORD.

NEW HVAC EQUIPMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING CLEARANCES, & SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE FOR ALL INSPECTIONS, SERVICE, REPAIR, OR REPLACEMENT.

NEW ROOFTOP UNITS ONLY, MECHANICAL CONTRACTOR SHALL RELOCATE THE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR FROM THE BLOWER SECTION TO THE SUPPLY DUCT DROP ABOVE THE FIRST 90 DEGREE DUCT FITTING.

NEW ROOFTOP UNITS ONLY, THE MECHANICAL CONTRACTOR SHALL SPLICE NEW PLENUM RATED CABLE BETWEEN THE FACTORY SMOKE DETECTOR AND THE FACTORY JACK PLUG. THE NEW WIRING SHALL BE ROUTED THRU THE ROOFTOP UNIT BASEPANEL RACEWAY. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS.

EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TP SPEED (FFS)	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
NEW EF#1	193	.65	964	4364	1/2	HOOD#1	16V15B	LOREN COOK	12,3,4,5,6
NEW EF#2	701	.75	1238	4558	1/2	HOOD#2	16V15B	LOREN COOK	12,3,4,5,6
NEW EF#3	400	.375	1294	3,071	1/8	RESTROOMS	ACED-9003	LOREN COOK	2,7,8,9,10,11
NEW EF#4	701	.75	1298	4,861	1/2	HOOD#3	16V15B	LOREN COOK	12,3,4,5,6

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE UL 782 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRON COMPANY FOR THE FAN/CURB PACKAGE. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-391-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

REMARKS

- PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
- PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
- PROVIDE FACTORY INSTALLED HINGED BASE KIT.
- PROVIDE AND INSTALL ROOFTOP SOLUTIONS 62 DWP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-919-7034.
- PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- PROVIDE BROSSCREEN.
- BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR.
- STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
- PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
- MOUNT TO EXISTING CURB. FIELD VERIFY CONDITION OF CURB PRIOR TO INSTALLATION.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA KITCHEN	VARIES	24X24	LAY-IN	17
C	PRICE MODEL 80 EGGRATE STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	19X19	BEVELLED	13,5,6
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	18X10	20X12	SURFACE	1
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	17
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12X12	24X24	LAY-IN	16,7
J	PRICE MODEL 80 EGGRATE STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	15X15	BEVELLED	12,3,5,6
K	PRICE MODEL APDC ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X14	16X16	SURFACE	14,5,6
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	12X12	14X14	SURFACE	1

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-391-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

REMARKS

- STANDARD OFF WHITE FINISH.
- PROVIDE MODEL VCS1 NECK DAMPER.
- SEE DRAWING M11 FOR THROW.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
- PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL IM-1.
- FACTORY INSULATED R-6 BACKPAN.

OUTDOOR AIR CALCULATION

ROOM NUMBER & NAME	AREA SQ. FT.	NO. OF PEOPLE	REQD OA CFM/PERSON	REQD OA CFM/SQ FT	TOTAL OSA	REQD EXHAUST AIR PER FIXTURE	REQD OSA AC-1	REQD OSA AC-2	REQD OSA AC-3	REQD OSA AC-4	REQD OSA AC-5
KITCHEN	1267	25	7.50	0.12	339.5		339.5				
STORAGE	12	0	5.00	0.06	0.7				0.7		
RR VESTIBULE	75	0	5.00	0.06	4.5				4.5		
MENS RR	91	0	0.00	0.00	0.0	50/70					
WOMENS RR	106	0	0.00	0.00	0.0	50/70					
DINING A	224	16	7.50	0.18	160.3			160.3			
MECH ROOM	23	0	0.00	0.00	0.0						
DRIVE THRU	334	2	7.50	0.18	75.1				75.1		
SERVING AREA	157	4	7.50	0.18	58.3				58.3		
WAITING AREA	292	0	5.00	0.06	17.5				17.5		
N AND S DINING B	864	68	7.50	0.18	665.5				665.5		
ENTRY 'A'	46	0	5.00	0.06	2.8				2.8		
ENTRY 'B'	68	0	5.00	0.06	4.1				4.1		
W. DINING B	287	20	7.50	0.18	201.7					201.7	
MULTI-PURPOSE	252	0	5.00	0.06	15.1						47.7
OFFICE	54	1	5.00	0.06	8.2						8.2
TOTALS						100/140	339.50	165.50	822.10	201.70	55.9
							424.38	206.88	1027.63	252.13	69.9
							1,750	700	1,300	400	170

OUTSIDE AIR BASED ON THE 2018 INTERNATIONAL MECHANICAL CODE & PER ASHRAE 62.1-2018 MINIMUM VENTILATION RATES. ZONE AIR DISTRIBUTION EFFECTIVENESS BASED OFF 2018 INTERNATIONAL MECHANICAL CODE TABLE 403.3.11.2.

AIR DOOR SCHEDULE

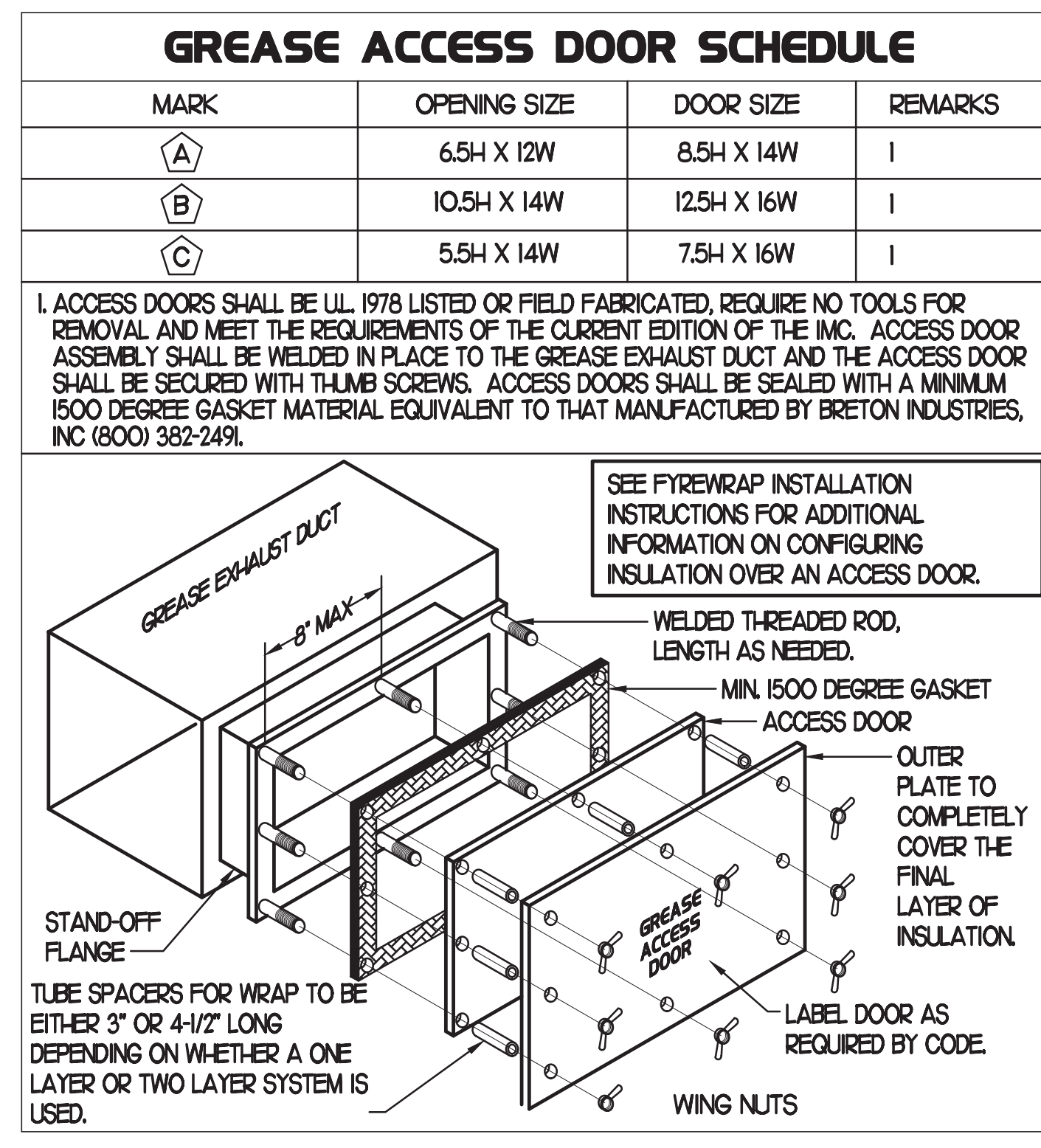
MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1765	3670 FPM	10 KW	3/4	DRIVE THRU	CH4-H48E	POWERED-AIRE	1,2,3,5
AD#2	3267	428	NA	3/4	REAR DOOR	DBT-H48	POWERED-AIRE	4
AD#3	1977	3445 FPM	10 KW	3/4	DRIVE THRU	CH4-H36E	POWERED-AIRE	1,2,3

