

2 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 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.
- UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

CANOPY 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 WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.

KEY NOTES

- MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
- MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR 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. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- CJ#3 MOUNTED INSIDE CABINTRY SERVING SCJ PLENUM, SEE DETAIL 2/M-301.
- SEE ELEVATIONS ON M-301 FOR C/J FAN DUCTING REQUIREMENTS.
- 10X10 EXHAUST DUCT DOWN.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- 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.
- HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-301 FOR LOCATION.
- YOUNG REGULATOR 12" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312C2 AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT T'STAT AT 4'-0" AFF. POWER OPEN/SPRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- PROVIDE 120V/24V 50 VA TRANSFORMER TO SERVE YOUNG REGULATOR ZONE DAMPER ACTUATOR AND THERMOSTAT. POWER TRANSFORMER FROM 120V POWER CIRCUIT THAT REMAINS 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. THERE IS NO INTERLOCKING OR MONITORING BY WAY OF THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501.
- RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.

AIR BALANCE SCHEDULE				
MARK	SUPPLY...	RETURN...	OUTSIDE...	BUILDING POSITIVE...
AC#1	9500	8250	1250	1250
AC#2	5600	4050	1550	1550
AC#3	6000	4450	1550	1550
EF#1	-	-	-	-1912
EF#2	-	-	-	-1402
EF#3	-	-	-	-300
	21100	16900	4350	3212

DAMPER HANDLES SHOULD BE INSTALLED SUCH THAT THE DAMPERS ROTATION AXIS IS PERPENDICULAR TO THE FLOOR WITH THE HANDLE FULLY ACCESSIBLE UNDERNEATH THE DUCT IT CONTROLS. (TYPICAL OF ALL DAMPERS AT THE SAME PLENUM.)

YOUNG REGULATOR 16" MODEL 4075LMB24 ROUND ZONE DAMPER WITH MODEL T-720A AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT T'STAT AT 4'-0" AFF. POWER OPEN/CLOSE/MODULATING. ADJUST MECHANICAL LIMIT FOR 100 CFM MINIMUM AIRFLOW. ADJUST MAXIMUM LIMIT TO FULLY OPEN POSITION. INITIAL BALANCE TO BE DONE WITH VAV AT THE FULL OPEN POSITION. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD ϕ FLEXIBLE ϕ DIFFUSER		RETURN/EXHAUST (TYP.)
	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
	HUMIDITY SENSOR		PLAN NOTE REFERENCE
	SMOKE DETECTOR		MANUAL VOLUME DAMPER
	DUCT SIZE (reverse for elevation views)		DIRECTION OF THROW ON DIFFUSER
	1ST NUMBER - HORIZONTAL DIMENSION		CLOSED AIR PATTERN DEFLECTOR
	2ND NUMBER - VERTICAL DIMENSION		AIR DOOR SWITCH
	EC		GAS INFRARED HEATER (TYP.)
	MC		BELOW GRADE
			THERMOSTAT



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

CD
CHIPMAN DESIGN
ARCHITECTURE GROUP PC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF WATERTOWN, NY RELATING TO STRUCTURES AND BUILDINGS.

VPH ENGINEERING SERVICES, PC
AN AFFILIATE OF IMEG CORP
623 26TH AVENUE
ROCKY HILL, IL 61101
309.788.0673
P.O. BOX 788
PROJECT # 21002067.00
New York Design Firm Registration #0012979
REFERENCE SCALE IN INCHES
1" = 1'-0"

CHICK-FIL-A
WATERTOWN FSU
1920 ARSENAL STREET
WATERTOWN, NY 13601

FSR#04633
BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: 21.02

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	04/26/21	ISSUE FOR PERMIT
2	05/26/21	ISSUE FOR BID
3	8/03/21	ISSUE FOR CONSTRUCTION
4	02/11/22	RE-ISSUE FOR PERMIT
5	03/04/22	IFC: OWNER REVISIONS

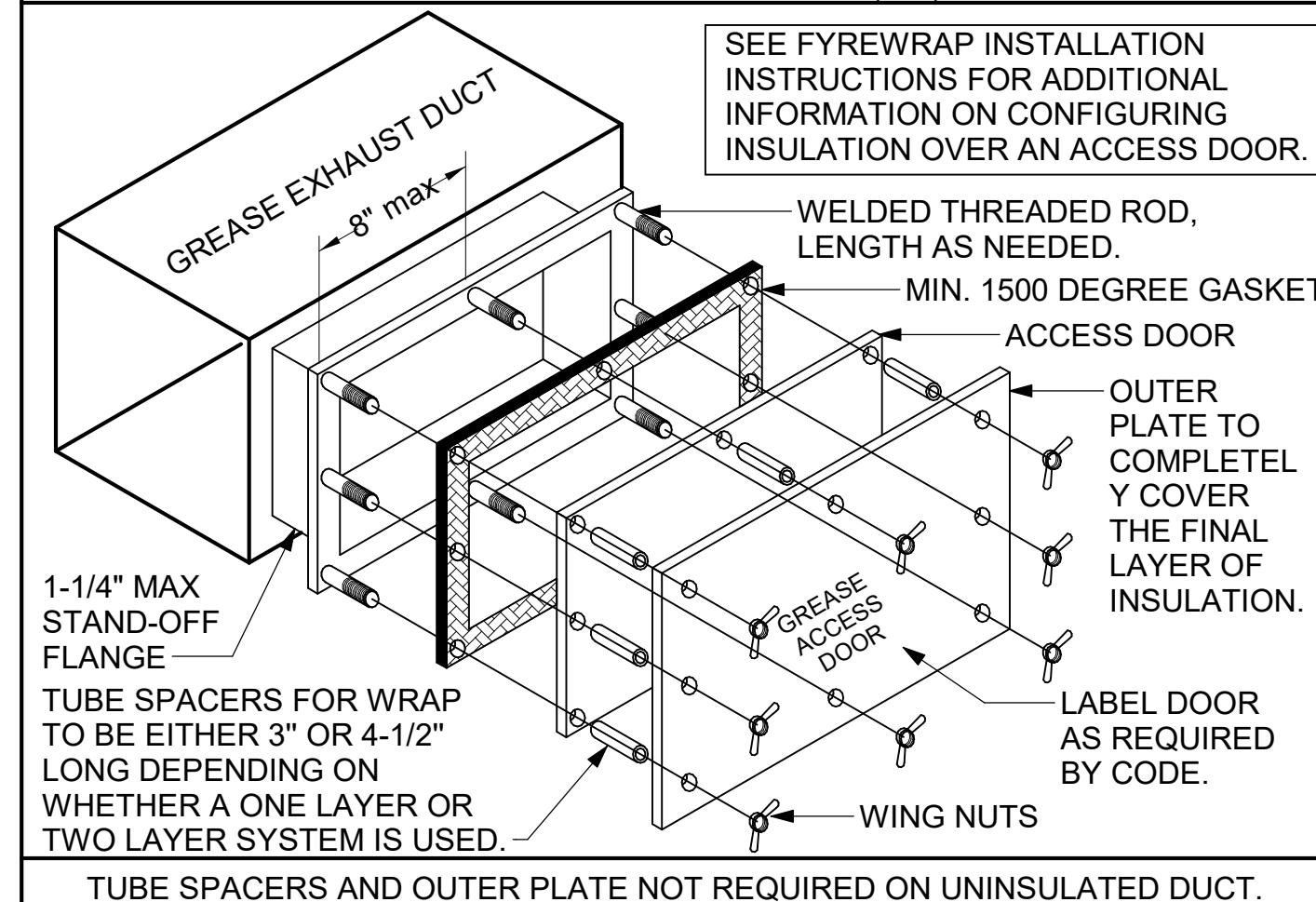
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DATE 05/26/2021
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MECHANICAL FLOOR PLAN
SHEET NUMBER

M-201L

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GREASE ACCESS DOOR SCHEDULE			
MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	9H X 14W	11H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	12H X 12W	14H X 14W	1
D	10H X 14W	12H X 16W	1
E	6H X 14W	8H X 16W	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 THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRENTON INDUSTRIES, INC (800) 382-2491.



1 MECHANICAL ROOF PLAN

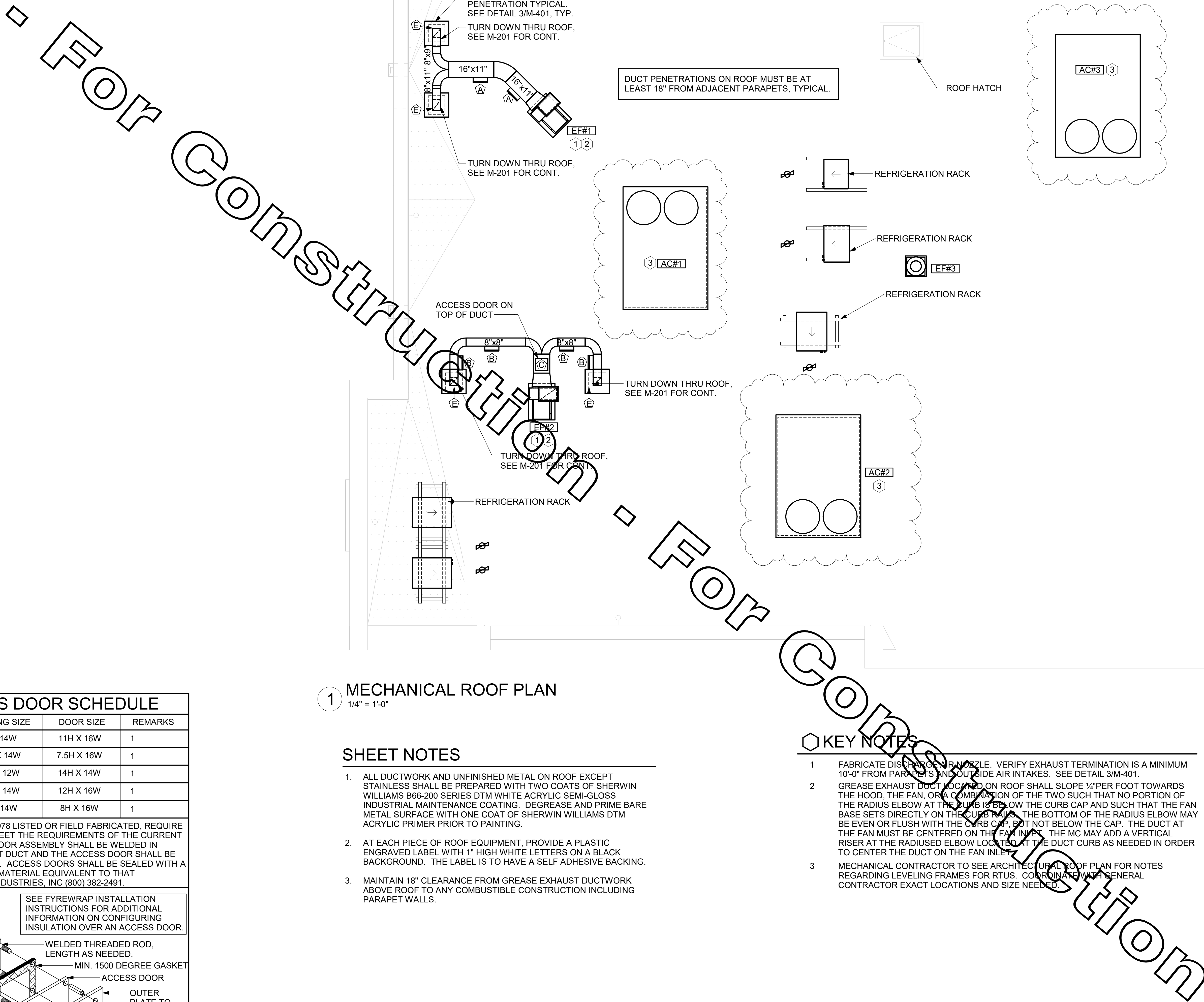
1/4" = 1'-0"

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 ACRYLIC 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 PAN/NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. SEE DETAIL 3/M-401.
- GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/2" 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 TRAIL. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR 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.
- MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.



Chick-fil-A

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



CHIPMAN DESIGN
ARCHITECTURE GROUP PC
1350 E TOUHY AVE
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P.O. BOX 100
308.788.0673
FAX: 308.788.0687
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CHICK-FIL-A
WATERTOWN FSU
1920 ARSENAL STREET
WATERTOWN, NY 13601

FSR#04633
BUILDING TYPE / SIZE: P13 SE LRQ
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SHEET MECHANICAL ROOF PLAN

ISSUE FOR CONSTRUCTION
SHEET NUMBER
M-250L

GREASE EXHAUST DUCT CLEARANCE NOTE:
 CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.

CLEANOUT DOOR NOTE:
 DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

HOOD SCHEDULE - LARGE BLDG											
MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1080	0.13"	72 @ 0.30	BACKSHELF	11"X8"	96"	37"	38"	HALTON	KVL-2	1,2,3,4,5,7,8,9,12,16,21,23
HOOD#1R	832	0.12"	55 @ 0.30	BACKSHELF	9"X8"	74"	37"	38"	HALTON	KVL-2	1,2,3,5,7,8,9,12,20,21,22
HOOD#2	701	0.30"	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	HALTON	KVL-C	1,2,3,6,7,8,9,12,13,15,16,18,21
HOOD#3	701	0.30"	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C	1,2,3,6,7,8,9,12,13,15,16,18,21

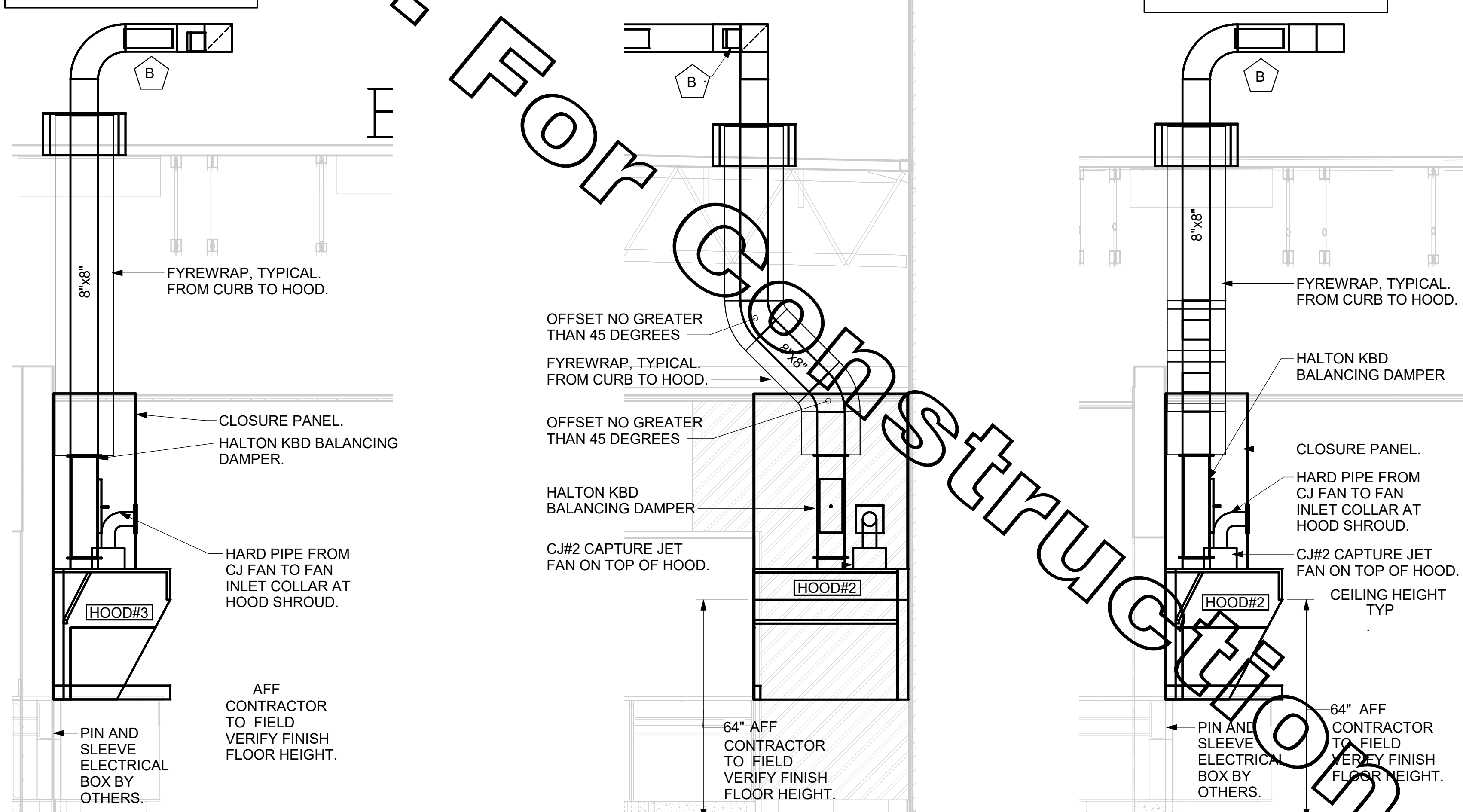
NOTES: DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).

REMARKS:

1. STAINLESS STEEL CONSTRUCTION.
2. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, SERVICE ANSUL COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
3. PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM.
4. ANSUL CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
5. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
6. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
7. PROVIDE EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
8. PROVIDE FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
9. PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR.
10. PROVIDE COUNTER MOUNTED SIDE CAPTURE JET PLENUM ASSEMBLY AND FAN ON RIGHT SIDE OF HOOD.
11. PROVIDE FACTORY INSTALLED CAPTURE JET FAN IN PLENUM.
12. PROVIDE CAPTURE JET AIR INLET AND COLLAR AT FRONT OF CLOSURE PANEL.
13. PROVIDE PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. PROVIDE PIN AND SLEEVE ELECTRICAL BOX (SINGLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
16. PROVIDE NOTCHED LEFT END SIDE PANEL.
17. PROVIDE NOTCHED RIGHT END SIDE PANEL.
18. PROVIDE 3"X3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
19. PROVIDE FULL LEFT END SIDE PANEL.
20. PROVIDE FULL RIGHT END SIDE PANEL.
21. PROVIDE HALTON KBD EQUALIZER.
22. CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.
23. CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.

