

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.

DEMOLITION NOTES

- ① CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- ② DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- ③ DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVED PRIOR TO STARTING WORK. DE-ENERGIZED CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
- ④ MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ROOF AFTER REMOVAL OF EXISTING MECHANICAL EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING REQUIREMENTS.
- ⑤ EXCEPT WHERE NOTED, EXISTING REMOTE TEMPERATURE &/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. VERIFY EXISTING UNIT CONTROLS ARE IN GOOD WORKING ORDER. IF NOT, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.
- ⑥ MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ALL RTUs AT END OF PROJECT AND PRIOR TO REOPENING. MC TO PROVIDE PROPOSAL TO FACILITIES MANAGER, CONSTRUCTION MANAGER, AND OPERATOR TO CORRECT EXISTING RTU PUNCH ITEMS IDENTIFIED BY HALTON.
- ⑦ CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

MECHANICAL DEMOLITION FLOOR PLAN

SCALE: 1/4"=1'-0"

DEMOLITION LEGEND	
	EXISTING EQUIPMENT, DUCT, AIR DEVICE ETC. TO REMAIN INTACT
	EQUIPMENT, DUCT, AIR DEVICE ETC. TO BE DEMOLISHED

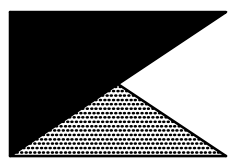
DEMOLITION KEY NOTES

- ① DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET M1.I FOR NEW CONNECTION.
- ② DEMOLISH EXISTING HOOD, ALL ASSOCIATED GREASE DUCT, CAPTURE JET FAN AND DIFFUSER (IF EXISTING), EXHAUST FAN, AND ITS ASSOCIATED ROOF CURB. PATCH AND REPAIR ROOF TO MATCH SURROUNDING CONSTRUCTION.
- ③ DEMOLISH EXISTING KITCHEN A/C UNIT, UNIT CONTROLS (REMOTE TEMP SENSOR, REMOTE HUMIDITY SENSOR, TSTAT, REMOTE SMOKE DETECTOR TEST/RESET STATION, ETC.), SUPPLY/RETURN AIR DROPS, ALL ASSOCIATED SUPPLY/RETURN DUCT & AIR DEVICES (UNLESS NOTED OTHERWISE). COVER ROOF CURB WEATHER-TIGHT FOR RE-USE. SEE SHEET M1.I.
- ④ EXISTING REMOTE TEMPERATURE AND/OR REMOTE HUMIDITY SENSORS TO BE REPLACED WITH NEW. DEMOLISH ALL ASSOCIATED CONTROL WIRING. SEE SHEET M1.I FOR FURTHER INFORMATION.
- ⑤ DEMOLISH EXISTING AIR DEVICE AND ASSOCIATED BRANCH DUCT. SEAL PLENUM AIR-TIGHT.
- ⑥ EXISTING RTU TO BE REPLACED WITH NEW AS SCHEDULED ON SHEET M3.I. UNLESS NOTED OTHERWISE, DEMOLISH ALL EXISTING UNIT CONTROLS (REMOTE TEMP SENSOR, REMOTE HUMIDITY SENSOR, TSTAT, REMOTE SMOKE DETECTOR ANNUNCIATOR, ETC.). EXISTING ROOF CURB AND SUPPLY & RETURN DUCT TO REMAIN. COVER CURB WEATHER-TIGHT FOR RE-USE. GC BID ALTERNATE MATERIALS AND LABOR TO BE BILLED UNDER SEPARATE CONTRACT AND COORDINATED VIA WORK ORDER WITH FEQ SPECIALIST.



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CHICK-FIL-A
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FSR#02348

BUILDING TYPE / SIZE: S06C-R
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SHEET
MECHANICAL
DEMO PLAN
SHEET NUMBER

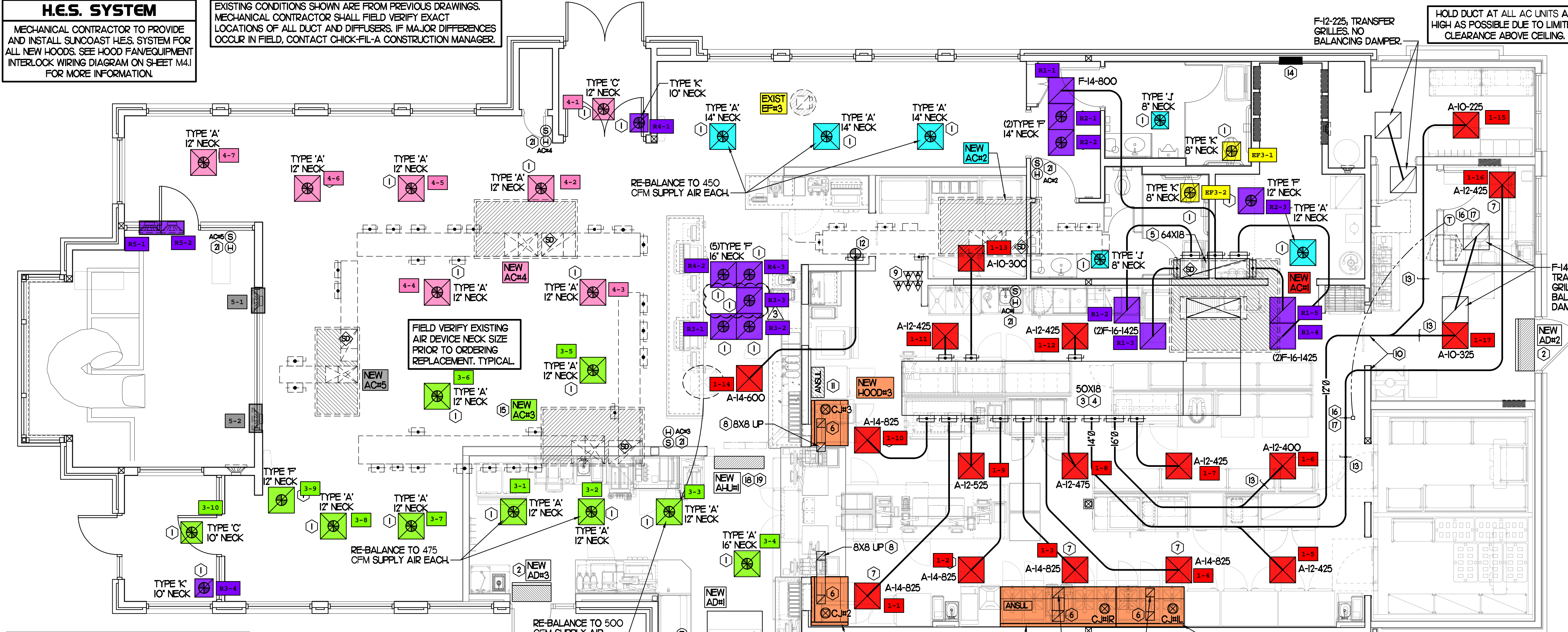
M0.1

CONSTRUCTION

H.E.S. SYSTEM

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL NEW HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M4.I FOR MORE INFORMATION.

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.



LEGEND

A-12-400	TYPE - NECK SIZE - CFM
	SPIN-IN FITTING, MVD, NO SCOOP
	REMOTE TEMPERATURE SENSOR
	REMOTE HUMIDITY SENSOR
	SMOKE DETECTOR
	GREASE ACCESS DOOR TYPE
	DIRECTION OF THROW
	KEY NOTE REFERENCE
	EXISTING START COLLAR
	EXISTING RUNOUT TO REMAIN
	EXISTING RETURN/EXHAUST (TYP)
	EXISTING SUPPLY DIFFUSER (TYP)
	NEW RETURN/EXHAUST, UNO. (TYP)
	NEW SUPPLY DIFFUSER, UNO. (TYP)
	NEW DUCT (TYP)
	SMOKE DETECTOR TEST/RESET STATION

SHEET NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- REFER TO ELEVATIONS ON M2.I AND HOOD DETAILS ON M4.I.I FOR CAPTURE-JET FANS DUCTING REQUIREMENTS.
- HARDPIPE SHALL BE USED FOR ALL TAKE-OFFS EXCEPT WHERE ALLOWED BY DETAIL 1/M3.I. USE OF FLEXIBLE DUCT SHALL BE LIMITED TO THOSE SITUATIONS WHERE NO OTHER MEANS TO ACCOMPLISH ROUTING IS POSSIBLE.
- COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE AND 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.
- MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THIS PLAN & IN SCHEDULES ON SHEET M3.I. IF AIRFLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER. TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER.

KEY NOTES (THIS SHEET ONLY)

- CONNECT NEW AIR DEVICE TO EXISTING TAKE-OFF. IF NECESSARY, MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW DUCT IN ORDER TO MAKE CONNECTION TO AIR DEVICE IN NEW LOCATION. ANY FLEX DUCT USED SHALL NOT BE LONGER THAN 4'-0". SEE DETAIL 1/M3.I. COORDINATE AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- BRANCH TAKE-OFFS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. PROVIDE TURNING VANES IN ELBOWS, INCLUDING THE SUPPLY AIR DROP FROM UNIT.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW.
- HALTON MBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. REFER TO SHEET M2.I AND M4.I.I FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- GREASE DUCT UP THRU ROOF FROM FULL SIZE OF MBD COLLAR. OFFSETS THRU ROOF NOT TO BE GREATER THAN 45 DEGREES. SEE SHEET M1.2 FOR CONTINUATION.
- MOUNT NEW SMOKE DETECTOR TEST/RESET STATIONS FOR ALL A/C UNITS ON WALL. COORDINATE EXACT LOCATION WITH KITCHEN ELEVATIONS AND ELECTRICAL. CONTACT SUNCOAST ENVIRONMENTAL CONTROLS AT 1-877-544-6679 TO PURCHASE A NEW SMOKE DETECTOR TEST/RESET STATION FOR EACH RTU.
- ROUTE DUCT BETWEEN WALL STUDS ABOVE CEILING. COORDINATE WITH ARCH AND STRUCTURAL FOR EXACT LOCATION. USE 1" WRAP AT WALL PENETRATION.
- ANSUL UTILITY CABINET. LOCATE TOP OF CABINET 0'-2" BELOW CEILING. COORDINATE FINAL MOUNTING LOCATION WITH KITCHEN EQUIPMENT.
- PROVIDE & INSTALL NEW SPIN-IN COLLAR AND ROUTE NEW DUCT TO NEW GRILLE AS SHOWN.
- RUSKIN MODEL MDRS25 OR EQUIVALENT MANUAL VOLUME DAMPER WITH LOCKING QUADRANT HANDLE.
- CONTACT SUNCOAST ENVIRONMENTAL CONTROLS TO PURCHASE A NEW TSTAT FOR EACH NEW RTU. NEW TSTATS SHALL BE INSTALLED IN EXISTING CFA T500 PANEL. CONTROL WIRING TERMINATIONS BETWEEN NEW TSTATS, NEW SENSORS, AND NEW RTUS BY MECHANICAL CONTRACTOR. REFER TO WIRING DIAGRAM ON SHEET M4.I.
- GC TO CONFIRM EXACT LOCATION OF AC#3 MAIN DUCT RUNS RELATIVE TO PROPOSED NEW WALL PRIOR TO START OF CONSTRUCTION. CONTACT JLL PM OR AOR IF DETERMINED THERE IS A CONFLICT.

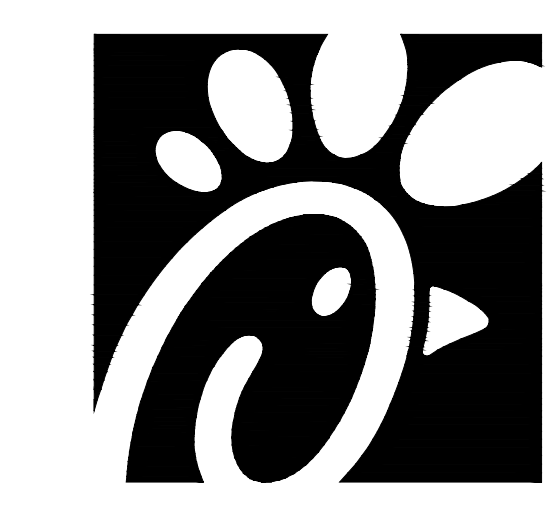
MECHANICAL FLOOR PLAN

SCALE: 1/4"=1'-0"

GC TO HIRE VENTILATION CLEANING CONTRACTOR CERTIFIED BY NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) TO CLEAN ALL EXISTING DUCTWORK THAT IS TO REMAIN.

TOTAL AIR BALANCE SCHEDULE

EQUIPMENT MARK	ACH1 (NEW)	AC#2 (NEW)	AC#3 (NEW)	AC#4 (NEW)	AC#5 (NEW)	EF#1 (NEW)	EF#2 (NEW)	EF#3 (EXIST)	TOTAL
SERVES	KITCHEN	SIDE DINING	DRIVE THRU	MAIN DINING	PLAY AREA	HOOD#1L HOOD#1R	HOOD#2 HOOD#3	REST-ROOMS	
SUPPLY AIR CFM	8,500	2,830	4,000	2,765	1,800				19,895
RETURN AIR CFM	6,500	2,080	3,000	2,165	1,500				15,245
OUTSIDE AIR CFM	2,000	750	1,000	600	300				+4,650
EX-HAUST CFM						1,913	1,402	400	-3,715
PRESSURIZATION									+935
REMARKS	ADJUST AND VERIFY BALANCE OF ALL HVAC EQUIPMENT IS AS SHOWN IN ORDER TO MAINTAIN BUILDING AIR BALANCE.								



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3	02/06/25	CD Update

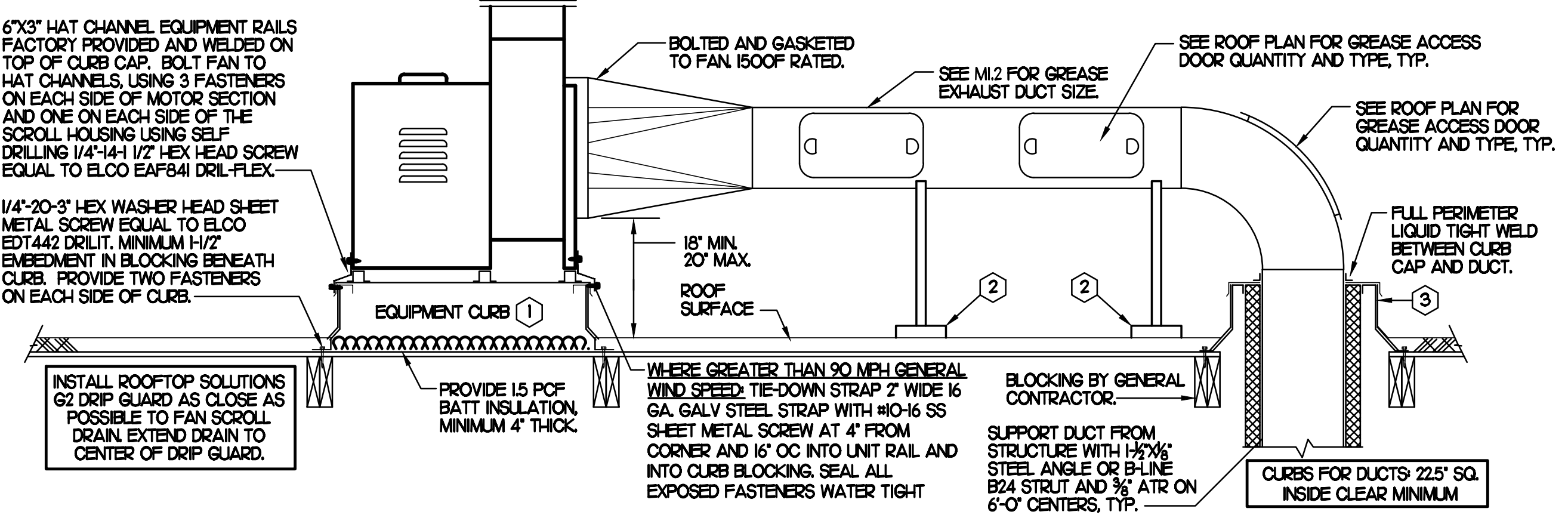
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SHEET
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M1.1

FABRICATE 18 GA STAINLESS NOZZLE. NOZZLE INLET FULL SIZE OF FAN DISCHARGE. 1'-0" MINIMUM NOZZLE HEIGHT. TERMINATE 0'-2" ABOVE HIGHEST PARAPET WITHIN 10'-0".

- KEYED NOTES**
- EQUIPMENT CURB WITH REINFORCED BASE AND STEEL CURB CAP PROVIDED BY TOM BARRON COMPANY. WIDTH OF CURB SHALL BE 4" WIDER THAN FAN FOOTPRINT IN BOTH DIRECTIONS. HEIGHT OF CURB SHALL BE SUCH THAT NO PART OF ANY DUCT TO BE WITHIN 18" OF ROOF SURFACE. PROVIDE FACTORY EQUIPMENT RAILS WELDED TO CAP.
 - ALL DUCT ON ROOF TO BE SUPPORTED WITH MIRO 6-DS DUCT SUPPORT SYSTEM AT 6'-0" INTERVALS MAXIMUM. PROVIDE MIRO SUPPORT PADS AT EACH SUPPORT. ATTACH SUPPORT TO DUCT. PROVIDE A DUCT SUPPORT STAND AT EACH ROOF PENETRATION.
 - 12" HIGH INSULATED CURB PROVIDED BY TOM BARRON COMPANY. MECHANICAL CONTRACTOR TO PROVIDE 16 GA MINIMUM CURB CAP.



SHEET NOTES

- ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM PRIMER PRIOR TO PAINTING.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF-ADHESIVE BACKING.
- MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

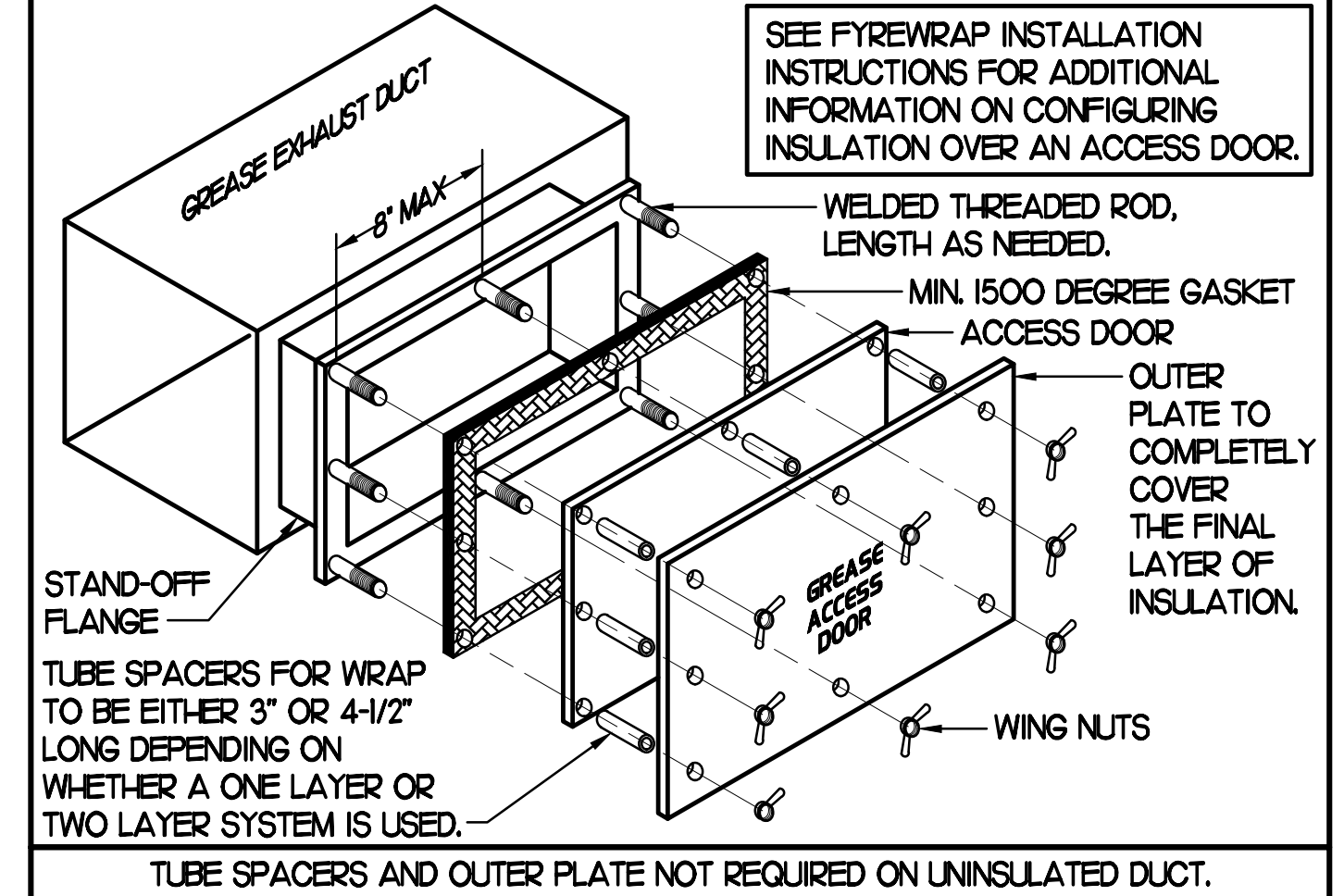
KEY NOTES

- FABRICATE DISCHARGE AIR NOZZLE. LOCATE EXHAUST TERMINATION A MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES. SEE DETAIL 2 THIS SHEET.
- GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET. THE MC MAY ADD A VERTICAL RISER AT THE RADIUS ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	7.5H X 14W	9.5H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	9.5H X 14W	11.5H X 16W	1
D	8.5H X 14W	10.5H X 16W	1

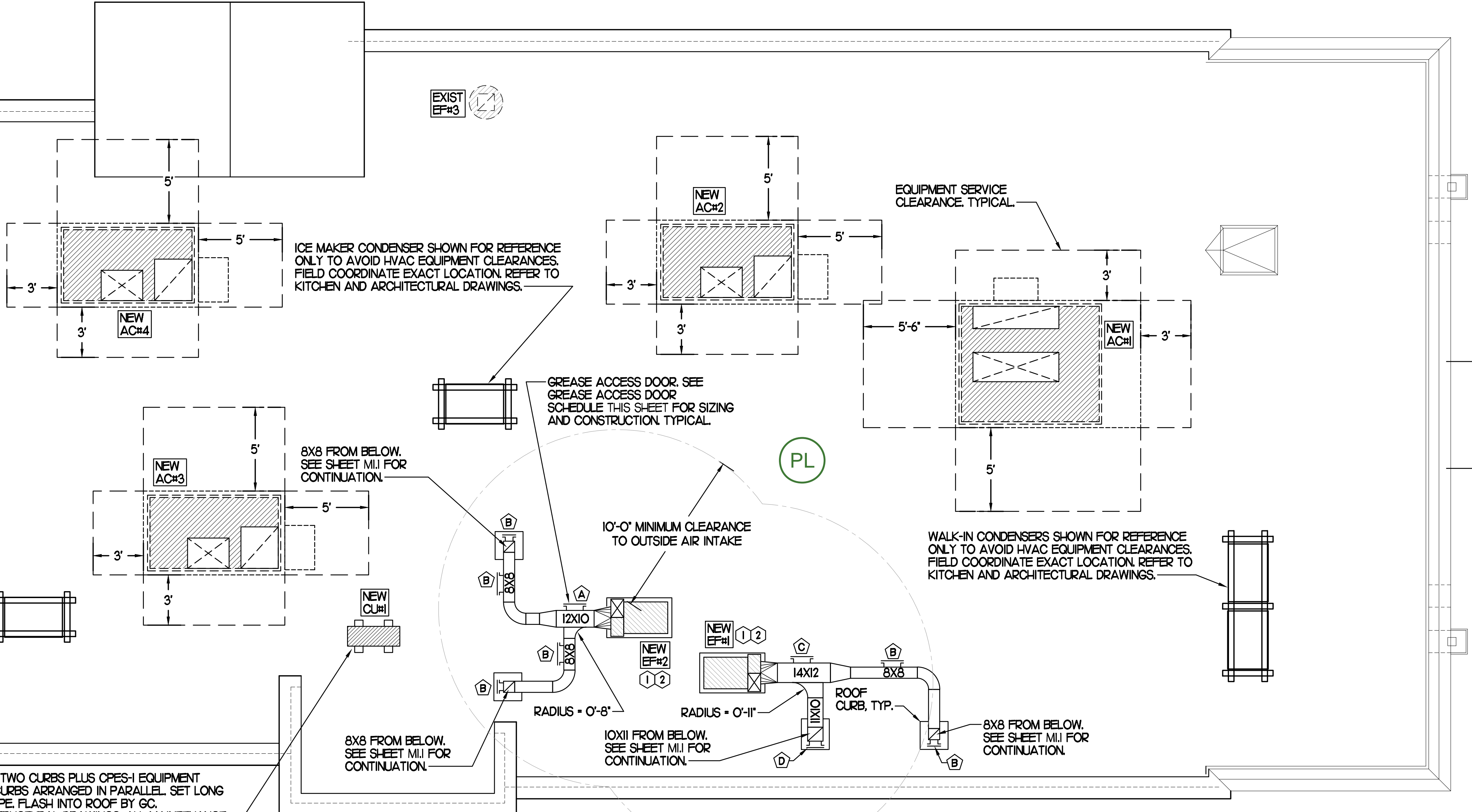
1. ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED. REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH TUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC (800) 382-2491.



2 KITCHEN HOOD EXHAUST FAN - UTILITY SET FAN

NO SCALE

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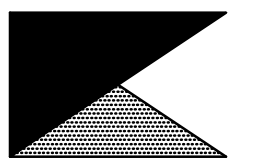
1 MECHANICAL ROOF PLAN

SCALE: 1/4"=1'-0"



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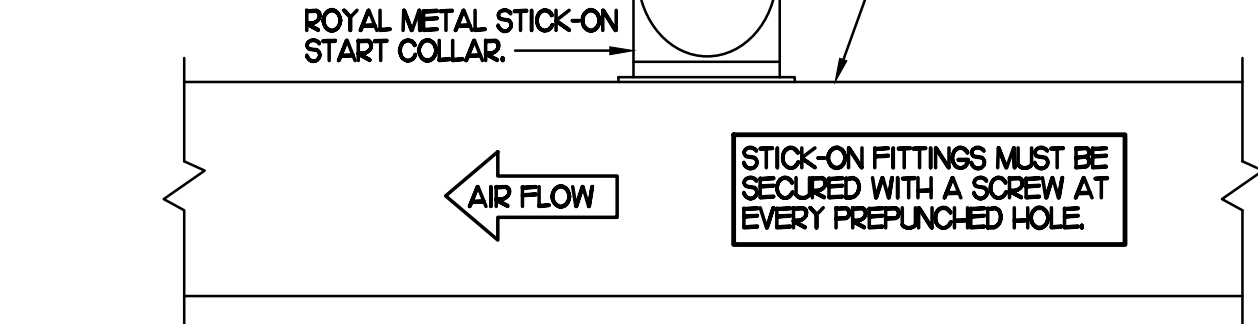
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SHEET
MECHANICAL
ROOF PLAN
SHEET NUMBER

M1.2

CONSTRUCTION

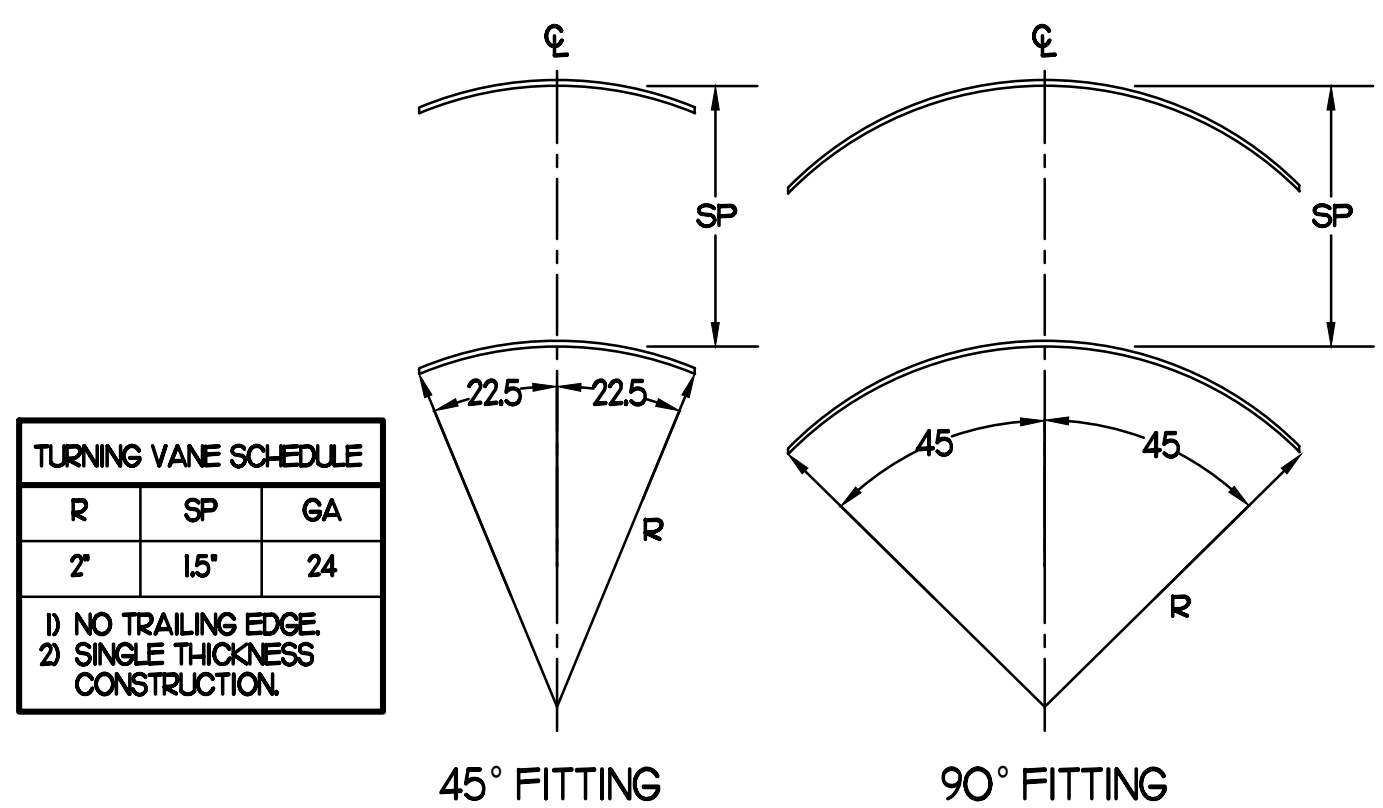
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE ROYAL METAL START COLLARS. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL START COLLARS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351010 FOR PRICING AND AVAILABILITY. ROYAL METAL START COLLARS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

DAMPER CONTROL HANDLE MUST BE LEFT EXPOSED, LOCATED ON THE LEFT OR RIGHT SIDE WHEN INSTALLED ON HORIZONTAL DUCTS, AND LOCATED ON THE BOTTOM WHEN INSTALLED ON VERTICAL DUCTS. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION AS SPECIFIED ABOVE WILL NOT BE ACCEPTED. ATTACH A YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.



