

MECHANICAL PLAN KEY NOTES

- 1
- NEW ROOFTOP UNIT (RTU-1) (10 TON) (4000 CFM).
- 2
- NEW ROOFTOP UNIT (RTU-2) (10 TON) (4000 CFM).
- 3
- NEW ROOFTOP UNIT (RTU-3) (10 TON) (4000 CFM).
- 4
- NEW ROOFTOP UNIT (RTU-4) (10 TON) (4000 CFM).
- 5
- DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AIR DUCTWORK FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- 6
- TRANSITION SUPPLY AIR DUCT FROM RTU-1 TO A 30"x16" SUPPLY AIR DUCT IN DROP. TRANSITION AS NECESSARY.
- 7
- FULL SIZE RETURN AIR DUCT DOWN FROM RTU-1. MECHANICAL CONTRACTOR TO ADD ELBOW AND COVER DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- 8
- TRANSITION SUPPLY AIR DUCT FROM RTU-2 TO A 30"x16" SUPPLY AIR DUCT IN DROP. TRANSITION AS NECESSARY.
- 9
- FULL SIZE RETURN AIR DUCT DOWN FROM RTU-2. MECHANICAL CONTRACTOR TO ADD ELBOW AND COVER DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- 10
- TRANSITION SUPPLY AIR DUCT FROM RTU-3 TO A 30"x16" SUPPLY AIR DUCT IN DROP. TRANSITION AS NECESSARY.
- 11
- FULL SIZE RETURN AIR DUCT DOWN FROM RTU-3. MECHANICAL CONTRACTOR TO ADD ELBOW AND COVER DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- 12
- TRANSITION SUPPLY AIR DUCT FROM RTU-4 TO A 16"x30" SUPPLY AIR DUCT IN DROP. TRANSITION AS NECESSARY.
- 13
- FULL SIZE RETURN AIR DUCT DOWN FROM RTU-4. MECHANICAL CONTRACTOR TO ADD ELBOW AND COVER DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- 14
- MOUNT REMOTE SENSOR CONTROL FOR RTU-1 AT THIS LOCATION. VERIFY EXACT LOCATION WITH ANTHROPOLOGIE'S FIELD REPRESENTATIVE FOR CONFLICT WITH FIXTURES.
- 15
- MOUNT REMOTE SENSOR CONTROL FOR RTU-2 AT THIS LOCATION. VERIFY EXACT LOCATION WITH ANTHROPOLOGIE'S FIELD REPRESENTATIVE FOR CONFLICT WITH FIXTURES.
- 16
- MOUNT REMOTE SENSOR CONTROL FOR RTU-3 AT THIS LOCATION. VERIFY EXACT LOCATION WITH ANTHROPOLOGIE'S FIELD REPRESENTATIVE FOR CONFLICT WITH FIXTURES.
- 17
- MOUNT REMOTE SENSOR CONTROL FOR RTU-4 AT THIS LOCATION. VERIFY EXACT LOCATION WITH ANTHROPOLOGIE'S FIELD REPRESENTATIVE FOR CONFLICT WITH FIXTURES.
- 18
- MOUNT LANDLORD PROVIDED THERMOSTATS FOR RTU-1, 2, 3, & 4 AT THIS LOCATION. MOUNT AT 4'-0" ABOVE FINISH FLOOR.
- 19
- NEW ROOF MOUNTED EF-1 (400 CFM).
- 20
- NEW CEILING MOUNTED EF-2 (100 CFM).
- 21
- NEW CEILING MOUNTED EF-3 (100 CFM).
- 22
- 14"x8" EXHAUST AIR DUCT UP THRU ROOF IN PRE-FAB ROOF CURB AND CONNECT TO EF-1. TRANSITION AS NECESSARY.
- 23
- VARIABLE SPEED WALL SWITCH TO CONTROL EF-1.
- 24
- MOUNT TRANSFER AIR GRILLE AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. COVER DUCT OPENING WITH 1"x1" WIRE MESH SCREEN.
- 25
- MOUNT TRANSFER AIR GRILLE AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
- 26
- NEW AIR CURTAIN (AC-1) MOUNTED EXPOSED AT BOTTOM OF NEW CEILING AT TRUSSES WITH ALL THREADED RODS AND SPRING VIBRATION ISOLATORS.
- 27
- 1" UNDERCUT DOOR BY GENERAL CONTRACTOR.
- 28
- 8"Ø EXHAUST DUCT UP THRU ROOF IN PRE-FAB ROOF CURB TO VENT CAP.

EXHAUST FAN SCHEDULE

MARK (EF-#)	1	2	3
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL	G-080-VG	SP-200	SP-200
TYPE	ROOF MOUNTED EXHAUST FAN	CEILING MOUNTED	CEILING MOUNTED
DRIVE TYPE	DIRECT	DIRECT	DIRECT
PERFORMANCE			
AIR FLOW (CFM)	400	100	100
EXT. STATIC (IN W.C.)	0.25	.50	.50
FAN SPEED (RPM)	1611	816	816
ELECTRICAL			
VOLTS/Ø/HZ	115/1/60	115/60/1	115/60/1
FAN MOTOR HP	1/10	35 WATTS	35 WATTS
ACCESSORIES	BD, DS, RC	BD, DS	BD, DS
APPOX. WEIGHT (LBS.)	37	33	33
SERVES	VISUAL	TOILET ROOM	TOILET ROOM
NOTES	1, 2, 3	4, 5, 6, 7	4, 5, 6, 7

ACCESSORIES:
BD - BACKDRAFT DAMPER, DS - DISCONNECT SWITCH,
RC - 12" HIGH ROOF CURB

NOTES:

1.
- VARI-GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DIAL FOR BALANCING PURPOSES
2.
- FAN SHALL BE CONTROLLED FROM WALL MOUNTED VARIABLE SPEED CONTROL SWITCH PROVIDED WITH FAN AND WIRED BY ELECTRICAL CONTRACTOR.
3.
- SOLID STATE SPEED CONTROL.
4.
- FAN SHALL BE CONTROLLED THROUGH LIGHT SWITCH
5.
- UL/cUL 507 LISTED.
6.
- ISOLATION KIT.
7.
- ENERGY STAR RATED.

