HVAC GENERAL SPECIFICATIONS

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE CURRENT REQUIRED CODES, THE 2012 INTERNATIONAL BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.

2. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND, NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS.

3. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND ELECTRICAL DRAWINGS.

4. ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE AND ALL RECIRCULATING FAN SYSTEMS SERVING AREAS OF EGRESS SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE SUPPLY DUCTWORK. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL (IF BUILDING IS SO EQUIPPED). IF THE BUILDING IS NOT PROVIDED WITH A FIRE ALARM SYSTEM, THE SMOKE DETECTOR SHALL CAUSE A VISIBLE AND AUDIBLE ALARM SIGNAL IN A NORMALLY OCCUPIED AREA. SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. IF A BUILDING FIRE ALARM SYSTEM IS INSTALLED, THE SMOKE DETECTOR SHALL BE FURNISHED BY THE FIRE ALARM SYSTEM CONTRACTOR, MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. IF A BUILDING FIRE ALARM SYSTEM IS NOT INSTALLED, THE SMOKE DETECTOR AND AUDIBLE/VISIBLE ALARM SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

5. PROVIDE FIRE DAMPERS IN ALL RATED THROUGH WALLS, FLOOR AND CEILING PENETRATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OR RATED AREAS. PROVIDE ACCESS DOORS IN DUCTWORK AT EACH FIRE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION FIRE AND SMOKE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 LABELED.

6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

7. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.

8. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.

9. INSTALL OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON 4" THICK REINFORCED CONCRETE PADS, EXTENDING 6" BEYOND UNIT PERIMETER OF EQUIPMENT.

10. SUPPLY, RETURN AND O.A. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN ALL SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

11. INSIDE OF THE BUILDING, SHEET METAL SUPPLY, RETURN, & O.A. DUCTWORK IN NON-AIR CONDITIONED AREAS AND MECHANICAL ROOMS SHALL BE EXTERNAL INSULATION WITH 2" THICK FIBERGLASS. 3/4 LB/FT3 DENSITY, DUCT INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, MINIMUM R-6. OUTSIDE OF THE BUILDING, INTERNAL INSULATION FOR SUPPLY, RETURN & O.A DUCTWORK MUST BE 2" THICK CLOSED-CELL ELASTOMERIC, 3 LB/FT3 DENSITY.

12. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.

13. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R VALUE - 6.0 MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODE) IN ATTICS AND OTHER UNCONDITIONED SPACES. AIR CONNECTORS ARE NOT ACCEPTABLE. SIZE TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 4'-0". FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

14. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN FITTINGS WITH SCOOP AND BALANCING DAMPER.

15. SHEET METAL DUCTWORK SHOWN AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK 3 LB./CU. FT. DENSITY DUCTLINER (MINIMUM R VALUE = 4.0 OR AS REQUIRED BY APPLICABLE ENERGY CODE). LINE ALL DUCTWORK A MINIMUM OF 10'-0" UPSTREAM/DOWNSTREAM OF ALL AIR HANDLING UNITS, FAN COIL UNITS AND TERMINAL UNITS.

16. PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

17. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

18. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 3/4" MANVILLE AEROTUBE II PIPE INSULATION APPLIED OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.

19. REFRIGERANT PIPING CARRYING OTHER THAN GROUP A1 OR B1 REFRIGERANTS AND INTERCONNECTING SEPARATE PIECES OF EQUIPMENT (SPLIT HVAC SYSTEMS) AND PASSING VERTICALLY THROUGH FLOORS FROM ONE STORY TO ANOTHER SHALL BE ENCLOSED IN A CODE APPROVED RIGID AND TIGHT CONTINUOUS FIRE RESISTING PIPE DUCT OR SHAFT HAVING NO OPENINGS INTO FLOORS NOT SERVED BY THE REFRIGERATING SYSTEM, AS REQUIRED BY LOCAL CODE AUTHORITIES. THE PIPE DUCT OR SHAFT SHALL BE VENTED TO OUTDOORS.

20. CONDENSATE FROM ALL ROOFTOP AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST ROOF DRAIN. CONDENSATE FROM ALL HORIZONTAL WATER SOURCE HEAT PUMPS ABOVE THE CEILING SHALL BE TRAPPED AND ROUTED TO THE NEAREST HUB DRAIN IN THE CEILING PLENUM. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS AND OUTDOORS). CONDENSATE SHALL BE PUMPED AS REQUIRED.

21. WATER SOURCE HEAT PUMP UNITS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE USED.

22. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH AABC OR NEBB STANDARDS, TO DELIVER THE AIR (AND WATER FLOW) QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT FOR APPROVAL.

23. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEM. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OR ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.

HUMIDISTATS.

25. ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL ON, AND ANCHORED TO, MINIMUM 12" HIGH INSULATED ROOF CURBS. CONTRACTOR SHALL COORDINATE ROOF SLOPE AND ACTUAL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS. ALL REFERENCES TO ROOF HEIGHTS REFER TO HEIGHTS ABOVE FINISHED ROOF SURFACE.

26. U.N.O. ROOF CURBS SHALL BE CUSTOM CURB OR APPROVED EQUAL (SUBMIT WITH SHOP DRAWINGS). VIBRATION/SOUND ATTENUATING ROOF CURBS (WHERE SCHEDULED OR NOTED) SHALL BE MASON RSC-A $(2-1/2^{"})$ or equal with acoustical package.

27. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.

28. SLOPE ALL HORIZONTAL GAS FLUE PIPING MINIMUM 1/4"/FT.

29. GAS FLUE PIPING SHALL BE TYPE "B" DOUBLE WALL FLUE, U.L. LISTED, EXCEPT FOR INDUCED OR FORCED DRAFT EQUIPMENT, WHICH SHALL BE METALBESTOS TYPE PS OR FQUAL.

30. DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO EXHAUST FANS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL WITH WELDED SEAMS AND JOINTS. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA-96 REQUIREMENTS. INSTALL GASKETED ACCESS DOORS AT 20' ON CENTER AND AT EACH CHANGE OF DIRECTION.

31. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE INSULATED, WHERE REQUIRED, PER NFPA 96 AND LOCAL CODE REQUIREMENTS. KITCHEN HOOD SUPPLY DUCTWORK SHALL BE INSULATED AS SPECIFIED FOR HVAC SUPPLY DUCTWORK. 32. PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL RECIRCULATING WATER PIPING

SYSTEMS. 33. PIPING AT PUMPS AND EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR

ACCESSORY LOAD IS CARRIED BY THE PUMP OR EQUIPMENT. 34. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.

35. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M CO., CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

36. MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCHES FOR ALL HVAC UNITS SHALL BE LOCATED IN LOCKING COVER ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL OR OTHER LOCATION APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION.

37. ROOFTOP HVAC UNITS SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTINUOUS UNDER BOTTOMS OF HVAC UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. SPACE BETWEEN ROOF DECK AND BOTTOM OF ROOFTOP HVAC UNITS (INSIDE OF ROOF CURBS) SHALL BE FILLED WITH HIGH DENSITY, 6 LBS./CU.FT., ACOUSTICAL INSULATION.

38. DRYER VENTS SHALL BE CONSTRUCTED OF MINIMUM 14 GA. ALUMINUM DUCT WITH ALL SEAMS AND CONNECTIONS SECURED WITH SS POP RIVETS. INSTALL CLEAN-OUT DOOR IN HEEL OF 90° ELBOWS. DUCT DISCHARGE OPENING SHALL BE REINFORCED TO MAINTAIN SHAPE AND SHALL HAVE REMOVABLE 1/2" X 1/2" BIRD SCREEN.

39. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND, NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS.

40. A PERMIT MUST BE ISSUED TO A MECHANICAL OR GAS CONTRACTOR LICENSED TO DO BUSINESS IN SHELBY COUNTY PRIOR TO PERFORMING ANY MECHANICAL OR GAS WORK.

41. ALL PIPING IN THE 2LB PORTION OF THE SYSTEM SHALL BE MARKED (LABELED) AT THE BEGINNING, ALL ENDS AND AT NOT MORE THAN 6FT INTERVALS ALONG ITS LENGTH DESIGNATING 2-PSI GAS PRESSURE.

COMMERCIAL ENERGY CONSERVATION CODE COMPLIANCE

DRAWINGS: CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER, RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.

MANUALS, CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL

BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS (SEE APPENDIX E) AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: (a) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT

REQUIRING MAINTENANCE. (b) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. (c) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.

(d) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.

SÉT-POINTS.

24. MOUNT THERMOSTATS AND HUMIDISTATS 4'-6" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING COVER ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS AND

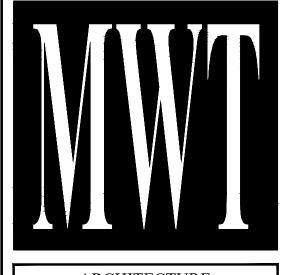
(e) A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED

MECHANICAL S	YMBOLS
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ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
		ACCU	AIR COOLED CONDENSING UNIT	LDB	LEAVING DRY BULB TEMPERATURE
AHU	AIR HANDLING UNIT — Horizontal (above Ceiling)	AHU	AIR HANDLING UNIT	LWB	LEAVING WET BULB TEMPERATURE
A		AD	ACCESS DOOR	LRA	LOCKED ROTOR AMP
AHU	AIR HANDLING UNIT _ Vertical	AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
ACCU DCU	AIR COOLED CONDENSING UNIT	AP	ACCESS PANEL	MA NFPA	MIXED AIR NATIONAL FIRE PROTECTION
DCU		ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERANT & AIR CONDITIONING ENGINEERS	M	ASSOCIATION ONE THOUSAND
FCU	FAN COIL UNIT – DUCTLESS	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MBH OSA	1000 BTU PER HOUR OUTSIDE AIR
		BTU	BRITISH THERMAL UNIT	OSA	OUTSIDE AIR TEMPERATURE
DU	POOL DEHUMIDIFICATION INDOOR UNIT	BTUH	BRITISH THERMAL UNIT PER HOUR	USAT	OUTSIDE AIR TEMI ERATURE
		CA	COMBUSTION AIR	PACU	PACKAGE AIR-CONDITIONING UNIT
MAU	MAKE-UP AIR UNIT	CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR
		۴F	DEGREES FAHRENHEIT	RG	RETURN GRILLE
VTAC	VERTICAL TERMINAL AIR-CONDITIONING	DIA.	DIAMETER	RR	RETURN REGISTER
		DF	DUCT FURNACE	RAT	RETURN AIR TEMPERATURE
PTAC	PACKAGE AIR-CONDITIONING UNIT	EBBH	ELECTRIC BASEBOARD HEATER	RPM	REVOLUTIONS PER MINUTE
EF/SF	EXHAUST FAN OR SUPPLY FAN	EUH	ELECTRIC UNIT HEATER	SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
LI / JI	EXTROST FAIL ON SOTTET FAIL	EAT	ENTERING AIR TEMPERATURE	TSP	TOTAL STATIC PRESSURE
SAD	SUPPLY AIR DIFFUSER	EDB	ENTERING DRY BULB TEMPERATURE	SA	SUPPLY AIR
		EWB	ENTERING WET BULB TEMPERATURE	SAG	SUPPLY AIR GRILLE
SR	SIDEWALL SUPPLY REGISTER	EF	EXHAUST FAN	SR	SUPPLY REGISTER
		EAD	EXHAUST AIR DUCT EXHAUST AIR LOUVER	ΤΔ	TEMPERATURE DIFFERENCE
RG/RR EG/ER	RETURN GRILLE OR REGISTER EXHAUST GRILLE			TYP.	TYPICAL
		FPM	FEET PER MINUTE	UL	UNDERWRITTEN LABORATORIES
VCD	VOLUME CONTROL DAMPER	FD FAL	FIRE DAMPER FRESH AIR LOUVER	VTAC	VERTICAL TERMINAL AIR-CONDITIONIN
		FLA	FULL LOAD AMPS	VCD	VOLUME CONTROL DAMPER
MD	MOTORIZED DAMPER	GPM	GALLONS PER MINUTE	WSA	WIRE SIZE AMPS
FD	FIRE/SMOKE DAMPER	GC	GENERAL CONTRACTOR		
		HVAC	HEATING, VENTILATION AND AIR CONDITIONING		
	MANUAL BUTTERFLY DAMPER	HP	HORSE POWER		
	LOUVER FOR COMBUSTION AIR	"WC	INCHES WATER COLUMN		
	FLEXIBLE DUCT	KW	KILOWATT		
	2-HOURS FIRE RATED DUCTWORK	LAT	LEAVING AIR TEMPERATURE		
	CENTRIFUGAL FAN				
T'STAT	WALL MOUNTED THERMOSTAT				
SD	DUCT MOUNTED SMOKE DETECTOR				
	HUMIDIFIER				

SYMBOL	ABBR
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NO.	DESCRIPTION	DATE	E
-	ISSUED FOR DEMOLITION	06/09/17	P
-	ISSUED TO FRANCHISE	06/09/17	
-	ISSUED FOR BID (ID ONLY)	07/21/17	F
-	ISSUED TO FRANCHISE	08/17/17	F
-	ISSUED FOR PERMIT	08/04/17	P
-	FOR FINAL APPROVAL	10/02/17	F
-	ISSUED FOR PERMIT	/ 28/ 7	
-	ISSUED FOR PERMIT	2/21/18	P
			-



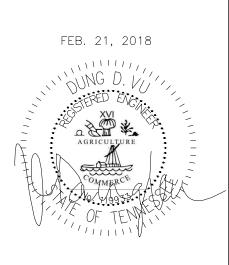
ARCHITECTURE URBAN PLANNING INTERIORS HOTELS/ HOUSING/ MIXED USE 1800.630.3750 CA-SERVICES ca@mwtusa.com / 1800.717.5816

WARNING IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.



63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV GENERAL **SPECIFICATIONS & SYMBOLS**



IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS) IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL ARCHITECTURAL STRUCTURAL MECHANICAL ELECTRICAL

AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATIC

THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSAI TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

											AHU-SCHEDULE	S-HEAT	PUMP											
			AIF	R HANDL	ING UNIT								HEAT	TING		(CONDENSING	UNIT				REFRIGE		SEER
TAG	CFM	OSA (CFM)	ESP	FAN H/P	EDB/EWB (*F)	TOTAL CAPACITY (BTU/H)	Y SENS. CAPACITY (BTU/H)	VOLTAGE (V/P/HZ)	MCA (A)	MOCP (A)	MODEL#	TON	HEATING CAPACITY (BTU/H)	HSPF	TAG	AMBIENT	CAPACITY (BTU/H)	VOLTAGE (V/P/HZ)	MCA (A)	MOCP (A)	MODEL		QUID SEE	LIECC 201
AHU-B.1	1700	180	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-B.1	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-B.2	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-B.2	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-B.3	800		0.60	1/3	80/67	24400	18500	208/1/60	2.8	15	TRANE-GAM5B0B30M21	2	23800	9.0	ACCU-B.3	105	24400	208/1/60	15	25	TRANE-4TWR7024A1	5/8" 3	3/8" 16	6 15
AHU-1.1	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.1	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.2	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.2	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.3	1700	250	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.3	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.4	1080	150	0.70	1/2	80/67	36000	26900	208/1/60	4.1	15	TRANE-GAM5B0B36M31	3	34000	9.0	ACCU-1.4	105	36000	208/1/60	22	35	TRANE-4TWR7036B1	3/4" 3	3/8" 16	6 15
AHU-1.5	1700	150	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.5	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.6	1700	150	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.6	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.7	1700	150	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-1.7	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-1.8	1575	250	0.60	1	80/67	47000	35100	208/1/60	6.0	15	TRANE-GAM5B0C48M41	4	46000	9.0	ACCU-1.8	105	46000	208/1/60	28	45	TRANE-4TWR7048A1	7/8" 🕻	3/8" 16	6 15
AHU-2.1	1080	100	0.70	1/2	80/67	36000	26900	208/1/60	4.1	15	TRANE-GAM5B0B36M31	3	34000	9.0	ACCU-2.1	105	36000	208/1/60	22	35	TRANE-4TWR7036B1	3/4" 3	3/8" 16	6 15
AHU-2.2	1575	200	0.60	1	80/67	47000	35100	208/1/60	6.0	15	TRANE-GAM5B0C48M41	4	46000	9.0	ACCU-2.2	105	46000	208/1/60	28	45	TRANE-4TWR7048A1	7/8" 🕄	3/8" 16	5 15
AHU-2.3	1575	200	0.60	1	80/67	47000	35100	208/1/60	6.0	15	TRANE-GAM5B0C48M41	4	46000	9.0	ACCU-2.3	105	46000	208/1/60	28	45	TRANE-4TWR7048A1	7/8" 、	3/8" 16	5 15
AHU-2.4	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-2.4	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-2.5	800	150	0.60	1/3	80/67	24400	18500	208/1/60	2.8	15	TRANE-GAM5B0B30M21	2	23800	9.0	ACCU-2.5	105	24400	208/1/60	15	25	TRANE-4TWR7024A1	5/8" 🕻	3/8" 16	6 15
AHU-2.6	1080	200	0.70	1/2	80/67	36000	26900	208/1/60	4.1	15	TRANE-GAM5B0B36M31	3	34000	9.0	ACCU-2.6	105	36000	208/1/60	22	35	TRANE-4TWR7036B1	3/4" 3	3/8" 16	6 15
AHU-2.7	1575	200	0.60	1	80/67	47000	35100	208/1/60	6.0	15	TRANE-GAM5B0C48M41	4	46000	9.0	ACCU-2.7	105	46000	208/1/60	28	45	TRANE-4TWR7048A1	7/8" 🕄	3/8" 16	6 15
AHU-2.8	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-2.8	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-2.9	1700	200	0.60	1	80/67	54000	41000	208/1/60	7.6	15	TRANE-GAM5B0C60M51	5	52000	9.0	ACCU-2.9	105	54000	208/1/60	37	60	TRANE-4TWR7060A1	1-1/8"	3/8" 15	5 15
AHU-P.1	1080	200	0.70	1/2	80/67	36000	26900	208/1/60	4.1	15	TRANE-GAM5B0B36M31	3	34000	9.0	ACCU-P.1	105	36000	208/1/60	22	35	TRANE-4TWR7036B1	3/4" 3	3/8" 16	6 15
AHU-P.2	1080	200	0.70	1/2	80/67	36000	26900	208/1/60	4.1	15	TRANE-GAM5B0B36M31	3	34000	9.0	ACCU-P.2	105	36000	208/1/60	22	35	TRANE-4TWR7036B1	3/4"	3/8" 16	5 15

MCA = MINIMUM CIRCUIT AMPS C.B. = CIRCUIT BREAKER MOCP = MAXIMUM OVER CURRENT PROTECTION

NOTES:

- 1. ALL AIR HANDLING UNITS SHALL BE PROVIDED WITH FACTORY INSTALLED HEATER PACKAGES (FUSED CIRCUIT BREAKERS), FOIL-FACED FIBERGLASS INSULATION OR CLOSED-CELL ELASTOMERIC INSULATION, DISCONNECT SWITCH, TIME-DELAY RELAY, FACTORY-SUPPLIED POWER CORD, 40-VA- TRANSFORMER, PRE-PAINTED GALVANIZED STEEL CABINET WITH R 4.2 INSULATION, MINIMUM 2% CABINET LEAKAGE RATE WHEN TESTED AT 1.0 INCHES OF STATIC PRESSURE, PRIMARY AND SECONDARY DRAIN CONNECTIONS WITH BRASS INSERTS, INSPECTION PLATES FOR CLEANING COIL, FACTORY-SUPPLIED CLEANABLE FILTER FRAME.
- 2. FURNISH TEMP SYSTEM CONTROL FOR NETWORK OF BUILDING UNITS. COMMERCIAL PROGRAMMABLE ELECTRONIC THERMOSTATS WITH 7 DAY TIMECLOCK, AUTO CHANGEOVER, MULTI STAGE CAPACITY, AND LARGE LCD TEMPERATURE DISPLAY FOR EACH ZONE.
- 3. FURNISH A SMOKE DETECTOR IN THE SUPPLY DUCT OF EACH UNIT SERVING A CORRIDOR. INTERLOCK THE UNIT TO SHUT DOWN WHEN SMOKE IS DETECTED.
- 4. MERV-7 PREFILTERS AND MERV-12 FINAL FILTERS AT ALL AIR HANDLING UNITS EXCEEDING 2000 CFM SUPPLY AIR.
- 5. THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 3 DEGREES.
- 6. FURNISH A PROGRAMMABLE THERMOSTAT WITH EACH UNIT.
- 7. EACH COOLING COIL SHALL BE FURNISHED WITH A MATCHING THERMOSTATIC EXPANSION VALVE (TXV).
- 8. ALL CONDENSING UNITS SHALL BE FURNISHED WITH CRANKCASE HEATER, LOW AMBIENT KIT & WINTER START CONTROL.
- 9. OPTIONAL SAFETY DEVICE SHALL INCLUDE H.P. & L.P. CUTOUT SWITCH AND EVAPORATOR FREEZE THERMOSTAT.

			AREA	FAI	N	С	OOLING CA	PACITY			HEATING C	APACITY		ELECT	HEATER	CAPAC	CITY		
MARK	MANUF.	MODEL NO.	SERVED	CFM HI/LOW	MIN. O.S.A.	TOTAL BTU/HR	SENSIBLE BTU/HR	WATTS	AMPS	ER BTU/HF	C.O.P.	WATTS	AMPS	BTU/HR	WATTS	MCA N	МОСР	VOLTAGE	REMARKS
PTAC	GE	AZ65H09DAC	GUEST ROOMS	409/300	35	9,600		785	3.9 ⁻	2.2 8,000	3.7	630	3.1	6,600	1,960	9.6	15	208/1/60	SEE NOTE #1,2,3,4,5,6,7,8,9,1
PL	ATES FOR THE I	MOUNTING OF ELECTRIC	R CORD & SUB-BASE V AL RECEPTACLE. R REMOTE T-STAT AT V			το μα	ATCH EXTERIO	R WALL.		LE MODEL "RAG E MODEL "RAB7		RILLE	9. MUL		. SEE MEC		,	H x 13 7/8"D FOR EXACT LO	
3. FU	RNISH UNIT WITH	H REMOTE WALL T-STA	Т.			6. FURNIS	SH INTERNAL	CONDENS	ATE DRAIN	KIT MODEL "RAE	10".		10. T-	STAT/REMOT	E CONTROL	WITH TV	WO SPEE	ED FAN CONTRO	UL CAPABILITY.
						7. FURNIS	SH UNIT WITH	LOW AME	BIENT CONT	ROL AND LOW A	MBIENT LOO	CKOUT							

									INDOOR									C	UTDOOR			
UNIT	AREA	LOCATION	В	BLOWER	SECTIO	N		COOLING C.	APACITY			ELECTRIC	DATA	DIMENSIONS		UNIT						
NO.	SERVED	LUCATION	CFM	OA CFM	EXT. S.P.	BRAKE HP	TOTAL CAP. MBH	SENS CAP. MBH	EAT DB/WB (°F)	LAT DB/WB (°F)	VOLT/PH	МСА	MOP	(WxHxL)_in.	MAKE/MODEL	NO.	LOCATION	SERVES	VOLT/PH	MCA	MOP	MAKE/MODE
DU-1	POOL AREA	POOL EQUIP. RM.	2800	750	0.5	2	75.8	38	82/69	_	208/3	37.5	50	28.6x60.6x34.8	DXair DE-RA-SS073	DCU-1	1ST FLOOR	DU-1	208/3	15	15	DXair CVH008
Hot Ga R—410/	Refrigeran	apable of Rejecting	100% (of the	Reclaim	n Heat		5. Electric D 6. Single Po 7. Closed Cel 8. Internally N	int Power Co I Insulation	nnection with	Factory Mo	ounted and	Wired Di	sconnect			(GONZALES FOR PRODUCTS.	D	C ENGINEE DIRECT: 713	DNZALES ERED SYSTEM 3-538-1140 281-530-3700

SPLIT	SYSTEM A/C SC	HEDULE - DUC	TLESS				IND	OOR UNIT	
					FAN				CAPACITY
MARK	MANUF. BASED ON	AREA SERVED	MODEL #	C.F.M.	0.S.A.	EXT. S.P.	COOLING CAPACITY BTUH/HR	SUPPLEMTL KW	HEAT PUMP MBH
FCU-1	CARRIER OR EQUAL	ROOF TOP BAR	40MFC022-3	580	0	-	22,000		
* INDO MC	, Dor unit poweref CA = minimum cif		DR UNIT.					1	

MOCP = MAXIMUM OVERCURRENT PROTECTION AMPS

FLEXIBLE DUCT SIZE	SCHEDULE
SUPPLY AIR (CFM)	DIFFUSER NECK AND FLEXIBLE DUCT SIZE
0-100	6"ø
101-200	8"ø
201-300	10"ø
301-400	12"ø
401-500	14"ø

COMBUSTION AIR ANALYSIS

AREA SERVED	TOTAL GAS INPUT	REQUIRED SIZE OF OPENING STANDARD (SECTION 703 – IMC 2009)	MINIMUM SIZE OF OPENING	PROPOSED LOUVERS
WATER HEATER RM.	1,791,000 BTUH	1 SQ. IN. PER 2000 BTUH	895 SQ. IN.	48x36
COMM. LAUNDRY	495,000 BTUH	1 SQ. IN. PER 2000 BTUH	248 SQ. IN.	24x24

ELECTRIC DUCT HEATERS UNIT # CAP. MBH KW 30 EDH-1 — 28 NOTE: 1. Disconnect Switch 2. SCR Heat Control 3. Duct Mounted Temperature Sensc 4. Single Point Power Connection 5. Hinged Access Door

ELAS1	OMERIC	INSULAT	ION,	DIS	CONNEC	ΤS	WITC
DAT		TECTED	ΛT	1 0		ΛE	CT/

E	ELECT	RIC UN	IT HEATER (EUH)							
M.	IARK	MANUF.	MODEL NO.	AREA SERVED	AIR FLOW CFM	HEAT BTU/HR	ING CAPA WATTS	AMPS	VOLTAGE		REMARKS
E	EUH	QMARK	MUH0581	STAIRWELLS	350	17,060	5,000	24	208/1/60	SEE NOTES	

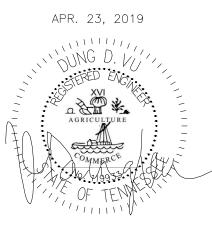
NOTES: 1. TEMPERATURE RISE 45 DEGREES F.