NOTES

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRON COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-391-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

REMARKS

- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED FIELD INSTALLED BY MC REMOTE W ALL SWITCHES FOR HEATING ON/OFF AND FAN ON/OFF SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- PROVIDE WITH A DIVERSTER BOX.

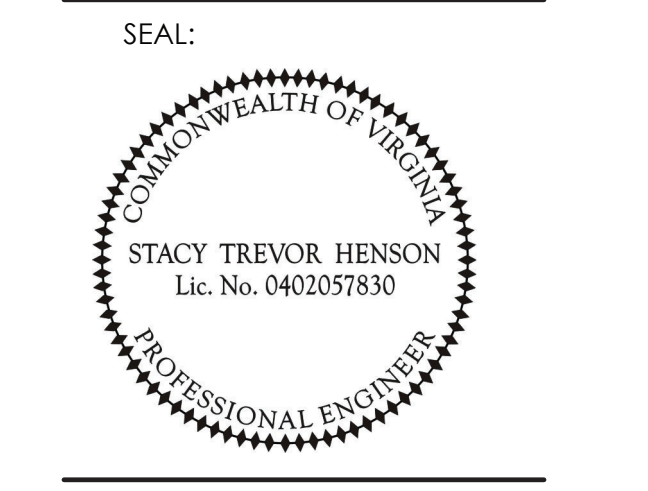


KITCHEN PRESSURIZATION

RETURN AIR FROM SIDE DINING BACK TO KITCHEN	-700
EXISTING AC-1 OA (25 TON-28 OA)	+1750
NEW EF-1 KITCHEN HOOD	-193
NEW EF-2 KITCHEN HOOD	-701
NEW EF-4 KITCHEN HOOD	-701
TOTAL	-865

DINING PRESSURIZATION

NEW AC-2 OA (6.5 TON-21.28 OA)	+700
NEW AC-3 OA (20 TON-20.31 OA)	+1300
NEW AC-4 OA (5 TON-22.28 OA)	+400
NEW AC-5 OA (3 TON-15.55 OA)	+170
EXISTING EF-3 RESTROOM EXHAUST	-400
RETURN AIR FROM SIDE DINING BACK TO KITCHEN	-700
BUILDING POSITIVE PRESSURE TOTAL	+1470
BUILDING POSITIVE PRESSURE	+605



