<u>)</u>	ABBREVIA	ATIONS - MECHANICAL	SYMBOLS -	MECHANICAL
	10×6	RECTANGULAR DUCT (WIDTH×DEPTH)		THERMOSTAT
	CU-1	CONDENSING UNIT	- \-	AIRFLOW DIRECTION
	AHU-1	AIR HANDLING UNIT		
	8 <i>¢</i>	ROUND DUCTWORK		RETURN/EXHAUST AIR DEVICE
	TYP	TYPICAL	(A) 500	DIFFUSER CFM AND TYPE
	CFM	CUBIC FEET PER MINUTE		SUPPLY DIFFUSER
	AFF	ABOVE FINISHED FLOOR		
	TAD	TRANSFER AIR DUCT		TURNING VANES
	SAD	SUPPLY AIR DUCT	_ <u> </u>	MOTORIZED DAMI ER
	SA	SUPPLY AIR	— м	MOTORIZED DAMPER
	RAD	RETURN AIR DUCT		VOLUME DAMPER
	RA	RETURN AIR		
	EAD	EXHAUST AIR DUCT	SD	SMOKE DETECTOR
	OSA	OUTSIDE AIR		EXHAUST DUCT IN SECTION
	DN	DOWN		RETURN DUCT IN SECTION
	EF-1	EXHAUST FAN		SUPPLY DUCT IN SECTION
	EAT	ENTERING AIR TEMPERATURE		OUDDLY DUCT THE OFFICE
	LAT	LEAVING AIR TEMPERATURE		
	ESP	EXTERNAL STATIC PRESSURE		
	DX	DIRECT EXPANSION		

NOT TO SCALE

- 2 SYMBOLS MECHANICAL NOT TO SCALE
- 1. REFER TO 2012 INTERNATIONAL BUILDING CODE.
- SEISMIC RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING INSTALLATIONS:
 - A. PIPING IN MECHANICAL ROOMS (EXCEPT GAS PIPING) LESS THAN 1-1/4 INCH INSIDE DIAMETER
 - B. ALL OTHER PIPING (EXCEPT GAS PIPING) LESS THAN 2-1/2 INCH INSIDE DIAMETER.
 - C. ALL RECTANGULAR DUCTS LESS THAN 6 SQ. FT. IN CROSS-SECTIONAL AREA.
 - D. ALL ROUND DUCTS LESS THAN 28 INCHES IN DIAMETER.
 - E. ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
 - F. ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
 - 3 SEISMIC NOTES MECHANICAL
 NOT TO SCALE

- 1. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- 2. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- 3. ATTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT, PIPING, ETC., IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT INTO THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- 5. MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR.
- PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- 7. CONSTRUCT AIR DUCTS IN ACCORDANCE WITH SMACNA DUCT MANUALS
- 8. HVAC WORK INDICATED DIAGRAMATICALLY, EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.
- 9. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
- 10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION. A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE LOCATED ON THE JOB SITE AT ALL TIMES.
- 11. INSTALLATION OF ALL EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT. A PERMANENT MEANS OF ACCESS IS REQUIRED FOR EQUIPMENT INSTALLED ON ROOFS OR ELEVATED STRUCTURES EXCEEDING 16'-0".
- 12. COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- 13. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 3'-0".
- 14. COMPLETION AND TESTS SHALL INCLUDE CLEANING AND LUBRICATION OF ALL EQUIPMENT, AND ADJUSTMENTS FOR PROPER OPERATION. ADJUST DAMPERS, REGISTERS AND DIFFUSERS FOR PROPER AIR DISTRIBUTION. CHECK SYSTEM UNDER ACTUAL OPERATING CONDITIONS AND MAKE ADJUSTMENTS FOR A UNIFORM TEMPERATURE THROUGH THE CONDITIONED SPACE.
- 15. LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS.
 CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE
 EXACT LOCATION AND MODIFY DUCTS/PIPES ACCORDINGLY.

 16. CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE
- 16. CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING, CONTRACTOR SHALL MODIFY DUCTWORK TO FIT AVAILABLE FIELD CONDITIONS.
- 17. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS FOR ACTUAL LINE LENGTHS AND VERTICAL LIFT REQUIRED.
- 18. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
- 19. PROVIDE FIRESTOP WHERE PIPES, CONDUITS, BUS DUCTS, WIRES, DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT PENETRATING RATED FLOORS
- 20. ALL CEILING EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED
- 21. GAS PIPING STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL,

SCHEDULE 40, TYPE E OR S, GRADE B.