2. HOUSING MATERIAL 20 ga. STEEL, FINISH POLYESTER POWER COAT.

3. EUH SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT.

									-		OUTDOOF	R UNIT			NOTES
	ELECTRICAL			ICAL					NOM.			ELECTRIC.	AL		
∍	M.C.A.	M.O.C.P.	VOLTAGE	APPROX. WEIGHT	CONFIGURATION	MARK	MANUF. BASED ON	MODEL #	CAPACITY TONS	SEER	M.C.A.	M.O.C.P. VO	VOLTAGE	APPROX. WEIGHT	
	1	15	208/1/60	26.4	HIGH WALL	CU-1	CARRIER	38MFC022-3	2.0	15	16	25	208/1/60	98.1	

CFM)MCAMOPVOLT/PHREMARKS800104185208/3LOCATED AT POOL EQUIP. RM.6.Air Flow Switch7.80/20 Nickel Chrome Elements8.Stainless Steel Element Connections9.Circuit Fusing 10.10.Heater Must be UL and NEC Rated					
6. Air Flow Switch 7. 80/20 Nickel Chrome Elements 8. Stainless Steel Element Connections 9. Circuit Fusing	CFM)	MCA	MOP	VOLT/PH	REMARKS
 7. 80/20 Nickel Chrome Elements nsor 8. Stainless Steel Element Connections 9. Circuit Fusing 	800	104	185	208/3	
	isor	7. 80 8. St 9. Ci)/20 Ni ainless rcuit Fu	ckel Chrome Steel Elemer sing	nt Connections



IMP	ORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)
	IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
1.	YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION
	FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
2.	YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED
	AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
3.	YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL

YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT. AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

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	URBAN IN DTELS/ HOU 1800 CA- a@mwtusa.co IT IS A VIOLATIO PERSON, UNLE RECTION OF THI EPRODUCE THES A B B CA ERSON, UNLE RECTION OF THI EPRODUCE THES A CA ERSON, UNLE RECTION OF THI EPRODUCE THES CA ERSON, UNLE RECTION OF THI EPRODUCE THES CA ERSON, UNLE RECTION OF THI EPRODUCE THES CA ERSON, UNLE RECTION OF THI EPRODUCE THES CA ERSON OF THE EPRODUCE THES CA ERSON OF THE EPRODUCE THES CA ERSON, UNLE RECTION OF THE EPRODUCE THES CA ERSON OF THES CA ERSON OF THES CA ERSON OF THE EPRODUCE THES CA ERSON OF THES CA ERSON OF THES CA ERSON OF THES CA ERSON OF THES CA ERSON OF THES CA ERSON OF THES CA	N PLANY TERIORS USING/ N 0.630.375 SERVICE com / 180 NOF THE L ESS ACTING E ARCHITEC SE DRAWING I B.B. KINC TENNESSE D: 16 006 -2018 PL DV	VING MIXED U 50 ES 0.717.581 AW FOR ANY UNDER THE T, TO ALTER S IN ANY W/ S BLVD. EE 38103	7 0R AY.
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Cr DII RH DI CI CI	URBAN IN DTELS/ HOU 180 CA- a@mwtusa.c IT IS A VIOLATIC PERSON, UNLE RECTION OF THI EPRODUCE THES A B B CA- ERSON, UNLE RECTION OF THI EPRODUCE THES A CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- CA- ERSON, UNLE RECTION OF THI EPRODUCE THES CA- CA- CA- CA- CA- CA- CA- CA- CA- CA	N PLANY TERIORS USING/ N 0.630.375 SERVICI 2000 / 180 WARNING DN OF THE L SS ACTING E ARCHITEC SE DRAWING LOFT ALSCH ALSCH	VING MIXED U 50 ES 0.717.581 AW FOR ANY UNDER THE T, TO ALTER S IN ANY W/ S BLVD. EE 38103	7 0R AY.

EXHAUST FAN SCHEDULE														
					MIN. CA	PACITY	710				ELECTRIC	CAL		
MARK	TYPE	MANUF.	MODEL #	AREA SERVED	C.F.M.	S.P.	TIP SPEED	DRIVE	RPM	WATTS	HP	VOLTAGE	MAX SONES	REMARKS
EF-1	INLINE	СООК	GN-148	RESTROOM @ BASEMENT	108	.500		DIRECT	1,075	47		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-2	INLINE	СООК	GN-622	LAUNDRY EXHAUST	392	.500		DIRECT	1,400	147		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-3	INLINE	СООК	GN-622	WATER HEATER RM.	392	.500		DIRECT	1,400	147		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-4	CEILING	СООК	GC-422	TRASH RM.	250	.500		DIRECT	1,500	107		120/1/60	4.0	NOTES #1, 2, 4, 5, 7, 8.
EF-5	INLINE	СООК	GN-622	PUBLIC RESTROOM @ 1ST FLOOR	392	.500		DIRECT	1,400	147		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-6	INLINE	GREEN HECK	SQ-100	POOL DESK	1156	.625		DIRECT	1,725		1/4	120/1/60	10.7	NOTES #8.
EF-7	CEILING	СООК	GC-542	POOL EQUIPMENT	314	.500		DIRECT	1,600	131		120/1/60	5.5	NOTES #8.
EF-8	INLINE	СООК	GN-142	RESTROOM @ 2ND FLOOR	108	.500		DIRECT	1,075	47		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-9	INLINE	СООК	GN-622	PUBLIC RESTROOM @ 2ND FLOOR	392	.500		DIRECT	1,400	147		120/1/60	3.0	NOTES #4, 5, 7, 8.
EF-10	INLINE	СООК	GN-720	GUEST BATHROOMS @ 3RD TO 12TH FLOOR	385	.875		DIRECT	1,375	287		120/1/60	4.5	NOTES #8.
EF-11	INLINE	СООК	GN-186	GUEST BATHROOMS @ 2ND FLOOR	186	.625		DIRECT	1,100	95		120/1/60	5.0	NOTES #8.
EF-12	CEILING	СООК	GC-128	UNISEX RESTROOM,STORAGE:110,122,1302A	50	.375		DIRECT	0,750	30		120/1/60	1.3	NOTES #1, 2, 3, 5, 6, 7.
EF-13	CEILING	СООК	GC-166	REFRESH 1304, STORAGE 1306	133	.375		DIRECT	1,100	51		120/1/60	3.0	NOTES #1, 2, 4, 5, 7, 8.
EF-14	INLINE	СООК	GN-542	GUEST BATHROOMS @ PENTHOUSE	285	.625		DIRECT	1,600	131		120/1/60	5.0	NOTES #8.
EF-15	CEILING	СООК	GC-622	GENERATOR, BOH STOR. @BA,1ST FLOOR	339	.625		DIRECT	1,400	102		120/1/60	3.0	NOTES #1, 2, 4, 5, 7, 8.
EF-16	CEILING	СООК	GC-522	FIRE PUMP ROOM @ BASE FLOOR	201	.250		DIRECT	1,400	74		120/1/60	2.0	NOTES #1, 2, 4, 5, 7, 8.
EF-17	CEILING	СООК	GC-862	RE-CHARGE ROOM @ 1ST FLOOR	775	.625		DIRECT	1,098	228		120/1/60	4.0	NOTES #1, 2, 4, 5, 7, 8.
EF-18	CEILING	СООК	GC-542	KITCHEN ROOM @ 1ST FLOOR	340	.375		DIRECT	1,600	117		120/1/60	5.5	NOTES #1, 2, 4, 5, 7, 8.
EF-19	CEILING	СООК	GC-622	REFRESH ROOM @ 3RD-12TH FLOOR	392	.500		DIRECT	1,400	119		120/1/60	3.0	NOTES #1, 2, 4, 5, 7, 8.
EF-20	CEILING	СООК	GC-168	BAR BOH ROOM @ 2ND FLOOR	162	.250		DIRECT	1,160	54		120/1/60	3.5	NOTES #1, 2, 4, 5, 7, 8.

NOTES:

1. PROVIDE FAN WITH MANUFACTURERS BRICK VENT – SUNVENT 3. FAN SHALL SWITCH ON/OFF WITH ROOM LIGHTS. MODEL BV1, DIMENSION = $4 \frac{3}{4}$ " H x 16 $\frac{1}{2}$ " W x 4" D.

2. PROVIDE FAN WITH MANUFACTURERS CEILING RADIATION DAMPER. 4. FAN SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT. 7. PROVIDE FAN WITH SOLID STATE SPEED CONTROLLER.

							100% C	OUTSID	E AIR SI	PLIT SY	YSTEN	1 UNIT	SCHEDL	JLE						
				Cooli	ng			Hea	ating		Suppl	y Fan			Electric Data	l				
TAG	OUTSIDE AIR	ESP (in)	CAPACITY	(MBH)	EAT °F	LAT °F	CAPACIT	Y (MBH)	EAT °F	LAT °F	HP	FRPM		СОМР		COND FAN		МАХ		
	(CFM)	()	SENSIBLE	TOTAL	DB/WB	DB/WB	INPUT	OUTPUT	DB	DB			VOLTAGE	RLA	FLA	FLA	MCA		WEIGHT (LBS)	STANDARD OF PERFORMANCE
MAU-1	18400	2.0	685.63	1580.73	91.1/80.2	75/62.21	1600	1280	17	81	2x10	1170	460/3	2x40.7 2x53.1	2x14.5	8x3.6	259	300	15443	AAON RN-130-3-0-LA09-3N
 Summer Design Conditions based on ASHRAE .4% Evaporation Column. Units to have modulating hot gas re-heat for dehumidification (on/off not acceptable) and deliver 75 F @ 50% RH air at design conditions. Units to have hot gas bypass on ALL circuits. 																				
	Jnits to Jnits to	have mo have ho	odulating ho t gas bypa	ot gas re- ss on ALL	heat for de circuits.	ehumidifica	ition (on/	∕off not		,				5	conditions.					
3. 4.	Jnits to Jnits to Jnits to	have mo have ho have mo	odulating ho t gas bypa odulating go	ot gas re— ss on ALL as heat fui	heat for de circuits. rnaces with	ehumidifica Stainless	tion (on/ Steel HX	/off not : carrying	, g 25 year	non-pr				air at design o Turndown).	conditions.					
3. 4. 5. 6.	Jnits to Jnits to Jnits to Cabinet c 2500 Sal	have mo have ho have mo onstruc t Spray	odulating ho t gas bypa odulating go tion is 2" o Tested exto	ot gas re— ss on ALL as heat fui double wall erior paint.	heat for de circuits. rnaces with with foam	ehumidifica Stainless injected p	tion (on/ Steel HX panels wit	/off not : carrying	, g 25 year	non-pr				5	conditions.					Contact Tom Whiteley
3. 4. 5. 6. 7.	Jnits to Jnits to Jnits to Cabinet c 2500 Sal Factory in	have mo have ho have mo construc t Spray nstalled	odulating ho t gas bypa odulating go tion is 2" o Tested exto electrical d	ot gas re— ss on ALL as heat fui double wall erior paint. lisconnect	heat for de circuits. rnaces with with foam for single p	ehumidifica Stainless injected p point wiring	tion (on/ Steel HX banels wit g.	/off not carrying h R-13	g 25 year insulation	r non-pr n value.	ro-rate			5	conditions.					Sales Engineer HAVTECH
3. 4. 5. 7. 8.	Units to Units to Dabinet c 2500 Sal Factory in ECM Cond	have ma have ho have ma construc t Spray nstalled denser f	odulating ho t gas bypa odulating go tion is 2" c Tested exto electrical d an motors	ot gas re— ss on ALL as heat fui double wall erior paint. lisconnect for conder	heat for de circuits. rnaces with with foam	ehumidifica Stainless injected p point wiring pressure co	tion (on/ Steel HX panels wit g. pontrol (VF	√off not C carrying th R−13	g 25 year insulation enser Fans	r non-pr n value. s accept	ro-rate			5	conditions.					

10. Phase and brownout protection monitor.

11. 42" — 54" High Fully welded insulated plenum curb for horizontal discharge.

SMOKE CONTROL	SYSTEMS

SMOK	SMOKE CONTROL SYSTEMS												
					MIN. CA	PACITY					ELECTRIC	CAL	
MARK	TYPE	MANUF.	MODEL #	AREA SERVED	C.F.M.	S.P.	TIP SPEED	DRIVE	RPM	WATTS	HP	VOLTAGE	REMARKS
SEF-1	CENTRIFUGAL	COOK	CPS-165	SMOKE EXHAUST	6400	1.500	12,281	BELT	2,843		7.5	480/3/60	NOTES #1, 2, 3, 4, 5, 6, 7, 8, 9.
SEF-2	INLINE	COOK	20TID	SMOKE EXHAUST	3674	0.625		DIRECT	1,725		3/4	480/3/60	NOTES #1, 2, 3, 4, 5, 6, 7, 8, 9.
SEF-3	INLINE	COOK	20TID	SMOKE EXHAUST	3674	0.625		DIRECT	1,725		3/4	480/3/60	NOTES #1, 2, 3, 4, 5, 6, 7, 8, 9.
PF-1	CENTRIFUGAL	COOK	CPV-270	STAIRCASE #1	11400	1.500	7,614	BELT	1,077		7.5	480/3/60	NOTES #1, 4, 5, 6, 7, 8, 9.
PF-2	CENTRIFUGAL	COOK	CPV-270	STAIRCASE #2	11400	1.500	7,614	BELT	1,077		7.5	480/3/60	NOTES #1, 4, 5, 6, 7, 8, 9.
PF-3	CENTRIFUGAL	COOK	CPV-365	ELEVATOR HOISTWAY #1	17000	1.500	6,650	BELT	0,696		7.5	480/3/60	NOTES #1, 4, 5, 6, 7, 8, 9.
PF-4	CENTRIFUGAL	COOK	CPV-365	ELEVATOR HOISTWAY #2	17000	1.500	6,650	BELT	0,696		7.5	480/3/60	NOTES #1, 4, 5, 6, 7, 8, 9.

NOTES:

1. INTERCLOCK FANS WITH FIRE ALARM SYSTEM.

2. THE UNIT MUST WITHSTAND A SPECIFIED ELEVATED AIRSTREAM TEMPERATURE FOR A SPECIFIED DURATION. PREVENT DEBRIS FROM ENTERING THE FAN IN NON-DUCTED APPLICATIONS. 3. THE UNIT MUST BE LISTED UNDER UL 705.

4. AN ACCESS DOOR IS AVAILABLE IN A BOLTED OR HINGED CONFIGURATION.

5. INLET/OUTLET SAFETY SCREENS ARE AVAILABLE TO PROTECT PERSONNEL AND

PREVENT DEBRIS FROM ENTERING THE FAN IN NON-DUCTED APPLICATIONS.

6. INLET/OUTLET SAFETY SCREENS ARE AVAILABLE TO PROTECT PERSONNEL AND 7. BELT GUARDS ARE AVAILABLE WHICH COVER THE SHAFT AND DRIVE COMPONENTS. 8. WEATHER COVERS ARE AVAILABLE TO COMPLETELY ENCLOSE THE MOTOR, SHAFT AND DRIVE COMPONENTS.

9. A DRAIN COUPLING CAN BE LOCATED IN THE BOTTOM OF THE SCROLL HOUSING.

5. PROVIDE FAN WITH MANUFACTURERS BACKDRAFT DAMPER.

Cell: 443-534-7716

6. PROVIDE FAN WITH OFF-WHITE ALUMINUM GRILLE.

8. WILL RUN CONTINUOUSLY.

GR	ILLE AND REGISTER SC	HEDULE	Ē						
MARK	TYPE	MANUF.	MODEL	DESCRIPTION	OPPOSE BLADE DAMPER (OBD)	MATERIAL	MOUNTING	FINISH	REMARKS
A	SUPPLY AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 12"x 12" MODULE	YES	STEEL	LAY-IN	OFF-WHITE	12"X12". PAINT TO MATCH ADJACENT SURFACE.
В	SUPPLY AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 24"x 24" MODULE	YES	STEEL	LAY-IN	OFF-WHITE	24"X24". PAINT TO MATCH ADJACENT SURFACE.
С	RETURN AIR GRILLE	TITUS	PAR	PERFORATED, 24"x 24" MODULE	NO	STEEL	LAY-IN	OFF-WHITE	24"X24". PAINT TO MATCH ADJACENT SURFACE.
C1	RETURN AIR GRILLE	TITUS	PAR	PERFORATED, 12"x 12" MODULE	NO	STEEL	LAY-IN	OFF-WHITE	12"X12". PAINT TO MATCH ADJACENT SURFACE.
D	SUPPLY AIR GRILLE	TITUS	300RL	SIDE THROW	YES	STEEL	SURFACE	OFF-WHITE	24"X8" . PAINT TO MATCH ADJACENT SURFACE.
E	SUPPLY AIR GRILLE	TITUS	300RL	SIDE THROW	YES	STEEL	SURFACE	OFF-WHITE	12"X8" . PAINT TO MATCH ADJACENT SURFACE.
E1	SUPPLY AIR GRILLE	TITUS	300RL	SIDE THROW	YES	STEEL	SURFACE	OFF-WHITE	20"X30". PAINT TO MATCH ADJACENT SURFACE.
E2	SUPPLY AIR GRILLE	TITUS	300RL	SIDE THROW	YES	STEEL	SURFACE	OFF-WHITE	18"X30". PAINT TO MATCH ADJACENT SURFACE.
F	EXHAUST AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 12"x 12" MODULE	YES	STEEL	LAY-IN	OFF-WHITE	12"X12". PAINT TO MATCH ADJACENT SURFACE.
F1	EXHAUST AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 24"x 24" MODULE	YES	STEEL	LAY-IN	OFF-WHITE	24"X24". PAINT TO MATCH ADJACENT SURFACE.
G	SUPPLY AIR DIFFUSER	TITUS	ML-40	STRAIGHT 3-SLOT DIFFUSER	YES	STEEL	LAY-IN	OFF-WHITE	48" LENGTH. PAINT TO MATCH ADJACENT SURFACE.
G1	EXHAUST AIR DIFFUSER	TITUS	CT-480	LINER BAR DIFFUSER	YES	STEEL	LAY-IN	OFF-WHITE	48" LENGTH. PAINT TO MATCH ADJACENT SURFACE.
Н	SUPPLY AIR DIFFUSER	TITUS	CT-480	LINER BAR DIFFUSER	YES	STEEL	LAY-IN	OFF-WHITE	6"X4" . PAINT TO MATCH ADJACENT SURFACE.

MAKE-	UP AIR F/	AN						
					MIN. CA	PACITY	TID	
MARK	TYPE	MANUF.	MODEL #	AREA SERVED	C.F.M.	S.P.	TIP SPEED	DRIVE
SF-1	INLINE	СООК	GN-862	GENERATOR RM.	995	.500		DIRECT
				LL MOUNTED THE BACKDRAFT DAM				VIDE FAN W Rlock With

OUTDOOR AIR CALCULATION

EXHAUST AIR QUANTITIES

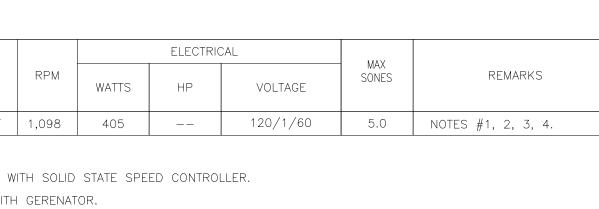
CONTINUOUS EXHAUST AIR: A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES:

B) PUBLIC RESTROOM

- C) RESTROOM
- D) UNISEX RESTROOM, STORAGE
- E) WATER HEATER RM.
- F) DRYER RM.
- G) POOL EQUIP. RM.
- H) POOL DESK
- I) TRASH. RM.
- K) REFRESH 1404 & STORAGE 1406
- L) BAR, GENERATOR
- M) FIRE PUMP ROOM
- N) RE-CHARGE ROOM
- 0) KITCHEN ROOM
- P) REFRESH ROOM
- Q) BOH BAR ROOM

MAKE-UP AIR QUANTITIES AND SOURCE

A) OUTSIDE AIR SERVED FOR GUESTROOMS AND G B) OUTSIDE AIR TO ALL SPLIT SYSTEMS AT BASEM C) OUTSIDE AIR SERVED FOR INDOOR POOL:



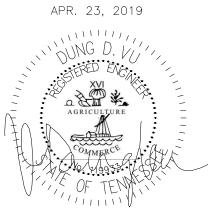
10	@ 385 CFM = 3850
1	@ 285 CFM = 285
2	@ 392 CFM = 784
2	@ 108 CFM = 216
4	@ 50 CFM = 200
1	@ 392 CFM = 392
1	@ 392 CFM = 392
1	@ 314 CFM = 314
1	@ 1156 CFM = 1156
1	@ 250 CFM = 250
2	@ 133 CFM = 266
2	@ 339 CFM = 678
1	@ 201 CFM = 201
1	@ 775 CFM = 775
1	@ 340 CFM = 340
10	@ 392 CFM = 3920
1	@ 162 CFM = 162

TOTAL EXHAUST AIR CFM = 13789

GUEST EMENT,	 	 PENTHOUSE	FLOOR:	1447(393(75)

.:	,,						750
	TOTAL	MAKE-	-UP	AIR	CFM	=	18400

MAKE-UP AIR > EXHAUST AIR => POSITIVE BUILDING PRESSURIZATION (329 CFM EACH FLOOR IF ALL INTERMITTENT EXHAUST IS OPERATING AT THE SAME TIME)



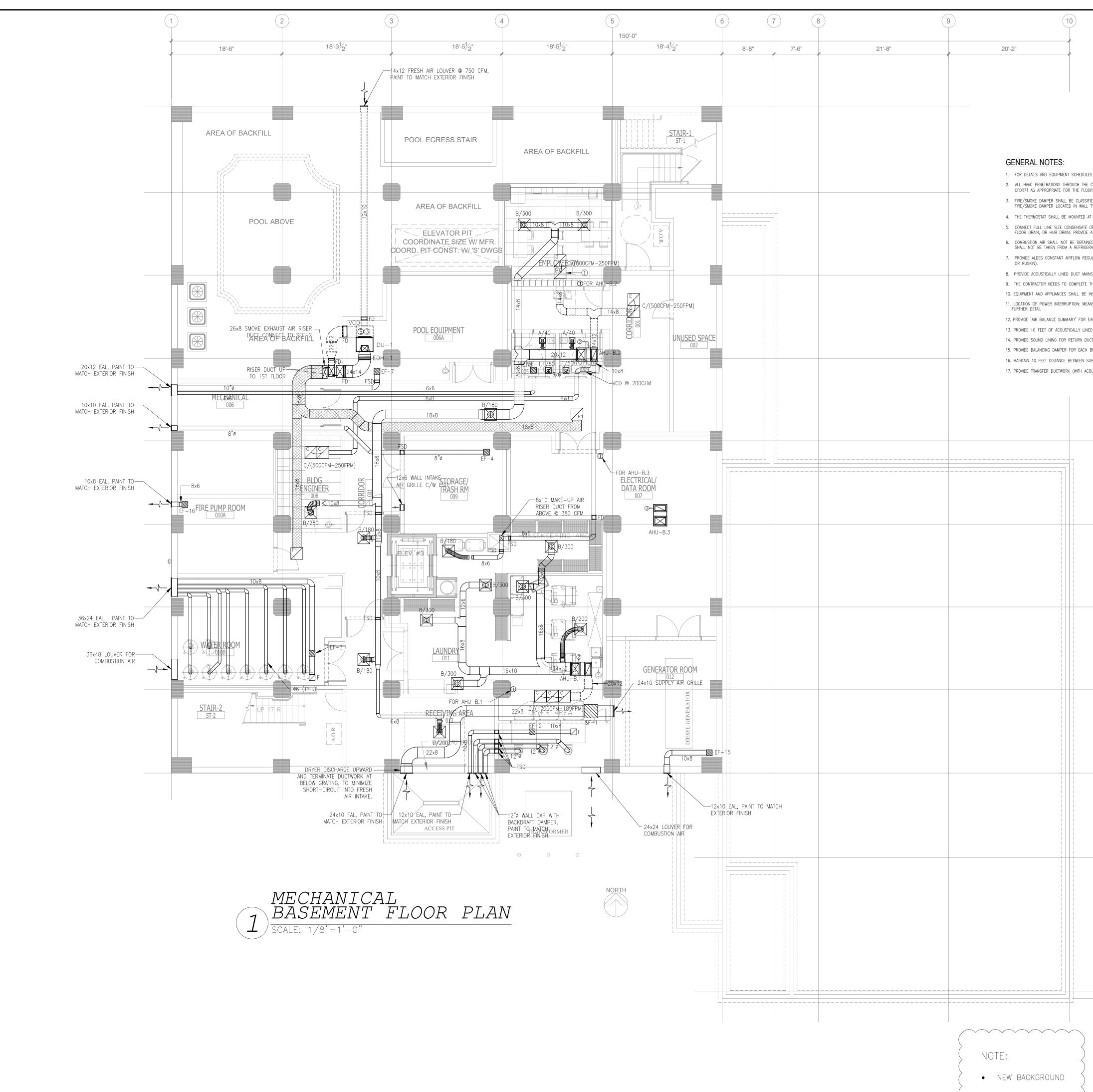
		PROJECT NO.: 16
		DATE: 2-21-2018
		DRAWN BY: PL
[IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)	CHKD. BY: DV
	 IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT. 	TECHNICAL S
	 AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION. 	SHEET

NO.	DESCRIPTION	DATE	В
-	ISSUED FOR DEMOLITION	06/09/17	Pl
1	ISSUED TO FRANCHISE	06/09/17	Ρ
-	ISSUED FOR BID (ID ONLY)	07/21/17	Ρ
-	ISSUED TO FRANCHISE	08/17/17	Ρ
-	ISSUED FOR PERMIT	08/04/17	P
-	FOR FINAL APPROVAL	10/02/17	Ρ
-	ISSUED FOR PERMIT	/ 28/ 7	P
	ISSUED FOR PERMIT	2/21/18	Pl
_	ISSUED FOR FRANCHISE	03/24/18	Ρ
	ARCHITECTUI URBAN PLANN INTERIORS DTELS/ HOUSING/ M 1800.630.3750 CA-SERVICE a@mwtusa.com / 1800	ING IIXED U) S	