VENTILATION SCHEDULE

HVAC UNIT	AREA SERVED	OCCUPANT LOAD	REQUIRED VENTILATION	OA REQUIRED (CFM)	OA SUPPLIED (CFM)	REMARKS
RTU-1 RTU-2 RTU-3 RTU-4	SALES	6878 SF (103 PEOPLE)	((7.5 CFM PER PERSON) + (.12 CFM PER SF)) x 1.25	1998	2213	
RTU-1	FITTING ROOMS	459 SF (6 PEOPLE)	((7.5 CFM PER PERSON) + (.12 CFM PER SF)) x 1.25	125	140	
RTU-3	FLEX	159 SF (2 PEOPLE)	((7.5 CFM PER PERSON) + (.12 CFM PER SF)) x 1.25	42	70	
RTU-3	BOH HALLWAY	197 SF	(.06 CFM PER SF) x 1.25	14	87	
RTU-3	STOCK	490 SF (1 PERSON)	((5 CFM PER PERSON) + (.06 CFM PER SF)) x 1.25	43	140	
RTU-3	OFFICE	83 SF (1 PERSON)	((5 CFM PER PERSON) + (.06 CFM PER SF)) x 1.25	12	35	
RTU-3	VISUAL MERCANDISE	144 SF (2 PEOPLE)	((7.5 CFM PER PERSON) + (.12 CFM PER SF)) x 1.25	40	70	400 CFM EA FROM EF-1 (INTERMITENT)
RTU-4	SHOE STOCK	138 SF (1 PERSON)	((5 CFM PER PERSON) + (.06 CFM PER SF)) x 1.25	16	27	
EF	TOILET ROOM 1	1 WC	70 CFM PER WC	70 CFM EXHAUST	100 CFM EXHAUST	9 CFM OA FROM RTU-3
EF	TOILET ROOM 2	1 WC	70 CFM PER WC	70 CFM EXHAUST	100 CFM EXHAUST	9 CFM OA FROM RTU-3
TOTAL				2403	2800	

GENERAL NOTES

1.
- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
2.
- COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
3.
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
4.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
5.
- HVAC CALCULATIONS ARE TO BE PERFORMED AT ASHRAE 0.04% STANDARDS.

EXPOSED SUPPLY AIR DUCTWORK

1.
- ALL NEW EXPOSED SUPPLY AIR DUCTWORK SHALL BE RECTANGULAR DUCTS UNLESS OTHERWISE INDICATED ON PLAN.
2.
- DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEETS WITH AIRTIGHT LOCKED JOINTS.

THERMOSTAT/ SENSOR NOTES

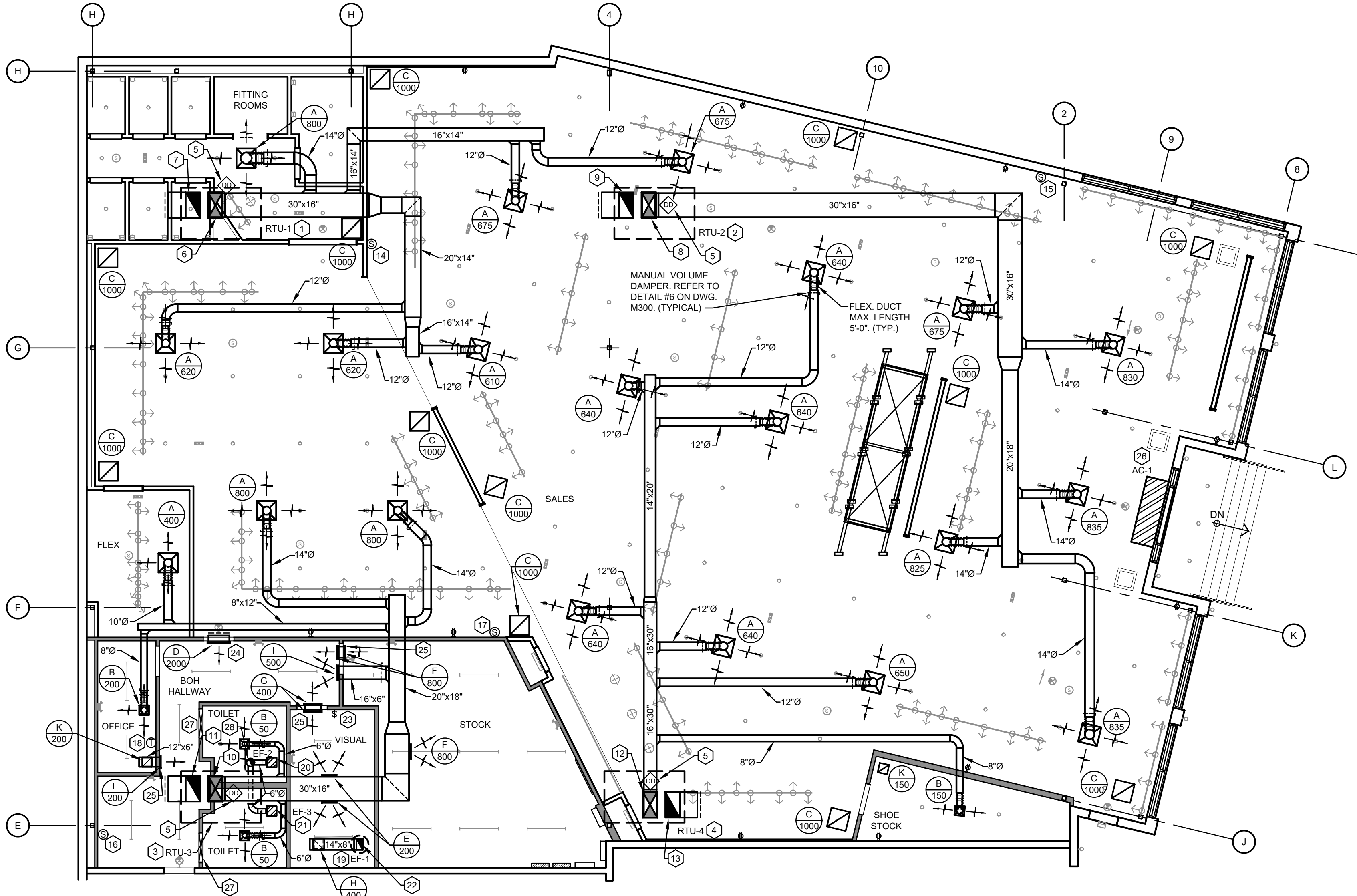
1.
- ALL THERMOSTAT/SENSORS TO BE LOCATED 4'-0" ABOVE FINISHED FLOORS.
2.
- WHERE THEROMSTATS/SENORS ARE LOCATED ON INTERIOR COLUMNS THEY SHOULD BE LOCATED AT REAR OF COLUMN WITH RELATION TO FRONT OF STORE.
3.
- THERMOSTAT/SENSOR SHALL NOT BE LOCATED ON FEATURE WALLS OR VIGNETTE WALLS.