2 START COLLAR

NO SCALE



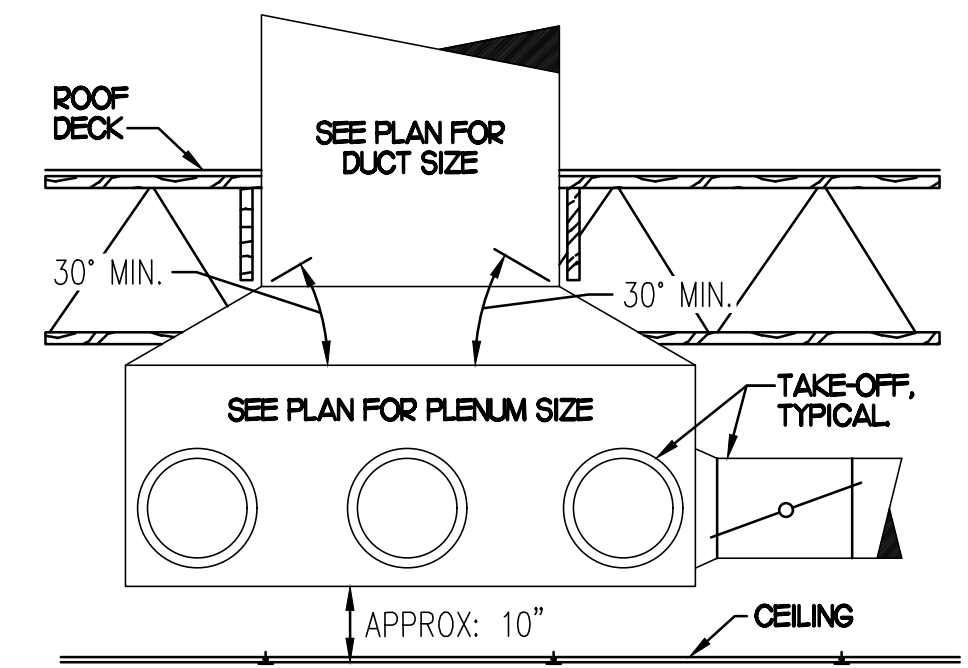
TURNING VANE SCHEDULE

R	SP	GA
2'	15'	24

1) NO TRAILING EDGE
2) SINGLE THICKNESS CONSTRUCTION

3 TURNING VANES

NO SCALE



5 RETURN DROP GEOMETRY

NO SCALE

EXHAUST FAN SCHEDULE

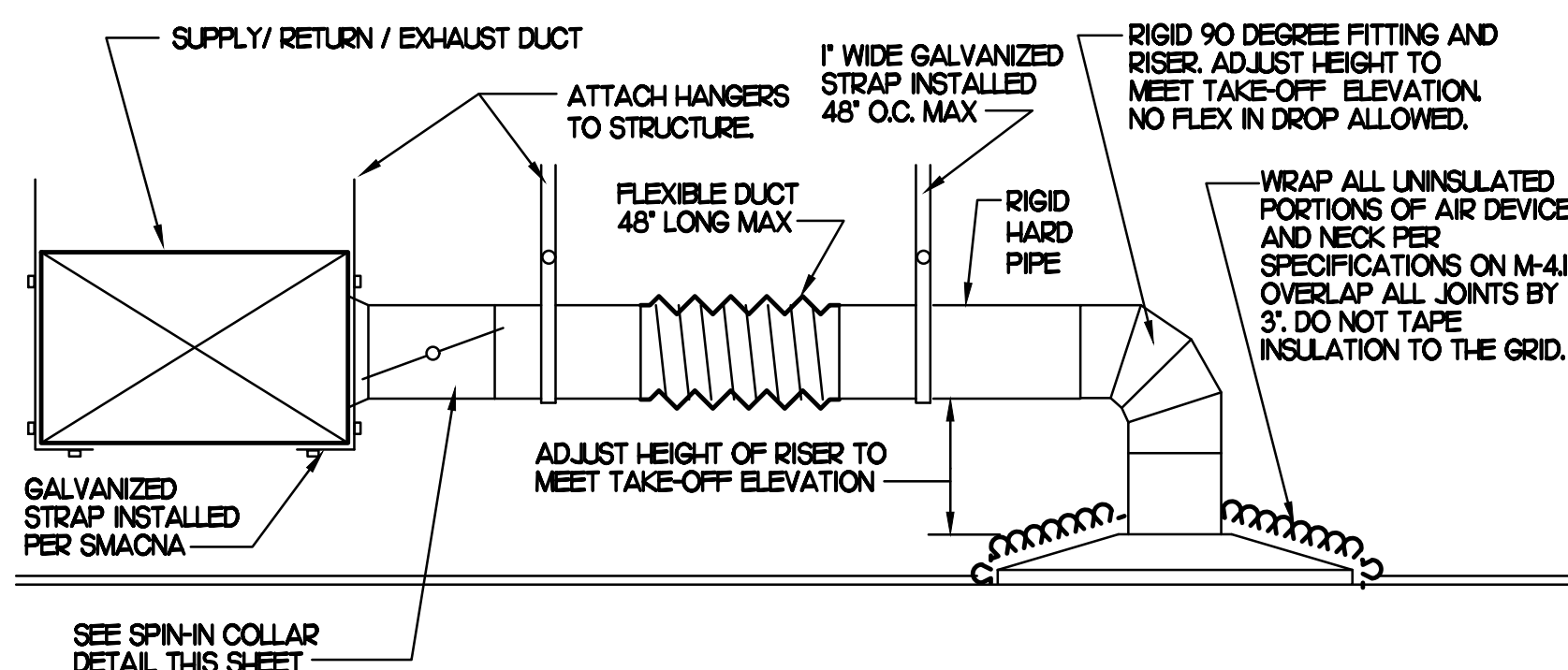
MARK	CFM	ESP	RPM	TIP SPEED (FPM)	HP (WATTS)	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF#1 (NEW)	1,913	0.75	1,331	5,226	3/4	HOOD#1 & HOOD#R	150 CPS	LOREN COOK	H2
EF#2 (NEW)	1,402	0.95	1,199	4,708	3/4	HOOD#2 & HOOD#3	150 CPS	LOREN COOK	H2
EF#3 (EXIST)	400	-	-	-	-	RESTROOMS	-	EXISTING	-

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE UL 762 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR FAN/CLRB PACKAGE. MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CLRB PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351010 FOR PRICING AND AVAILABILITY. FANS AND CLRB NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

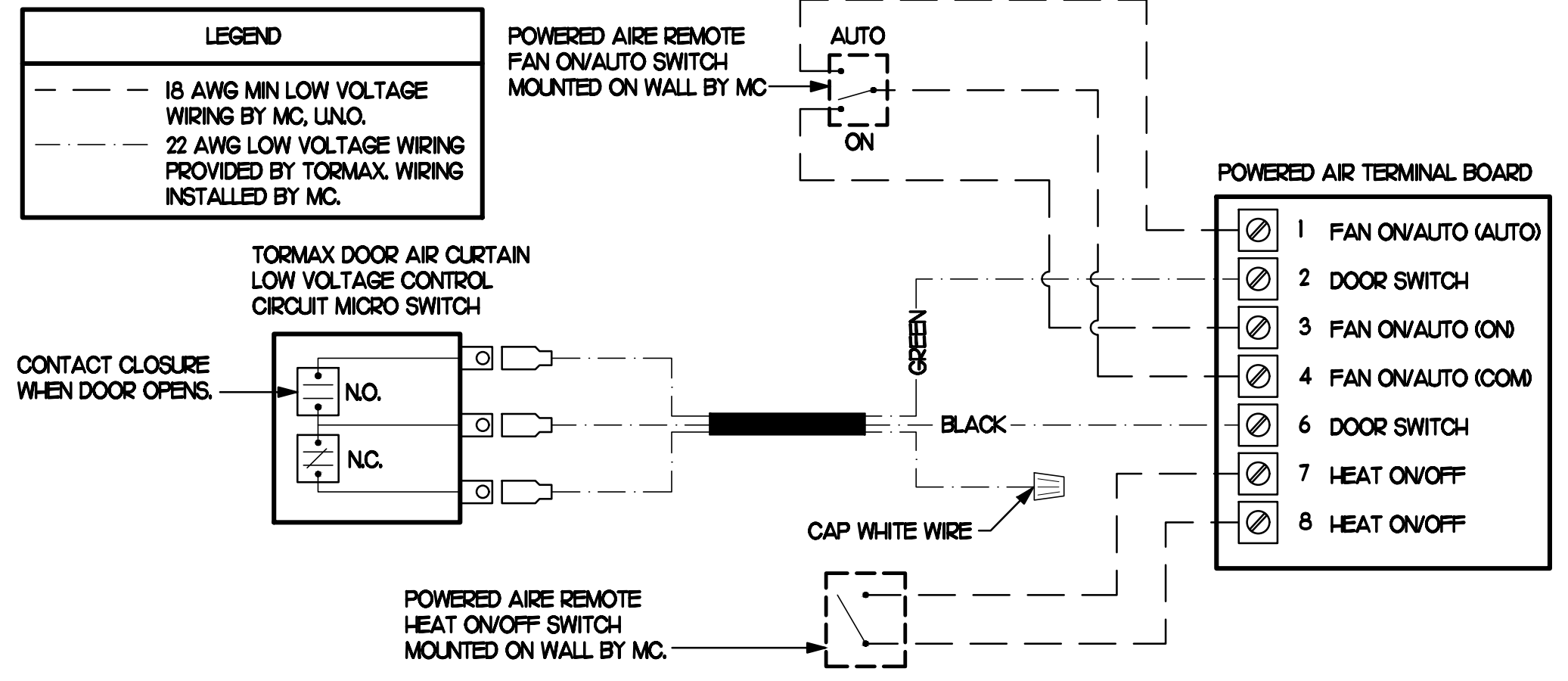
REMARKS

- PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MC TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034
- PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT. COORDINATE WITH E.C.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- UPBLAST, ARRANGEMENT 10, COW ROTATION SEE PLANS TO CONFIRM CONFIGURATION.
- PROVIDE FACTORY STEEL FAN WHEEL.
- PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
- PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- PROVIDE FACTORY DRAIN CONNECTION.
- PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL.
- PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE.
- UTILITY SET FAN CLRB AND ASSOCIATED EXHAUST DUCT CLRB PROVIDED BY TOM BARRROW COMPANY.
- PROVIDE FACTORY BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT.



1 SAG/RAG/GRILLE TAKE-OFF

NO SCALE



4 AIR CURTAIN WIRING DIAGRAM

NO SCALE

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	SEE PLAN	24X24	LAY-IN	1,6
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X4	20X20	BEVELLED	1,2,4,5
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING KITCHEN	SEE PLAN	24X24	LAY-IN	1,6
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X16	BEVELLED	1,2,3,4,5
K	PRICE MODEL APDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X4	17X7	SURFACE	1,3,4,5

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- STANDARD OFF WHITE FINISH.
- SEE DRAWING MJ FOR THROW.
- PROVIDE FACTORY MOUNTED MODEL VCS3 NECK DAMPER AND FIELD INSTALLED RECTANGULAR TO ROUND TRANSITION.
- PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL JM3.1.
- FACTORY INSULATED R-6 BACKPAN.

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	COOLING CAPACITY (MEH)		HEATING CAPACITY (MEH)		FAN SECTION (CFM)	MODEL	MANUFACTURER	REMARKS				
	TOTAL	SEVS	INPUT	OUTPUT								
ACH (NEW)	2821	2022	480.0	389.0	2	8,500	2000	7.5	0.8	LGT300H5M	LENNOX	H1J4-7
AC#2 (NEW)	98.6	68.3	240.0	194.0	2	2,830	750	3.75	0.8	LGT1024EE	LENNOX	H2J4-7
AC#3 (NEW)	125.7	91.8	240.0	194.0	2	4,000	1,000	3.75	0.8	LGT1204EE	LENNOX	H2J4-7
AC#4 (NEW)	92.8	64.6	240.0	194.0	2	2,765	600	3.75	0.8	LGT0924EE	LENNOX	H2J4-7
AC#5 (NEW)	61.6	44.4	150.0	121.0	2	1,800	300	1.0	0.8	LGT0604EE	LENNOX	H1J3-7

NOTES

- COOLING CAPACITIES ARE GROSS, BASED ON INDOOR EDB 80F, INDOOR EWB 67F, OUTDOOR EDB 95F. FOR PROPER BUILDING AIR BALANCE, VERIFY AMOUNT OF OUTSIDE AIR PROVIDED BY ALL EXISTING UNITS. ADJUST AS PER SCHEDULE IF NECESSARY.
- VERIFY MIN. 10' DISTANCE OF O.A. INTAKE OPENINGS OF A/C UNITS FROM ANY EXISTING SOURCE OF AIR POLLUTION (EXHAUST FAN COMBUSTION FLUE, VENT ETC). IF SUCH CONDITIONS EXIST, CONTRACTOR IS REQUIRED TO DUCT OUTSIDE AIR INTAKE ON ROOF AWAY FROM ANY SUCH SOURCE.

REMARKS

- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. ECONOMIZER TO BE LOW LEAKAGE/HIGH PERFORMANCE.
- SEE DETAIL 2/M4J FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC.
- PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
- PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
- PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
- PROVIDE 2" MERV 8 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 INSTALLED COIL HAIL GUARD.
- PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.
- PROVIDE WITH FACTORY CONDENSATE DRAIN PAN OVERFLOW SWITCH.
- PROVIDE WITH FACTORY RETURN AIR ADAPTER PLATE.
- PROVIDE WITH ADAPTER CLRB. UNIT BEING REPLACED IS LENNOX MODEL LG606H. ADAPTER CLRB IS PROVIDED BY LENNOX AS PART OF THE TOTAL EQUIPMENT PACKAGE.
- PROVIDE WITH MSAV BLOWER.
- PROVIDE FACTORY CONFIGURED PHASE LOSS PROTECTION.
- PROVIDE HIGH FALLT SCOR (OOK).
- PROVIDE FACTORY FRESH AIR TEMPERING KIT.

LENNOX FRESH AIR TEMPERING SETUP

- INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
- LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
- CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #156 TO A VALUE OF 66 (OLDER MI-8 IMC BOARD ECTO PARAMETER 620 SET TO A VALUE OF 145). THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT. NOTICE - THIS PARAMETER #156 (620) MUST BE CHANGED TO ACTIVATE THE FRESH AIR TEMPERING FEATURE.
- CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #157 TO A VALUE OF 14 (OLDER MI-8 IMC BOARD ECTO PARAMETER 621 SET TO A VALUE OF 21). THIS WILL MAKE THE DEADBAND VALUE EQUAL 14F.
- CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #158 TO A VALUE OF 300 (OLDER MI-8 IMC BOARD ECTO PARAMETER 622 SET TO A VALUE OF 37). THIS WILL MAKE THE CYCLE TIME VALUE EQUAL 5 MINUTES.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1 (NEW)	1,543	2,338	10 KW	3/4	DRIVE THRU	CHA-148E	POWERED-AIRE	2-5
AD#2 (NEW)	3,867	4,220	NA	3/4	REAR DOOR	RBT-148	POWERED-AIRE	1
AD#3 (NEW)	2,899	4,220	NA	3/4	DRIVE THRU DOOR	RBT-136	POWERED-AIRE	1

NOTES

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE AIR CURTAIN WIRING DIAGRAM DETAIL THIS SHEET.
- PROVIDE WITH DIVERTER BOX FROM TOM BARRROW COMPANY. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER MANUFACTURER'S MOUNTING INSTRUCTIONS.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK	COOLING CAPACITY (MEH)		HEATING CAPACITY (MEH)		EFFICIENCIES	FAN SECTION (CFM)	ELECTRICAL DATA	R-410A MODEL		MFR			
	MIN	MAX	MIN	MAX				AHU	CJ				
AHJ/CJH (NEW)	18.0	33.5	18.0	40.0	16.2	10.0	635-730-830	28	40	208/1/60	PKA-A36KAT	PLZ-HA36NHA5	MTSLSB1H

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TRANE/MTSLSB1H. CONTACT MR. SCOTT ROWLEY AT 630-200-7155, FOR PRICING AND AVAILABILITY. EMAIL AT CFA@TRANE.COM.

REMARKS

- ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
- MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
- PROVIDE ENGRAVED PLASTIC LABEL AT AHJ AND CJ WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
- PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
- PROVIDE WITH WALL MOUNTED THERMOSTAT (TAR-CTO1MAL-SBL) USE TWO-WIRE, STANDARD, NON-POLAR CONTROL WIRE TO CONNECTOR TB15 ON INDOOR UNIT CONTROLLER. PROGRAM THERMOSTAT CONTROLS TO MATCH DRIVE-THRU RTU SETPOINTS.
- PROVIDE PAC-GE558A-E CONNECTOR AT INDOOR UNIT (CONNECTOR CH32), WIRE ORANGE AND RED WIRES TO SPARE POLE ON RELAY R4 IN SUNCOAST T-500 PANEL (TERMINALS 11 AND 7 RESPECTIVELY) AND CAP THE BROWN WIRE.
- PROVIDE WITH CONDENSATE PUMP (BLUE DIAMOND MAXI BLUE MODEL# X87-72).
- PROVIDE WITH FACTORY HAIL GUARDS.



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FSR#02348
BUILDING TYPE / SIZE: S06C-R
RELEASE: v05.22

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	02/12/24	Mechanical Revision
3	02/06/25	CD Update

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SHEET
MECH DETAILS
& SCHEDULES
SHEET NUMBER

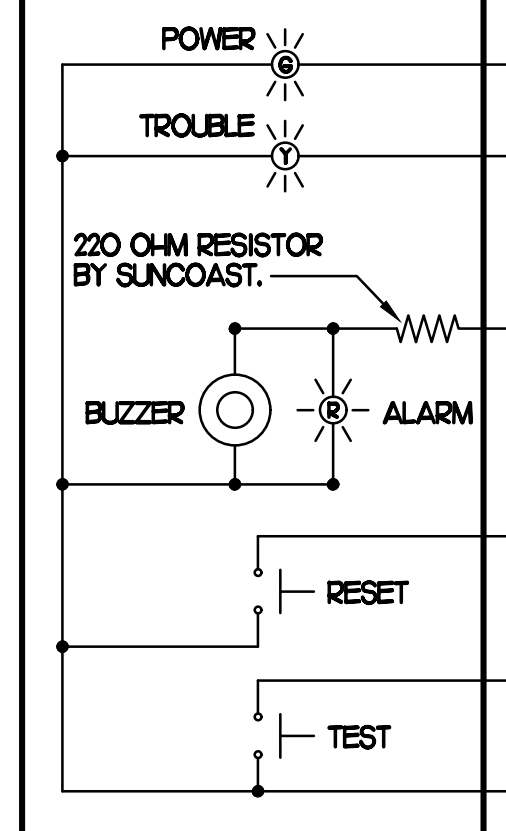
CONSTRUCTION

SUPPLY SIDE DUCT DETECTORS WHERE SUPPLY SIDE DUCT DETECTORS ARE SHOWN ON DWG M11 AND/OR CALLED FOR ON THE RTU SCHEDULE, THE CONTRACTOR IS TO RELOCATE THE FACTORY INSTALLED SUPPLY SIDE DUCT DETECTOR FROM THE BLOWER SECTION TO THE DUCTWORK. SEE NOTES ON DWG M11.

LEGEND
 - - - 18 AWG MIN WIRING BY MECH CONTRACTOR
 - - - FACTORY ANNUNCIATOR DETECTOR WIRING
 - - - FACTORY LENNOX WIRING

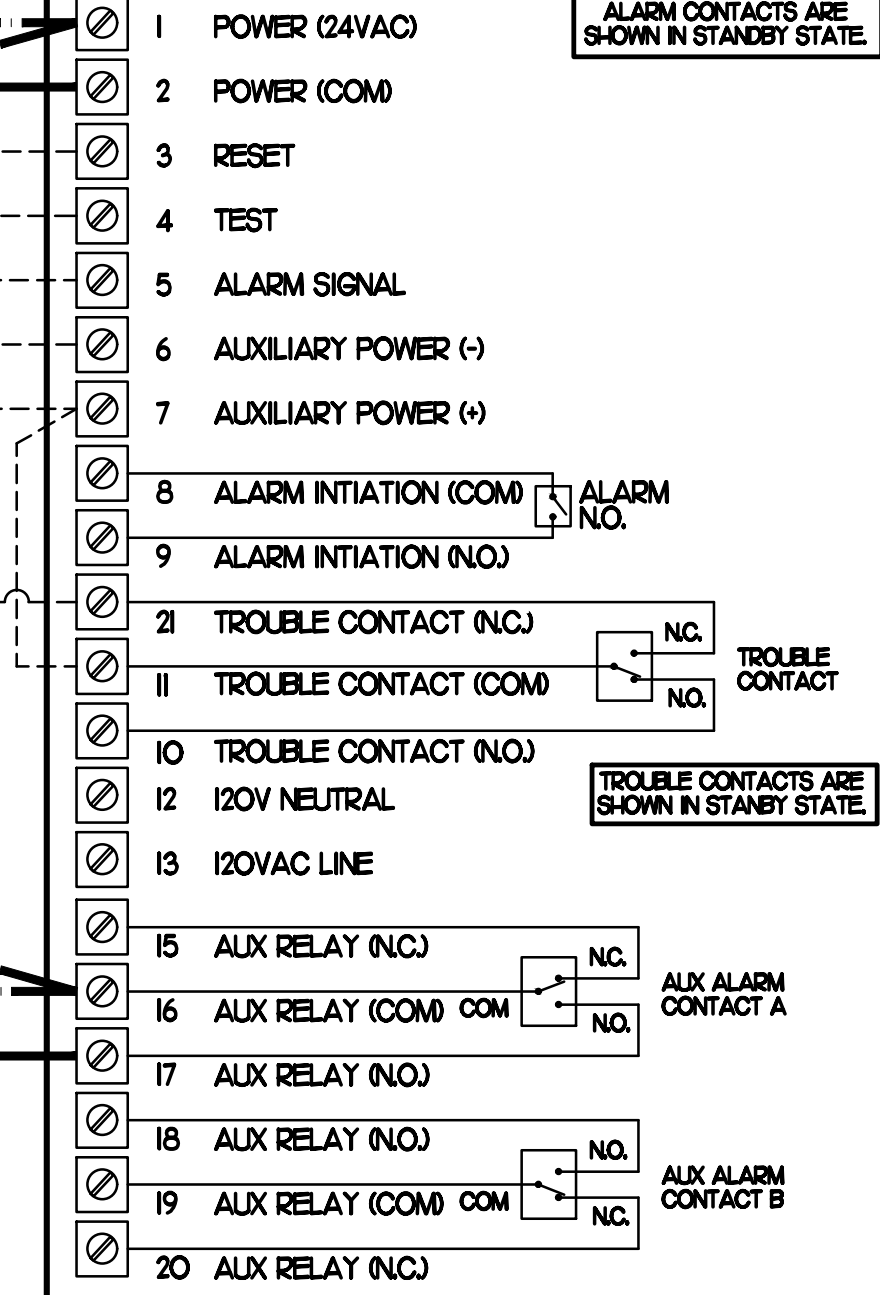
LABELING
 PROVIDE ENGRAVED LABEL WITH HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

SUNCOAST CONTROLS ANNUNCIATOR



FIELD INSTALLED WIRING
 WITHIN THE ROOFTOP UNIT, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIREWAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO THE WIRING LIFE WILL NOT BE ACCEPTED.

LENNOX FACTORY WIRING
 LENNOX FACTORY INSTALLED DUCT DETECTOR SYSTEM SENSOR M11 LD4120



ALARM CONTACTS ARE SHOWN IN STANDBY STATE

TROUBLE CONTACTS ARE SHOWN IN STANDBY STATE

ALX ALARM CONTACT A

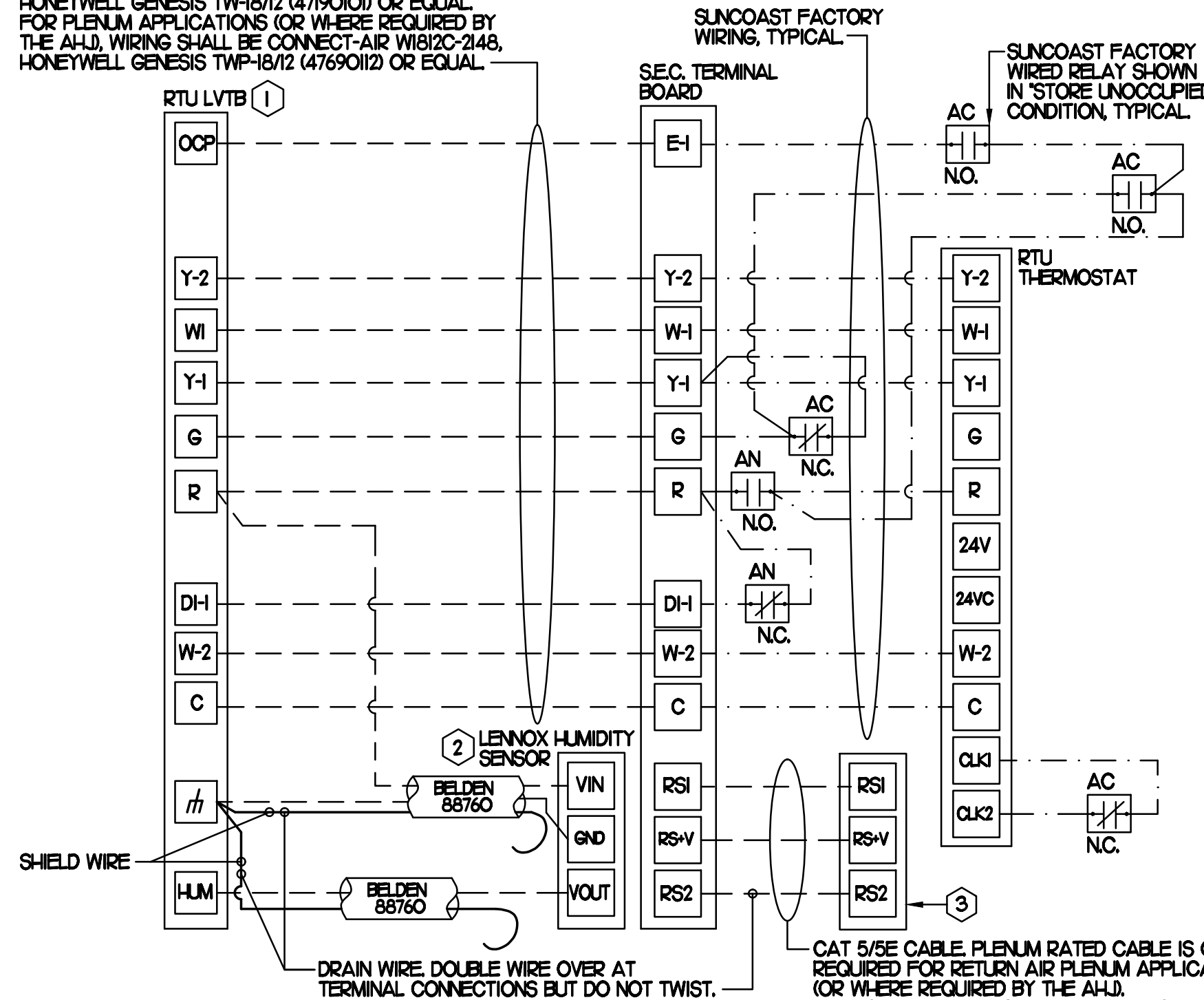
ALX ALARM CONTACT B

1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

NO SCALE

LEGEND
 S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
 KEY NOTE REFERENCE
 MC MECHANICAL CONTRACTOR
 (AC) SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN 'STORE OCCUPIED' POSITION.
 (AN) SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DE-ENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
 - - - LOW VOLTAGE WIRING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.
 - - - LOW VOLTAGE WIRING BY S.E.C.
 - - - LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

WIRING FROM RTU TO S.E.C. PANEL SHALL BE SOLID 18 AWG, 12 CONDUCTOR THERMOSTAT WIRE SUCH AS HONEYWELL GENESIS TWP-18/12 (479000) OR EQUAL FOR PLENUM APPLICATIONS (OR WERE REQUIRED BY THE A.H.J.). WIRING SHALL BE CONNECT-AIR WIR2C-248, HONEYWELL GENESIS TWP-18/12 (4769012) OR EQUAL.



SHIELD WIRE
 DRAIN WIRE DOUBLE WIRE OVER AT TERMINAL CONNECTIONS BUT DO NOT TWIST.
 CAT 5/SE CABLE, PLENUM RATED CABLE IS ONLY REQUIRED FOR RETURN AIR PLENUM APPLICATIONS (OR WHERE REQUIRED BY THE A.H.J.)
 • RS2 - BROWN WITH WHITE STRIPE
 • RS1 - GREEN
 • RS-V - GREEN WITH WHITE STRIPE

2 ROOFTOP UNIT CONTROL WIRING - LENNOX

NONE

LEGEND
 S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL
 H.E.S. SUNCOAST ENVIRONMENTAL CONTROLS HOOD EXHAUST SAFETY CONTROLLER
 M.C. MECHANICAL CONTRACTOR
 - - - 18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING BY MC, U.N.O.
 - - - 120 VAC WIRING BY MECHANICAL CONTRACTOR

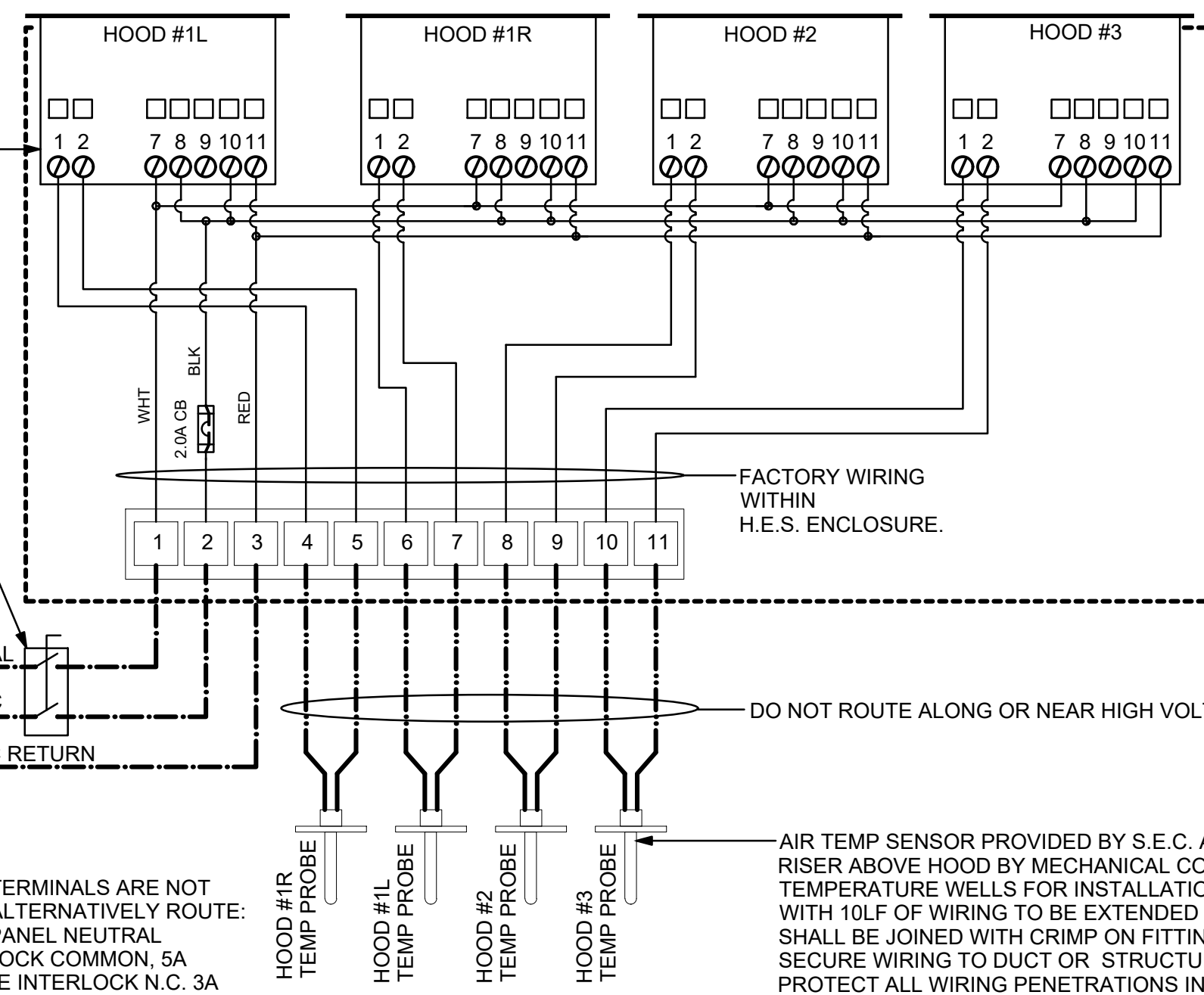
GENERAL NOTES

- MECHANICAL CONTRACTOR TO PURCHASE THE H.E.S. CONTROL PANEL AND COMPONENTS FROM SUNCOAST ENVIRONMENTAL CONTROLS. TELEPHONE 877-544-6679. CONTROLS COMPONENTS TO BE FACTORY MOUNTED IN LABELED NEMA-1 ENCLOSURES.
- MECHANICAL CONTRACTOR TO PROVIDE A PROFESSIONALLY LAMINATED COPY OF THIS DETAIL ATTACHED TO THE ENCLOSURE. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

S.E.C. H.E.S. OPERATION

IN THE EVENT THAT ANY COOKING EQUIPMENT ITEM BENEATH ANY HOOD IS STARTED WITHOUT THE 'STORE SWITCH' BEING IN THE 'OCCUPIED' POSITION, THE H.E.S. CONTROLLER WILL SENSE THE HEAT RISE WITHIN THE HOOD CANOPY AND ENERGIZE THE EXHAUST FANS.

FOUR H.E.S. TEMPERATURE CONTROLLERS MOUNTED IN A COMBINED SINGLE ENCLOSURE BY SUNCOAST. MOUNT ENCLOSURE ABOVE HOOD#3 WITHIN EASY REACH FROM THE ACCESS PANEL.



AIR TEMP SENSOR PROVIDED BY S.E.C. AND INSTALLED IN BLACK IRON DUCT RISER ABOVE HOOD BY MECHANICAL CONTRACTOR. S.E.C. TO PROVIDE TEMPERATURE WELLS FOR INSTALLATION BY MC. SENSORS PROVIDED WITH 10LF OF WIRING TO BE EXTENDED BY MC AS REQUIRED. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. PROTECT ALL WIRING PENETRATIONS IN WITH RUBBER GROMMETS.