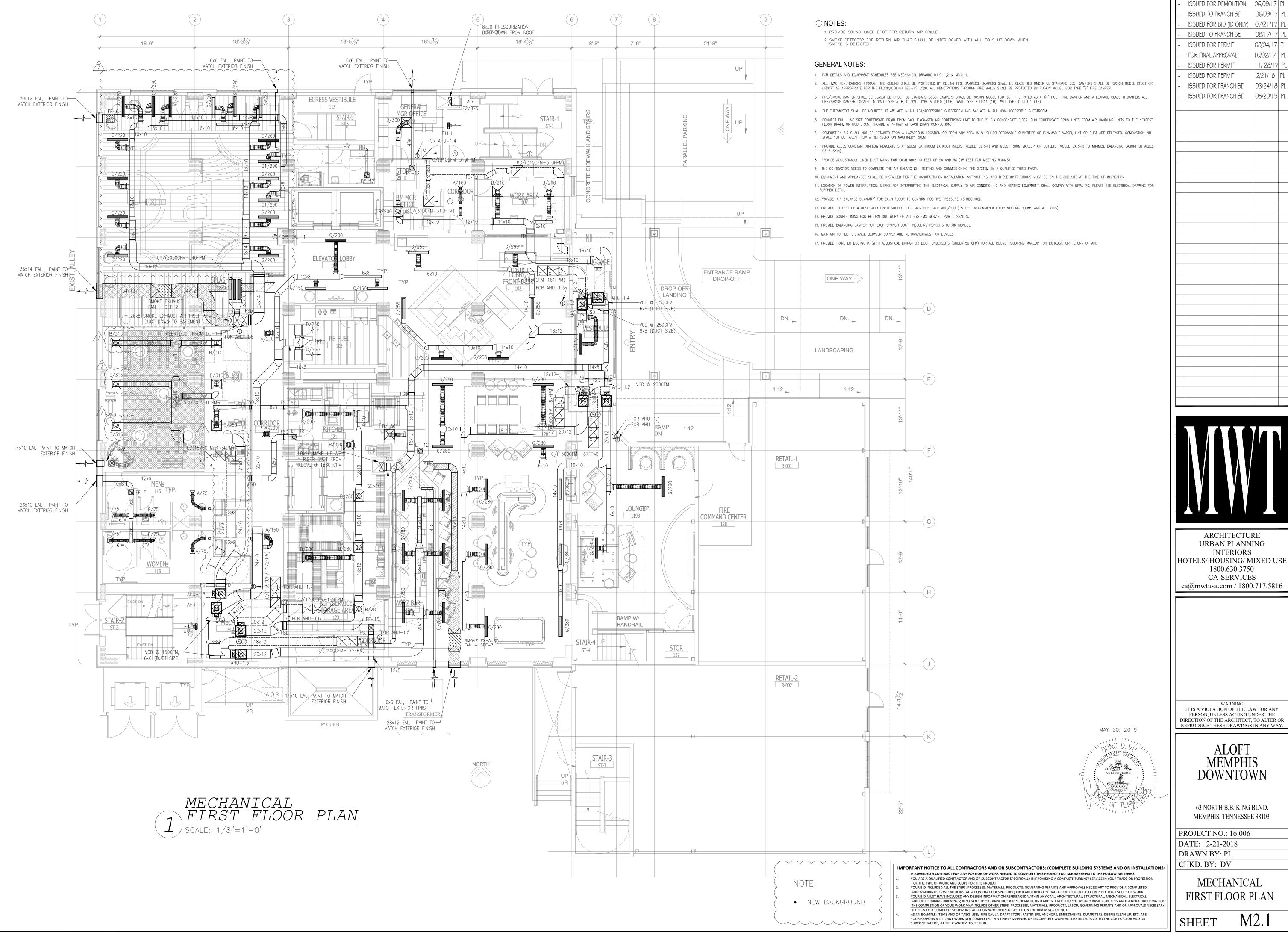
MEMPHIS, TENNESSEE 38103 JECT NO.: 16 006 E: 2-21-2018 WN BY: PL

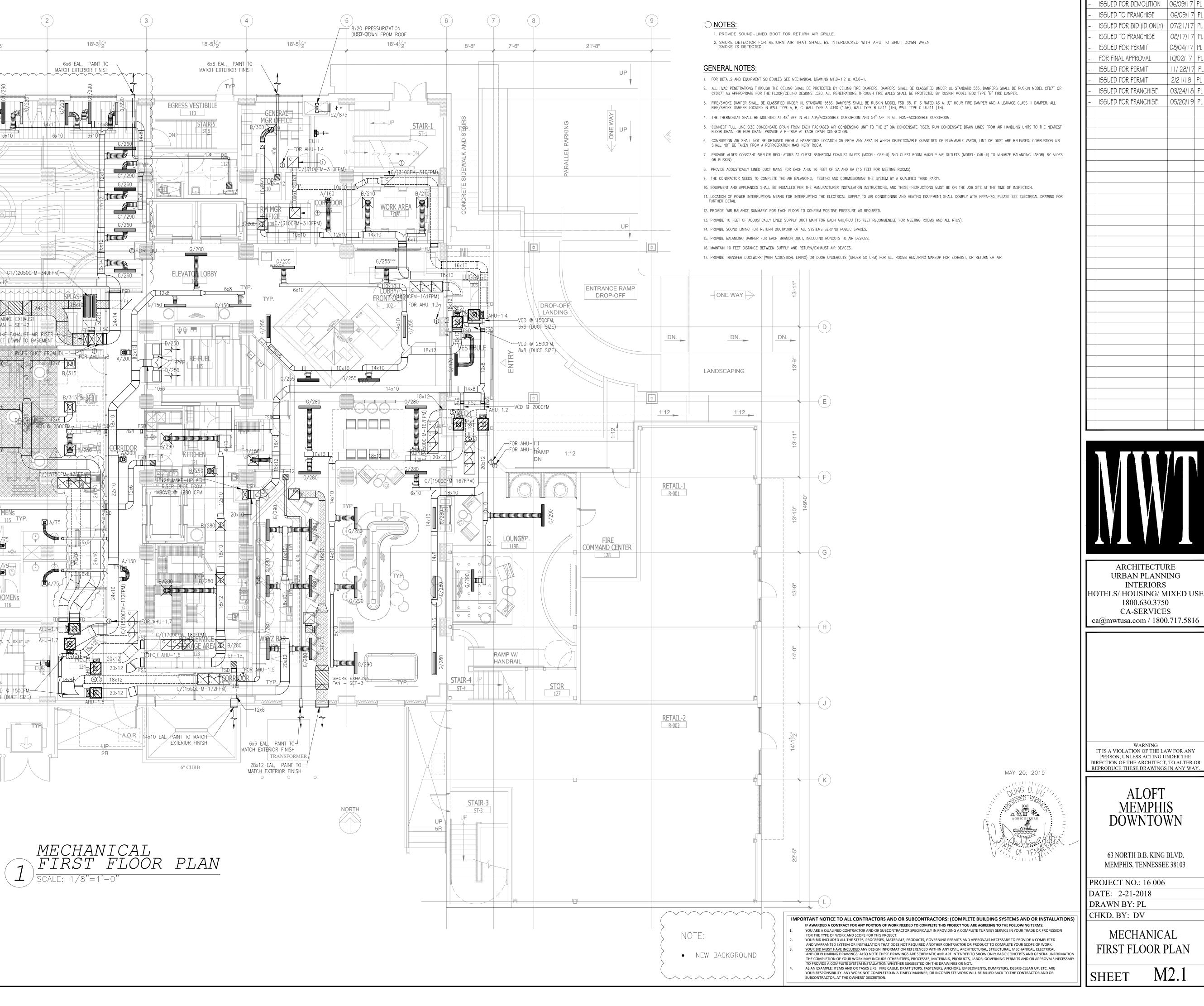
HNICAL SCHEDULE

M1.2



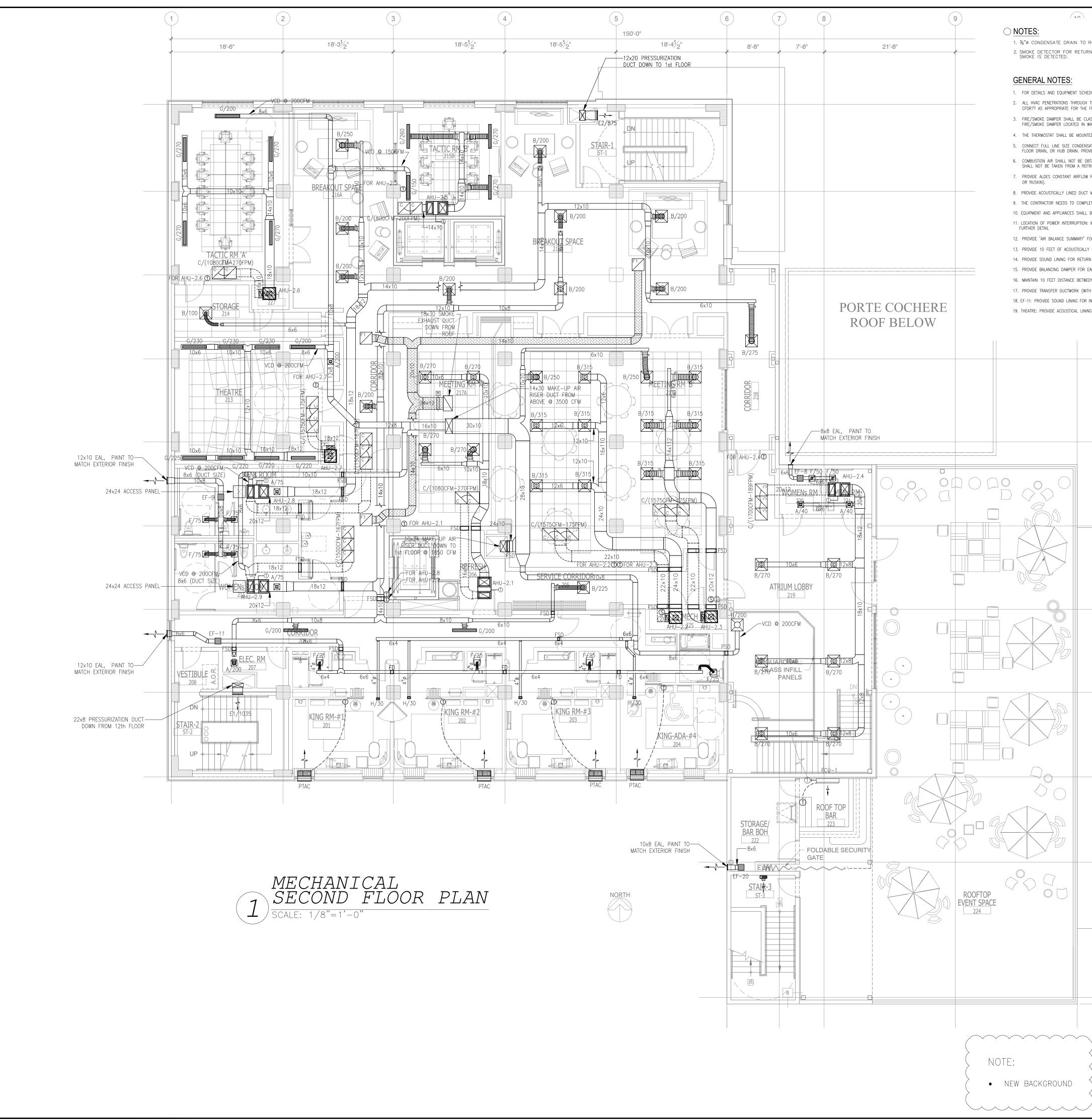
			NO. - - - - - - - - -	DESCRIPTION ISSUED FOR DEMOLITION ISSUED TO FRANCHISE ISSUED FOR BID (ID ONLY) ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT ISSUED FOR FRANCHISE ISSUED FOR FRANCHISE	DATE E OG/09/17 F OG/09/17 F O7/21/17 F O8/04/17 F 08/04/17 F 10/02/17 F 11/28/17 F 2/21/18 F 03/24/18 F 05/20/19 F	PL PL PL PL PL
THE CEILING SH FLOOR/CEILING SSIFIED UNDER ALL TYPE A, B, CD AT 48" AFF TE DRAIN FROM TIDE A P-TRAP TAINED FROM A RIGERATION MACH REGULATORS AT MAINS FOR EAC CTE THE AIR BAI BE INSTALLED P	ALL BE PR DESIGNS L UL STANDA C. WALL T IN ALL ADA M EACH PAN AT EACH D HAZARDOU HINERY ROO GUEST BA CH AHU: 10 LANCING, PER THE MA	RAWING M1.0-1,2 & M3.0-1. OTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555. DAMPERS SHALL BE RUSKIN MODEL CFD7T OR 528. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL IBD2 TYPE "B" FIRE DAMPER. RID 555S. DAMPERS SHALL BE RUSKIN MODEL FSD-35. IT IS RATED AS A 1½" HOUR FIRE DAMPER AND A LEAKAGE CLASS III DAMPER. ALL YPE A U340 (1.5H), WALL TYPE B U314 (1H), WALL TYPE C U.311 (1H). V/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM. CKAGED AIR CONDENSING UNIT TO THE 2" DIA CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST RAIN CONNECTION. S LOCATION OR FROM ANY AREA IN WHICH OBJECTIONABLE QUANTITIES OF FLAMMABLE VAPOR, LINT OR DUST ARE RELEASED. COMBUSTION AIR M. THROOM EXHAUST INLETS (MODEL: CER-II) AND GUEST ROOM MAKEUP AIR OUTLETS (MODEL: CAR-II) TO MINIMIZE BALANCING LABOR(BY ALDES FEET OF SA AND RA (15 FEET FOR MEETING ROOMS). TESTING AND COMMISSIONING THE SYSTEM BY A QUALIFIED THIRD PARTY. NUFFACTURER INSTALLATION INSTRUCTIONS, AND THESE INSTRUCTIONS MUST BE ON THE JOB SITE AT THE TIME OF INSPECTION. THE ELECTRICAL SUPPLY TO AIR CONDITIONING AND HEATING EQUIPMENT SHALL COMPLY WITH NFPA-70. PLEASE SEE ELECTRICAL DRAWING FOR				
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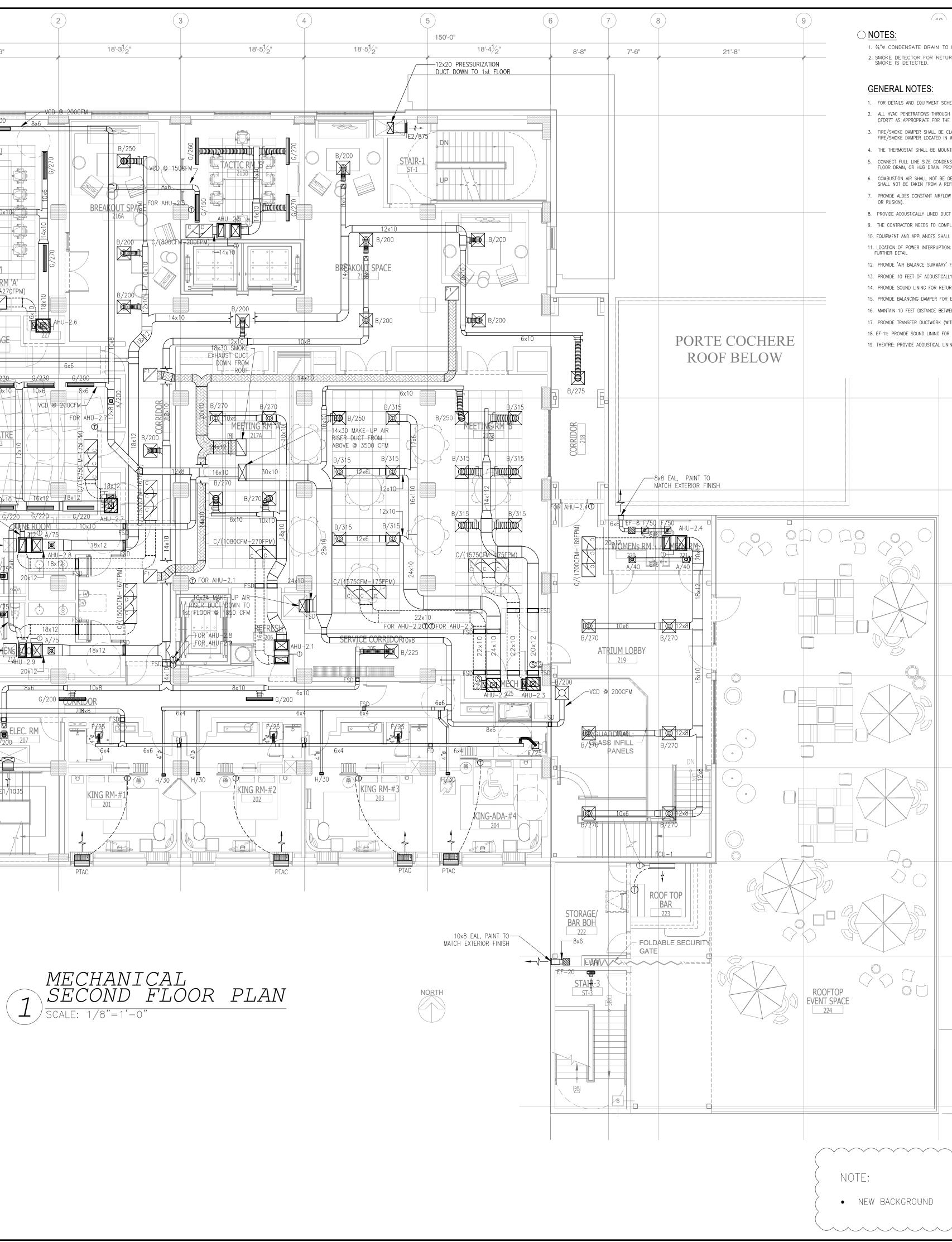




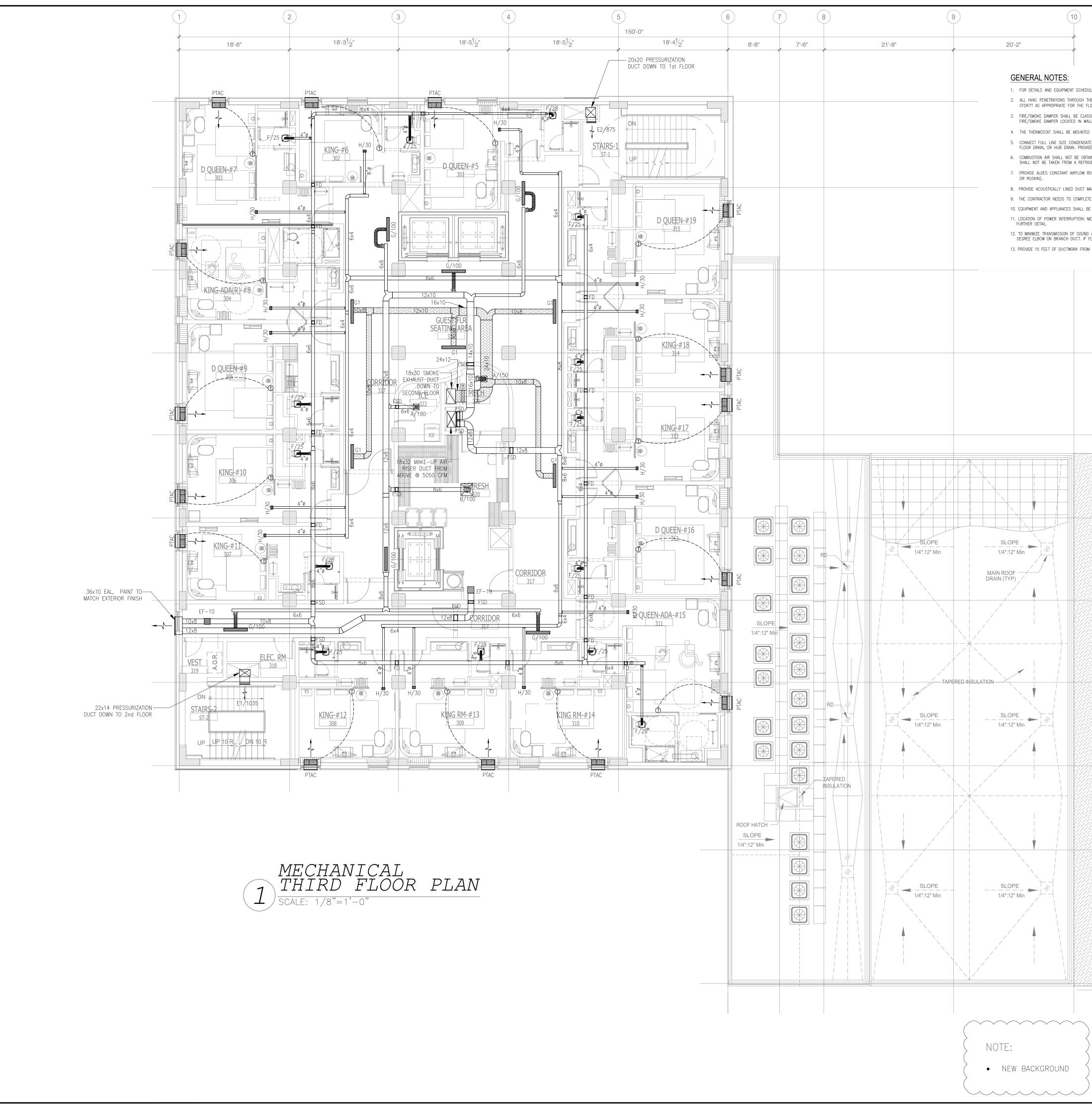
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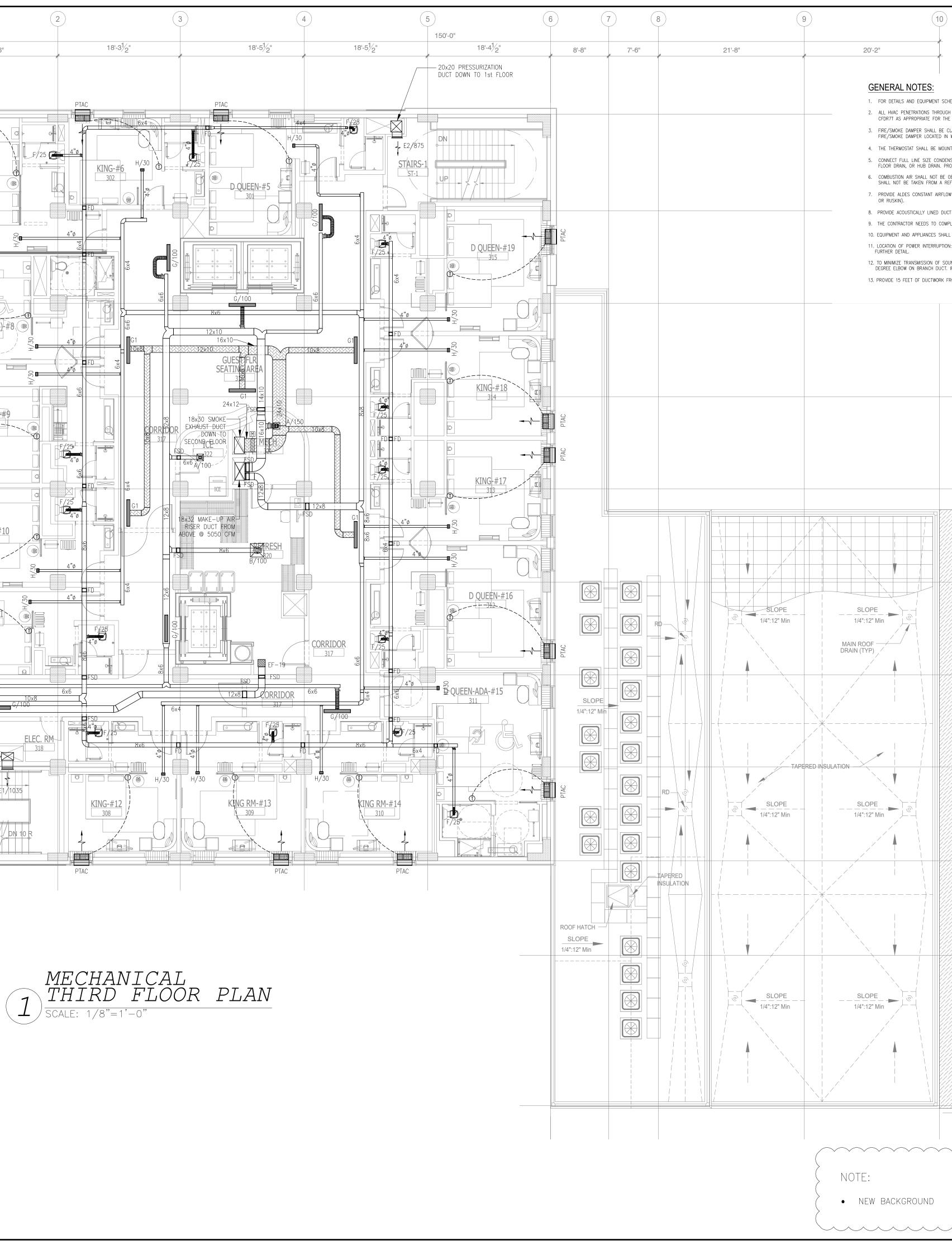
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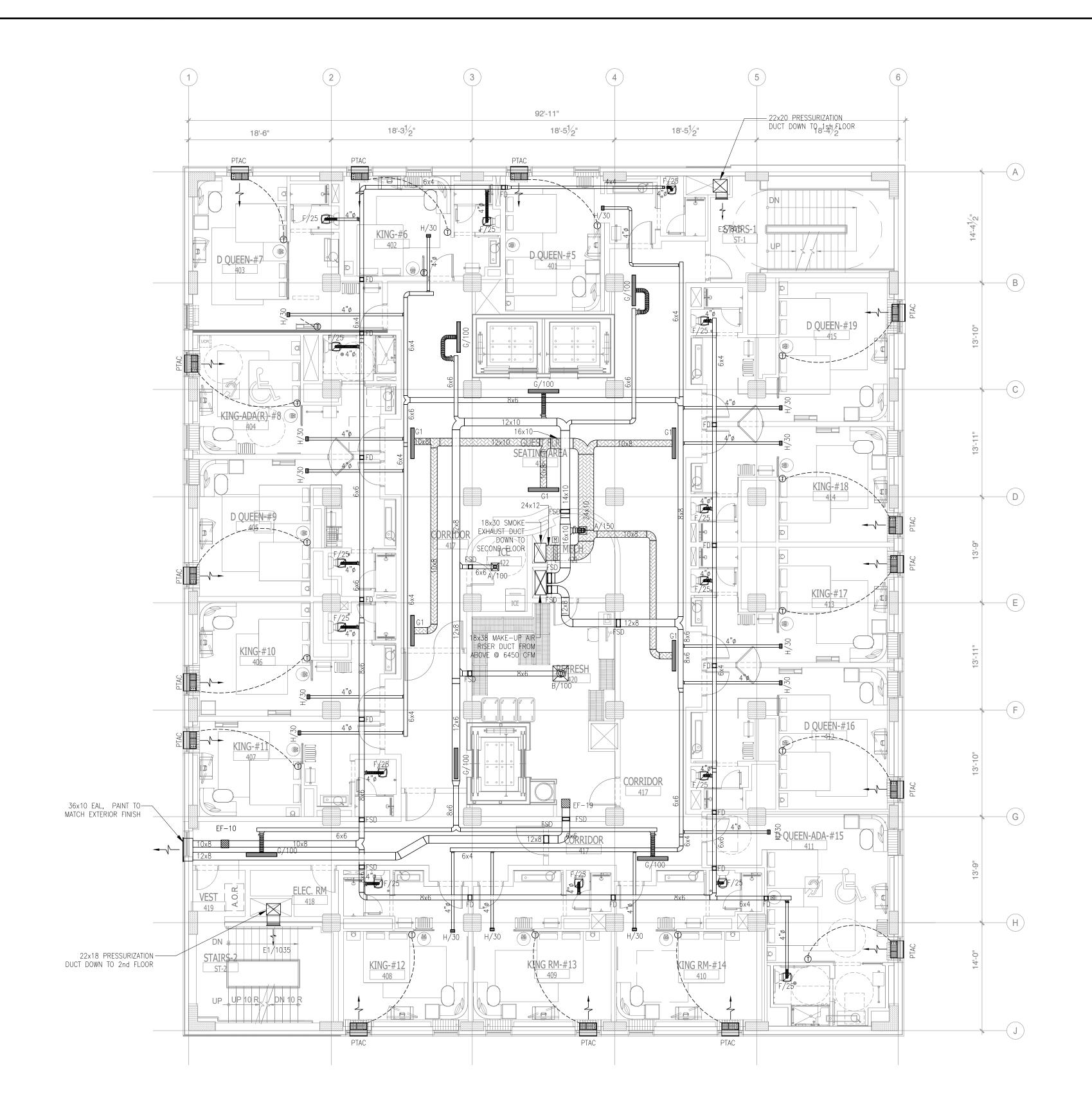