- 1. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
- 2. WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING.
- 3. UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS.
 PIPING 3/4" TO 2" FOR SYSTEMS WITH OPERATING PRESSURE OF 2
 PSIG OR LESS SHALL HAVE THREADED JOINTS. PIPING OVER 2" WITH AN OPERATING PRESSURE OF 2 PSIG OR LESS SHALL HAVE WELDED JOINTS. ALL PIPING WITH AN OPERATING PRESSURE OVER 2 PSIG SHALL BE WELDED.

- 22. ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
- 23. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKEOFF AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM.
- 24. PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS WHEREVER VOLUME DAMPERS ARE LOCATED.
- 25. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATIONS SHALL BE PROVIDED BY HVAC CONTRACTOR.
 - . ALL TRANSFER DUCTS SHALL BE INTERNALLY LINED.
 - ALL TRANSPER DUCTS SHALL BE INTERNALLT LINED.
- 27. ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. ALL ROUND ELBOWS SHALL A CENTER TO FACE OF 1.5 X THE DUCT WIDTH.
- 28. CONTRACTOR SHALL FURNISH TESTING & BALANCING REPORT TO ENGINEER & OWNER PRIOR TO FINAL INSPECTION TO VERIFY REQUIRED PERFORMANCE HAS ACHIEVED.
- 29. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS UNLESS OTHERWISE NOTED.
- 30. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, ETC., AND SHALL BE FURNISHED UNDER ARCHITECTURAL SPECIFICATIONS.
- 31. DUCTWORK AND RELATED SHEET METAL WORK:
- A. CLASSIFICATION: LOW PRESSURE DUCTWORK SHALL BE LIMITED TO SYSTEMS OPERATING AT STATIC PRESSURES OF TWO INCHES OF WATER OR LESS AND HIGH PRESSURE DUCTWORK SHALL BE SYSTEMS OPERATING ABOVE TWO INCHES WATER COLUMN.
- B. MATERIALS: MATERIALS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS. THE GALVANIZED SHEET COATING SHALL BE G60 (Z180) CONFORMING TO ASTM A 653/A 653M. HIGH PRESSURE ROUND DUCTS SHALL BE MACHINE LUBRICATED SPIRAL LOCK SEAM TYPE. ROUND FITTINGS AND ROUND SPIRAL DUCT SHALL BE AS MANUFACTURED BY SHEET METAL CONNECTORS, INC; LINDAB, INC.; SPIRAL MANUFACTURING COMPANY, INC; OR EQUAL. GASKETS FOR HIGH PRESSURE DUCTS SHALL BE 3M TYPE 1202 OR EQUAL REINFORCED SYNTHETIC RUBBER SEALANT TYPE NOT LESS THAN 1/4 INCH THICK AND 3/8" WIDE; LIQUID DUCT SEALANT SHALL BE BRUSH OR FLOW GUN GRADE WHICH REMAINS FLEXIBLE AFTER AIR CURING, 3M TYPE 800 OR EQUAL
- C. CONSTRUCTION: CONSTRUCT DUCTWORK (EXCEPT FLEXIBLE DUCTING) WITH CAREFUL, NEAT, AND ACCURATE WORKMANSHIP, AND AIRTIGHT JOINTS AND SEAMS. CONSTRUCT DUCTWORK AND INSTALL IN ACCORDANCE WITH LATEST EDITIONS OF SMACNA'S "LOW VELOCITY DUCT CONSTRUCTION STANDARDS" OR AS APPLICABLE TO CLASSIFICATION OF DUCTWORK INVOLVED, INCLUDING ALL APPLICABLE RECOMMENDATIONS OF THESE STANDARDS.
- 32. ALL DUCTWORK SHALL BE INSULATED EXTERNALLY WITH TWO INCH FLEXIBLE FIBERGLASS DUCT WRAP. INSULATION SHALL COMPLY WITH ANSI/ASTM C612; COMMERCIAL GRADE; 'K' VALUE OF 0.29 AT 75 'F. PROVIDE A 0.002 INCH FOIL SCRIM FACING FOR DUCTWORK INSULATION. SECURE INSULATION WITH VAPOR BARRIER WITH WIRES AND SEAL JACKET JOINTS WITH VAPOR BARRIER ADHESIVE OR TAPE TO MATCH JACKET. SECURE INSULATION WITHOUT VAPOR BARRIER WITH STAPLES, TAPE, OR WIRES. RETURN AIR DUCTS SHALL BE INSULATED W/ 1" ACOUSTICAL DUCT LINER, 1.5 PCF MIN. DENSITY.