SET RIGHT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

SET LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

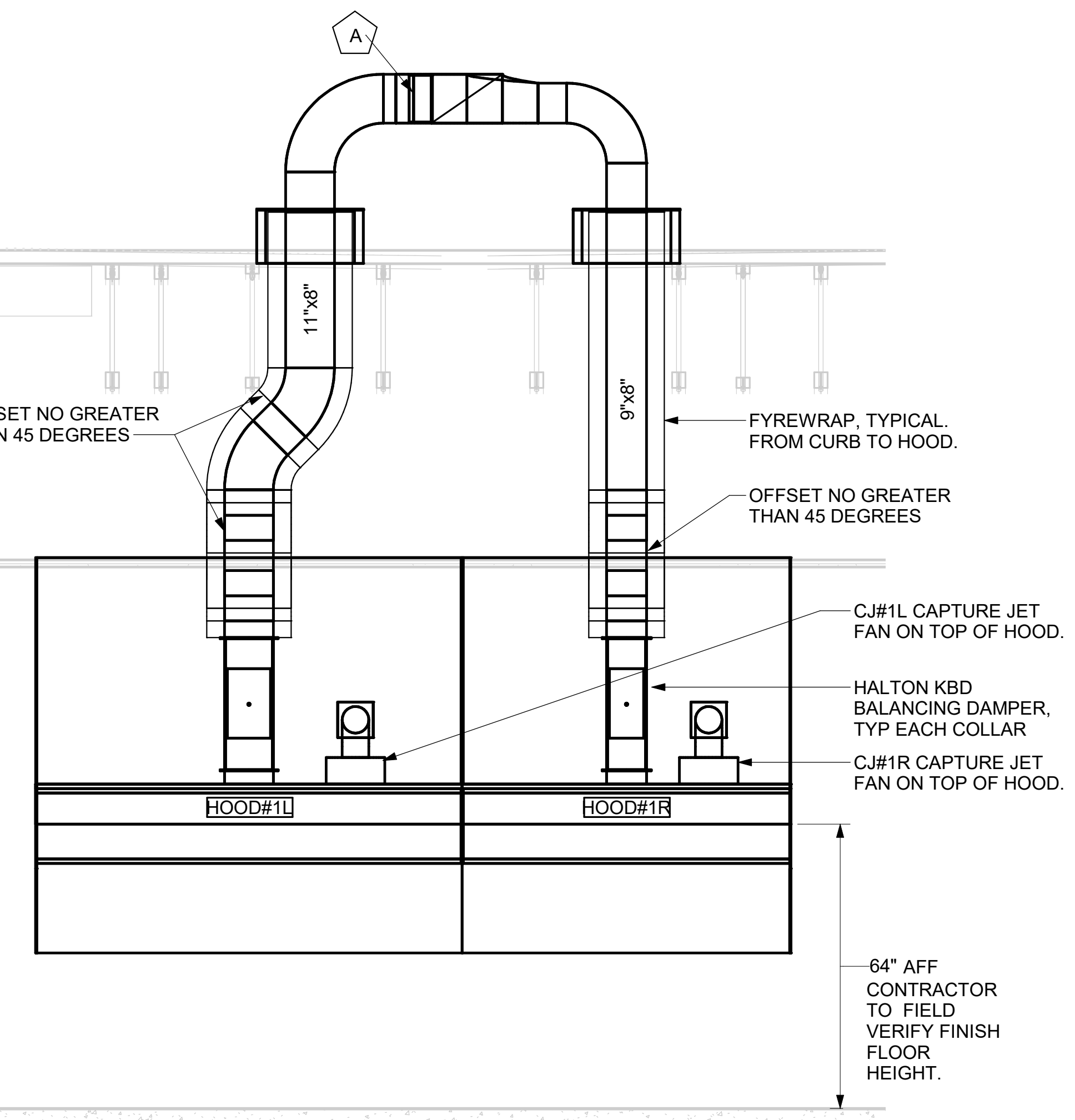


7 HOOD ELEVATION - HOOD#3 NOT TO SCALE

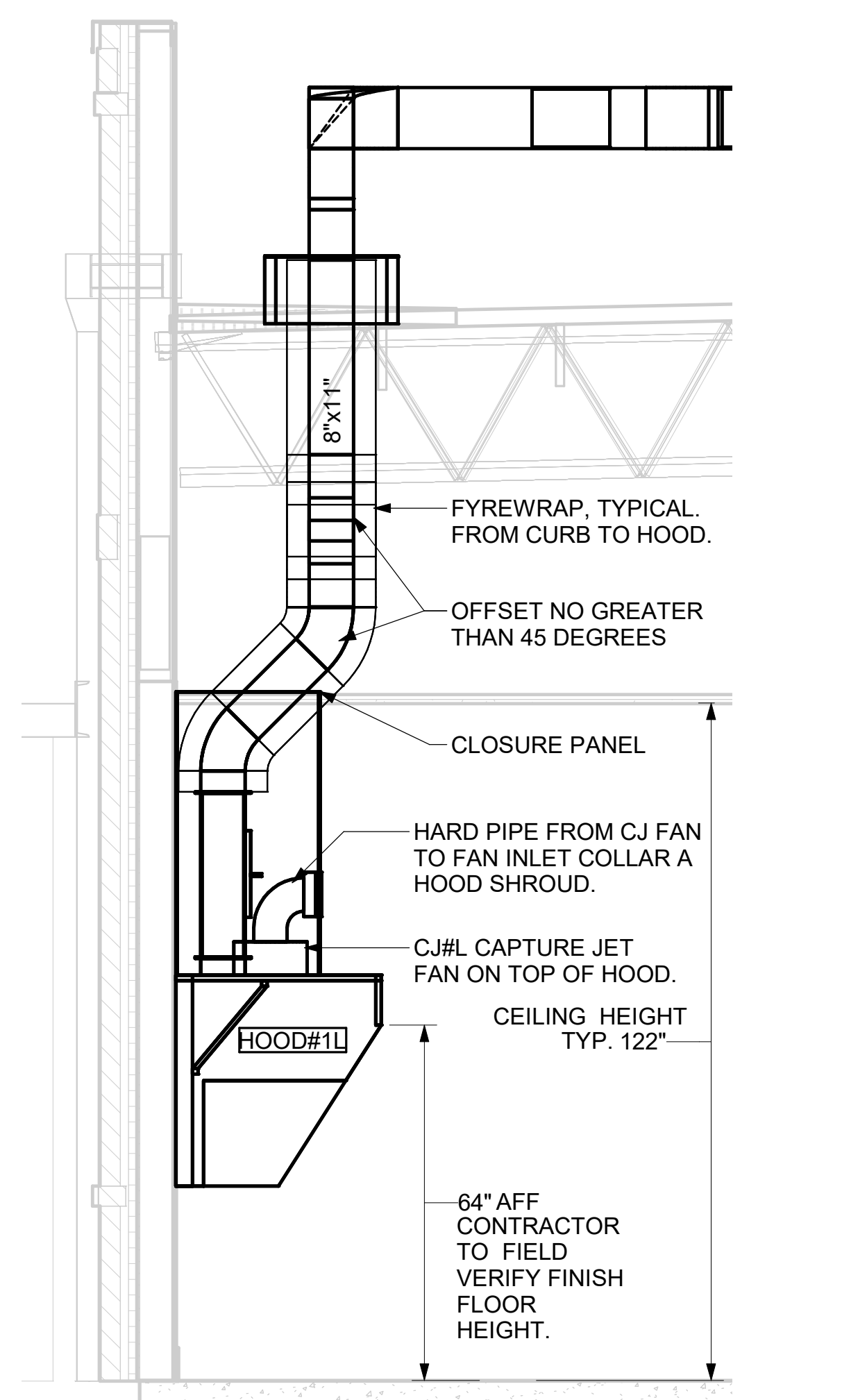
6 HOOD ELEVATION - HOOD#2 - FRONT NOT TO SCALE

5 HOOD ELEVATION - HOOD#2 - SIDE NOT TO SCALE

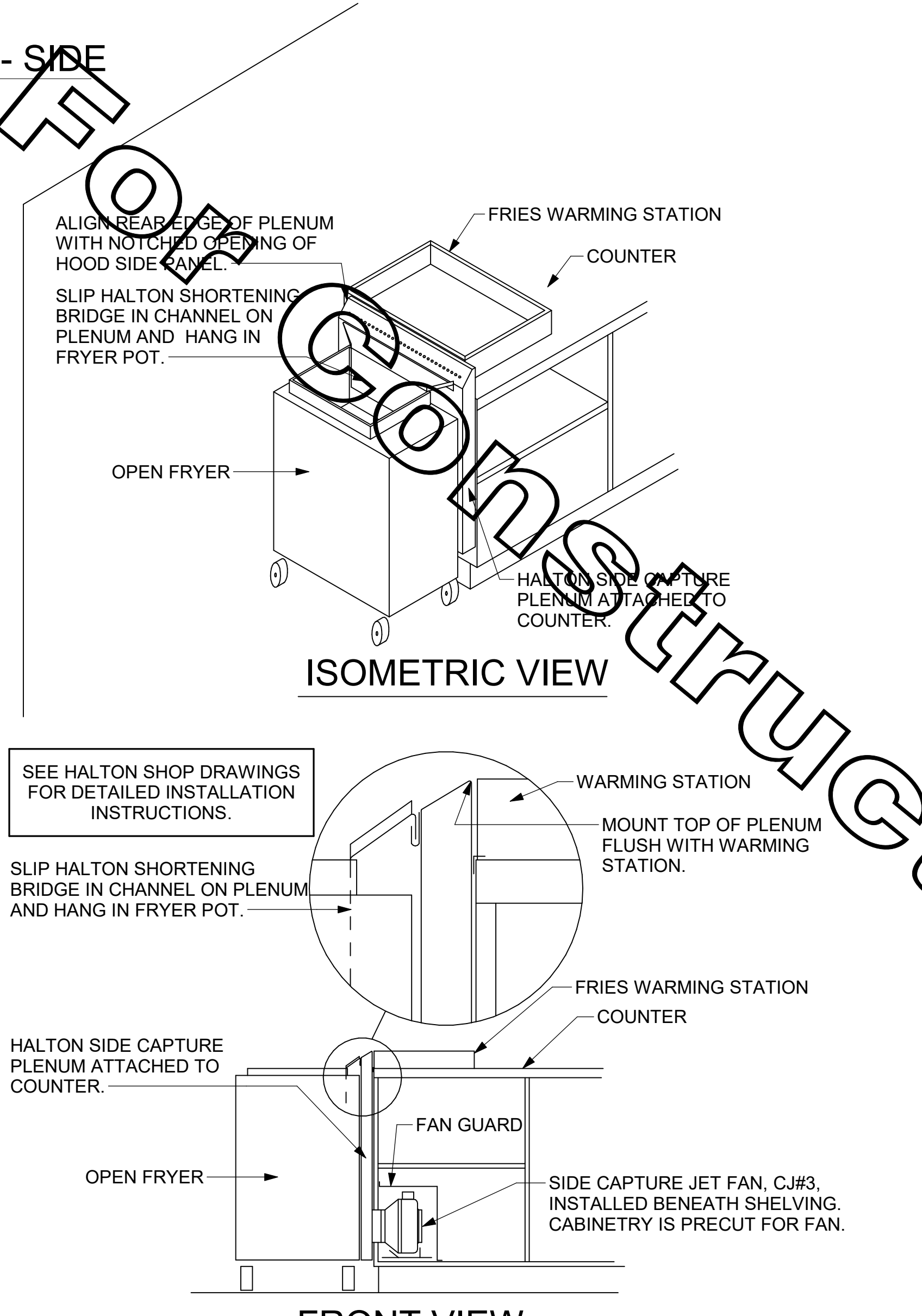
KITCHEN HOOD SYSTEMS NOTES
1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER SELECTED AND HIRED BY HALTON. COST FOR ANSUL INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FyreWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FyreWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TETRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.



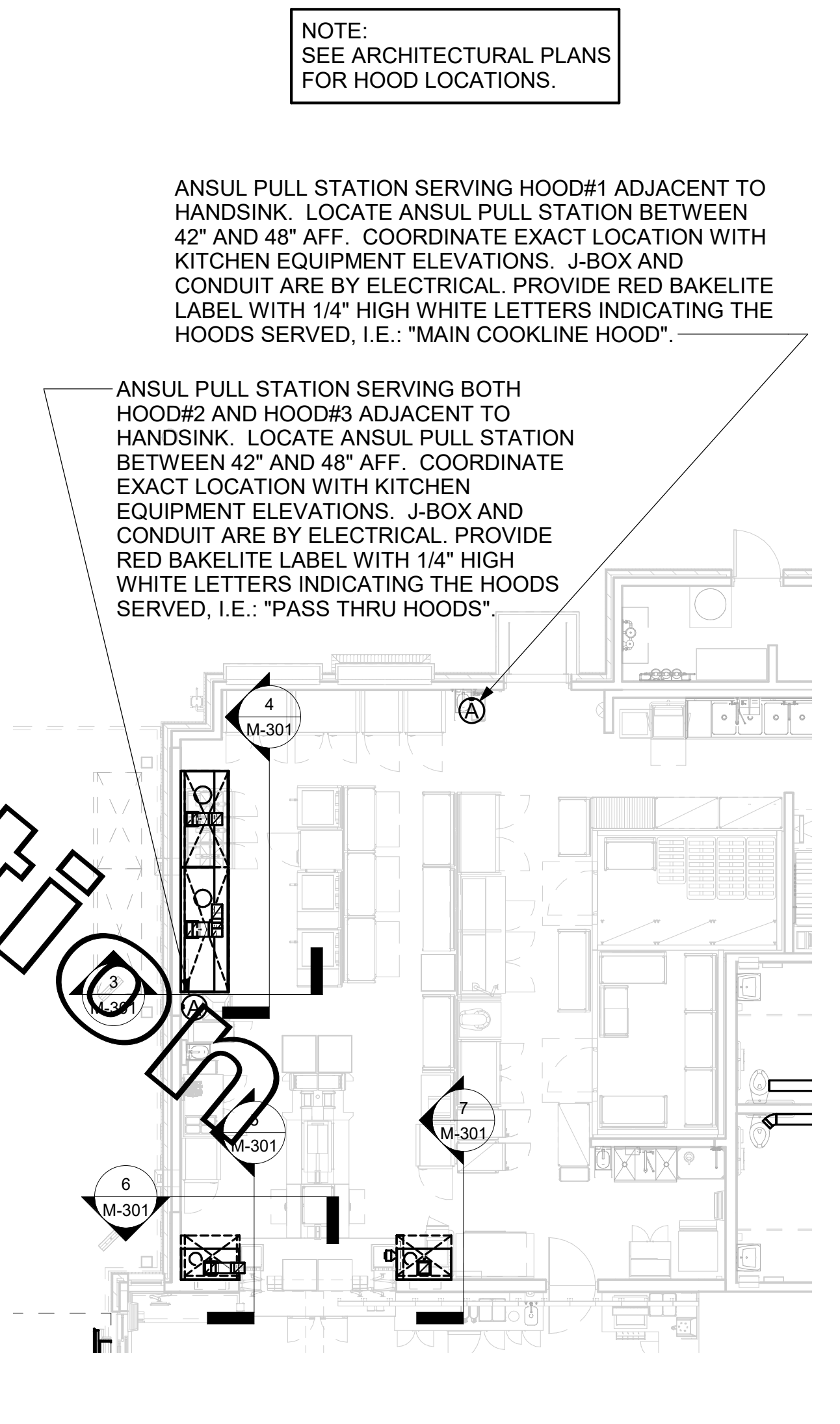
4 HOOD ELEVATION - HOOD#1 - FRONT NONE



3 HOOD ELEVATION - HOOD#1 - SIDE NOT TO SCALE



2 HALTON SIDE CAPTURE JET PLENUM - STANDARD NOT TO SCALE



1 HOOD LAYOUT 1/8" = 1'-0"



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



CHIPMAN DESIGN ARCHITECTURE GROUP PC
 1350 E TOUHY AVE
 FIRST FLOOR EAST
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 TEL: 847.298.6900

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VPH ENGINEERING SERVICES, PC
 AN AFFILIATE OF IMEG CORP
 623 26TH AVENUE
 ROCKY HILL, IL 61001
 P.O. BOX 788 0673
 FAX: 202.788.6867
 PROJECT # 21002067.00
 New York Design Firm Registration #001979
 REFERENCE SCALE IN INCHES
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CHICK-FIL-A
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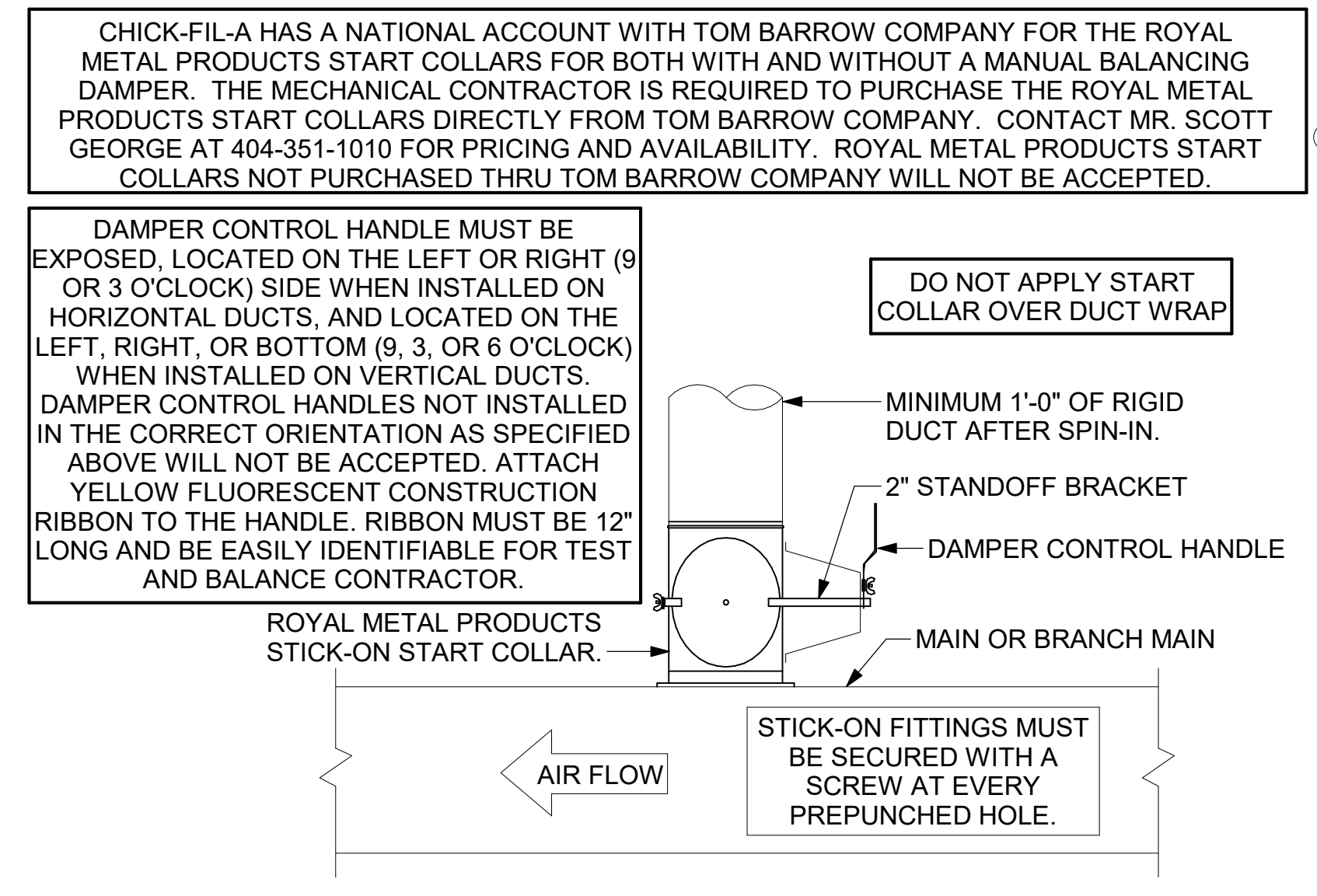
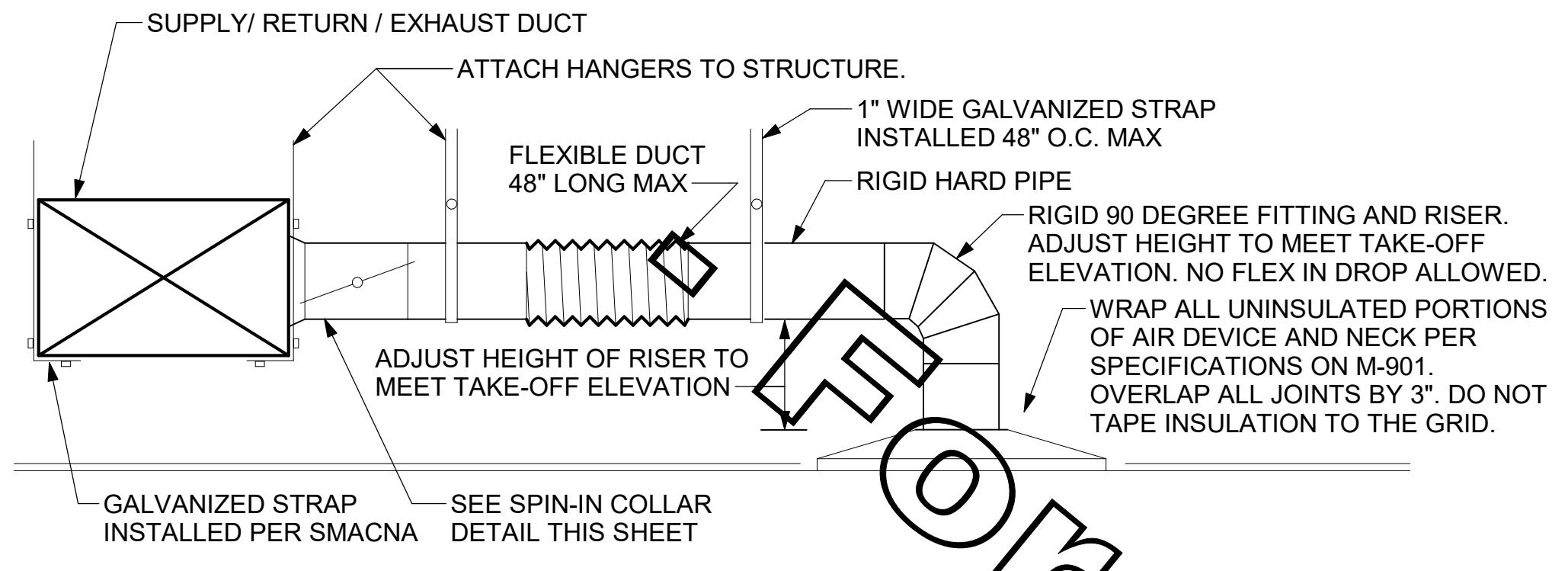
FSR#04633
 BUILDING TYPE / SPR3 SE ALL BUILDINGS
 RELEASE: 21.02

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ISSUE FOR CONSTRUCTION
 HOOD DETAILS AND SCHEDULES
 SHEET NUMBER
M-301

3/4/2022 1:51:30 PM BIM 360//NY 04633 Watertown_FSR_P19_SE_LR/04633_Watertown_MEC.rvt
 30-SE-04633-M-301-HOOD DETAILS AND SCHEDULES



GAS FIRED ROOFTOP UNIT SCHEDULE - LARGE BLDG

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	STAGES	SUPPLY	O.A.	HP	ESP	MODEL	MANUFACTURER	REMARKS
AC#1	281.9	222.7	320	256	2	9500	1250	7.5	0.80	YHD300G3RHD	TRANE	1,3,4,5,7,8,9,10,11,12,13,14,15,16
AC#2	181.3	139.0	280	224	2	5600	1550	5	0.65	YHD210G3RHD	TRANE	2,3,4,6,7,8,9,10,11,12,13,14,15,16
AC#3	181.3	139.0	280	224	2	6000	1550	5	0.65	YHD210G3RHD	TRANE	1,3,4,7,8,9,10,11,12,13,14,15,16

NOTES: COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80°FDB/67°FWB, OUTDOOR: 96°FDB, AND 400 CFM PER TON. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE CORPORATION. CONTACT TRANE TECH SUPPORT AT 866-986-4822 FOR PRICING, ORDERING AND AVAILABILITY OR BY EMAIL CFA@TRANE.COM MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS: 1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. 2. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. 3. PROVIDE 14" HIGH ROOF CURB PROVIDE CURBS PLUS RESTRAINT CLIP KIT. 4. SEE DETAIL 2/M-501 FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC. 5. PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET. 6. PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET. 7. PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR. 8. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT. 9. PROVIDE 2" MERV 8 THROW AWAY FILTERS. 10. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS. 11. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER. 12. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED. 13. PROVIDE FRESH AIR TEMPERING KIT. 14. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR. 15. PROVIDE FACTORY INSTALLED BELT TENSIONER. 16. PROVIDE FACTORY CONFIGURED PHASE LOSS PROTECTION. 17. PROVIDE UNIT WITH MSAV BLOWER. 18. PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH. 19. PROVIDE FACTORY STAINLESS STEEL HEAT EXCHANGER.

1 SAG/RAG/GRILLE TAKE-OFF NOT TO SCALE

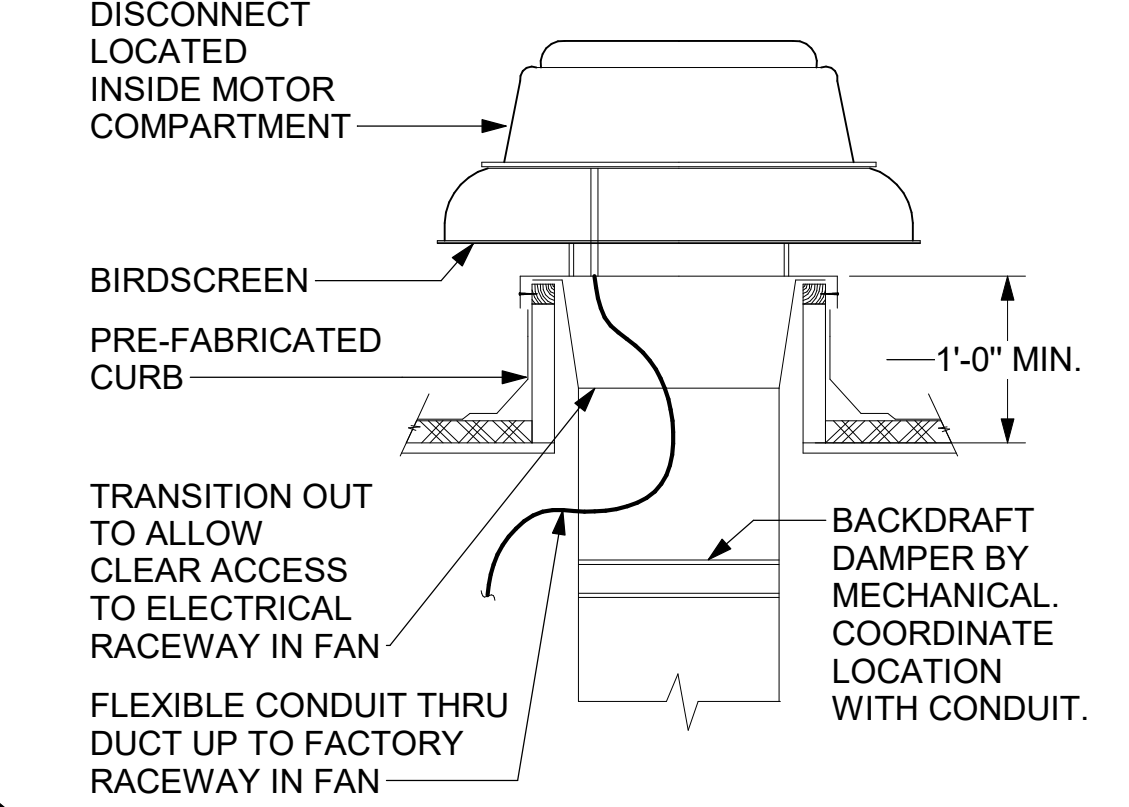
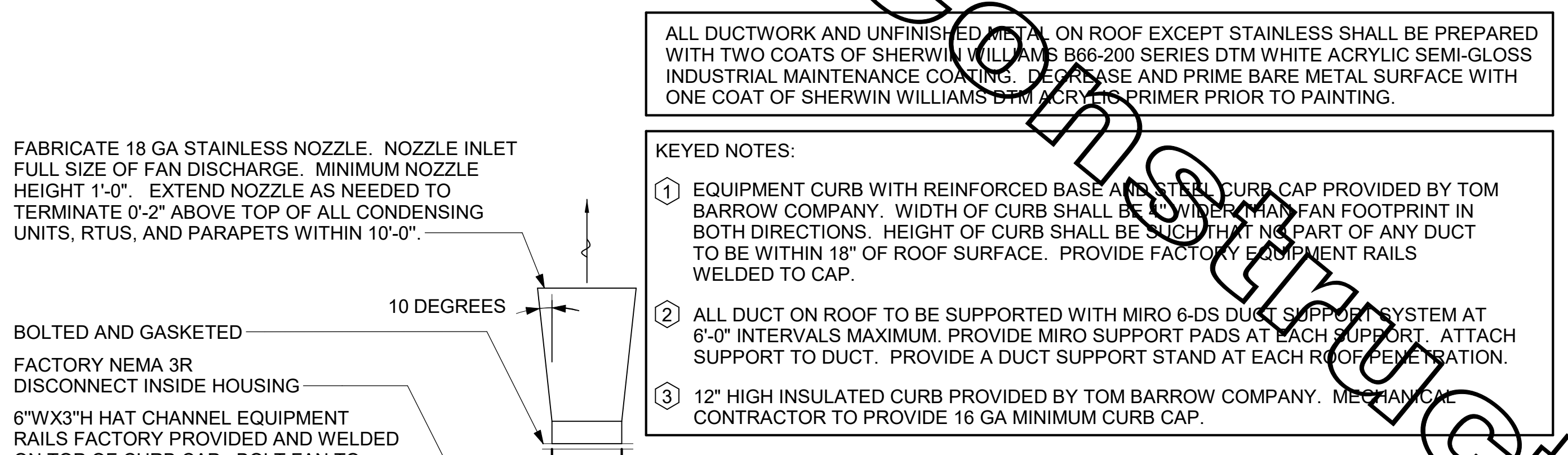
2 START COLLAR NOT TO SCALE

EXHAUST FAN SCHEDULE - LARGE BLDG

MARK	CFM	ESP	RPM	Tip Speed	HP	Area Served	MODEL	MANUFACTURER	REMARKS
EF#1	1912	0.75	1326	5207	1/3/4	HOOD#1	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#2	1402	0.95	1199	4708	3/4	HOOD#2 & HOOD#3	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#3	300	0.375	1,294	3,091	1/8	RESTROOMS	ACED-90C15DH	LOREN COOK	3,11,12,13,14,15,16
EF#4	450	0.3	1144	---	5/8 W	DTT CLOSET	GCVF-500	LOREN COOK	18, 19, 20

NOTES: GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL. GREASE EXHAUST FANS TO BE U.L. 762 LISTED. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FAN/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.