3 HOOD EXHAUST SAFETY SWITCH (H.E.S.) WIRING DIAGRAM

NONE

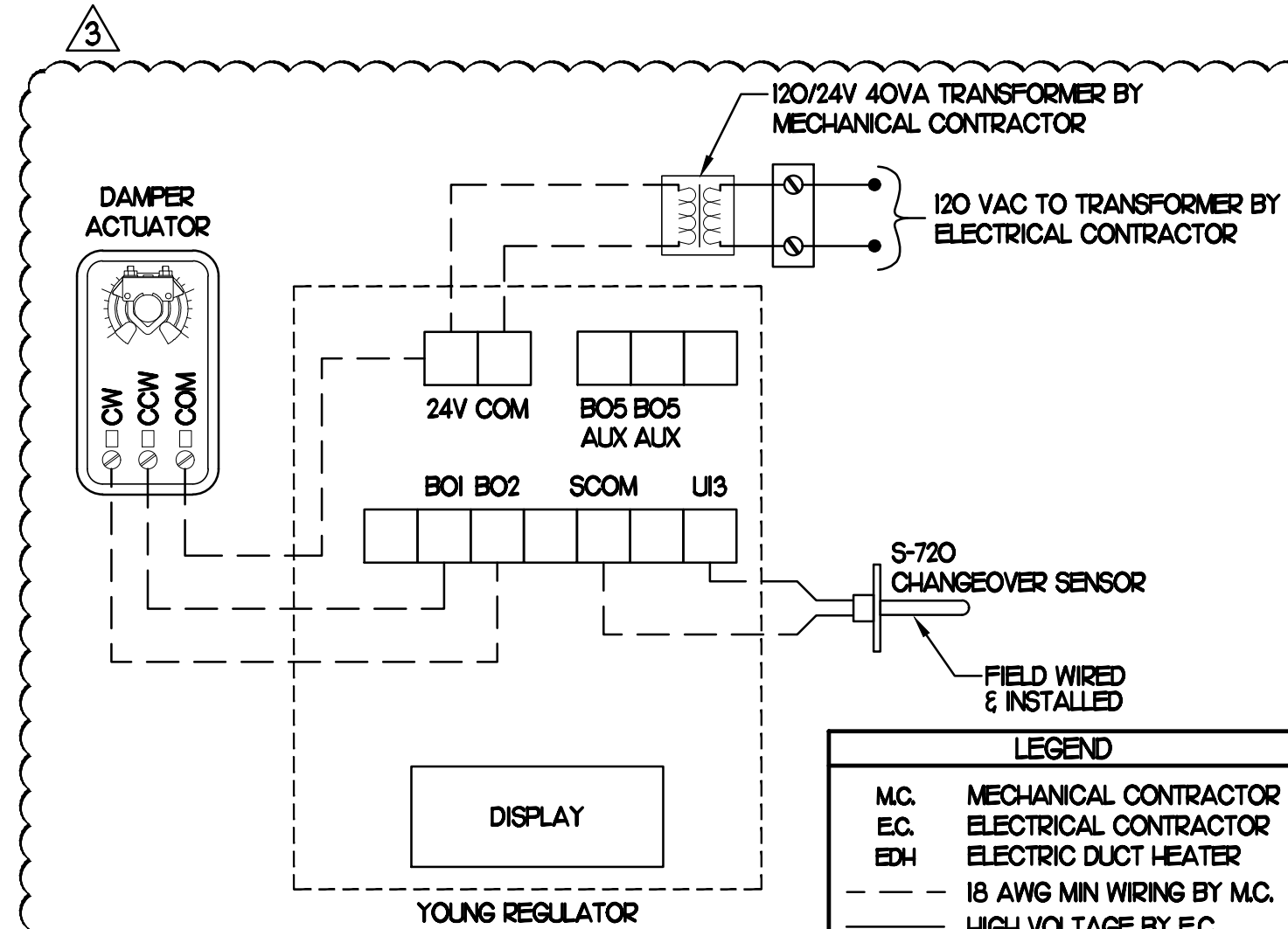
PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

NOTES

- FOR ALL RTUS EXCEPT AT KITCHEN RTUS, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #65 TO ZERO (#58 ON LCH UNITS). ON OLDER BOARDS THIS IS ECTO PARAMETER 3.01 FOR LCH UNITS OR ECTO 2.01 FOR LCH UNITS. THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START. AT KITCHEN RTUS) LCH TYPE LEAVE THE SETTING AT THE DEFAULT VALUE SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 60 MINUTES AFTER 'OCCUPIED' START. AT KITCHEN RTUS) LCH TYPE CHANGE THE VALUE TO 5400 SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 90 MINUTES AFTER 'OCCUPIED' START.
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
- SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
- AT HUMIDITROL RTUS SET PRODIGY-M3 BOARD CONTROL PARAMETER #105 FOR DEHUMIDIFICATION OPERATION TO A VALUE OF 7. OLDER M1-8 IMC BOARD ECTO PARAMETER 4.24 VALUE TO BE SET TO A VALUE OF 7.
- AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #106 FOR DEHUMIDIFICATION SET POINT TO A VALUE OF 60 (60% RH).
- AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #107 FOR DEHUMIDIFICATION MODE DEAD BAND TO A VALUE OF 2 (2% RH).
- SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
- FOR MSAV UNITS, SET THE MSAV LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.
- PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH HIGH WHITE LETTERING ON BLACK BACKGROUND, IE: #1C42 HUMIDITY SENSOR OR #1C42 TEMP SENSOR. PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY TO DEVICE.

KEYED NOTES

- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
- HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
- NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR.



NOTES

- SEE DWG M11 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
- 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24/7.
- PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.
- PROVIDE MYLAR LABEL AT ALL NEW THERMOSTATS WITH HIGH WHITE LETTERS ON BLACK BACKGROUND, IE: 'OFFICE THERMOSTAT'. PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

SEQUENCE OF OPERATION

- WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 72° THE DAMPER WILL MODULATE ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
- WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71° THE DAMPER WILL MODULATE ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

4 VAV DAMPER AND TSTAT

NONE



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FSR#02348

BUILDING TYPE / SIZE: S06C-R
 RELEASE: v05.22

NO.	DATE	DESCRIPTION
2	02/12/24	Mechanical Revision
3	02/06/25	CD Update

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SHEET HVAC CONTROLS

SHEET NUMBER

M4.1

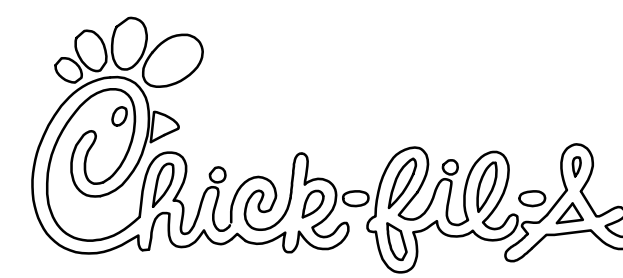
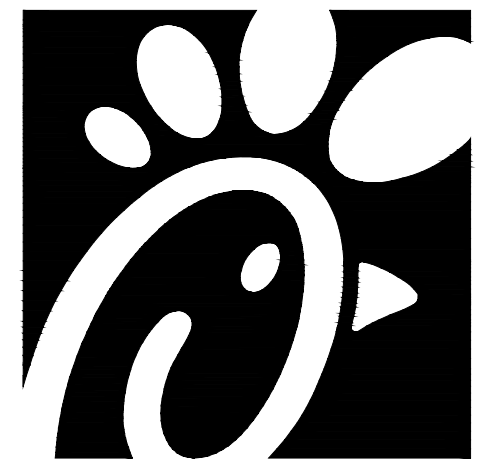
CONSTRUCTION

4

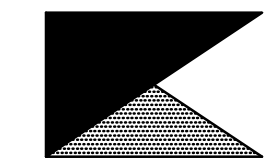
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2

1



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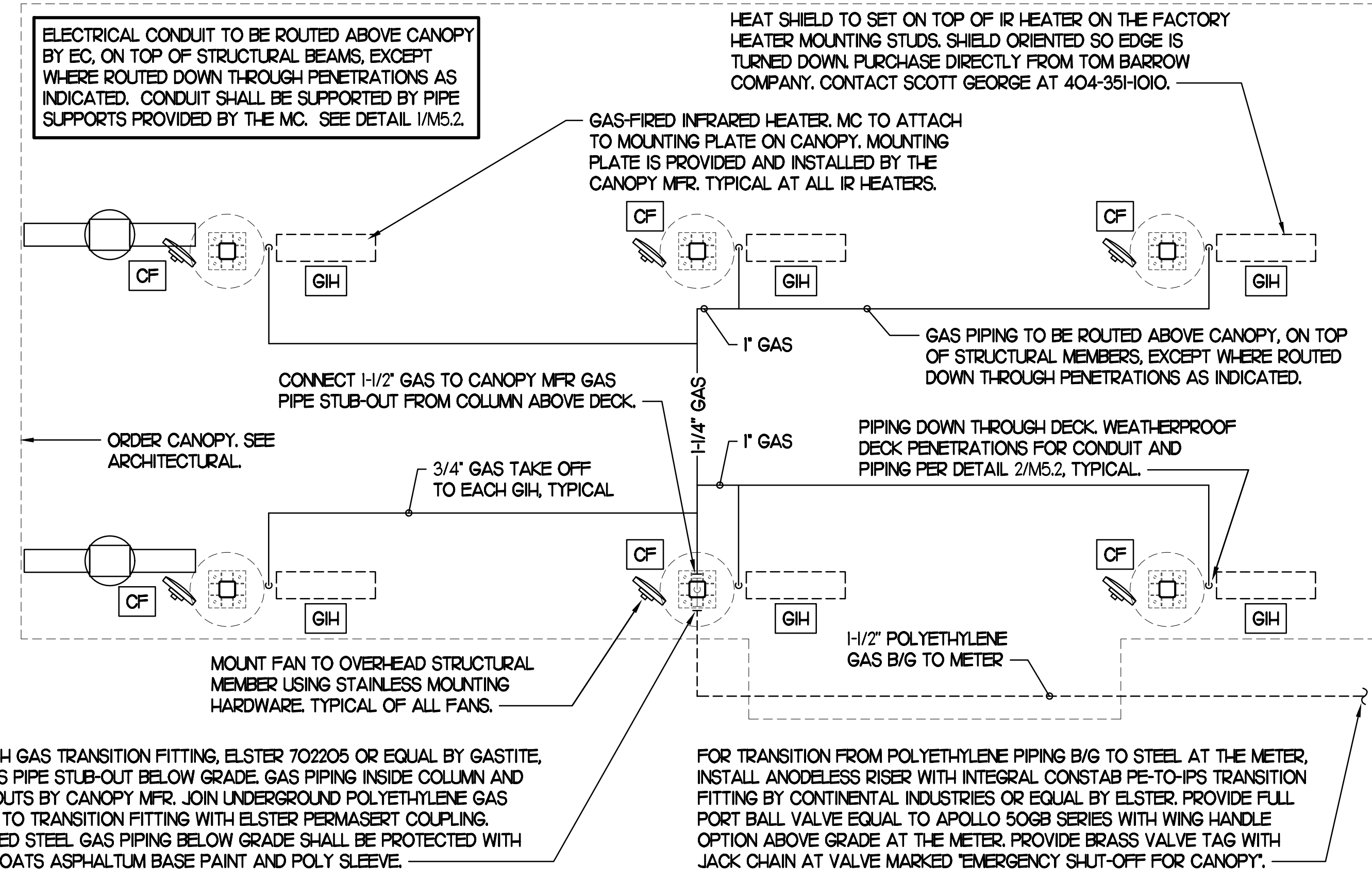
SHEET
CANOPY HVAC
PLANS
SHEET NUMBER

M5.1

LEGEND			
CF#	CIRCULATING FAN # (TYP)	B/G	BELOW GRADE
GIH#	GAS INFRARED HEATER # (TYP)	EC	ELECTRICAL CONTRACTOR
---	NEW GAS PIPING ABOVE GRADE	MC	MECHANICAL CONTRACTOR
---	NEW GAS PIPING BELOW GRADE	---	CONDUIT ABOVE CANOPY DECK

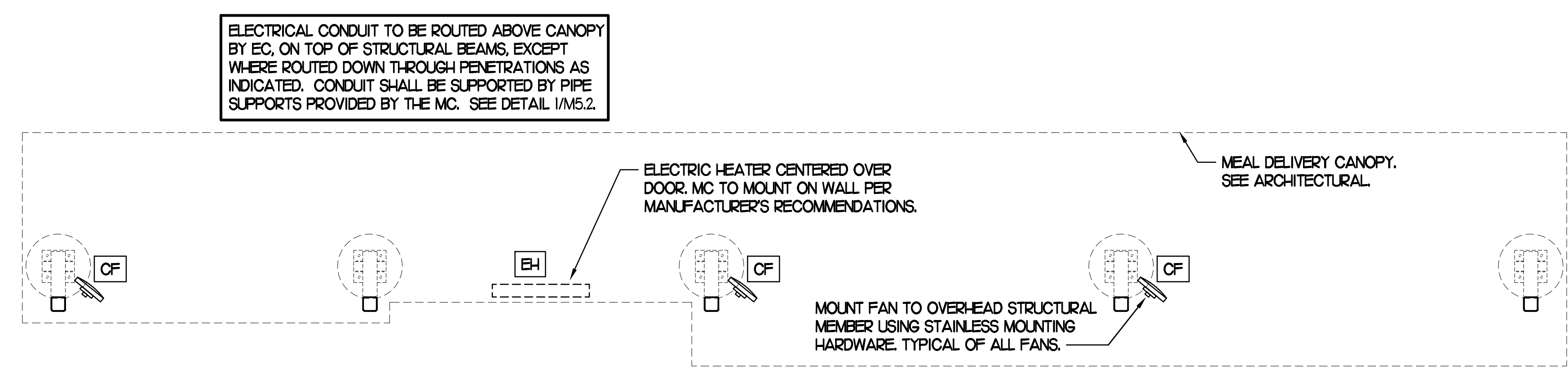
GENERAL NOTES

- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
- ACTUAL NUMBER OF GAS INFRARED HEATERS & COOLING FANS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE WIRE GAUGE WITH EC. SEE ELECTRICAL AND CONTROLS DRAWINGS, TYP.



1 HVAC PLAN - ORDER POINT CANOPY

NTS



2 HVAC PLAN - MEAL DELIVERY CANOPY

NTS

4

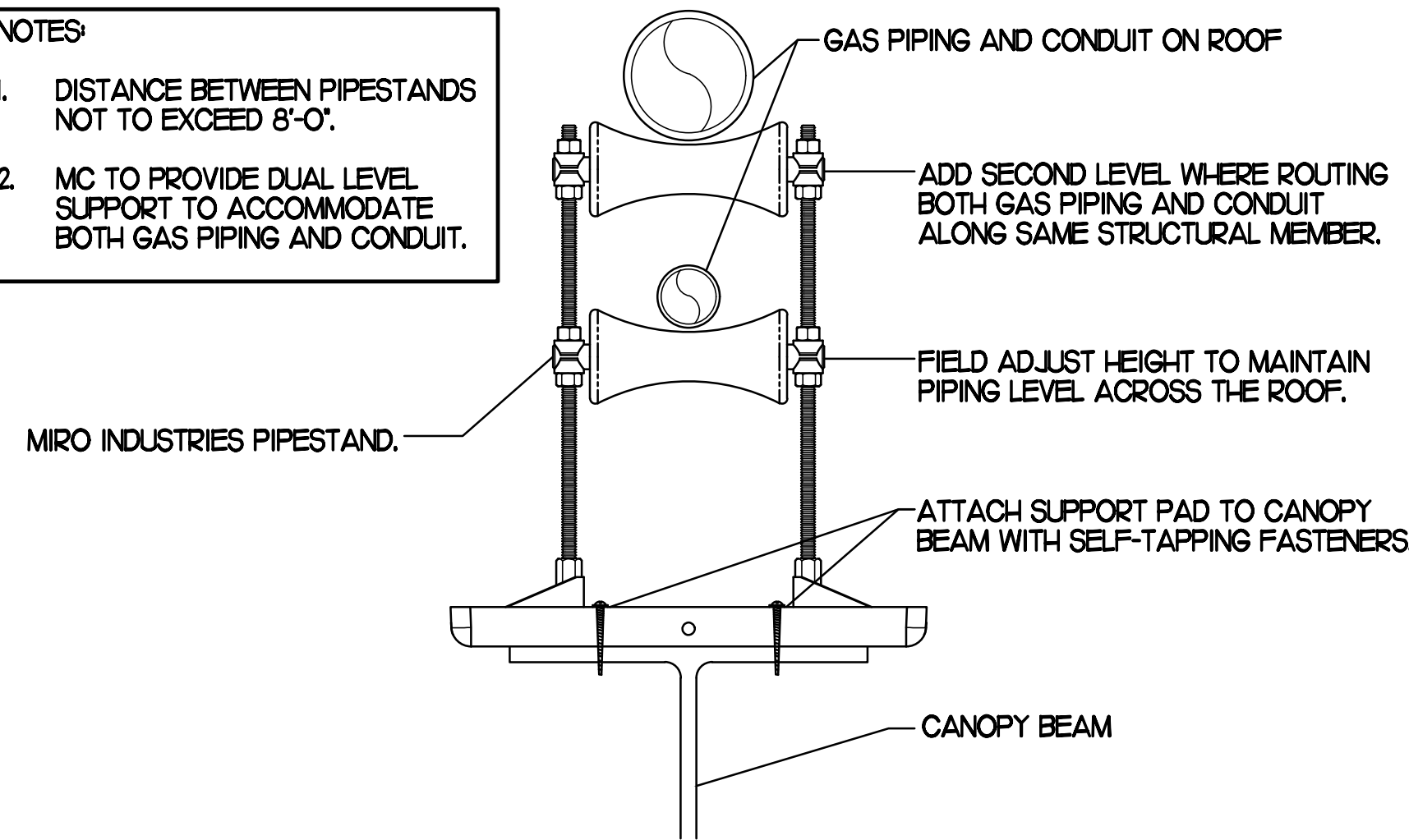
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2

1

CONSTRUCTION

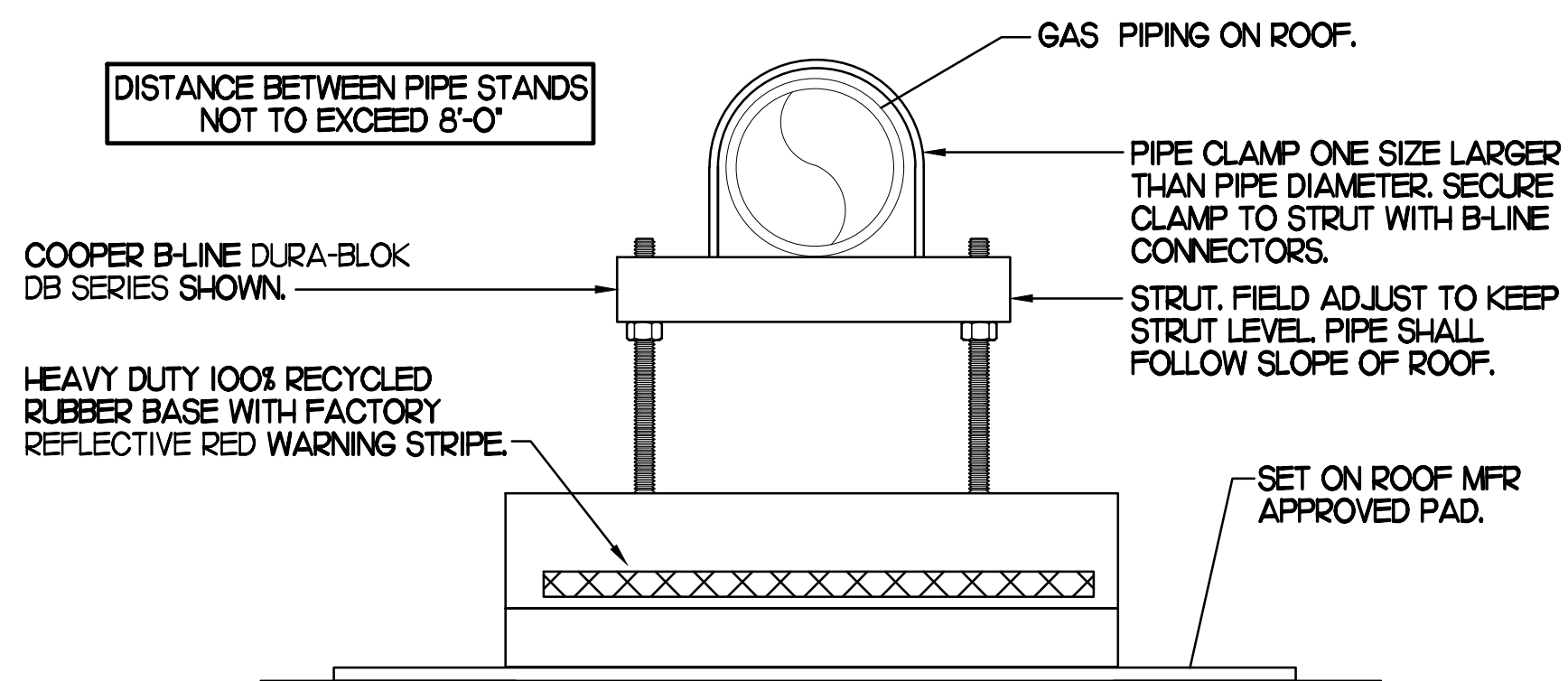
- NOTES**
- DISTANCE BETWEEN PIPESTANDS NOT TO EXCEED 8'-0".
 - MC TO PROVIDE DUAL LEVEL SUPPORT TO ACCOMMODATE BOTH GAS PIPING AND CONDUIT.



1 PIPING SUPPORT ON CANOPY

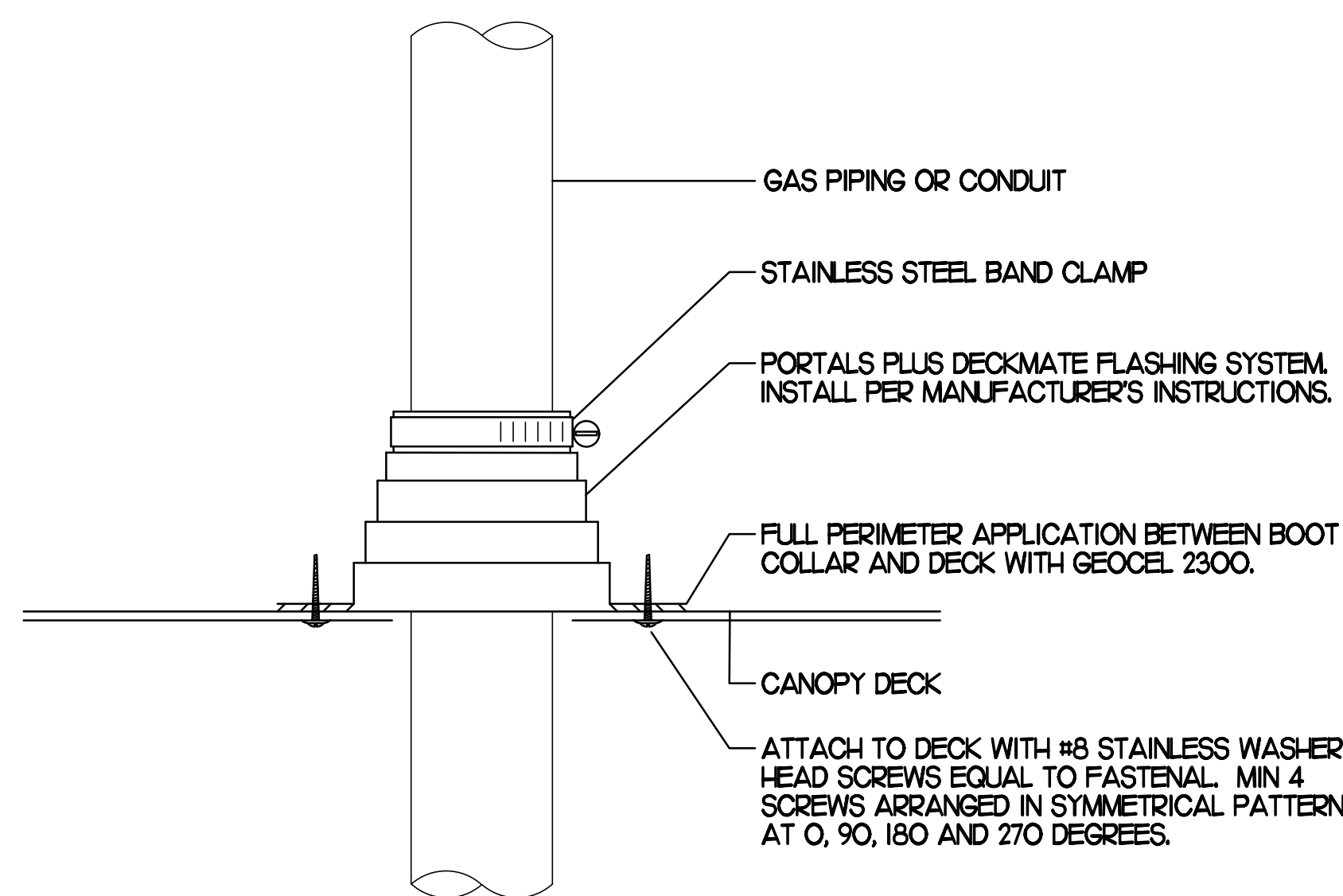
NO SCALE

- NOTES**
- NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 - PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING PIPING FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 - ENSURE GAS PIPING DOES NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



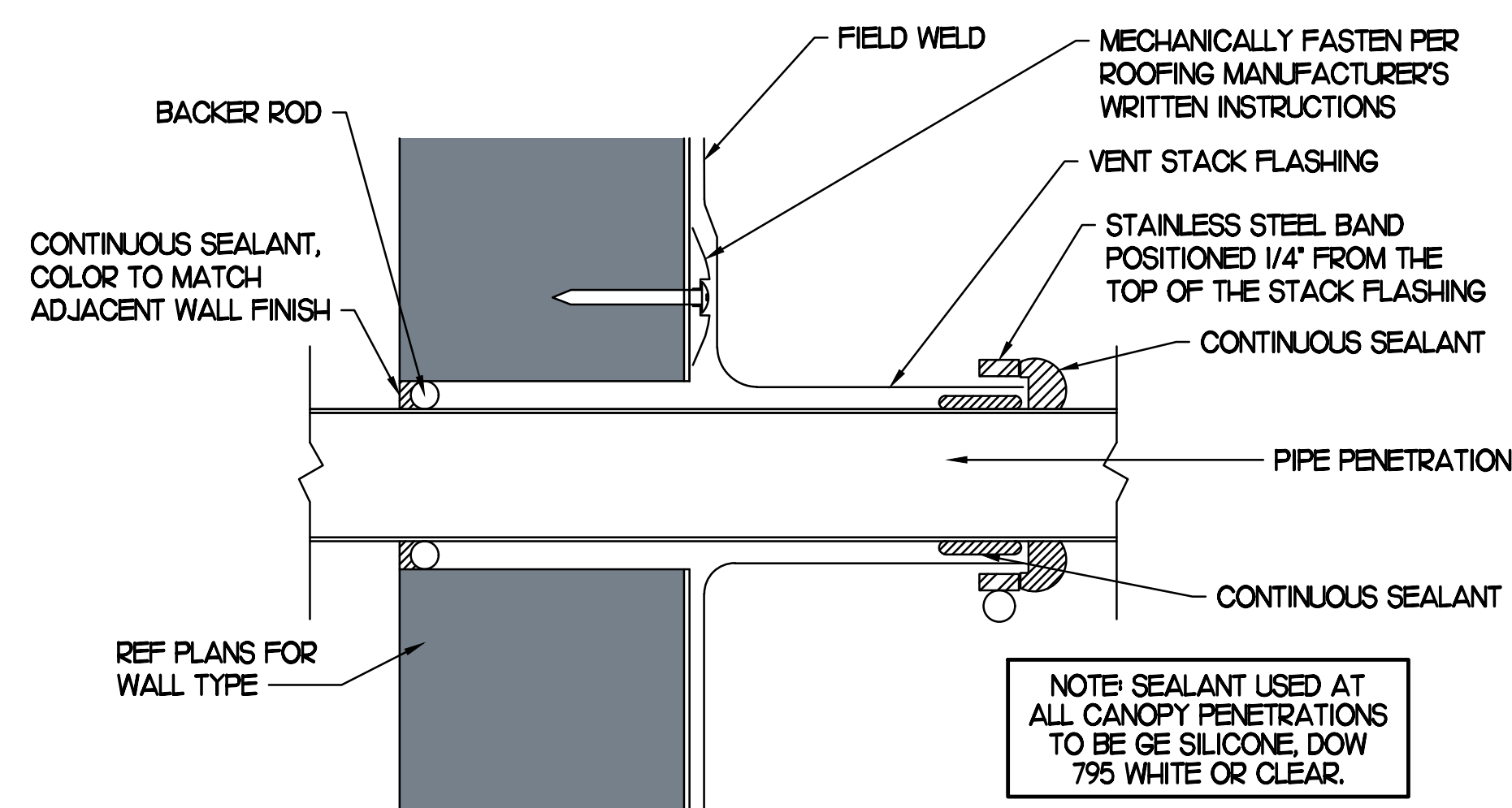
4 PIPING SUPPORT ON MAIN BLDG ROOF

NO SCALE



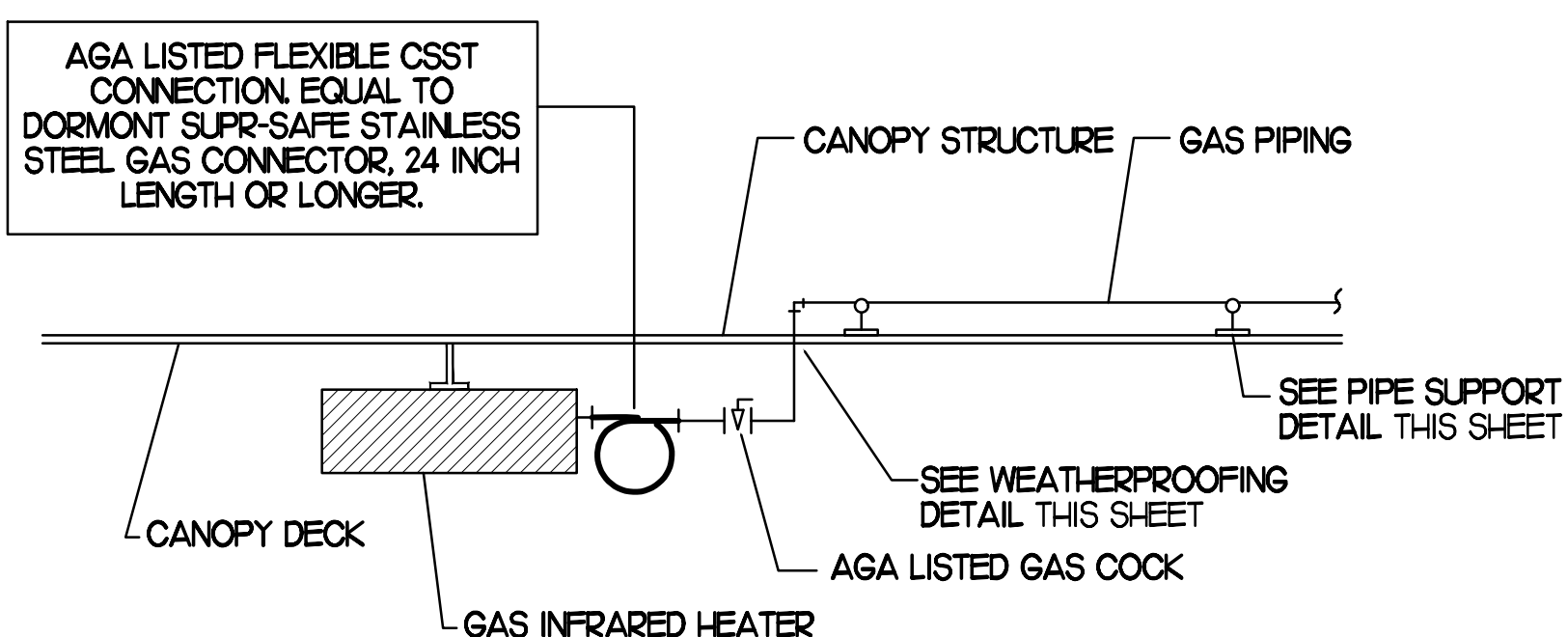
2 WEATHERPROOFING AT CANOPY PENETRATION

NO SCALE



5 PARAPET PENETRATION DETAIL

NO SCALE



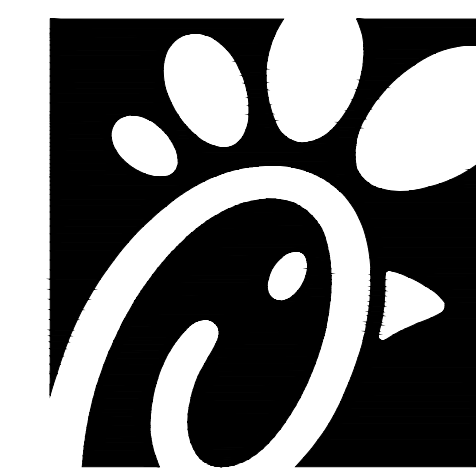
3 GAS CONNECTION AT APPLIANCE

NO SCALE

BROMIC ELECTRIC HEATER SCHEDULE							
MARK	INPUT (KW)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL EH	6.0	56"	8.5"	3.5"	BRACKET	BH-0420035	BROMIC
NOTES	<ul style="list-style-type: none"> CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH BROMIC COMPANY FOR THE ELECTRIC HEATER PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ELECTRIC HEATERS DIRECTLY FROM BROMIC COMPANY. CONTACT BLAKE RUSSIE AT 858-381-4850, FOR PRICING AND AVAILABILITY. BROMIC HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED. 						
REMARKS	<ol style="list-style-type: none"> STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. 						

