

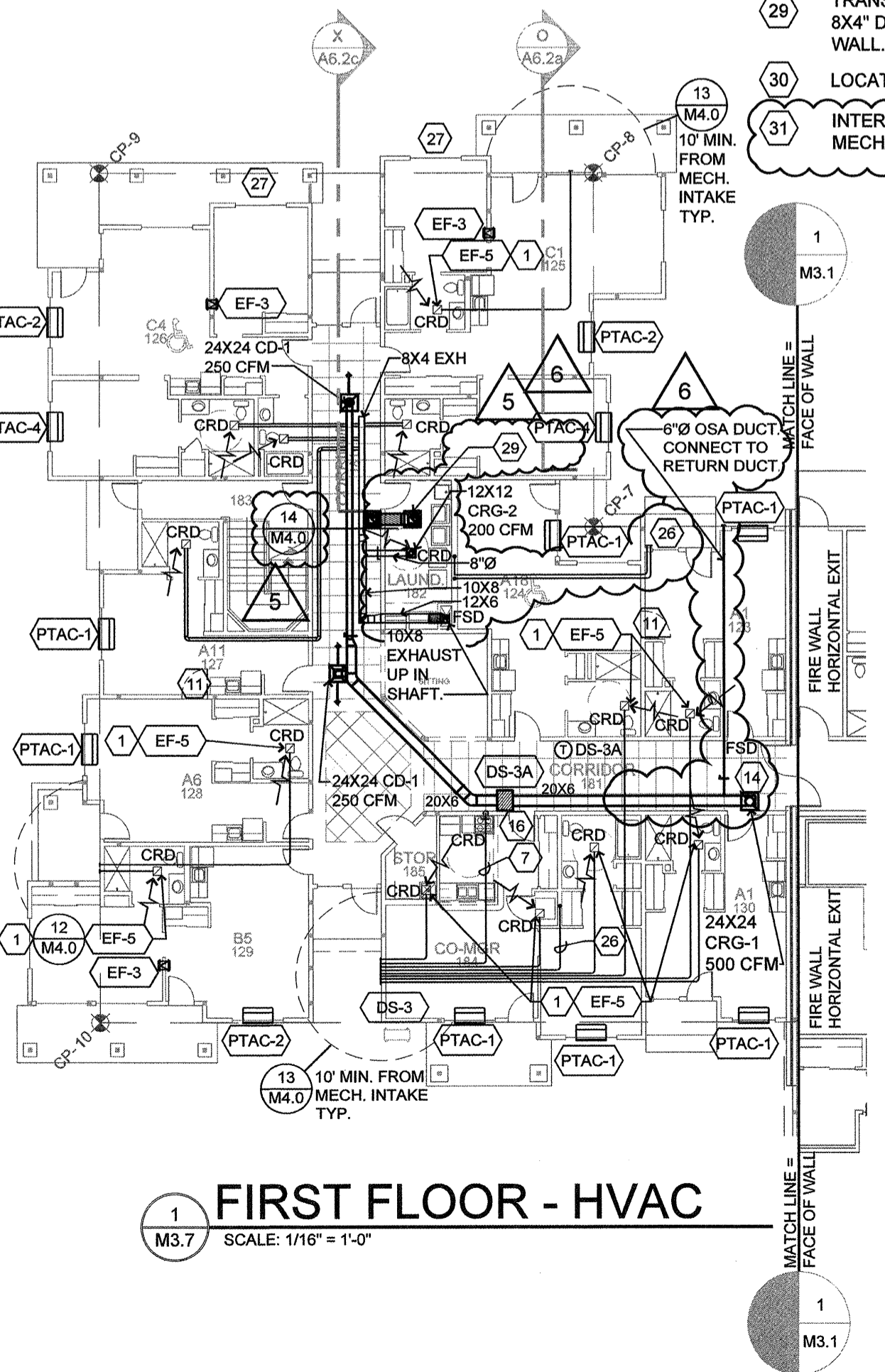
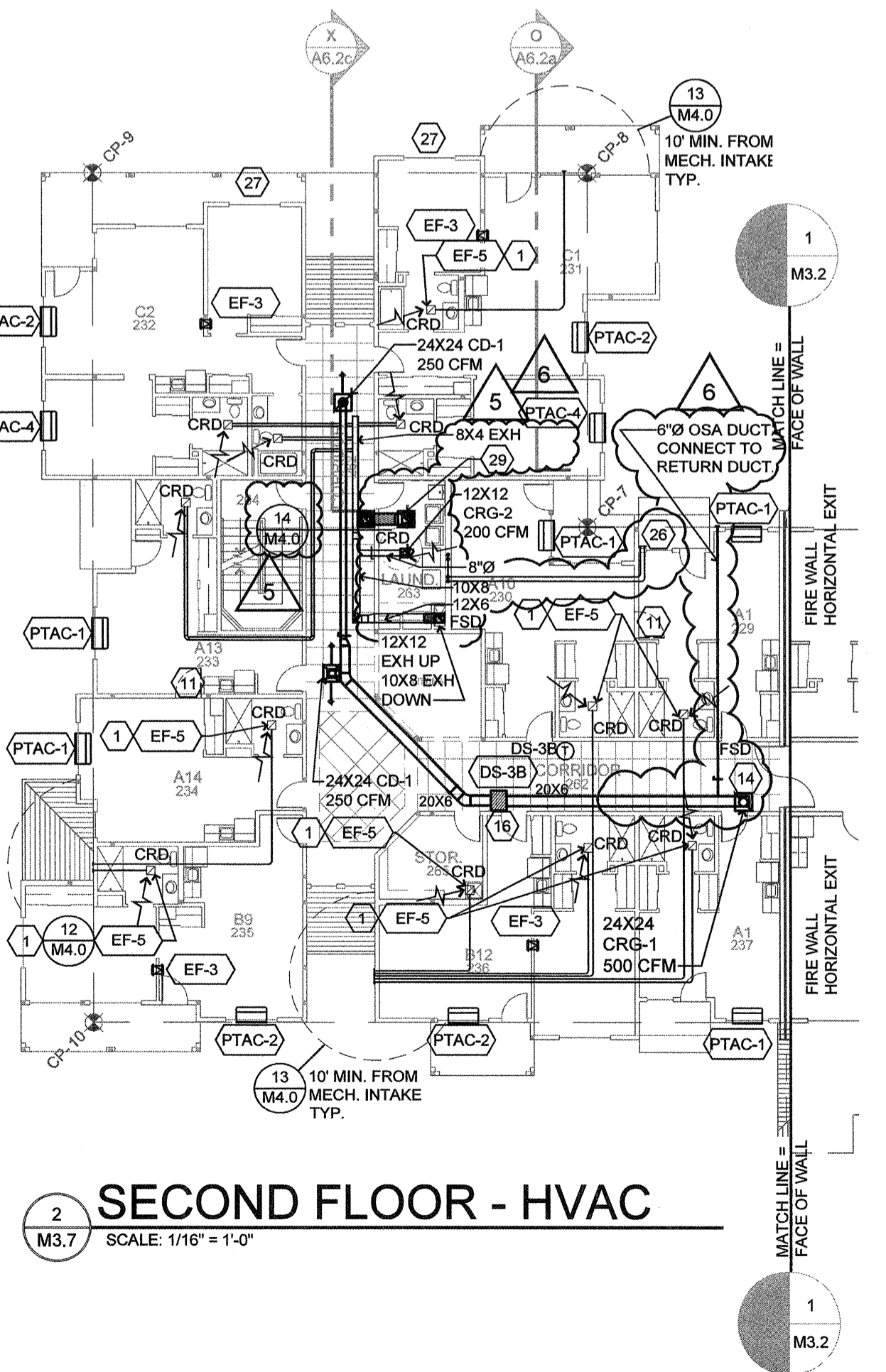
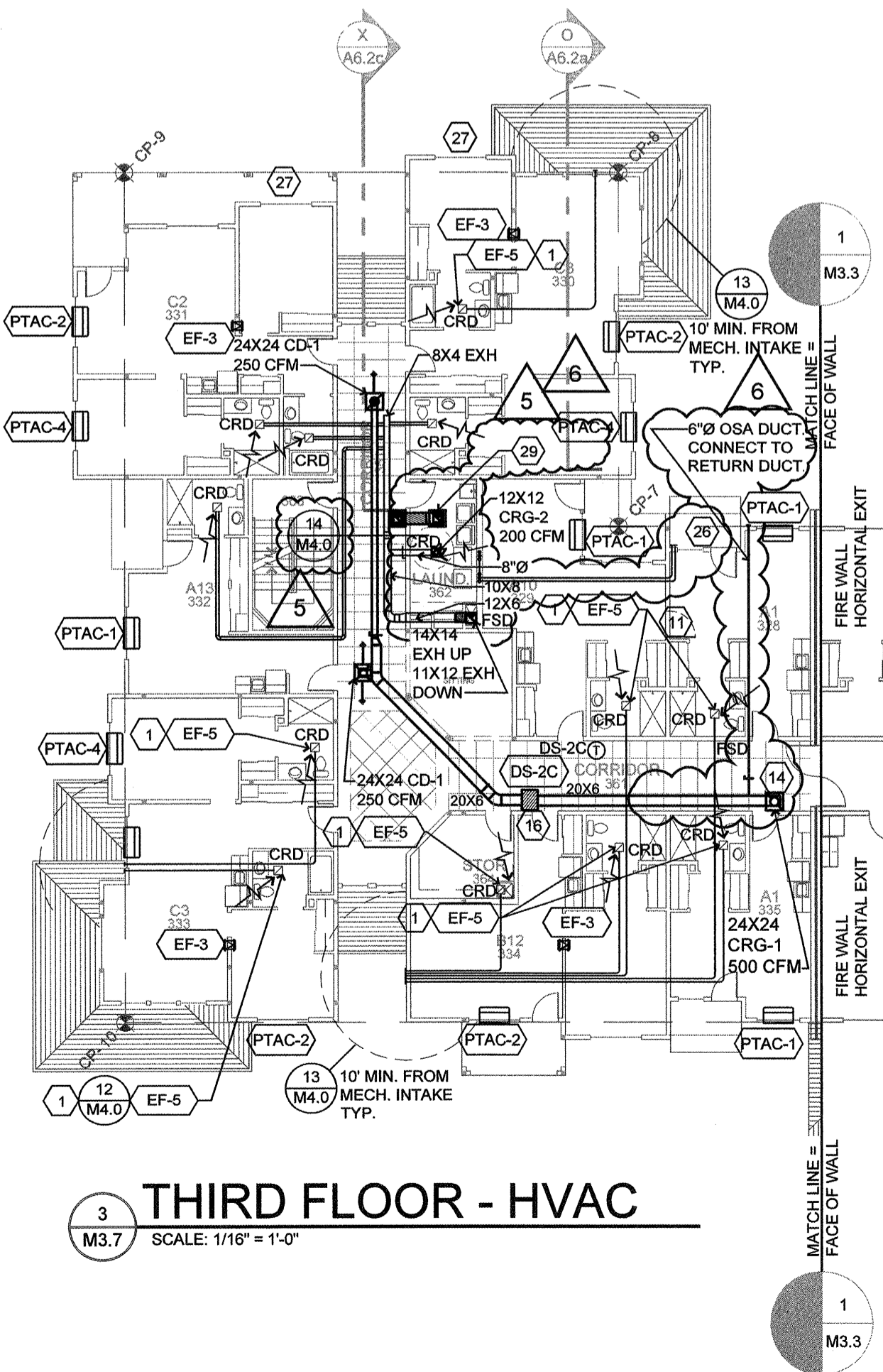
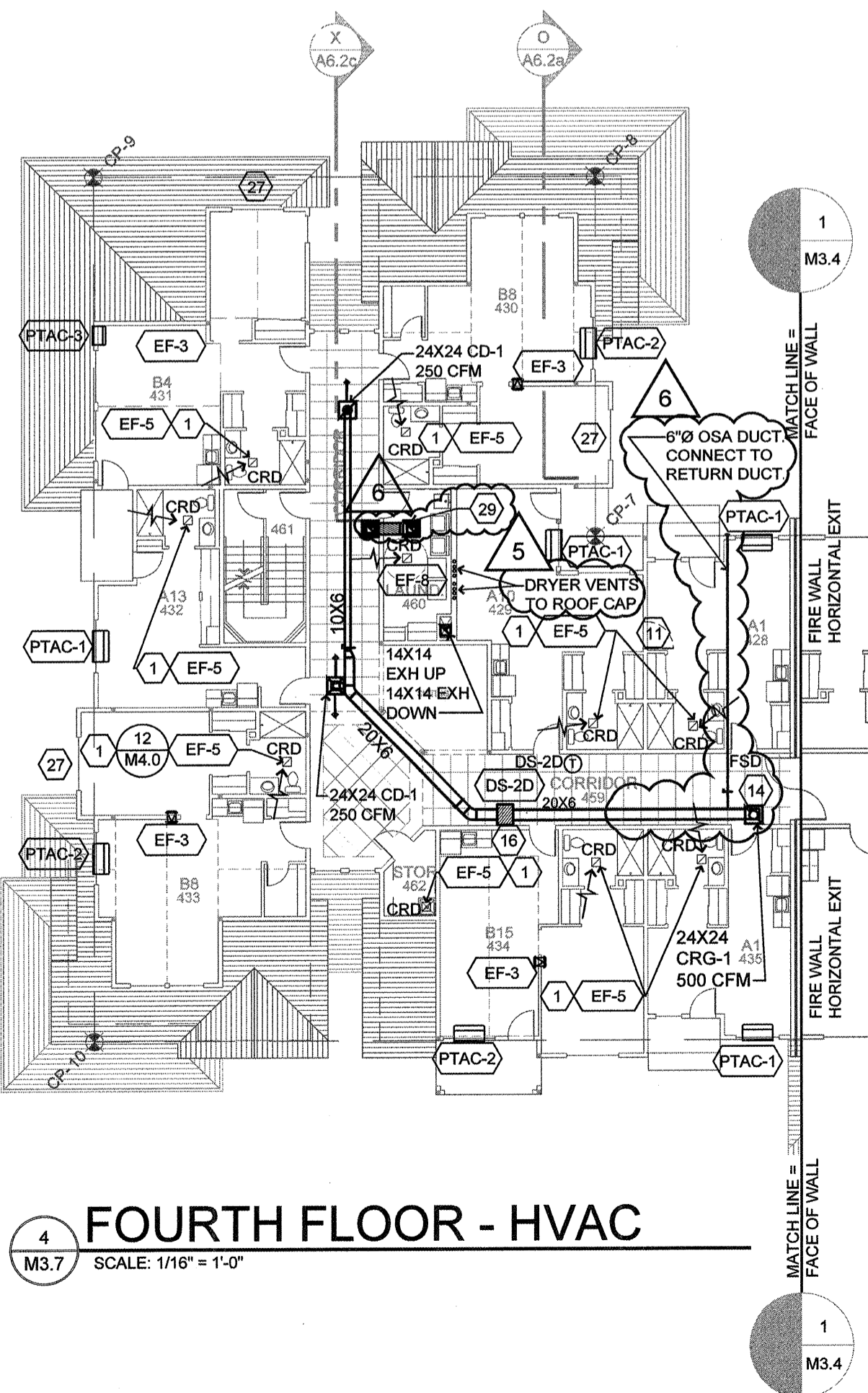
### Ventilation Air Schedule - Ashrae 62.1

Room Name and Number	Area (SQ. FT.)	Occupant Density (Person / 1000 SQ. FT.)	Number of Occupants	People Outdoor Air Rate (CFM)	Area Outdoor Air Rate (CFM/SQ. FT.)	