DEMOLITION NOTE

ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, HANGERS, SUPPORTS, PIPING, AND ACCESSORIES SERVING THIS SPACE AND NOT INDICATED TO REMAIN SHALL BE REMOVED BY THE LANDLORD. LANDLORD SHALL REMOVE UN-USED ROOF CURBS AND PATCH ROOF.

NOTE

MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES THAT A CEILING PLENUM RETURN IS BEING USED. ALL MATERIALS INSTALLED SHALL BE NON COMBUSTIBLE AND/OR HAVE FLAME SPREAD RATING OF 25 AND SMOKE DEVELOP OF 50 OR LESS.



MECHANICAL PLAN
SCALE: 1/8"=1'-0"

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MECHANICAL PLAN

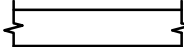
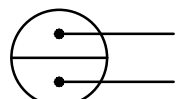
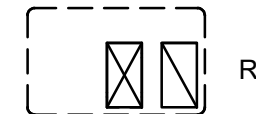
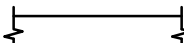
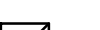
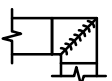
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LL-M100

DIFFUSER, REGISTER, LOUVER SCHEDULE												
MARK	A	B	C	D	E	F	G	H	I	J	K	L
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	OMNI	OMNI	OMNI	350RL	300RL	300RL	350RLF1	350RL	300RL	350RL	350RL	350RL
TYPE	CEILING DIFFUSER	CEILING DIFFUSER	RETURN AIR GRILLE	TRANSFER AIR GRILLE	SUPPLY AIR GRILLE (DOUBLE DEFLECTION)	SUPPLY AIR GRILLE (DOUBLE DEFLECTION)	TRANSFER AIR GRILLE	EXHAUST GRILLE	SUPPLY AIR GRILLE (DOUBLE DEFLECTION)	TRANSFER AIR GRILLE	RETURN AIR GRILLE	TRANSFER AIR GRILLE
NECK SIZE (L"xW")	AS NOTED	AS NOTED	15"Ø	30"x12"	12"x8"	18"x10"	18"x10"	12"x12"	18"x8"	18"x10"	10"x10"	12"x6"
FACE SIZE (L"xW")	24"x24"	12"x12"	24"x24"	31-3/4"x13-3/4"	13-3/4"x9-3/4"	19-3/4"x11-3/4"	19-3/4"x11-3/4"	13-3/4"x13-3/4"	19-3/4"x9-3/4"	19-3/4"x11-3/4"	11-3/4"x11-3/4"	13-3/4"x7-3/4"
FRAME TYPE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	DUCT MOUNTED	DUCT MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED
FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	MILL FINISH	MILL FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH	STANDARD OFF-WHITE FINISH
NOISE CRITERIA LEVEL	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
DAMPER	OPPOSED BLADE	OPPOSED BLADE	NONE	NONE	OPPOSED BLADE	OPPOSED BLADE	NONE	OPPOSED BLADE	OPPOSED BLADE	NONE	NONE	NONE
NOTES	2, 5	2, 5	2, 5	1, 3	4	3	1, 3, 6, 7	1, 4	3	1, 3	1, 5	1, 3
ACCESSORIES: EXT - EXTRACTOR, OBD - OPPOSED BLADE DAMPER												
NOTES: 1. ALUMINUM CONSTRUCTION RETURN/EXHAUST/TRANSFER GRILLES WITH BLADES SET AT 22.5 DEGREES FACING CEILING OR BACK WALL. 2. PROVIDE WITH RAPID MOUNT FRAME SUITABLE FOR INSTALLATION IN DRYWALL TYPE CEILINGS, WHERE APPLICABLE. 3. WALL MOUNTED 4. DUCT MOUNTED (TO BE FLUSH MOUNTED WITH AIR EXTRACTORS INSTALLED) 5. CEILING MOUNTED ACCEPTABLE ALTERNATE MANUFACTURERS: PRICE, KRUEGER												
6. (2) EXTRA SETS OF 1" FILTERS (MERV 13) FOR TRANSFER GRILLE. 7. HINGED PANEL ON LEFT SIDE.												

ROOFTOP UNIT SCHEDULE				
MARK (RTU - #)	1	2	3	4
MANUFACTURER	TRANE	TRANE	TRANE	TRANE
MODEL	YSK120A3S0L	YSK120A3S0L	YSK120A3S0L	YSK120A3S0L
NOMINAL TONS	10	10	10	10
AIR FLOW (CFM)	4000	4000	4000	4000
OA FLOW (CFM)	700	700	700	700
AMBIENT OAT (*F)	105	105	105	105
EXT. S.P. (IN W.C.)	1.056	1.056	1.056	1.056
EER / SEER	11.0 EER	11.0 EER	11.0 EER	11.0 EER
DX COOLING COIL				
EAT (*FDB/WB)	80/67	80/67	80/67	80/67
TOTAL (MBH)	129.49	129.49	129.49	129.49
SENSIBLE (MBH)	97.89	97.89	97.89	97.89
GAS HEATING				
INPUT (MBH)	150	150	150	150
OUTPUT (MBH)	121.5	121.5	121.5	121.5
AFUE %	80	80	80	80
ELECTRICAL				
VOLTS/Ø/HZ	208/3/60	208/3/60	208/3/60	208/3/60
MOTOR HP	3	3	3	3
MCA	57	57	57	57
MOCP	80	80	80	80
APPROX. WEIGHT (LBS.)	1122	1122	1122	1122
ACCESSORES 1) REFRIGERANT DETECTION SYSTEM. 2) DRY BULB LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF AND HOODS WITH ECONOMIZER FAULT DETECTION & DIAGNOSTIC. 3) SMART EQUIPMENT CONTROLLER INCLUDING DISCHARGE AIR, RETURN AIR, AND OUTDOOR AIR TEMPERATURE SENSORS. BACNET MS/TP, MODBUS AND N2 COMMUNICATION CARD. 4) POWERED CONVENIENCE OUTLET (110 VAC / 15 AMP) 5) HACR CIRCUIT BREAKER/DISCONNECT. 6) SUPPLY AIR SMOKE DETECTOR. 7) FACTORY APPLIED ELECTROFIN COATING FOR CONDENSER COIL SIMILAR MANUFACTURERS: TRANE, CARRIER				