CHICK-FIL-A

Parham Road, 1529 N. Parham Road, Richmond, VA 23229

FSR#02554

BUILDING TYPE / SIZE: S08-E
RELEASE: 08/24/2022
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REVISION SCHEDULE

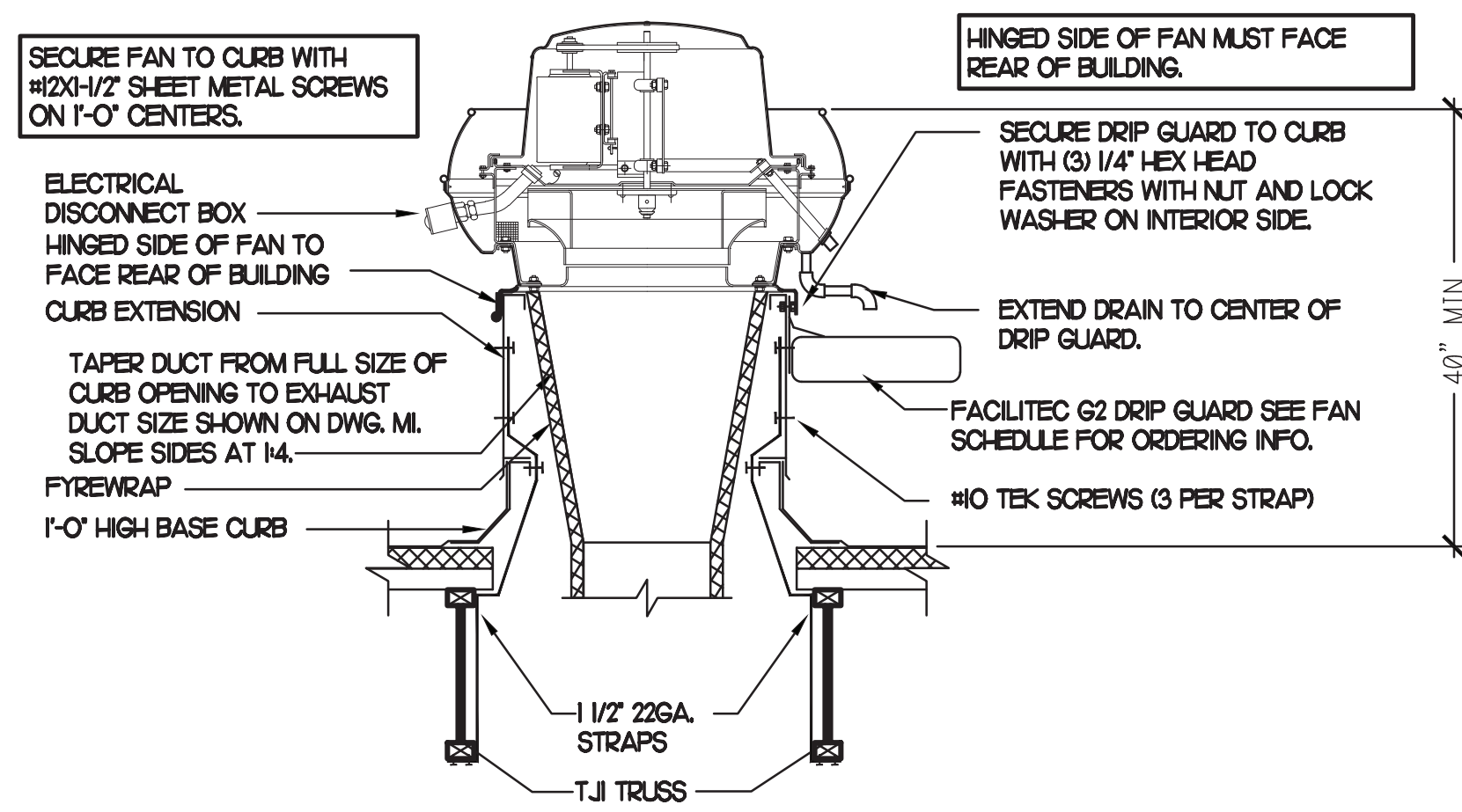
NO.	DATE	DESCRIPTION
1	01/25/2021	FEEDBACK REVIEWS
17	08/24/2022	RD COMMENTS

CONSULTANT PROJECT #: 2020.0759
DATE: 08/24/22
DRAWN BY: AM
CHECKED BY: DAK

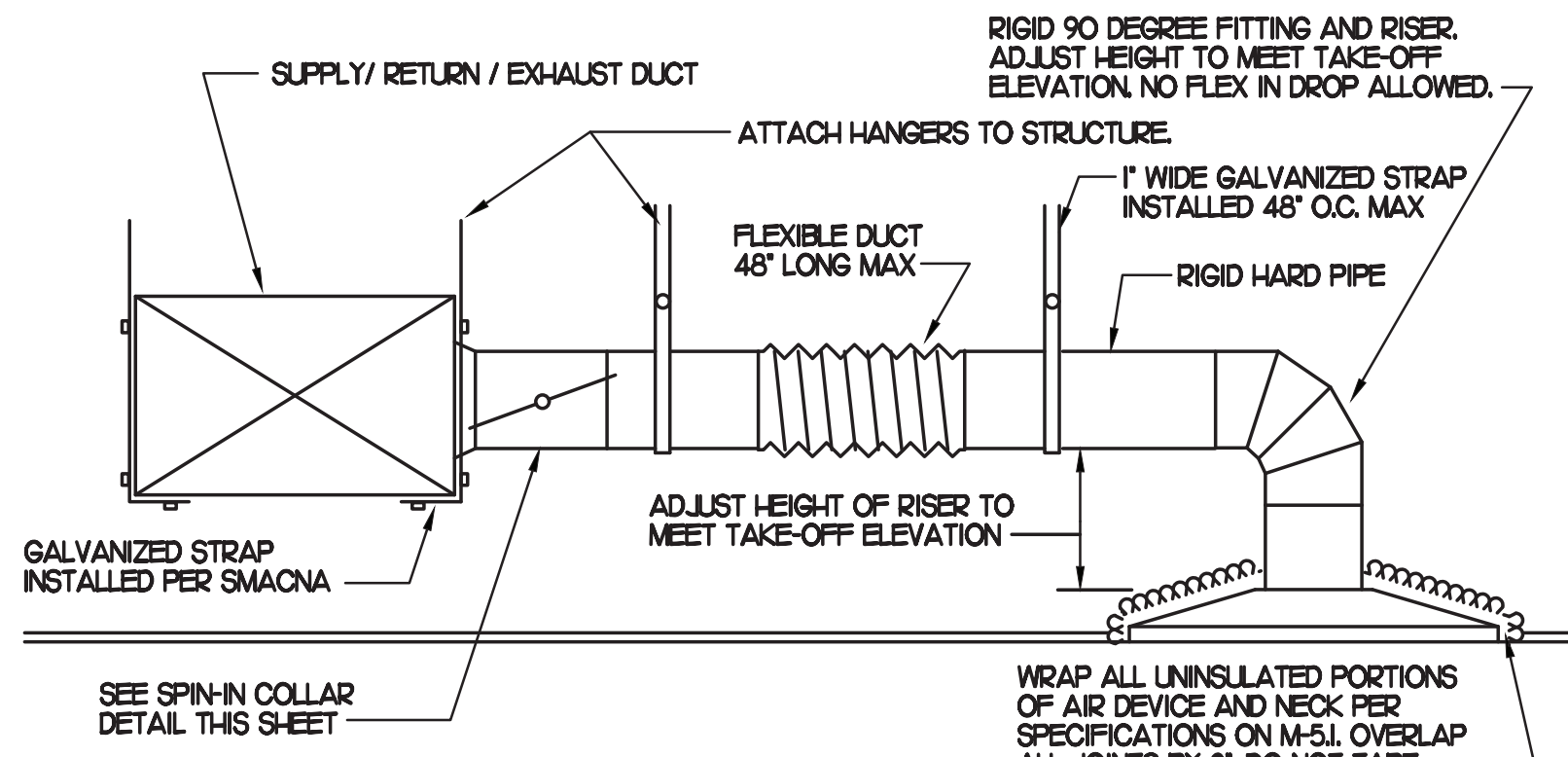
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SHEET: MECHANICAL SCHEDULES