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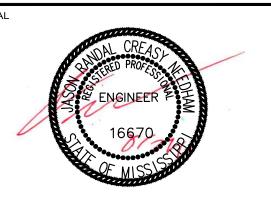
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ABBREVIATIONS, SYMBOLS,
SPECIFICATIONS, NOTES MECHANICAL

SCALE: AS NOTED

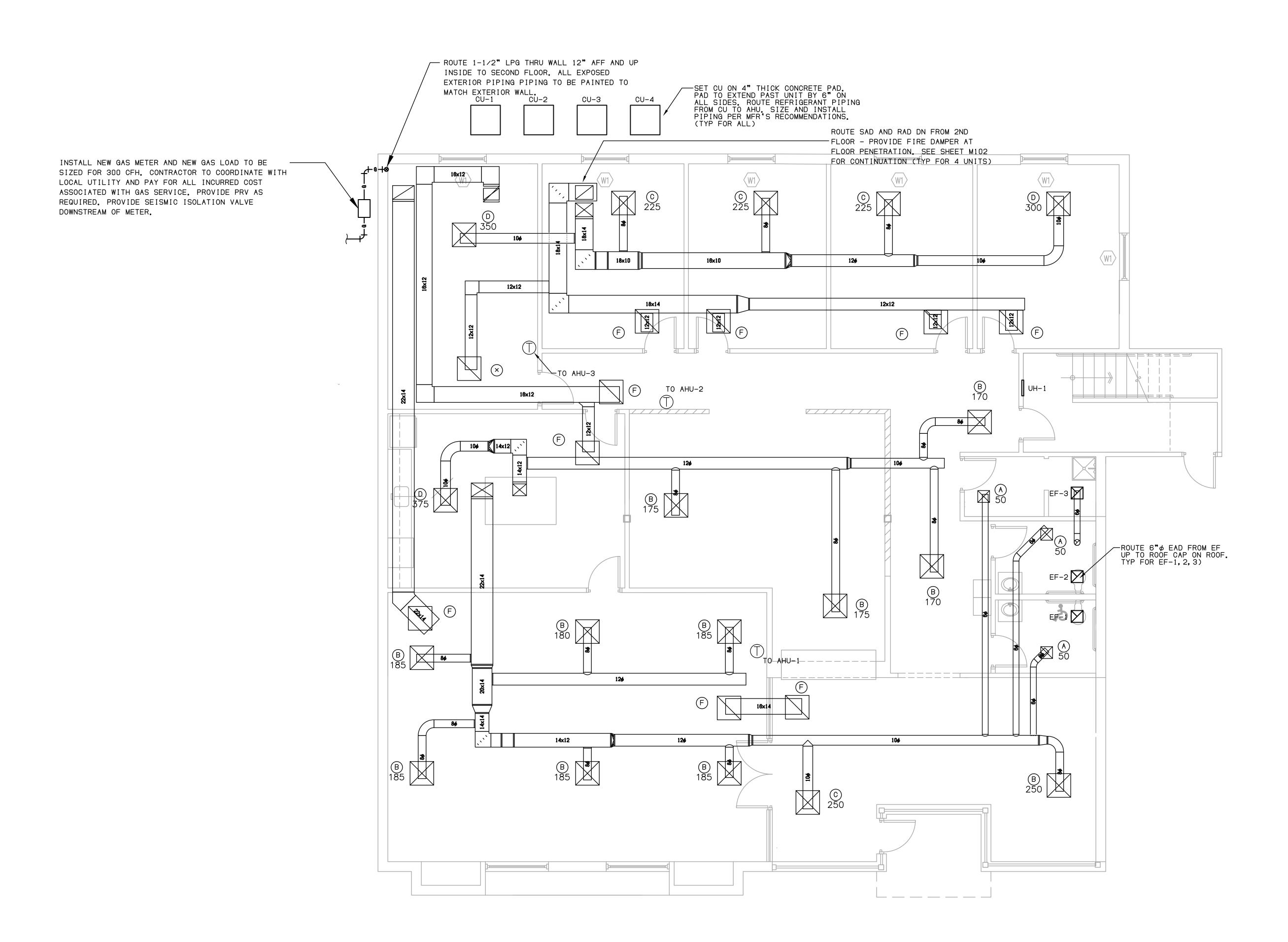
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4 SPECIFICATIONS - MECHANICAL NOT TO SCALE