MECHANICAL SYMBOLS

	EXISTING METAL DUCTWORK		SCHEDULE NUMBER		SQUARE NOTE DESIGNATION	BTU	BRITISH THERMAL UNIT	TYP	TYPICAL
	NEW SHEET METAL DUCTWORK		CFM		REVISION DESIGNATION	CFM	CUBIC FEET PER MINUTE	WC	WATER COLUMN
	DUCTWORK TRANSITION		ROOFTOP UNIT		MANUAL VOLUME DAMPER	EA	EXHAUST AIR	MC	MECHANICAL CONTRACTOR
	DUCT BRANCH TAKE-OFF			AFF	ABOVE FINISHED FLOOR	SF	OUTSIDE AIR SUPPLY FAN	GC	GENERAL CONTRACTOR
	ROUND SPIN-IN WITH DAMPER		CEILING MOUNTED EXHAUST FAN	BDD	BACKDRAFT DAMPER	DB	DRY BULB	LL	LANDLORD
			SUPPLY DIFFUSER	BHP	BRAKE HORSEPOWER	EAT	ENTERING AIR TEMPERATURE	PC	PLUMBING CONTRACTOR
	FLEXIBLE DUCTWORK		RETURN GRILLE	SA	SUPPLY AIR	EWT	ENTERING WATER TEMPERATURE	EC	ELECTRICAL CONTRACTOR
	DUCT ELBOW WITH DOUBLE THICKNESS FIXED TURNING VANES (TO BE USED ONLY WHERE ROUND TURNS AREN'T FEASIBLE)		SUPPLY AIR DROP	RA	RETURN AIR	HZ	FREQUENCY	PD	PRESSURE DROP
			RETURN/ EXHAUST AIR RISER		SIDEWALL MOUNTED SUPPLY REGISTER	LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
	THERMOSTAT - ELECTRIC		DUCT MOUNTED SMOKE DETECTOR	AHU	AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE		
	REMOTE TEMPERATURE SENSOR - ELECTRIC			CU	CONDENSING UNIT	OA	OUTSIDE AIR		
THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.									

DUCTWORK DESIGN / INSTALLATION REQUIREMENTS							
DUCTWORK LOCATION / CONDITION	DUCTWORK TYPE	DUCTWORK ORIENTATION	DIFFUSER ORIENTATION	DUCTWORK HANGER SYSTEM	DUCTWORK CONNECTIONS	DUCTWORK MATERIAL	DUCTWORK FINISH
NEW DUCTWORK IN EXPOSED BOH CEILING OR ABOVE HARD LID CEILING	RECTANGULAR CONNECTING TO FLEX DUCT AT LAST 5 FEET	AS INDICATED	AS INDICATED	SMACNA STRAP AND SCREW	SLIP AND DRIVE	GALVANIZED STEEL	FACTORY - NO FIELD FINISH

AIR CURTAIN SCHEDULE

MARK	AC-1
MANUFACTURER	BERNER
MODEL	ARE12-2072E
AIR FLOW (CFM)	3174
ELECTRIC HEAT	
INPUT (KW)	12
OUTPUT (BTU/HR)	40920
ELECTRICAL	
VOLTS / Ø / HERTZ	208/3/60
MOTOR QUANTITY	2
MOTOR HP	.5
MCA (AMPS PER CIRCUIT)	41.9
MOCP (AMPS PER CIRCUIT)	60
FINISH	WHITE
NOTES: 1) MOUNTED DIRECTLY ABOVE DOORS 2) MC TO COORDINATE CONTROLS WITH ARCHITECT, GC & OWNERS REPRESENTATIVE 3) WASHABLE FILTER 4) THERMAL OVERLOAD PROTECTION 5) MAGNETIC REED DOOR SWITCH 6) EXTERNAL TEMPERATURE PROVISION	