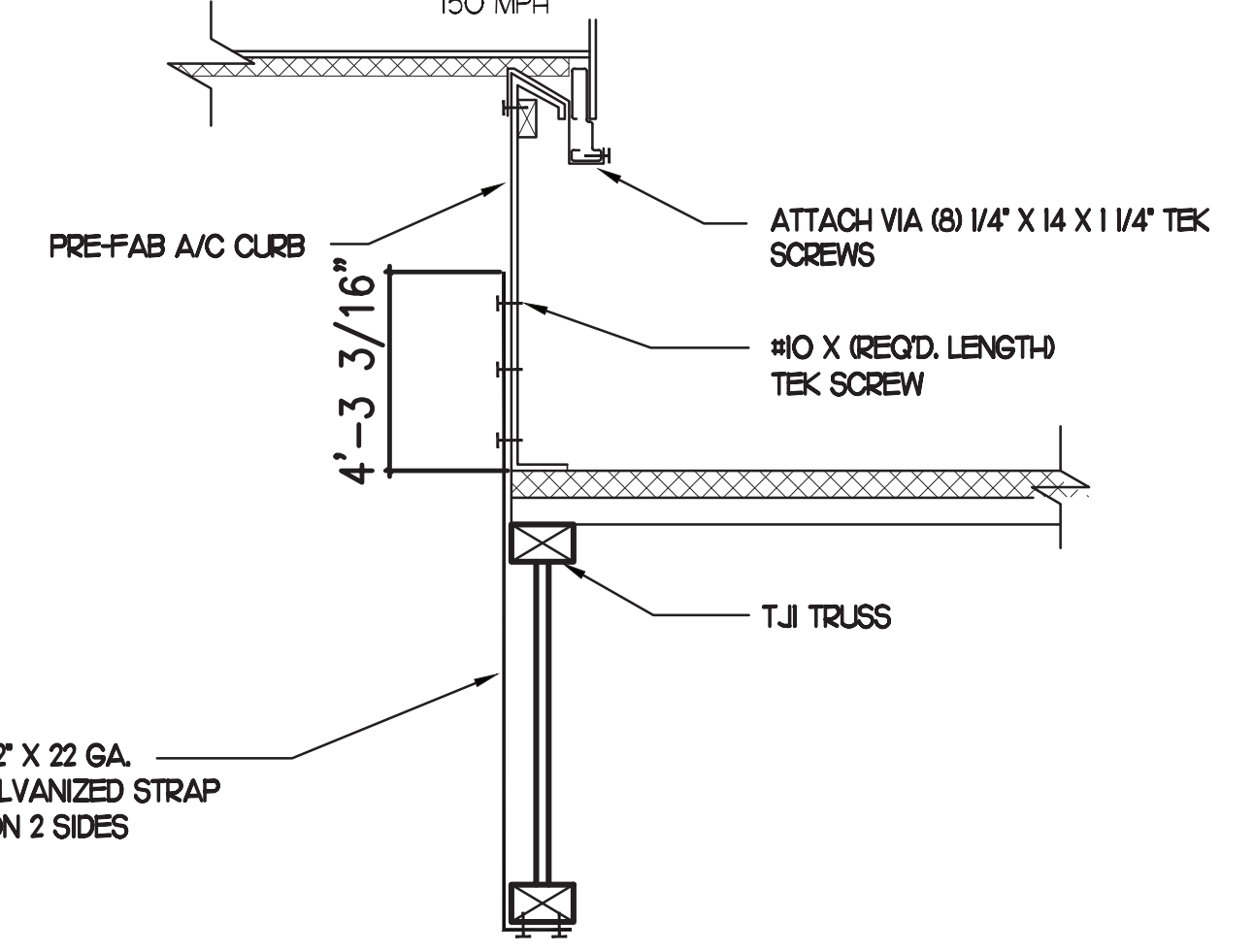
SHEET NUMBER
M3.1



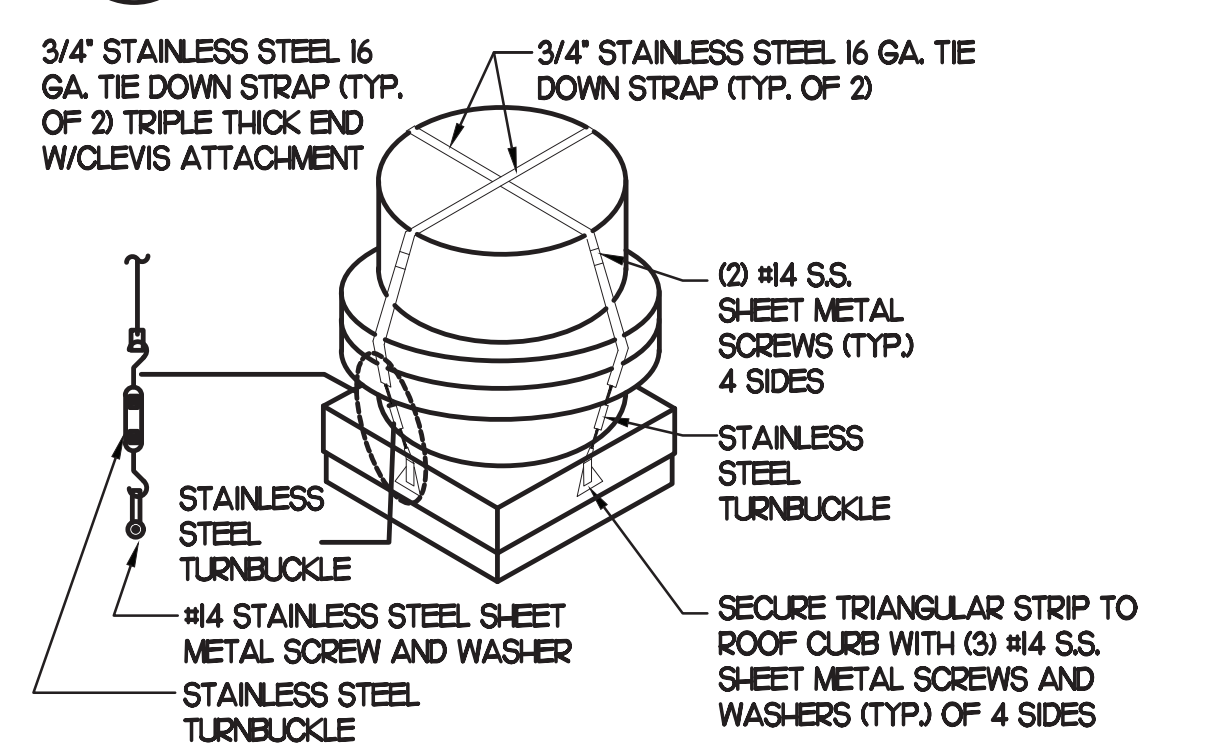
1 KITCHEN HOOD EXHAUST FAN