REMARKS: 1. UPPLAST, ARRANGEMENT TO CONFIRMATION. SEE PLANS TO CONFIRM CONFIGURATION. 2. PROVIDE FACTORY STEEL FAN WHEEL. 3. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT. 4. PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE. 5. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034. 6. PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR. 7. PROVIDE FACTORY DRAIN CONNECTION. 8. PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL. 9. PROVIDE FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT. 10. PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE. 11. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET. 12. PROVIDE BIRDSCREEN. 13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 4/M401. 14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR. 15. PROVIDE 12" HIGH CURB. 16. PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER. 17. UTILITY SET FAN CURB AND ASSOCIATED EXHAUST DUCT CURB PROVIDED BY TOM BARROW COMPANY. 18. PROVIDE NEMA 1 PREWIRED DISCONNECT. 19. PROVIDE AIR BALANCE KIT AND SECURE TO FAN. 20. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 80°F.

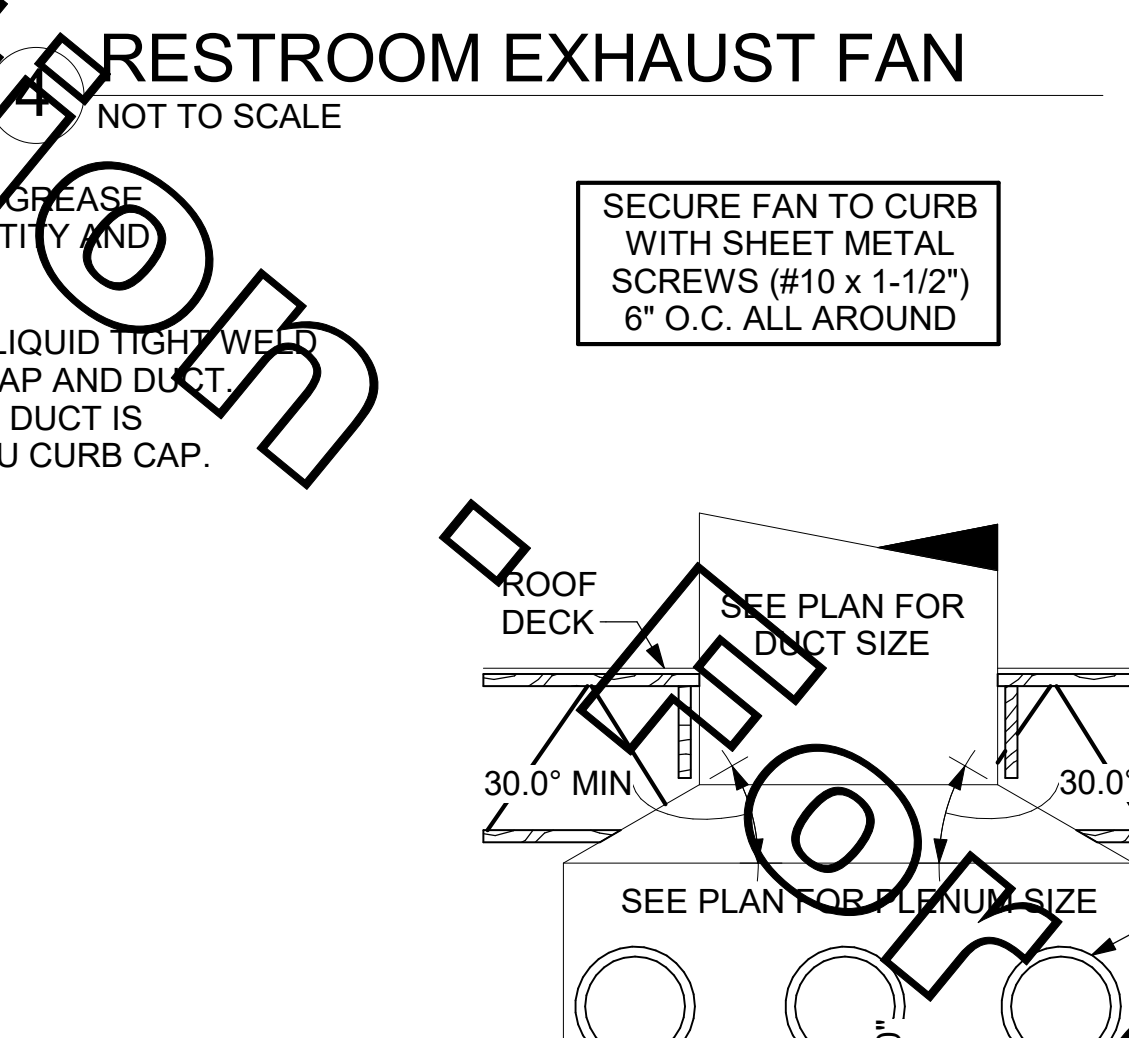
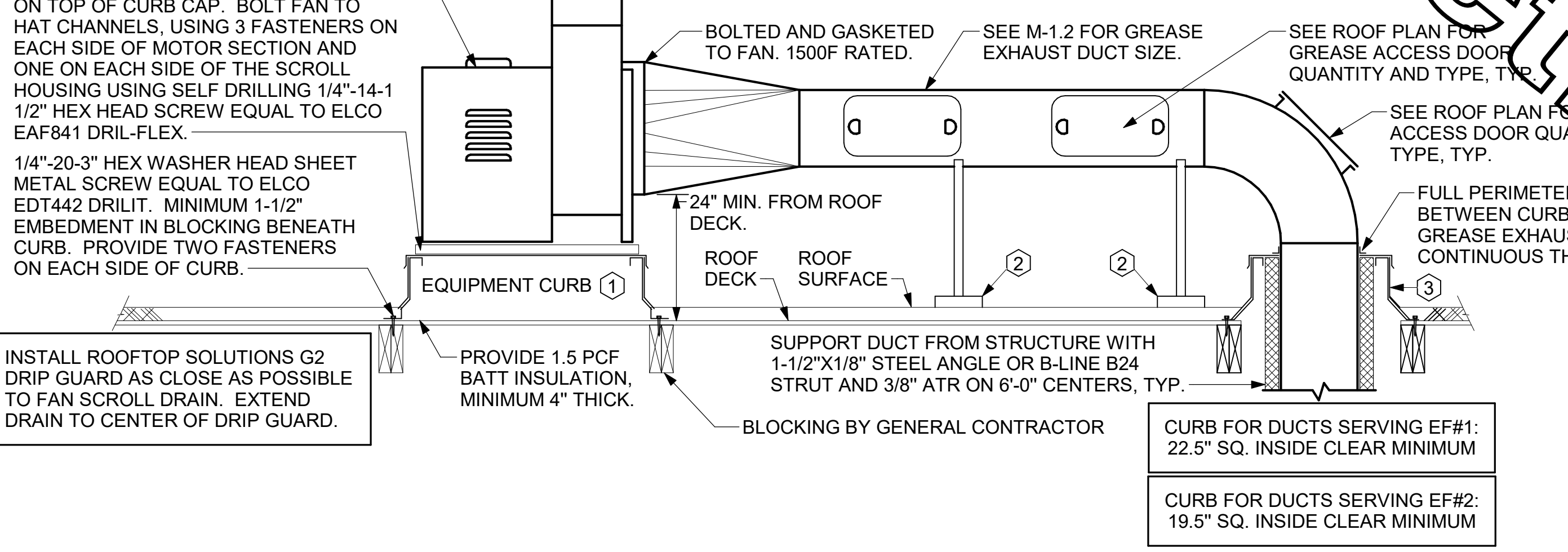


AIR DOOR SCHEDULE - LARGE BLDG

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1765	2670 FPM	10 KW	3/4 HP	DRIVE-THRU	CHA-1-48E	Powered Aire	1,2
AD#2	3867	4220 FPM	N/A	3/4 HP	REAR DOOR	RBT-1-48	Powered Aire	3

NOTES: CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL 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.

REMARKS: 1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING. 2. FACTORY WIRED DISCONNECT. 3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL. AIR CURTAIN WIRING DIAGRAM. 4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.

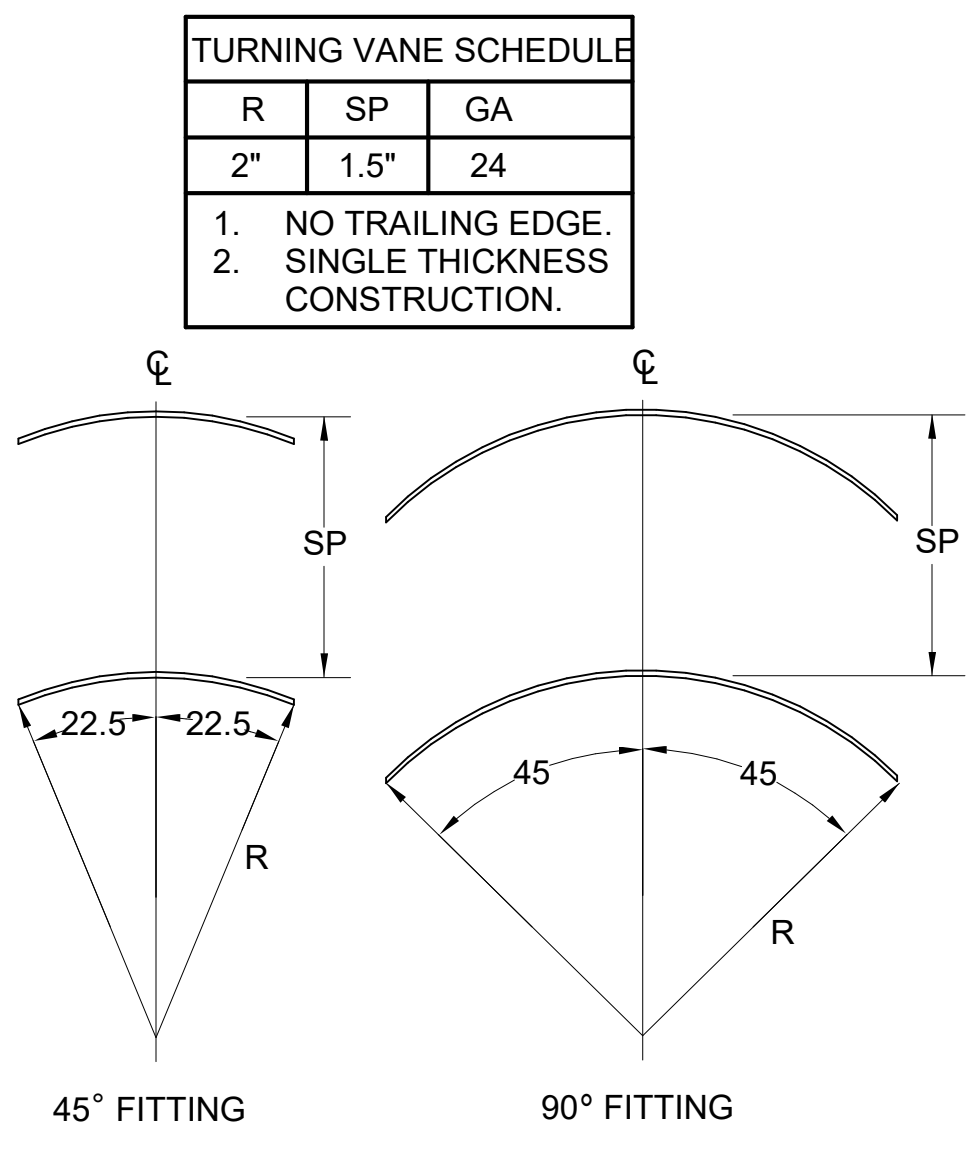


AIR DEVICE SCHEDULE - LARGE BLDG

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/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	19"x19"	BEVELLED	1,3,5,6
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	18"x10"	20"x12"	SURFACE	1
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
G	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELLED	1,2,3,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED SQUARE RETURN AIR GRILLE.	RESTROOMS/ ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6
L	PRICE MODEL ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	12"x12"	14"x14"	SURFACE	1

NOTES: CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL 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.

REMARKS: 1. STANDARD OFF WHITE FINISH. 2. PROVIDE MODEL VCS3 NECK DAMPER. 3. SEE DRAWING M-201 FOR TYP. 4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN. 5. PROVIDE BACKPAN, MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY. 6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-401. 7. FACTORY INSULATED R-6 BACKPAN.



BROMIC ELECTRIC HEATER SCHEDULE

MARK	KW	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
EH-1	60	56"	8.5"	3.5"	BRACKET	BH0420005	Bromic

NOTES: CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH BROMIC COMPANY FOR THE ELECTRIC HEATER PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE HEATERS DIRECTLY FROM BROMIC COMPANY. CONTACT MR. FRANK SARVER AT 858-400-4063, FOR PRICING AND AVAILABILITY. BROMIC HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED.

REMARKS: 1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. 3. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

CIRCULATION FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI

REMARKS: 1. ALUMINUM PADDLE WITH STEEL HUB PROPELLER. 2. 360 DEGREE ROTATING HED HORIZONTALLY AND VERTICALLY. 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 4. 3-SPEED TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. 5. FACTORY PRE-WIRED POWER CORD. 6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS. 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, 12" LATERALLY FROM THE FAN LOCATION. 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. 9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.

NOTES: 1. CONFIRM FAN QUANTITY WITH CANOPY SHOP DRAWINGS. 2. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FANS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

GAS FIRED INFRARED HEATER SCHEDULE - LARGE BLDG

MARK	INPUT (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
GH	50	48-1/4"	13"	10"	Bracket	2352-NG	Schwank

NOTES: CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE GAS FIRED INFRARED HEATERS. THE MECHANICAL CONTRACTOR SHALL 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.

REMARKS: 1. STEEL BURNER WITH CERAMIC BURNER TILES. 2. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 3. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" LATERALLY FROM THE LONG SIDE OF THE HEATER. 4. STAINLESS STEEL HEAT SHIELDS PROVIDED BY TOM BARROW COMPANY.

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

CHIPMAN DESIGN ARCHITECTURE GROUP PC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF WATERTOWN, NY RELATING TO STRUCTURES AND BUILDINGS.

VPH ENGINEERING SERVICES, PC
AN AFFILIATE OF IMEG CORP
623 26TH AVENUE
ROSELAND, IL 61071
309.788.0673
P.O. BOX 788-0887
PROJECT # 21002067.00
REV#01/20/21
New York Design Firm Registration #0612979
REFERENCE SCALE IN INCHES
1" = 1'-0"

CHICK-FIL-A
WATERTOWN FSU
1920 ARSENAL STREET
WATERTOWN, NY 13601

FSR#04633
BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: 21.02

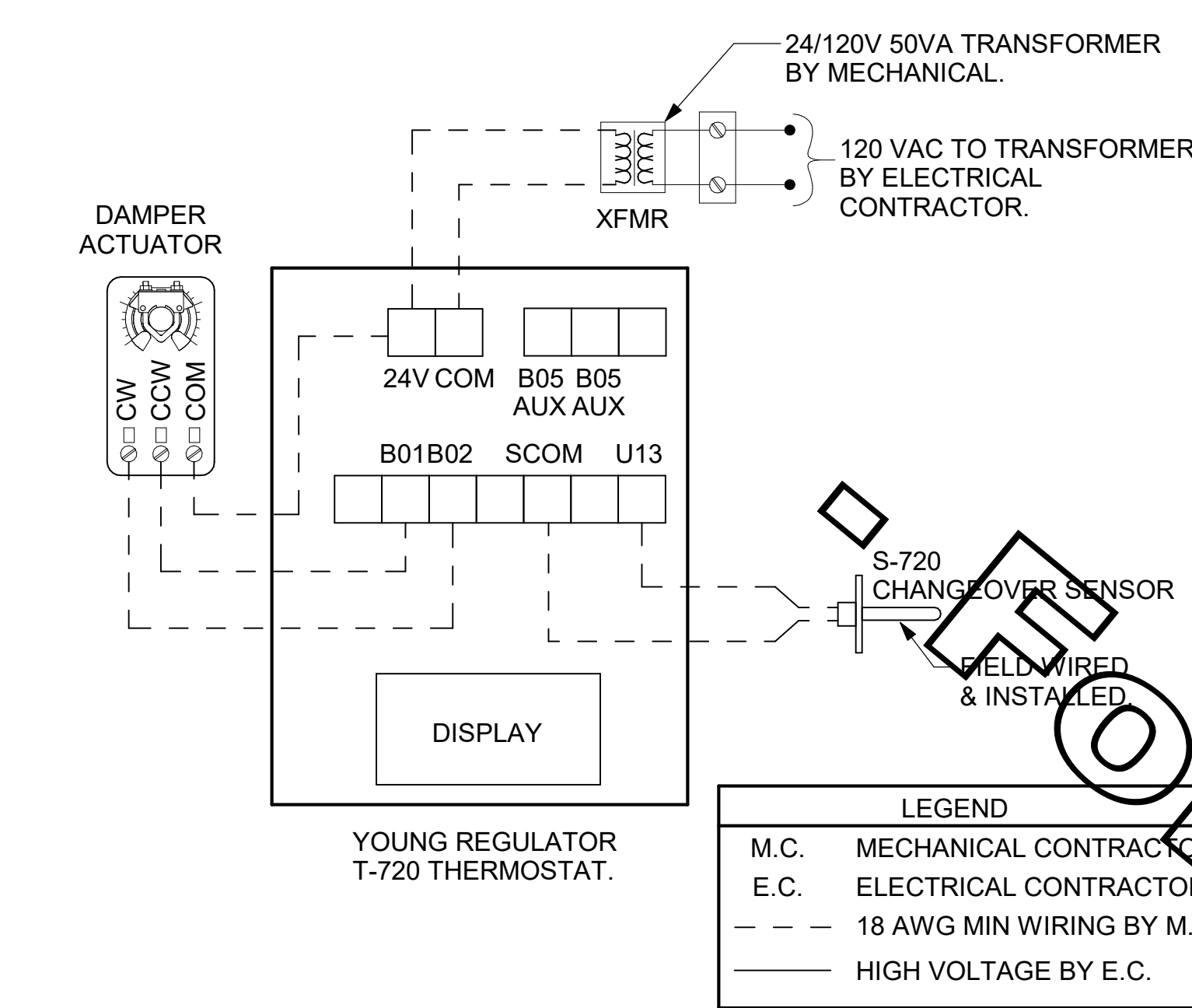
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	04/26/21	ISSUE FOR PERMIT
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ISSUE FOR CONSTRUCTION

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SHEET
HVAC DETAILS AND SCHEDULES
SHEET NUMBER
M-401L

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

- SEE DWG M-201 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
- 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24 HOURS EACH DAY.
- 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 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "PLAY AREA THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

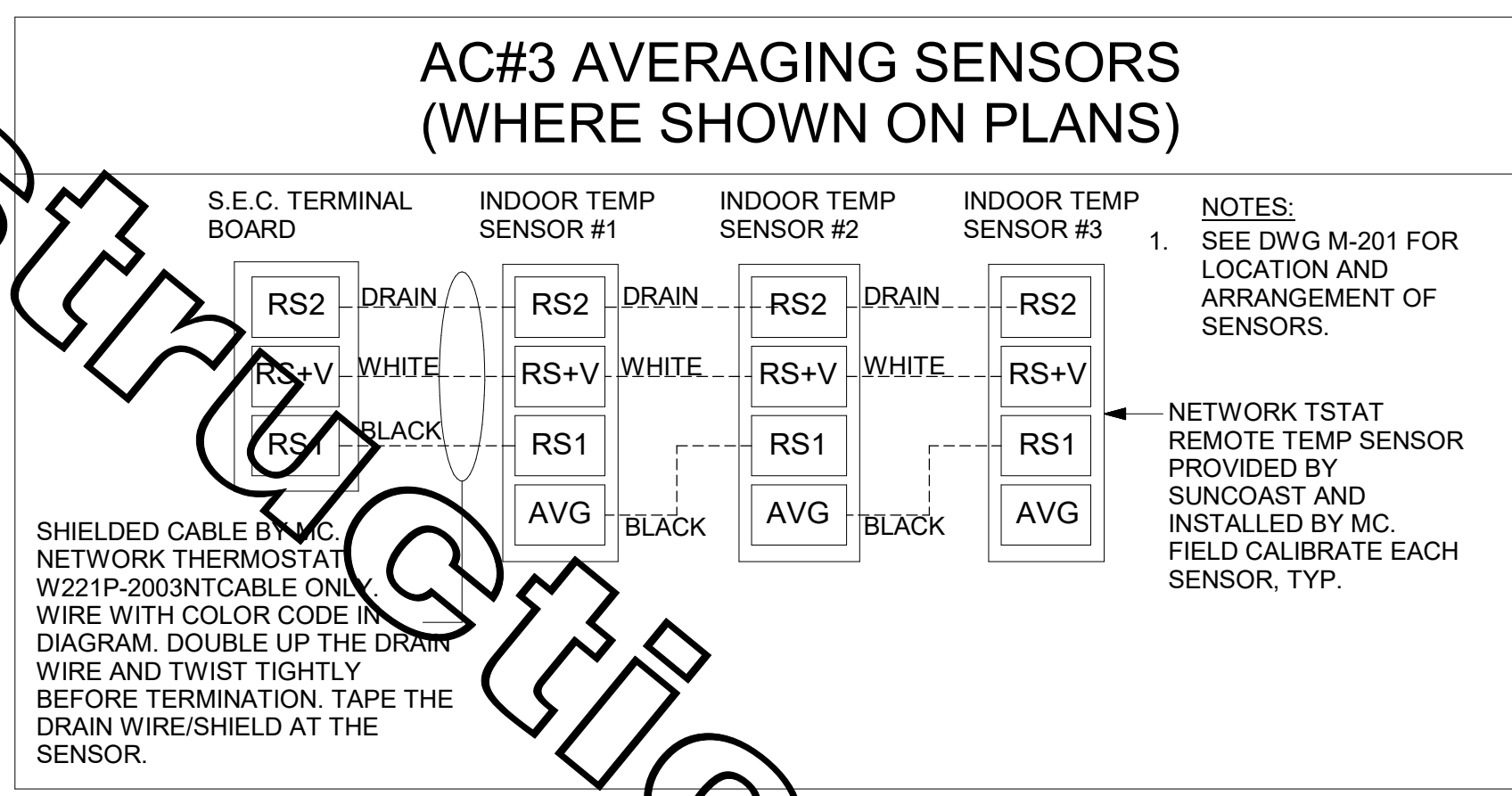
SEQUENCE OF OPERATION

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

LEGEND

M.C. MECHANICAL CONTRACTOR
 E.C. ELECTRICAL CONTRACTOR
 - - - 18 AWG MIN WIRING BY M.C.
 _____ HIGH VOLTAGE BY E.C.

4 VAV DAMPER AND TSTAT - TEAM MEMBER ROOM AREA
 NOT TO SCALE



NOTES:

- 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.
- SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
- PROVIDE PLAIC ENGRAV LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 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. LEAVE 4FT SERVICE LOOP AT RTU FOR TERMINATION AND FUTURE CONTROLS. DO NOT CUT OFF EXTRA CONDUCTORS.
- NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CABLE PENETRATION AT ALL WALL LOCATIONS.
- THE RH SETPOINT IS ESTABLISHED BY ADJUSTING THE R41 POTENTIOMETER (LABELED "DEHUMID SP") ON THE RTOM MODULE. SET TO 60%.

PROVIDE A PROFESSIONAL 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. ATTACHED 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.

LEGEND

S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN THE KITCHEN

1 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, DENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.