GAS FIRED INFRARED HEATER SCHEDULE							
MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL GIH	50.0	48"	13"	10"	BRACKET	WB50-N7-CM	SPACE-RAY
REMARKS	<ol style="list-style-type: none"> STEEL BURNER WITH CERAMIC BURNER TILES. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" LATERALLY FROM THE SIDE OF THE HEATER. MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR. PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET. 						

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
REMARKS	<ol style="list-style-type: none"> ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 360 DEG. ROTATING HEAD HORIZONTALLY AND VERTICALLY. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. FACTORY PRE-WIRED POWER CORD. PROVIDE FACTORY WALL MOUNTING BRACKET. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION. 				



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



Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



CHICK-FIL-A
EXETER COMMONS
4675 PERKIOMEN AVE
READING, PA 19606

FSR#02348

BUILDING TYPE / SIZE: S06C-R
RELEASE: v05.22

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
2	02/12/24	Mechanical Revision

CONSULTANT PROJECT # 23127.HF.R
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SHEET
CANOPY DETAILS
& SCHEDULES
SHEET NUMBER

CONSTRUCTION

M5.2

COMcheck Software Version 4.1.5.1
Envelope Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Chick-fil-A #2348
 Location: Reading, Pennsylvania
 Climate Zone: 5a
 Project Type: Addition

Construction Site: 4675 Perkiomen Ave, Reading, PA 19606
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

Building Area	Floor Area
1-Storage/Office (Dining, Cafeteria/Fast Food) - Nonresidential	572

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor _{req}
Roof 1: Insulation Entirely Above Deck: High Albedo Roof Required, [Bldg. Use 1 - Storage/Office]	572	---	30.0	0.032	0.032
Floor 1: Slab-On-Grade/Unheated, Vertical 2 ft., [Bldg. Use 1 - Storage/Office] (b)	113	---	10.0	0.540	0.540
NORTH					
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	195	20.0	0.0	0.064	0.064
SOUTH					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	195	20.0	0.0	0.064	0.064
WEST					
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	653	20.0	0.0	0.064	0.064
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Storage/Office]	28	---	---	0.330	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement
 Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E.
 Name - Title

Mark Kurzynske
 Signature

10/3/23
 Date



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

Kurzynske & Associates
 CONSULTING ENGINEERS
 2705 Lebanon Pike - Suite One
 Nashville, Tennessee 37214
 Telephone: (615) 255-5203



COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Chick-fil-A #2348
 Location: Reading, Pennsylvania
 Climate Zone: 5a
 Project Type: Addition

Construction Site: 4675 Perkiomen Ave, Reading, PA 19606
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

Mechanical Systems List

Quantity	System Type & Description
1	AC#1 (25 ton) (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 389 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et Cooling: 1 each - Single Package DX Unit, Capacity = 282 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 10.60 EER, Required Efficiency: 9.80 EER + 11.4 IER Fan System: AC#1 (25 ton) Kitchen - Compliance (Motor nameplate HP method) : Passes Fans: Supply Supply, Constant Volume, 8500 CFM, 7.5 motor nameplate hp, 0.0 fan efficiency grade Exhaust Exhaust, Constant Volume, 2000 CFM, 0.7 motor nameplate hp, 0.0 fan efficiency grade
1	AC#2 (8.5 ton) (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 99 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.10 EER, Required Efficiency: 11.00 EER + 12.6 IER Fan System: AC#2 (8.5 ton) Dining - Compliance (Motor nameplate HP method) : Passes Fans: Supply Supply, Constant Volume, 2830 CFM, 3.8 motor nameplate hp, 0.0 fan efficiency grade Exhaust Exhaust, Constant Volume, 750 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade
1	AC#3 (10 ton) (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 126 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.10 EER, Required Efficiency: 11.00 EER + 12.6 IER Fan System: AC#3 (10 ton) Dining - Compliance (Motor nameplate HP method) : Passes Fans: Supply Supply, Constant Volume, 4000 CFM, 3.8 motor nameplate hp, 0.0 fan efficiency grade Exhaust Exhaust, Constant Volume, 1000 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade
1	AC#4 (7.5 ton) (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 99 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.30 EER, Required Efficiency: 11.00 EER + 12.6 IER Fan System: AC#4 (7.5 ton) Dining - Compliance (Motor nameplate HP method) : Passes

Quantity System Type & Description

Fans:
 Supply Supply, Constant Volume, 2765 CFM, 3.8 motor nameplate hp, 0.0 fan efficiency grade
 Exhaust Exhaust, Constant Volume, 600 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade

1 AC#5 (5 ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 121 kBtu/h
 Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 62 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 16.40 SEER, Required Efficiency: 14.00 SEER
 Fan System: AC#5 (5 ton) | Play Area - Compliance (Motor nameplate HP method) : Passes

Fans:
 Supply Supply, Constant Volume, 1800 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
 Exhaust Exhaust, Constant Volume, 300 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade

1 AHU#1/UC#1 (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 40 kBtu/h,
 Proposed Efficiency = 10.00 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 34 kBtu/h,
 Proposed Efficiency = 16.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: None

6 GH (Infrared Heater) (Single Zone):
 Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h
 No minimum efficiency requirement applies
 Fan System: None

1 EH (Infrared Heater) (Single Zone):
 Heating: 1 each - Radiant Heater, Electric, Capacity = 20 kBtu/h
 No minimum efficiency requirement applies
 Fan System: None

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E.
 Name - Title

Mark Kurzynske
 Signature

3/6/25
 Date

CHICK-FIL-A
EXETER COMMONS
 4675 PERKIOMEN AVE
 READING, PA 19606

FSR#02348
 BUILDING TYPE / SIZE: S06C-R
 RELEASE: v05.22

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	02/06/25	CD Update

CONSULTANT PROJECT # 23127.HF.R
 PRINTED FOR CONSTRUCTION
 DATE 08/03/2023
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 SHEET
 MECH & ENVELOPE
 COMCHECK
 SHEET NUMBER

M6.1

I. SECTION CIS000 - MECHANICAL SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

- A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
- B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.
- C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.
- E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT (C15730)

- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND ELECTRIC HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND U.L. LISTED.
- B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.
- C. COMPRESSORS SHALL BE FULLY HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
- D. THE UNIT HEATING ELEMENTS SHALL BE BARE NICHROME WIRE EXPOSED TO THE AIR STREAM. HEATING CONTROLS SHALL INCLUDE TIME DELAY THAT SHALL BRING ELEMENTS ON AND OFF IN SEQUENCE WITH TIME DELAY BETWEEN EACH ELEMENT. HEATING SHALL BE PROVIDED IN TWO STAGES. LIMIT CONTROL SHALL PROVIDE OVERLOAD AND SHORT CIRCUIT PROTECTION. HEATER SHALL HAVE A ONE (1) YEAR WARRANTY.

- E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE DWG M2.1 FOR ADDITIONAL GREASE DUCT SYSTEM REQ.)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- E. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- G. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- H. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.
- I. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.
- J. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.
- K. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M3.1.
- L. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.
- M. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.
- N. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- O. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
- P. RADIUSSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO, R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS (C15735)

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO EXISTING CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU OR AHU. PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

G. LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA TSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. SOME UNITS MAY HAVE MORE THAN ONE SENSOR. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT OR AHU.

- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

PART III - EXECUTION

3.01 SCOPE

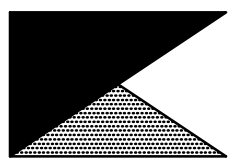
- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- B. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
- C. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.
- D. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- E. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.

NATIONAL ACCOUNTS

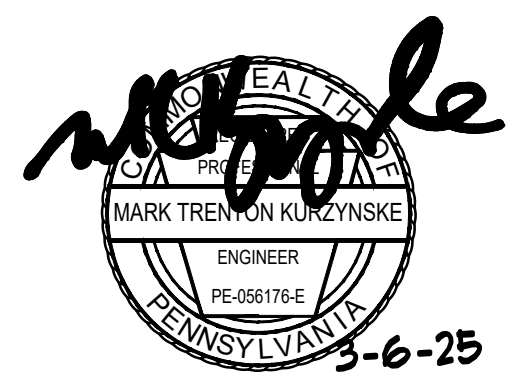
1.	LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.	6.	ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
2.	LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.	7.	SPACE-RAY INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
3.	PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.	8.	CIRCULATING FAN PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVIALABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
4.	AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.	9.	BROMIC ELECTRIC HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER DIRECTLY FROM BROMIC COMPANY. CONTACT BLAKE RUSSIE AT 858-381-4850 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED.
5.	HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.		



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



Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



CHICK-FIL-A
EXETER COMMONS
4675 PERKIOMEN AVE
READING, PA 19606

FSR#02348

BUILDING TYPE / SIZE: S06C-R
RELEASE: v05.22

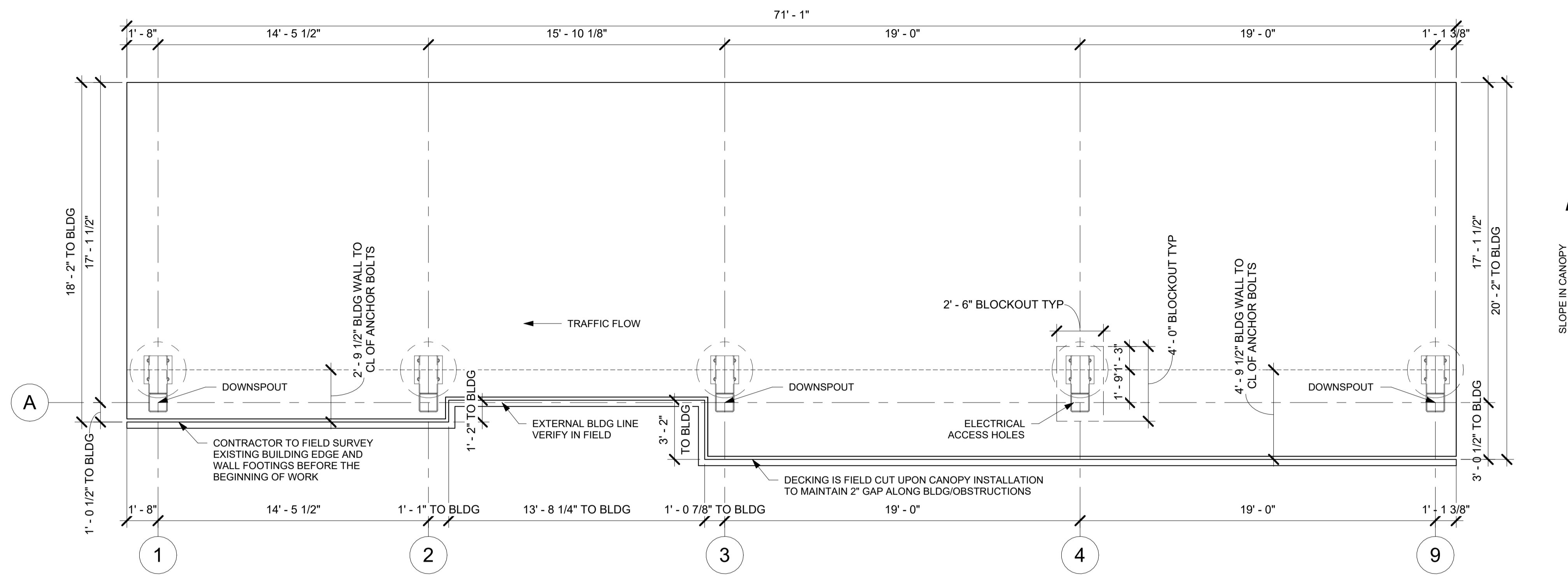
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
2	02/12/24	Mechanical Revision

CONSULTANT PROJECT # 23127.HF.R
PRINTED FOR CONSTRUCTION
DATE 08/03/2023
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SHEET
MECHANICAL SPECIFICATIONS
SHEET NUMBER

CONSTRUCTION

M7.1



REQUIRED VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
INSPECTION OF FABRICATORS			
STEEL CONSTRUCTION			
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS	-	X	AISC 360, SECTION A3.3
INSPECTION OF HIGH STRENGTH BOLTING	-	X	AISC, SECTION M2.5
INSPECTION OF WELDING-VISUAL SINGLE PASS WELDS 5/16" AND LESS	-	X	AWS D1.1
ROOF DECK	-	X	APPLICABLE ASTM MATERIAL STANDARDS
CONCRETE CONSTRUCTION			
REINFORCING STEEL, INCLUDING PLACEMENT	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1-26.5.3
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
VERIFYING USE OF REQUIRED CONCRETE MIX	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4
CONCRETE SAMPLING FOR STRENGTH, SLUMP, TEMPERATURE AND AIR CONTENT	X	-	ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12
INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF MEMBERS BEING FORMED	-	X	ACI 318: 26.10.1(b)
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	-	ACI 318: 26.4.7-26.4.9
INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.4.5
SOIL			
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	-	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	-	
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVED SURGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X	

REV.	DATE	BY	DESCRIPTION

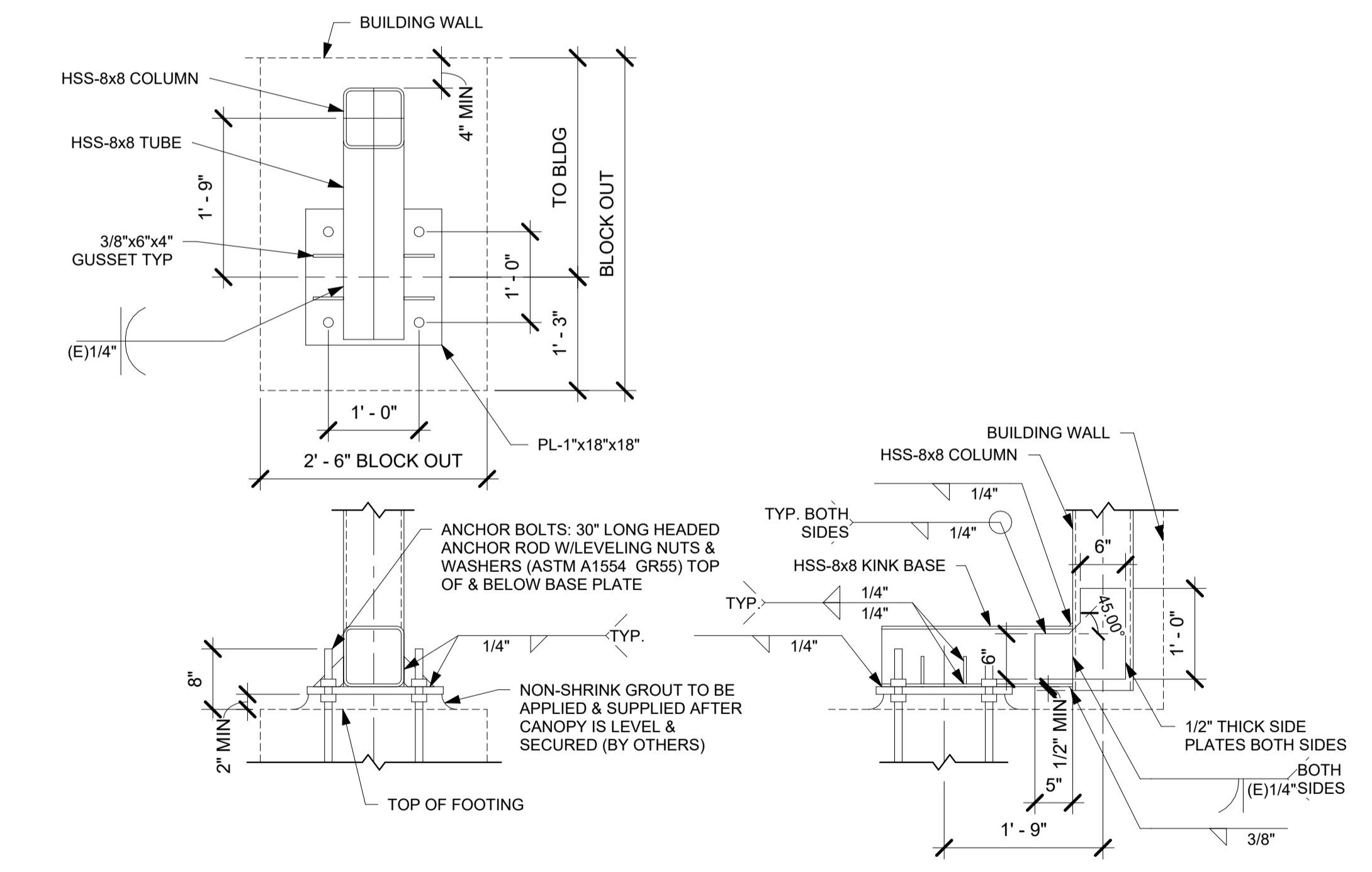
The Owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed in the Schedule of Special Inspections. The special inspector shall be a qualified person certified by the PA Department of Community Affairs who shall demonstrate competence to the satisfaction of the Building Official, and be approved by the Structural Engineer of Record, for inspection of the particular type of construction or operation requiring special inspection.

The contractor shall be responsible to notify and coordinate all required special inspections with the special inspection agency prior to performing any work that requires special inspections. The contractor shall notify the special inspection agency at least 24 hours in advance to performing any work that requires special inspections.

Job safety is solely the responsibility of the contractor. Materials and activities to be inspected are not to include the contractor's equipment and methods used to erect or install the materials listed.

The Special Inspectors shall keep records of all inspections and shall furnish inspection reports to the Construction Official and to the Structural Engineer of Record. All discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be immediately brought by the Special Inspector to the attention of the Code Official and the Structural Engineer of Record.

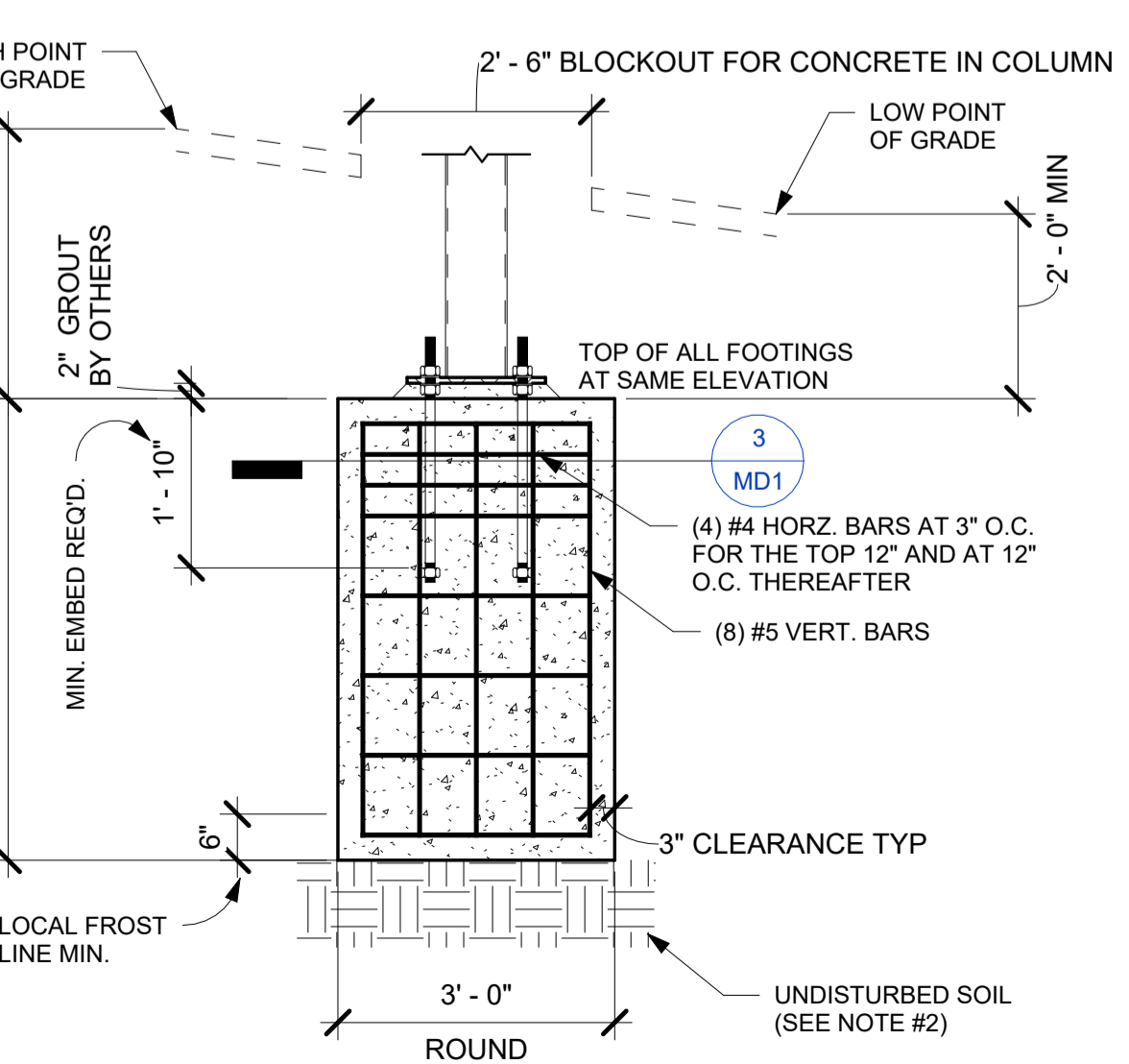
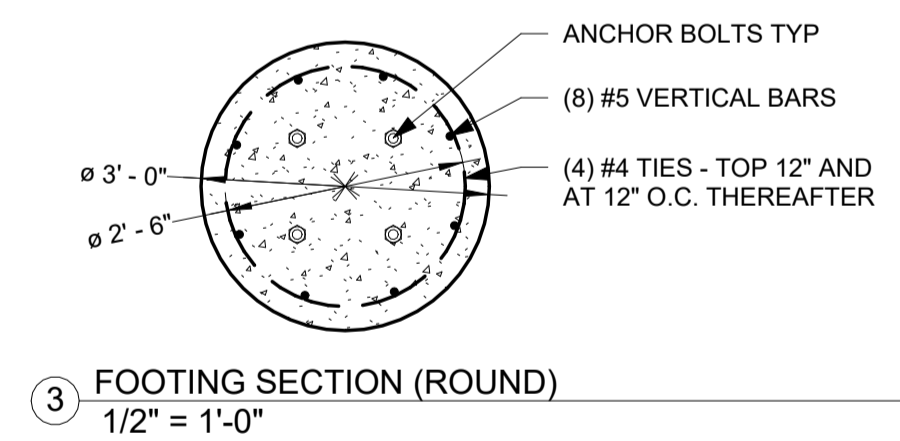
The special inspection agency shall submit a final report signed and sealed by a Pennsylvania PE that is in charge of the inspectors. This final report shall document all required special inspections, test or structural observations and any discrepancies noted in these inspections.



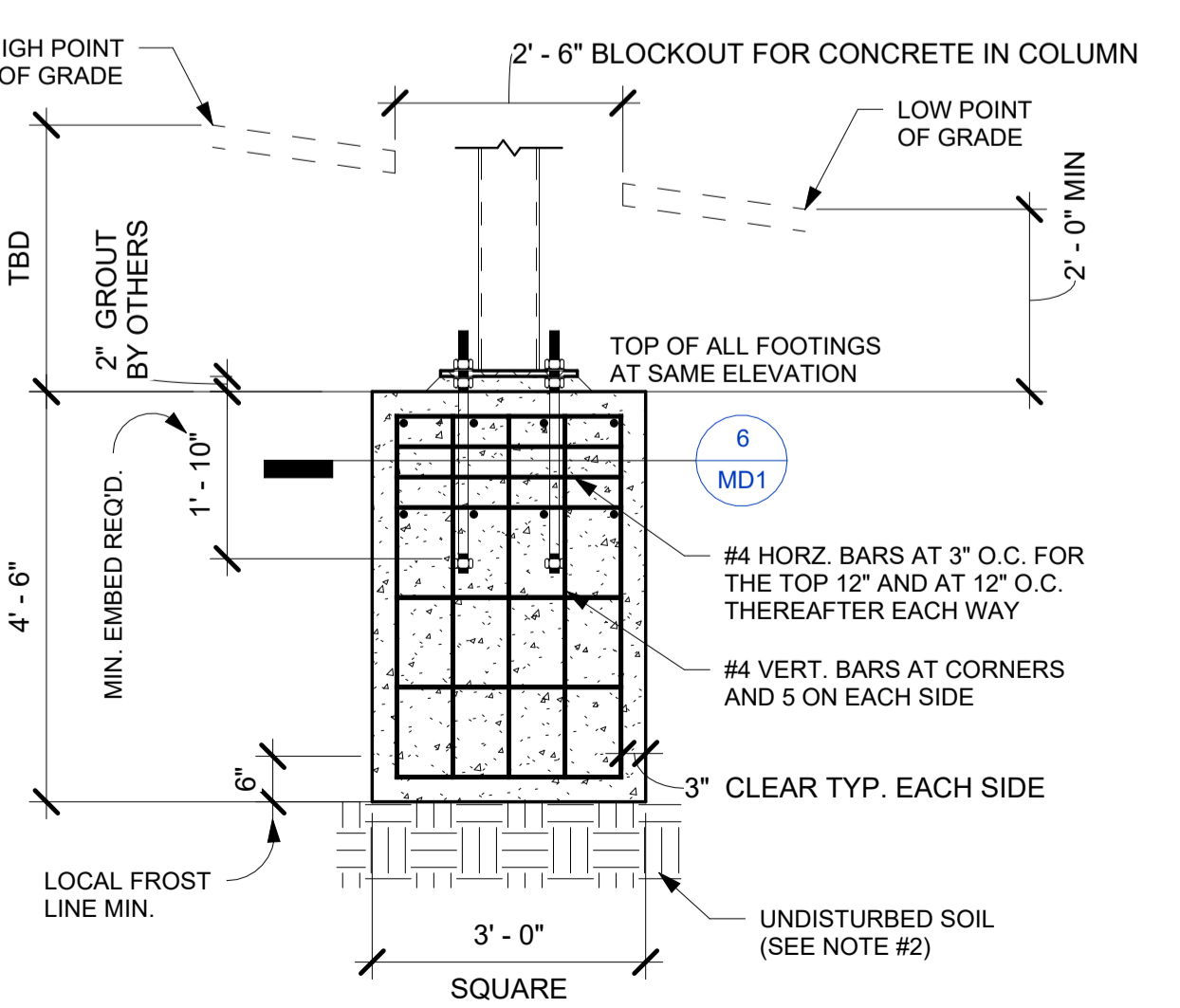
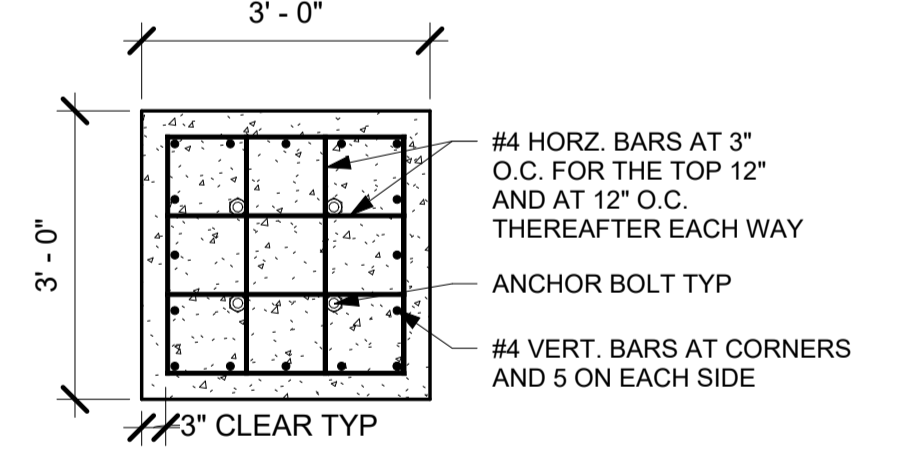
7 BASEPLATE DETAIL
3/4" = 1'-0"

FOOTING NOTES

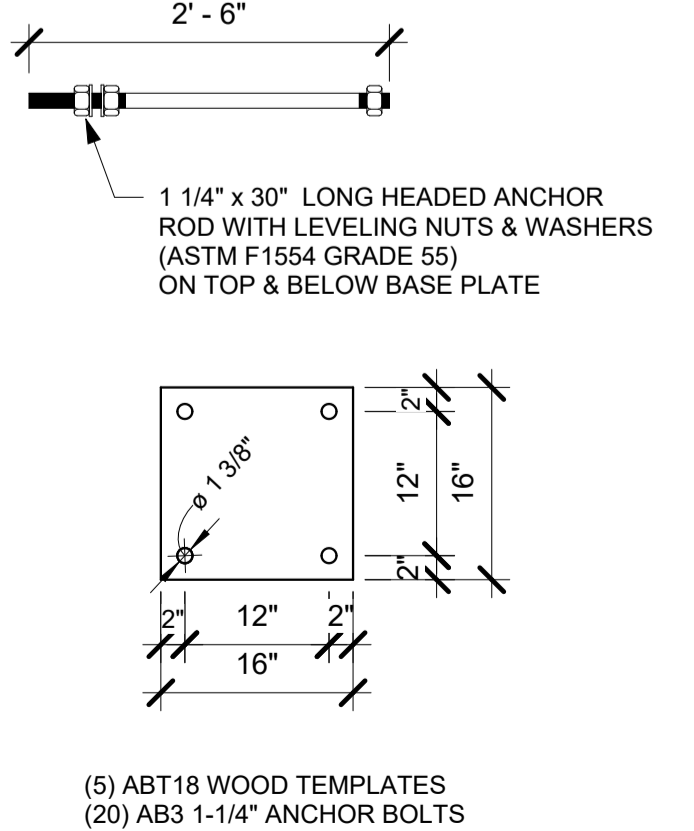
- OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION.
- ALL FOOTINGS SHALL BE CAST ON LEVEL UNDISTURBED SOIL, ROCK OR PROPERLY COMPACTED SUBGRADE. FOOTING SIZE BASED ON MAXIMUM 3000 PSF SOIL BEARING AT BASE AND 200 PSF PER FOOT OF DEPTH LATERAL BEARING CAPACITY PER GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SOIL PARAMETERS AND FOLLOWING APPLICABLE SOIL PREPARATION RECOMMENDATIONS.
- FOOTING CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- FOOTING DESIGN BASED ON AN ASSUMED 1'-6" BURY OF THE COLUMNS FROM THE BOTTOM OF BASEPLATE TO FINISHED GRADE. ANY AMOUNT OF BURY LESS THAN 1'-0" WILL RESULT IN A LARGER FOOTING SIZE.
- TOPS OF ALL FOOTINGS ARE ASSUMED TO BE AT SAME ELEVATION. OWNER / GENERAL CONTRACTOR SHALL PROVIDE BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND UNDER SIZED FOOTINGS.
- OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVELED AND SECURED.
- FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BILLET STEEL BARS WITH SPACING AS SHOWN ON DRAWING.
- FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE, WHERE THIS CONDITION DOES NOT EXIST, THE OWNER SHALL NOTIFY CANOPY MANUFACTURER.
- ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 6" OF THREAD IS EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.
- ANY DISCREPANCIES BETWEEN THE ABOVE NOTES AND LOCAL BUILDING CODE REQUIREMENTS SHALL BE REPORTED TO THE CANOPY MANUFACTURER IMMEDIATELY. COMMENCEMENT OF FOOTING INSTALLATION SHALL INDICATE THAT THE ABOVE NOTE MEETS LOCAL BUILDING CODE REQUIREMENTS.