NO SCALE



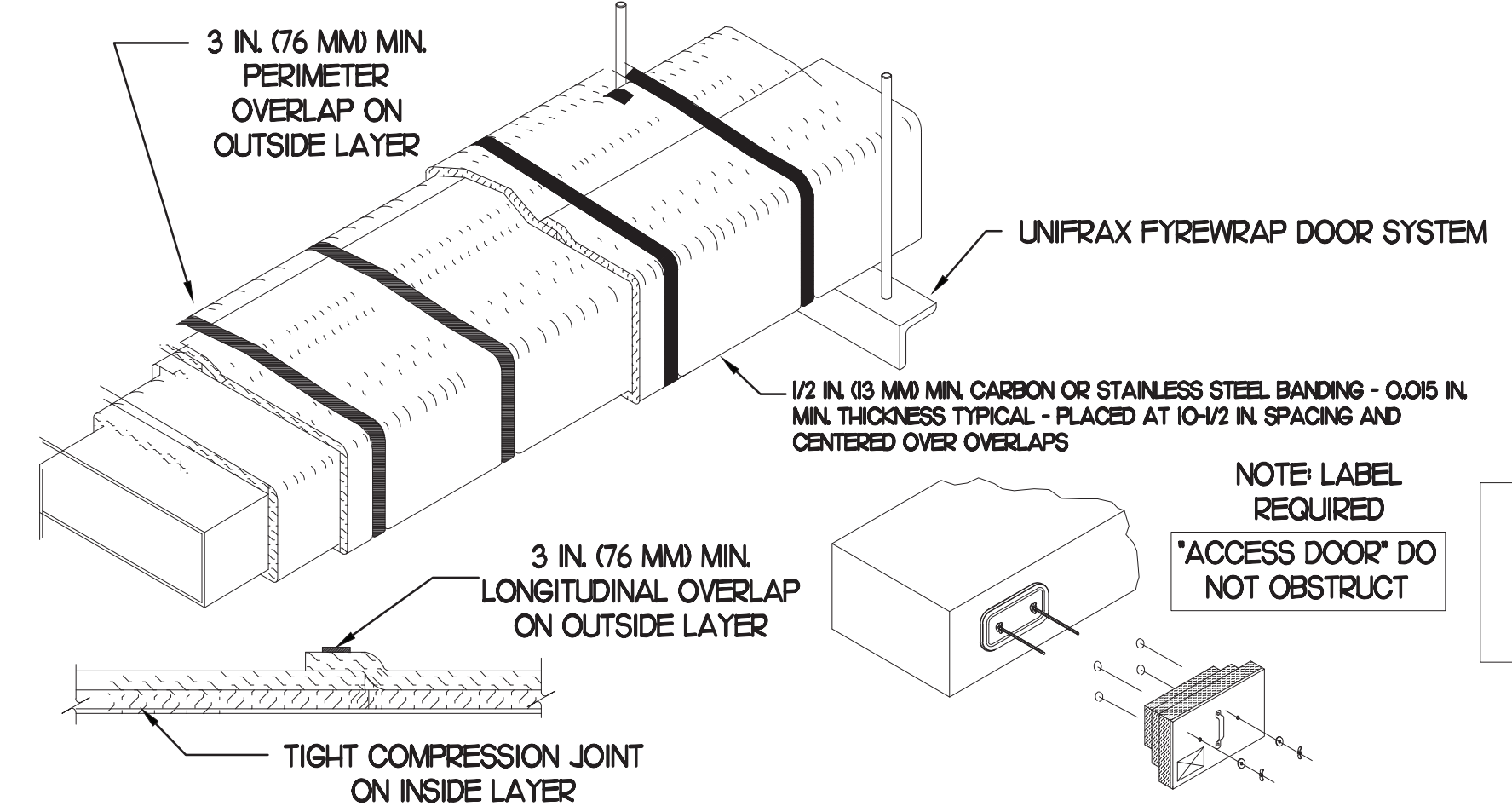
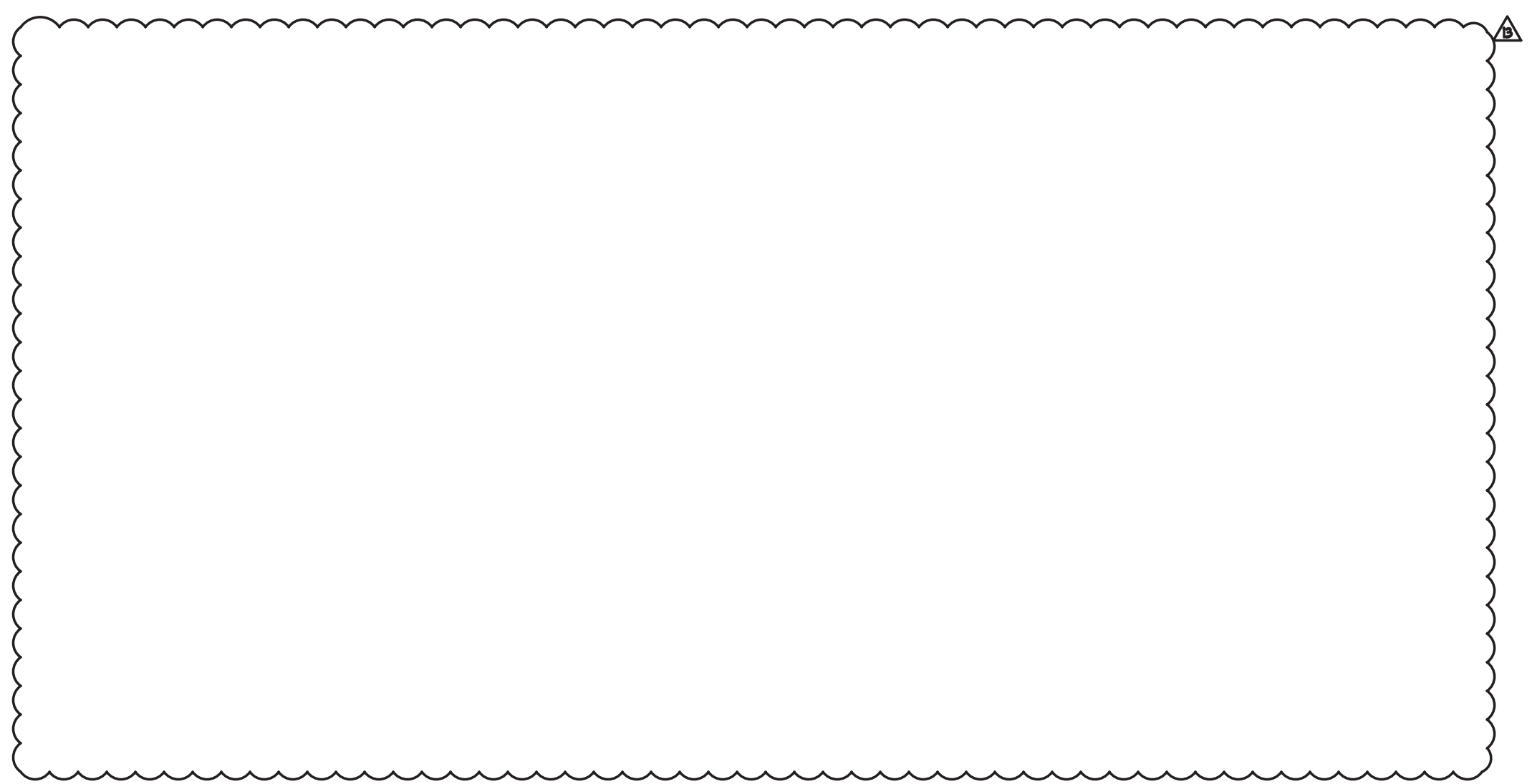
2 SAG/RAG/GRILLE TAKE-OFF
NO SCALE