Total OSA Required (CFM)	Supply Air to Space (CFM)	Makeup Air to Space (CFM)	OSA Being Provided in Space (CFM)	Return Air from Space (CFM)	Exhaust Air Required (CFM)	Exhaust Air from Space (CFM)	Equipment Mark No.
Main Kitchen Hood System Transfer air Dine	1400	0	0	0	0.7	960	1800	0	390.00	1675	1410	0	F-1 EF-1 AH-3
<b>TOTAL</b>	<b>1400</b>					<b>960</b>	<b>1800</b>	<b>3110</b>	<b>390.00</b>	<b>1675</b>	<b>1410</b>	<b>3500</b>	
Kitchen hood type 1 is a variable volume with VFD interlocking controls between exhaust fan and make up air.													
Activity room 168	2190	100	219	7.5	0.06	1774	2400	0	444.44	1900	0	200	F-2-2a/Hood
Toilet 159	170	0	0	0	0	0	0	150	27.78	0	140	150	F-2-2a/EF-8
Toilet 160	130	0	0	0	0	0	0	150	27.78	0	140	150	F-2-2a/EF-8
<b>TOTAL</b>	<b>2490</b>					<b>1774</b>	<b>2400</b>	<b>300</b>	<b>600.00</b>	<b>1900</b>	<b>280</b>	<b>500</b>	
Outside air being provided design: Activity Room to be provided with CO2 sensor set for 700 PPM to signal economizer to full open.													