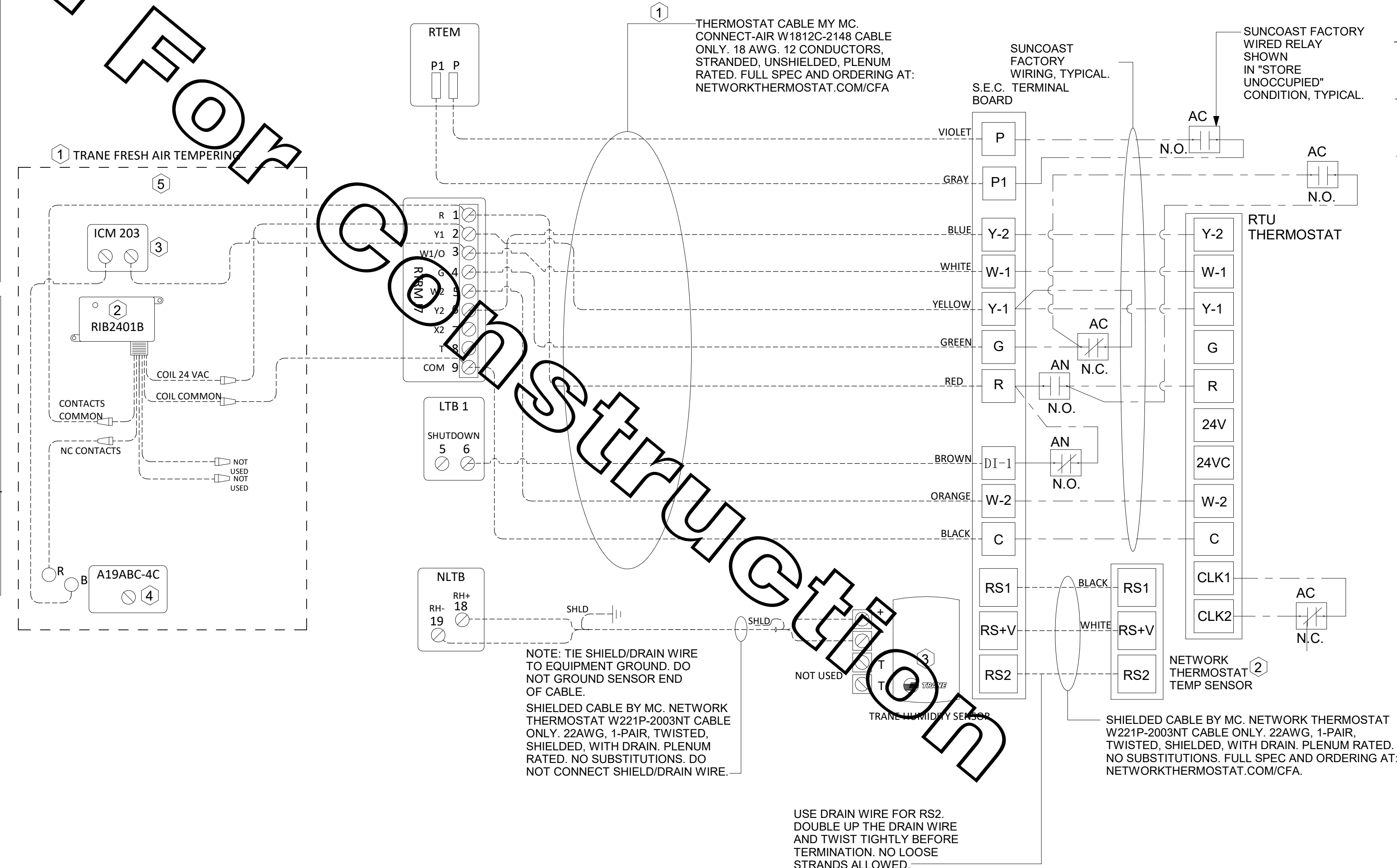
--- ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.

--- LOW VOLTAGE WIRING BY S.E.C.

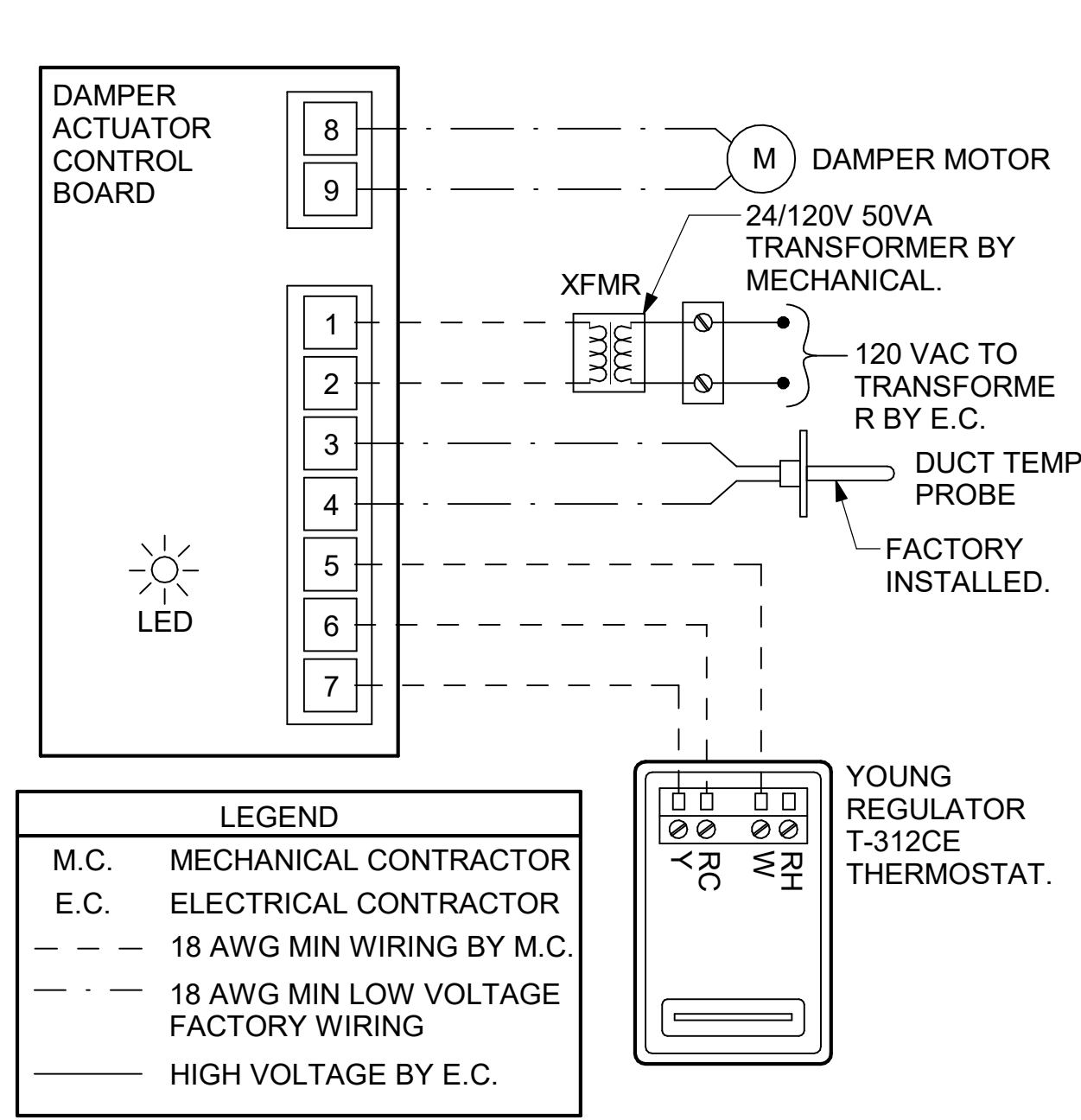
--- LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

FRESH AIR TEMPERING KEYED NOTES:

- INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.
- RIB2401B SPDT RELAY PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
- ICM 203 DOB TIMER PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
- A19ABC-4C TEMPERATURE CONTROLLER PROVIDED BY TRANE AND INSTALLED BY CONTRACTOR ON SUPPLY DUCT. SET T 58F. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCTWORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
- 18 AWG MIN. LOW VOLTAGE WIRING BY MC. USE CONNECT-AIR, BELDEN, OR SOUTHWIRE.



1 ROOFTOP UNIT CONTROL WIRING - TRANE
 NOT TO SCALE



NOTES

- SEE DWG M-201 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
- 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24 HOURS EACH DAY.
- 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 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "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 72F THE DAMPER WILL OPEN FULLY ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
- WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71F THE DAMPER WILL OPEN FULLY ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

LEGEND

M.C. MECHANICAL CONTRACTOR
 E.C. ELECTRICAL CONTRACTOR
 - - - 18 AWG MIN WIRING BY M.C.
 - - - 18 AWG MIN LOW VOLTAGE FACTORY WIRING
 _____ HIGH VOLTAGE BY E.C.

3 VAV DAMPER AND TSTAT - MGRS OFFICE
 NOT TO SCALE

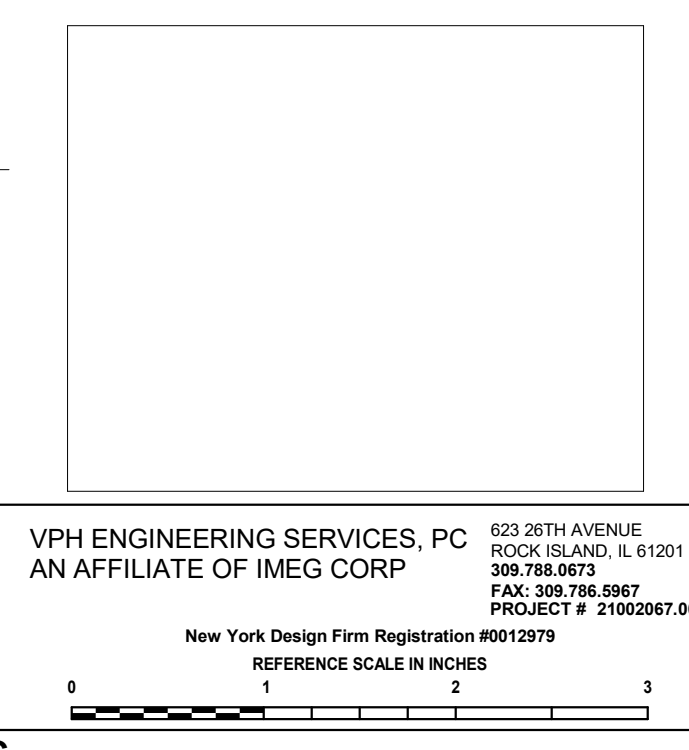


Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998



CHIPMAN DESIGN ARCHITECTURE GROUP PC
 1350 E TOUHY AVE
 FIRST FLOOR EAST
 DES PLAINES, IL 60018
 TEL: 847.298.6900

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CHICK-FIL-A
 WATERTOWN FSU
 1920 ARSENAL STREET
 WATERTOWN, NY 13601

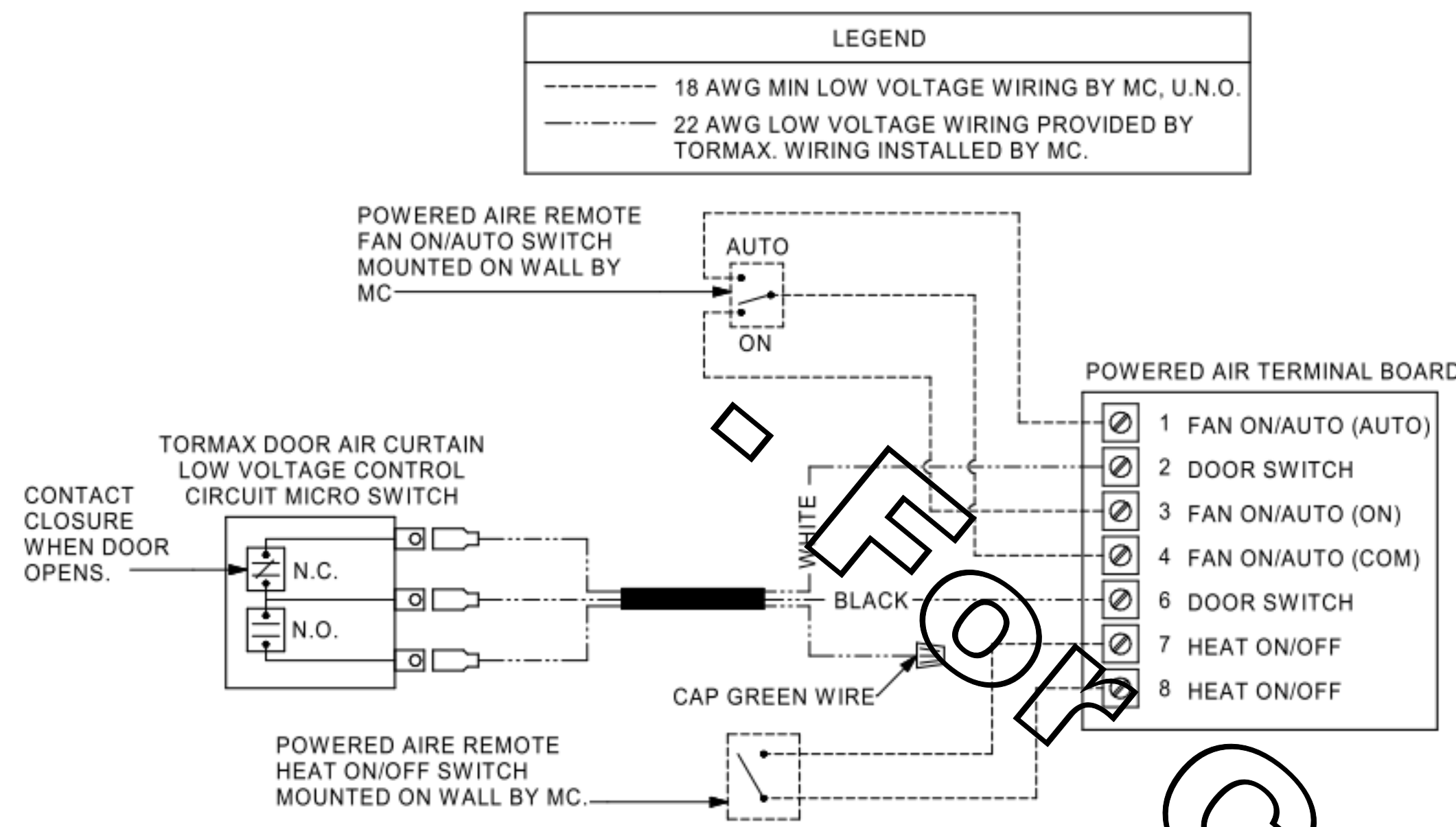
FSR#04633
 BUILDING TYPE / SIZE: P13 SE LRG
 RELEASE: 21.02

REVISION SCHEDULE

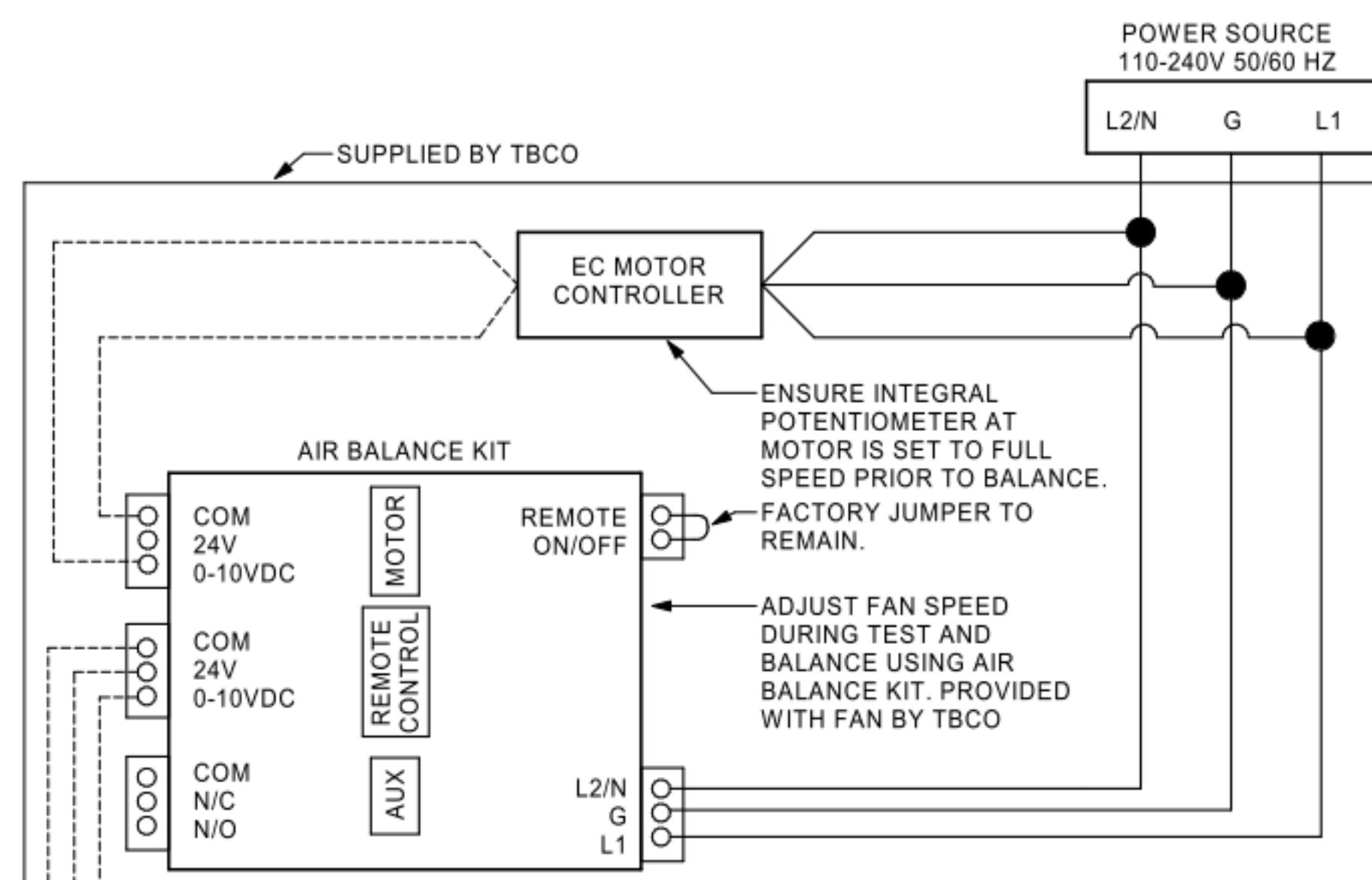
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ISSUE FOR CONSTRUCTION

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 SHEET HVAC CONTROLS



1 AIR CURTAIN WIRING DIAGRAM
NO SCALE



- NOTES**
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON SIDE OF FAN HOUSING.
 - PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "RFF#1 THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.
 - PARAMETERS PRESET BY TBCO, BUT MC TO CHECK: SET THERMOSTAT TO 76° F. (FAN SHALL RUN AT 20% WHEN TEMP IS BELOW 76° F AND 100% WHEN TEMP IS ABOVE 80° F. FAN SPEED WILL LINEARLY INCREASE FROM 20% TO 100% AS TEMP INCREASES FROM 76° F TO 80° F.)
 - ON THE AIR BALANCE KIT, SET MODE SWITCH TO "AUTO SCALED"

LEGEND

MC MECHANICAL CONTRACTOR
TBCO TOM BARROW COMPANY

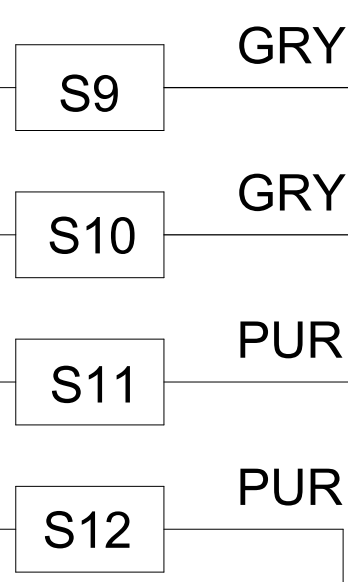
----- 18 AWG MIN LOW VOLTAGE WIRING BY MC.
——— LINE VOLTAGE BY ELECTRICAL CONTRACTOR

THERMOSTAT FACTORY PROVIDED BY TBCO AND FIELD INSTALLED BY MC WHERE ON PLANS

2 DTT CLOSET CONTROL DIAGRAM
NO SCALE

18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING TO OUTDOOR AIR SENSOR. LOCATE ABOVE REAR DOOR OF SERVICE ENTRANCE ON WALL AT LEAST 10 FT AFF. SENSOR BY SEC. INSTALL WIRING BY MC. DO NOT ROUTE ALONG OR NEAR HIGH VOLTAGE WIRING.

18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING TO VESTIBULE WALL SENSOR. LOCATE WHERE SHOWN ON DRAWINGS. SENSOR BY SEC. INSTALL WIRING BY MC. DO NOT ROUTE ALONG OR NEAR HIGH VOLTAGE WIRING.

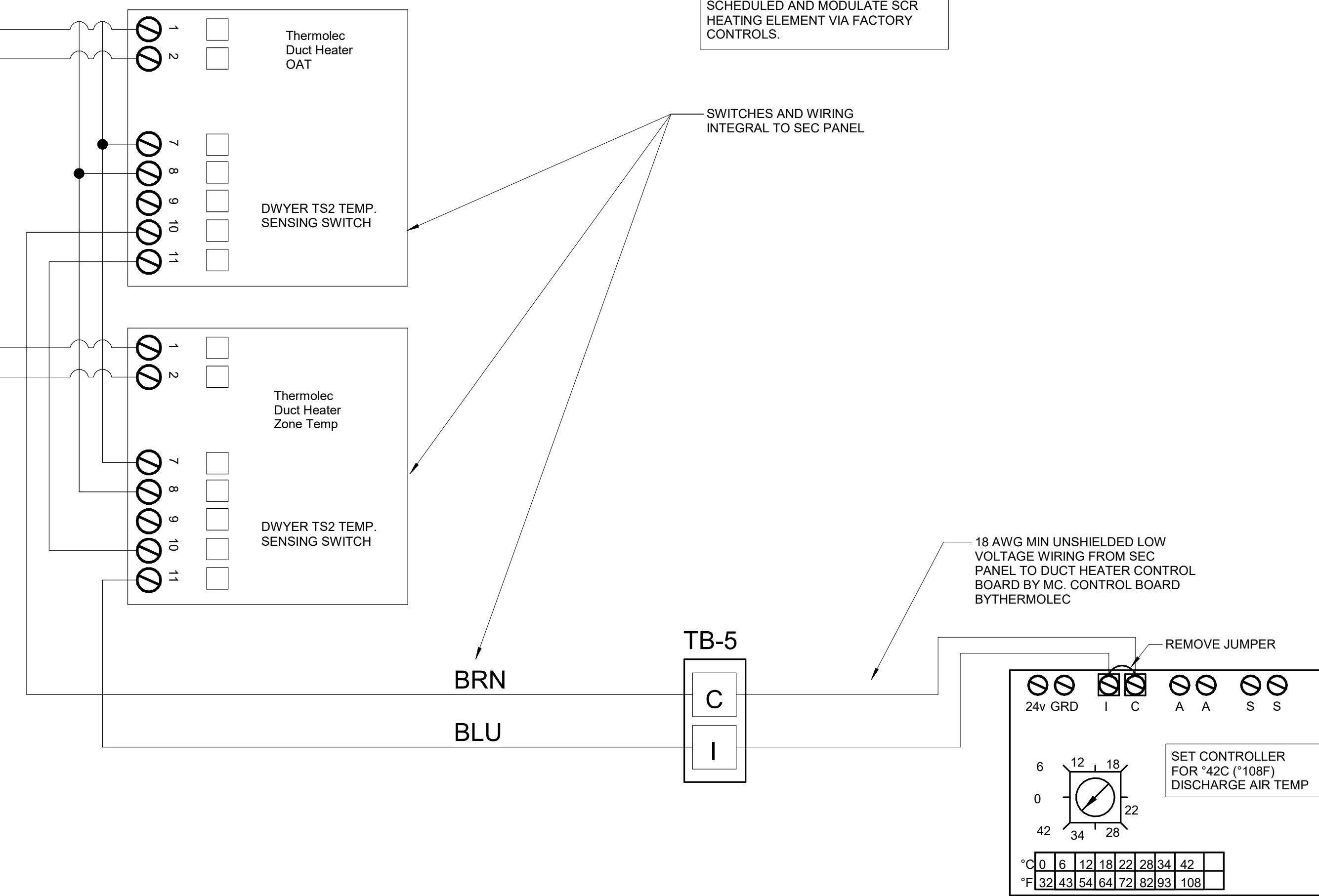


NOTES:

- MECHANICAL CONTRACTOR TO PURCHASE THE T500 CONTROL PANEL AND COMPONENTS FROM SUNCOAST ENVIRONMENTAL CONTROLS. TELEPHONE 877-544-8879.
- 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.

EDH OPERATION

VESTIBULE DUCT HEATER SHALL MAINTAIN SPACE AT 50P WHEN OUTSIDE AIR IS BELOW 45F. ABOVE 45F, HEATER SHALL BE DISABLED. HEATER SHALL MAINTAIN FIXED DISCHARGE AIR TEMPERATURE AS SCHEDULED AND MODULATE SCR HEATING ELEMENT VIA FACTORY CONTROLS.



4 THERMOLEC EDH TERMINALS
12" = 1'-0"

ELECTRIC DUCT HEATER SCHEDULE																
SYMBOL	SERVICE	TYPE	DUCT SIZE	CFM	EAT °F	LAT °F	STAGES	KW	ELECTRICAL			REMARKS				
									VOLT-PHASE	DISCONNECT	CONTROLLER/STAR...					
EDH-1	VESTIBU...	OPEN	12"	400	70	93	MODULATI...	3	208-1	MFR.	NF	MFR	SCR	THERMOLEC	SC	NOTES 1, ...

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR ELECTRIC HEATERS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE HEATERS DIRECTLY FROM... CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY.