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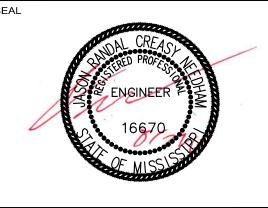
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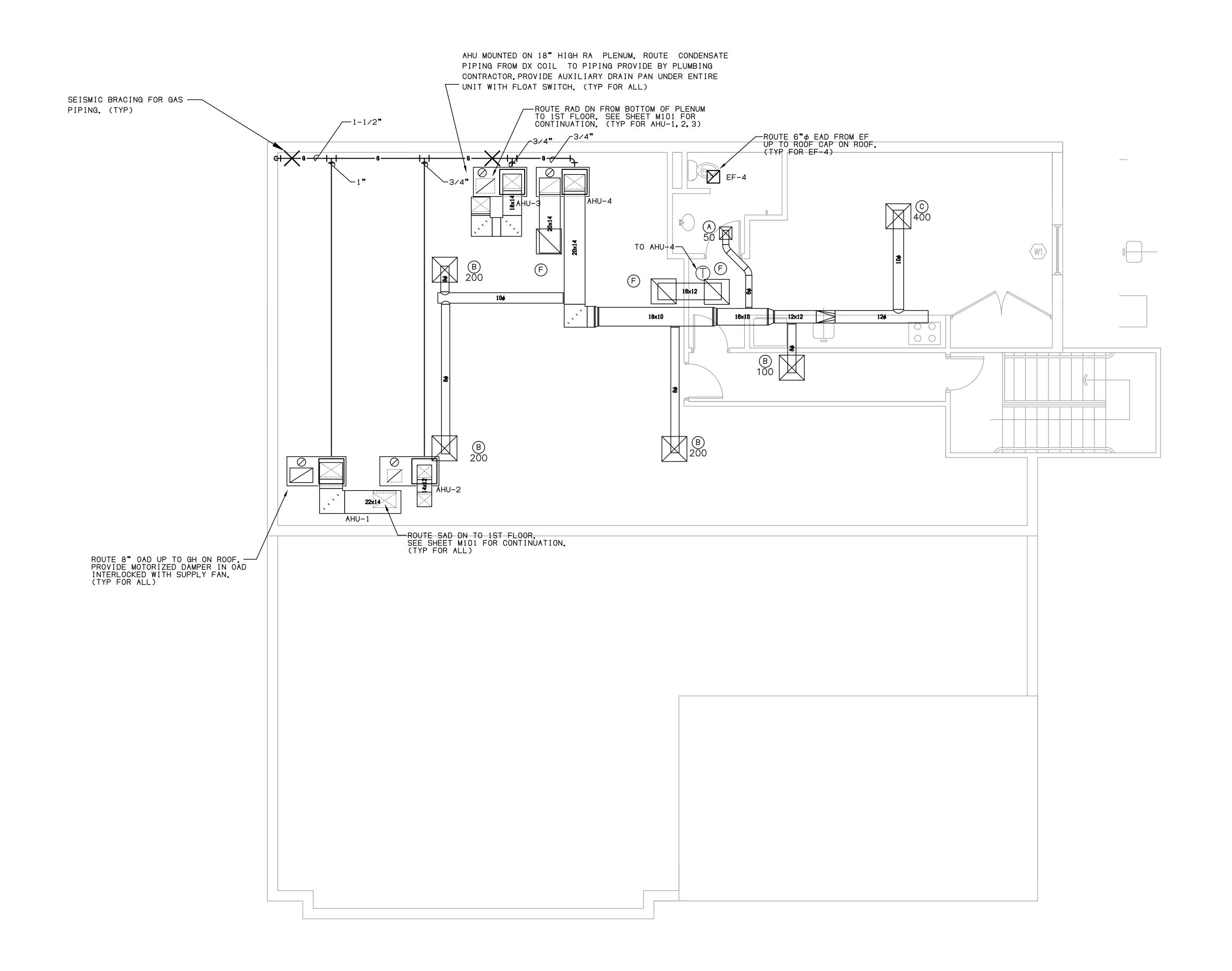
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FIRST FLOOR PLAN -