3 RTU TIE-DOWNS DETAIL
NO SCALE

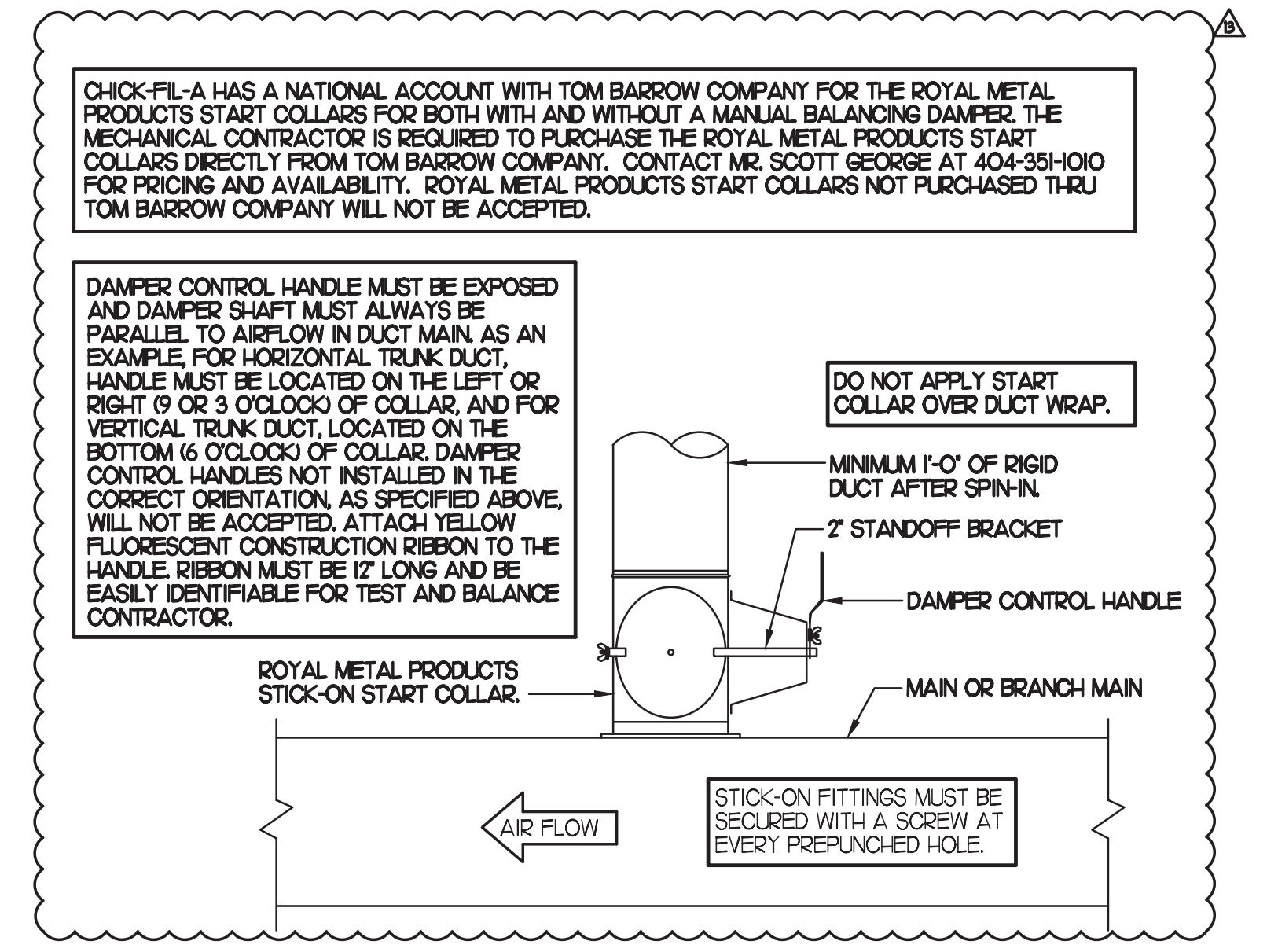


4 FAN SECURING DETAIL
NO SCALE

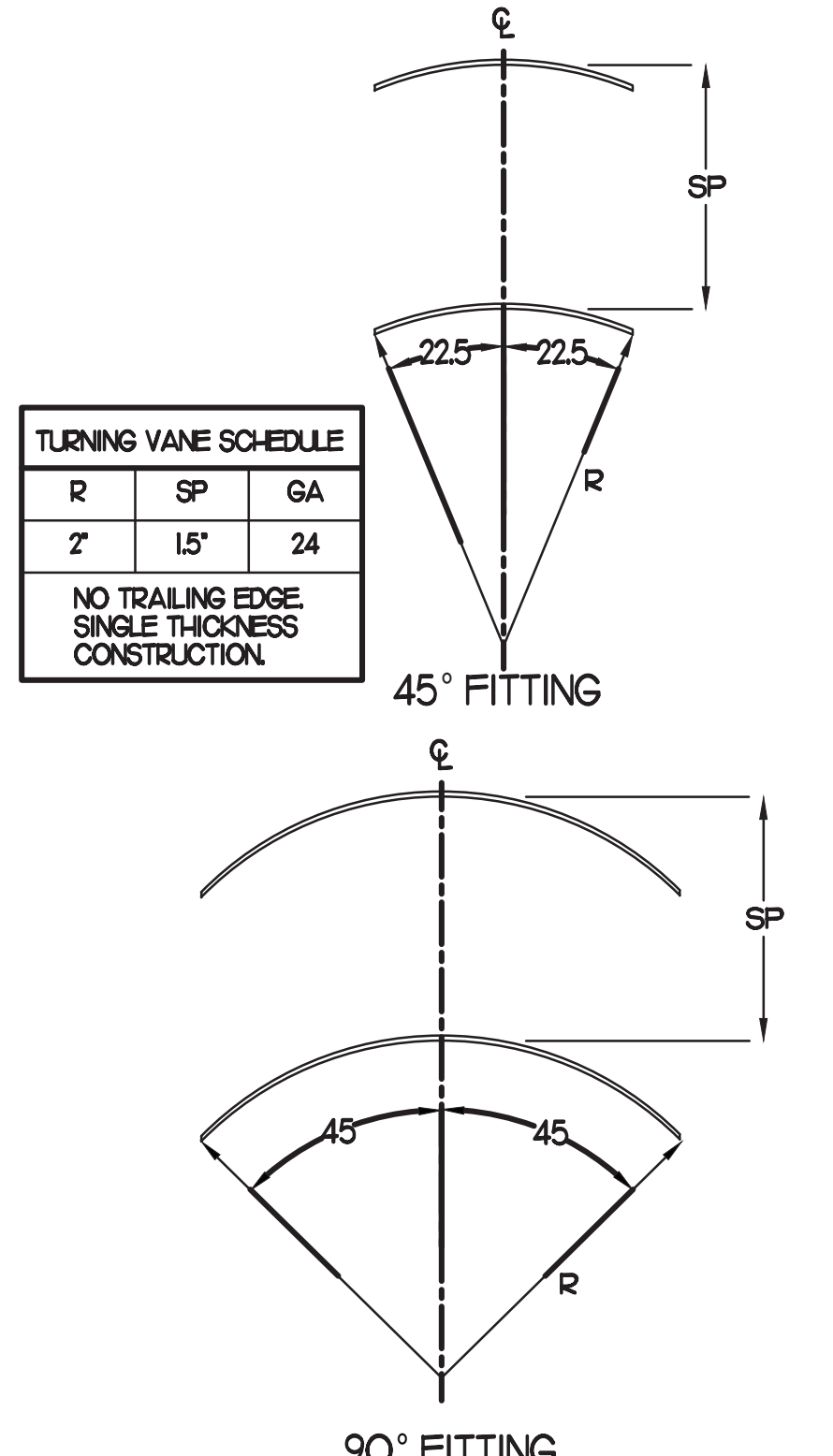


- UNIFRAX FIREWRAP ELITE 1.5 DUCT INSULATION HAS BEEN TESTED IN ACCORDANCE WITH ASTM E 2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
- COMPLIANT TO THE FOLLOWING CODES:
 BUILDING CODE: INTERNATIONAL BUILDING CODE EDITION 2018
 ELECTRICAL CODE: NATIONAL ELECTRICAL CODE EDITION 2017
 ENERGY CODE: INTERNATIONAL ENERGY CONSERVATION CODE
 PLUMBING CODE: INTERNATIONAL PLUMBING CODE EDITION 2018
 MECHANICAL CODE: INTERNATIONAL MECHANICAL CODE EDITION 2018
 FUEL GAS CODE: INTERNATIONAL FUEL GAS CODE EDITION 2018
 ACCESSIBILITY CODE: ANSI A117.1 EDITION 2009
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
- GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
- UNIFRAX FIREWRAP ELITE 1.5 ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
- ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
- SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- UNIFRAX FIREWRAP ELITE 1.5 DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- UNIFRAX FIREWRAP ELITE 1.5 DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.