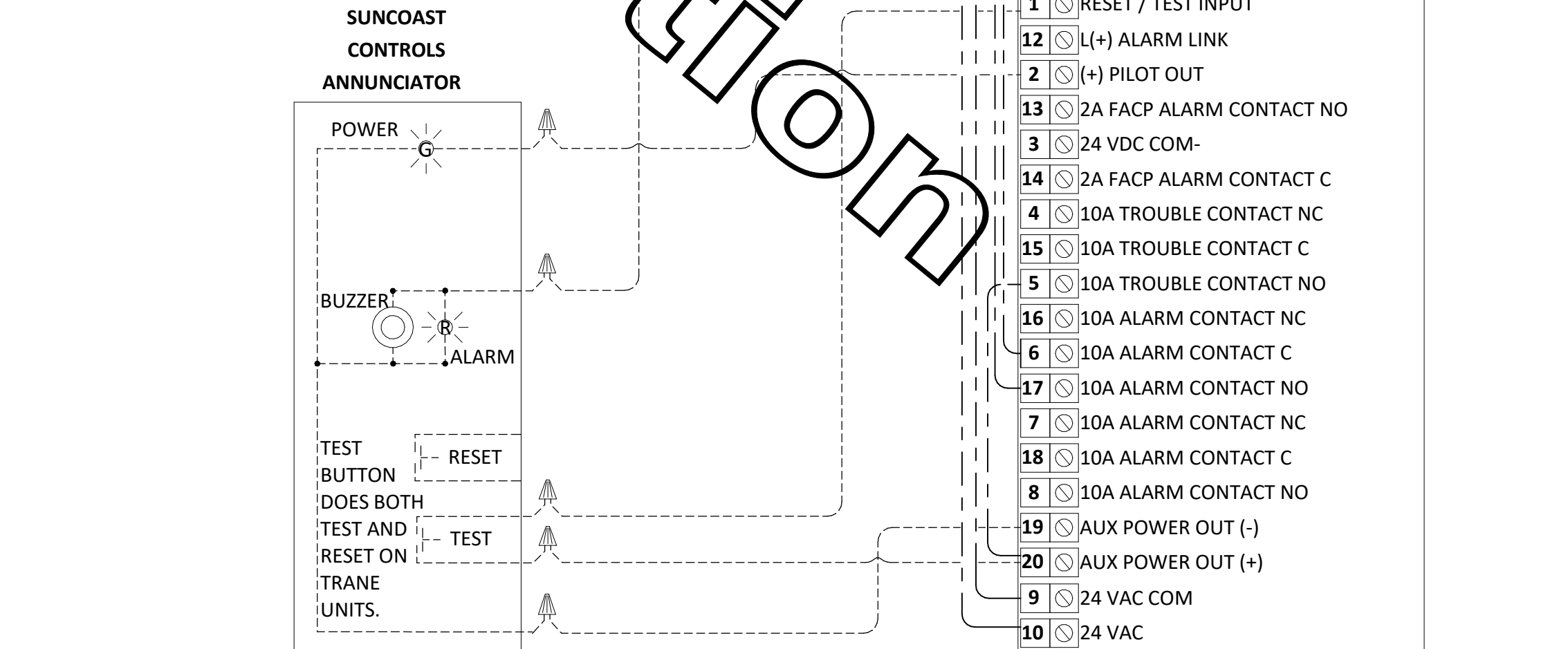
- PROVIDE WITH CONTROL BOX MOUNTED TO SIDE OF HEATER, COORDINATE OFFSET AS SHOWN ON DRAWINGS. CONTROLLER SHALL MODULATE SCR TO MAINTAIN FIXED DISCHARGE...
- DUCT HEATER SHALL HAVE INTEGRAL AIRFLOW SWITCH TO PROVE FLOW PRIOR TO HEATER OPERATION.
- REFER TO CONTROL DIAGRAM FOR SENSOR AND HEATER WIRING SCOPE.

LEGEND

18 AWG MIN WIRING BY MECH CONTRACTOR
FACTORY ANNUNCIATOR
FACTORY ANNUNCIATOR
FACTORY TRANS WIRING

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

LABELING: PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.



2 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LARGE
NOT TO SCALE



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



CHIPMAN DESIGN ARCHITECTURE GROUP PC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF WATERTOWN, NY RELATING TO STRUCTURES AND BUILDINGS.



VPH ENGINEERING SERVICES, PC
AN AFFILIATE OF IMEG CORP
623 26TH AVENUE
ROCKY HILL, IL 61101
309.788.0673
P.O. BOX 788-0687
PROJECT # 21002067.00
New York Design Firm Registration #0012979
REFERENCE SCALE IN INCHES
1" = 1'-0"

CHICK-FIL-A
WATERTOWN FSU
1920 ARSENAL STREET
WATERTOWN, NY 13601

FSR#04633
BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: 21.02

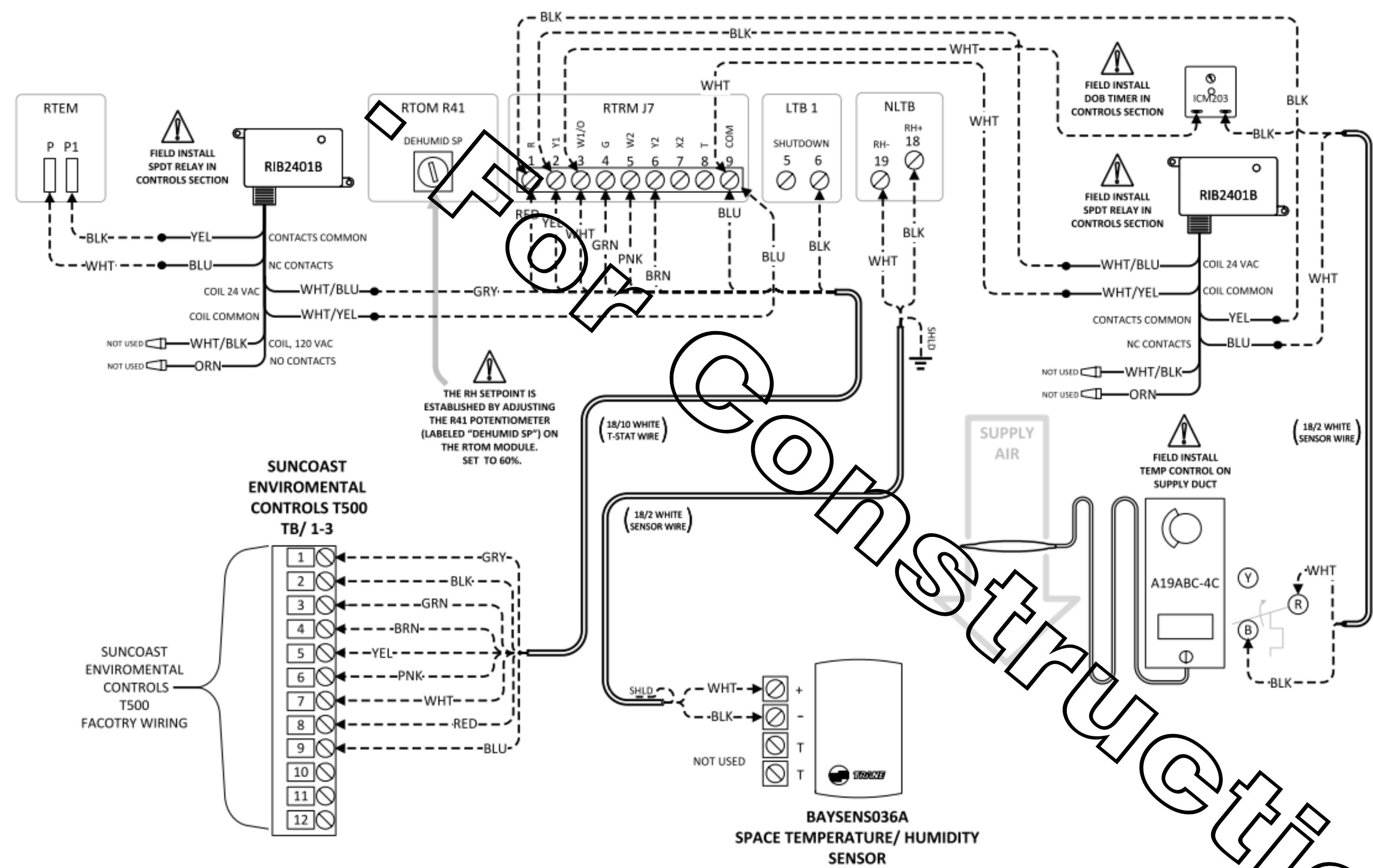
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	04/26/21	ISSUE FOR PERMIT
2	05/26/21	ISSUE FOR BID
3	8/03/21	ISSUE FOR CONSTRUCTION
4	02/11/22	RE-ISSUE FOR PERMIT
5	03/04/22	IFC: OWNER REVISIONS

CONSULTANT PROJECT # 21002067.00
PRINTED ISSUE FOR CONSTRUCTION
DATE 05/26/2021
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CHECKED BY DM
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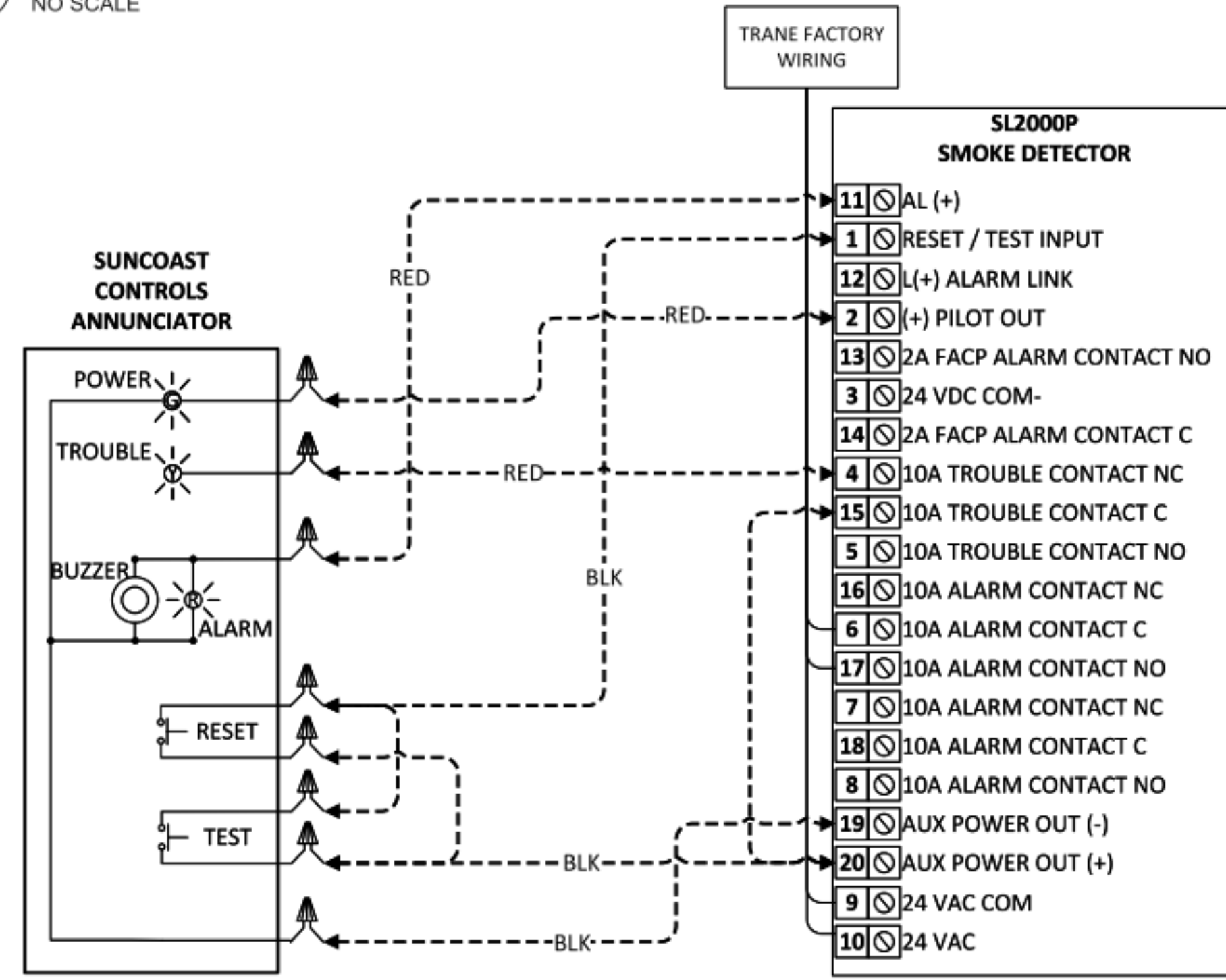
ISSUE FOR CONSTRUCTION
SHEET HVAC CONTROLS
SHEET NUMBER
M-502L

3/14/2022 1:51:31 PM BIM 360//NY_04633_Watertown_FSR_P13 SE_LRG_04633_Watertown_MEC.rvt
30-SE-04633-M-502L-HVAC CONTROLS

FOR FRESH AIR TEMPERING



2 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LARGE
NO SCALE



1 TRANE FRESH AIR TEMPERING WIRE DIAGRAM
NO SCALE

Dehumidification Sequence of Operation:
Single Compressor Units:
 On a call for dehumidification, the reheat valve is energized and the compressor is turned on. When the humidity control setpoint is satisfied, the valve is de-energized and the compressor is turned off. If there is a call for cooling or heating from the space temperature controller, i.e. zone sensor or thermostat, while in reheat, the reheat valve is de-energized and the compressor continues to run, or the heat is turned on. The three-minute compressor on and off times are still active during compressor operation.
Dual Compressor Units:
 On a call for dehumidification, the reheat valve is energized and both compressors are turned on. When the humidity control setpoint is satisfied, the valve is de-energized and both compressors are turned off. If there is a call for 1st stage cooling from the zone sensor thermostat while in the dehumidification mode, no action takes place. If there is a call for heating or 2nd stage cooling, the reheat valve is de-energized, and the unit reverts to the cooling or heating mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the reheat valve will once again be energized, and the second compressor will again be started. The three-minute compressor on and off times are still active during compressor operation. If both compressors are running, and there is a call for dehumidification, the dehumidification call is ignored and unit stays in the cooling mode. For reliability reasons, a purge time function was added to ensure that adequate oil is being returned to the compressor. During normal cooling mode or during dehumidification mode, if the unit stays in a mode for 90 continuous minutes without switching to the other mode, a three minutes purge time will initiate. If the unit has been in cooling mode for 90 minutes, the purge sequence will switch to the dehumidification.



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

CA
 CHIPMAN DESIGN
 ARCHITECTURE GROUP PC
 1350 E TOUHY AVE
 FIRST FLOOR EAST
 DES PLAINES, IL 60018
 TEL: 847.298.6900

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 623 26TH AVENUE
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CHICK-FIL-A
 WATERTOWN FSU
 1920 ARSENAL STREET
 WATERTOWN, NY 13601

FSR#04633
 BUILDING TYPE / SIZE: P13 SE LRG
 RELEASE: 21.02

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
4	02/11/22	RE-ISSUE FOR PERMIT

ISSUE FOR CONSTRUCTION
 CONSULTANT PROJECT # 21002067.00
 PRINTED ISSUE FOR CONSTRUCTION
 DATE 05/26/2021
 DRAWN BY Author
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 SHEET HVAC CONTROLS

SHEET NUMBER
 M-503L



TRANE

VICTOR.NOEL@TRANE.COM 2/1/2022

1. SECTION C15000 - 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 AND 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 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, AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND 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 NATURAL GAS FIRED HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. 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 HEAT EXCHANGERS SHALL BE STEEL WITH ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGERS SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.
- E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE CORPORATION. CONTACT TRANE TECH SUPPORT AT 866-986-4822 FOR PRICING, ORDERING AND AVAILABILITY OR BY EMAIL CFA@TRANE.COM. TRANE EQUIPMENT NOT PURCHASED THRU TRANE NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.

2.02 DUCTWORK (C15735) (SEE DWG M-301 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 INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR 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. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.
- F. 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 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- I. 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.
- J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.
- K. 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.
- L. 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-OUT DETAIL ON DRAWING M-401.
- M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE. FLEXIBLE INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THE FRANKLEX MKE.
- N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE ADOPTED FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED. USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER FACED.
- O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE CORNERS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
- Q. RADIUS ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO R=1/4 PER FIGURE NO. 4-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- R. 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 CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-8679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. 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 BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. 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. TRANE UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENTAL CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.
- 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. 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.
 - C. 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.
 - D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.
- 3.02 LEED PROJECTS
- A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.
 - B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.
 - C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.
 - D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAN FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.
 - E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 TEST & BALANCE

- A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC 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.
- B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.
- C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.
- D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...
- E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.
- F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.

NATIONAL ACCOUNTS

- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE CORPORATION. CONTACT TRANE TECH SUPPORT AT 866-986-4822 FOR PRICING, ORDERING AND AVAILABILITY OR BY EMAIL CFA@TRANE.COM
- TRANE EQUIPMENT NOT PURCHASED THRU TRANE NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
- LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
- 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.
- ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.



TEL: 847.298.6900

VP ENGINEERING SERVICES, PC
AN AFFILIATE OF IMEG CORP
623 26TH AVENUE
ROSELAND, IL 61101
309.788.0673
FAX: 309.788.0887
PROJECT # 21002067.00
New York Design Firm Registration #0052976
REFERENCE SCALE IN INCHES
0 1 2 3

CHICK-FIL-A
WATERTOWN FSU
1920 ARSENAL STREET
WATERTOWN, NY 13601

FSR#04633
BUILDING TYPE / SFRS SE ALL BUILDINGS
RELEASE: 21.02

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	04/26/21	ISSUE FOR PERMIT
2	05/26/21	ISSUE FOR BID
3	8/03/21	ISSUE FOR CONSTRUCTION
4	02/11/22	RE-ISSUE FOR PERMIT

CONSULTANT PROJECT # 21002067.00
PRINTED ISSUE FOR CONSTRUCTION
DATE 05/26/2021
DRAWN BY KB
CHECKED BY DM
Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.
SHEET MECHANICAL SPECIFICATIONS
SHEET NUMBER
M-901

3/4/2022 1:51:31 PM BIM 360://NY_04633_Watertown_FSR_P13_SE_LR/G/04633_Watertown_MEC.rvt 30-SE-04633-M-901-MECHANICAL SPECIFICATIONS

Construction - For Construction

MODEL: KVL-2

FACTORY MADE BY ORDER OF ANY SPECIAL REQUIREMENTS OF THE CUSTOMER MUST BE INDICATED AT THE TIME OF ORDER

STANDARD FEATURES

- S.S. FILTERS (KSA) 4
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET FAN DAMPER *
- STAND-OFF *
- L.E.D. LIGHTS 3

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED W/O EXHAUST DAMPER *
- CEILING CLOSURE STD BACKSPLASH 2
- INSULATED BACKSPLASH *
- XBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

- CLOSURE HEIGHT - TBD (TWO SIDES)
- CLOSURE HEIGHT - ADVISE CEILING CLOSURE RECEIVED 1" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 3" REAR ACCESS DOOR OR LEFT SIDE ACCESS TO CAPTURE-JET W/ FRONT CLOSURE CONTINUOUS CAPTURE INTERNAL RIGHT END OUTLET
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL

EQUIPMENT COVERED

- PRESSURE FRYSERS (1) SILEN
- ANNUAL WEIGHT - 65 LBS HOOD WEIGHT - 600 LBS

DATE: 04.26.21 **DWG. NO.:** U21-317-01 **ITEM NO.:** H-1L **EXHAUST AIR INFORMATION:** CFM 1080 **TAB:** 13' **SP:** 24'

PROJECT: CHICK-FIL-A #4633 **WATERTOWN, NY** **CAPTURE AIR INFORMATION:** CFM 72

LOCATION: WATERTOWN, NY

SUBMITTED BY: HALTON CO.

NSF

MODEL: KVL-2

FACTORY MADE BY ORDER OF ANY SPECIAL REQUIREMENTS OF THE CUSTOMER MUST BE INDICATED AT THE TIME OF ORDER

STANDARD FEATURES

- S.S. FILTERS (KSA) 3
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET FAN DAMPER *
- STAND-OFF *
- L.E.D. LIGHTS 2

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED W/O EXHAUST DAMPER *
- CEILING CLOSURE STD BACKSPLASH 2
- INSULATED BACKSPLASH *
- XBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

- CLOSURE HEIGHT - TBD (TWO SIDES)
- CLOSURE HEIGHT - ADVISE CEILING CLOSURE RECEIVED 1" FROM FRONT TO CREATE SHELF
- 3" REAR ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET W/ FRONT CLOSURE CONTINUOUS CAPTURE INTERNAL LEFT END OUTLET
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL

EQUIPMENT COVERED

- PRESSURE FRYSERS (1) SILEN
- HOOD WEIGHT - 465 LBS

DATE: 04.26.21 **DWG. NO.:** U21-317-01 **ITEM NO.:** H-1R **EXHAUST AIR INFORMATION:** CFM 832 **TAB:** 13' **SP:** 23'

PROJECT: CHICK-FIL-A #4633 **WATERTOWN, NY** **CAPTURE AIR INFORMATION:** CFM 55

LOCATION: WATERTOWN, NY

SUBMITTED BY: HALTON CO.

NSF

MODEL: KVL-C

FACTORY MADE BY ORDER OF ANY SPECIAL REQUIREMENTS OF THE CUSTOMER MUST BE INDICATED AT THE TIME OF ORDER

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET FAN DAMPER *
- STAND-OFF *
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED W/O EXHAUST DAMPER *
- CEILING CLOSURE STD BACKSPLASH 2
- INSULATED BACKSPLASH *
- XBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

- CLOSURE HEIGHT - TBD (TWO SIDES)
- CLOSURE HEIGHT - ADVISE CEILING CLOSURE RECEIVED 1" FROM FRONT TO CREATE SHELF
- 3" REAR ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CLOSURE CONTINUOUS CAPTURE INTERNAL RIGHT END OUTLET
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL

EQUIPMENT COVERED

- PRESSURE FRYSERS (1) SILEN
- HOOD WEIGHT - 280 LBS

DATE: 04.26.21 **DWG. NO.:** U21-317-01 **ITEM NO.:** H-2 **EXHAUST AIR INFORMATION:** CFM 701 **TAB:** 13' **SP:** 30'

PROJECT: CHICK-FIL-A #4633 **WATERTOWN, NY** **CAPTURE AIR INFORMATION:** CFM 30

LOCATION: WATERTOWN, NY

SUBMITTED BY: HALTON CO.