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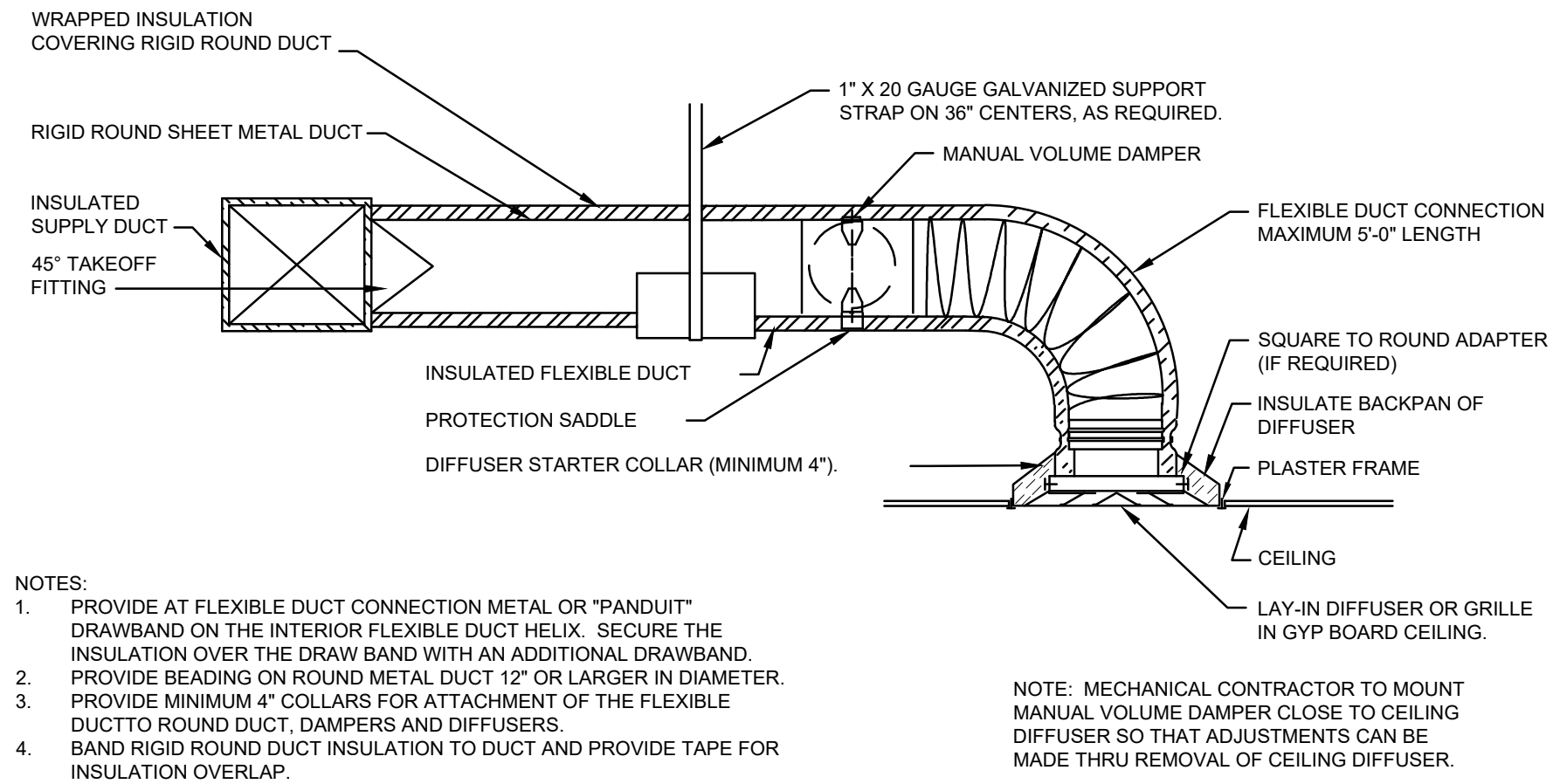
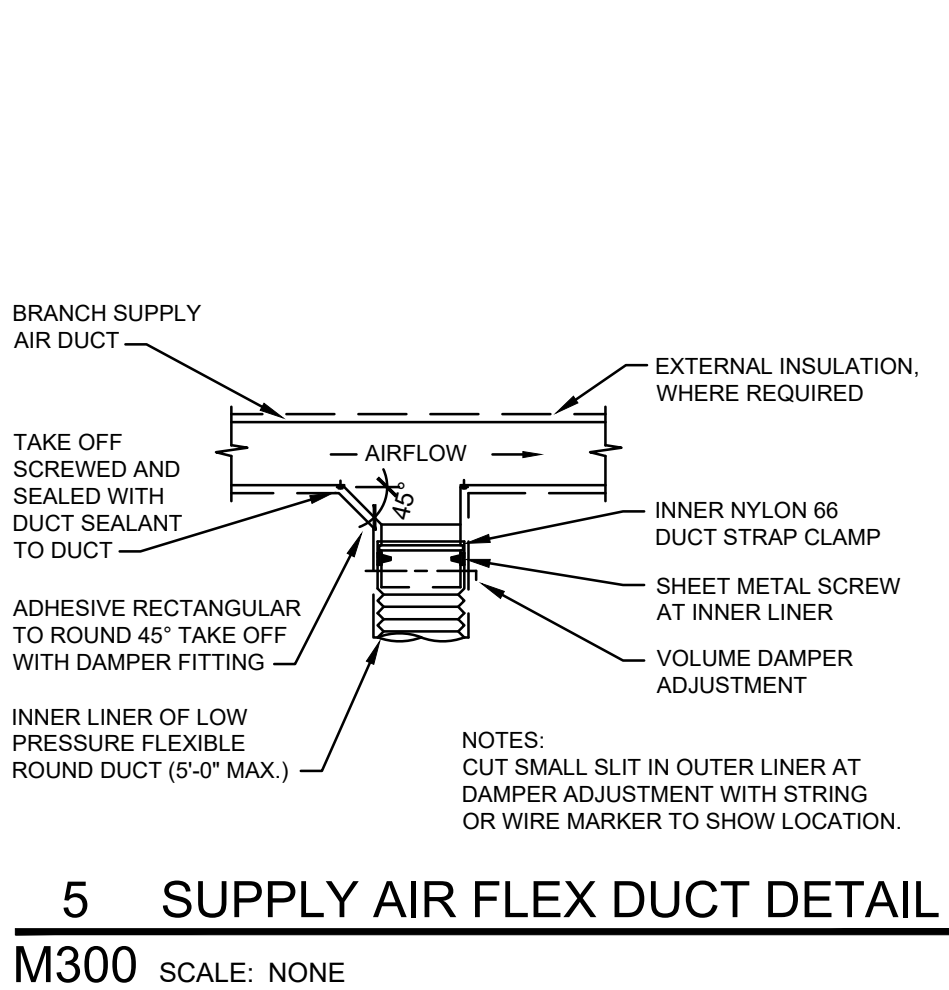