6 GREASE EXHAUST DUCT PROTECTION TO COMBUSTIBLES DETAIL
NO SCALE



7 START COLLAR
NO SCALE



8 TURNING VANES
NO SCALE



Chick-fil-A
 Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998

INTERPLAN
 INTERPLAN LLC
 AR0011595
 CA 8660

ARCHITECTURE
 ENGINEERING
 PERMITTING

220 E. CENTRAL PKWY, STE 4000
 ALTAMONTE SPRINGS, FL 32701
 407.645.5038



CHICK-FIL-A
 Parham Road
 1529 N. Parham Road,
 Richmond, VA 23229

FSR#02554
 BUILDING TYPE / SIZE: S08-E
 RELEASE: 08/24/2022

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
02	08/11/2022	REV COMMENTS
03	08/31/2022	ARCH CIVIL COORDINATION

CONSULTANT PROJECT # 2020.0750
 DATE 08/24/22
 DRAWN BY AM
 CHECKED BY DAK
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SHEET MECHANICAL DETAILS

SHEET NUMBER
M4.1



Chick-fil-A

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
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CA 8660
ARCHITECTURE
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ALAMONTE SPRINGS, FL 32701
407.645.5038

SEAL:



CHICK-FIL-A
Parham Road
1529 N. Parham Road,
Richmond, VA 23229

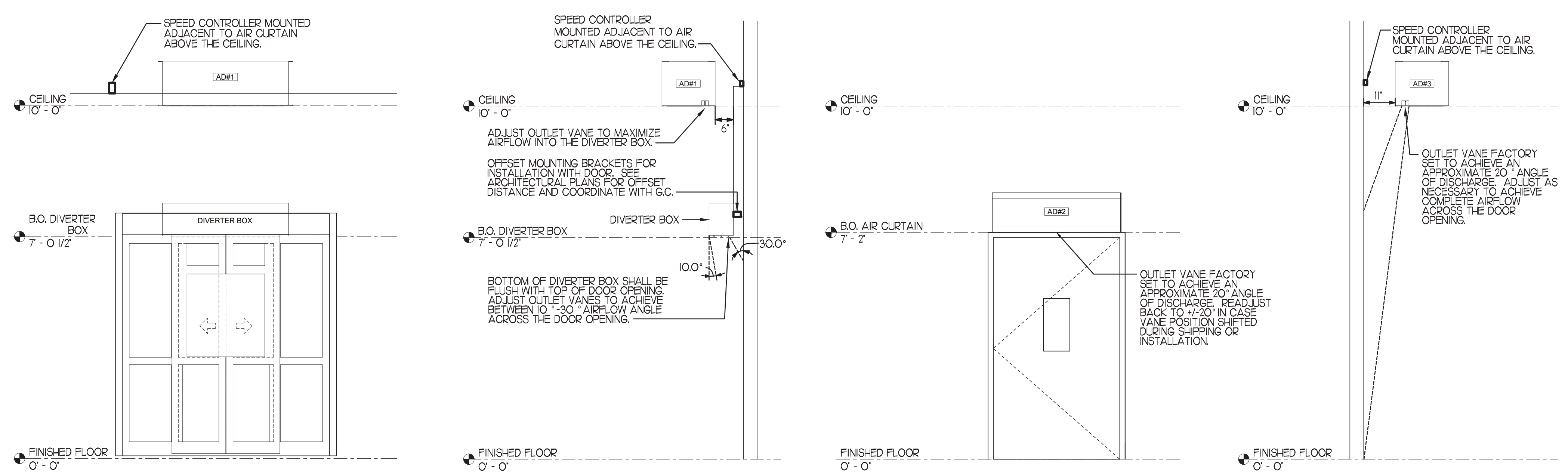
FSR#02554

BUILDING TYPE / SIZE: S08-E
RELEASE: 08/24/2022
PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
12	08/03/2023	BID COMMENTS

CONSULTANT PROJECT # 2020.0750
DATE 08/24/22
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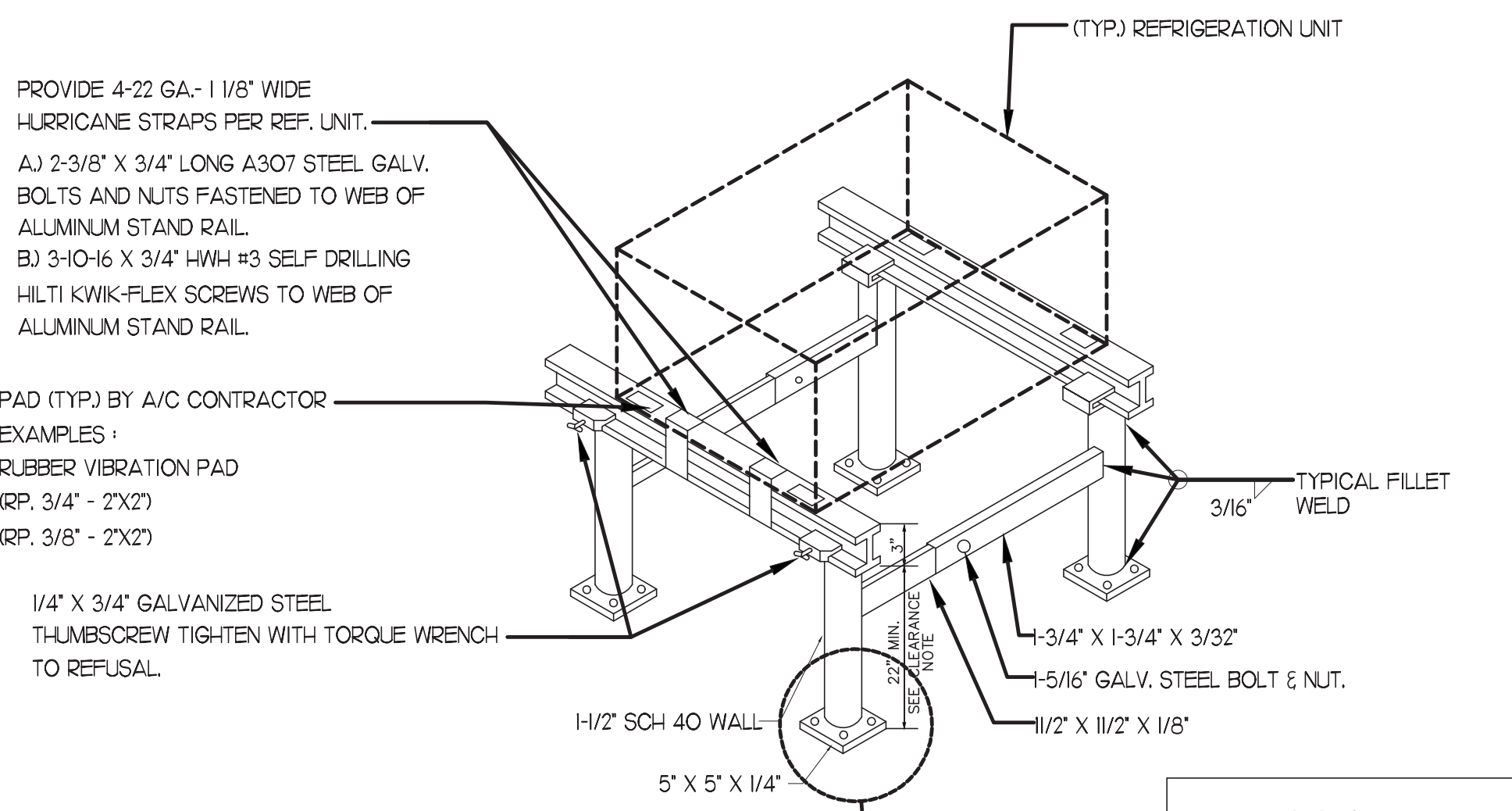
SHEET MECHANICAL DETAILS
SHEET NUMBER
M4.2