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D ROUTE TO NEAREST LAVATORY'S TAIL PIECES (TYP.) URN AIR THAT SHALL BE INTERLOCKED WITH AHU TO SHUT DOWN WHEN	- ISSUED FOR DEMOLITION 06/09/17 PL - ISSUED TO FRANCHISE 06/09/17 PL - ISSUED FOR BID (ID ONLY) 07/21/17 PL - ISSUED TO FRANCHISE 08/17/17 PL - ISSUED FOR PERMIT 08/04/17 PL
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141-0"	CA-SERVICES ca@mwtusa.com / 1800.717.5816
APR. 23, 2019	WARNING IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.
ISO SEPERATION AGRICULTURE	ALOFT MEMPHIS DOWNTOWN
L	63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103 PROJECT NO.: 16 006 DATE: 2-21-2018
IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS: IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: 1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT. 2. YOUB BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK. 3. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL	DRAWN BY: PL CHKD. BY: DV MECHANICAL SECOND FLOOR PLAN
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				NO	DESCRIPTION	DATE	BY
				-	ISSUED FOR DEMOLITION	06/09/17	
				-	ISSUED TO FRANCHISE	06/09/17	7 PL
				-	ISSUED FOR BID (ID ONLY)	07/21/17	
				-	ISSUED TO FRANCHISE	08/17/17 08/04/17	
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			o feet of sa and ra (15 feet for meeting rooms). Testing and commissioning the system by a qualified third party.				
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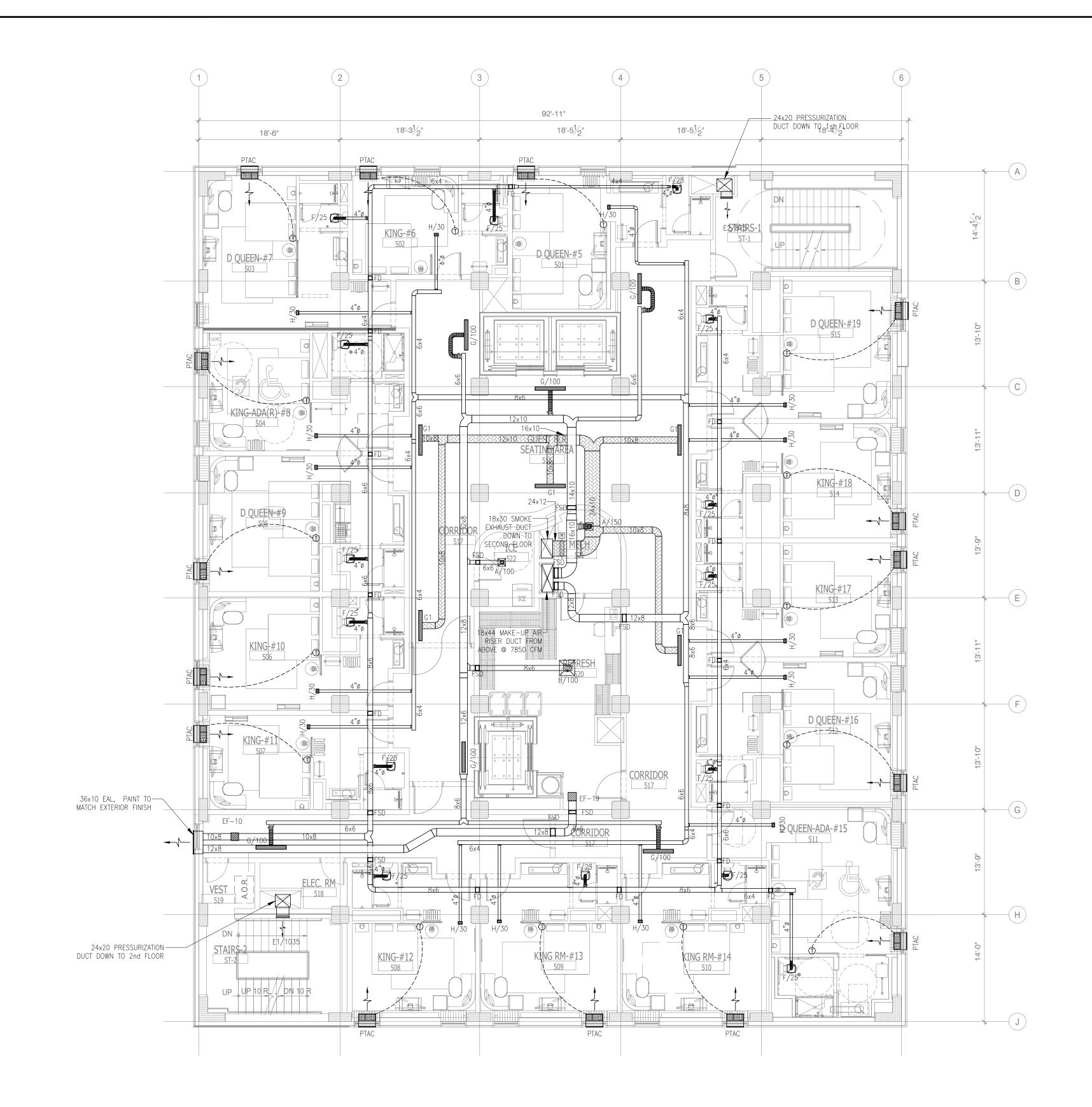


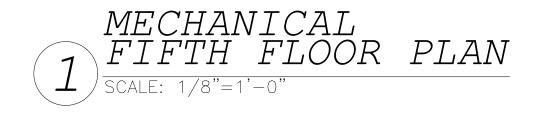
- FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRA
 ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PRO CFDR7T AS APPROPRIATE FOR THE FLOOR/CEILING DESIGNS L52
- FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDAF FIRE/SMOKE DAMPER LOCATED IN WALL TYPE A, B, C. WALL TY
- 4. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA
- 5. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PAC FLOOR DRAIN, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DR
- 6. COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROO
- PROVIDE ALDES CONSTANT AIRFLOW REGULATORS AT GUEST BATH OR RUSKIN).
- 8. PROVIDE ACOUSTICALLY LINED DUCT MAINS FOR EACH AHU: 10 F
- 9. THE CONTRACTOR NEEDS TO COMPLETE THE AIR BALANCING,
- 10. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED PER THE MAN 11. LOCATION OF POWER INTERRUPTION: MEANS FOR INTERRUPTING T
- 11. LOCATION OF POWER INTERRUPTION: MEANS FOR INTERRUPTING FURTHER DETAIL.
- TO MINIMIZE TRANSMISSION OF SOUND ACROSS GUESTROOMS, EI DEGREE ELBOW ON BRANCH DUCT. IF FLEXIBLE DUCTS ARE USED
 PROVIDE 15 FEET OF DUCTWORK FROM INLET OF EACH INLINE E

NOTE:

• NEW BACKGROUND

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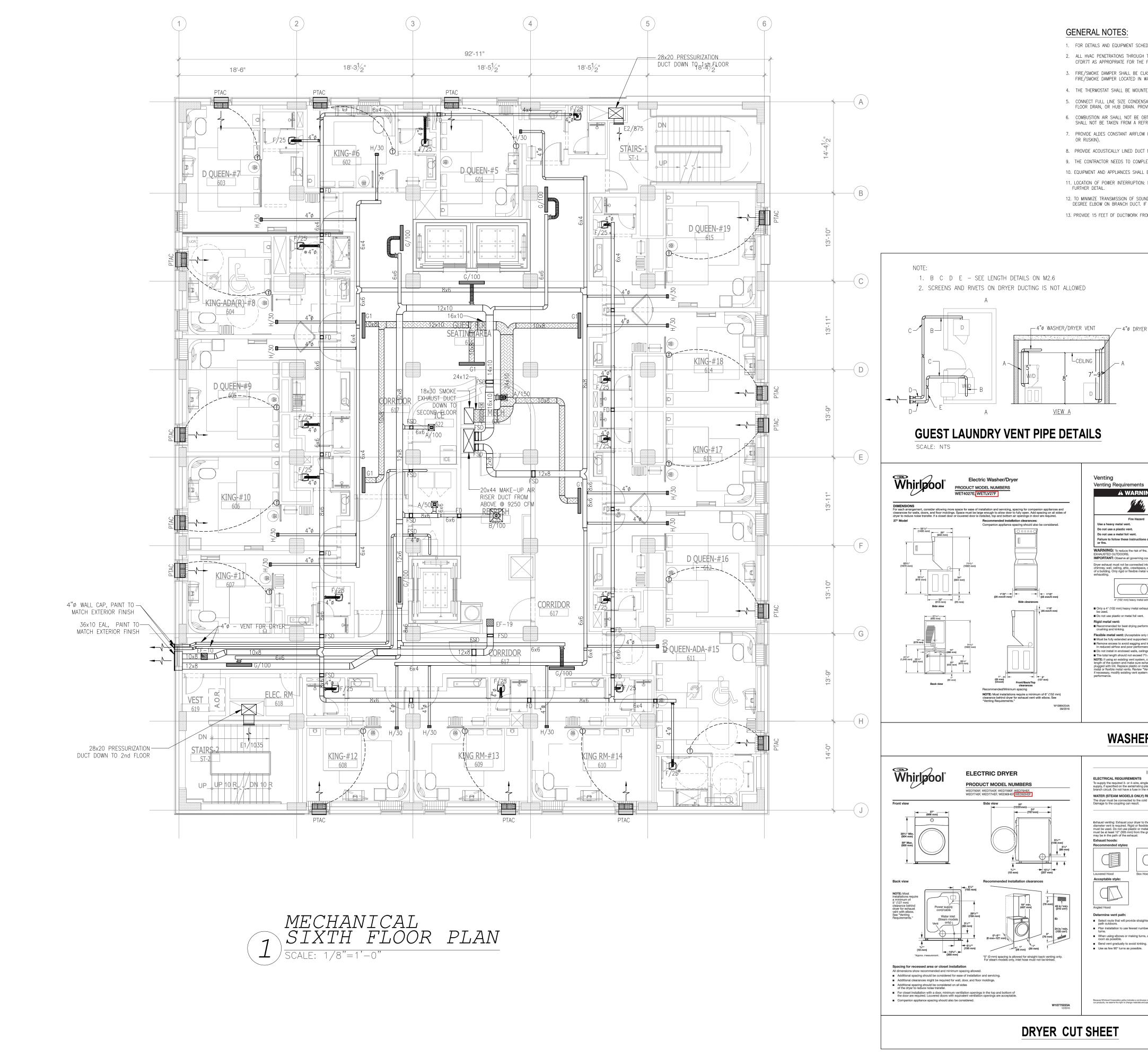


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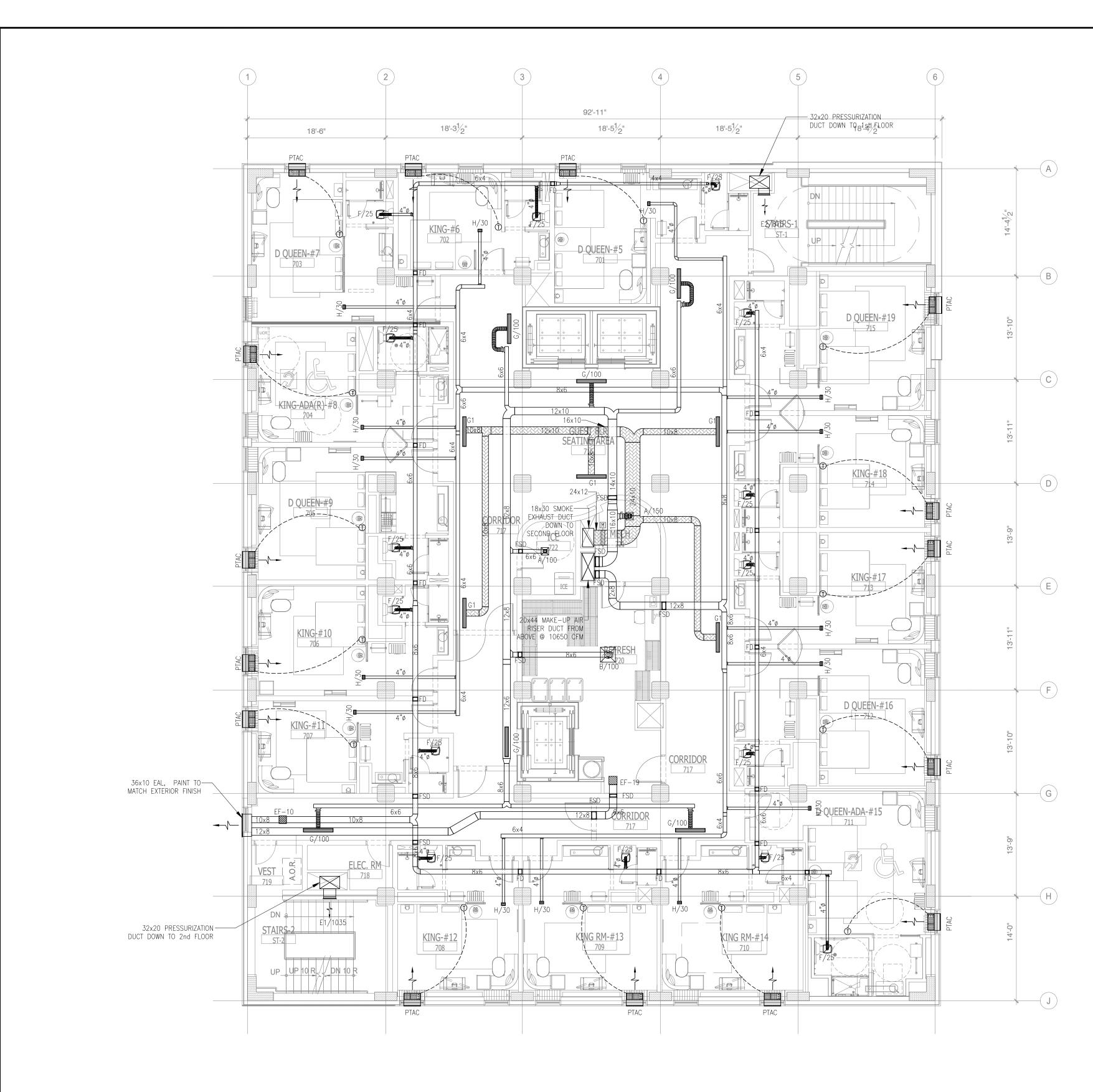
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	ARCHITECTURE
	URBAN PLANNING INTERIORS
	HOTELS/ HOUSING/ MIXED USE 1800.630.3750
	CA-SERVICES ca@mwtusa.com / 1800.717.5816
	WARNING
	IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE
APR. 23, 2019	DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.
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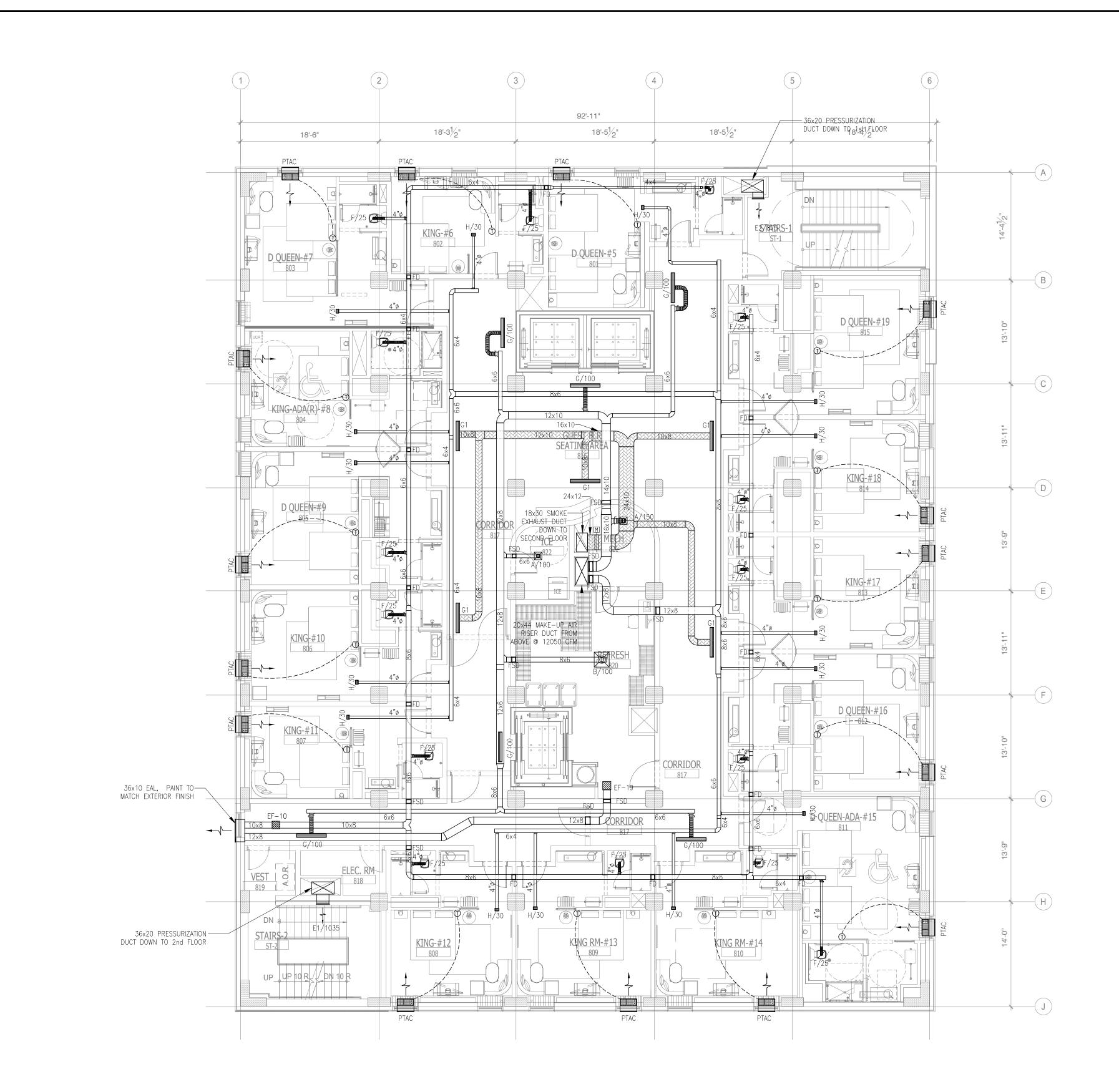




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	Ca	1800.630.375 CA-SERVICE a@mwtusa.com / 1800	ŚŚ	6
APR. 23, 2019	DI	WARNING T IS A VIOLATION OF THE LA PERSON, UNLESS ACTING U RECTION OF THE ARCHITECT PRODUCE THESE DRAWINGS	NDER THE , TO ALTER (OR
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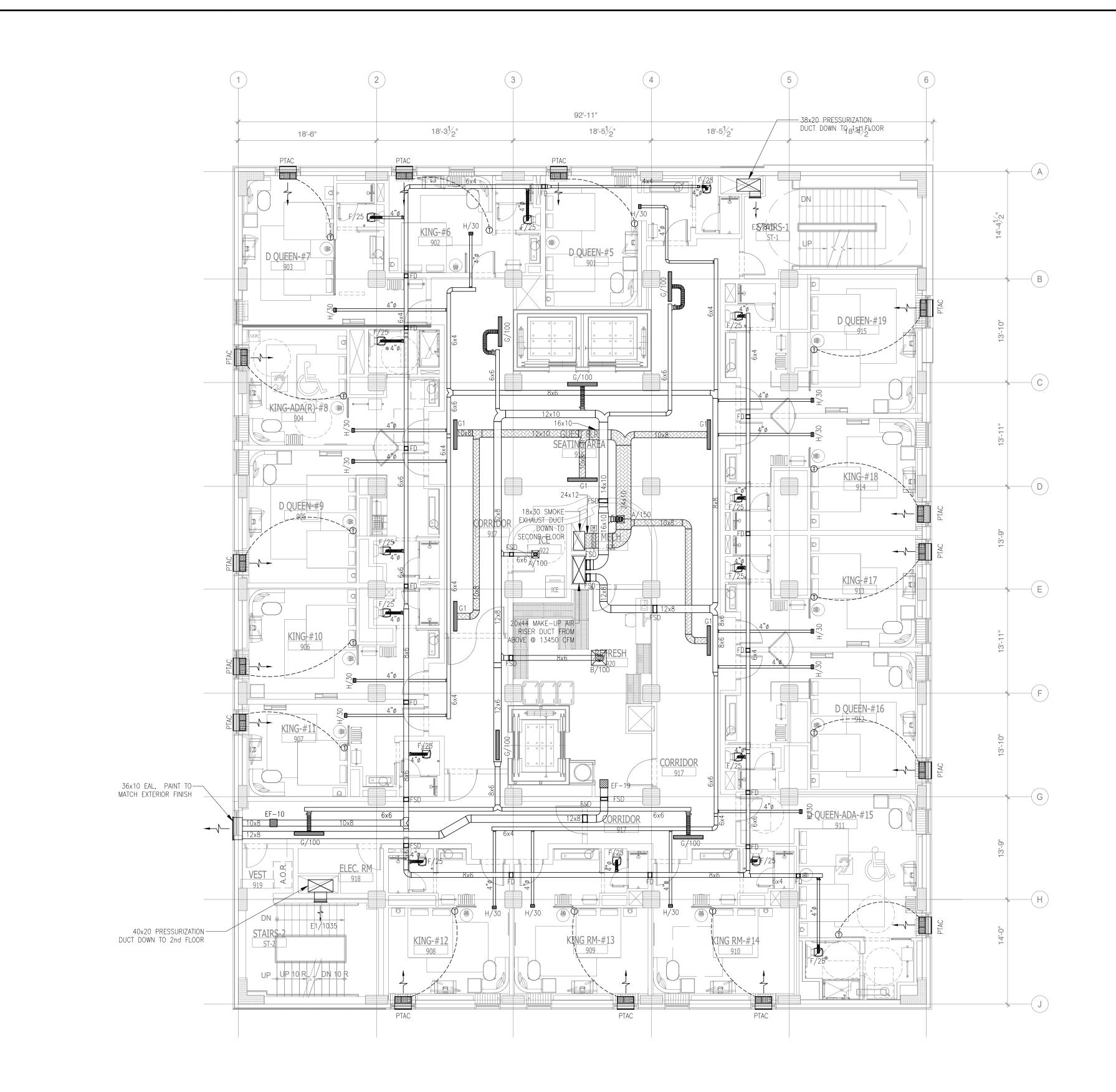