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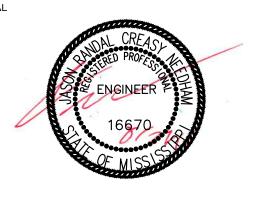
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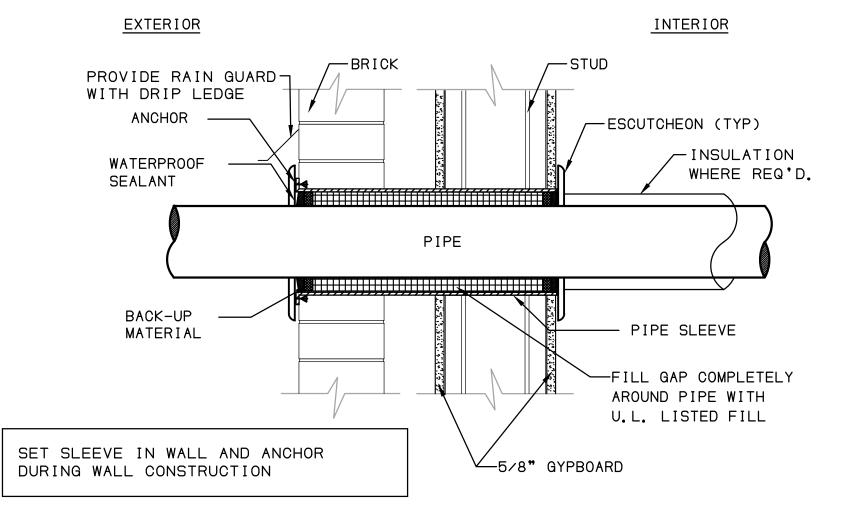
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SECOND FLOOR PLAN MECHANICAL

SEE MECHANICAL DRAWINGS FOR — CONTINUATION OF GAS LINE. SHUT-OFF VALVE -GAS APPLIANCE A.G.A. APPROVED GAS—/VALVE AND FLEX TUBING COUPLER ---

GAS APPLIANCE CONNECTION DETAIL NOT TO SCALE



NOTE: PROVIDE ESCUTCHEON WHEN EXPOSED IN FINISHED AREAS

2 PIPE PENETRATION THRU EXTERIOR WALL DETAIL NOT TO SCALE

- PROVIDE AUXILIARY DRAIN

PAN BELOW CONCEALED UNITS ABOVE CEILINGS

PER CODE

-COIL CONNECTIONS

_ PRIMARY DRAIN PAN

SA DUCT

TOP OF PAD.

SOLDER FLANGE TO INSIDE

OF AUXILIARY DRAIN PAN.

└P-TRAP AS INDICATED ON

PLUMBING DRAWINGS

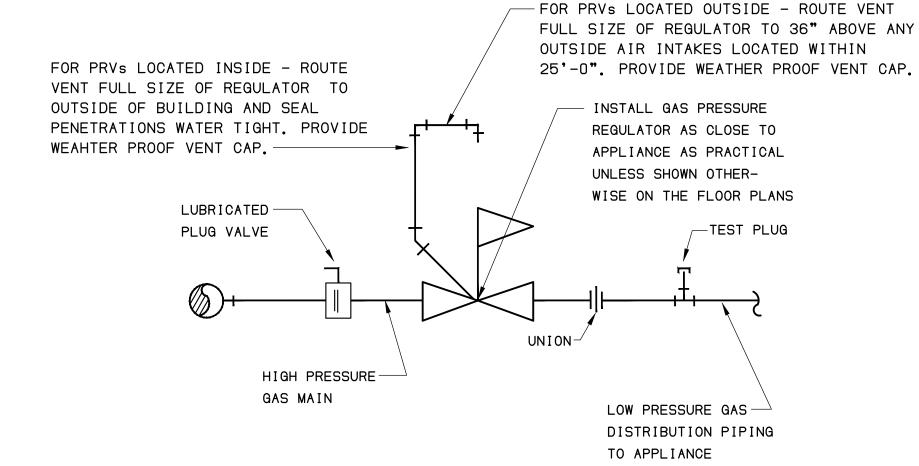
-FLEXIBLE DUCT

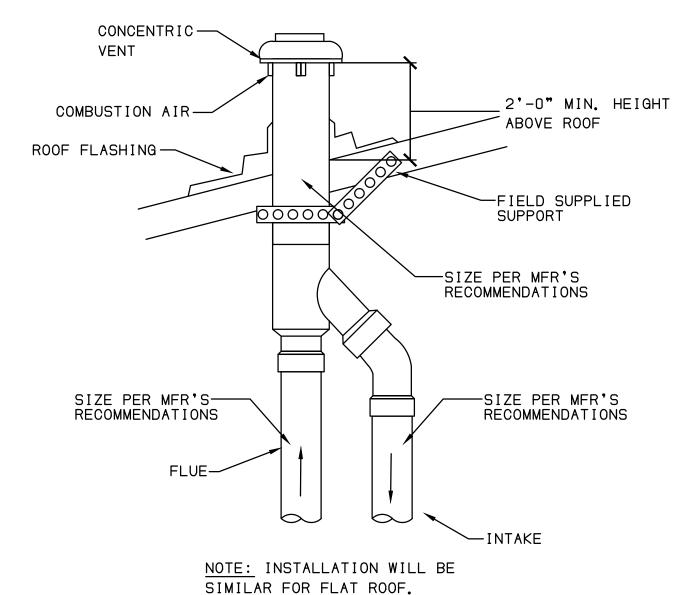
- PROVIDE SUPPORTS UNDER UNIT. SUPPORT TO BE