2 ROUND FOUNDATION DETAIL
1/2" = 1'-0"



4 SQUARE FOUNDATION DETAIL
1/2" = 1'-0"



5 ABT18 12"x12" 4 BOLT TEMPLATE
3/4" = 1'-0"



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4675 PERKIOIMEN AVE
READING, PA

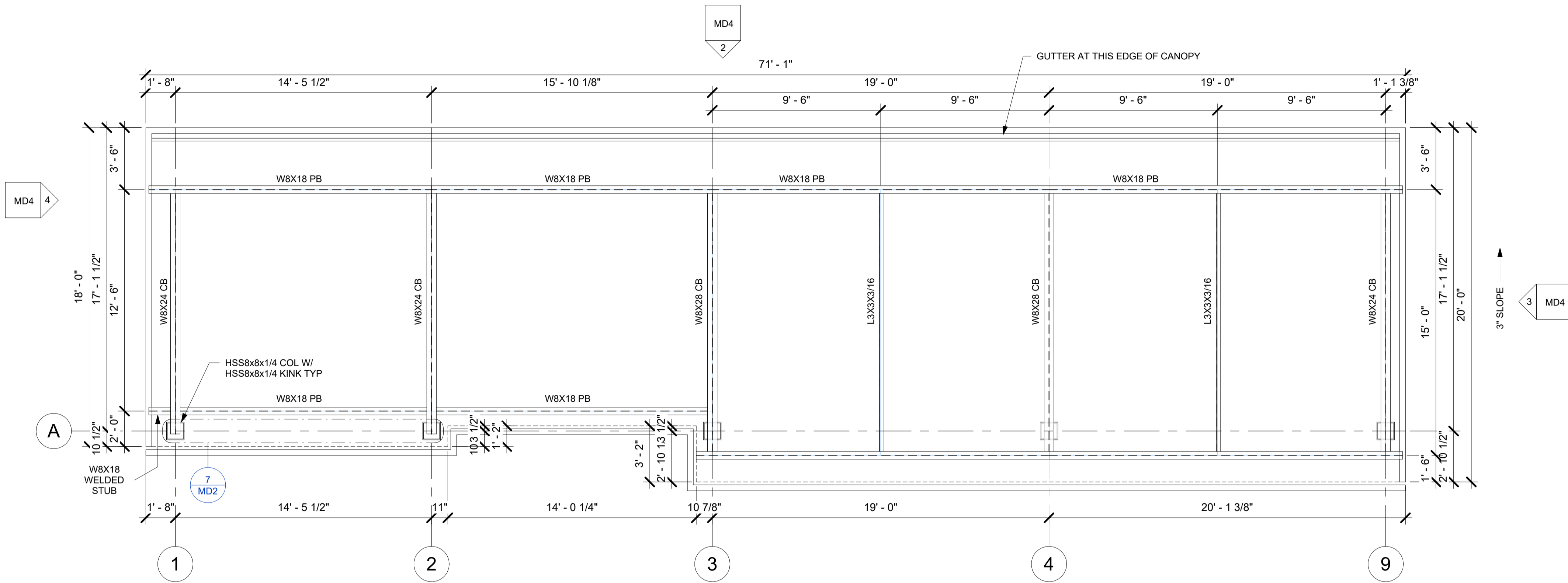
ISSUE DATE: 8/10/23
DRAWN BY: JDG
CHECKED BY: MPP

JOB NUMBER: 623481

SHEET TITLE: FOUNDATION PLAN

SHEET NUMBER: MD1

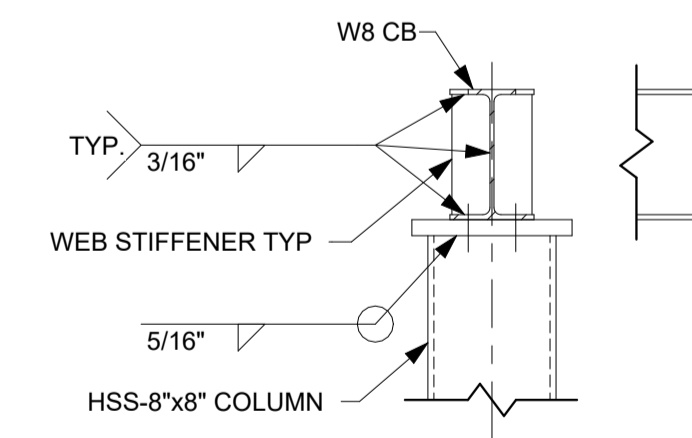
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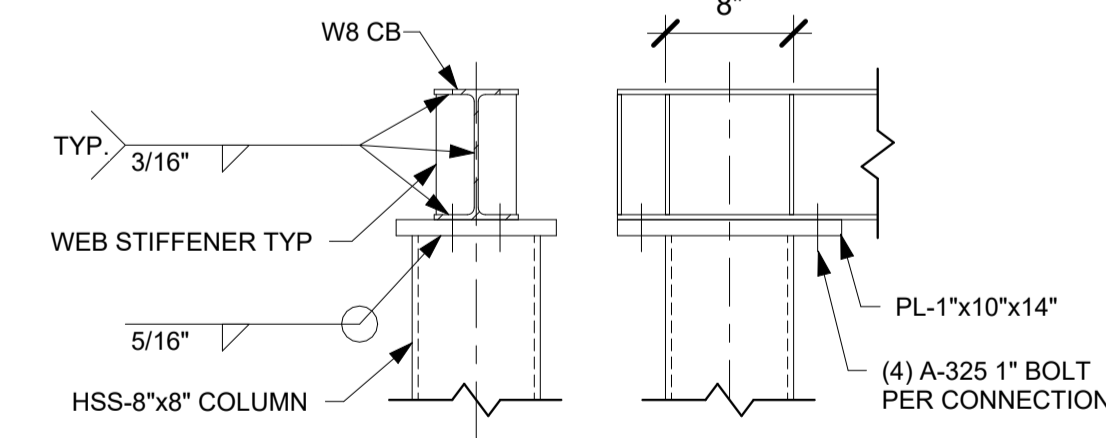
1 FRAMING PLAN
1/4" = 1'-0"

STEEL NOTES

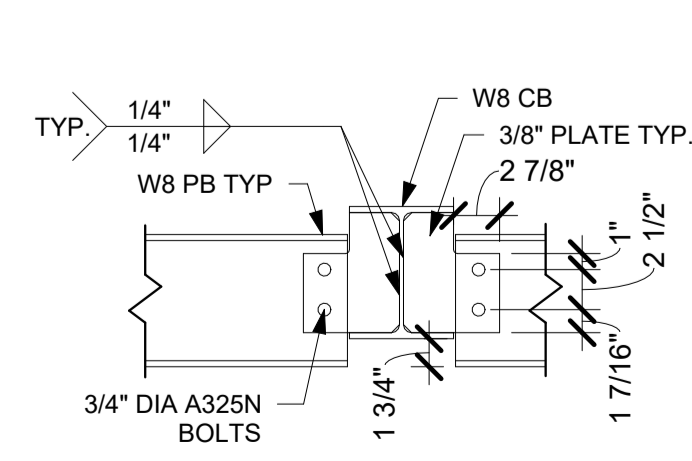
- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
- STRUCTURAL MATERIALS:
WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 ($F_y = 50$ KSI)
ANGLES / CHANNELS - ASTM A36 ($F_y = 36$ KSI)
HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B ($F_y = 46$ KSI)
PIPE SECTIONS - ASTM A53, GRADE B ($F_y = 35$ KSI)
PLATE - ASTM A36 ($F_y = 36$ KSI)
FASCIA - ACM FASCIA
ROOF DECK - ASTM A653, GRADE 50 ($F_y = 50$ KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
STEEL OUTRIGGERS - ASTM A653 GR. CS ($F_y = 25$ KSI), GALVANIZED (G90) PER ASTM 924
STRUCTURAL BOLTS - ASTM A325
ANCHOR BOLTS - ASTM F1554 GR. 55
- WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
- FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
- ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
- STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
- DESIGN LOADS PER 2018 INTERNATIONAL BUILDING CODE AND LOCAL AMENDMENTS AND REQUIREMENTS:
ROOF LIVE LOAD = 20.0 PSF
FLAT ROOF SNOW LOAD = 43.8 PSF
BASED ON GROUND SNOW LOAD = 45 PSF
- WIND LOADS:
LATERAL = 39.6 PSF (ULTIMATE)
UPLIFT = 14.8 PSF (ULTIMATE)
BASED ON 113 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'B' PER ASCE 7-16.
RISK CATEGORY II
- SEISMIC LOADS:
SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
 $S_{DS} = 0.188g$ ($S_s = 0.176g$, $F_a = 1.6$), $S_{D1} = 0.076g$ ($S_1 = 0.047g$, $F_v = 2.4$)
SEISMIC FORCE RESISTING SYSTEM IS ORDINARY STEEL CANTILEVERED COLUMN SYSTEM, $R = 1.25$
 $C_s = 0.150$
- DEAD LOADS:
DECK / GUTTER / LIGHTS - 4.5 PSF
FASCIA - 2.5 PSF
STRUCTURAL STEEL - SELF WT
CONCRETE - 150 PCF



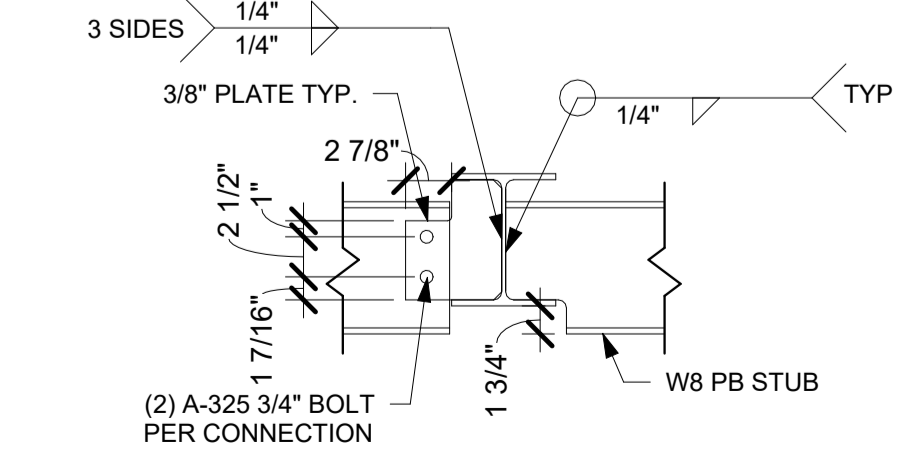
3 COLUMN / CROSSBEAM CONNECTION
1" = 1'-0"



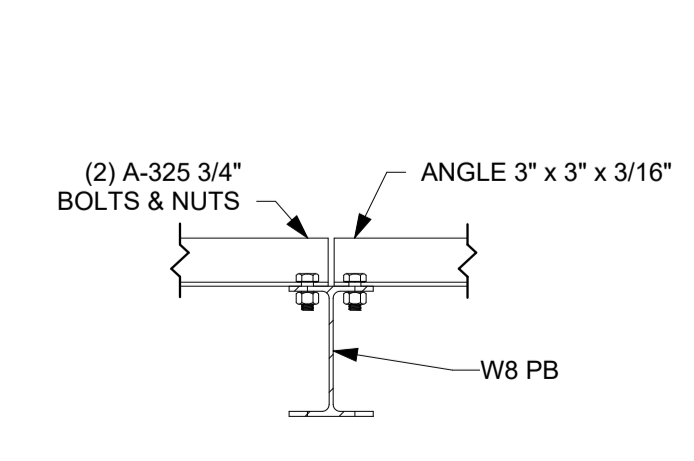
7 COLUMN / CROSSBEAM CONNECTION
1" = 1'-0"



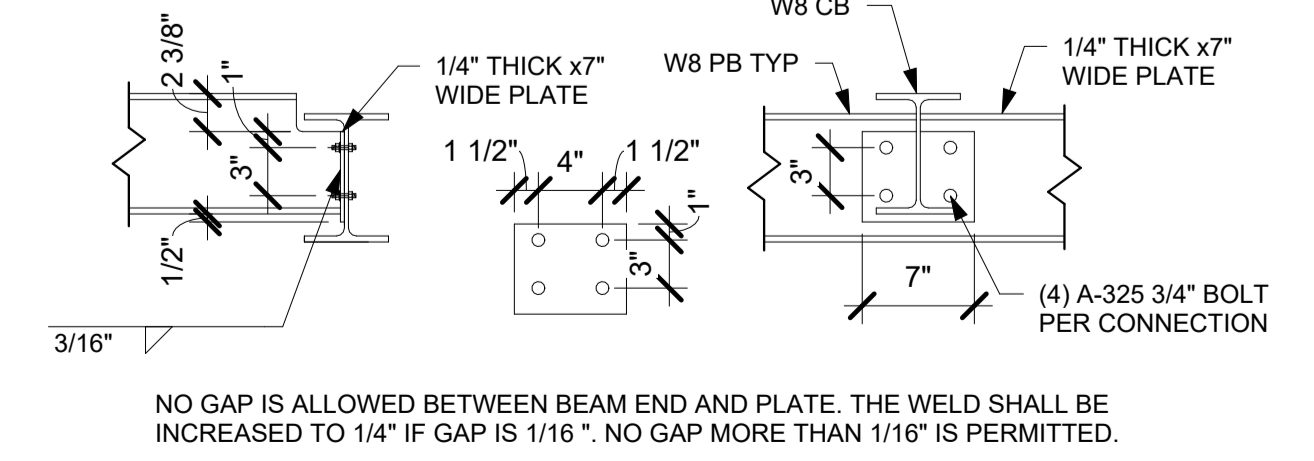
4 INNER PURLIN CONNECTION
1" = 1'-0"



5 WELDED PURLIN CONNECTION
1" = 1'-0"



6 LATERAL BRACING
1" = 1'-0"



2 CONTINUOUS PURLIN CONNECTION
1" = 1'-0"

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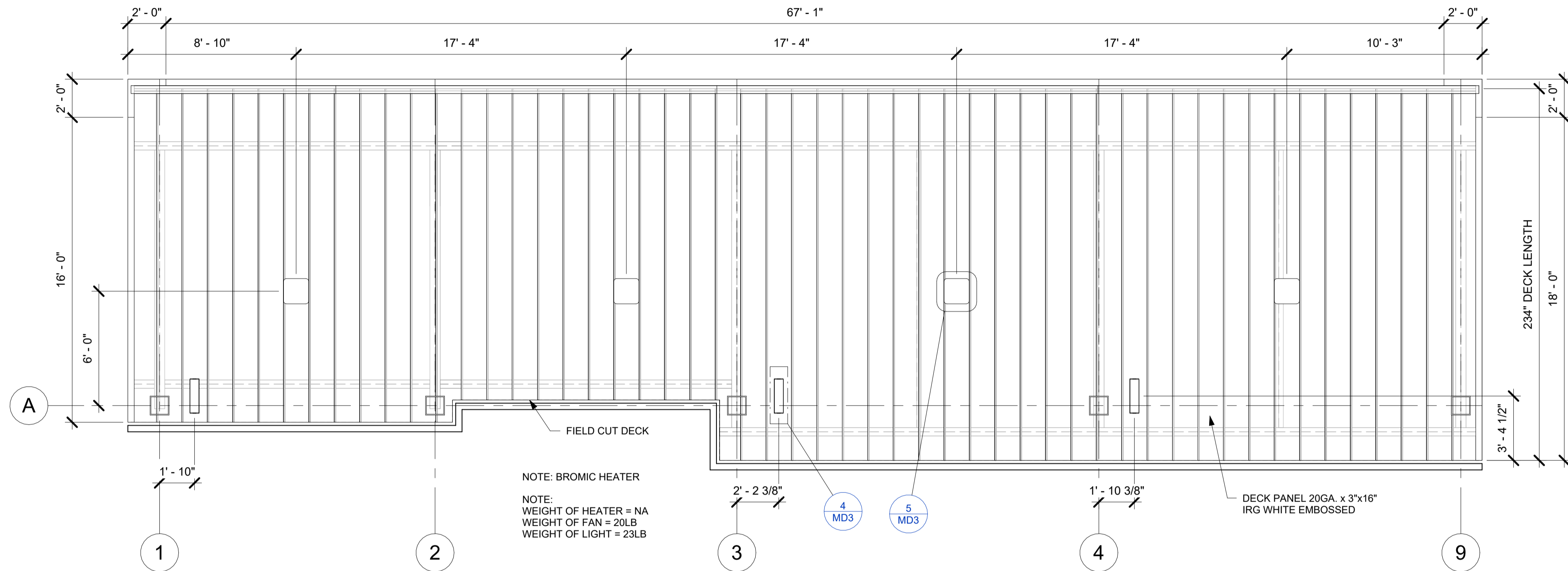
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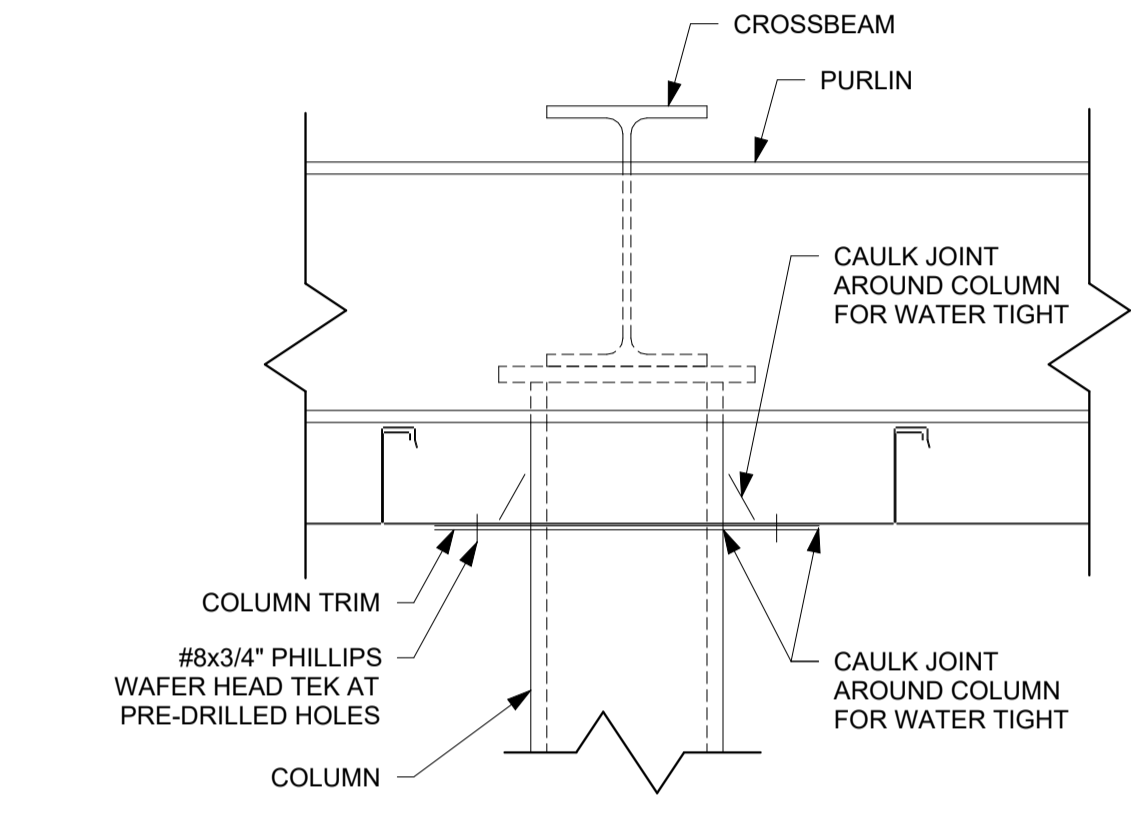
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SHEET TITLE: FRAMING PLAN

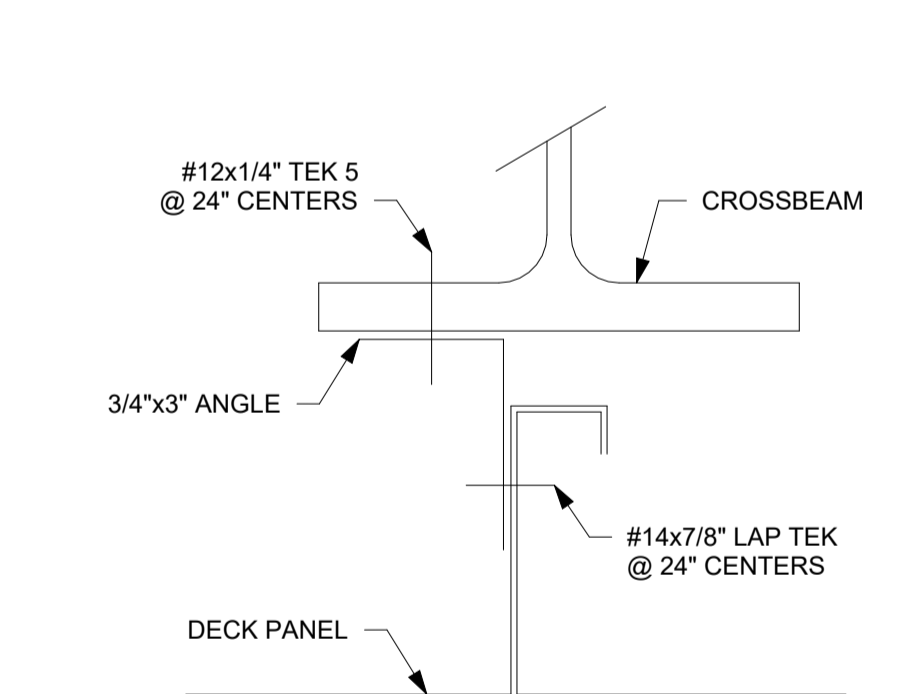
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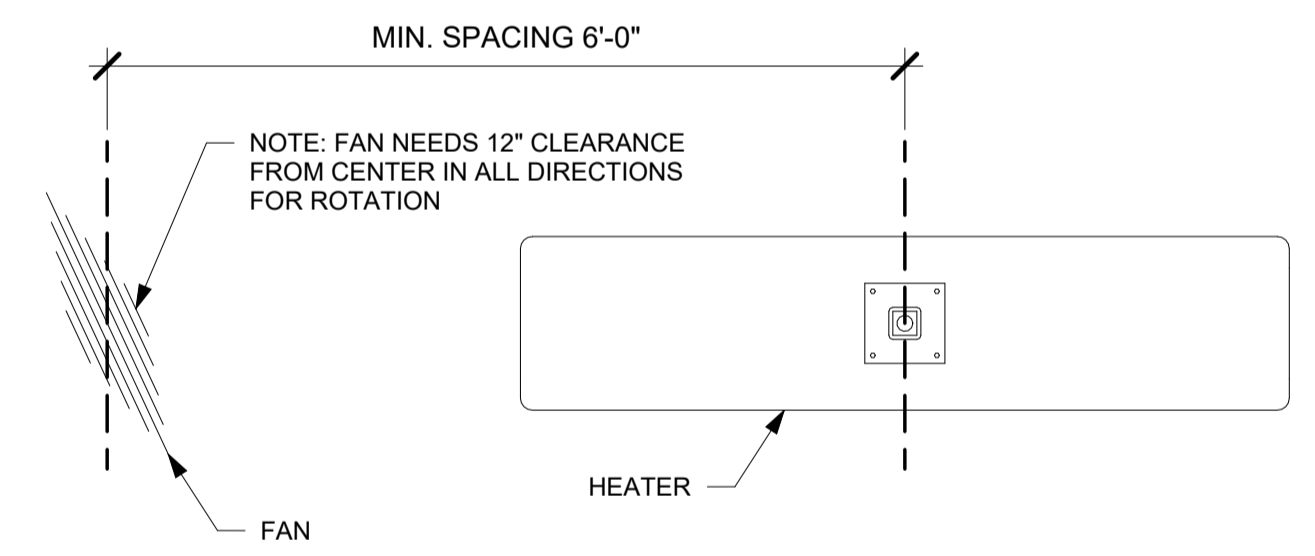
1 REFLECTED CEILING PLAN
1/4" = 1'-0"



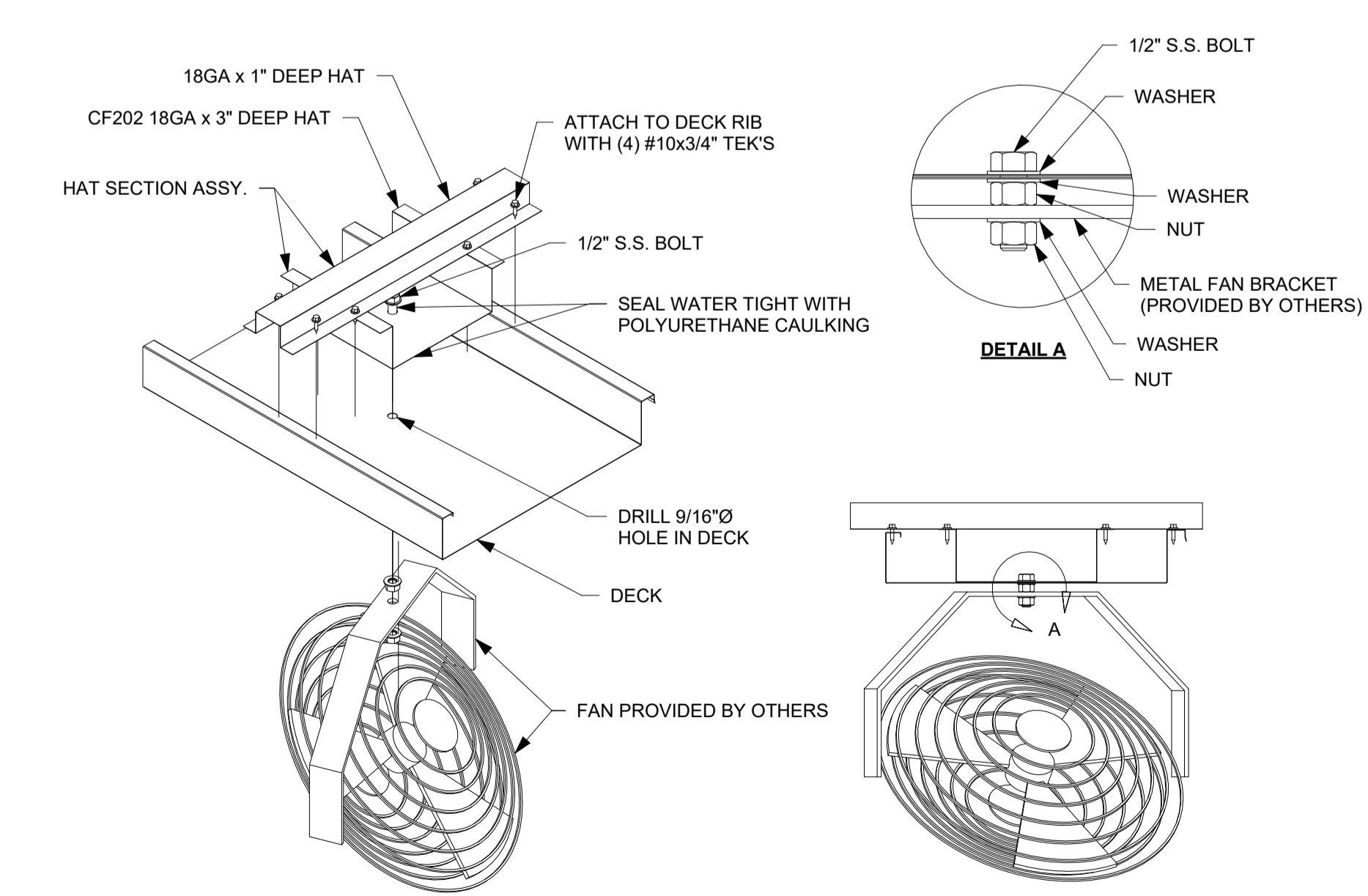
8 COLUMN CAULKING
12" = 1'-0"



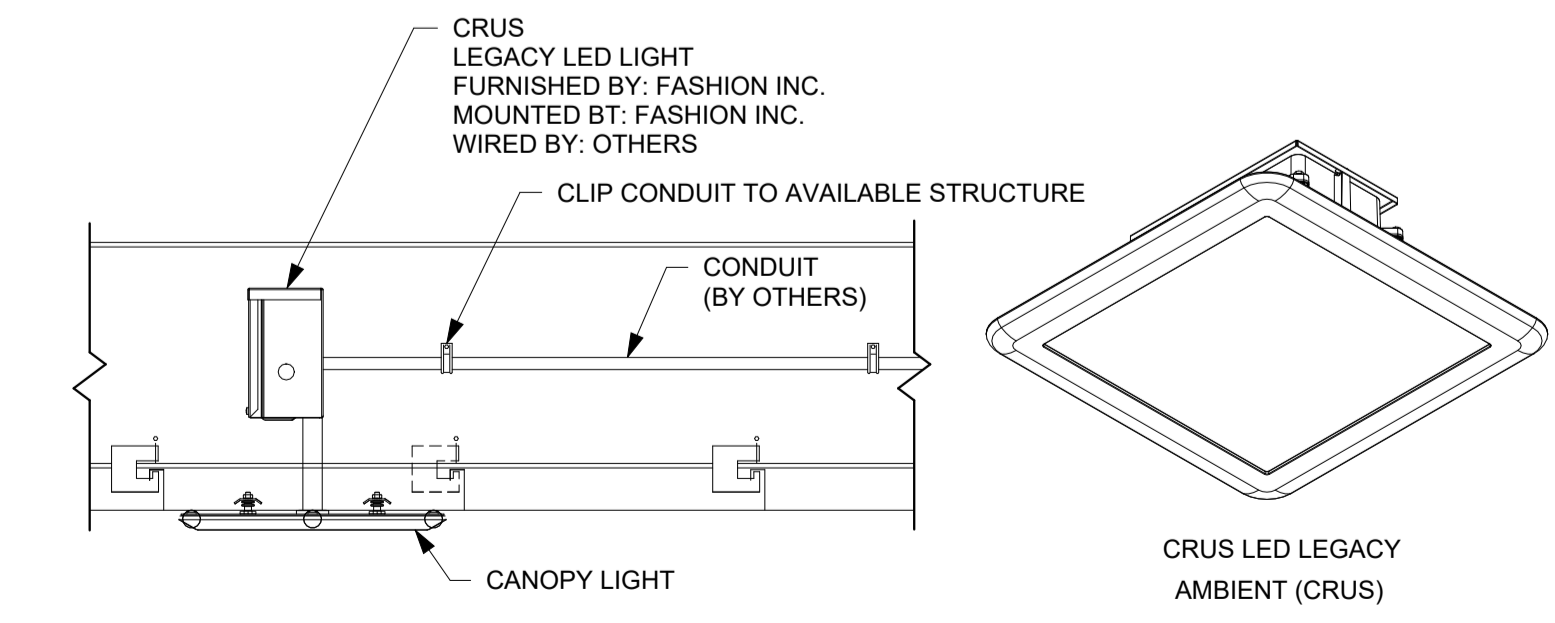
7 DECK PANEL RIB UNDER BEAM
12" = 1'-0"



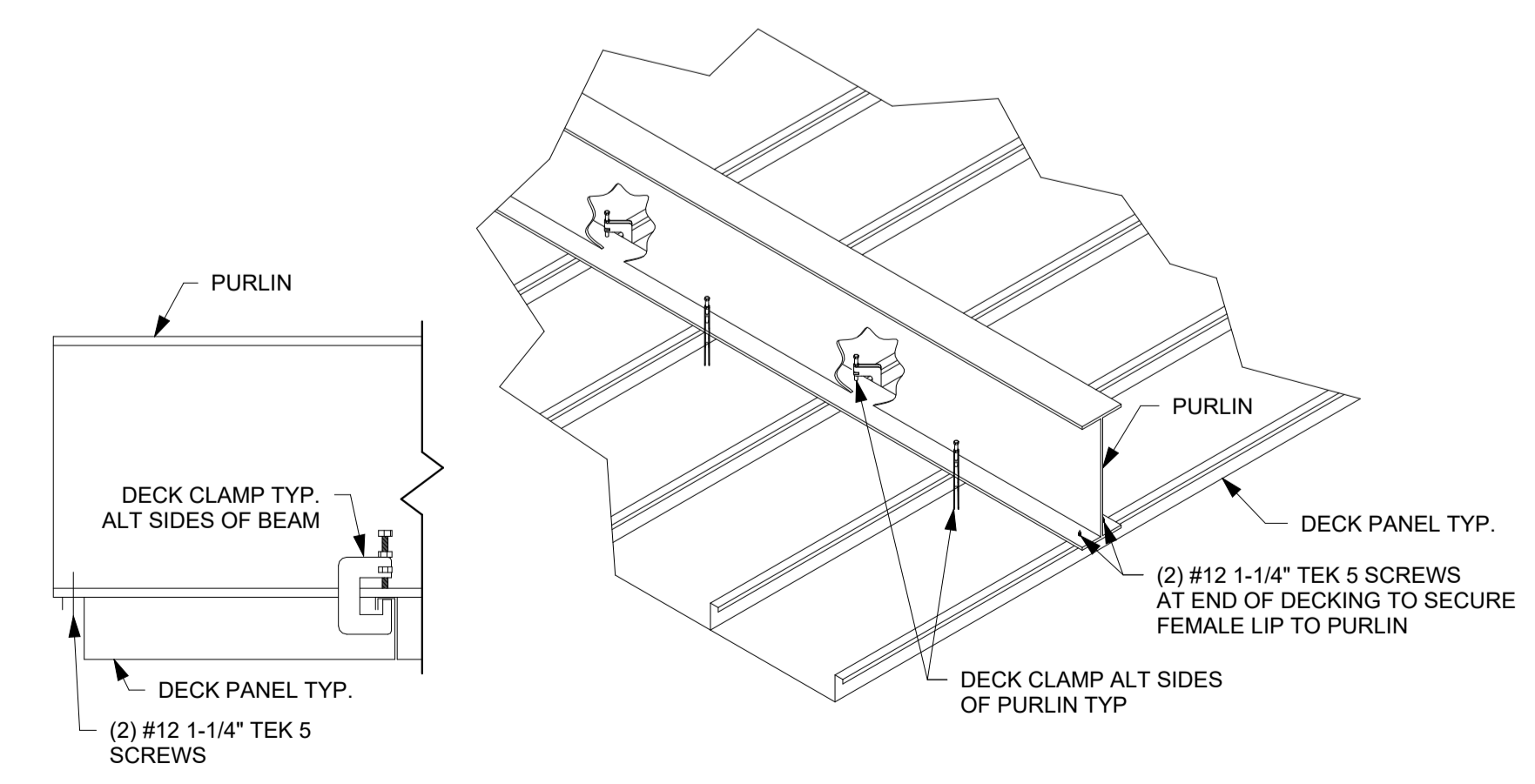
3 MIN. HEATER / FAN SPACING
12" = 1'-0"