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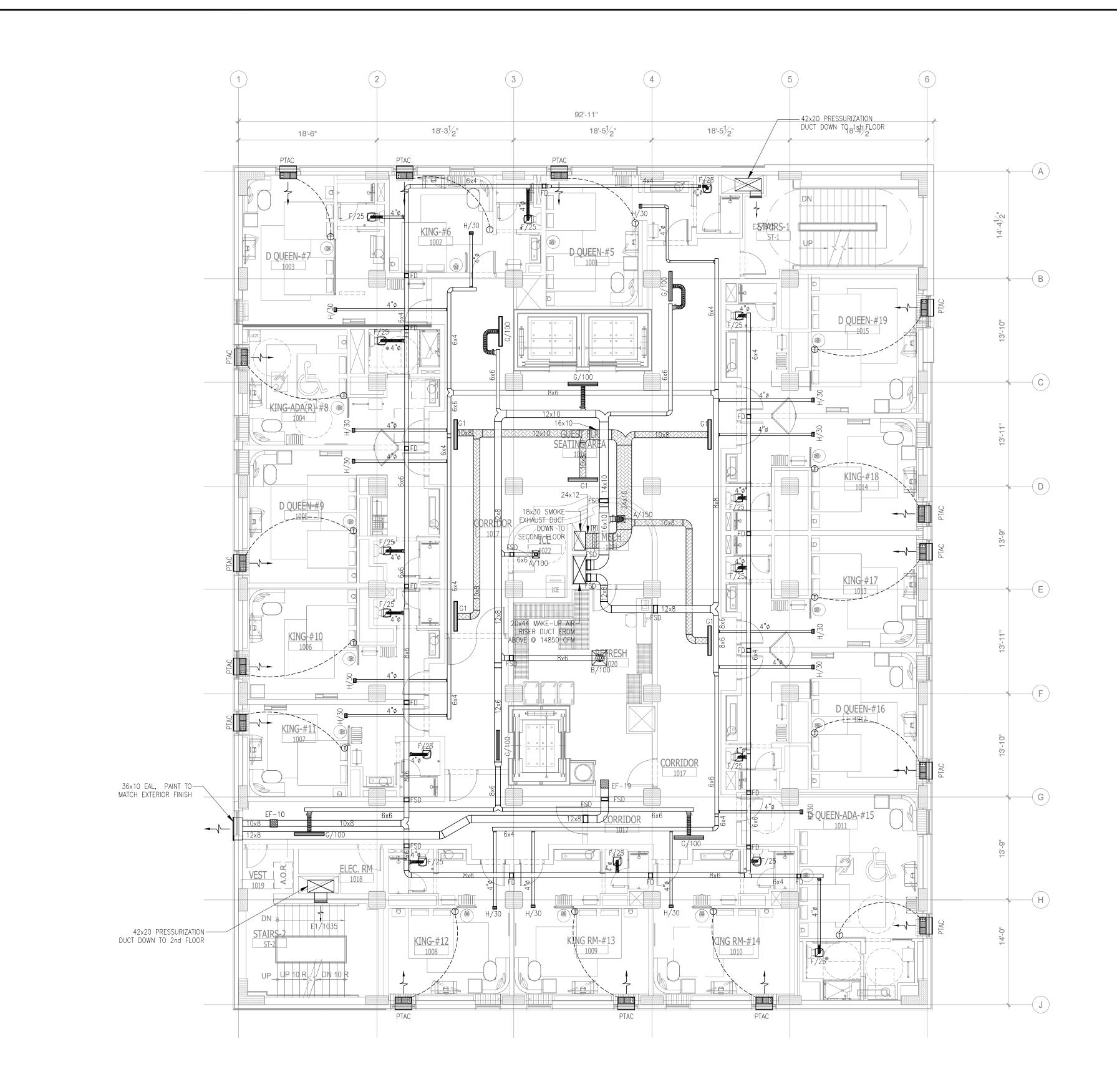




- 1. FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRAWI ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PROTEC CFDR7T AS APPROPRIATE FOR THE FLOOR/CEILING DESIGNS L528.
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- 4. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/AG
- CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKA FLOOR DRAIN, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DRAIL
- COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS L SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROOM.
- PROVIDE ALDES CONSTANT AIRFLOW REGULATORS AT GUEST BATHRE OR RUSKIN).
- 8. PROVIDE ACOUSTICALLY LINED DUCT MAINS FOR EACH AHU: 10 FE 9. THE CONTRACTOR NEEDS TO COMPLETE THE AIR BALANCING, T
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NOTE: • NEW BACKGROUND

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	SUBCONTRACTOR, AT THE OWNERS' DISCRETION.	SHEET M2.9

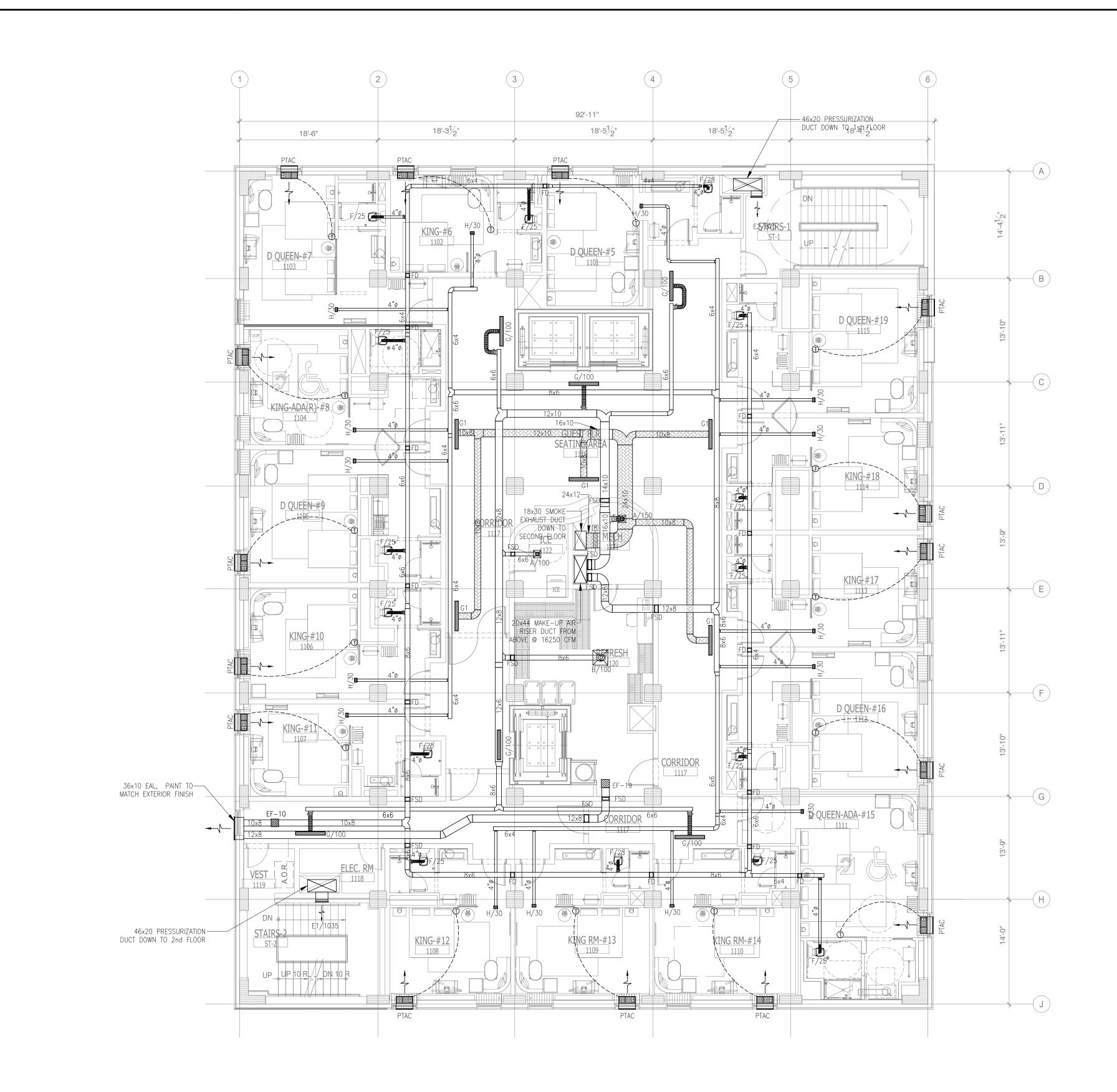




- 1. FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRAW ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PRO CFDR7T AS APPROPRIATE FOR THE FLOOR/CEILING DESIGNS L52
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- 5. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PAC FLOOR DRAIN, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DF
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	ISSUED FOR DEMOLITION 06/09/17 PL ISSUED TO FRANCHISE 06/09/17 PL
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	- ISSUED TO FRANCHISE 08/17/17 PL
GENERAL NOTES:	-ISSUED FOR PERMIT08/04/17PL-FOR FINAL APPROVAL10/02/17PL
1. FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRAWING M1.0-1,2 & M3.0-1.	- ISSUED FOR PERMIT 1 / 28/17 PL
 ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PROTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555. DAMPERS SHALL BE RUSKIN MODEL CFD7T OR CFDR7T AS APPROPRIATE FOR THE FLOOR/CEILING DESIGNS L528. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL IBD2 TYPE "B" FIRE DAMPER. EIRE (SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555. DAMPERS SHALL BE PROTECTED BY RUSKIN MODEL IBD2 TYPE "B" FIRE DAMPER. 	- ISSUED FOR PERMIT 2/21/18 PL
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 THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKAGED AIR CONDENSING UNIT TO THE 2" DIA CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST DRAIN OF UNITS DO U	- ISSUED FOR FRANCHISE 05/20/19 PL
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13. PROVIDE 15 FEET OF DUCTWORK FROM INLET OF EACH INLINE EXHAUST FAN DUE TO ITS HIGH NOISE LEVEL (OVER 4.5 SONES).	
	ARCHITECTURE URBAN PLANNING
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	1800.630.3750
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OF TEL IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIO	DOWNTOWN63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103PROJECT NO.: 16 006DATE: 2-21-2018DRAWN BY: PLCHKD BY: DV
IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: 1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION	DOWNTOWN63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103PROJECT NO.: 16 006DATE: 2-21-2018DRAWN BY: PLCHKD. BY: DV
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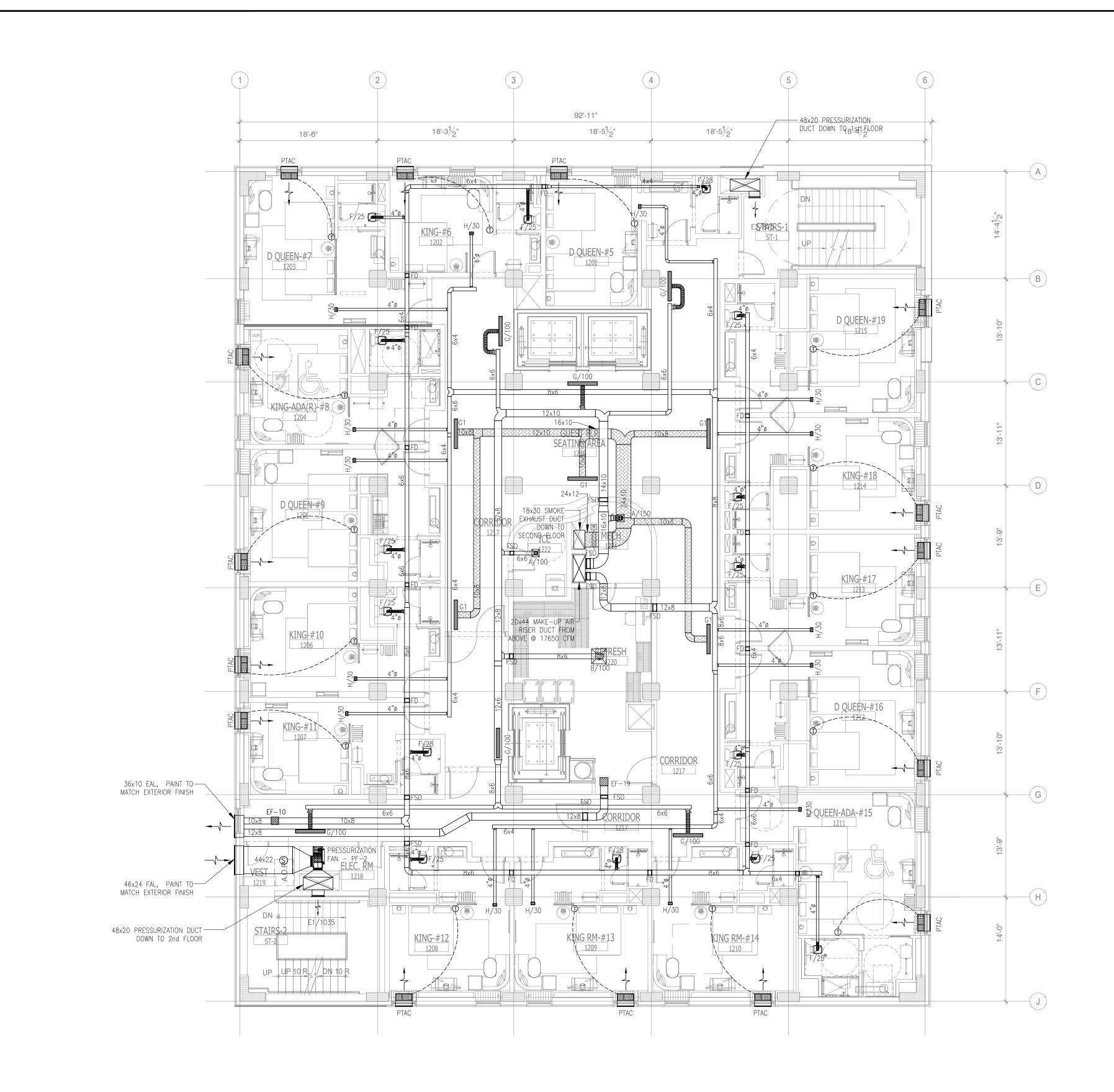


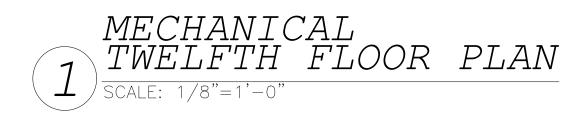


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 - 13. PROVIDE 15 FEET OF DUCTWORK FROM INLET OF EACH INLINE F

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OF EACH INLINE EXHAUST FAN DUE TO ITS HIGH NOISE LEVEL (OVER 4.5 SONES).	
	ARCHITECTURE URBAN PLANNING INTERIORS HOTELS/ HOUSING/ MIXED USE 1800.630.3750 CA-SERVICES ca@mwtusa.com / 1800.717.5816
APR. 23, 2019	WARNING IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.
AGRICULTURE	ALOFT MEMPHIS DOWNTOWN
14 1 C. A. A. B. S. A. A. B. S. A. S. A. B. S. S. A. B. S. S. A. B. S. S. S. A. B. S. S. A. B. S. S. A. B. S.	63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103
OF TENNIN	PROJECT NO.: 16 006
IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS (COMPLETE RUILDING SYSTEMS AND OP INSTALLATIONS)	PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV
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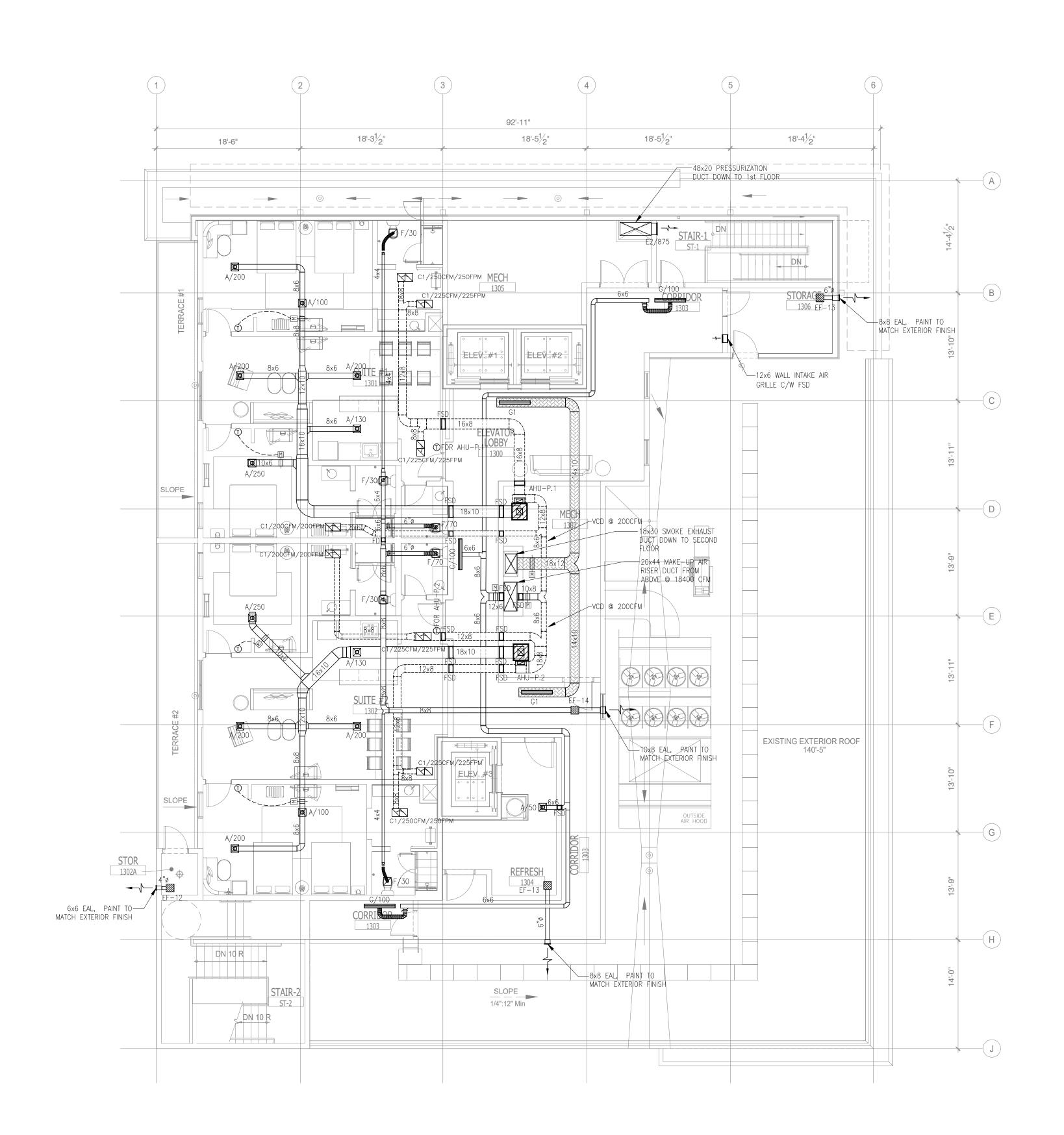




- FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRAW
 ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PROTE CFDR7T AS APPROPRIATE FOR THE FLOOR/CEILING DESIGNS L528
- 3. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDAR FIRE/SMOKE DAMPER LOCATED IN WALL TYPE A, B, C. WALL TYP
- 4. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/AC
- CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACK FLOOR DRAIN, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DR
- COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROOM.
- PROVIDE ALDES CONSTANT AIRFLOW REGULATORS AT GUEST BATHF OR RUSKIN).
- PROVIDE ACOUSTICALLY LINED DUCT MAINS FOR EACH AHU: 10 FE
 THE CONTRACTOR NEEDS TO COMPLETE THE AIR BALANCING, TES
- 10. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED PER THE MANU
- 11. LOCATION OF POWER INTERRUPTION: MEANS FOR INTERRUPTING FURTHER DETAIL.
- 12. TO MINIMIZE TRANSMISSION OF SOUND ACROSS GUESTROOMS, EIT DEGREE ELBOW ON BRANCH DUCT. IF FLEXIBLE DUCTS ARE USED
- 13. PROVIDE 15 FEET OF DUCTWORK FROM INLET OF EACH INLINE EX

NOTE:

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	-	ISSUED FOR DEMOLITION	06/09/17 PL 06/09/17 P	
	-	ISSUED FOR BID (ID ONLY)		_
	-	ISSUED TO FRANCHISE	08/17/17 P	
	-	ISSUED FOR PERMIT	08/04/17 Pl	_
SEE MECHANICAL DRAWING M1.0-1,2 & M3.0-1.	-	FOR FINAL APPROVAL	10/02/17 P 11/28/17 P	_
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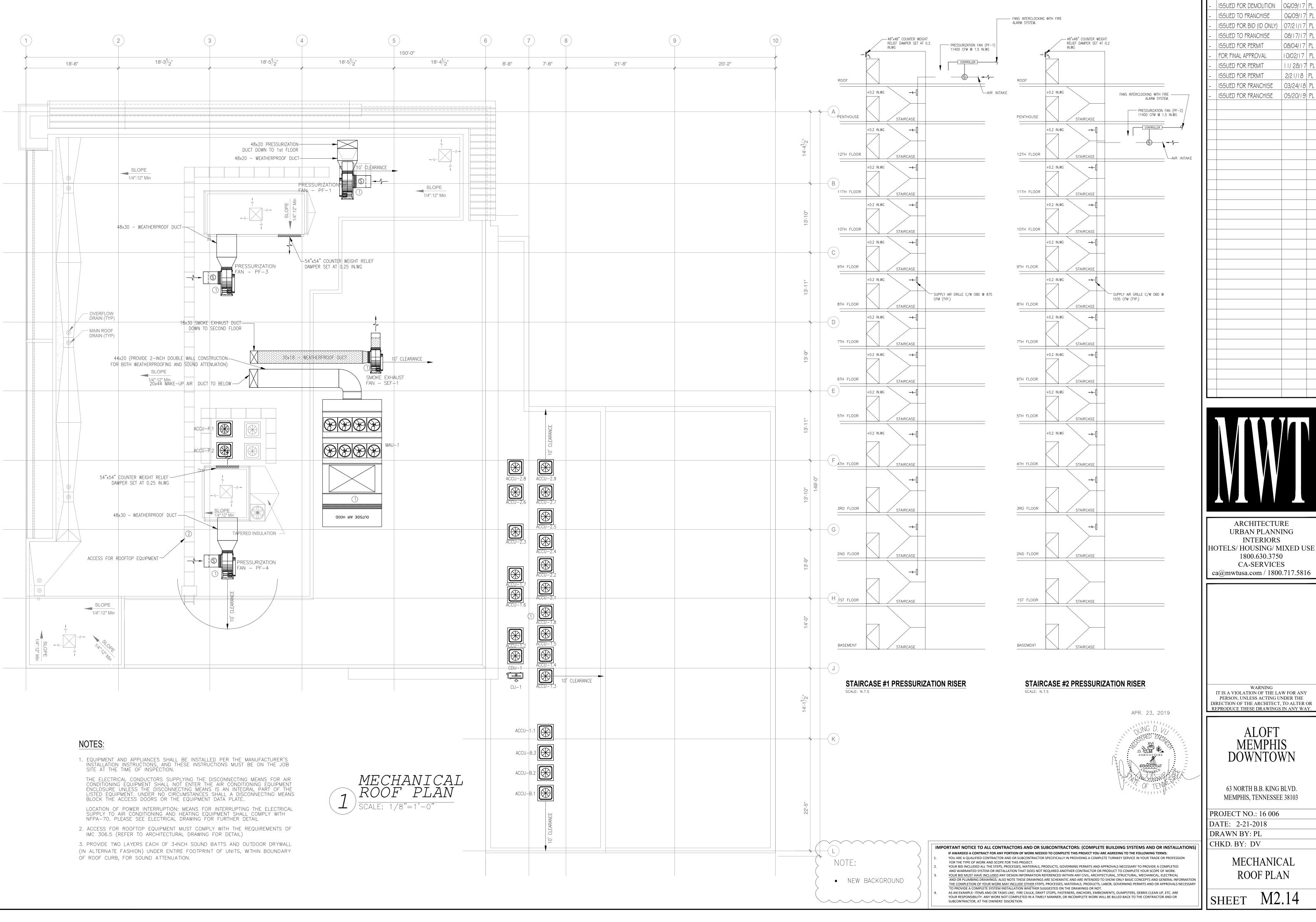


- 1. FOR DETAILS AND EQUIPMENT SCHEDULES SEE MECHANICAL DRAWING 2. ALL HVAC PENETRATIONS THROUGH THE CEILING SHALL BE PROTECTED
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 - OR RUSKIN). 8. PROVIDE ACOUSTICALLY LINED DUCT MAINS FOR EACH AHU: 10 FEET
 - 9. THE CONTRACTOR NEEDS TO COMPLETE THE AIR BALANCING, TESTING 10. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED PER THE MANUFACT
 - 11. LOCATION OF POWER INTERRUPTION: MEANS FOR INTERRUPTING THE E FURTHER DETAIL.
 - 12. PROVIDE 'AIR BALANCE SUMMARY' FOR EACH FLOOR TO CONFIRM POS 13. PROVIDE 10 FEET OF ACOUSTICALLY LINED SUPPLY DUCT MAIN FOR E
 - 14. PROVIDE SOUND LINING FOR RETURN DUCTWORK OF ALL SYSTEMS S
 - 15. PROVIDE BALANCING DAMPER FOR EACH BRANCH DUCT, INCLUDING R
 - 16. MAINTAIN 10 FEET DISTANCE BETWEEN SUPPLY AND RETURN/EXHAUST 17. PROVIDE TRANSFER DUCTWORK (WITH ACOUSTICAL LINING) OR DOOR U

NOTE: • NEW BACKGROUND

	NO.		DATE	BY
	-	ISSUED FOR DEMOLITION	06/09/17	
		ISSUED FOR BID (ID ONLY)	07/21/17	
	-	ISSUED TO FRANCHISE	08/17/17	
	-	ISSUED FOR PERMIT	08/04/17	
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CH FLOOR TO CONFIRM POSITIVE PRESSURE AS REQUIRED. SUPPLY DUCT MAIN FOR EACH AHU/FCU (15 FEET RECOMMENDED FOR MEETING ROOMS AND ALL RTUS).				
WORK OF ALL SYSTEMS SERVING PUBLIC SPACES.				
RANCH DUCT, INCLUDING RUNDUTS TO AIR DEVICES.				
PPLY AND RETURN/EXHAUST AIR DEVICES. STICAL LINING) OR DOOR UNDERCUTS (UNDER 50 CFM) FOR ALL ROOMS REQUIRING MAKEUP FOR EXHAUST, OR RETURN OF AIR.				
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AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT. AS AN EXAMPLE: TERMS AND OR TACKS LIVE: EDE CALLUE, DRAFTSTORS AND CHOSE SANCHORS EMPERAMENTS. DUMPSTEPS, DERDIS CLEAN LID, ETC, APE		PLAN		
THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY			2.13	