Media Room 162	700	25	18	10	0.12	264	1200	0	400.00	800	0	0	F-3
<b>TOTAL</b>	<b>700</b>					<b>264</b>	<b>1200</b>	<b>0</b>	<b>400.00</b>	<b>800</b>	<b>0</b>	<b>0</b>	
Outside air being provided design: Corridor 173													
Corridor 173	1650	0	0	0	0.06	93	450	0	103.85	450	0	0	SF-2
Laundry 177	125	10	2	5	0.12	25	0	150	34.62	0	0	150	SF-3/EF-8
Corridor 256	1550	0	0	0	0.08	63	450	0	103.85	450	0	0	SF-2
Laundry 257	125	10	2	5	0.12	25	0	150	34.62	0	0	150	SF-2/EF-8
Corridor 356	1950	0	0	0	0.06	93	600	0	138.46	600	0	0	SF-2
Laundry 357	125	10	2	5	0.12	25	0	150	34.62	0	0	150	SF-2/EF-8
<b>TOTAL</b>	<b>6025</b>					<b>354</b>	<b>1500</b>	<b>450</b>	<b>450.00</b>	<b>1500</b>	<b>0</b>	<b>450</b>	
Outside air being provided: Corridor 181													
Corridor 181	1667	0	0	0	0.06	100	500	0	109.76	500	0	0	SF-3
Laundry 182	136	10	2	5	0.12	26	0	150	32.93	0	0	150	SF-3/EF-8
Corridor 261	1667	0	0	0	0.06	100	500	0	109.76	500	0	0	SF-3
Laundry 262	136	10	2	5	0.12	26	0	150	32.93	0	0	150	SF-3/EF-8
Corridor 361	1667	0	0	0	0.06	100	600	0	131.71	600	0	0	SF-3
Laundry 362	136	10	2	5	0.12	26	0	150	32.93	0	0	150	SF-3/EF-8
<b>TOTAL</b>	<b>5469</b>					<b>379</b>	<b>1600</b>	<b>450</b>	<b>450.00</b>	<b>1600</b>	<b>0</b>	<b>450</b>	
Outside air being provided: Lounge 172													
Lounge 172	430	30	13	15	0.15	195	1200	0	234.00	1000	0	0	AC-1
TV Room 253	474	30	15	15	0.15	225	500	0	97.50	400	0	0	AC-1
Reading 252	625	30	19	15	0.15	285	850	0	165.98	1200	0	0	AC-1
PC Room 251	148	7	2	20	0.20	40	250	0	48.75	250	0	0	AC-1
Wing A Corridor	9950	0	0	0	0.05	298	1200	0	234.00	1000	0	0	AC-1
<b>TOTAL</b>	<b>7625</b>					<b>1043</b>	<b>4000</b>	<b>0</b>	<b>780.00</b>	<b>3200</b>	<b>0</b>	<b>0</b>	
Outside air being provided: Dining Room and TV Room to be provided with CO2 sensor set for 700 PPM to signal economizer to full open.													
Corridor 355	980	0	0	0	0.06	58	340	0	62.04	340	0	0	AC-2
Multi 255	600	120	72	5	0.18	398	1200	0	218.98	1200	0	0	AC-2
Part of Dine Inter	1000	70	70	7.5	0.18	705	1200	0	218.98	700	0	0	AC-2
<b>TOTAL</b>	<b>2660</b>					<b>1159</b>	<b>2740</b>	<b>0</b>	<b>500.00</b>	<b>2240</b>	<b>0</b>	<b>0</b>	
Outside air being provided: Dining Room and Multi Room to be provided with CO2 sensor set for 700 PPM to signal economizer to full open.													
Part of Dine 171/170	3028	70	212	20	0.20	4240	3850	0	400.00	3000	0	0	AC-3
<b>TOTAL</b>	<b>3028</b>					<b>4240</b>	<b>3850</b>	<b>0</b>	<b>400.00</b>	<b>3000</b>	<b>0</b>	<b>0</b>	
Outside air being provided: Dining Room and P-dine to be provided with CO2 sensor set for 700 PPM to signal economizer to full open.													