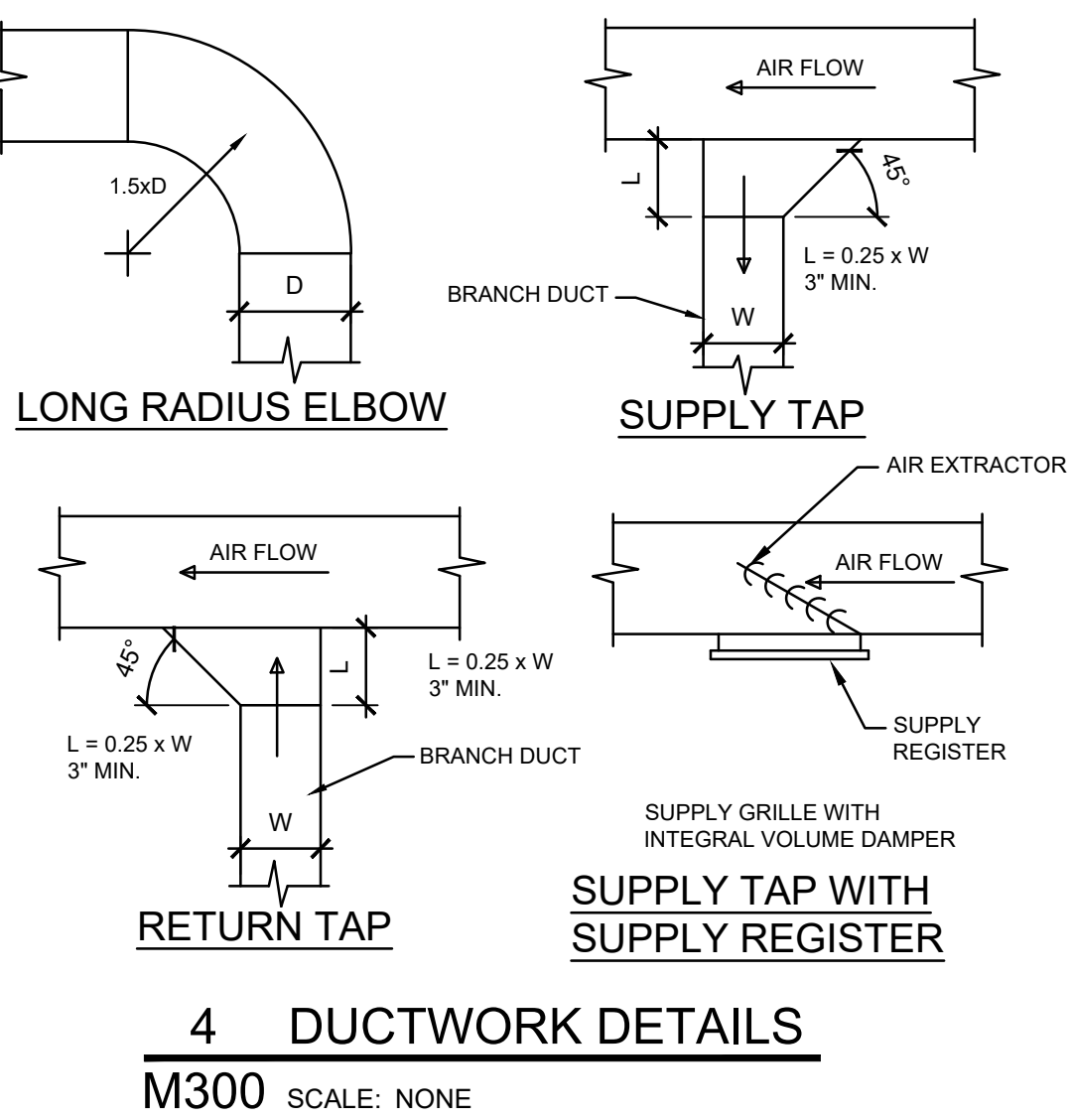
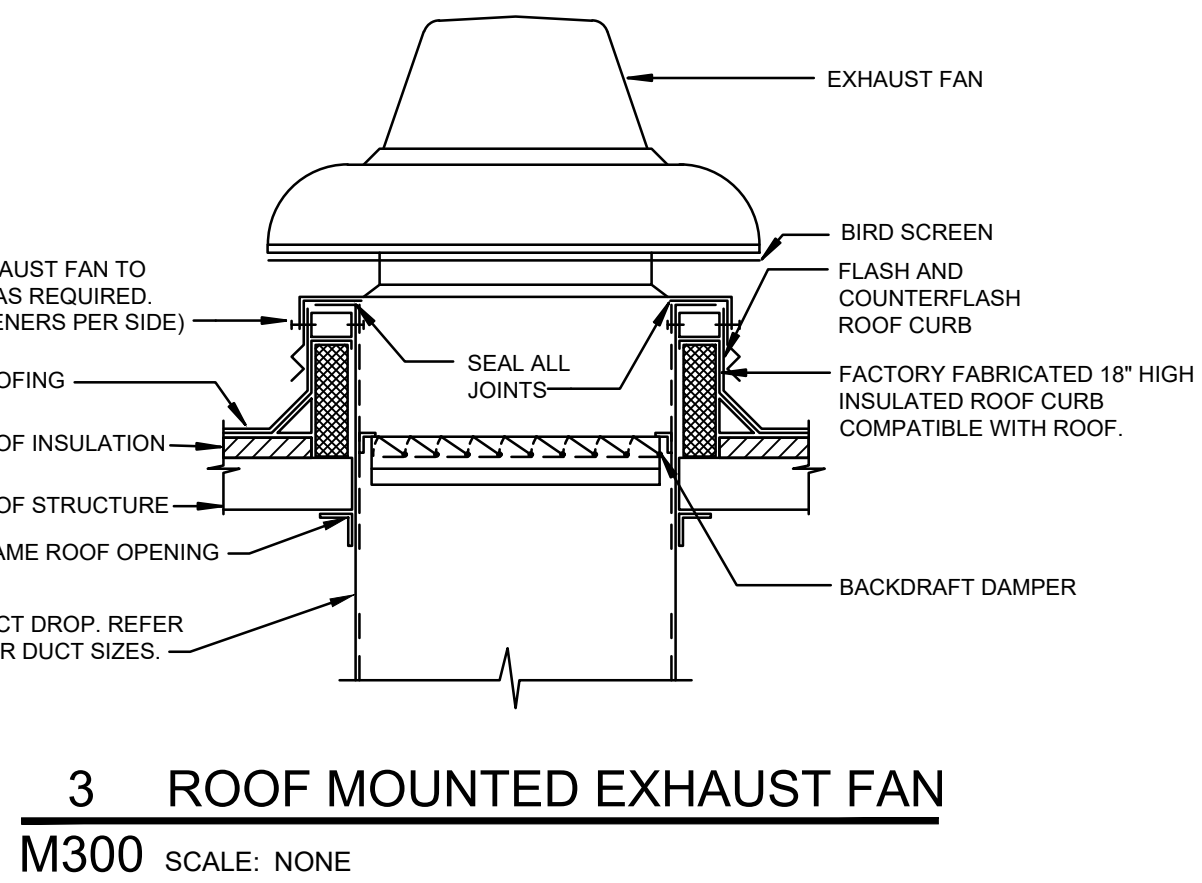
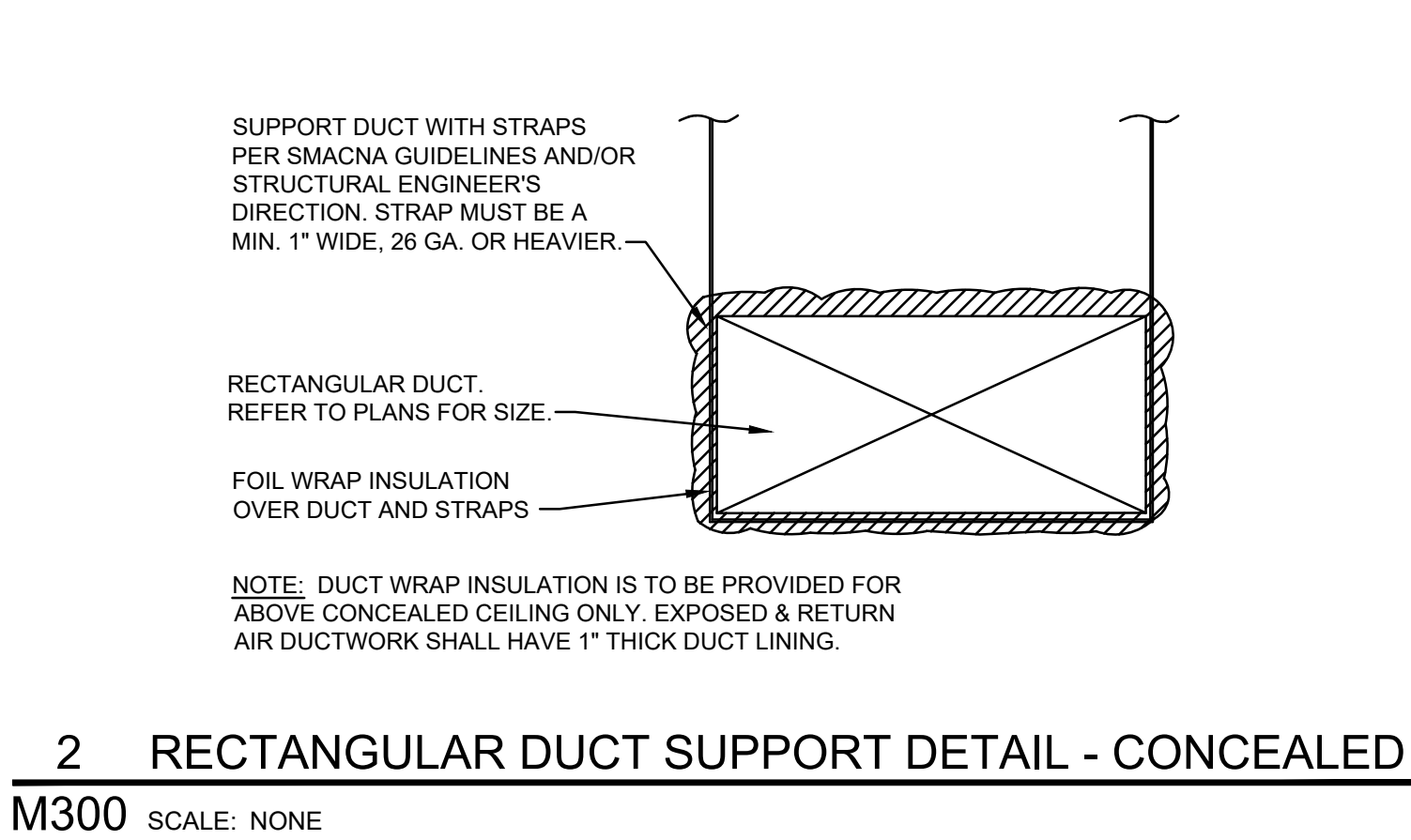