NO. DESCRIPTION



DESCRIPTION

DATE

06/09/17

08/17/17

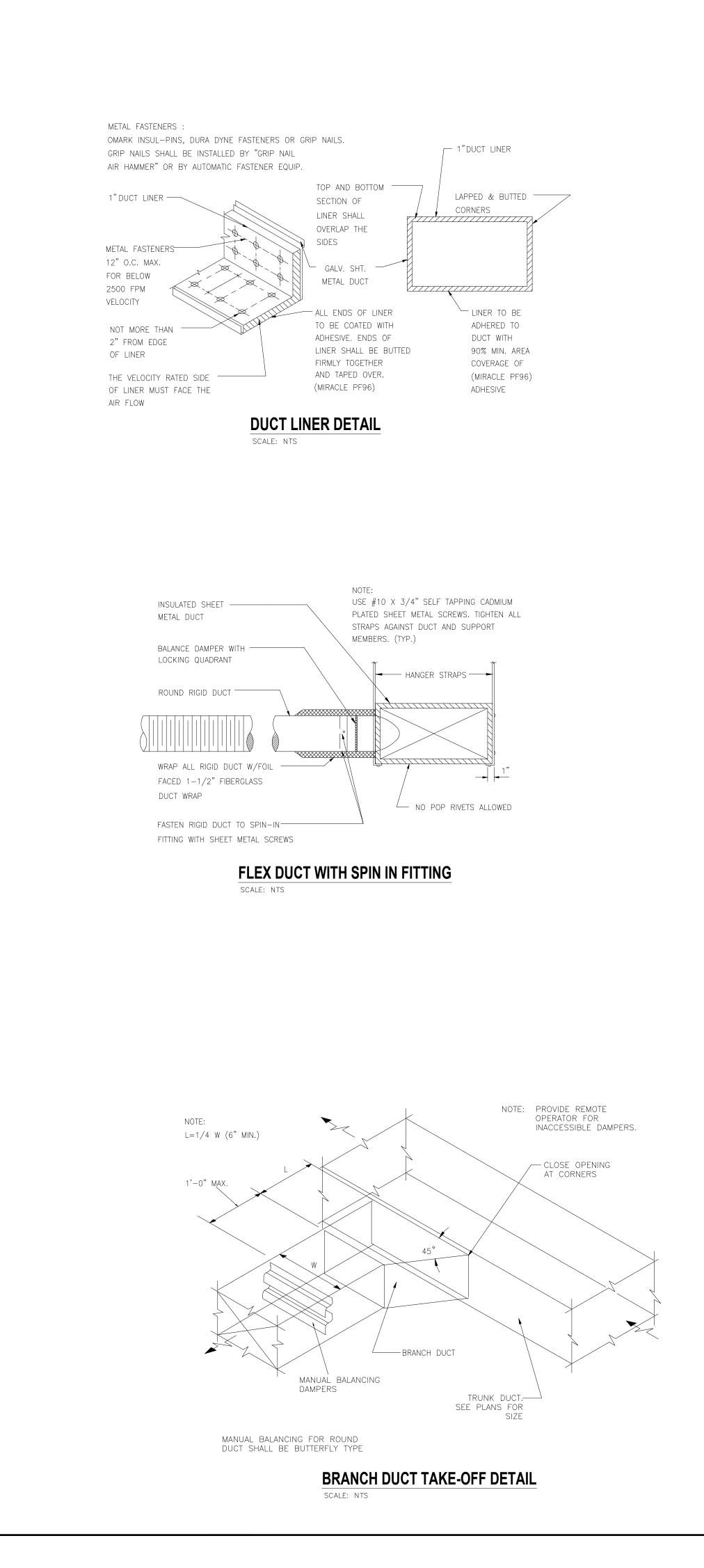
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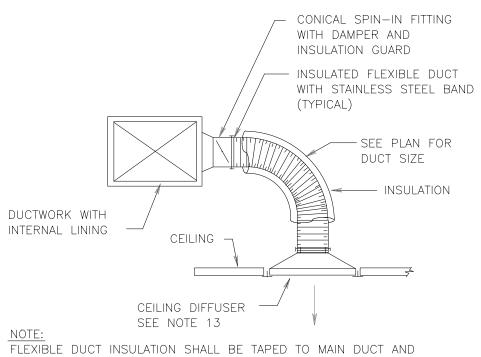
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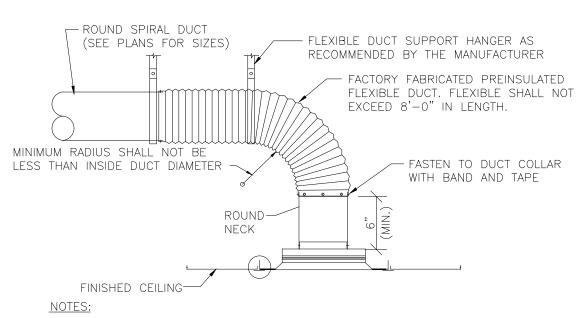
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TO BACK OF CEILING DIFFUSER. INSULATION SHALL COVER SPIN-IN FITTING AND FLUSH WITH THE BACK OF DIFFUSER.

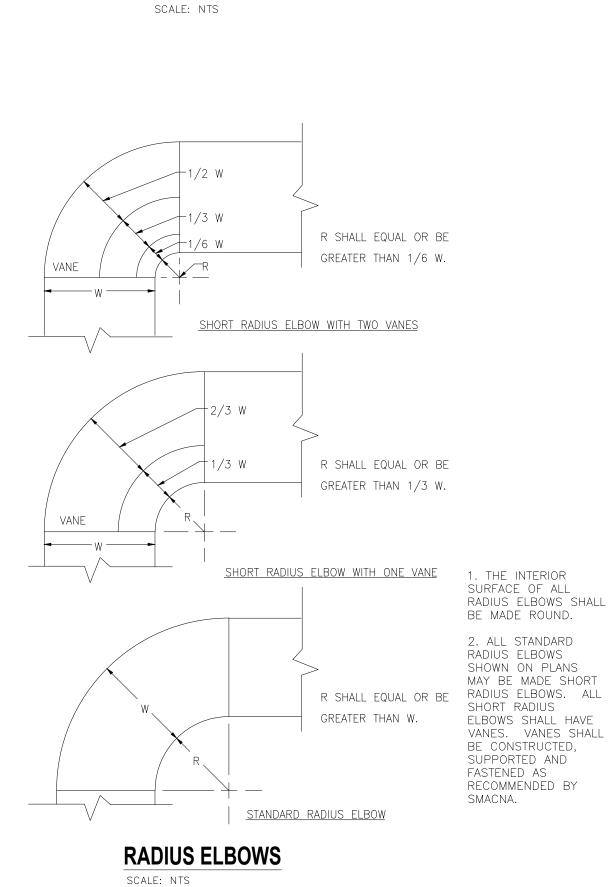


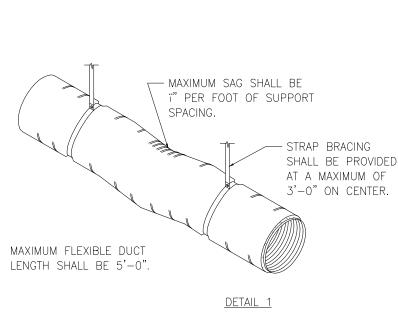


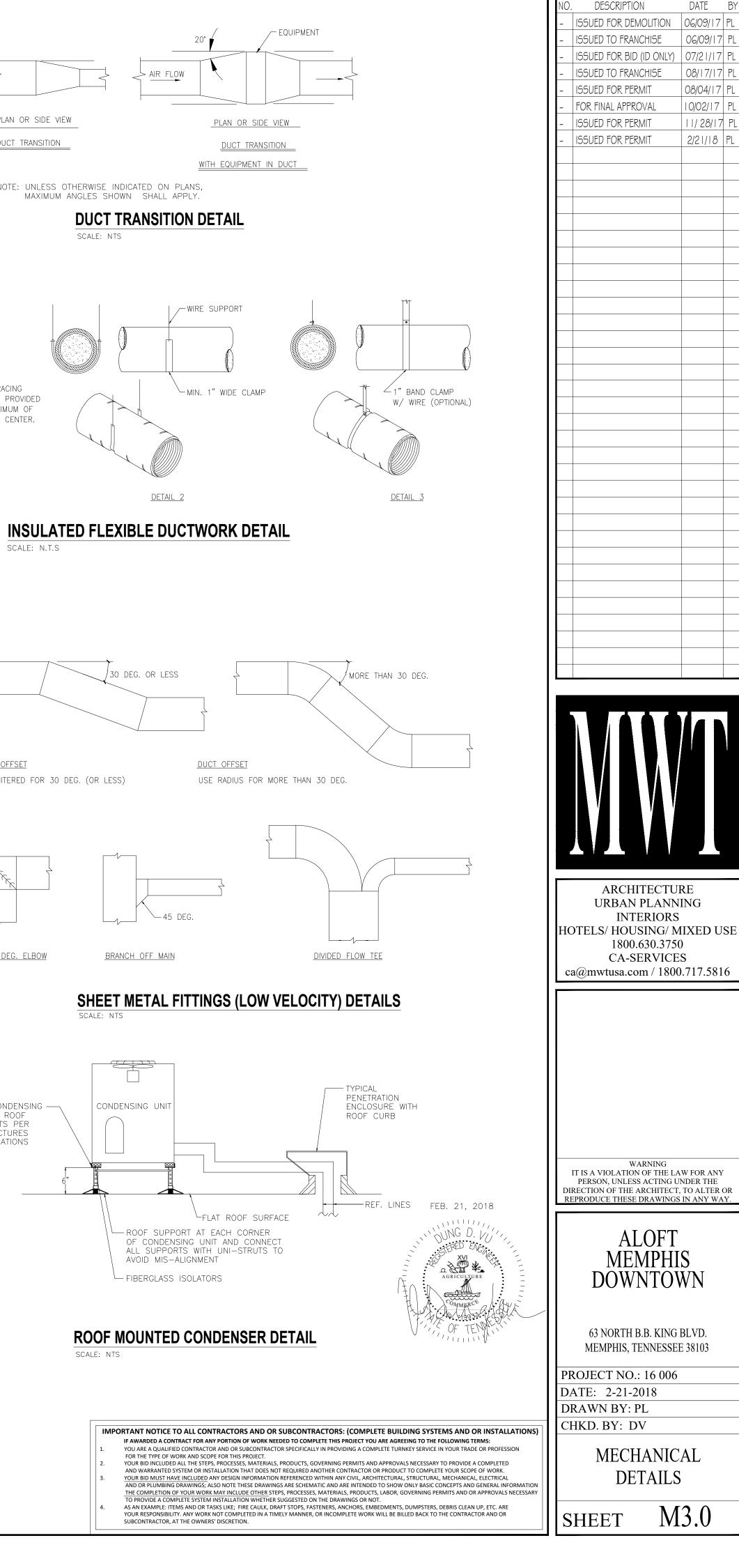
1. CEILING DIFFUSERS SHALL BE SQUARE FACE, ROUND NECK TYPE, PER SCHEDULE. 2. ADJUSTMENT OF DIFFUSER SHALL BE MADE IN BRANCH DUCT TAKE-OFF AT

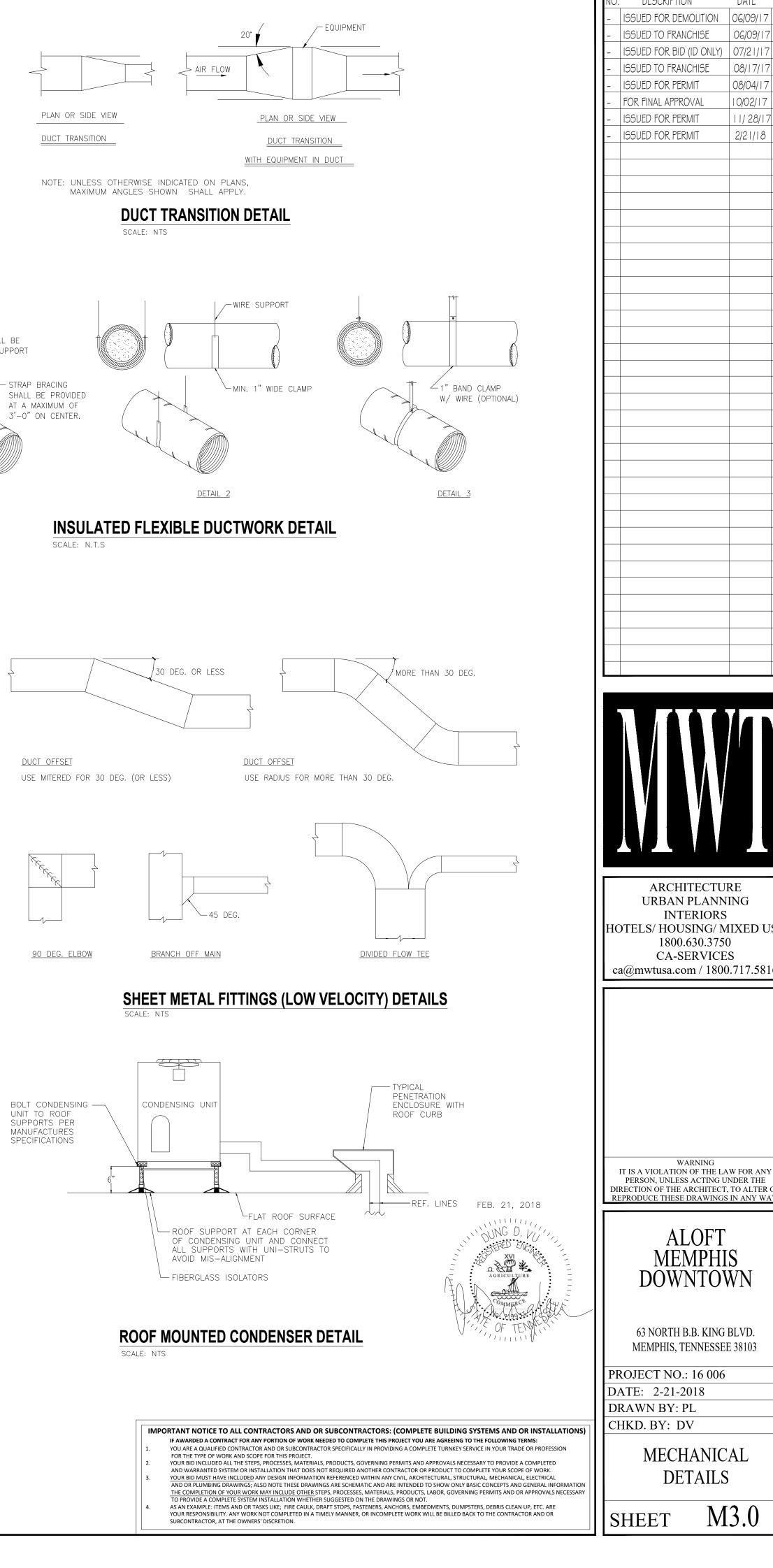
- VOLUME DAMPER. 3. PROVIDE LAY-IN TYPE DIFFUSER FRAME FOR INVERTED T-BAR CEILING SYSTEMS. 4. PRE-INSULATED FLEXIBLE DUCT SHALL BE BANDED AND TAPED TO DUCT COLLAR AND DIFFUSER COLLAR. PROVIDE BEAD ON METAL COLLAR IF DUCT EXCEEDS 12"0.
- 5. FLEXIBLE DUCT (6'-O" MAX. LENGTH) SHALL BE USED FOR ALL CEILING DIFFUSERS