<b>TOTAL</b>	<b>400</b>					<b>400</b>	<b>400</b>	<b>0</b>	<b>10.390%</b>				

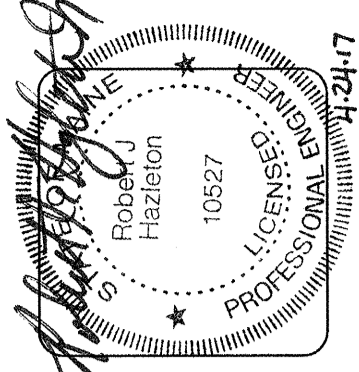
### DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYM	TYPE	FACE	FRAME	DAMPER	FINISH	MODEL NO.
CD-1	CEILING DIFFUSER	LOUVERED	T-BAR	MVD	WHITE	E.H. PRICE SMD
CD-2	CEILING DIFFUSER	LOUVERED	SURFACE	ORB	WHITE	E.H. PRICE SMD
CD-3	CEILING SUPPLY/EXHAUST	LOUVERED	SURFACE	N/A	WHITE	ALDES "CAP"
CRG-1	CEILING GRILLE	PERFORATED	T-BAR	MVD	WHITE	E.H. PRICE PDR
CRG-2	CEILING GRILLE	PERFORATED	SURFACE	ORB	WHITE	E.H. PRICE PDR
CRG-3	CEILING FILTER GRILLE	PERFORATED	T-BAR	MVD	WHITE	E.H. PRICE 10FF
RG-1	SIDEWALL GRILL	FIXED BAR	1" BORDER	ORB	WHITE	E.H. PRICE S30
SR-1	SIDEWALL SUPPLY GRILL	DOUBLE DEFL.	1" BORDER	ORB	WHITE	E.H. PRICE S30
TG-1	TRANSFER GRILL	FIXED BAR	1" BORDER	ORB	WHITE	E.H. PRICE S30
WTG-1	CEILING GRILLE	FIXED BAR	SURFACE	ORB	WHITE	E.H. PRICE S30
WL-1	WALL LOUVER	FIXED BAR	6" DEEP	ORB	MILL	RUSKIN ELF675DX SIZE: 22X10
WL-2	WALL LOUVER	FIXED BAR	2" DEEP	MILL	MILL	GREENHECK EHN-201 SIZE: 22X10

ORB = OPPOSED BLADE DAMPER  
MVD = MANUAL VOLUME DAMPER



- ### HVAC KEY NOTES:
- 4" EXHAUST DUCT FROM BATHROOM EXHAUST FAN TO APPROVED DISCHARGE CAP WITH INTEGRAL BACK DRAFT DAMPER. MAINTAIN 3FT MIN. CLEARANCE TO BUILDING OPENINGS, AND 10' MIN. FROM MECHANICAL FRESH AIR INTAKES. SEE 3/M4.0 FOR ROOF DISCHARGE DETAIL. SEE 13/M4.0 FOR WALL DISCHARGE.
  - HOOD DRAWINGS (H-1 - H-5) FOR ADDITIONAL INFORMATION.
  - SEE SHEET M4.2 FOR KITCHEN HOOD SECTIONS
  - DISHWASHER: TYPE II HOOD AND EXHAUST SYSTEM. USE ALUMINUM DUCTWORK.
  - 6"Ø SHEETMETAL EXHAUST DUCT IN SOFFIT TO APPROVED SOFFIT CAP WITH BACKDRAFT DAMPER.
  - 6" EXHAUST DUCT TO APPROVED DISCHARGE CAP WITH INTEGRAL BACK DRAFT DAMPER. MAINTAIN 3FT MIN. CLEARANCE TO ALL OPENINGS. SEE 3/M4.0 FOR ROOF DISCHARGE DETAIL. SEE 13/M4.0 FOR WALL DISCHARGE.
  - 7"Ø RANGE EXHAUST DUCT TO APPROVED CAP. PROVIDE UL LISTED FIRE CAULKING AT RATED MEMBRANE PENETRATIONS.
  - OUTDOOR COOLER/ FREEZER UNITS. ROUTE REFRIGERATION LINES UNDER SLAB IN 6" CONDUIT WITH LONG SWEEPS.
  - INSTALL ATTIC FANS (EF-9) NEAR ROOF PEAK, OPPOSITE OF MAIN PARKING.