4 FAN BRACKET DETAIL
1" = 1'-0"



5 CANOPY LIGHT DETAIL
1" = 1'-0"



6 DECK CLAMP DETAIL
1 1/2" = 1'-0"



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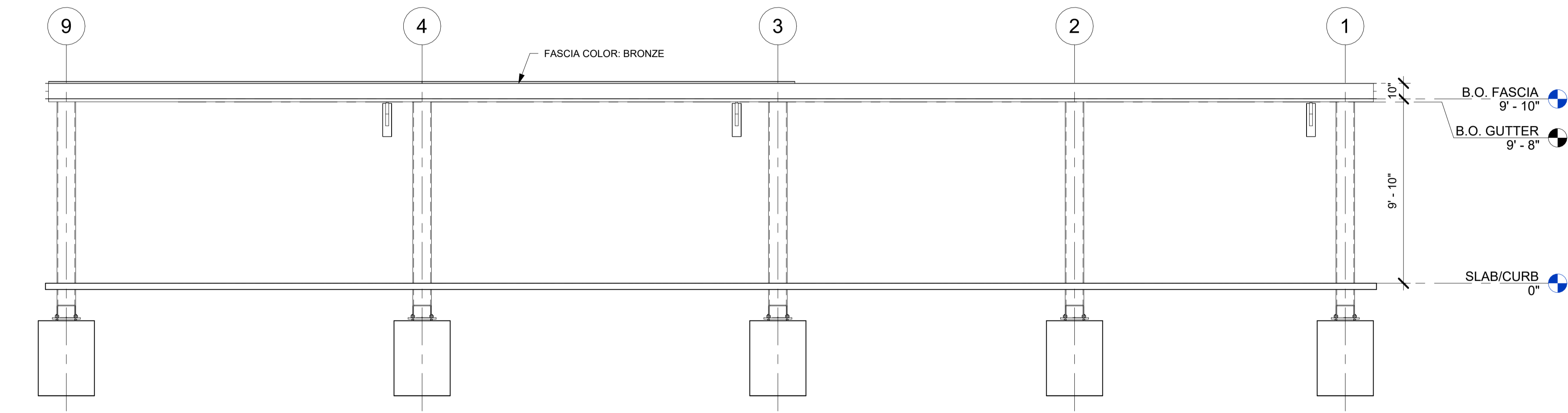
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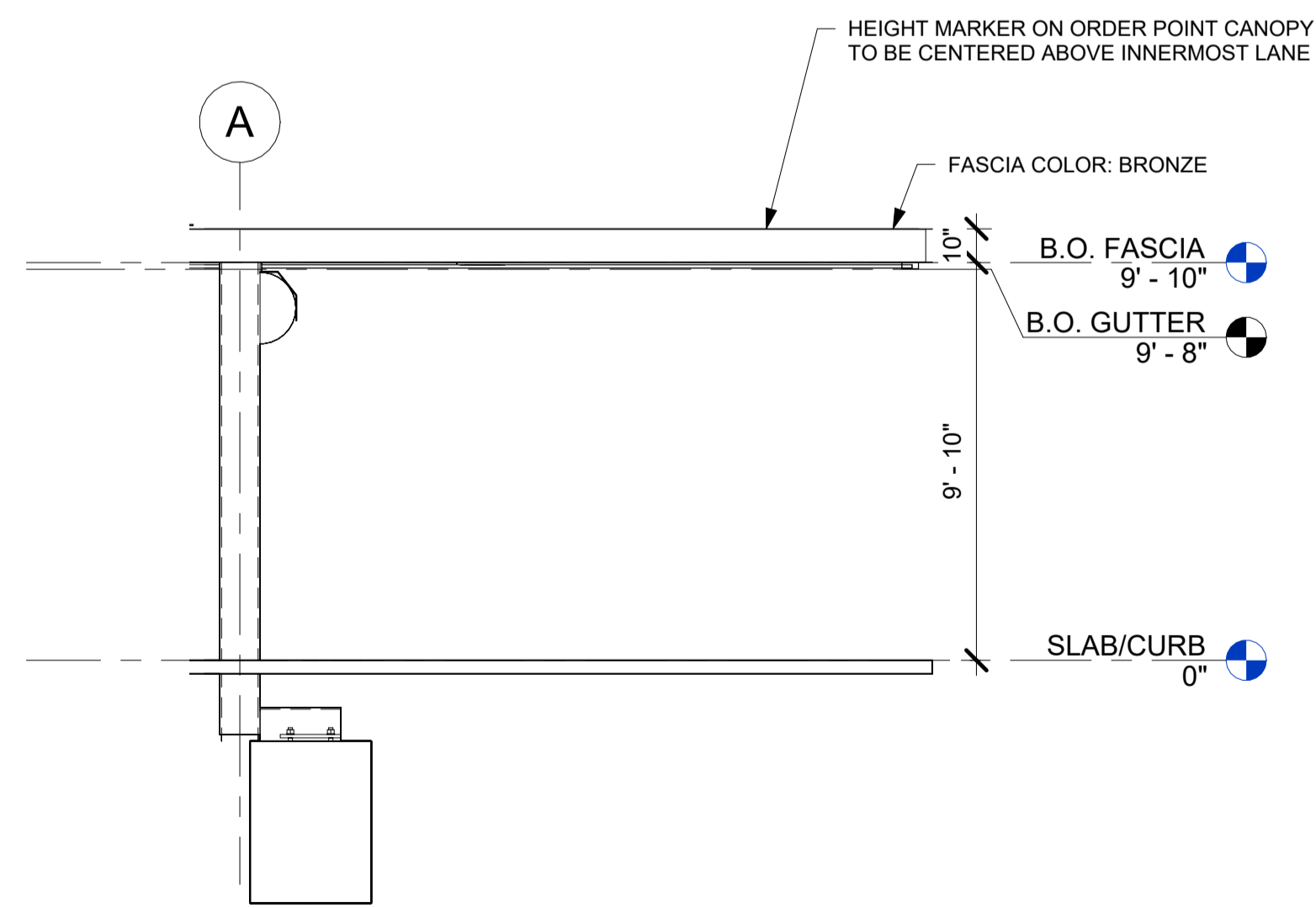
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SHEET TITLE: REFLECTED CEILING PLAN

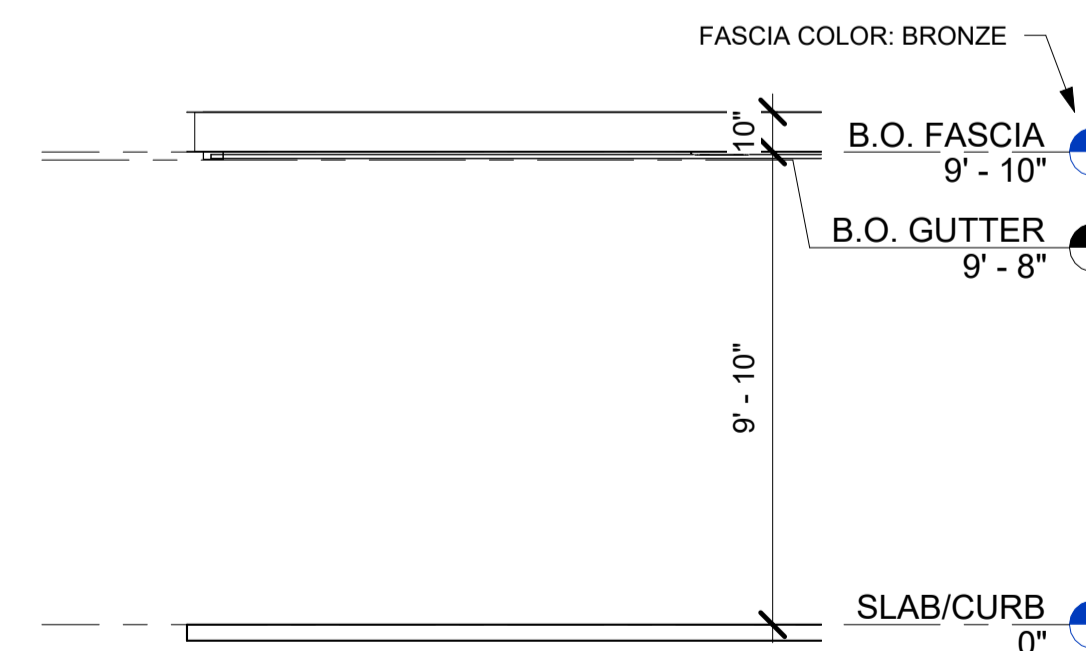
SHEET NUMBER: MD3



② FRONT
1/4" = 1'-0"



③ RIGHT
1/4" = 1'-0"



④ LEFT
1/4" = 1'-0"

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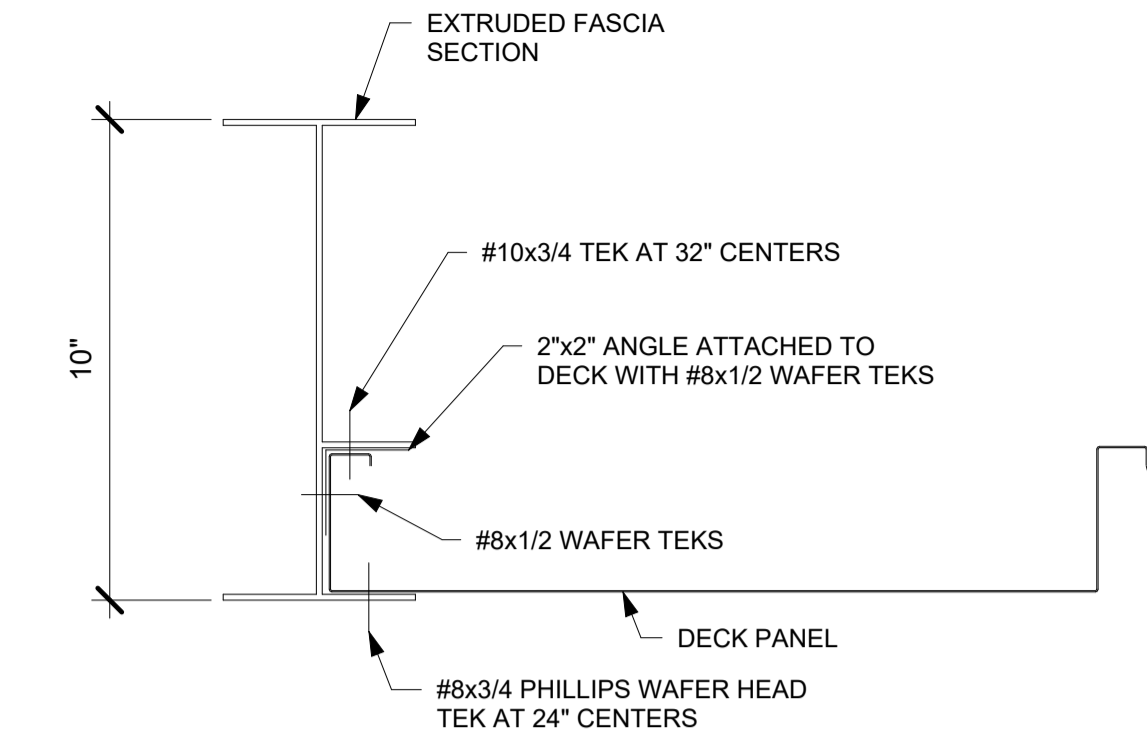
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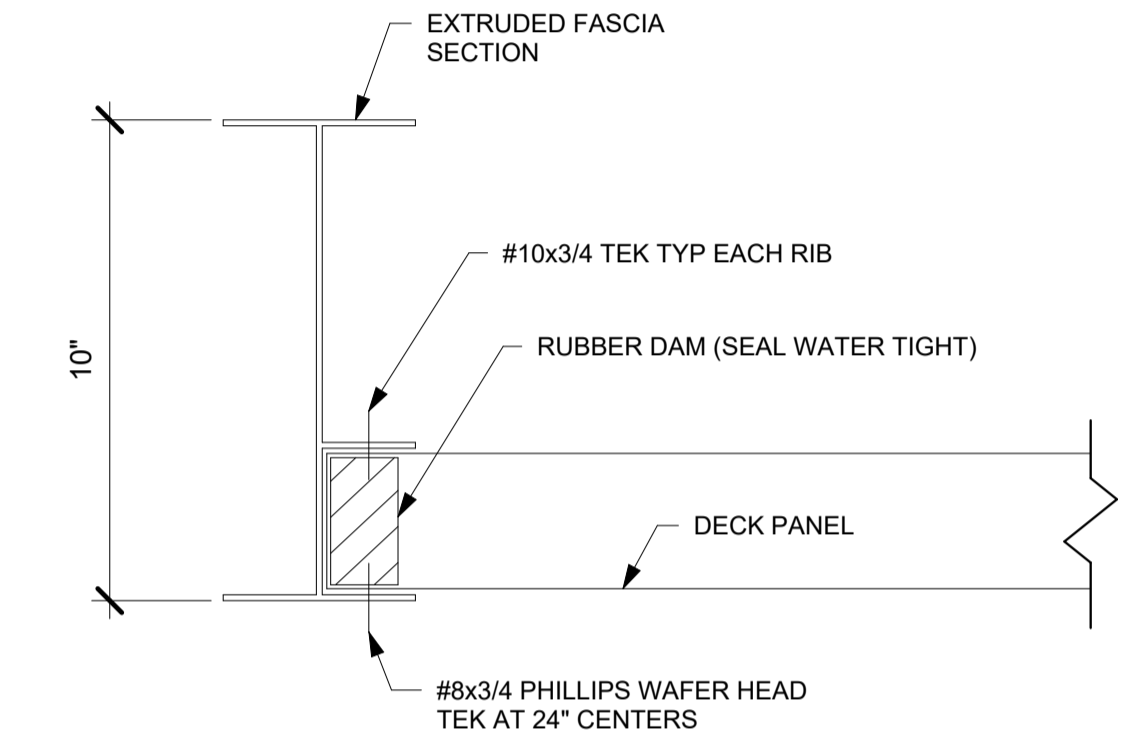
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SHEET TITLE: ELEVATIONS

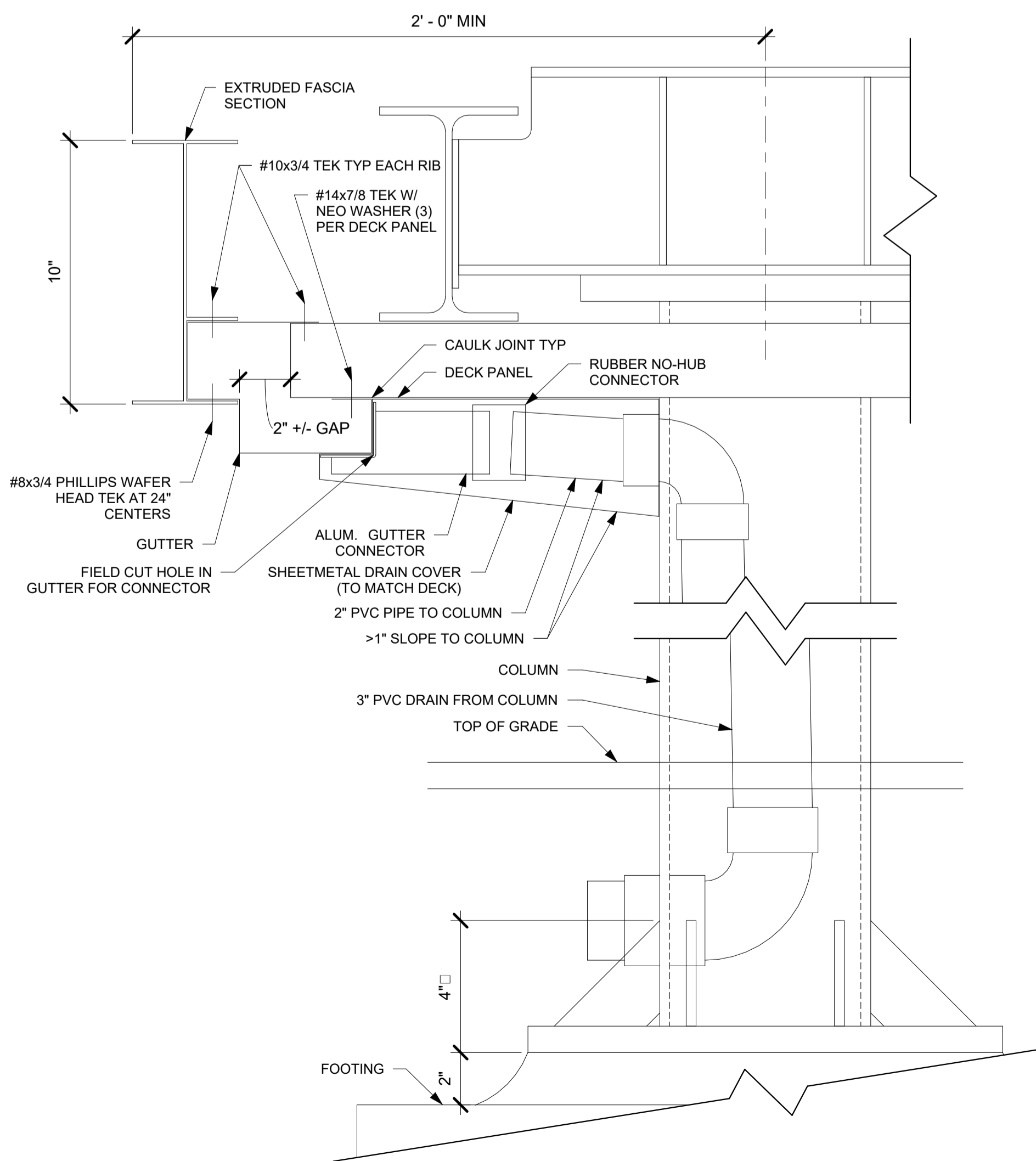
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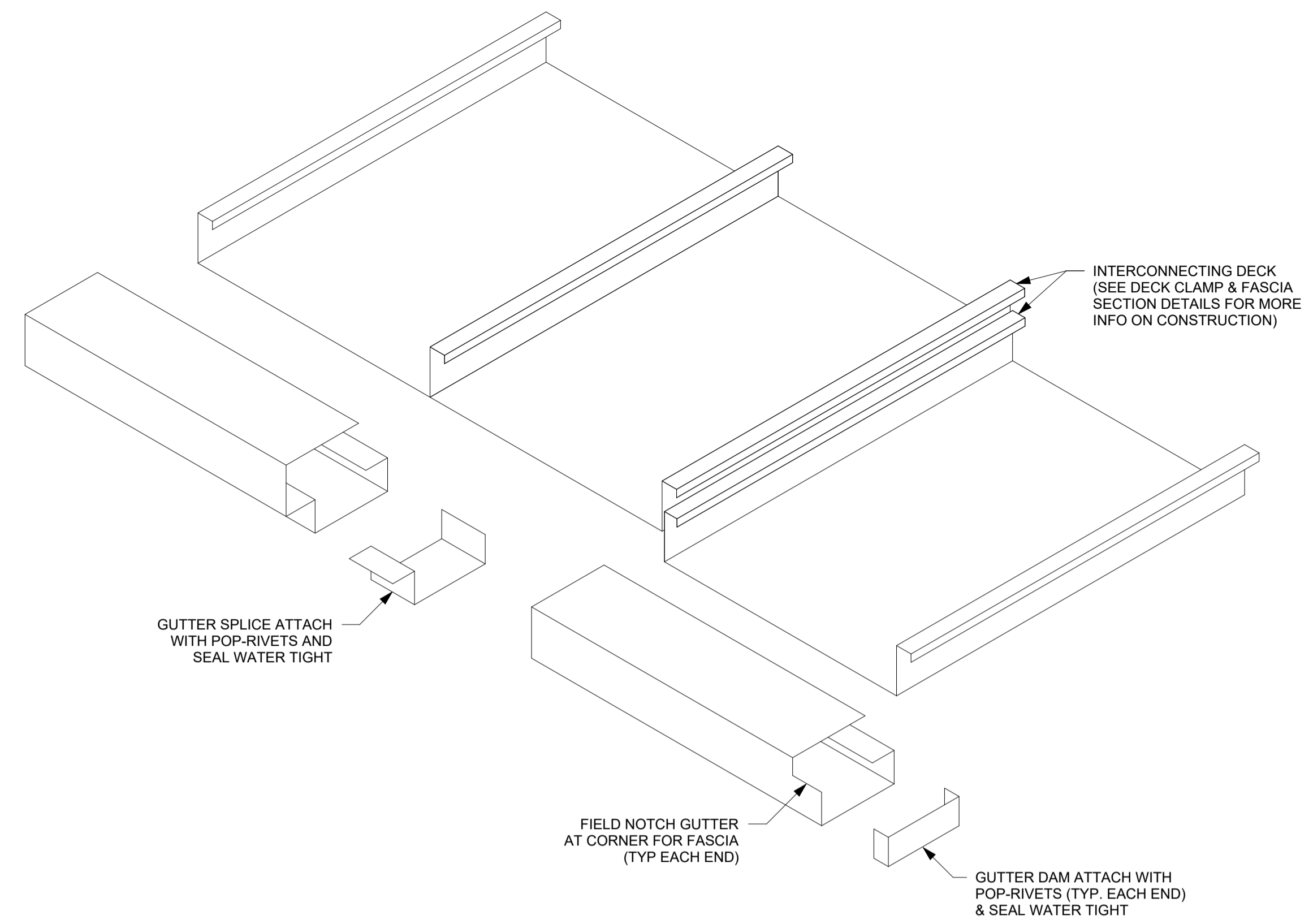
6 FASCIA SECTION AT ENTRANCE / EXIT
3" = 1'-0"



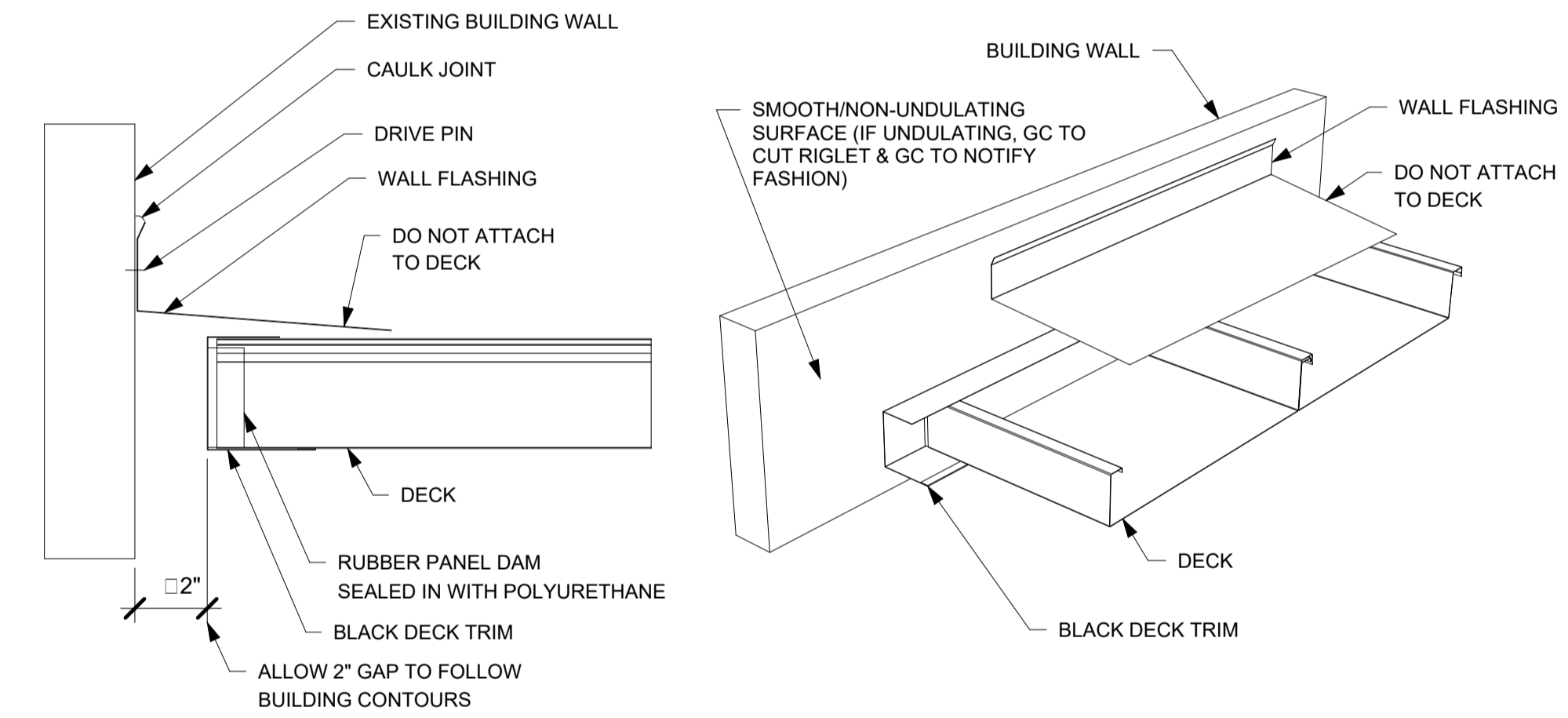
4 FASCIA SECTION OPPOSITE GUTTER
3" = 1'-0"



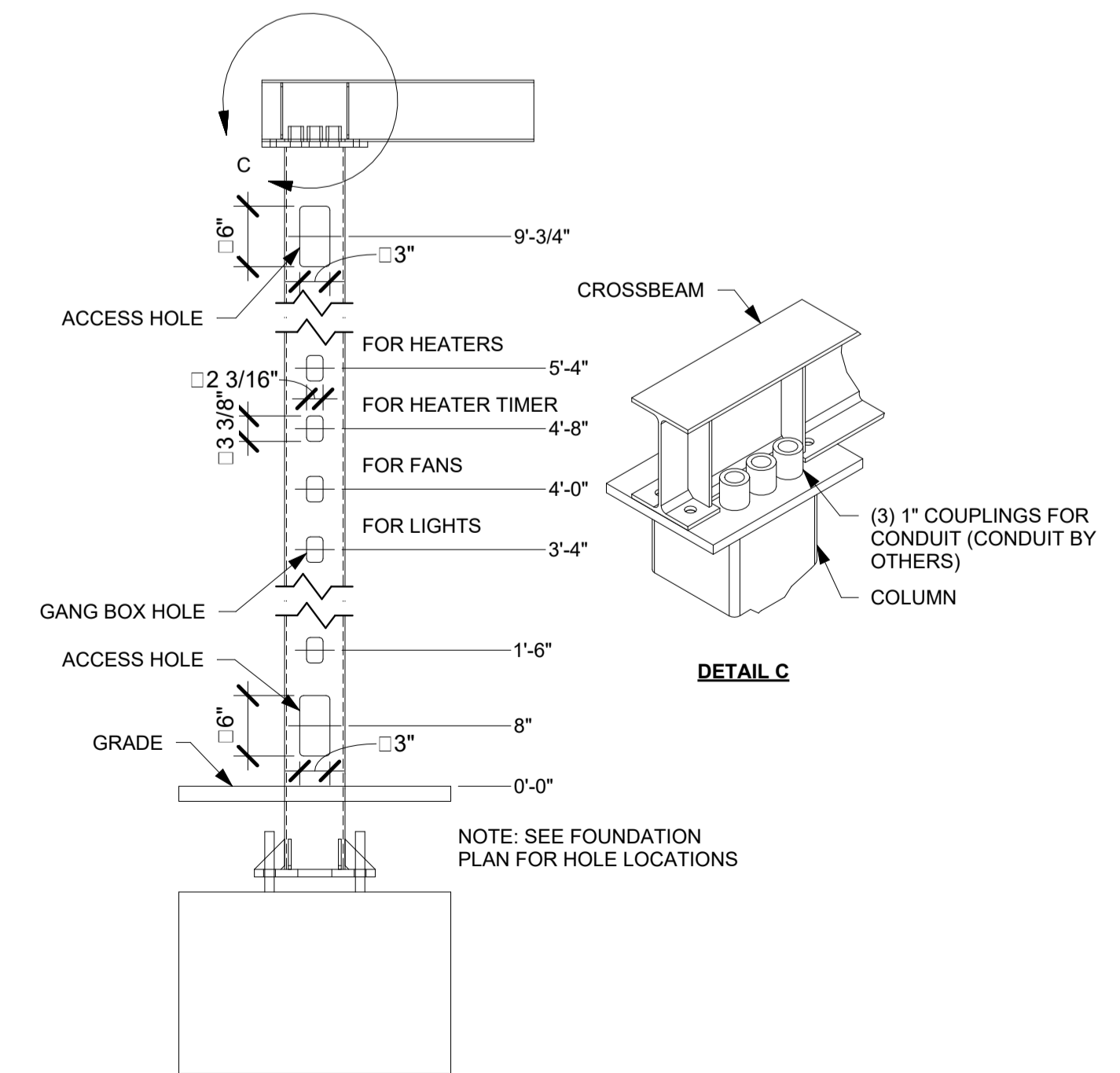
2 FASCIA SECTION W/ INTERNAL DRAIN
BELOW GRADE
3" = 1'-0"