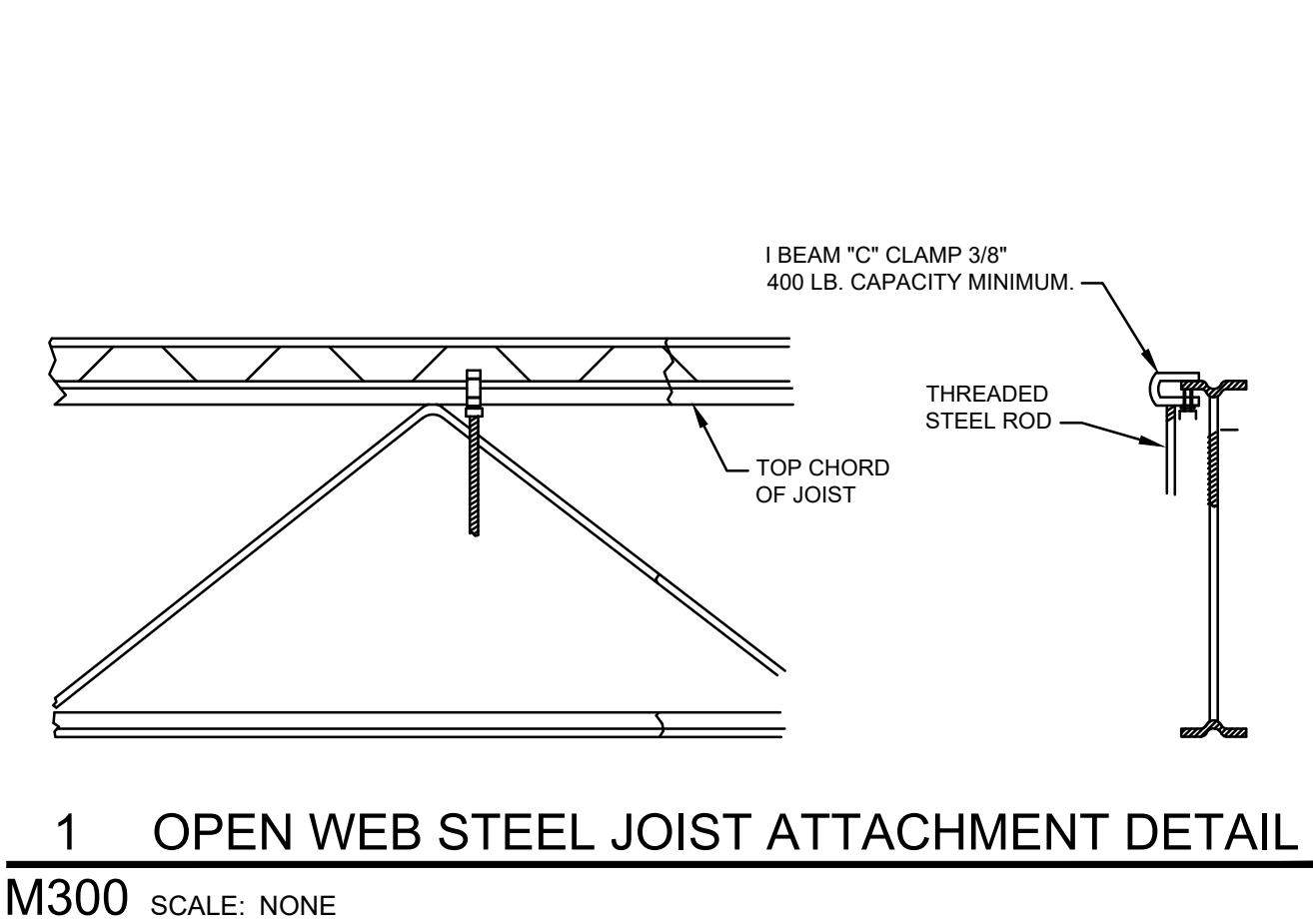
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SHEET TITLE :