  - 8" EXHAUST DUCT FROM EXHAUST FAN TO APPROVED DISCHARGE CAP WITH INTEGRAL BACK DRAFT DAMPER. MAINTAIN 3FT MIN. CLEARANCE TO ALL OPENINGS. SEE 3/M4.0 FOR ROOF DISCHARGE DETAIL.
  - LOCATION OF FUTURE DOOR
  - MECHANICAL SHAFT COORDINATE WITH ARCHITECTURAL AND STRUCTURAL. SEE DETAILS 8/A8.8 AND 2/S2.5.
  - SPLIT SYSTEM EVAPORATORS. SEE MECH. SPECIFICATIONS
  - FILTER RETURN GRILLE FOR T-BAR INSTALLATION.
  - DUCT LOCATED IN ATTIC. INSULATE WITH EXTERIOR INSULATION MIN. 2"
  - ROUTE DRAIN OVER AND DOWN IN WALL. DAYLIGHT INTO JANITOR SINK.
  - EXHAUST DUCTS LOCATED IN THE ATTIC FROM BELOW 1" INSULATION.
  - 8x8 EXHAUST DUCT TO APPROVED CAP.
  - ROUTE ALL DUCTWORK UNDER MECHANICAL WELL INTO ATTIC SPACE.
  - SEE SHEETS SMOKE CONTROL SHEETS SC1.1, 1.2, 1.3, 1.4 AND SC2.1 FOR ATRIUM SMOKE EXHAUST
  - COORDINATE DUCT ROUTING CLOSELY W/ STRUCTURAL. NOTIFY ARCHITECT IF CONFLICTS OCCUR. TYPICAL FOR ALL AREAS OF BUILDING.
  - W/ FSD AT TOP OF SHAFT
  - DRYER VENT. (4" MIN., MATCH DRYER DISCHARGE) EXHAUST DUCT TO APPROVED ROOF CAP WITH INTEGRAL BACK DRAFT DAMPER.
  - MOUNT PTAC UNIT 6" ABOVE OUTSIDE ROOF LINE. PROVIDE REMOTE THERMOSTAT OR REMOTE CONTROLLER WHERE MANUFACTURER EQUIPMENT HAS NO OPTION FOR REMOTE THERMOSTAT.
  - WATER HEATER VENTING UP. PROVIDE 3" PVC FOR VENT AND 3" PVC FOR COMBUSTION AIR. SEE DETAILS 1/M2.2 AND 14/M4.0.
  - DRYER VENT. 4" EXHAUST DUCT TO IN-VATE DRYER BOX AT WALL PENETRATION. PROVIDE UL LISTED RATED SEAL AT MEMBRANE PENETRATIONS. SEE SHEET M4.0 FOR DRYER DETAILS.
  - PROVIDE CONDENSATE LINE FOR FUTURE THRU-WALL PTAC UNITS IN "C" UNIT SPARE BEDROOMS.
  - SMOKE CONTROL DUCTS. SEE "SC" SHEETS FOR MORE INFORMATION.
  - TRANSFER AIR DUCT. TWO 12X12" PRICE PDDR DIFFUSER CONNECTED WITH A 8X4" DUCT. PROVIDE A FIRE SMOKE DAMPER WHERE DUCT CROSSES CORRIDOR WALL. MOTOR TO BE MOUNTED ON CORRIDOR SIDE OF WALL. SEE DETAIL 5/M4.0.
  - LOCATE IN VACANT SPACE ABOVE BUILT-IN FREEZER/REFRIGERATOR
  - INTERLOCK MOTORIZED DAMPER TO OPEN WHEN HP IS OPERATING. SEE MECHANICAL SCHEDULE (M4.2) FOR MINIMUM OUTSIDE AIR REQUIREMENT



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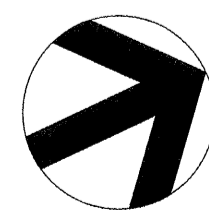
**PORTLAND**  
RETIREMENT RESIDENCE  
802 OCEAN AVE., PORTLAND, MAINE 04103

**WING 'C'**  
HVAC PLAN

DATE: 8/28/2015  
REVISED DATE:  
SHEET M3.7

SEE DETAILS 8/M2.1, 9/M2.1, AND 9/M4.0 FOR ALLOWABLE BORING / NOTCHING OF MEMBERS.

PTAC CALLOUTS HAVE BEEN UPDATED



**WING 'C' HVAC PLAN**  
SCALE: 1/8"=1'-0"