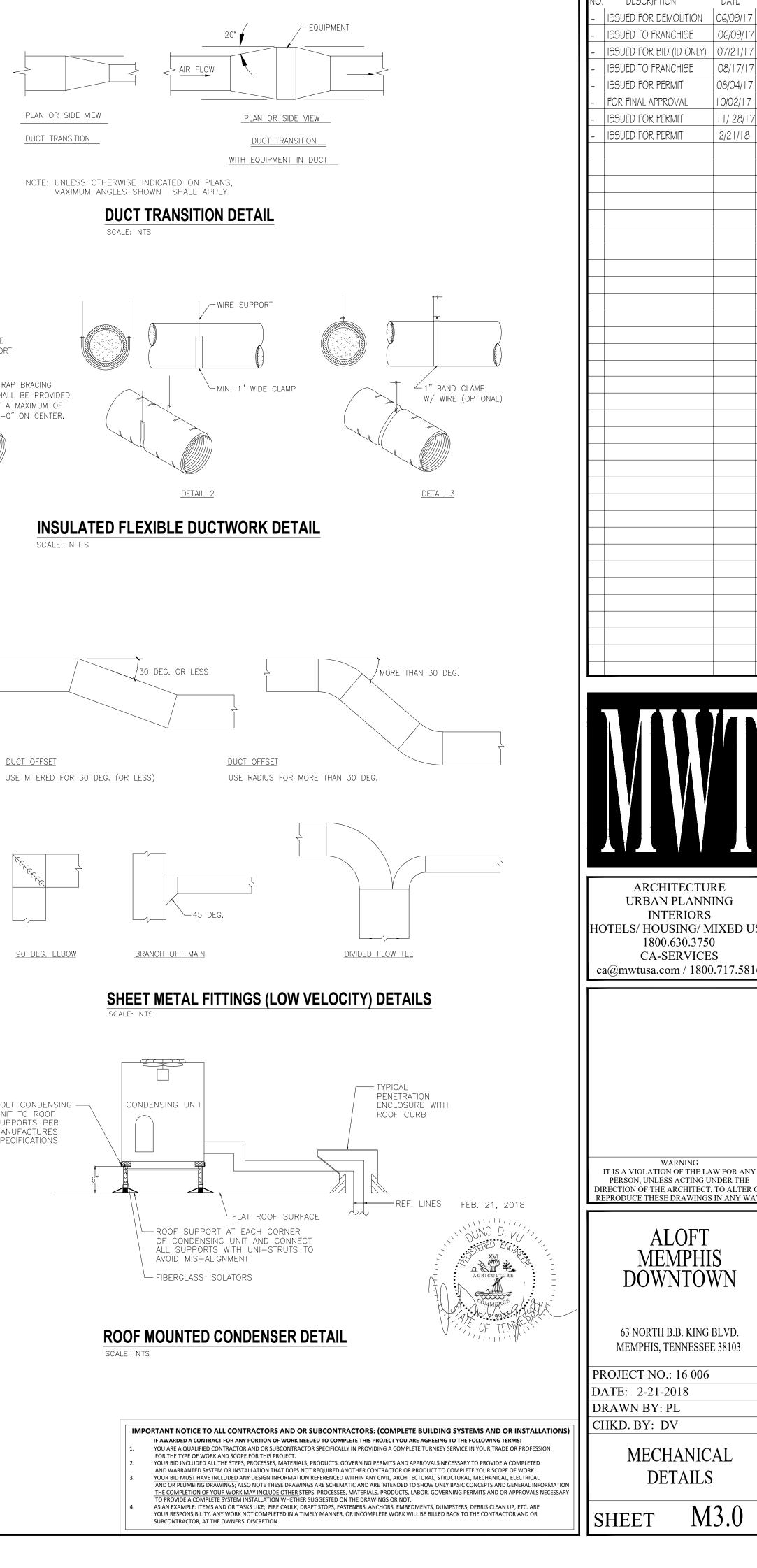
CEILING DIFFUSER

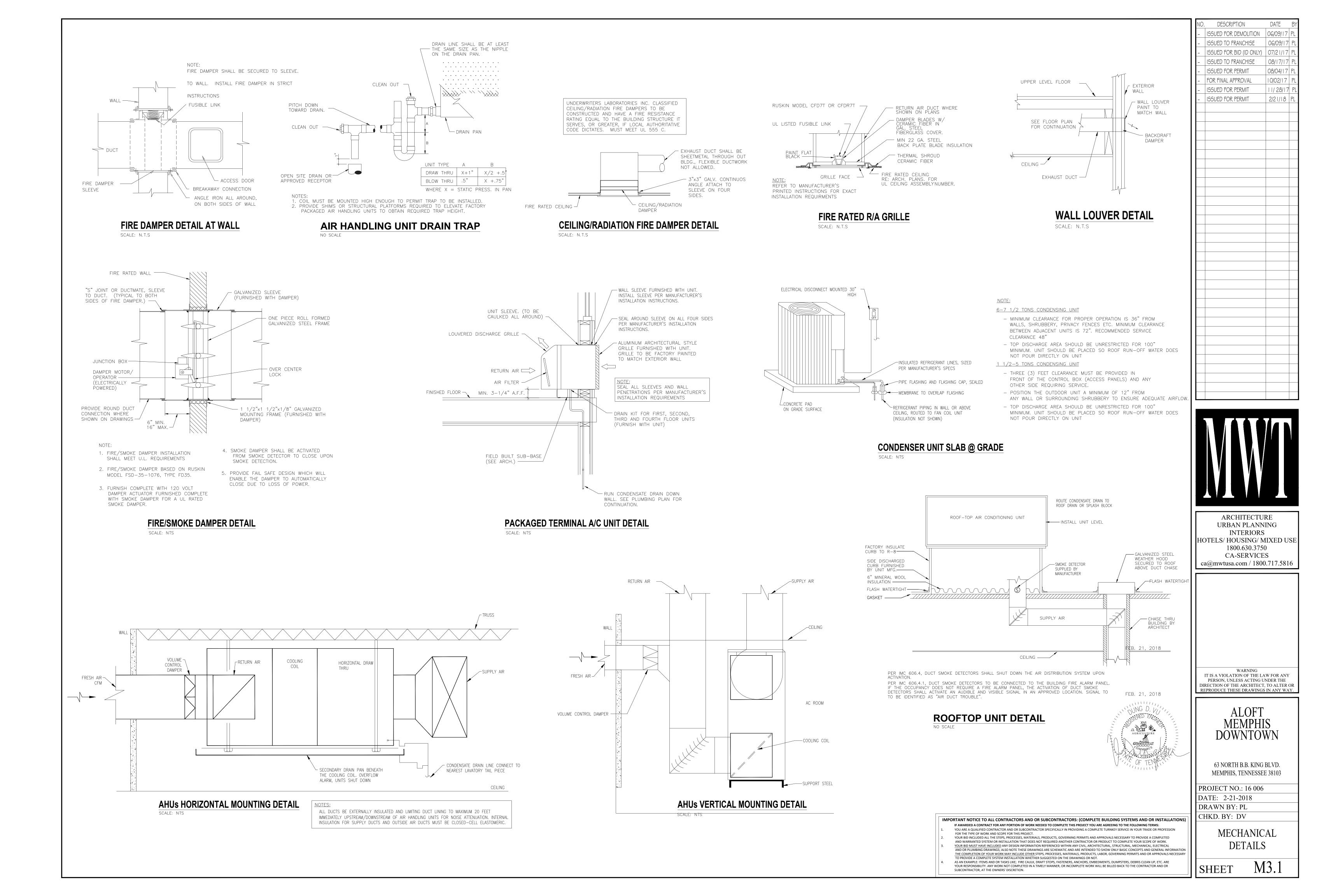


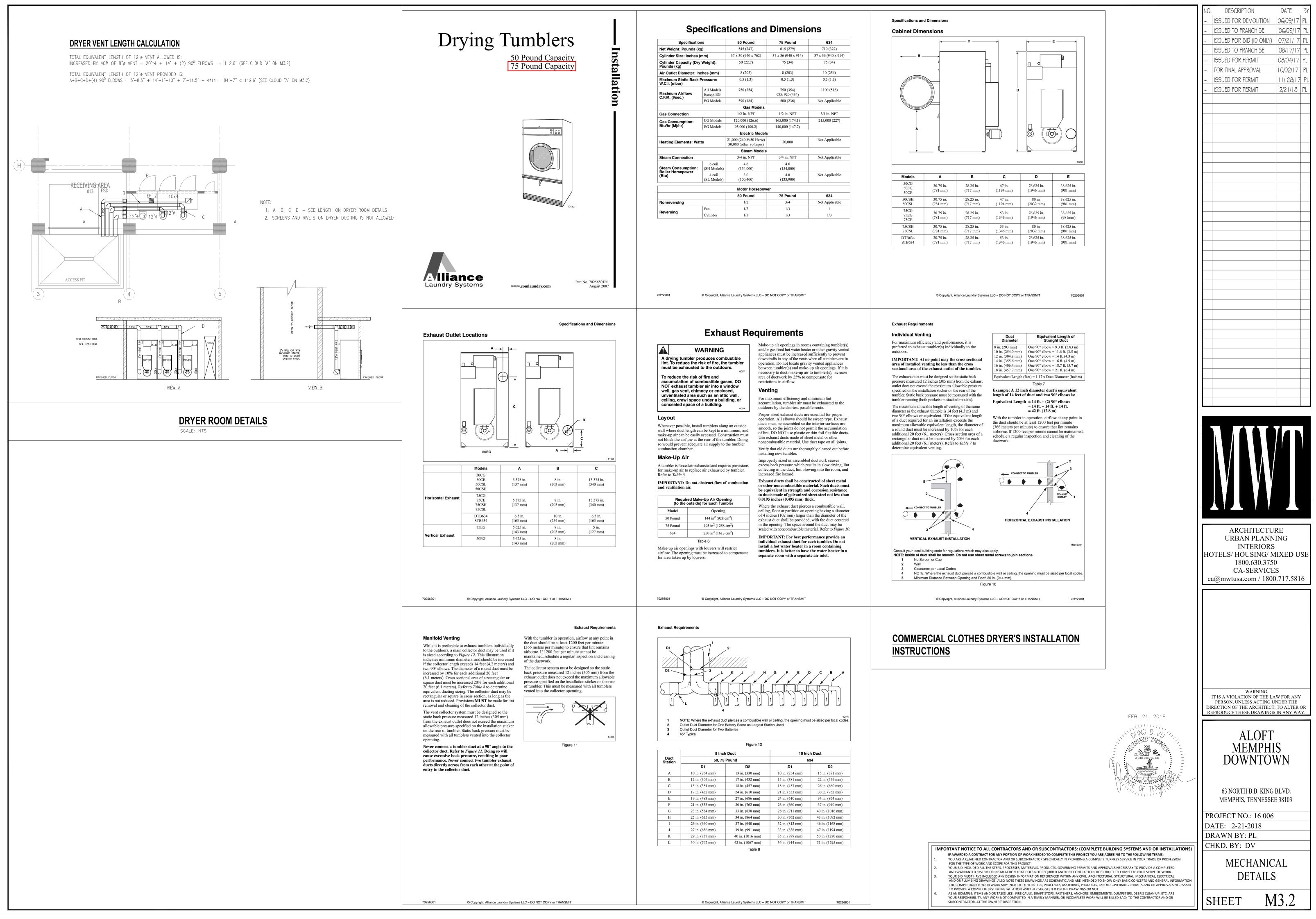


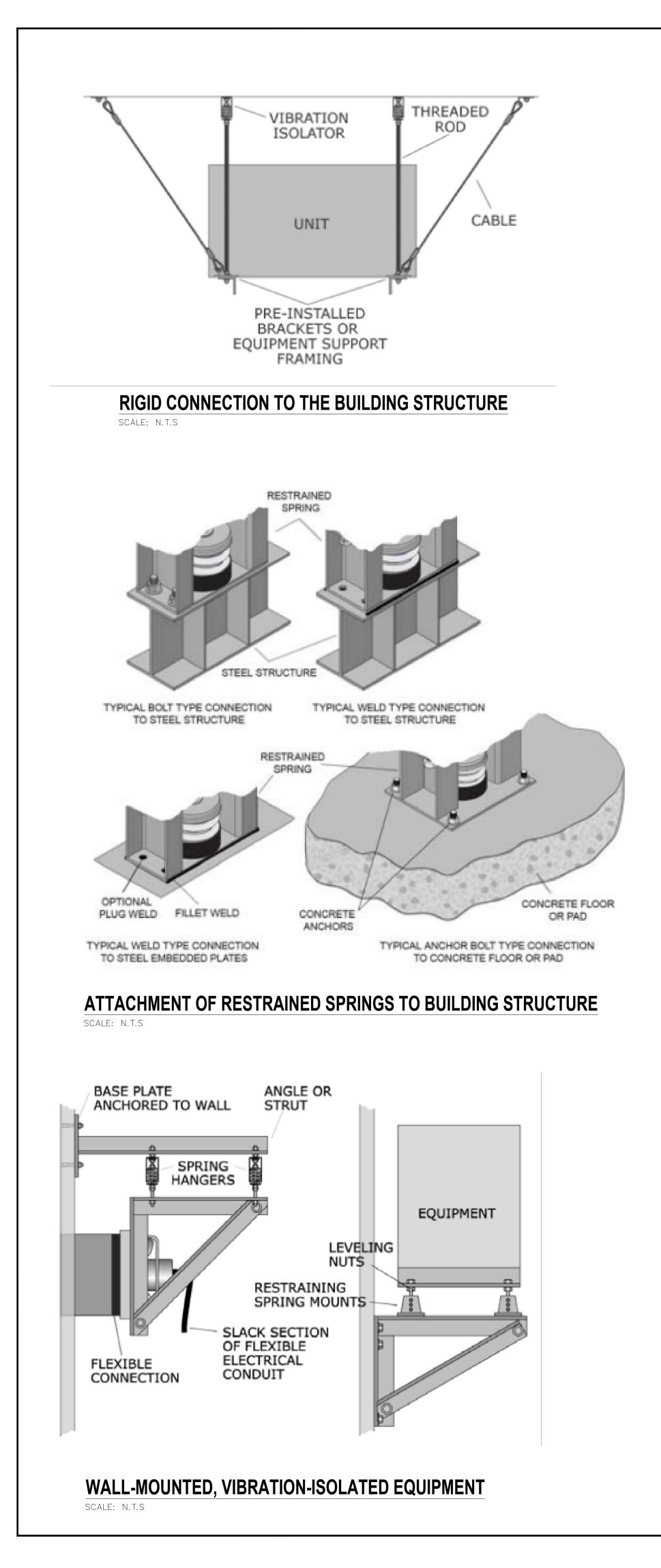


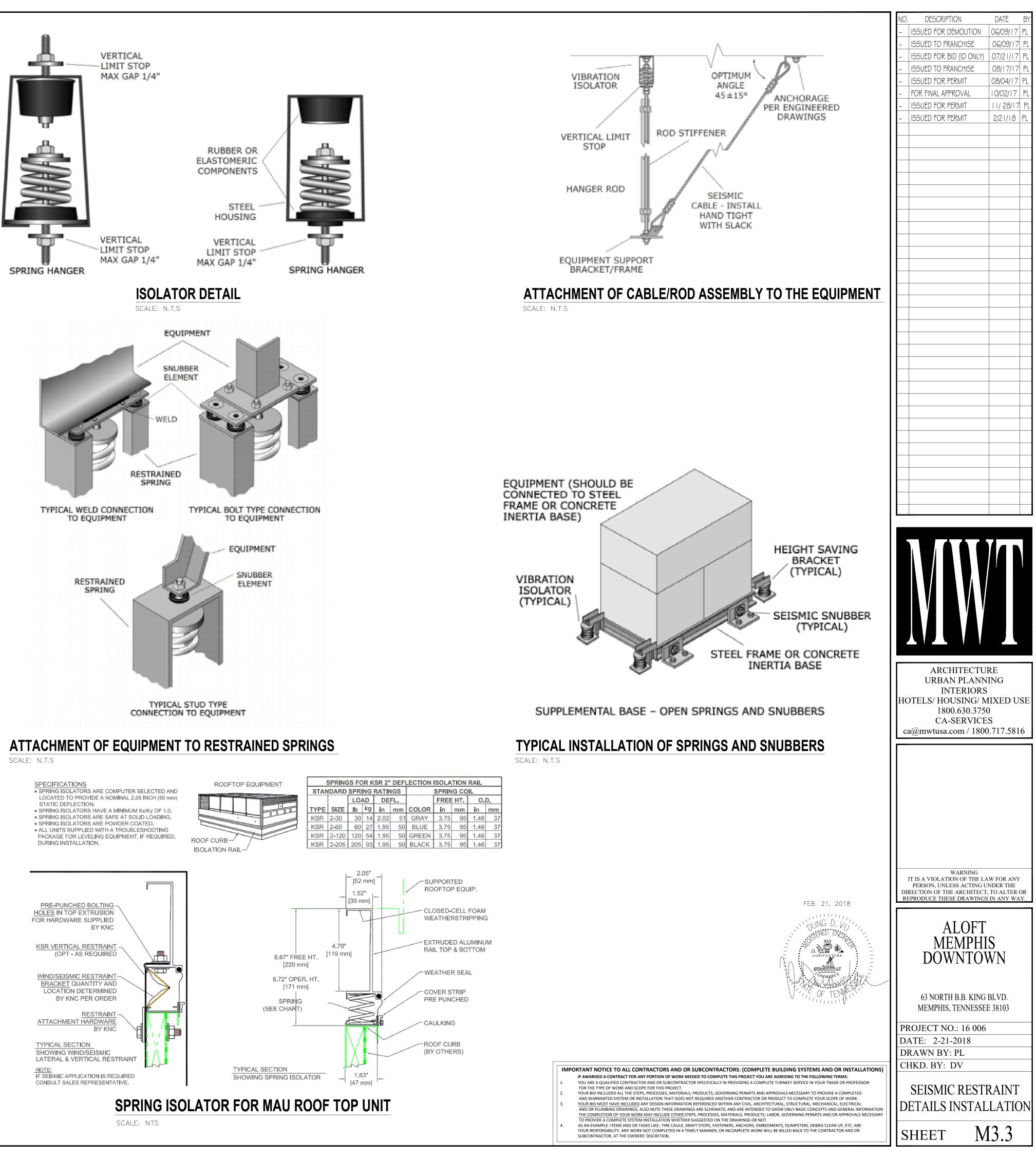


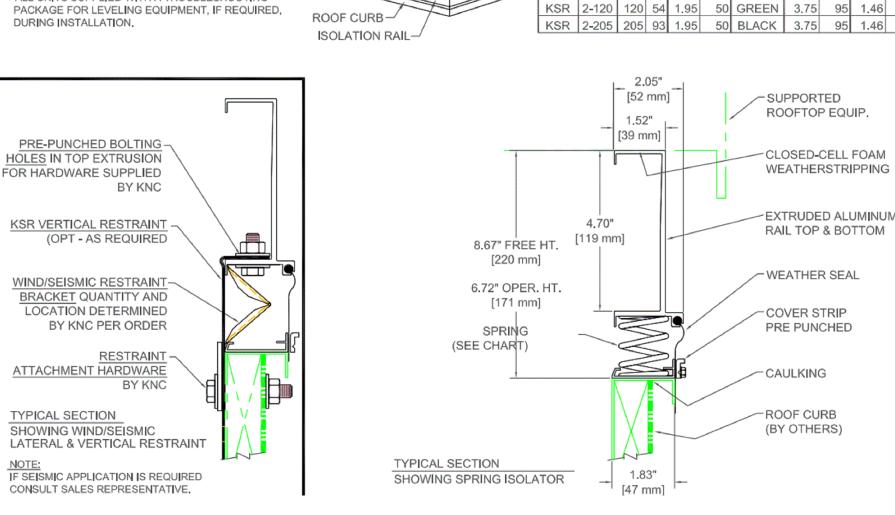


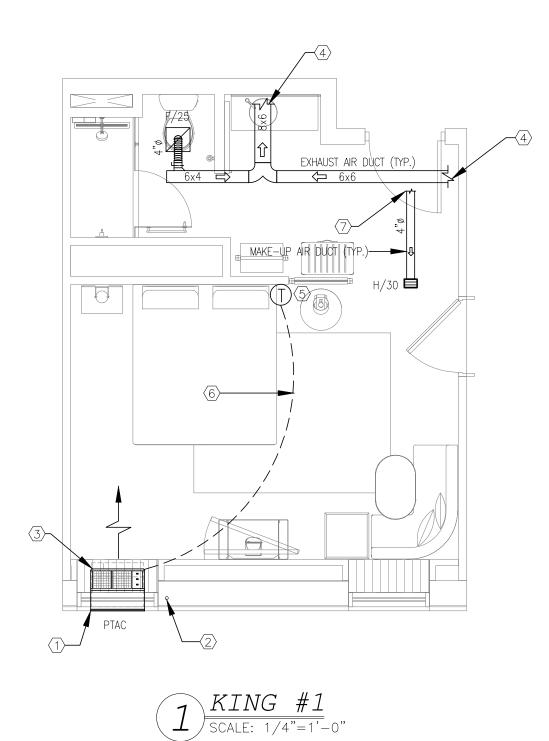


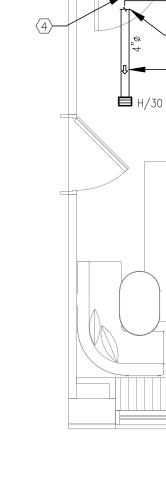


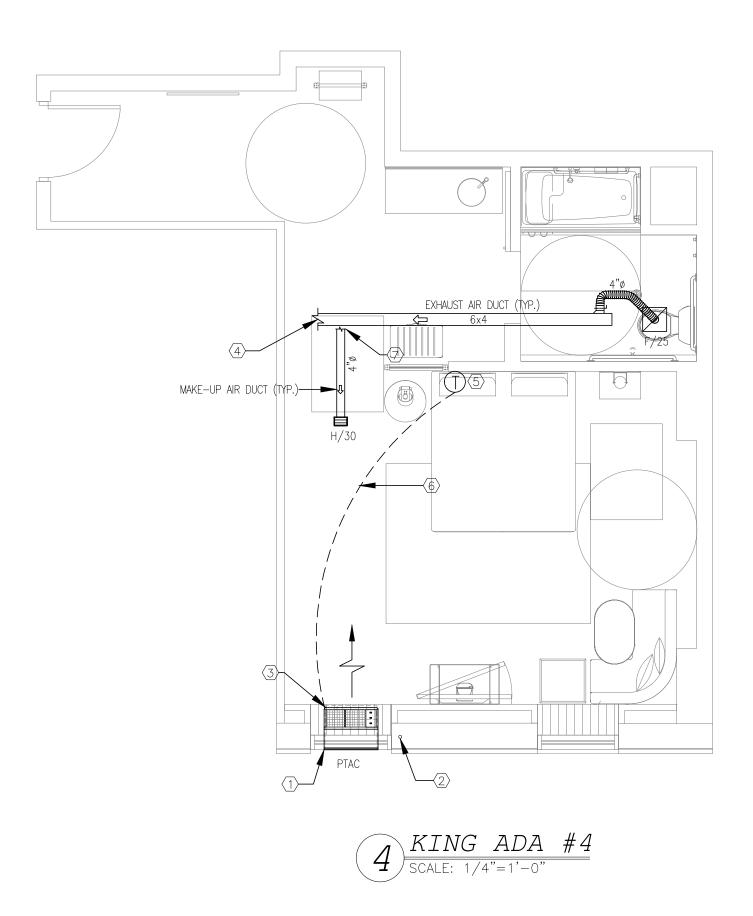


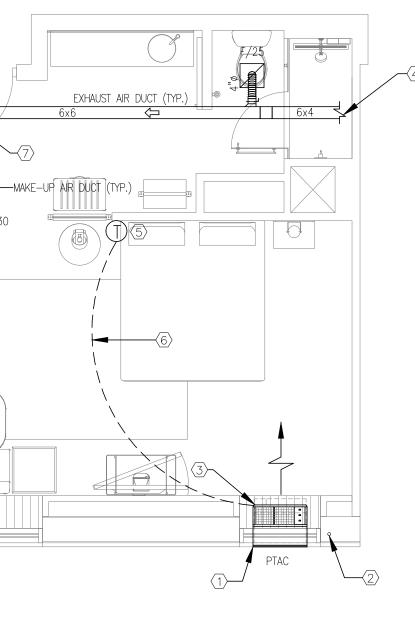


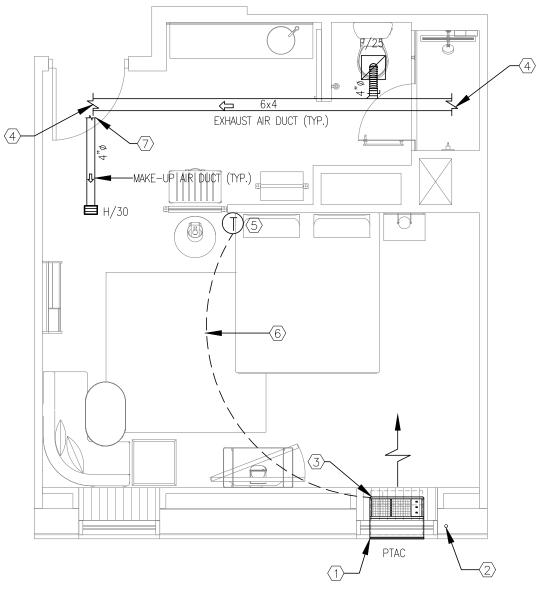






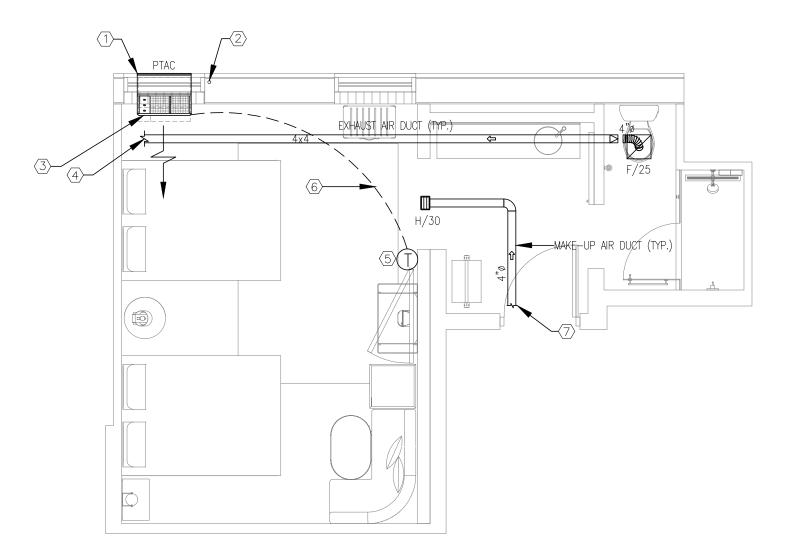


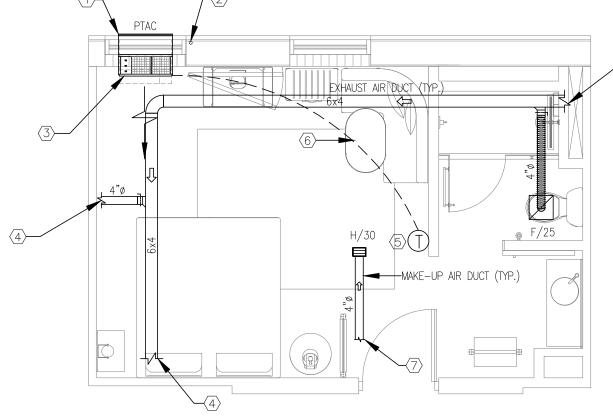




3 KING #3 SCALE: 1/4"=1'-0"







5 D. QUEEN #5 SCALE: 1/4"=1'-0"

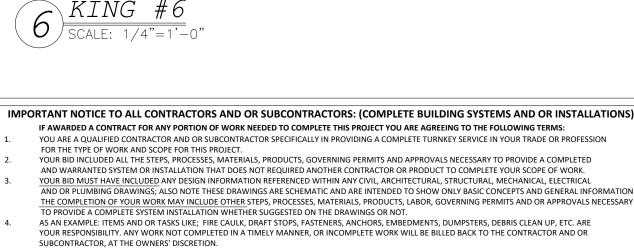
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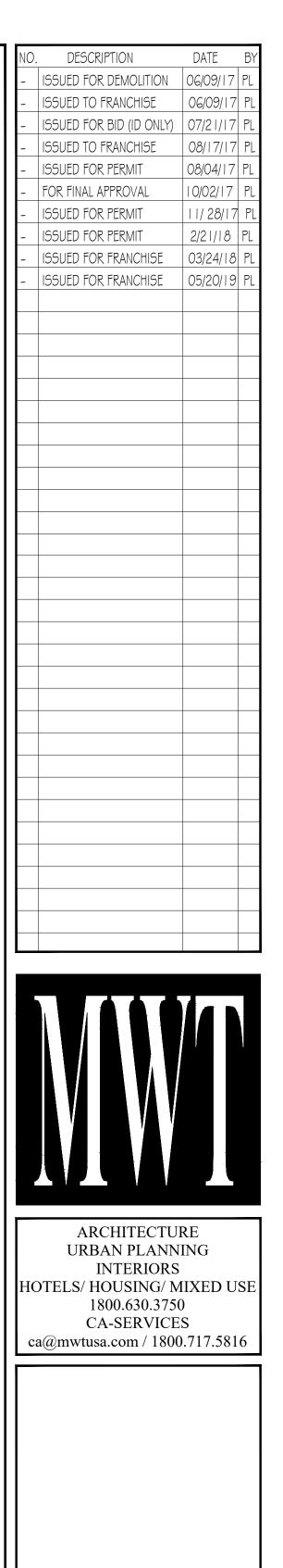
NOTES:

- 1. ARCHITECTURAL WALL GRILLE FURNISHED WITH UNIT. GRILLE PAINTED TO MATCH EXTERIOR WALL (TYPICAL FOR ALL PTAC UNITS).
- 2. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING (TYPICAL FOR ALL PTAC UNITS).
- PACKAGED TERMINAL A/C UNIT (PTAC). SEE DETAIL ON M3.0 FOR INSTALLATION DETAIL.
- 4. METAL EXHAUST DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
- 5. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM AND VERIFY EXACT LOCATION WITH OWNER/ARCH.
- 6. THERMOSTAT CONTROL CONDUIT AND CONTROL WIRING.
- 7. METAL MAKE-UP AIR DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.



APR. 23, 2019





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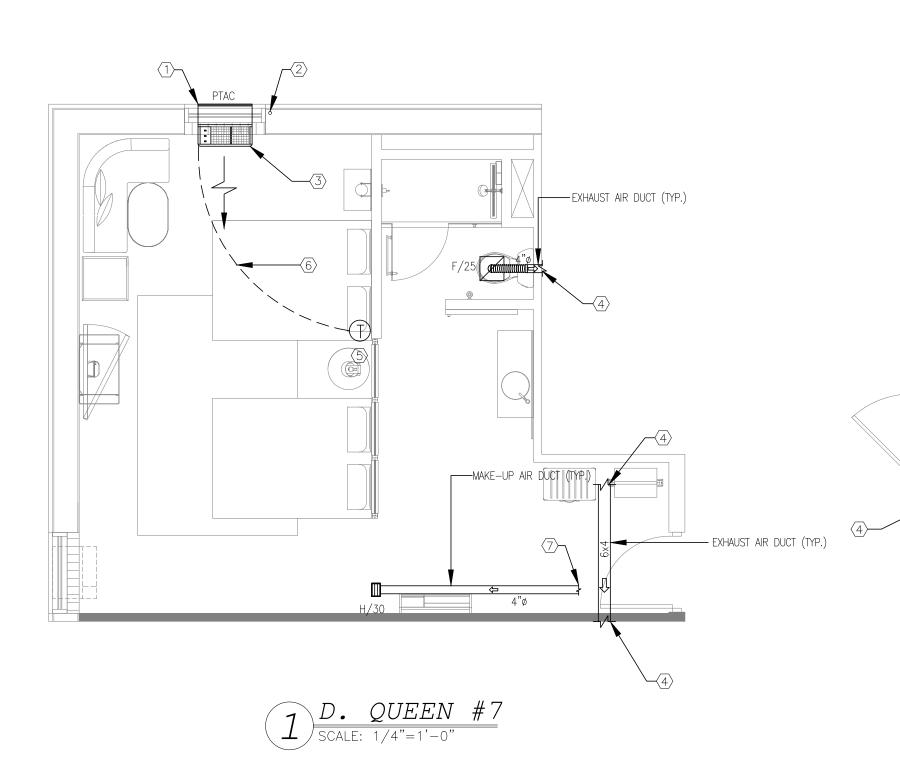
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

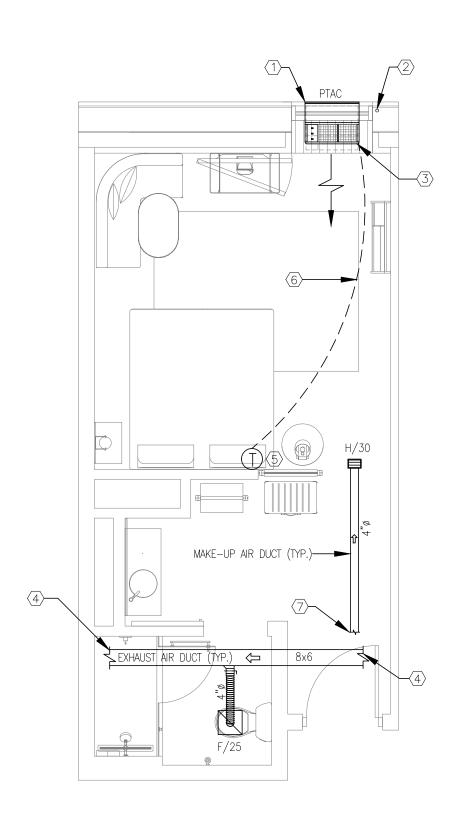
PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV