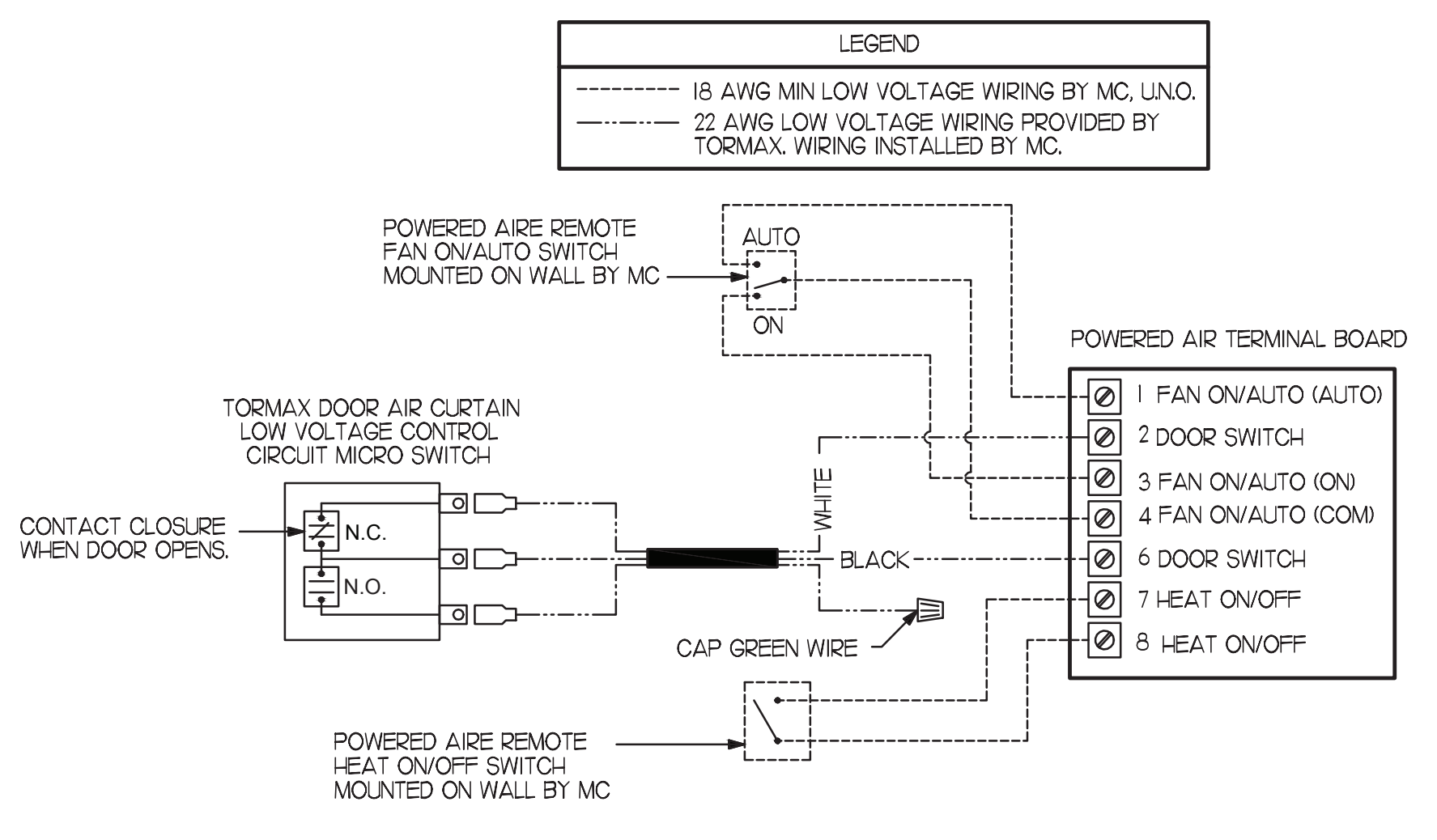
1 AIR CURTAIN AND AIR DIVERTER BOX MOUNTING

NO SCALE

CLEARANCE NOTE:
CONTRACTOR TO VERIFY THICKNESS OF ROOF ASSEMBLY. 18" CLEARANCE REQUIRED FROM BOTTOM OF SUPPORT RACK STRUCTURAL MEMBER TO TOP OF ROOF ASSEMBLY. IF ANY PIECE OF EQUIPMENT MOUNTED ON RACK EXCEEDS 36" IN THE LATERALLY MOUNTED DIMENSION, THE CLEARANCE NEEDS TO BE INCREASED TO 24".



- NOTES:**
- 1) ALL CONSTRUCTION TO MEET ALUMINUM ASSOCIATION SPECS.
 - 2) VIBRATION INSULATOR PADS SHALL BE PROVIDED BY THE A/C CONTRACTOR SO AS NOT TO CAUSE VIBRATION TO EXISTING SUB-STRUCTURE.
 - 3) ALUMINUM EQUIPMENT STAND SUPPORTS AS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLA. OR APPROVED EQUAL STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE AND SHALL BE SIZED AND INSTALLED ACCORDING TO THE MANUFACTURERS LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: (800) 266-7232
 - 4) STRAP DOWN UNITS WITH 22 GAUGE STRAPS AT 4 CORNERS WITH TEK SCREWS



2 AIR CURTAIN WIRING DIAGRAM

NO SCALE

3 CONDENSING UNIT FRAMING SUPPORT DETAIL

NO SCALE

