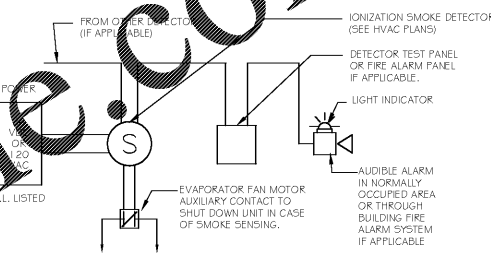
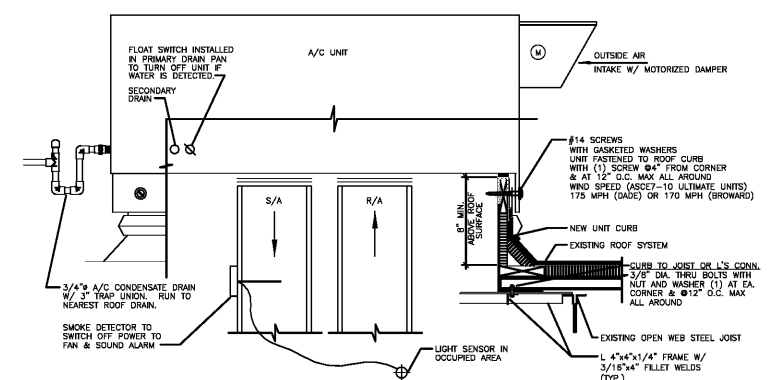


FBC TABLE 1509.7 CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS (INCHES)	
WIDTH OF UNIT	MINIMUM CLEARANCE ABOVE ROOF SURFACE
< 24	14
24 < 36	18
36 < 48	24
48 < 60	30
> 60	48



A/C DUCT SMOKE DETECTOR

O/A AIR CALCULATIONS	
SPACE A CALCULATIONS PER FBC 2017, 6TH EDITION, TABLE 403.3 (SPACE A REQ'D) 7.5 CFM/PERSON, AREA = 2,200 SQ. FT., MAX. NO. OF PERSONS 36 CUSTOMERS, 4 EMPLOYEES AIR FLOW RATE = 0.18 CFM/SQ. FT CFM = (7.5 x 40) + (2200 x 0.18) = 300 + 396 = 696 CFM PROVIDE 300 CFM THROUGH RTU #1A + 400 CFM THROUGH RTU #2A.	
SPACE B CFM = (7.5 x 1000/1000 X 70) + (11000 x 0.18) = 525 + 180 = 705 CFM PROVIDE 705 CFM THROUGH RTU #B.	
SPACE C CFM = (15 x 2100/1000 X 7.5) + (2100 x 12) = 536 + 252 = 788 CFM PROVIDE 500 CFM THROUGH RTU #C.	

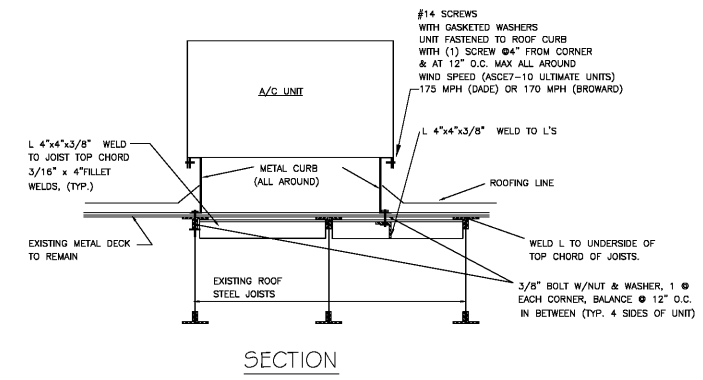


MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

EXHAUST FAN SCHEDULE									
MARK	CFM	SP	RPM	HP	WIND SPEED (FPM)	WIND SPEED (MPH)	ACCESS	MANUFACTURER AND MODEL NO.	REMARKS
EFA-1	300	-	1550	1/20	115/1000	115	X	GREENHECK G-080	BACKDRAFT DAMPER, PROVIDE ROOF CURB

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR	*	
FIRE DAMPER(S)		*
SMOKE DAMPER(S)		*
FIRE RATED ENCLOSURE		*
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		*
FIRE STOPPING		*
SMOKE CONTROL		*

A/C SCHEDULE										NOTE: ALL DUCTWORK BY TENANT.			
UNIT	MANUF. MODEL	TONS	SUPPLY AIR (CFM)	E.S.P. (IN. WG.)	HEATING (KW)	M.C.A.	M.O.C.P.	COOLING CAP. S/T BTUH @ 95° & 67° W	OUTSIDE AIR (CFM)	DIMENSIONS W x L x H (IN.)	OPERATING WEIGHT (LB)	ELECT. (VOLTS/PHASE)	EER
RTU #A1&B	TRANE WHCD92H34W	7.5	3000	1.0	10	50	60	74,700	500/B-1 705	54 x 87 x 47	829	240-208/3/60	11.8
RTU #A2&C	TRANE WHC120H34W	10	4000	1.0	15	60	70	96,300	500/ C-1 500	63 x 99 x 51	1228	240-208/3/60	11.5



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SCALE:
 DRAWN BY:
 DATE: 8/14/20
 NO. DATE

REVISION:

PROJECT LOCATION:
 ESTEL FLAZA
 2890-2894 WEST BROWARD BLVD
 FT LAUDERDALE, FLORIDA 33312

SHEET TITLE:
 MECHANICAL PLAN

SHEET NO.:
 M-1.0

JOB NO.:
 2020-002

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