3 DECK DRAIN CONSTRUCTION DETAIL
1" = 1'-0"



1 BUILDING FLASHING DETAIL
1" = 1'-0"



5 ELECTRICAL COLUMN DETAIL
1" = 1'-0"



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JOB NUMBER: 623481

SHEET TITLE: FASCIA SECTIONS

SHEET NUMBER: MD5

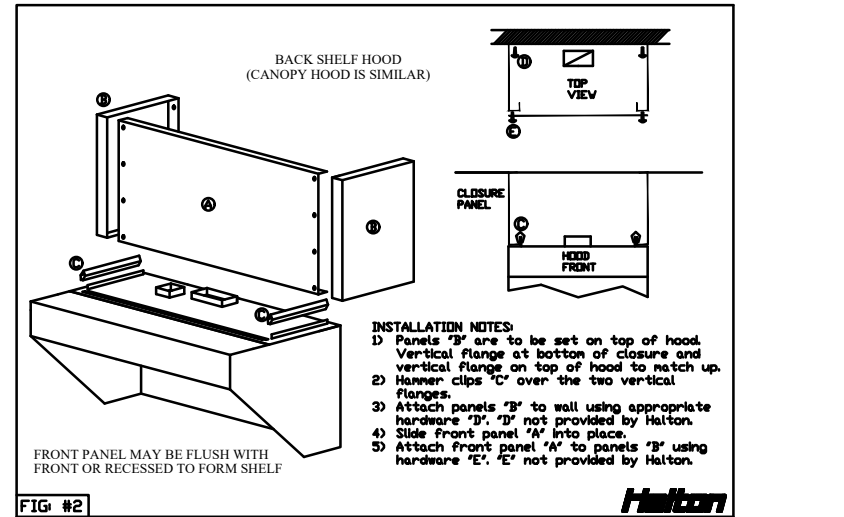
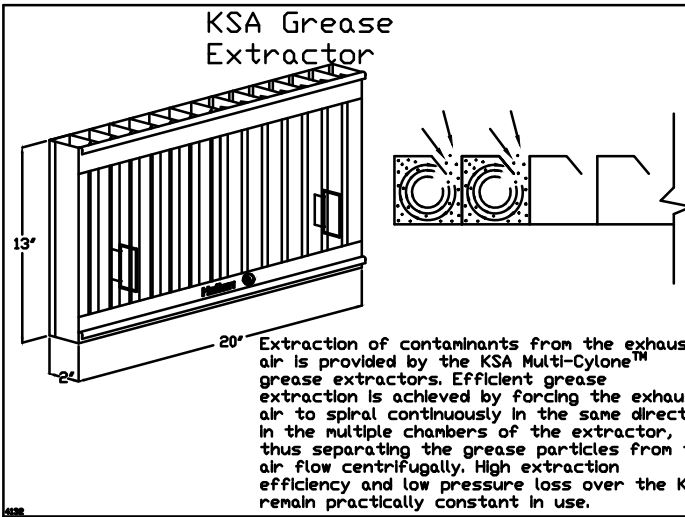
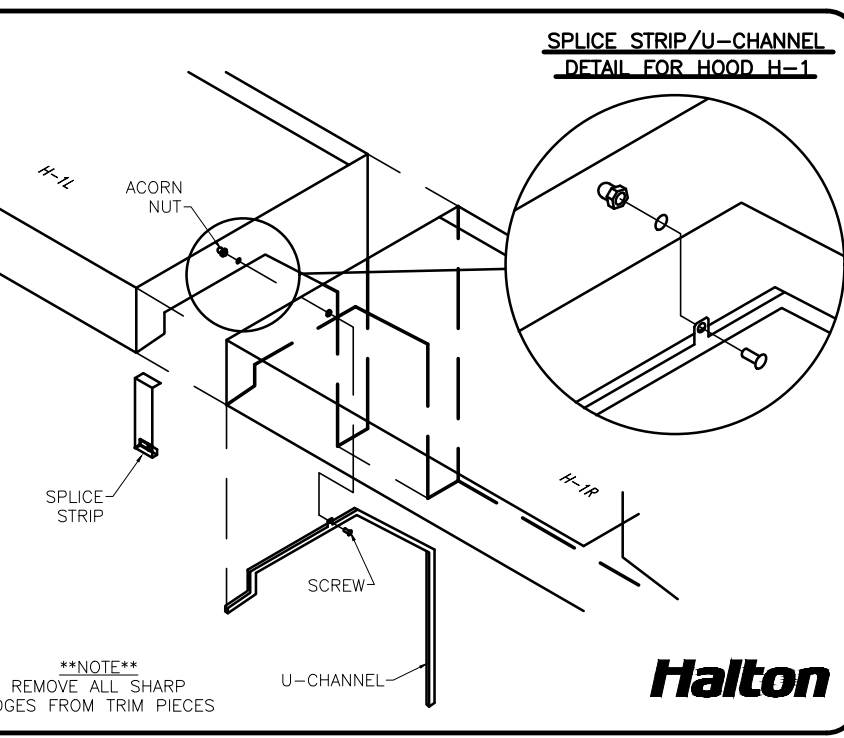
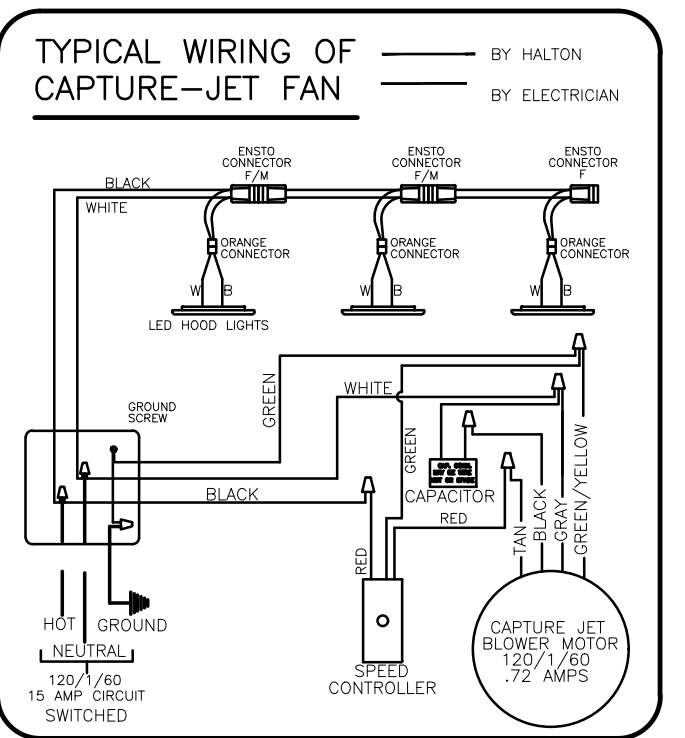
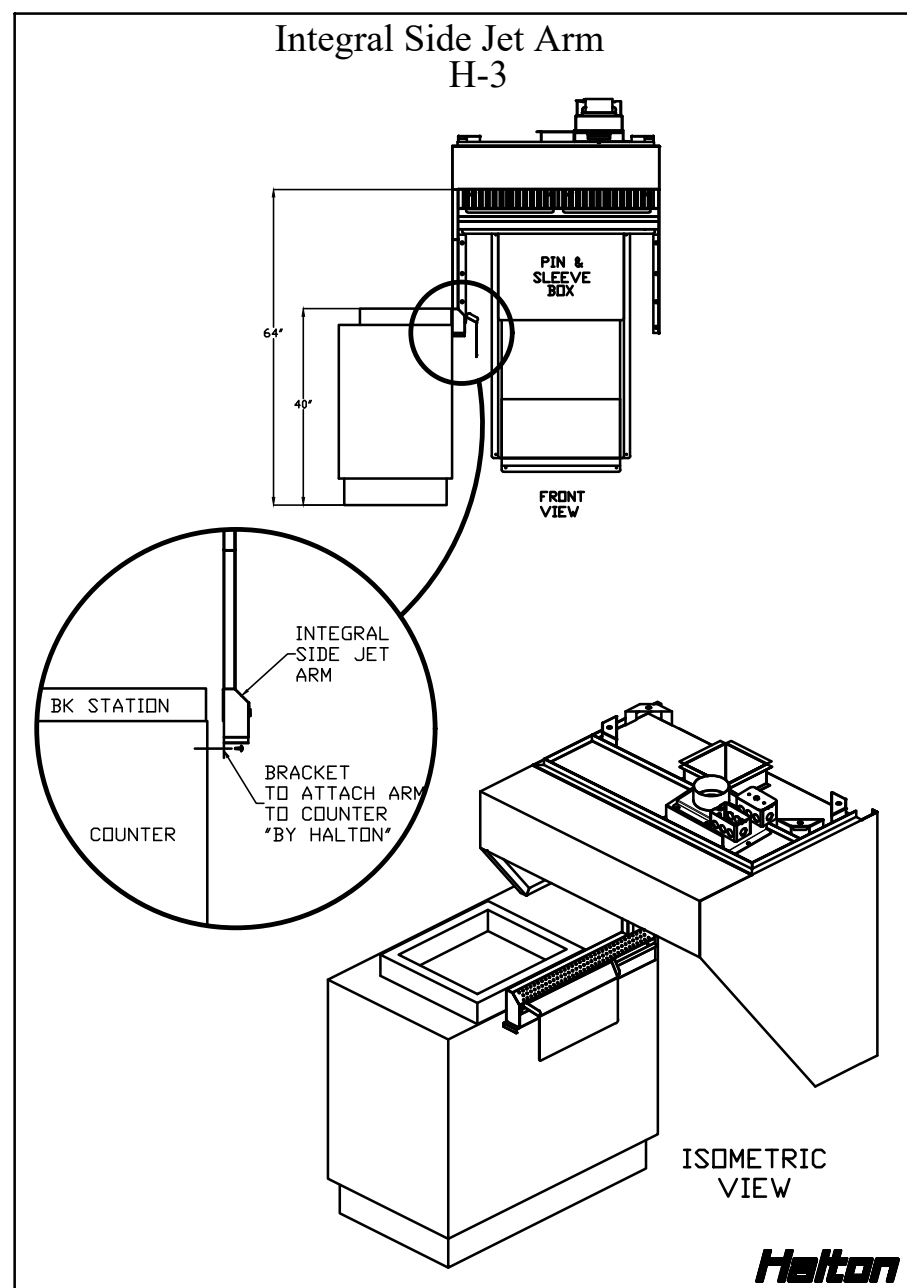
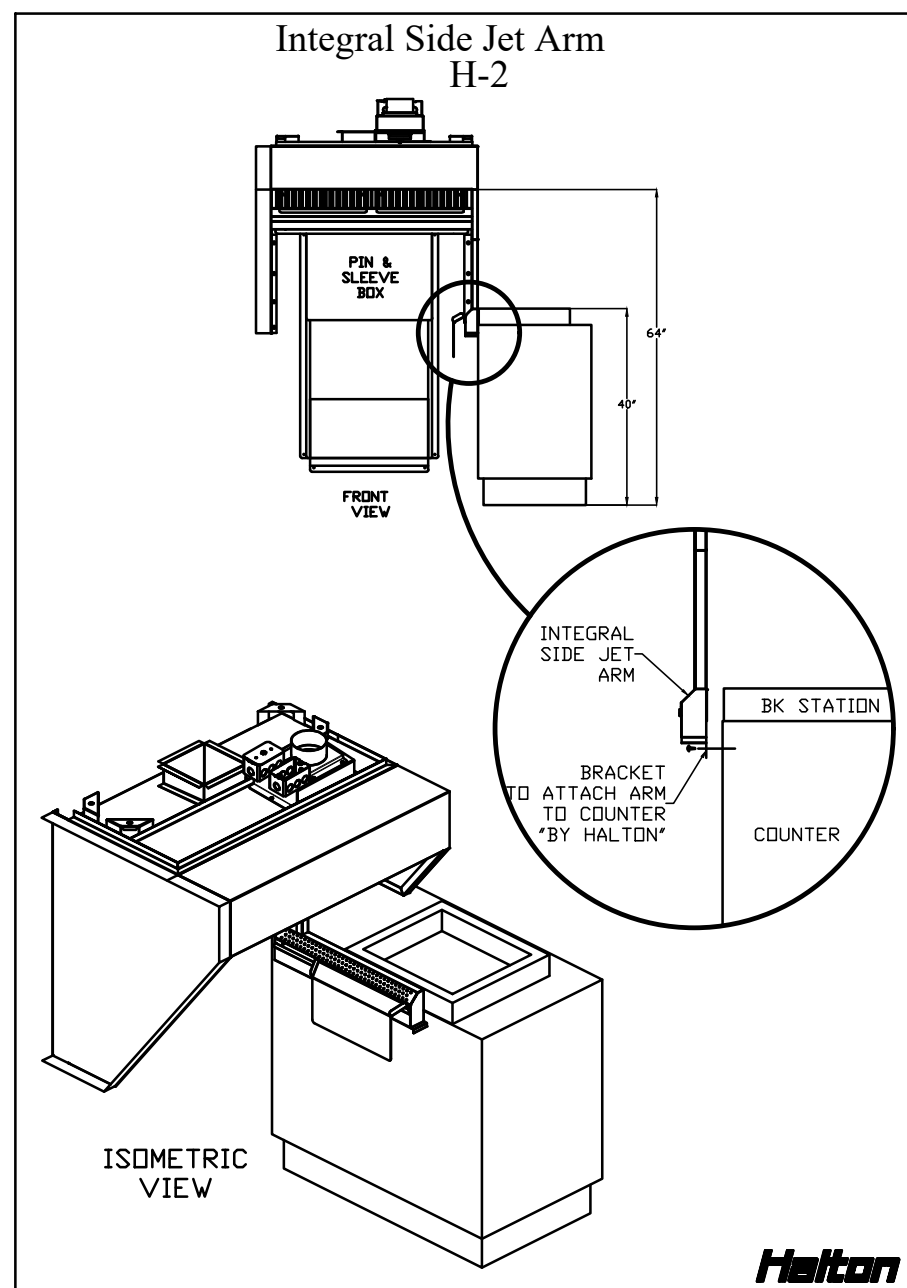
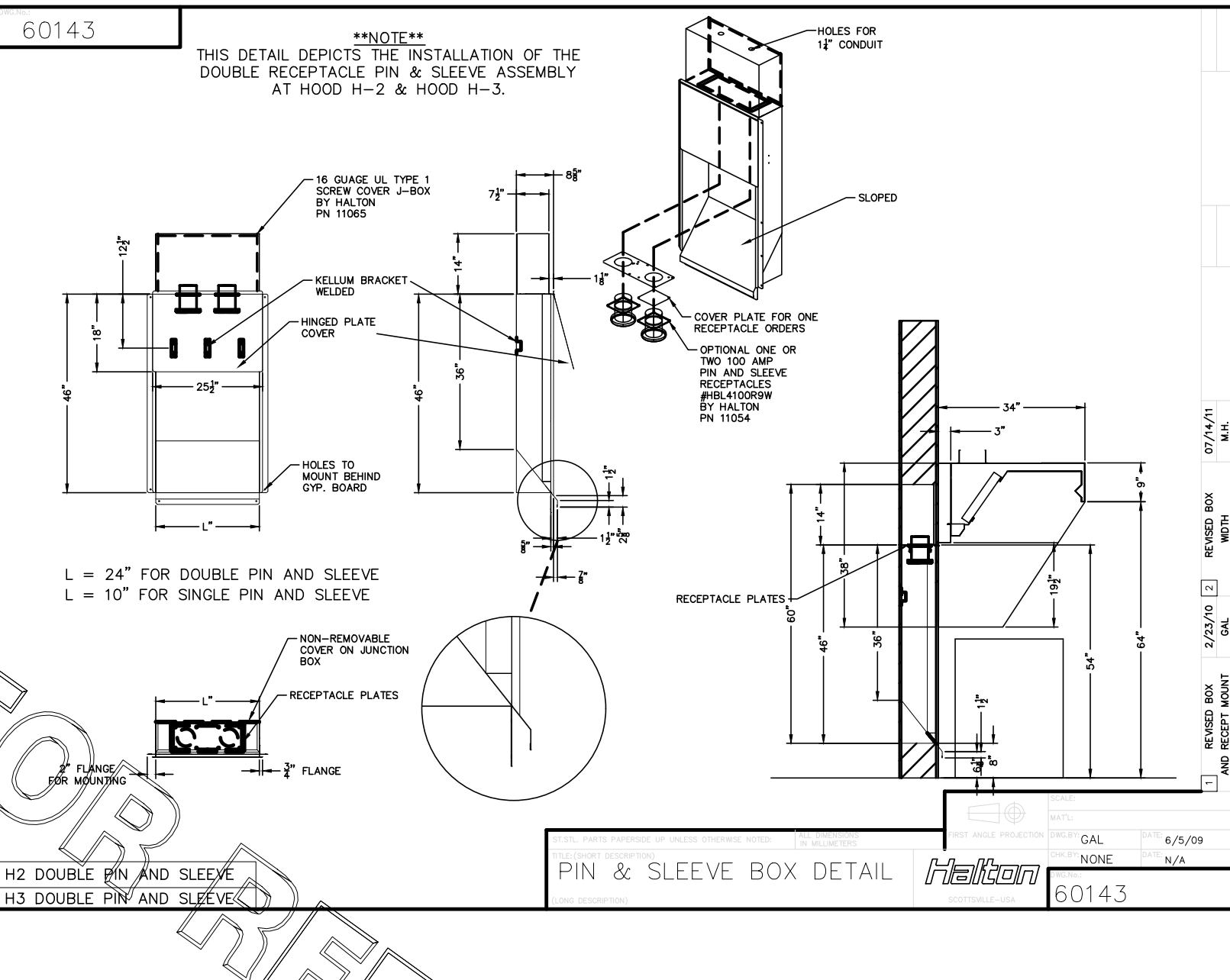
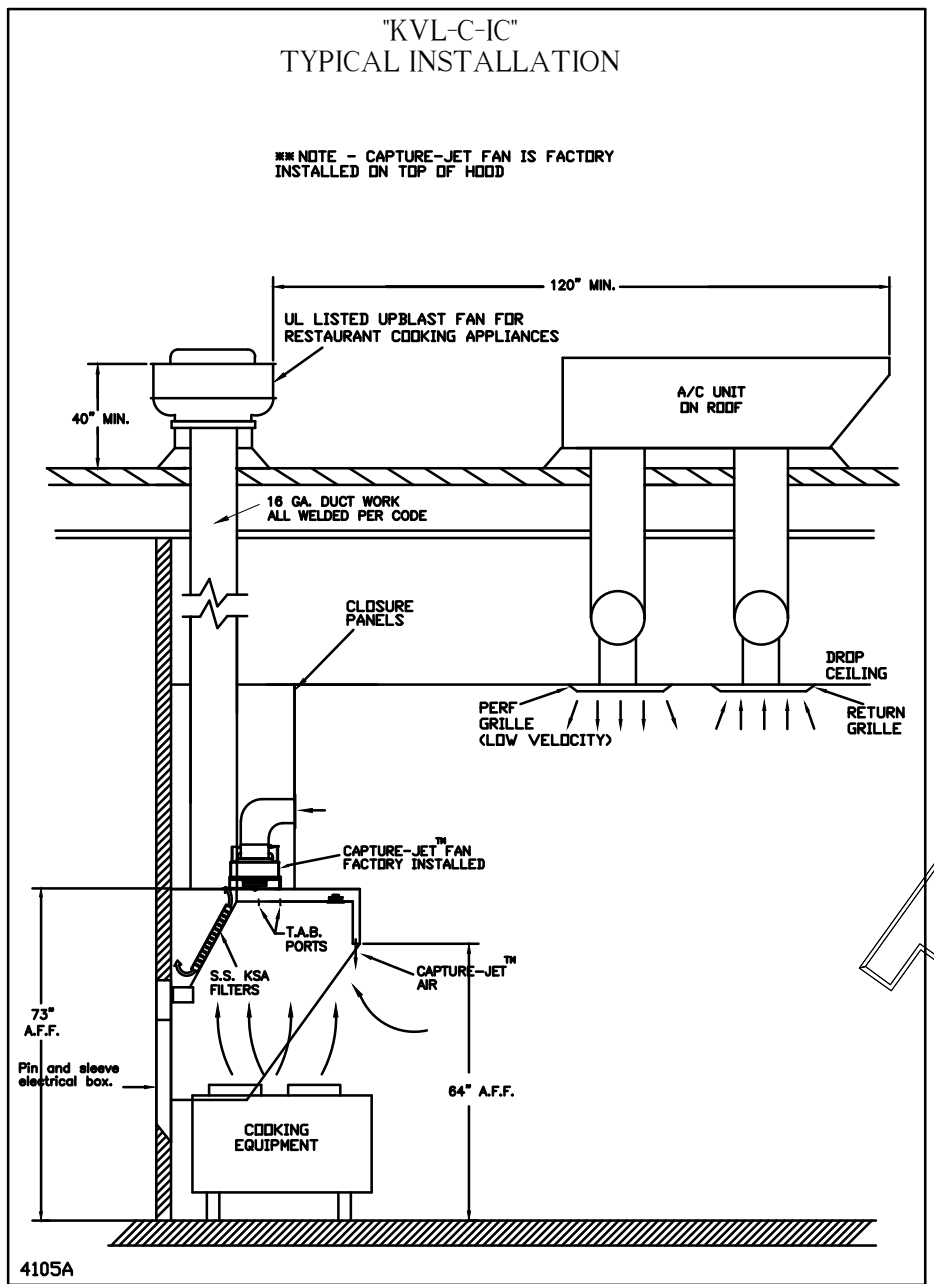
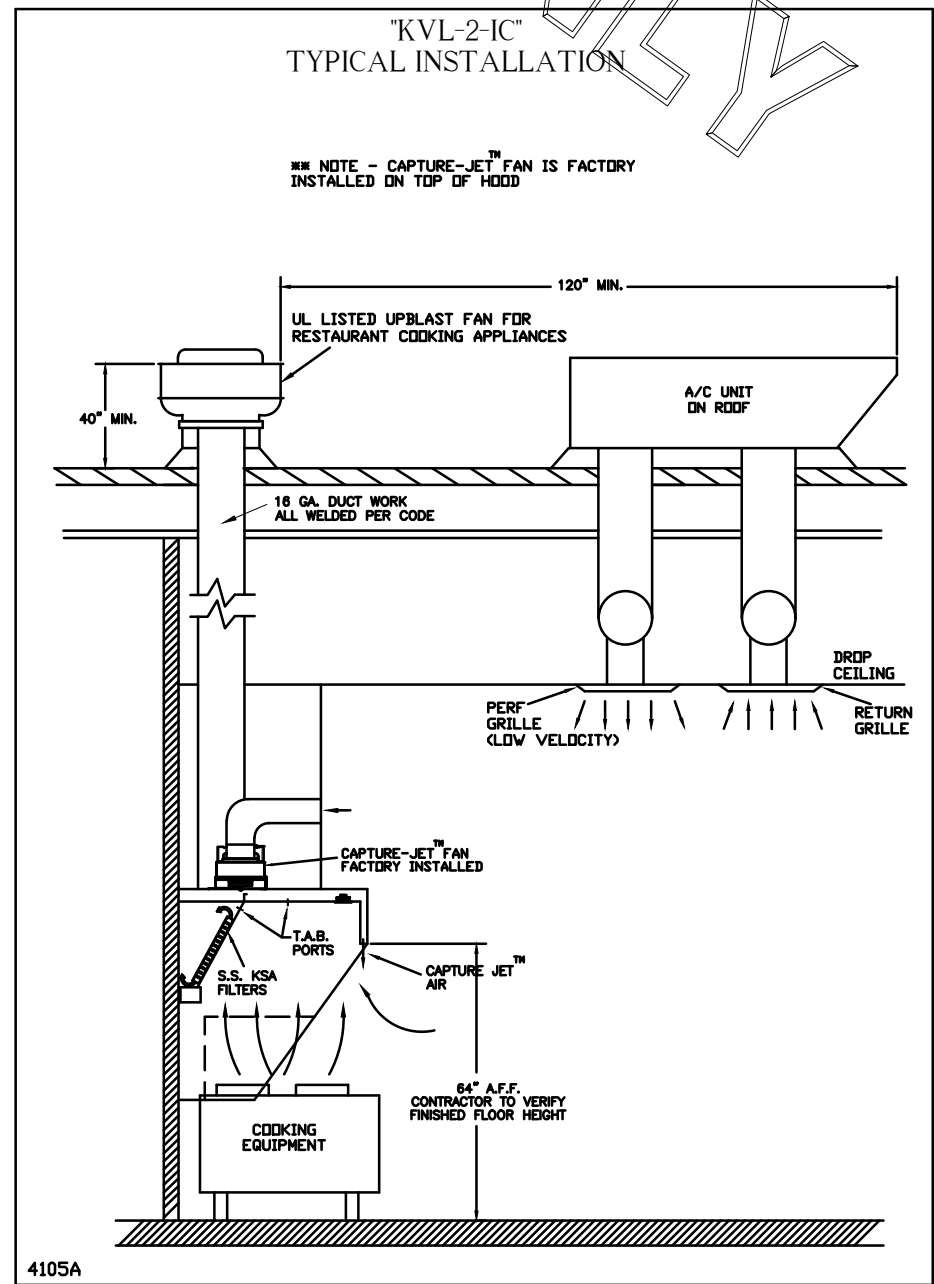
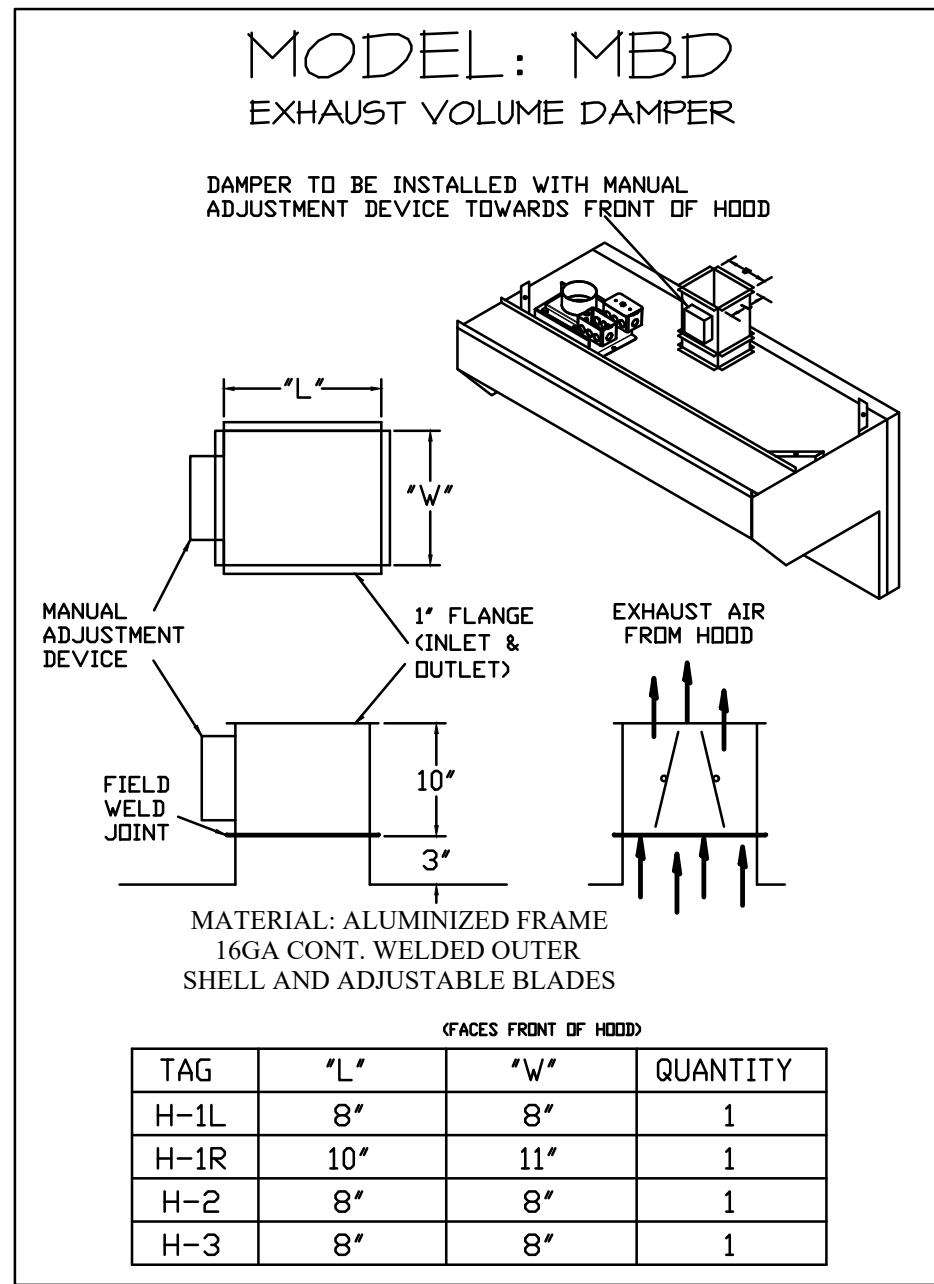
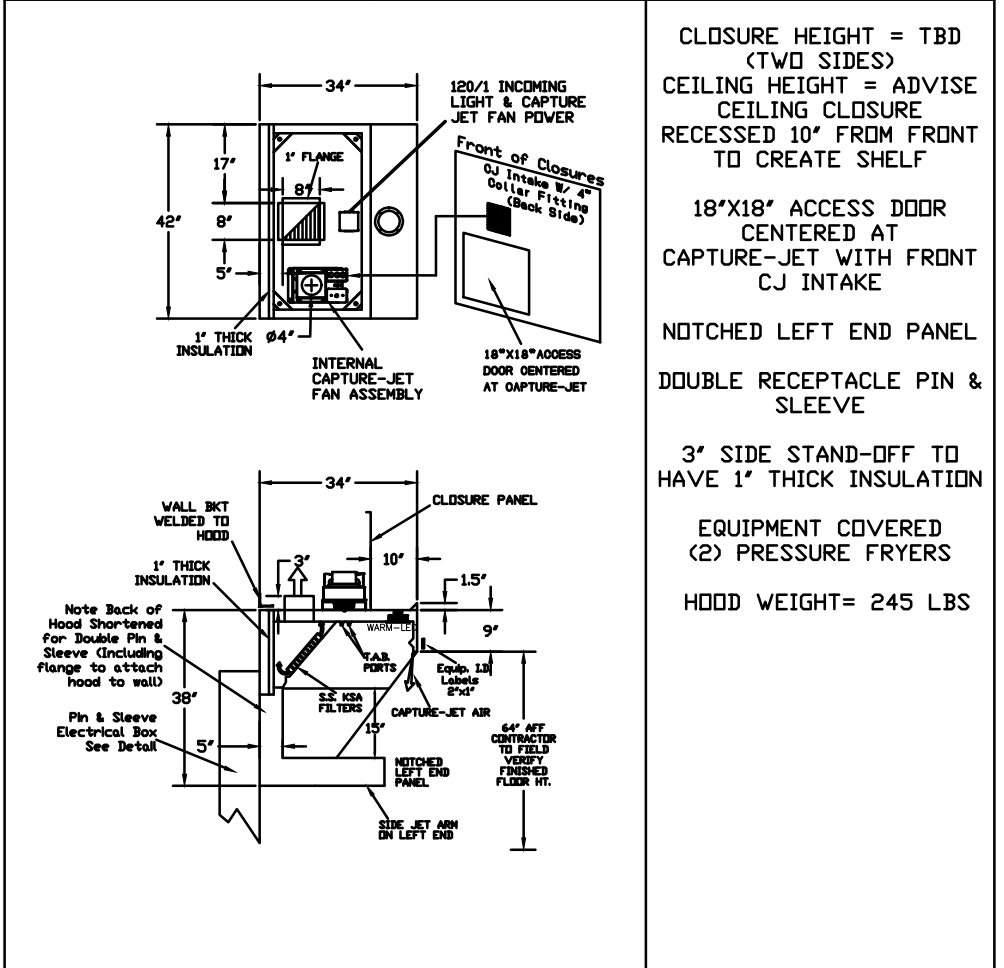
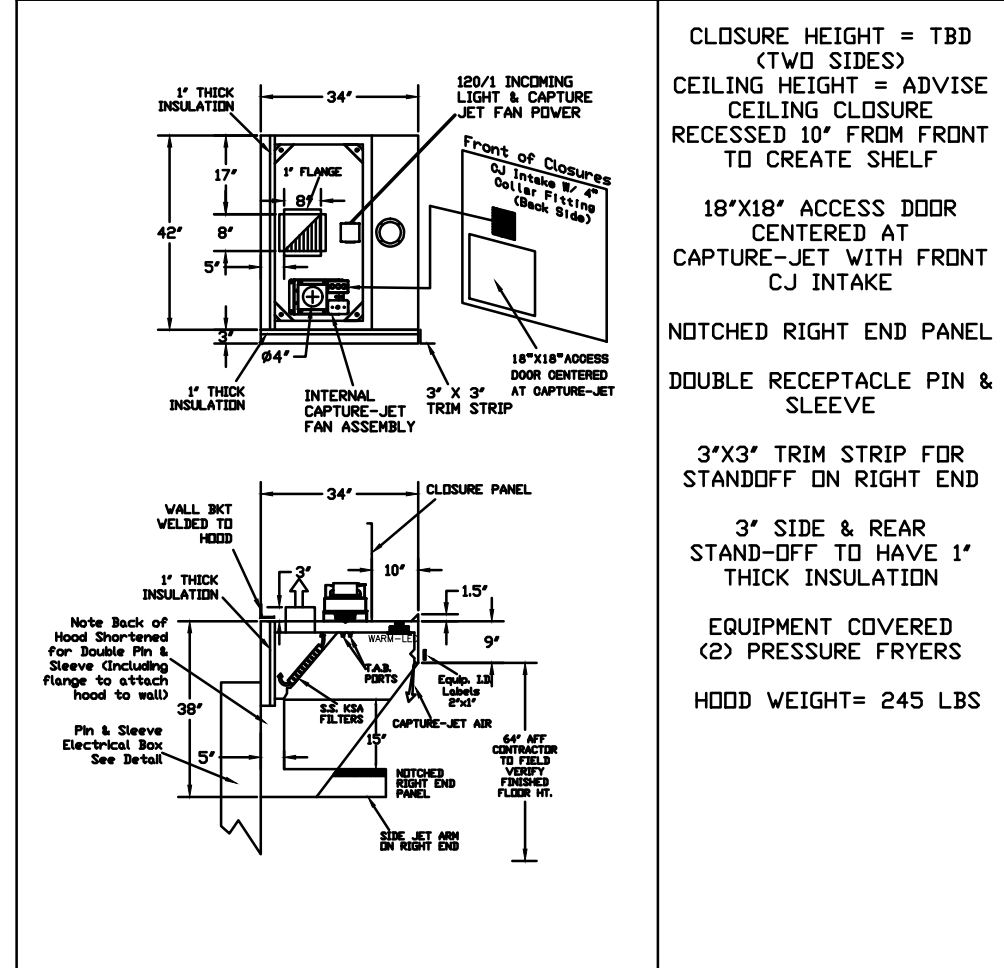
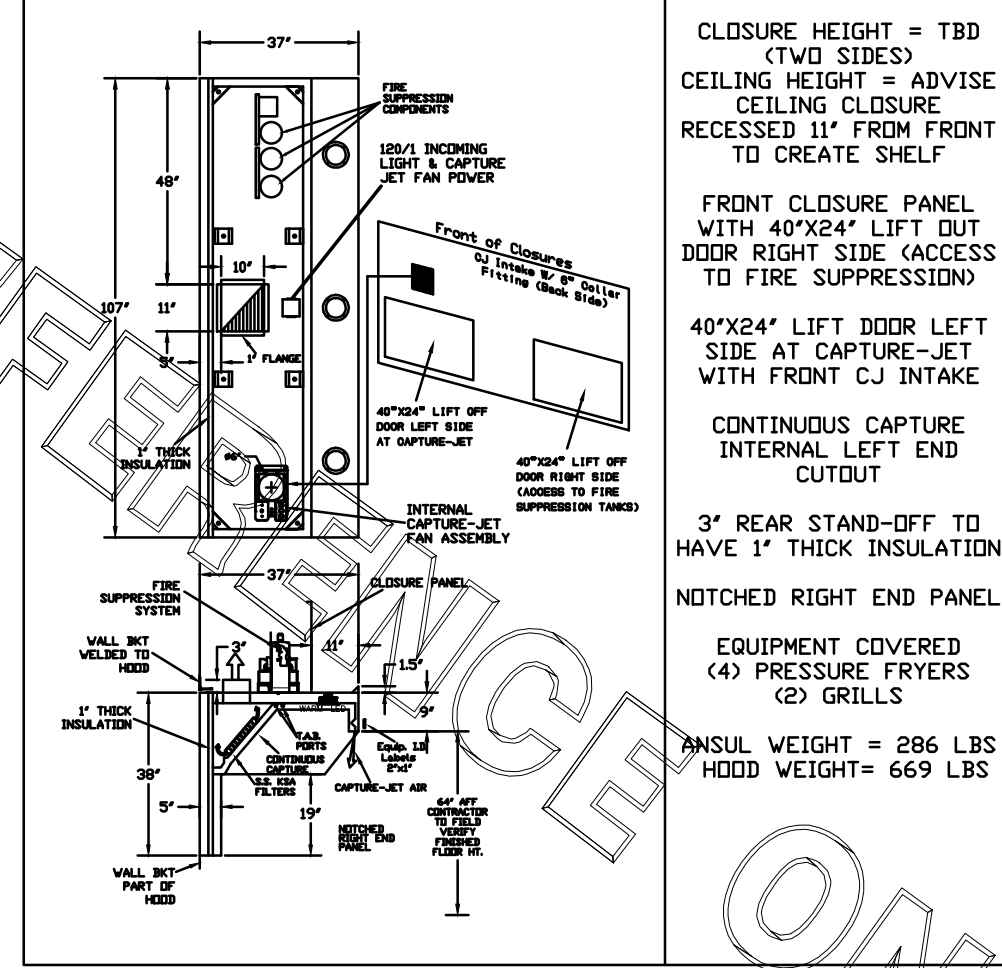
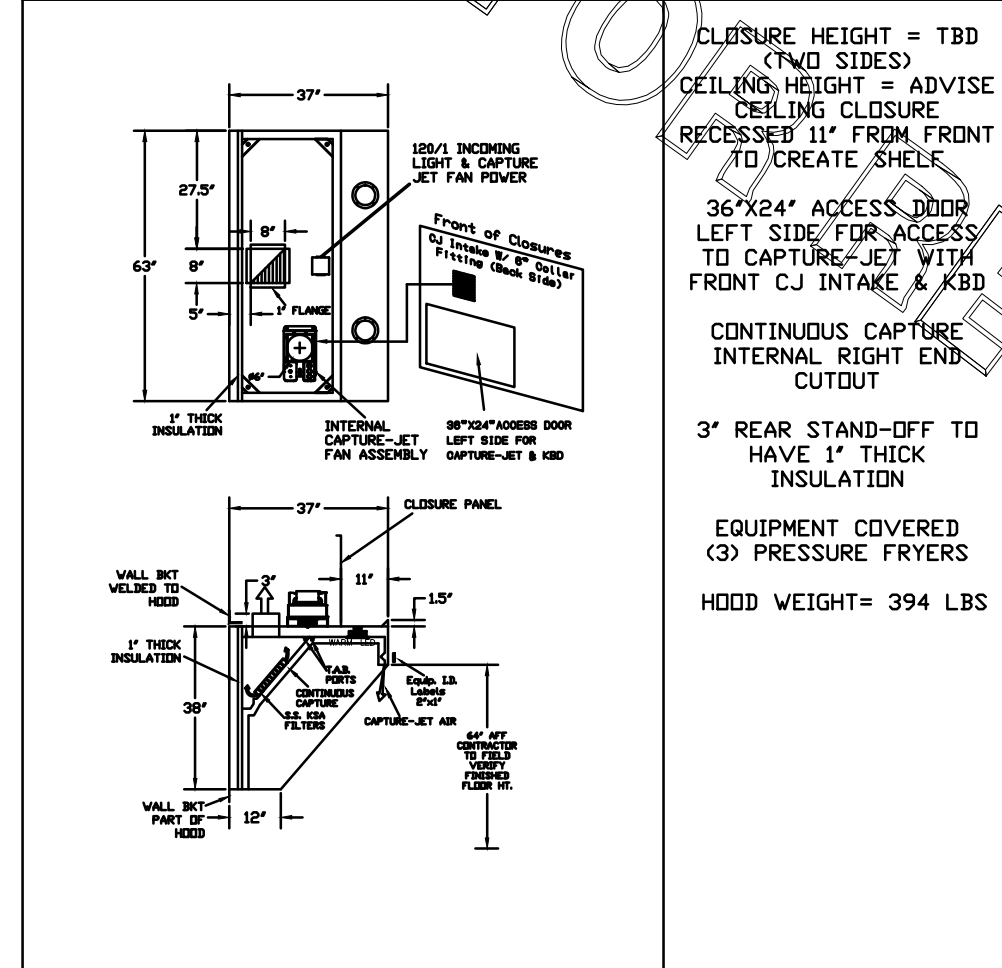
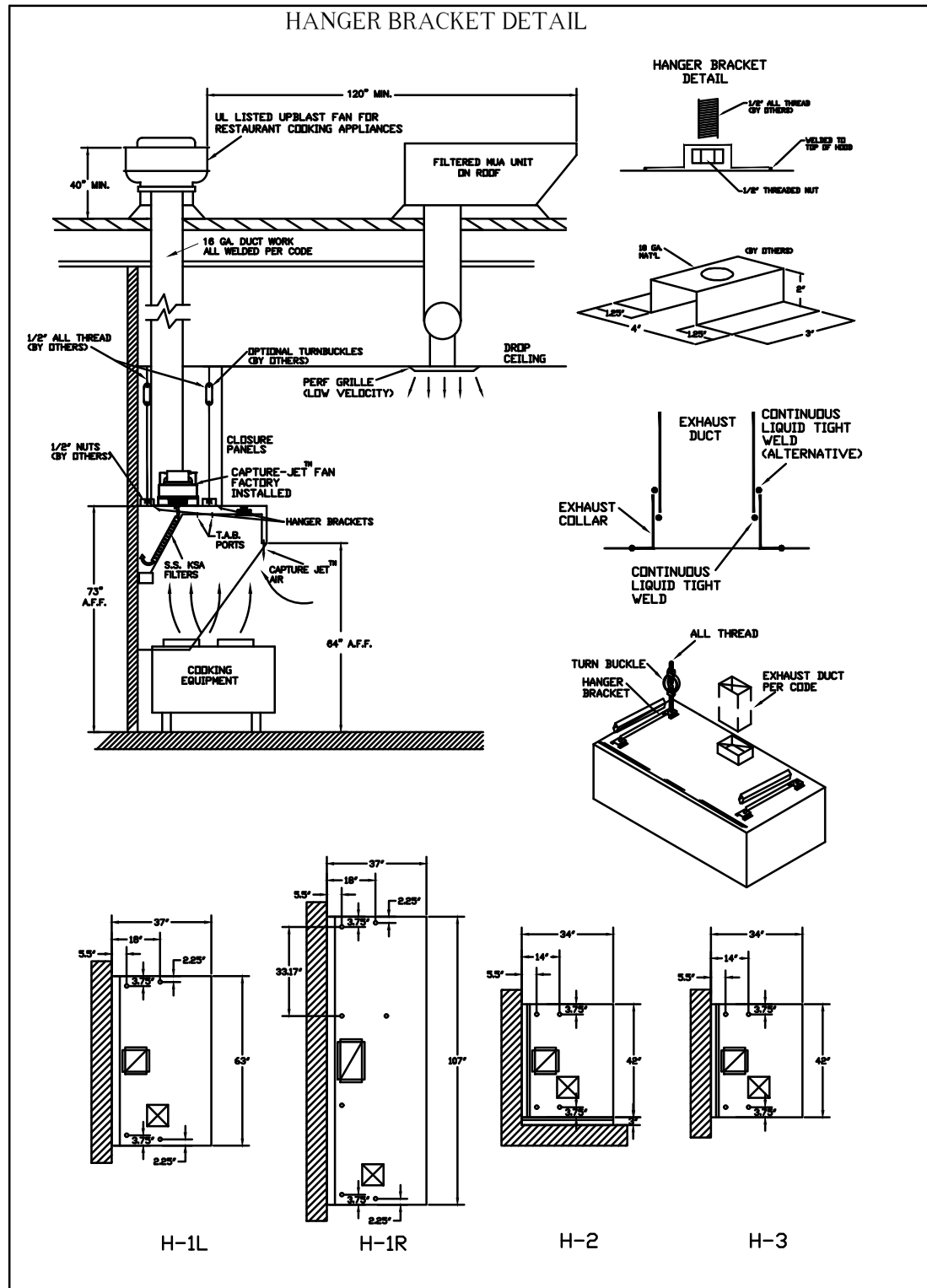
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DATE		DWG. NO.		ITEM NO.		PROJECT		LOCATION	
07.26.23		U23-682-01		H-1L		CHICK-FIL-A		READING, PA	
SUBMITTED BY HALTON CO.		FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AT THE TIME OF ORDER.							
EXHAUST AIR INFORMATION		CAPTURE AIR INFORMATION		K FACTOR EQUATION:					
CFM	TAB	SP	CFM	SP	CFM = K FACTOR × IDP				
709	0.37	0.23	47	0.30	K FACTOR = 1959				
STANDARD FEATURES					OPTIONS				
S.S. FILTERS (KSA)					REMOTE SWITCH PANEL				
1/2 S.S. FILTERS (KSA)					FIRE PROTECTION				
CAPTURE-JET					ETL LISTED W/D EXHAUST DAMPER				
STAND-OFF					CEILING CLOSURE				
L.E.D. LIGHTS					STD. BACKSPASH				
INSULATED BACKSPASH					KBD DAMPER				
ALL 18 GA. S.S.									