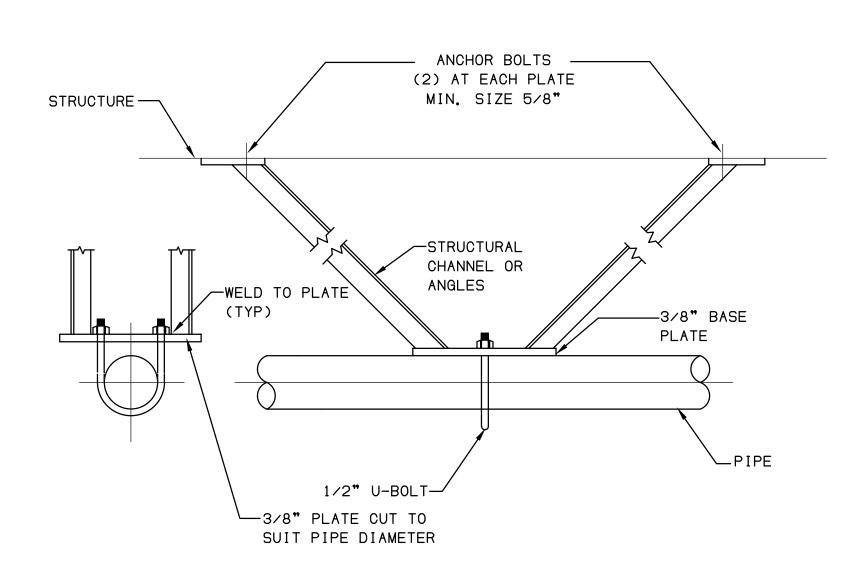
MADE OF A NONCOMBUSTIBLE MATERIAL. SUPPORTS

SHALL ELEVATE BOTTOM OF UNIT 6" (MIN) FROM

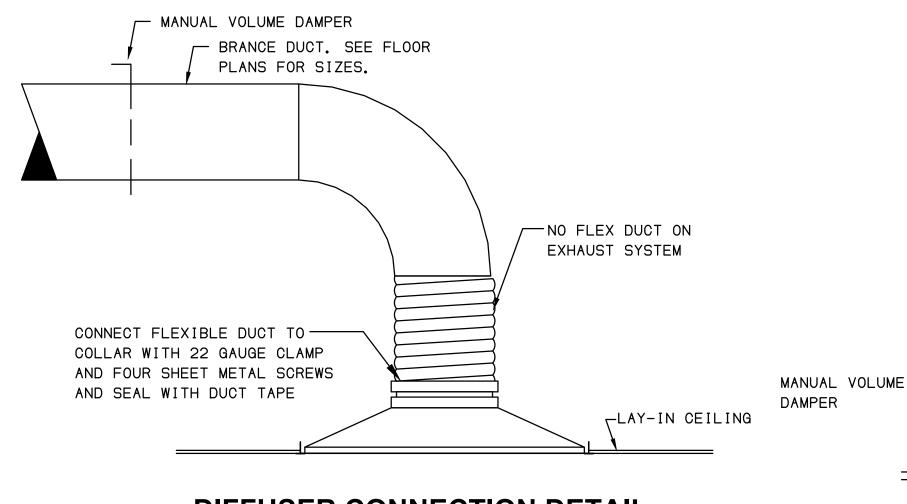
CONNECTION







8 SEISMIC GAS BRACING DETAIL



4 DIFFUSER CONNECTION DETAIL

NOT TO SCALE

DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN, BUT NO LESS THAN 1-1/4" CLEAN — III OUT 1" MIN. -DRAIN PAN – UN I ON

> CONDENSATE DRAIN TRAP DETAIL NOT TO SCALE

SEE PLBG SHEETS FOR CONTINUATION.

NOTES:

MATERIAL.