NSF

MODEL: KVL-C

FACTORY MADE BY ORDER OF ANY SPECIAL REQUIREMENTS OF THE CUSTOMER MUST BE INDICATED AT THE TIME OF ORDER

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET FAN DAMPER *
- STAND-OFF *
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED W/O EXHAUST DAMPER *
- CEILING CLOSURE STD BACKSPLASH 2
- INSULATED BACKSPLASH *
- XBD DAMPER *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

- CLOSURE HEIGHT - TBD (TWO SIDES)
- CLOSURE HEIGHT - ADVISE CEILING CLOSURE RECEIVED 1" FROM FRONT TO CREATE SHELF
- 3" REAR ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CLOSURE CONTINUOUS CAPTURE INTERNAL LEFT END OUTLET
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED RIGHT END PANEL

EQUIPMENT COVERED

- PRESSURE FRYSERS (1) SILEN
- HOOD WEIGHT - 240 LBS

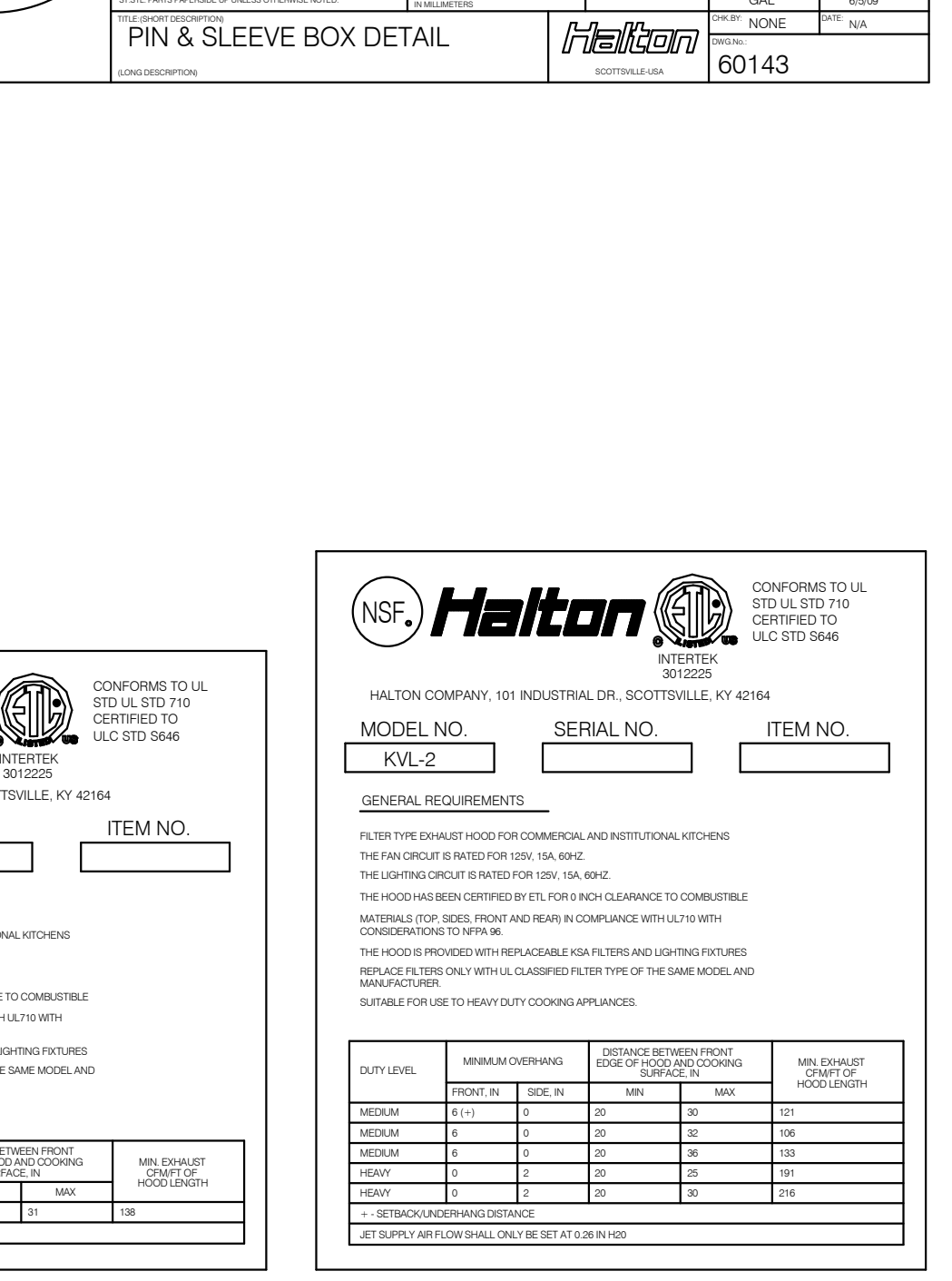
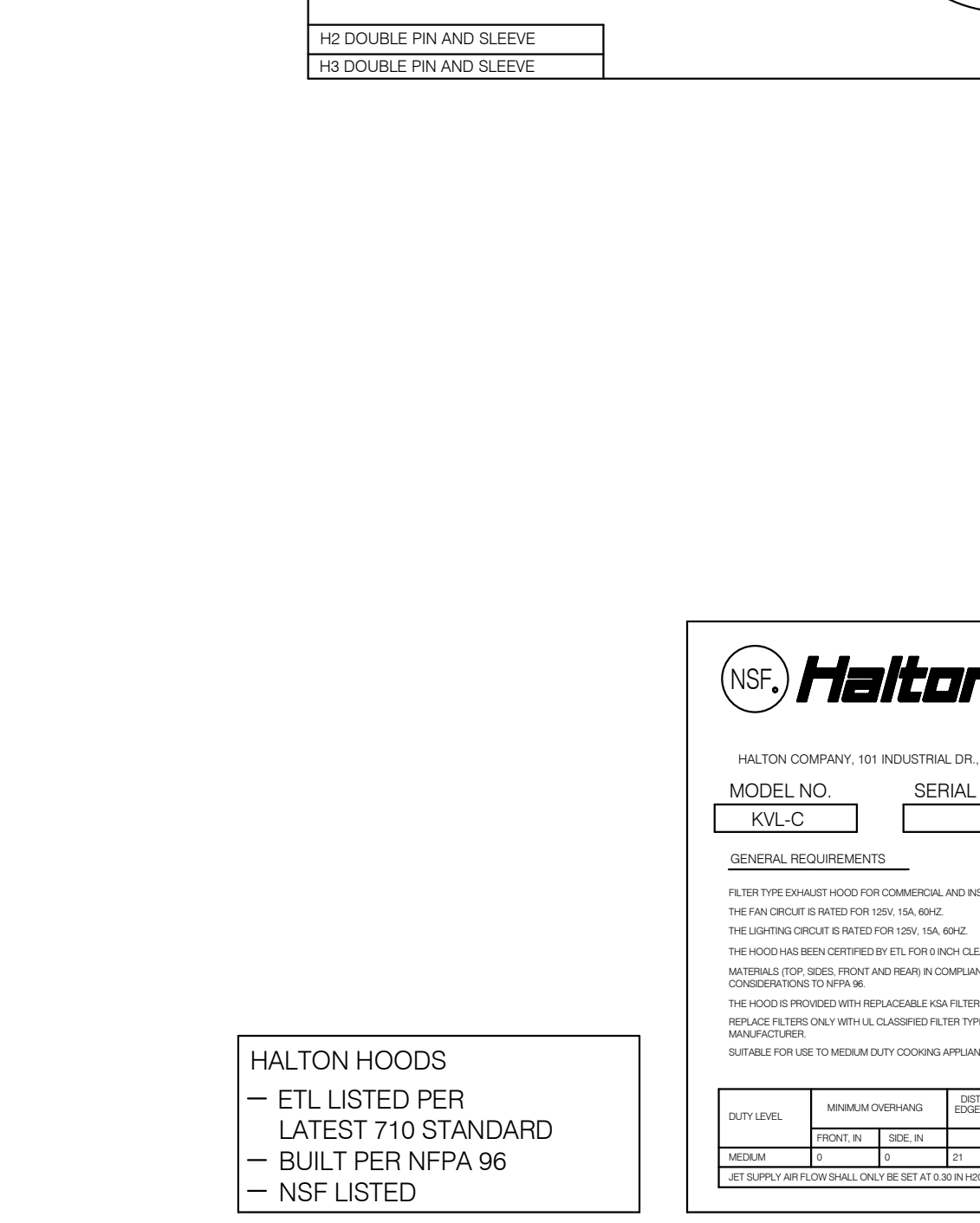
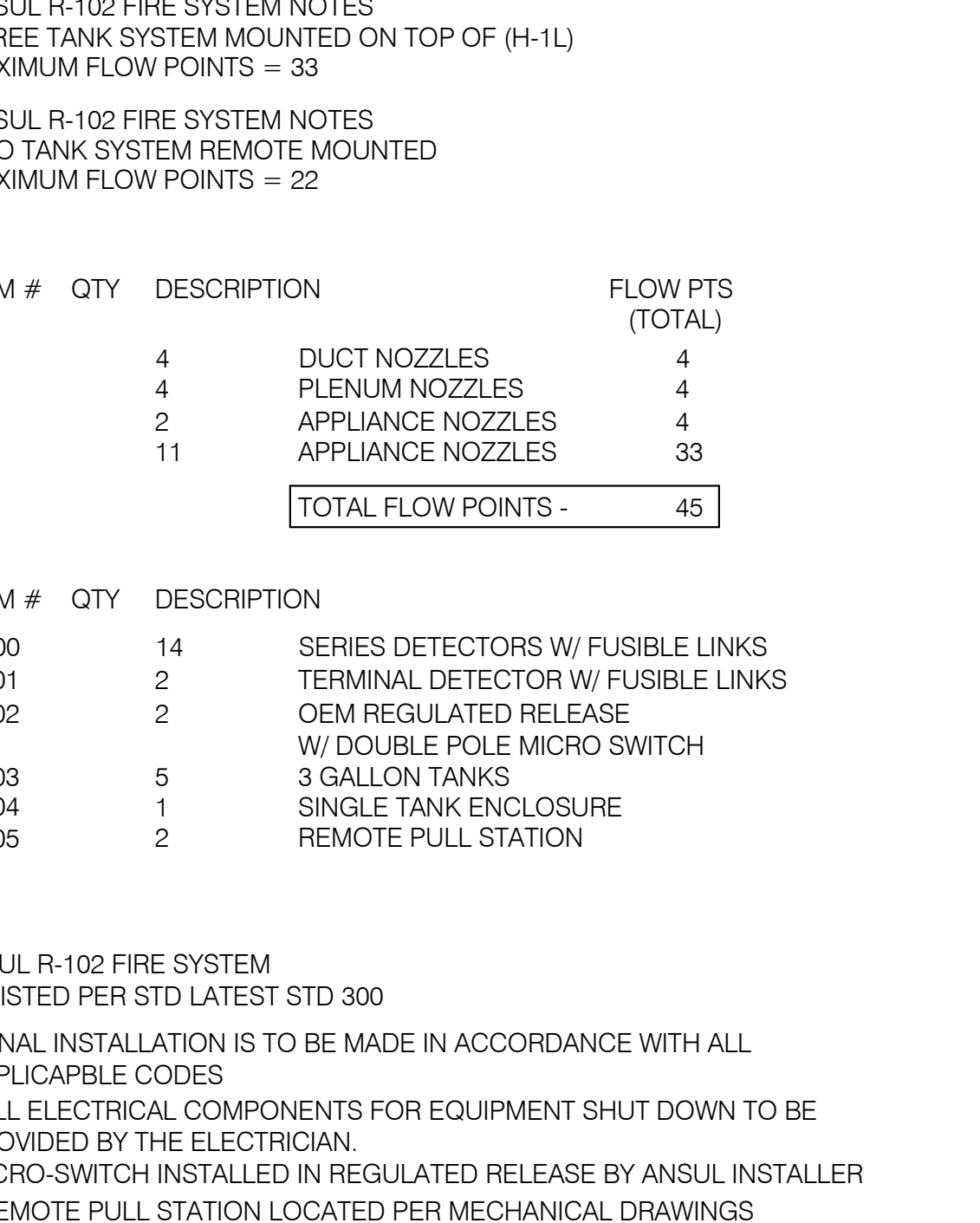
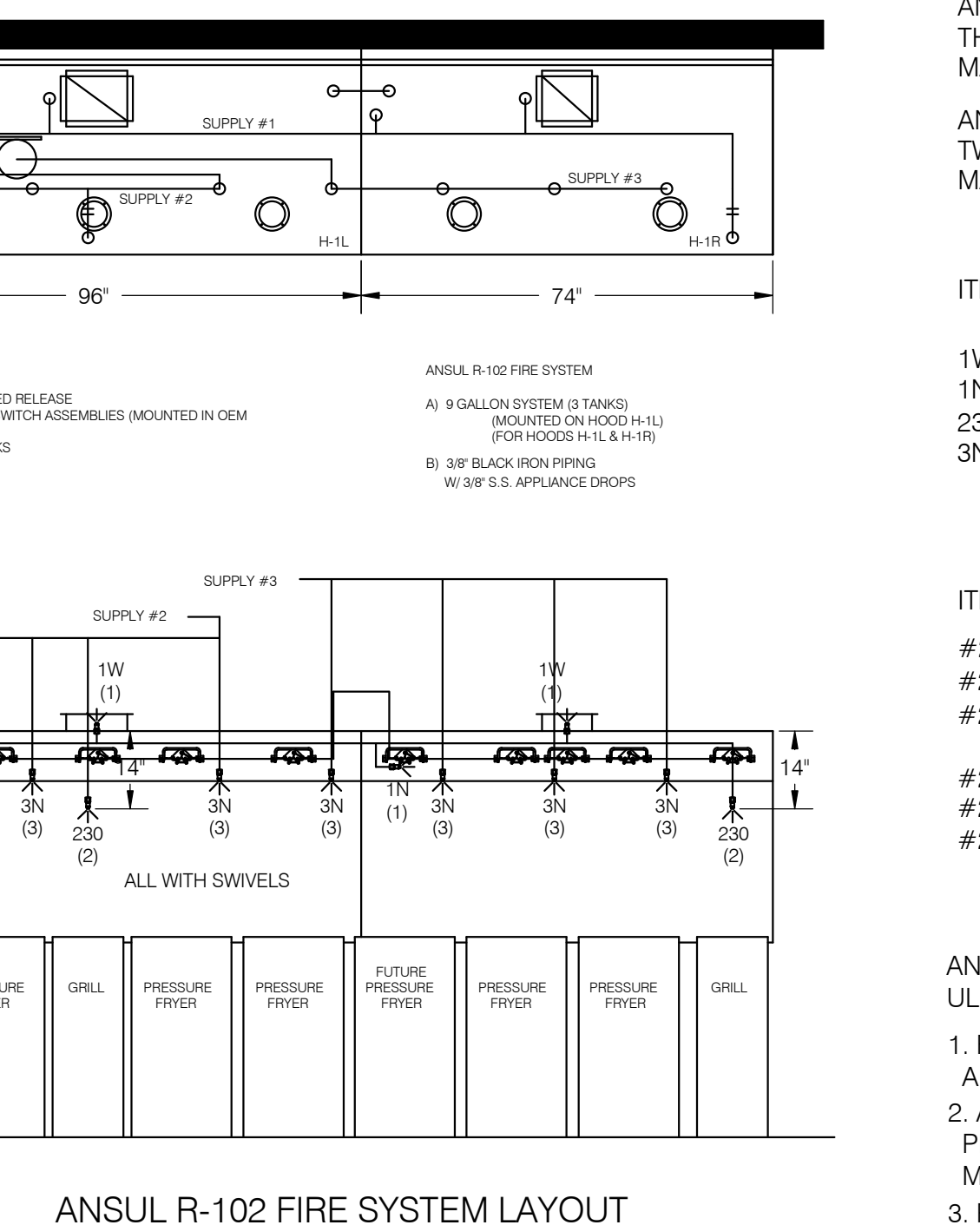
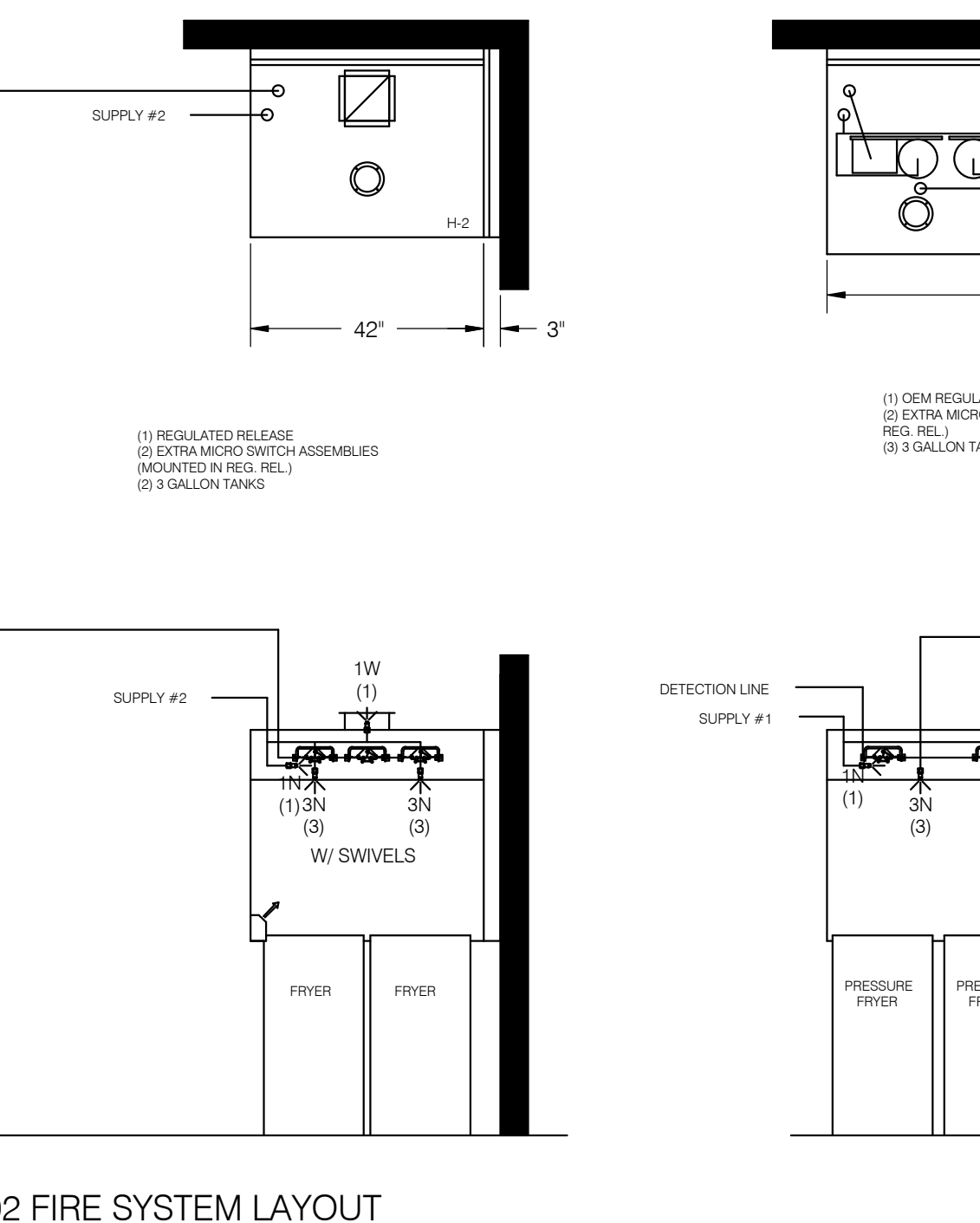
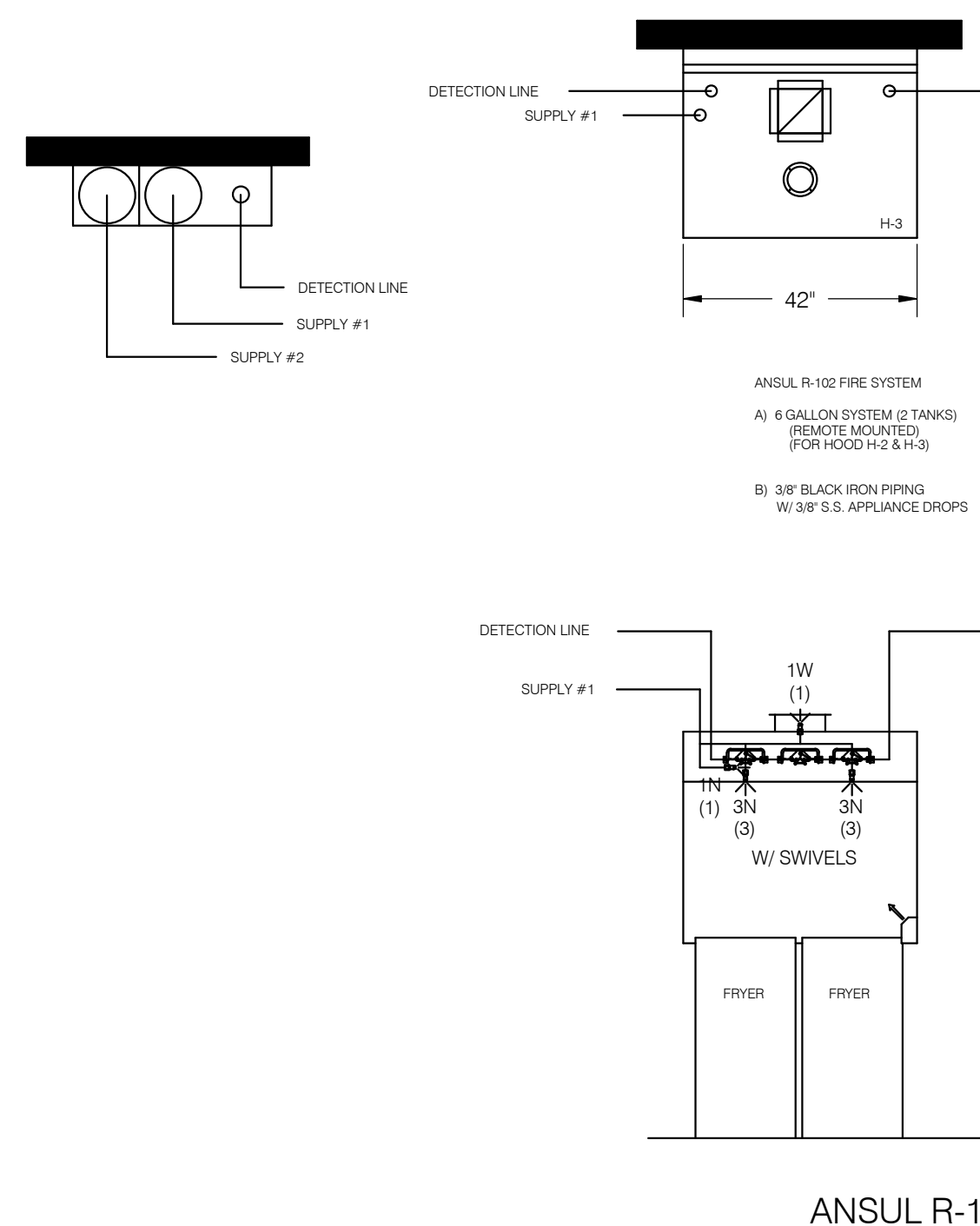
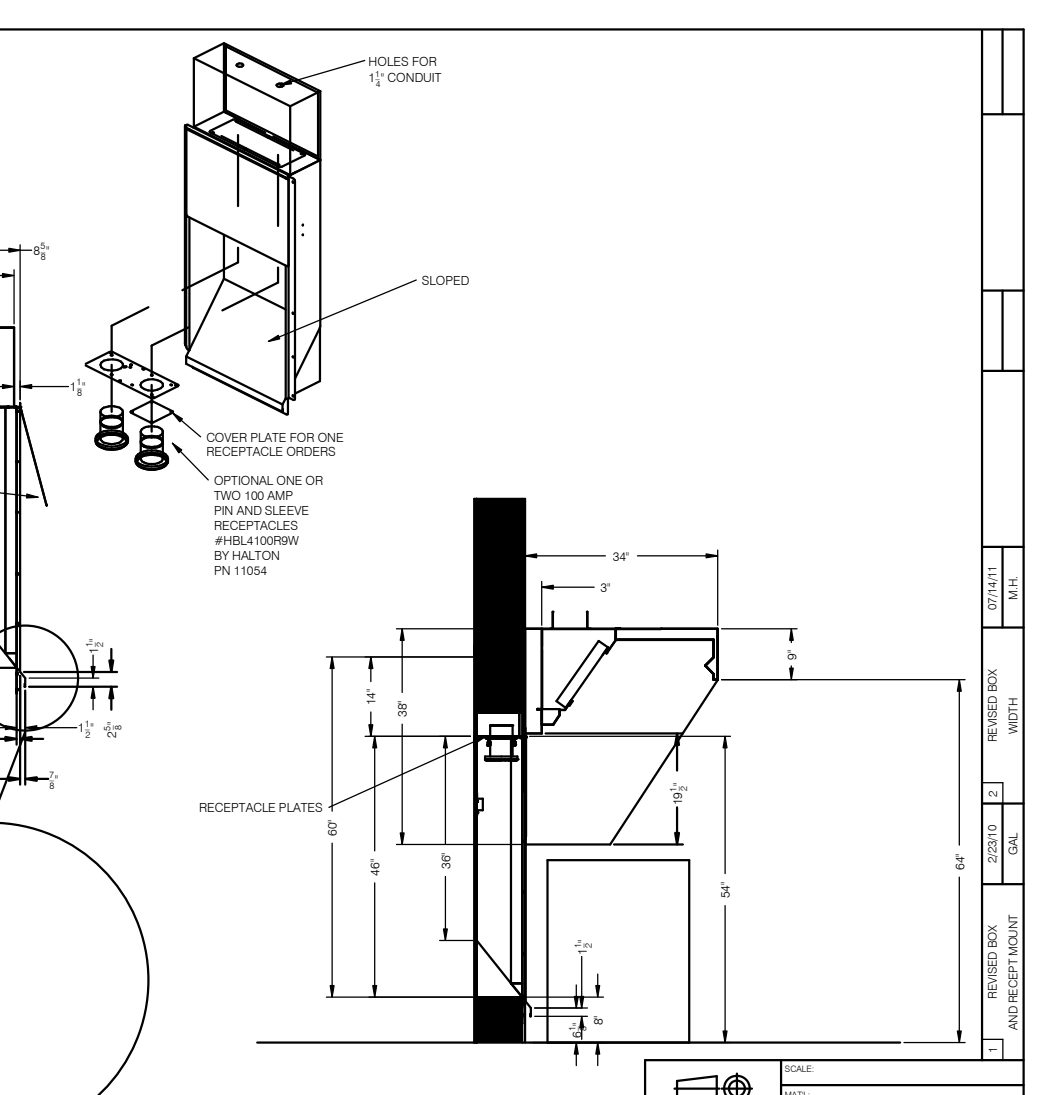
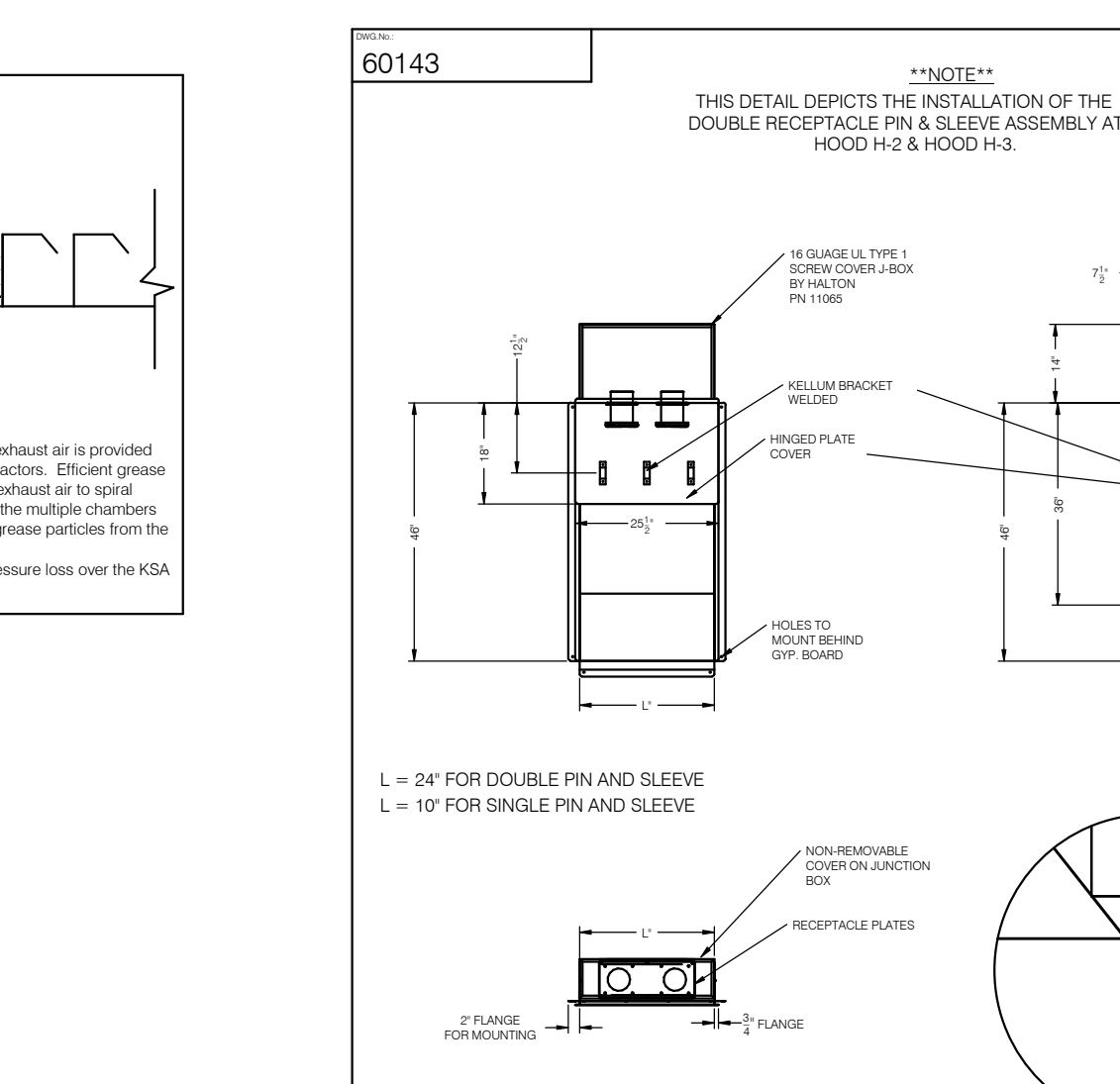
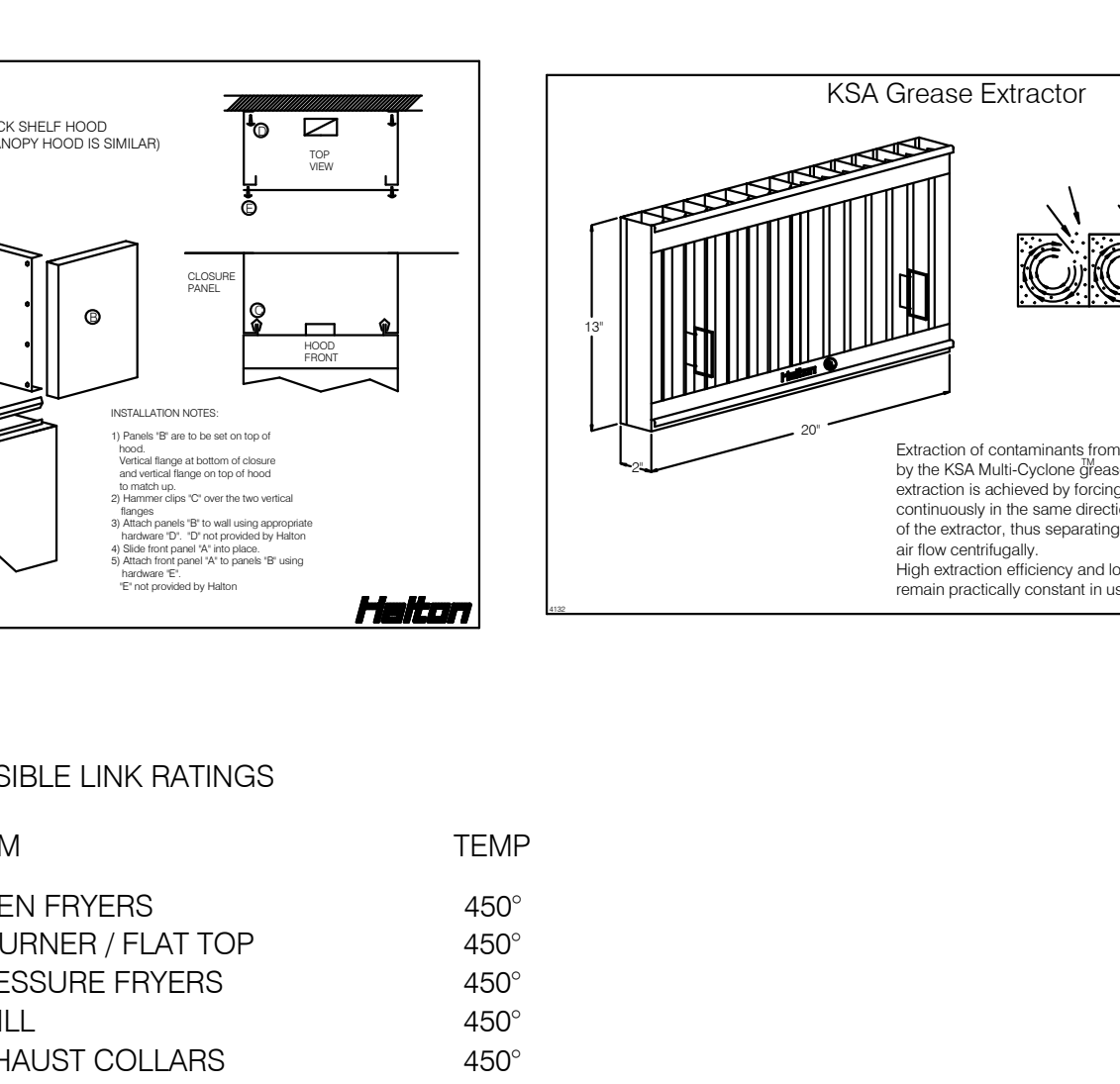
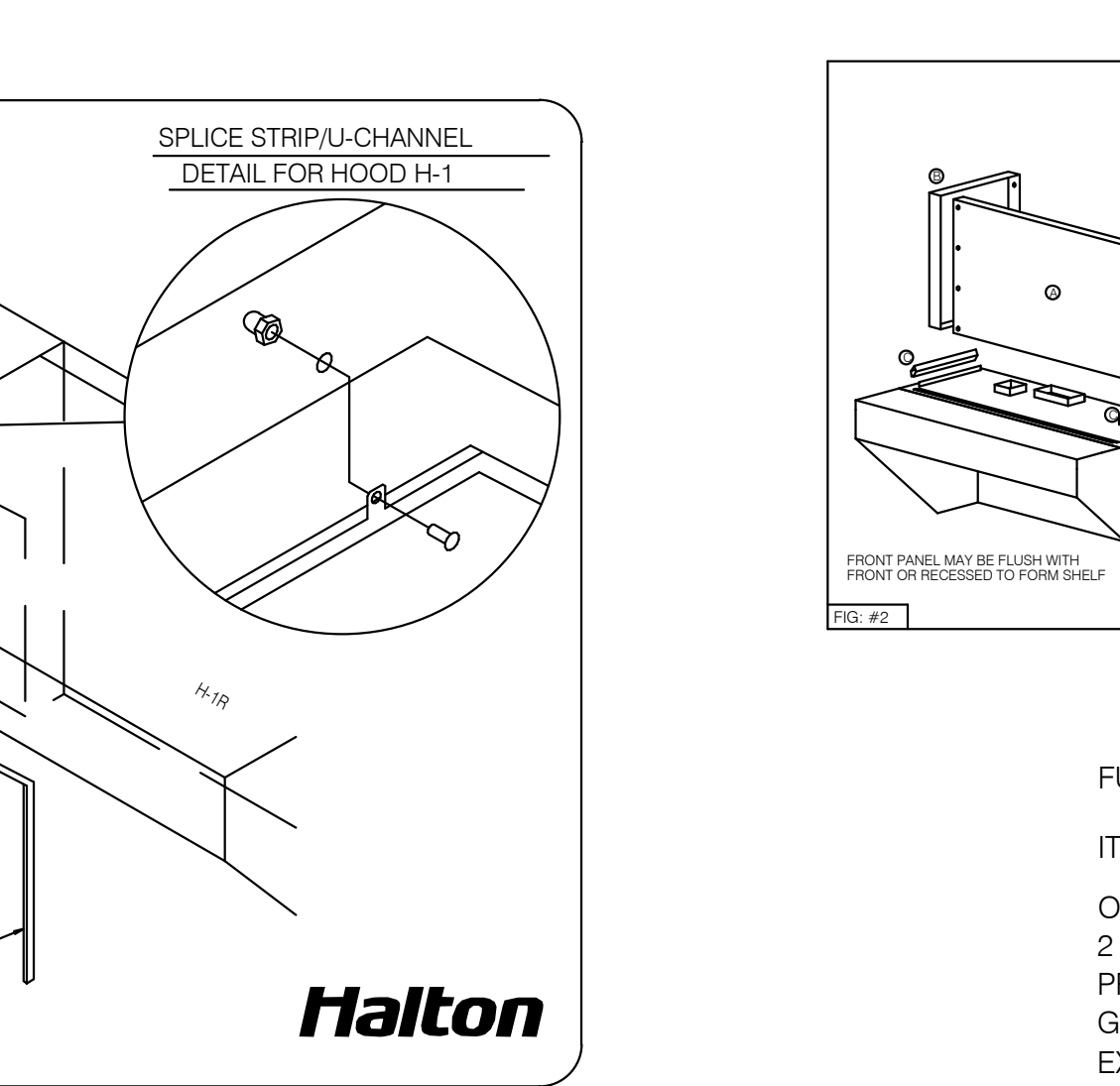
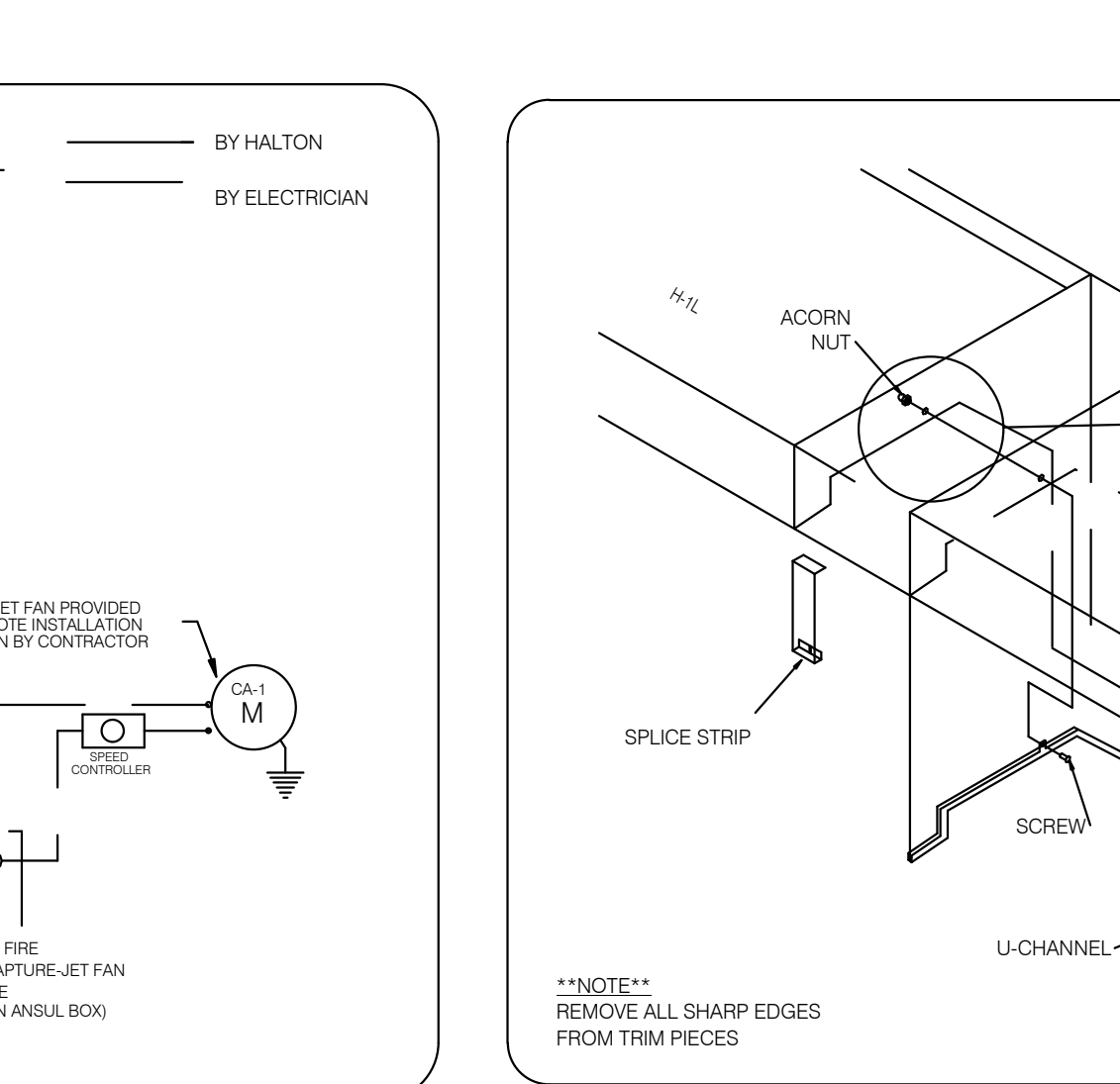
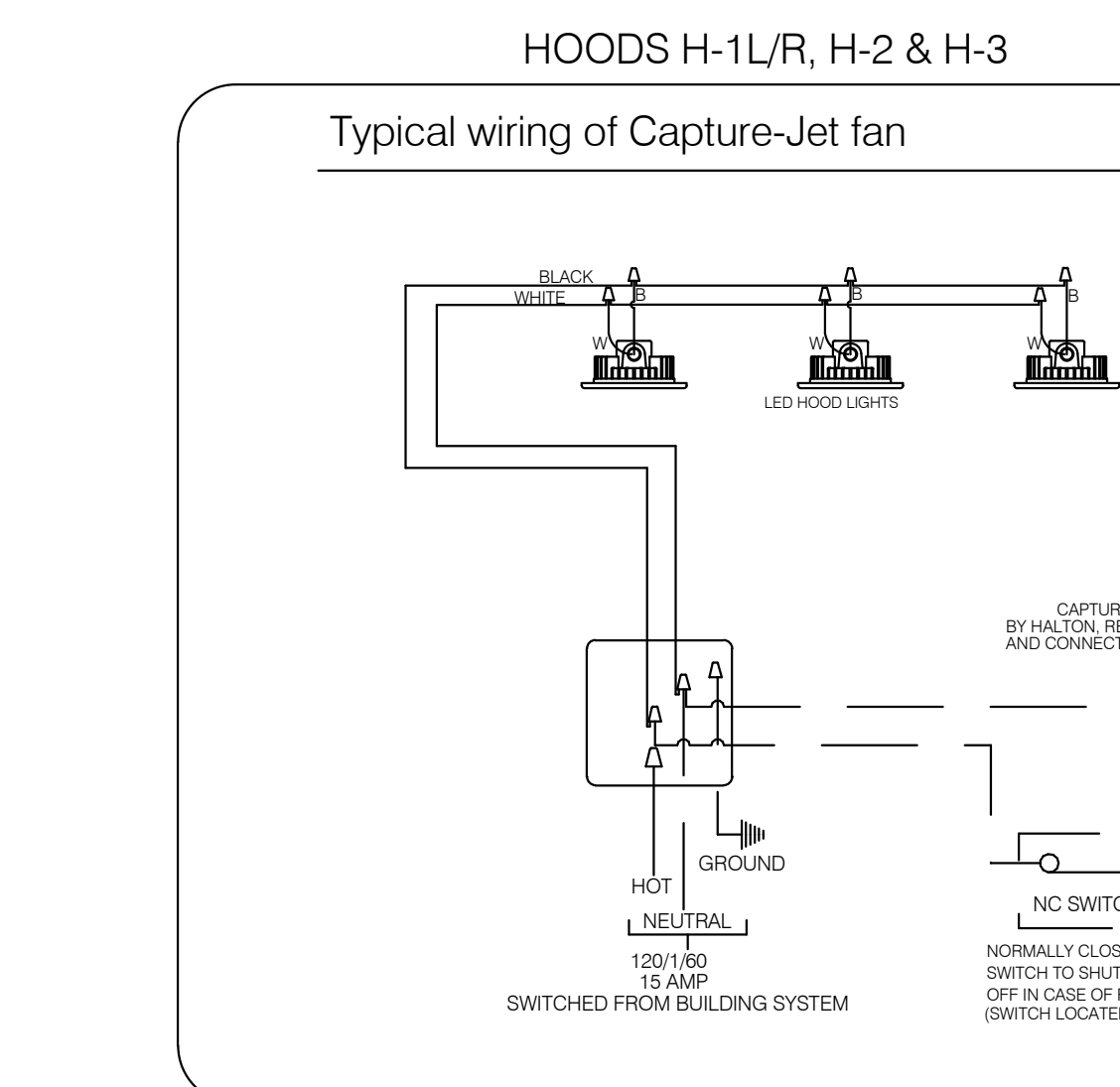
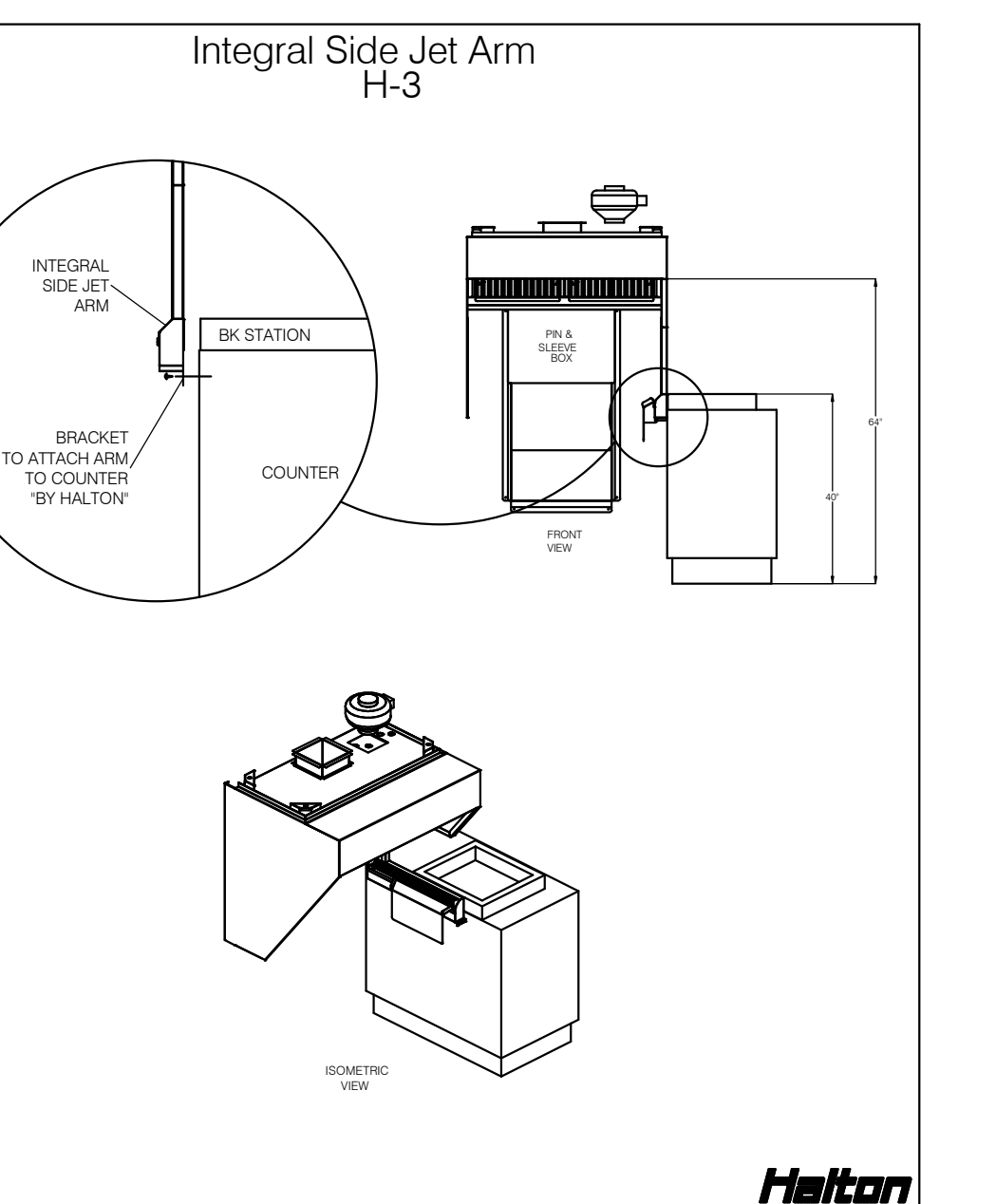
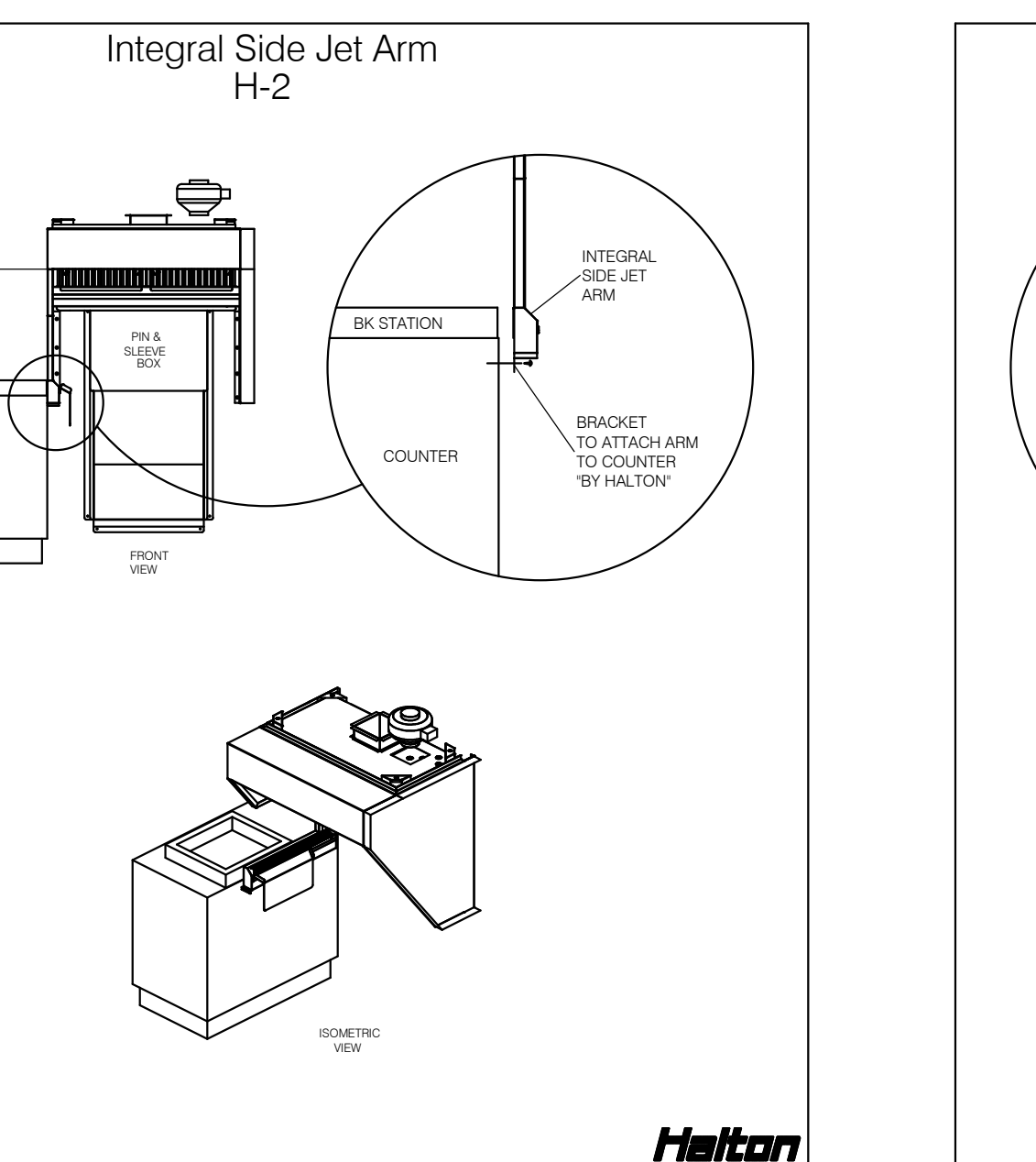
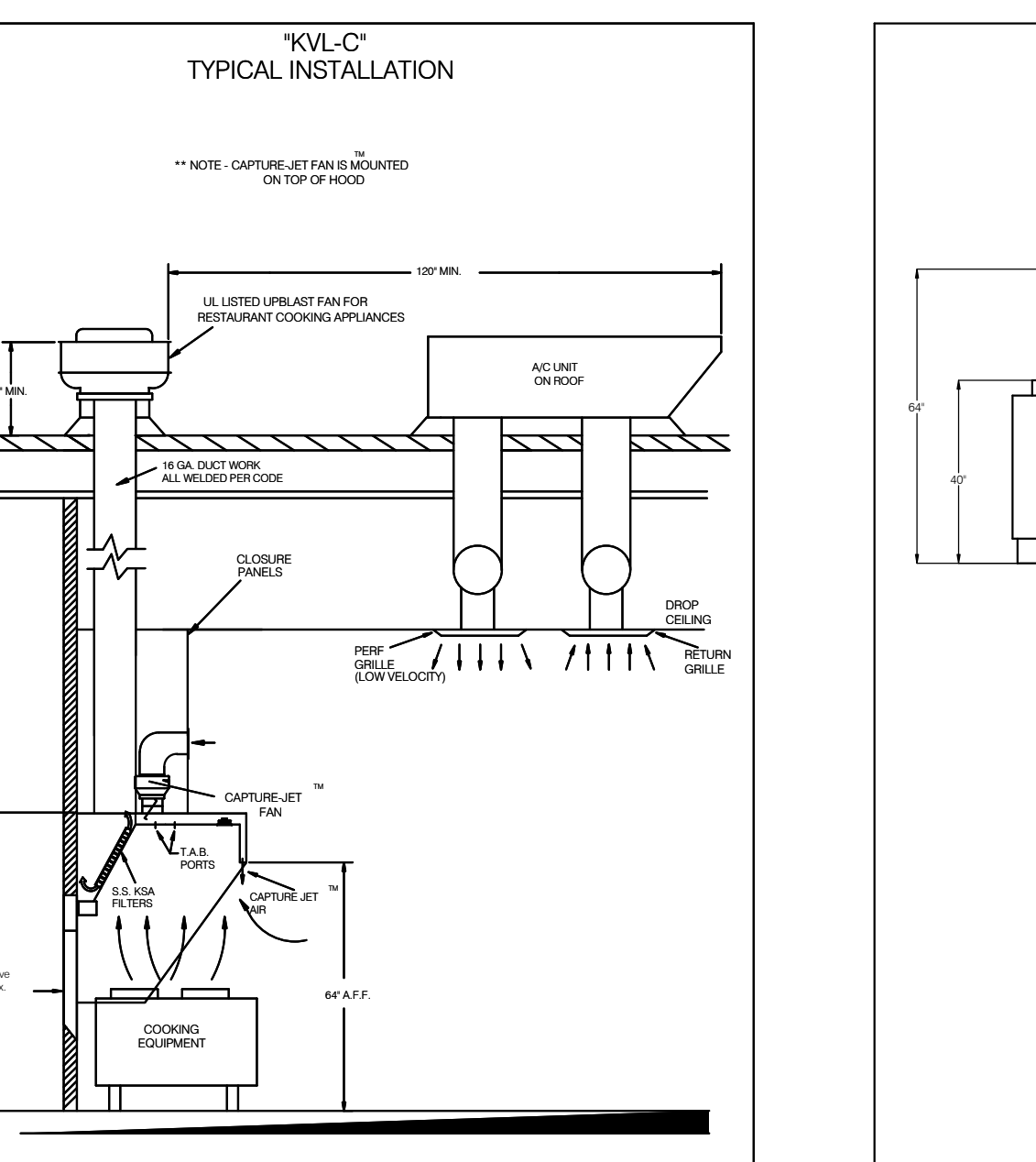
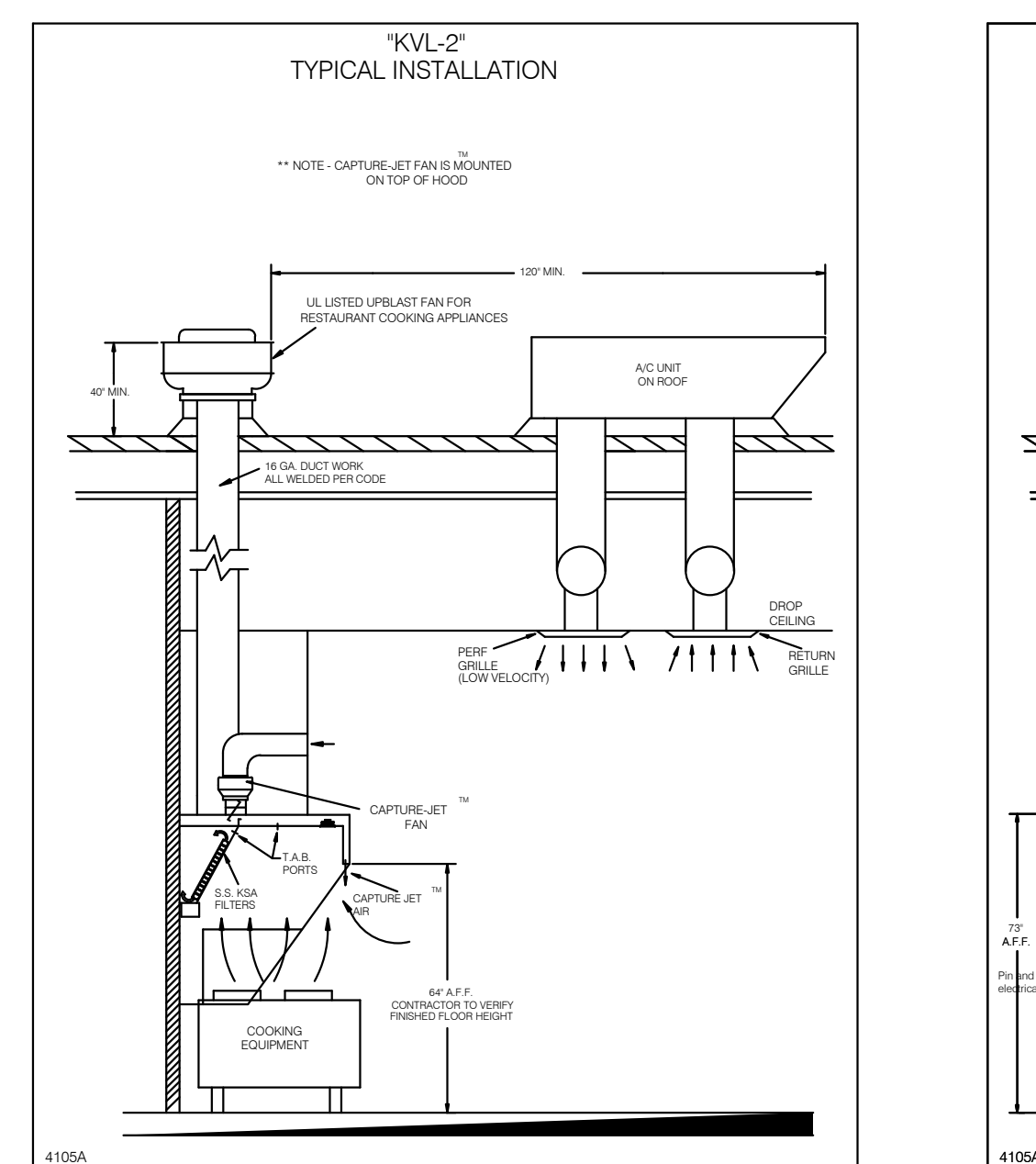
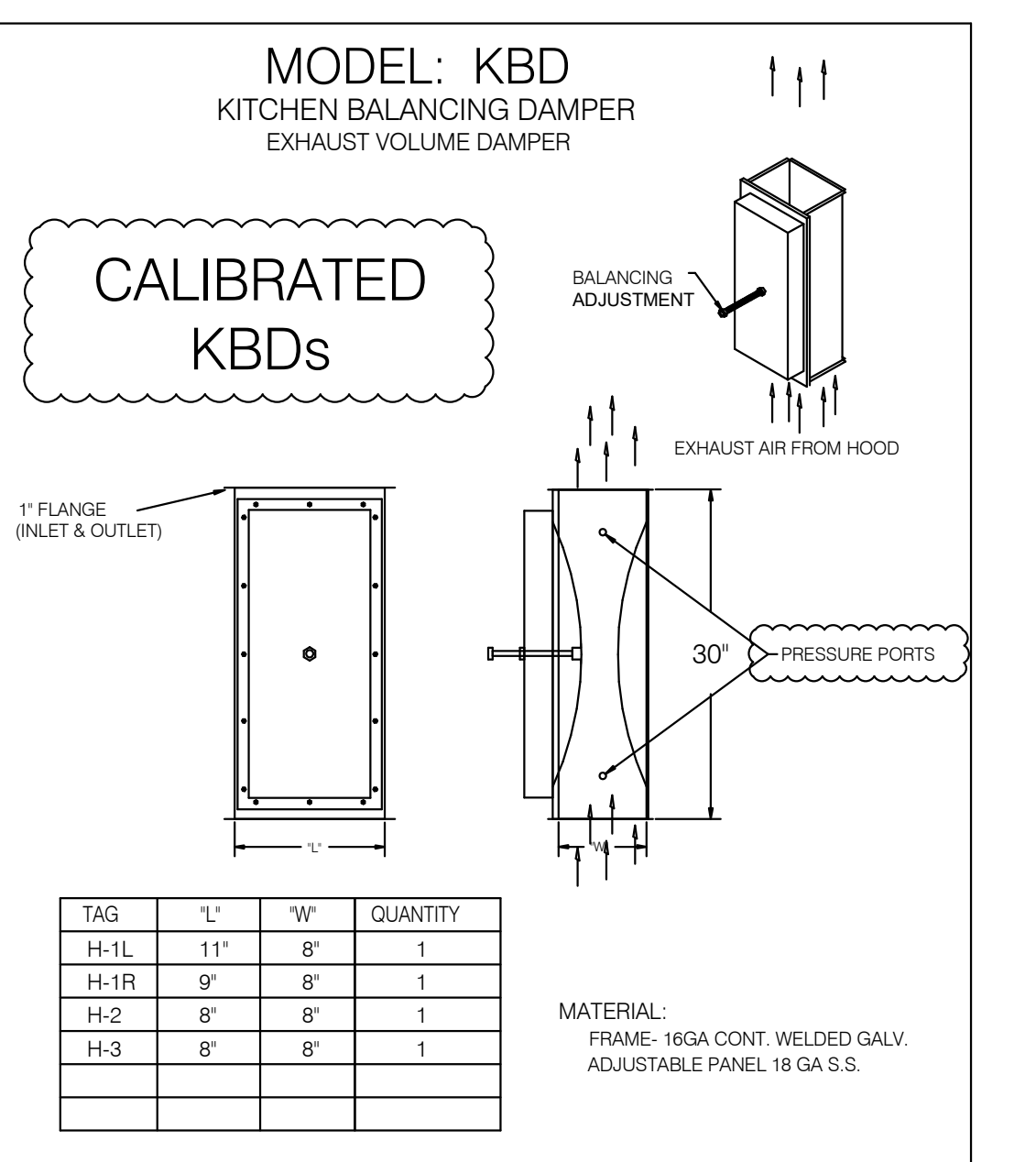
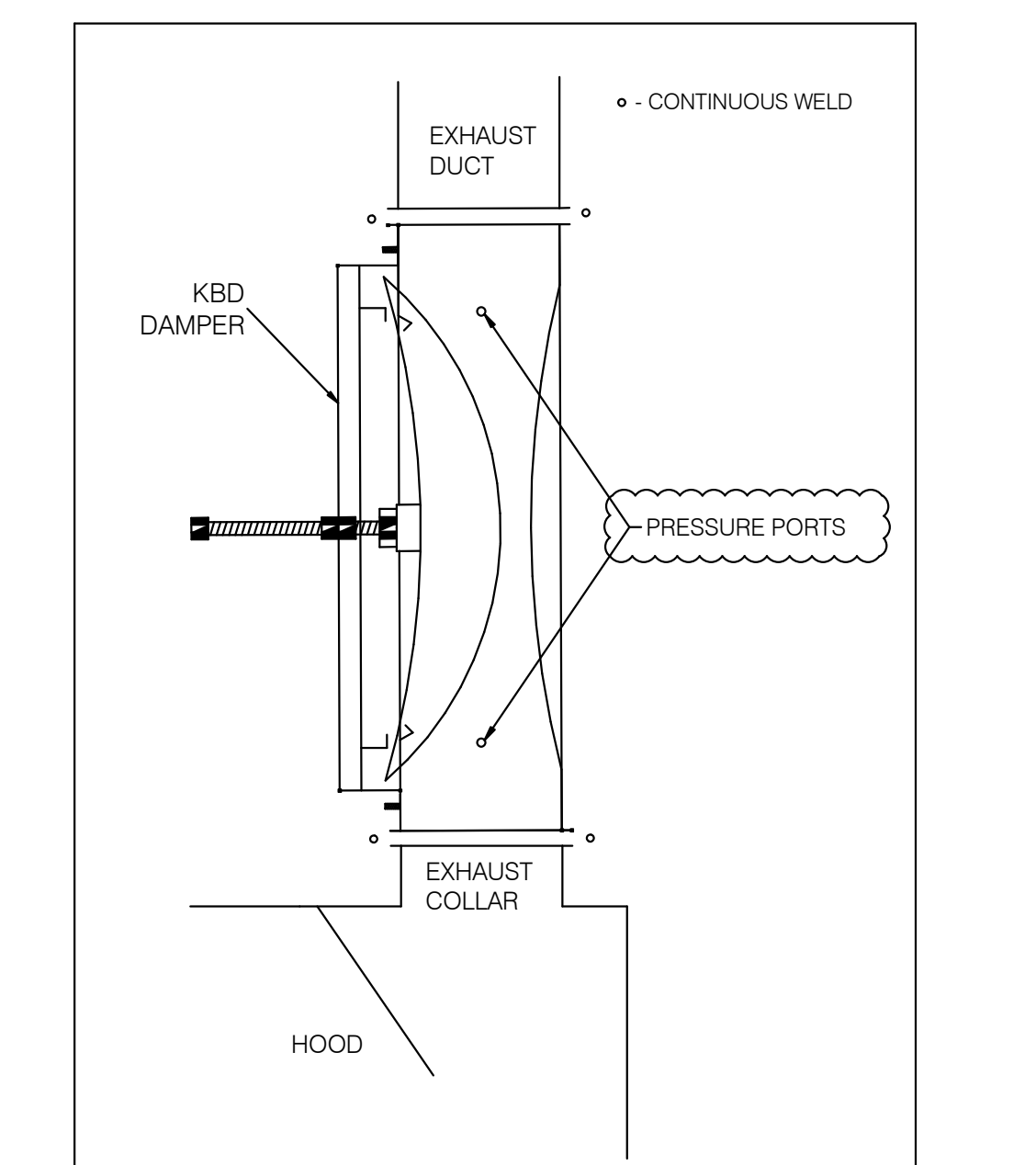
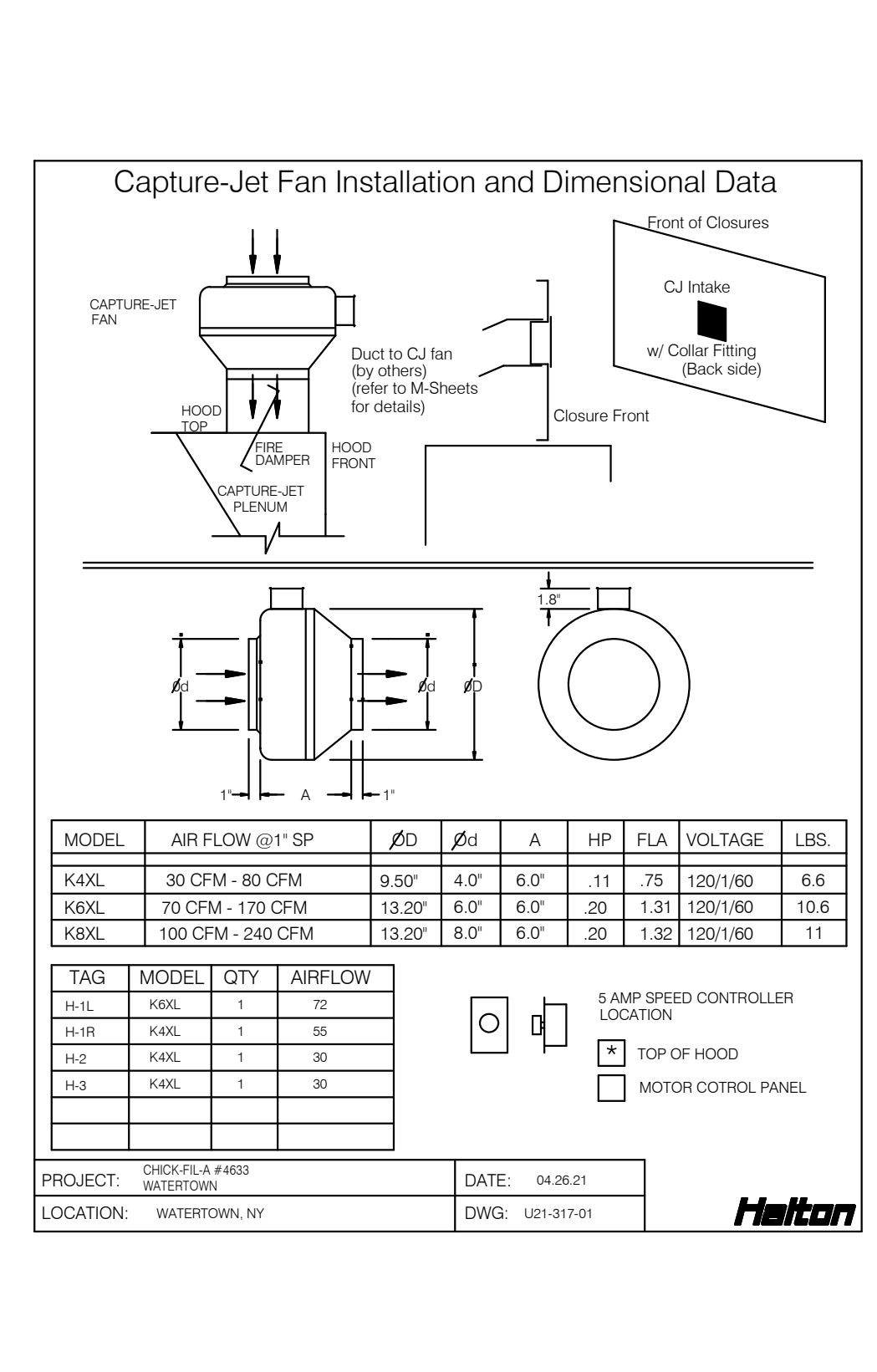
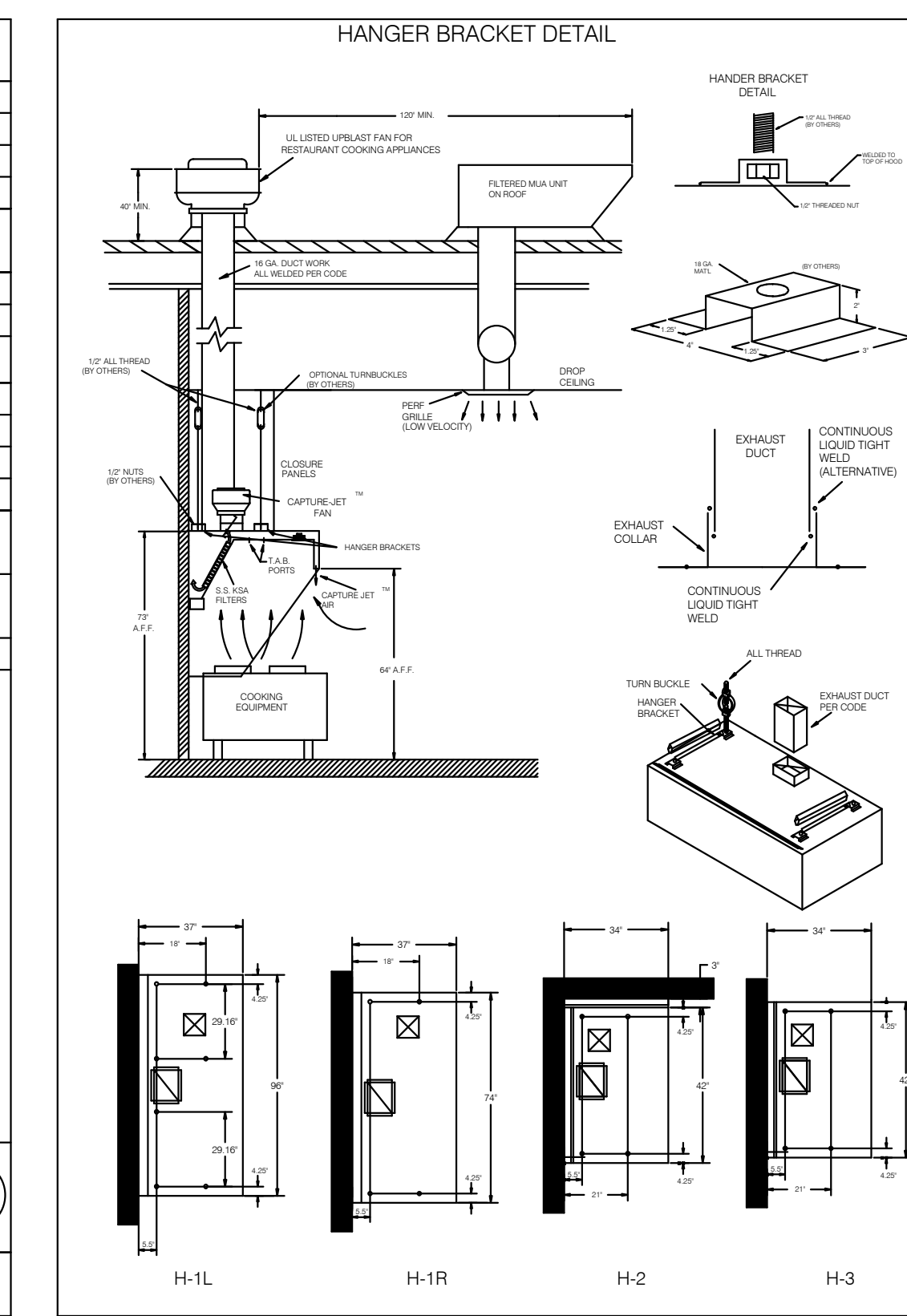
DATE: 04.26.21 **DWG. NO.:** U21-317-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM 701 **TAB:** 13' **SP:** 30'

PROJECT: CHICK-FIL-A #4633 **WATERTOWN, NY** **CAPTURE AIR INFORMATION:** CFM 30

LOCATION: WATERTOWN, NY

SUBMITTED BY: HALTON CO.

NSF



HALTON HOODS

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

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0001

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

PROJECT: **CHICK-FIL-A** SN# 04633
LOCATION: **WATERTOWN FSU**
DRAWN BY: NTS DATE: 05/26/2021
SCALE: NTS

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

Sheet **MH-101**

Scale: **1/8" = 1'-0"**

Project: **CHICK-FIL-A**

Location: **WATERTOWN FSU**

Drawn By: **NTS**

Date: **05/26/2021**

Scale: **1/8" = 1'-0"**

Sheet: **MH-101**