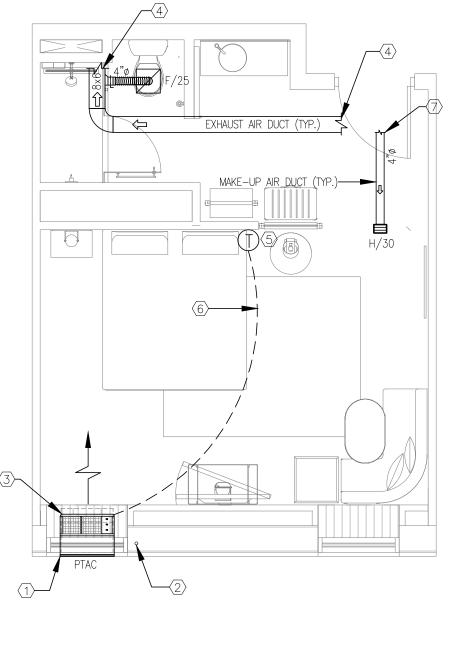
SHEET

TYPICAL GUESTROOM PLAN

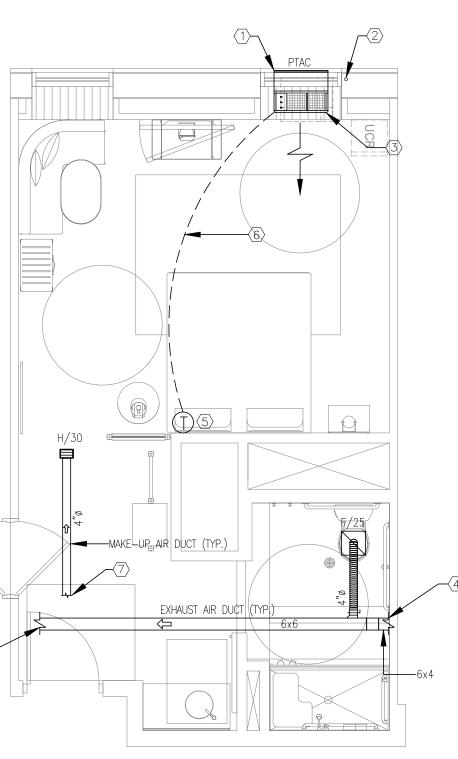
M4.0

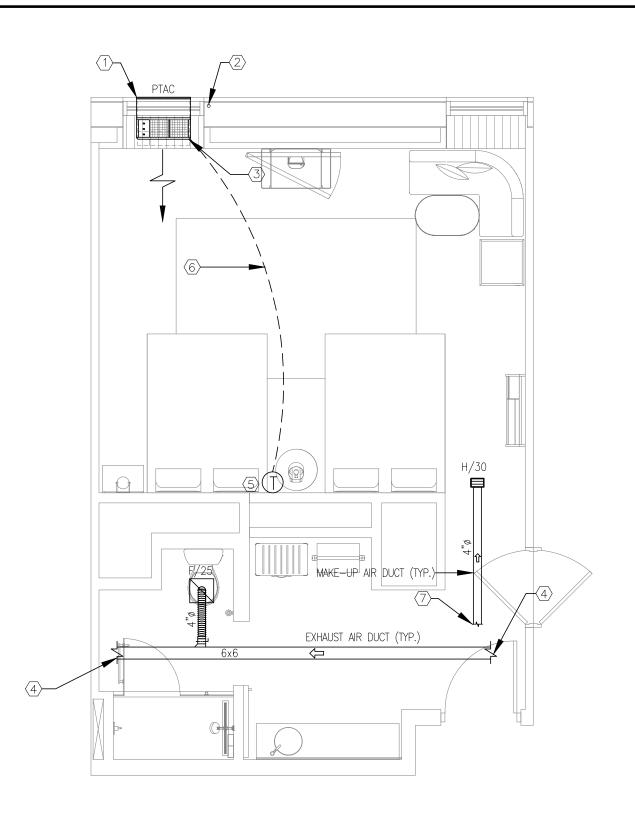




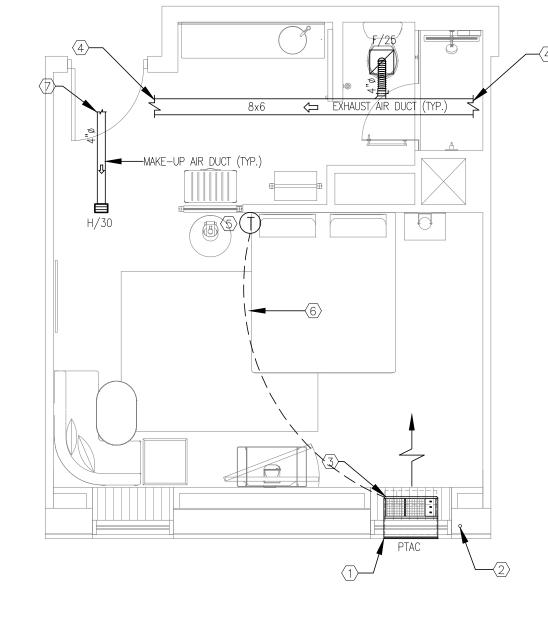








2 KING ADA #8 SCALE: 1/4"=1'-0" 3 D. QUEEN #9 SCALE: 1/4"=1'-0"



7 KING #13 SCALE: 1/4"=1'-0"

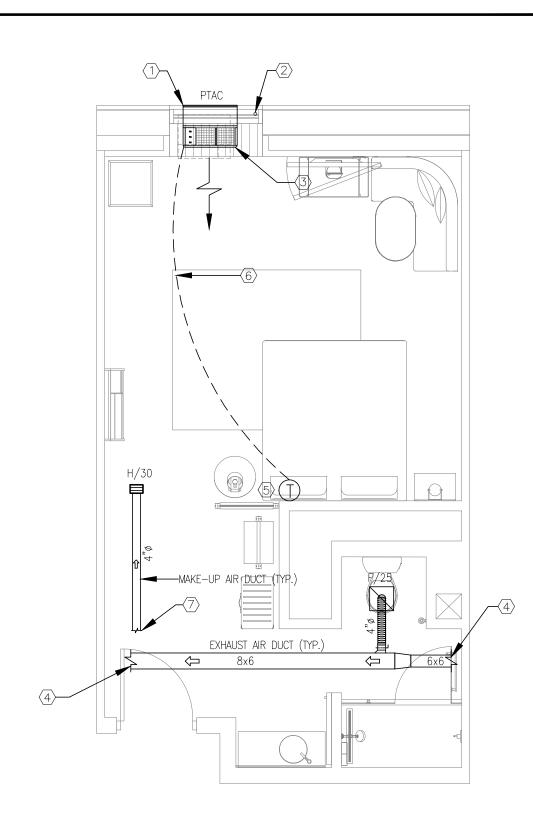
_____ 1. 2. 3. 4.

2. 3. 4. 5. 6. 7.

• NEW BACKGROUND

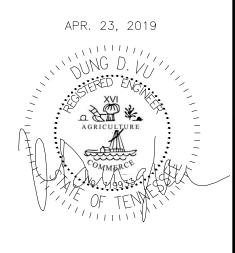
NOTE:

6 KING #12 SCALE: 1/4"=1'-0"



NOTES:

- 1. ARCHITECTURAL WALL GRILLE FURNISHED WITH UNIT. GRILLE PAINTED TO MATCH EXTERIOR WALL (TYPICAL FOR ALL PTAC UNITS).
- 2. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING (TYPICAL FOR ALL PTAC UNITS).
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 4. METAL EXHAUST DUCT ABOVE CELLING. SEE MECHANICAL ELOOP DIAN FOR
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- 7. METAL MAKE-UP AIR DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.



-	ISSUED TO FRANCHISE ISSUED FOR PERMIT	08/17/17 08/04/17	1
-	FOR FINAL APPROVAL	0/02/ 7 / 28/ 7	
-	ISSUED FOR PERMIT	2/21/18	F
-	ISSUED FOR FRANCHISE	03/24/18	
		03/20/13	
			-
			-
			-



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63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV

SHEET

TYPICAL GUESTROOM PLAN

M4.1

THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT. AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETE IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

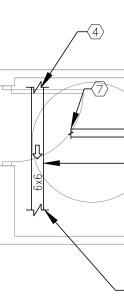
YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATIO

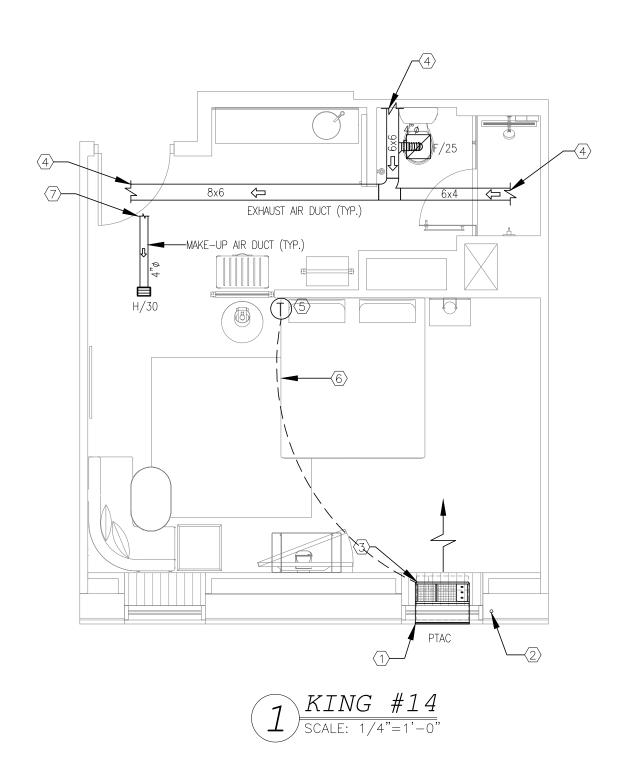
 IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

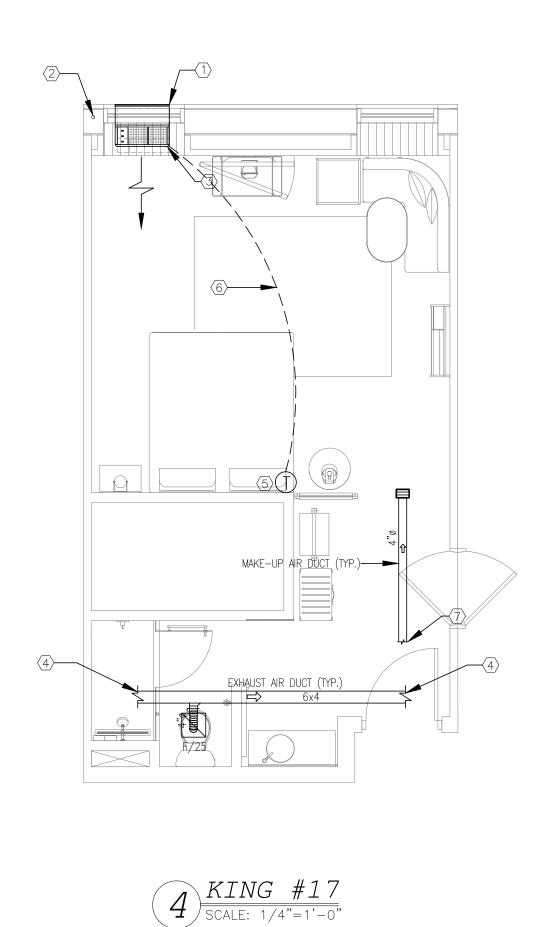
 IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

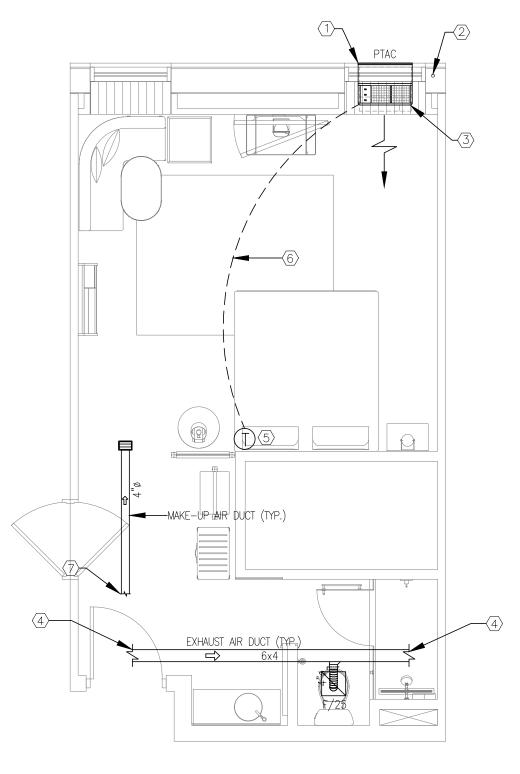
 1.
 YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION

FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

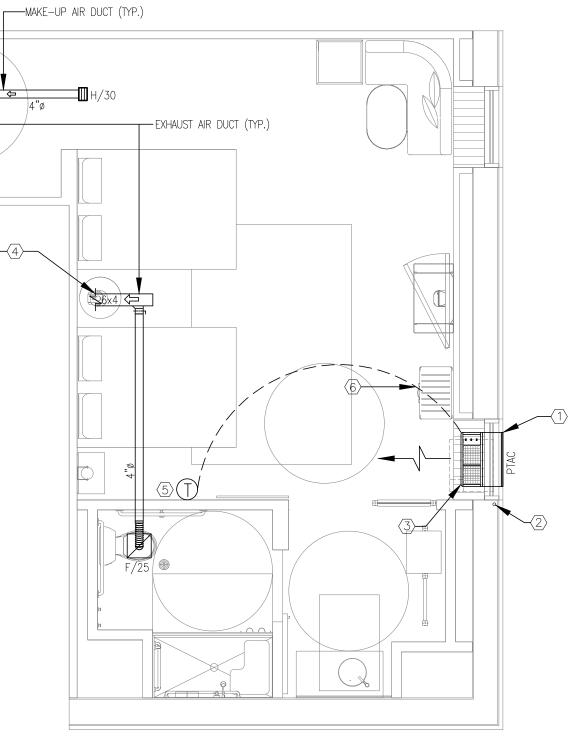




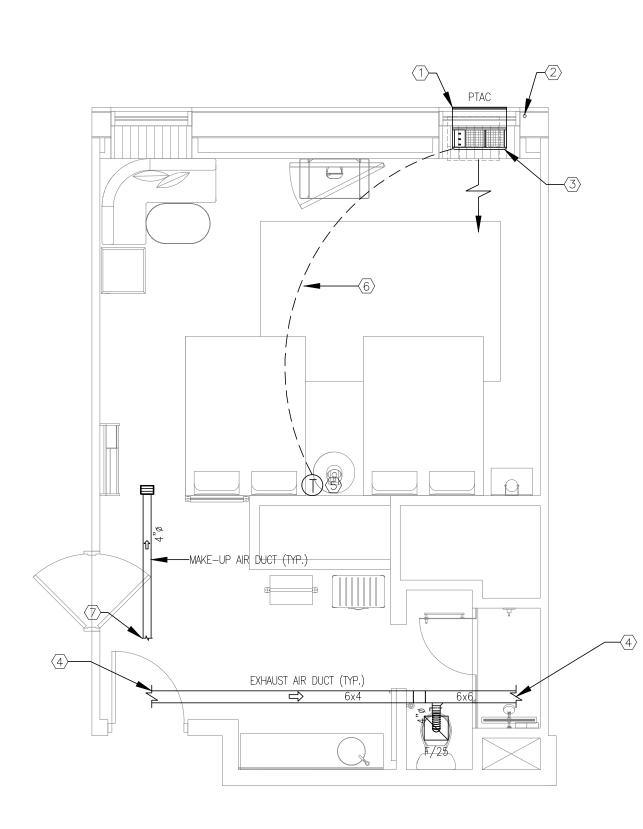




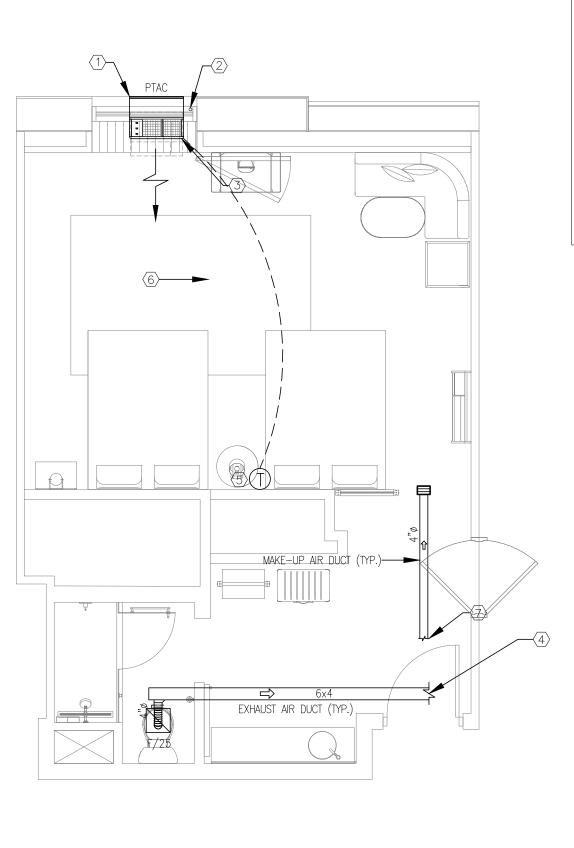


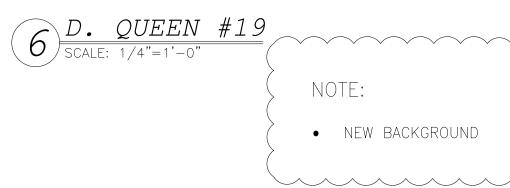






3 D. QUEEN #16 SCALE: 1/4"=1'-0"





NOTES:

- ARCHITECTURAL WALL GRILLE FURNISHED WITH UNIT. GRILLE PAINTED TO MATCH EXTERIOR WALL (TYPICAL FOR ALL PTAC UNITS).
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- 4. METAL EXHAUST DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
- 5. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM AND VERIFY EXACT LOCATION WITH OWNER/ARCH.
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APR. 23, 2019 ING D. K

NO.	DESCRIPTION	DATE	E
_	ISSUED FOR DEMOLITION	06/09/17	Ρ
_	ISSUED TO FRANCHISE	06/09/17	
-	ISSUED FOR BID (ID ONLY)	07/21/17	P
-	ISSUED TO FRANCHISE	08/17/17	F
_	ISSUED FOR PERMIT	08/04/17	P
-	FOR FINAL APPROVAL	10/02/17	F
_	ISSUED FOR PERMIT	/ 28/17	
_	ISSUED FOR PERMIT	2/21/18	P
_	ISSUED FOR FRANCHISE	03/24/18	F
-	ISSUED FOR FRANCHISE	05/20/19	F
	ARCHITECTUI URBAN PLANN		

WARNING IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.



63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV

SHEET

TYPICAL GUESTROOM PLAN

M4.2

THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND GENERAL INFORMATION TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER STUGGESTED ON THE DRAWINGS OR NOT. AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

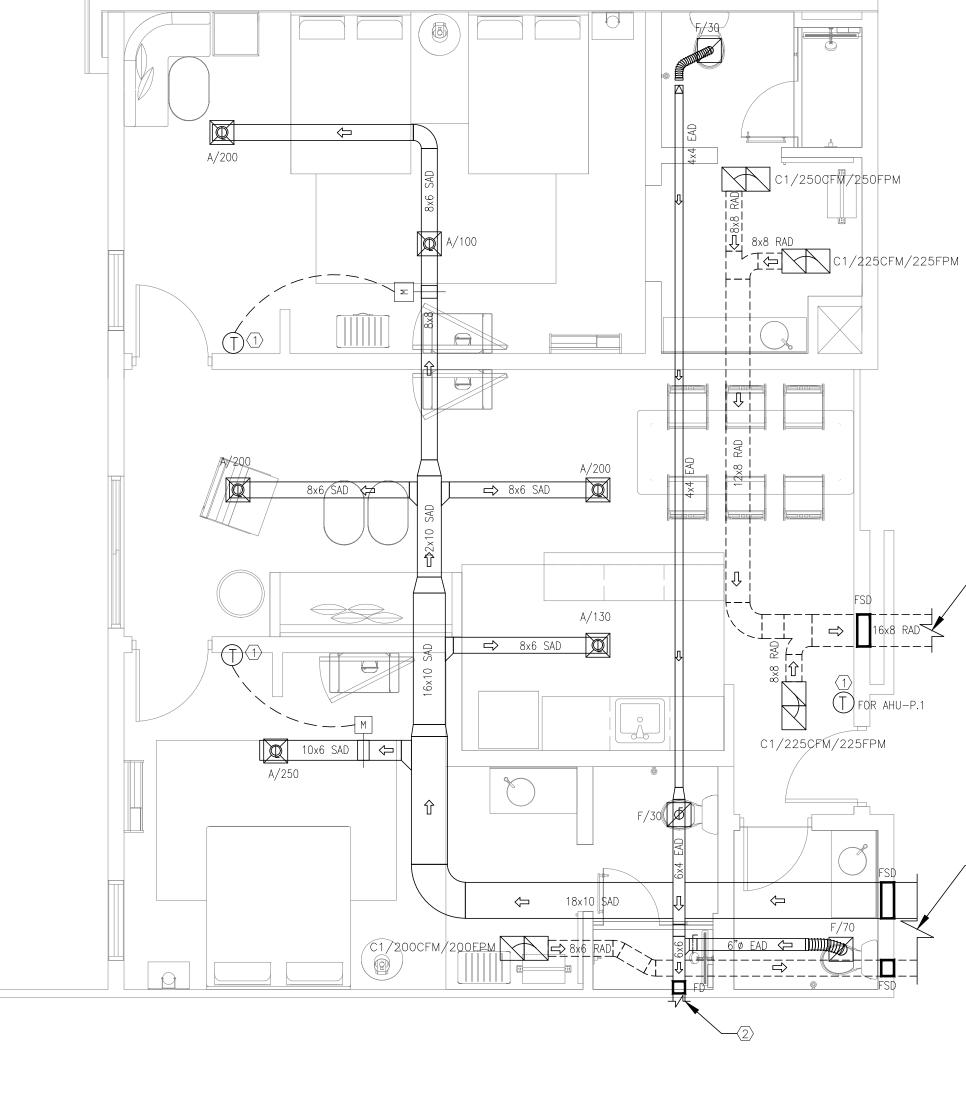
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FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED

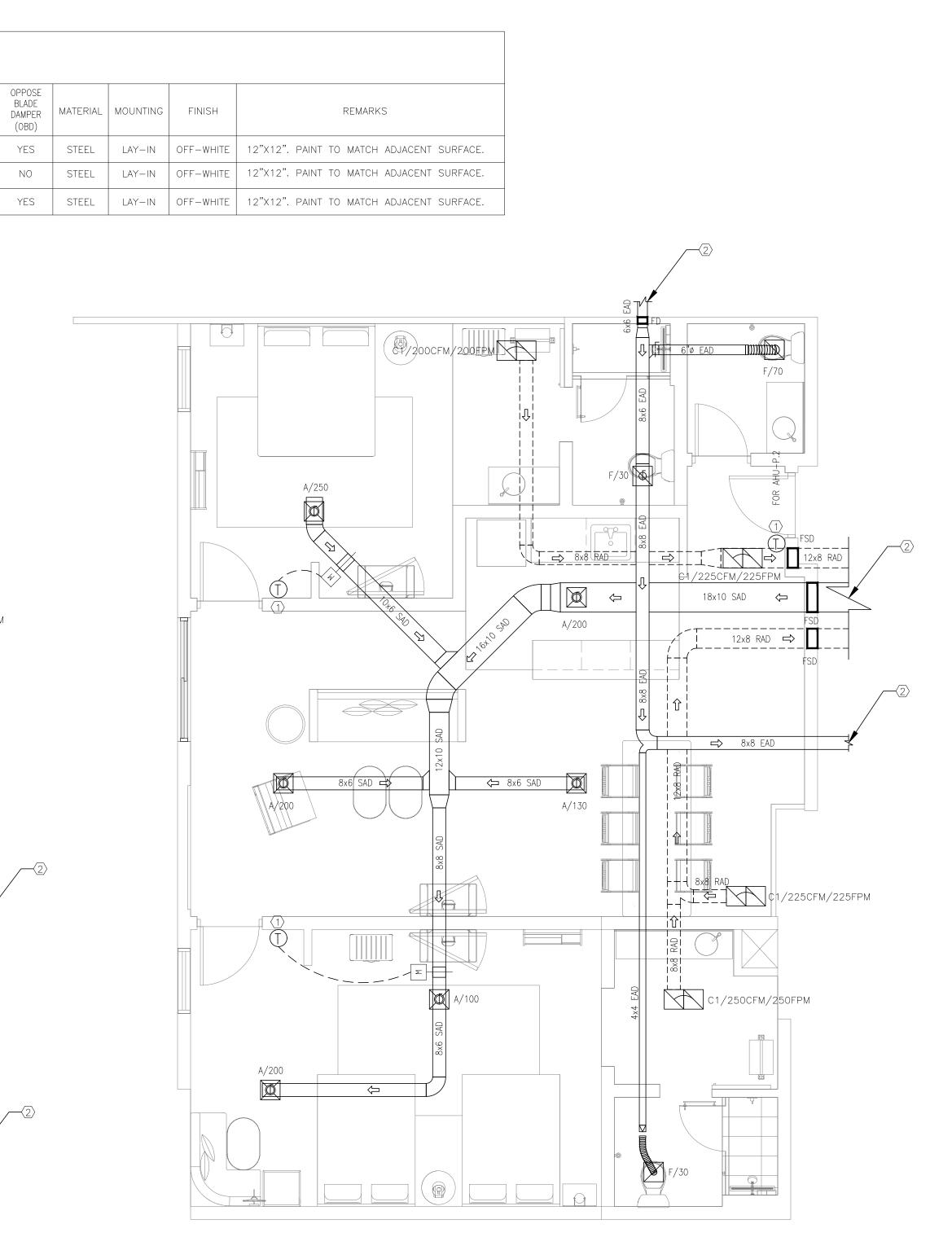
AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION

GRILLE AND REGISTER SCHEDULE

		-		
MARK	TYPE	MANUF.	MODEL	DESCRIPTION
А	2-WAY SUPPLY AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 12"x 12" MODULE
C1	RETURN AIR GRILLE	TITUS	PAR	PERFORATED, 12"x 12" MODULE
F	EXHAUST AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 12"x 12" MODULE



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



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

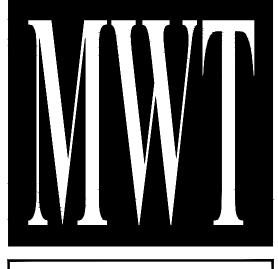
NOTE:

MECHANIC	AL SYMBOL	S
SYMBOL	ABBREVIATION	DESCRIPTION
	FSD	FIRE SMOKE DAMPER
Φ	VCD	VOLUME CONTROL DAMPER
T	T'STAT	WALL MOUNTED THERMOSTAT
	MD	MOTORIZED DAMPER
	SAD	SUPPLY AIR DUCT
	RAD	RETURN AIR DUCT
	EAD	EXHAUST AIR DUCT

NOTES:

- 1. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM AND VERIFY EXACT LOCATION WITH OWNER/ARCH.
- METAL SUPPLY, RETURN & EXHAUST DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
 PROVIDE ACOUSTICAL LINING FOR ALL SUPPLY DUCTWORK, AND A MINIMUM OF 10 FEET OF RETURN DUCT MAIN OF EACH SYSTEM (AHU).

NO.	DESCRIPTION	DATE	BY
-	ISSUED FOR DEMOLITION	06/09/17	PL
-	ISSUED TO FRANCHISE	06/09/17	PL
-	ISSUED FOR BID (ID ONLY)	07/21/17	PL
-	ISSUED TO FRANCHISE	08/17/17	PL
-	ISSUED FOR PERMIT	08/04/17	PL
-	FOR FINAL APPROVAL	10/02/17	PL
-	ISSUED FOR PERMIT	/28/ 7	PL
-	ISSUED FOR PERMIT	2/21/18	PL
-	ISSUED FOR FRANCHISE	03/24/18	PL
-	ISSUED FOR FRANCHISE	05/20/19	PL



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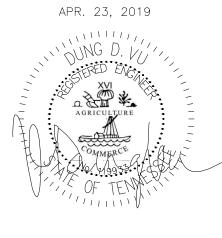
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 2-21-2018 DRAWN BY: PL CHKD. BY: DV

SHEET

TYPICAL GUESTROOM PLAN

M4.3



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