DATE		DWG. NO.		ITEM NO.		PROJECT		LOCATION	
07.26.23		U23-682-01		H-1R		CHICK-FIL-A		READING, PA	
SUBMITTED BY HALTON CO.		FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AT THE TIME OF ORDER.							
EXHAUST AIR INFORMATION		CAPTURE AIR INFORMATION		K FACTOR EQUATION:					
CFM	TAB	SP	CFM	SP	CFM = K FACTOR × IDP				
709	0.37	0.23	47	0.30	K FACTOR = 3265				
STANDARD FEATURES					OPTIONS				
S.S. FILTERS (KSA)					REMOTE SWITCH PANEL				
1/2 S.S. FILTERS (KSA)					FIRE PROTECTION				
CAPTURE-JET					ETL LISTED W/D EXHAUST DAMPER				
STAND-OFF					CEILING CLOSURE				
L.E.D. LIGHTS					STD. BACKSPASH				
INSULATED BACKSPASH					KBD DAMPER				
ALL 18 GA. S.S.									

DATE		DWG. NO.		ITEM NO.		PROJECT		LOCATION	
07.26.23		U23-682-01		H-2		CHICK-FIL-A		READING, PA	
SUBMITTED BY HALTON CO.		FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AT THE TIME OF ORDER.							
EXHAUST AIR INFORMATION		CAPTURE AIR INFORMATION		K FACTOR EQUATION:					
CFM	TAB	SP	CFM	SP	CFM = K FACTOR × IDP				
701	0.30	0.39	30	0.29	K FACTOR = 1291				
STANDARD FEATURES					OPTIONS				
S.S. FILTERS (KSA)					REMOTE SWITCH PANEL				
1/2 S.S. FILTERS (KSA)					FIRE PROTECTION				
CAPTURE-JET					ETL LISTED W/D EXHAUST DAMPER				
STAND-OFF					CEILING CLOSURE				
L.E.D. LIGHTS					STD. BACKSPASH				
INSULATED BACKSPASH					KBD DAMPER				
ALL 18 GA. S.S.									

DATE		DWG. NO.		ITEM NO.		PROJECT		LOCATION	
07.26.23		U23-682-01		H-3		CHICK-FIL-A		READING, PA	
SUBMITTED BY HALTON CO.		FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AT THE TIME OF ORDER.							
EXHAUST AIR INFORMATION		CAPTURE AIR INFORMATION		K FACTOR EQUATION:					
CFM	TAB	SP	CFM	SP	CFM = K FACTOR × IDP				
701	0.30	0.39	30	0.29	K FACTOR = 1291				
STANDARD FEATURES					OPTIONS				
S.S. FILTERS (KSA)					REMOTE SWITCH PANEL				
1/2 S.S. FILTERS (KSA)					FIRE PROTECTION				
CAPTURE-JET					ETL LISTED W/D EXHAUST DAMPER				
STAND-OFF					CEILING CLOSURE				
L.E.D. LIGHTS					STD. BACKSPASH				
INSULATED BACKSPASH					KBD DAMPER				
ALL 18 GA. S.S.									



HALTON HOODS
 - ETL LISTED PER LATEST 710 STANDARD
 - BUILT PER NFPA 96
 - NSF LISTED

CONFORMS TO UL STD UL STD 710 ULC STD 5646
 INTERTEK 301225

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSDALE, KY 42164

MODEL NO. SERIAL NO. ITEM NO.
 KVL-2-IC

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOODS FOR COMMERCIAL AND INSTITUTIONAL KITCHENS
 THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ.
 THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ.
 THE HOOD HAS BEEN CERTIFIED BY ETL FOR A 6" BUSH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96.
 THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.
 THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

DUTY LEVEL	MINIMUM OVERHANG	DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE IN		MIN. EXHAUST HOOD LENGTH
		MIN	MAX	
MEDIUM	6"	0"	20"	20"
MEDIUM	6"	0"	20"	20"
MEDIUM	6"	0"	20"	20"
HEAVY	0"	0"	20"	20"
HEAVY	0"	0"	20"	20"

NET SUPPLY AIR FLOW SHALL ONLY BE SET AT 626 IN HOOD

WEBSITE: www.halton.com

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSDALE, KY 42164
 1-270-237-5600

HALTON CO. (CANADA)
 1021 BREVIK PLACE
 MISSISSAUGA, ON L4W 3R7
 1-905-624-0301

DATE: 07/26/23

PROJECT: CHICK-FIL-A #2348 EXETER

LOCATION: READING, PA

DRAWN BY: SKK

SCALE: NOT TO SCALE

DATE: 07/26/23

REVISION DESCRIPTION

DATE

APPROVED BY: [Signature]

APPROVED FOR FABRICATION: [Signature]

WITH CHANGES AS NOTED

NO CHANGES

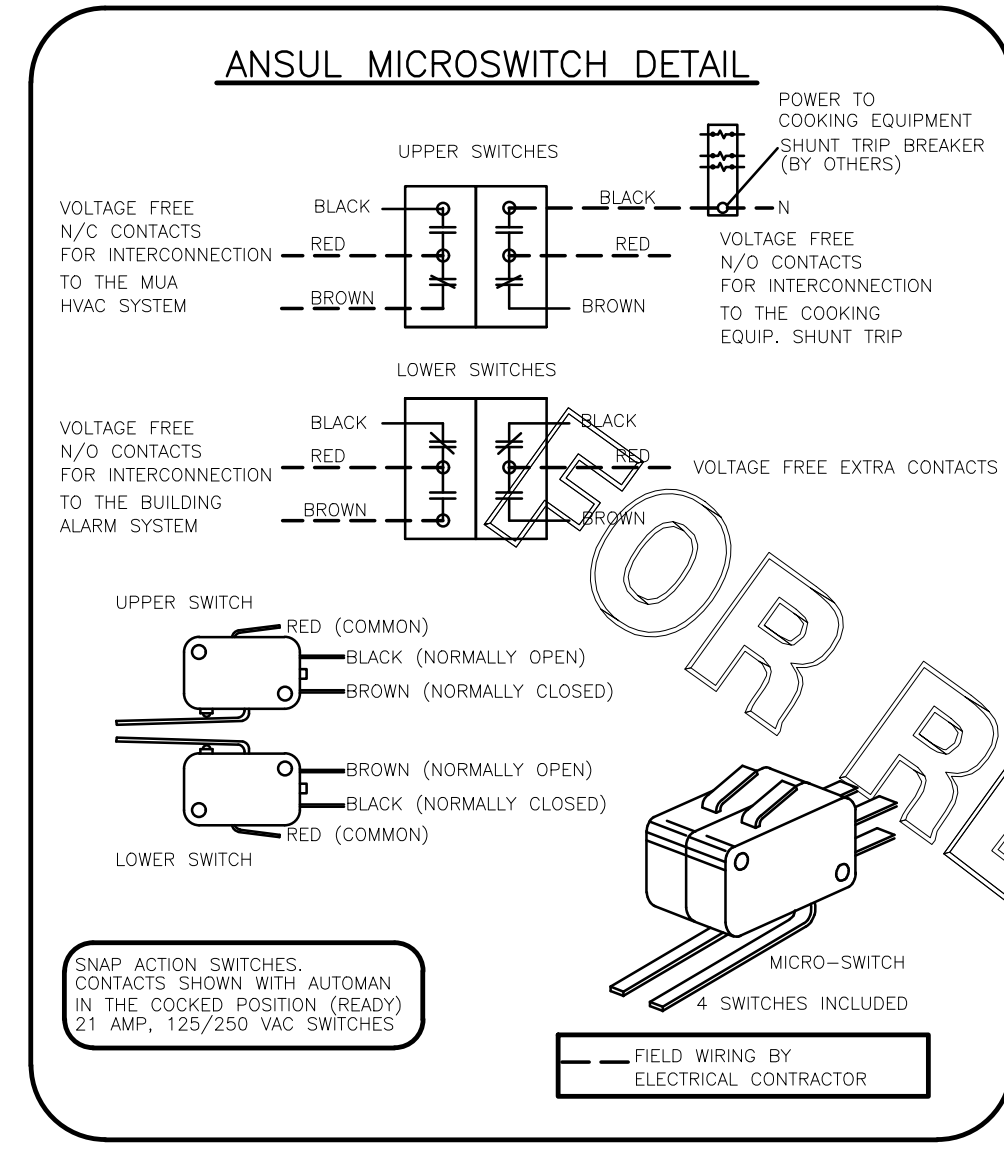
REVISION AND RESUBMIT

NOTE TO APPROVER: ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES. THE LOCATION AND TYPE OF COOKING EQUIPMENT. POSITIONING OF COOKING EQUIPMENT SUCH AS WASH BASIN, MUST BE NOTED. POSITIONING OF EQUIPMENT MUST BE NOTED. A RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED.

PLEASE VERIFY THE FOLLOWING:
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.

DRAWING No.: U23-682-01
 SHEET NO.: MH1.1



ANSUL

FIRE EXTINGUISHER

ANSUL

13051 5 LBS ABC MODEL AA05 QTY _____

13052 10 LBS ABC MODEL AA10S QTY _____

13053 6 LTR CLASS K-GUARD K01-3 QTY _____

SUPPLIED BY HALTON

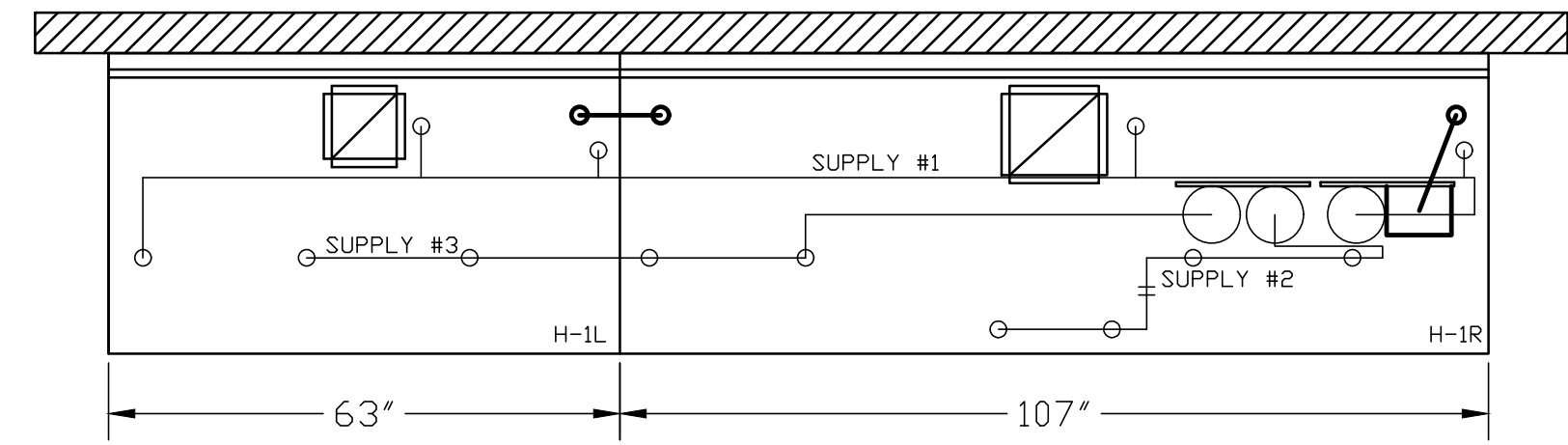
****SHOP NOTE****
 PROVIDE A QUANTITY OF TWO REMOTE PULL STATIONS FOR FIRE SYSTEM FOR HOODS H-2 & H-3.
 ONE PULL STATION REQUIRED FOR HOOD H-1L/R.
 PROVIDE A TOTAL OF THREE PULL STATIONS!!

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450*
2 BURNER / FLAT TOP	450*
PRESSURE FRYERS	450*
GRILL	450*
EXHAUST COLLARS	450*

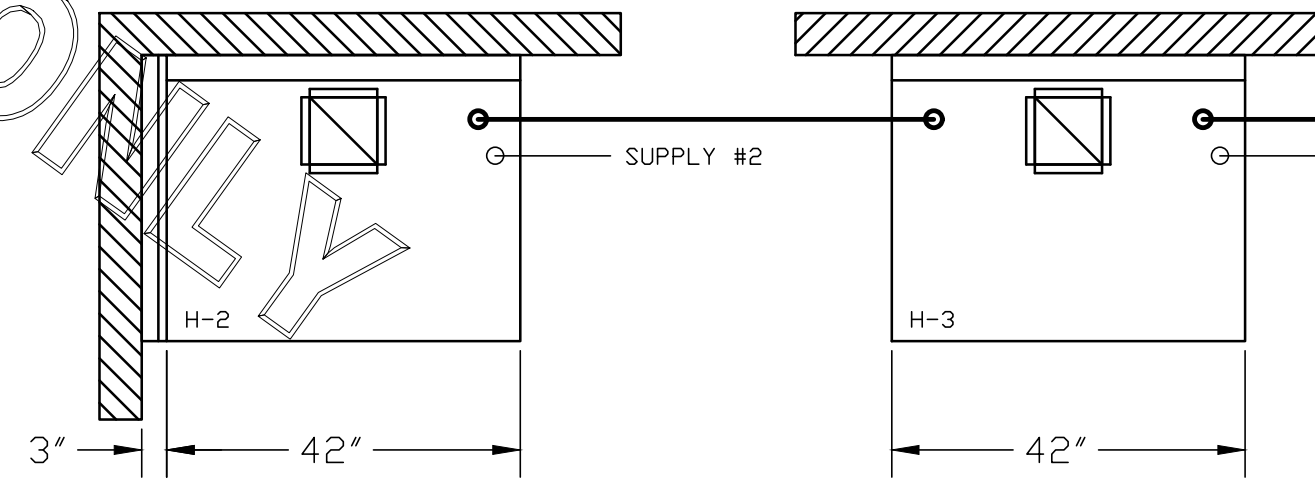
ANSUL R-102 FIRE SYSTEM NOTES
 THREE TANK SYSTEM MOUNTED ON TOP OF (H-1R)
 MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
 TWO TANK SYSTEM REMOTE MOUNTED
 MAXIMUM FLOW POINTS = 22



ANSUL R-102 FIRE SYSTEM
 A) 9 GALLON SYSTEM (3 TANKS)
 (MOUNTED ON HOOD H-1R)
 (FOR HOODS H-1L & H-1R)
 B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

(1) DEM REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN DEM REG. REL.)
 (3) 3 GALLON TANKS

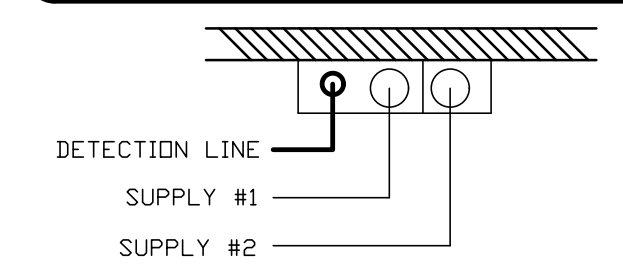


ANSUL R-102 FIRE SYSTEM
 A) 6 GALLON SYSTEM (2 TANKS)
 (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
 B) 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

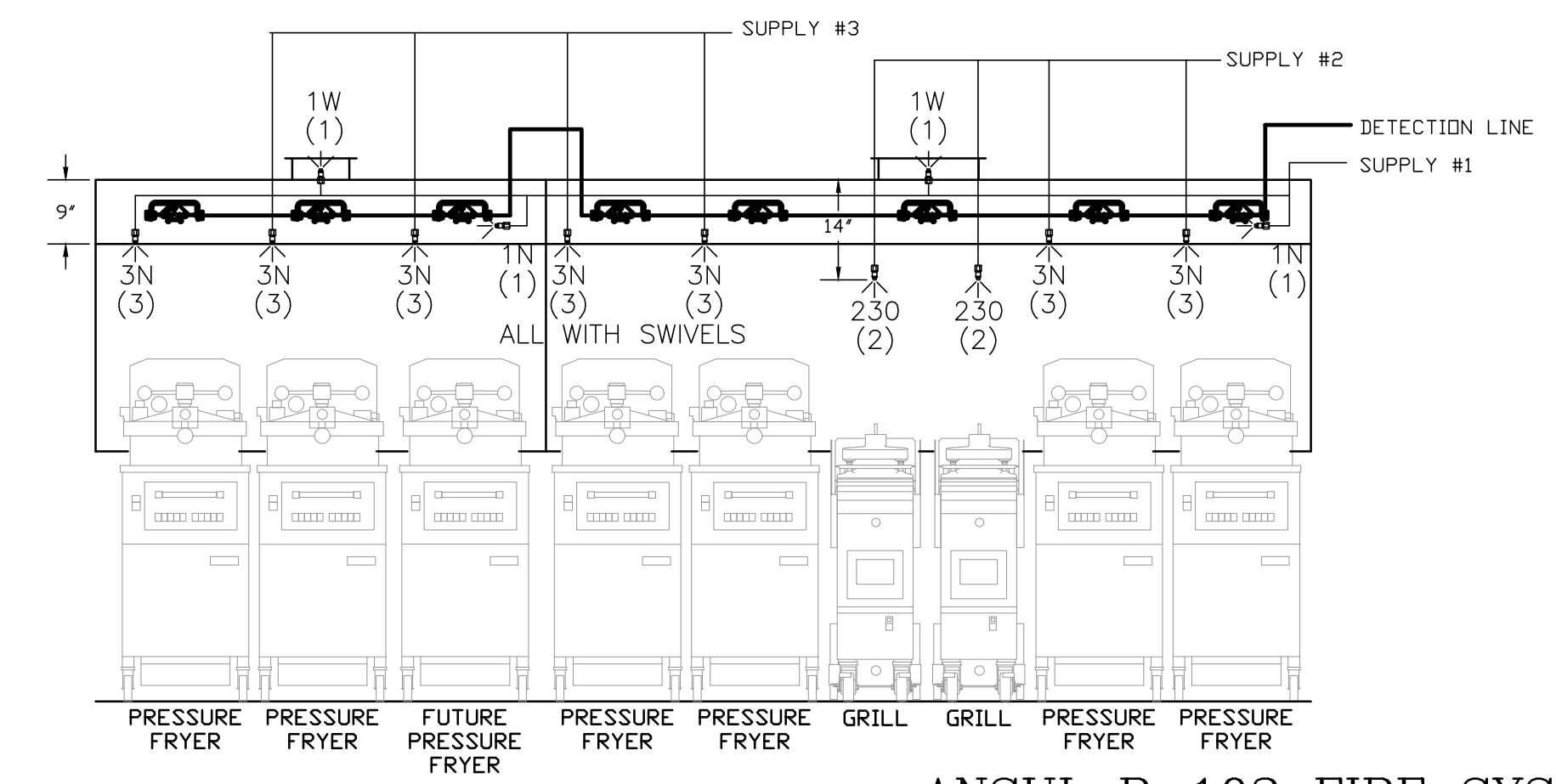
(1) REGULATED RELEASE
 (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 (3) SINGLE TANK ENCLOSURE
 (4) 3 GALLON TANKS

****PROTECTS HOODS H-2 & H-3****

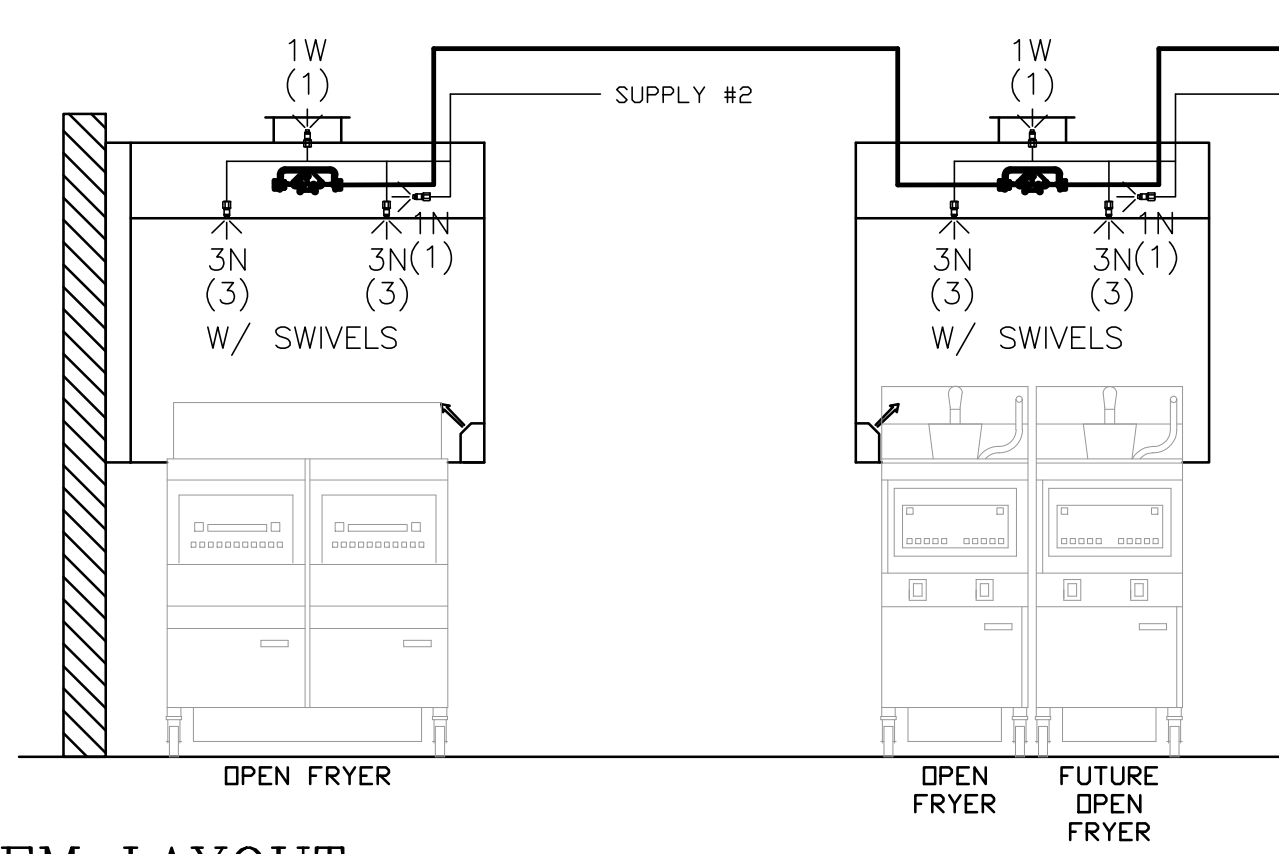
REMOTE MOUNTED:
 (1) REGULATED RELEASE (WITH ONE TANK)
 (1) SINGLE TANK ENCLOSURE (WITH ONE TANK)



ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	4	DUCT NOZZLES	4
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	11	APPLIANCE NOZZLES	33
			TOTAL FLOW POINTS	45
ITEM	QTY	DESCRIPTION		
#200	10035	8 SERIES DETECTORS W/ FUSIBLE LINKS		
#201	11973	2 TERMINAL DETECTORS W/ FUSIBLE LINKS		
#202	10046	1 DEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH		
#202	10033	1 REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH		
#203	10333	5 3 GALLON TANKS		
#204	10044	1 SINGLE TANK ENCLOSURE		
#205	10040	3 REMOTE PULL STATION		
#207	10065	4 DOUBLE TANK NITROGEN CARTRIDGE		
#208	11128	5 3 GALLON ANSULEX CONTAINER		



ANSUL R-102 FIRE SYSTEM LAYOUT



ANSUL R-102 FIRE SYSTEM
 UL LISTED PER STD LATEST STD 300

- FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
- ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: THIS EQUIPMENT, SUCH AS INCREASED BURNER INPUTS OR EQUIPMENT POSITION, MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED BY _____ DATE _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REVISION	DATE	DESCRIPTION

WEBSITE: www.halton.com

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSDALE, KY 42164
 1-270-237-5600

HALTON CO. (CANADA)
 1021 BREVIK PLACE
 MISSISSAUGA, ON L4W 3R7
 1-905-624-0301

PROJECT: CHICK-FIL-A #2348
 EXETER

LOCATION: READING, PA
 DRAWN BY: SKK
 SCALE: NOT TO SCALE

DATE: 07.26.23

DRAWING No.: U23-682-02

SHEET NO.: MH1.2

Halton