PAD MADE OF NONCOMBUSTIBLE

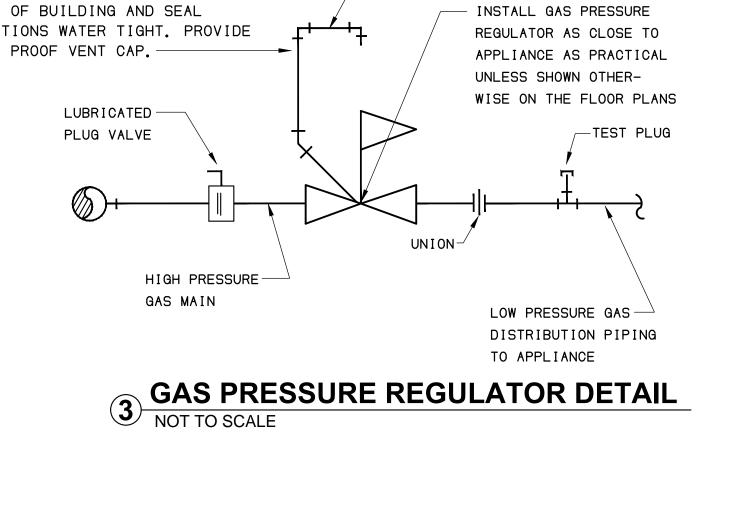
- CEILING

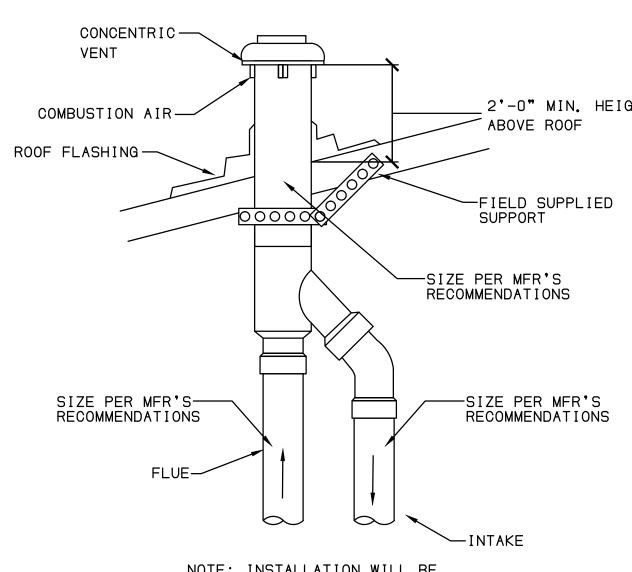
FLEXIBLE DUCT CONNECTION -

RA DUCT

- 1. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT.
- 2. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE.
- 3. FABRICATE DRAIN PAN FROM 22 GA GALVANIZED SHEET METAL.
- 4. EXTEND AUXILIARY DRAIN LINE TO CONSPICUOUS POINT PER CODE OR PROVIDE FLOAT SWITCH INTERLOCKED WITH SUPPLY FAN.
- 5. PROVIDE WORK PLATFORM ON SERVICE SIDE OF UNIT PER CODE.







6 CONCENTRIC VENT DETAIL NOT TO SCALE

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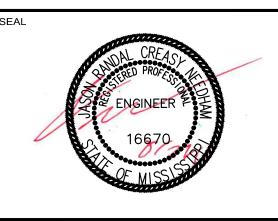
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Engineering, pllc

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		DETAILS -
		CHANICAL

M207

08-24-15

AS NOTED

DRAWN BY: MDN

CHECKED BY: JRN

DRAWING NUMBER

SCALE:

	AIR D	ISTRIE	BUTION	DEVICE S	SCHEDULE
MARK	NECK SIZE	FACE SIZE	MAX. N.C. RATING	MAXIMUM S.P. DROP, IN.	COMMENTS
A	6 " ¢	12×12	30	0, 1	1
В	8 " ø	24×24	30	0.1	1
C	10 " φ	24×24	30	0.1	1
D	12 " ø	24×24	30	0.1	1
E	6 " ø	12×12	30	0.1	2
F	22×22	24×24	30	0, 1	2

- 1 SUPPLY AIR DEVICE TO BE LOUVERED FULL FACE TYPE EQUAL TO TITUS TMS.
- 2 RETURN/EXHAUST AIR DEVICE TO BE TITUS 50F EGG CRATE.

		CONDE	ENSIN	G UNI	T SCH	HEDU	LE	
G	SENERAL DAT	-A	(COOLING DA	ТА	ELECT	RICAL DATA	
MARK	SERVES	NOMINAL TONNAGE	MIN SEER	AMBIENT AIR (°F)	COOLING CAPICITY (BTU/HR)	MCA	VOLTAGE/ PHASE	COMMENTS
CU-1	AHU-1	5	13	105	60,000	35	208/1	1 2 3
CU-2	AHU-2	3	13	105	36,000	20	208/1	$\boxed{1}\boxed{2}\boxed{3}$
CU-3	AHU-3	3.5	13	105	42,000	26	208/1	1233
CU-4	AHU-4	3	13	105	36,000	20	208/1	1 2 3

- (1) CONDENSING UNIT SHALL BE EQUAL TO TRANE MODEL 4TT OR AN APPROVED EQUAL.
- 2 ANCHOR UNIT TO 4" THICK POURED IN PLACE CONCRETE PAD.
- 3 SIZE REFRIGERANT PIPE PER MANUFACTURER'S RECOMMENDATIONS.

					GAS-F	FIRED AI	R HA	NDLI	ng uni	T SCH	HEDULE				
	GENERA	L DATA		ELECTRI	CAL DATA		DX COOL	ING COIL	DATA		GAS HEAT	ING SECTION	DATA		
MARK	CFM	OSA	EXT. S.P.W.G.	MOTOR HP	VOLTS/ PHASE	REFRIGERANT	ENT. A	IR TEMP 'Fwb	SENSIBLE BTU/HR	TOTAL BTU/HR	ENT. AIR TEMP	NO. OF STAGES	INPUT BTU/H	OUTPUT BTU/H	COMMENTS
AHU-1	1800	200	0.7	3/4	120/1	R-410A	80	67	44,000	60,000	60	2	90,000	110,000	(1) (2) (3) (4)
AHU-2	1065	150	0.7	1/2	120/1	R-410A	80	67	31,00	36,000	60	2	60,000	75,000	(1)(2)(3)(4)
AHU-3	1300	150	0.7	1/2	120/1	R-410A	80	67	34,000	42,000	60	2	60,000	75,000	(1)(2)(3)(4)
AHU-4	1100	150	0.7	1/2	120/1	R-410A	80	67	31,000	36,000	60	2	60,000	75,000	$\langle 1 \rangle \langle 2 \rangle \langle 3 \rangle \langle 4 \rangle$

- $\langle 1
 angle$ AIR HANDLING UNIT SHALL BE DIRECT VENT EQUAL TO TRANE TDH OR AN APPROVED EQUAL.
- SIZE REFRIGERANT PIPE PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING SHALL BE TYPE ACR DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. REFRIGERANT PIPING TO HAVE 3/8" ARMAFLEX INSULATION. PROVIDE VALVES AND SPECIALTIES IN ACCORDANCE WITH EQUIPMENT MFR.'S RECOMMENDATIONS.
- 3 PROVIDE PROGRAMMABLE THERMOSTAT, GAS HEAT, SINGLE POINT ELECTRICAL CONNECTION, AUXILIARY DRAIN PAN UNDER ENTIRE UNIT WITH FLOAT SWITCH, & 1" PLEATED FILTER.
- 4 ELECTRICAL CONTRACTOR TO PROVIDE AND WIRE SUPPLY AND RETURN DUCT SMOKE DETECTORS. MECHANICAL CONTRACTOR TO MOUNT DETECTORS.

				FXH	AUST	FAN SC	HFDUI	F		
		GEN	ERAL DATA			FAN W		ELECTRIC	CAL DATA	
MARK	CFM	MAX SONE RATING	EST ESP IN. WG	DISCHARGE	TYPE	DRIVE	FAN SPEED RPM	MOTOR WATTS	VOLTS/ PHASE	COMMENTS
EF-1, 2, 3, 4	85	2, 0	0, 25	WALL	INLINE	DIRECT	950	100	120/1	1 INTERLOCK WITH LIGHTS

FAN TO BE EQUAL TO GREENHECK MODEL SP-B110 WITH GRILLE KIT, DISCONNECT, BACKDRAFT DAMPER, CONTROL TRANSFORMER, SPEED CONTROLLER, AND HANGING VIBRATION ISOLATION KIT.

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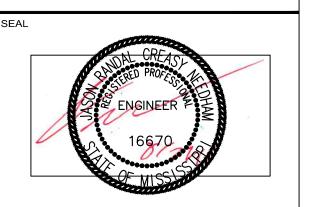
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1	08/11/2015	Review Set
2	08/24/2015	Bid Set
PRO	JECT NAME:	
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