MECHANICAL
SYMBOLS, NOTES
& SCHEDULES

SHEET NO. :

LL-M200



NOTES:

ATTACH MOUNTING BRACKET TO ROOF CURB BEFORE MOUNTING EQUIP.

ATTACH MOUNTING BRACKET TO INSIDE TOP OF ROOF CURB AS SHOWN USING 4 TEK SCREWS - SEE BELOW.

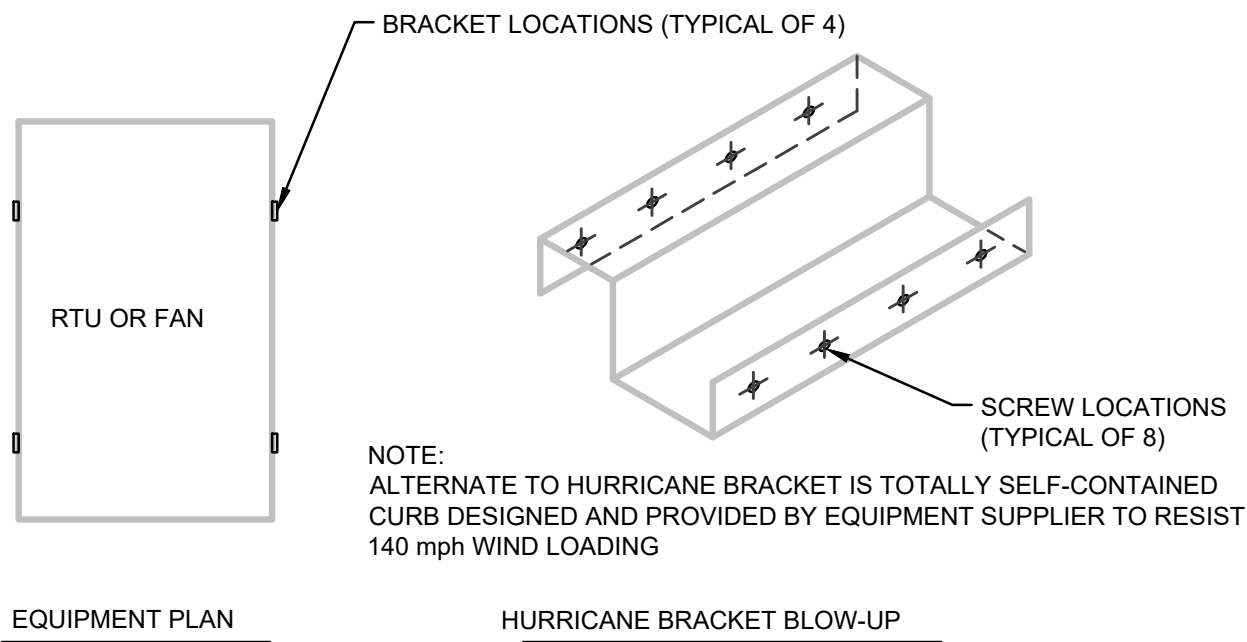
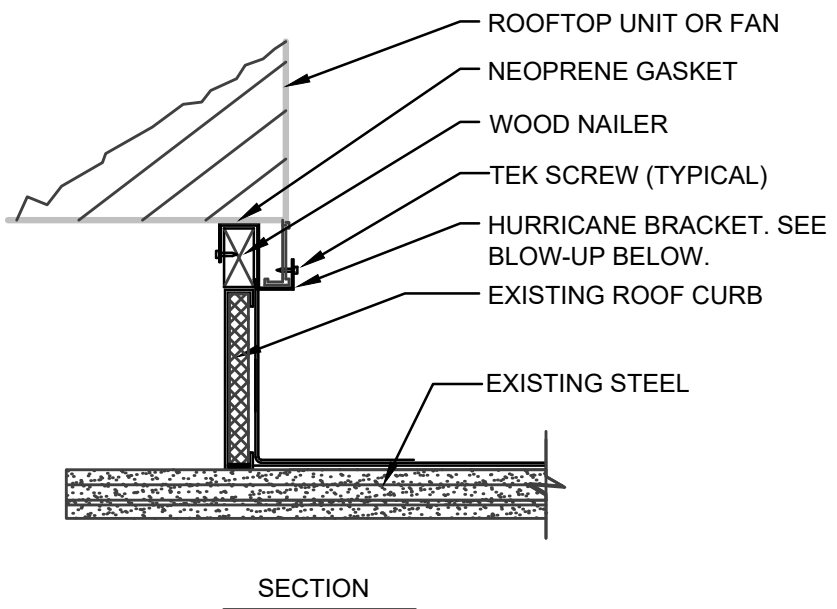
AFTER MOUNTING EQUIPMENT ON ROOF CURB, ATTACH BOTTOM OF BRACKET TO BASE RAIL OF EQUIP. AS SHOWN BELOW USING 4 TEK SCREWS.

HARDWARE PACKAGE:

(4) 10 GAUGE STEEL ATTACHMENT BRACKETS MANUFACTURED BY AES-INC. PHONE: 800-786-0402 - OR EQUAL

(32) #10 TEK SCREWS

(2) BRACKETS ON EACH LONG SIDE OF CURB, EQUALLY SPACED.



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SHEET TITLE :

**MECHANICAL
DETAILS**

SHEET NO. :

LL-M300

MECHANICAL NOTES AND SPECIFICATIONS

1. GENERAL NOTES:

- IF ANY DISCREPANCY EXISTS BETWEEN THESE DOCUMENTS, MECHANICAL CONTRACTOR MUST REQUEST IN WRITING, CLARIFICATION FROM ANTHROPOLOGIE, ARCHITECT AND ENGINEER. CONTRACTOR SHALL OBTAIN COPY OF MECHANICAL SPECIFICATION BOOK FOR ADDITIONAL INFORMATION.
1. BY SUBMITTING A QUOTATION OR PROPOSAL, THE MECHANICAL CONTRACTOR EXPRESSLY STATES AND WARRANTS THAT: ALL DRAWINGS AND SPECIFICATIONS HAVE BEEN THOROUGHLY REVIEWED, CONTRACTOR HAS BECOME FAMILIARIZED WITH JOB SITE CONDITIONS AND IS TOTALLY QUALIFIED TO PERFORM ALL OF THE WORK REQUIRED.
2. BEFORE SUBMITTING A FINAL PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE OF THE PROPOSED WORK TO DETERMINE THE EXISTING CONDITIONS THAT MAY AFFECT THE PROPOSAL. IF DISCREPANCIES ARE NOTED BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS THE ARCHITECT SHALL BE NOTIFIED AND THE CONTRACTOR SHALL RECEIVE CLARIFICATION BEFORE SUBMITTING A BID. THE SUBMISSION OF A PROPOSAL SHALL INDICATE THAT ALL CHARGES AND COSTS MADE NECESSARY BY EXISTING CONDITIONS ARE INCLUDED AND THAT THE COMPLETE SYSTEM AS DESCRIBED ABOVE WILL BE FURNISHED AT THE PROPOSED COST.
3. IF WORK IS NOT SPECIFIED BUT REQUIRED BY CODE, THE WORK SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE, FINISHED, TESTED, ADJUSTED AND OPERATIONAL MECHANICAL SYSTEM. ANY APPARATUS, MATERIAL, WORK OR INCIDENTAL ITEMS REQUIRED TO MAKE THE SYSTEM COMPLETE AND READY FOR OPERATION SHALL BE INCLUDED IN THE MECHANICAL CONTRACTOR'S PROPOSAL WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS.
5. THE LANDLORD'S "TENANT CRITERIA MANUAL" FORMS A PART OF THESE SPECIFICATIONS. ANY DISCREPANCY BETWEEN THESE SPECIFICATIONS AND THE "TENANT CRITERIA MANUAL" THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. ANY EQUIPMENT REQUIRED OF THE MANUAL BUT NOT SHOWN ON THESE SPECIFICATIONS SHALL BE PROVIDED AT THIS CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A COPY OF THE TENANT CRITERIA MANUAL FROM THE MALL AND BECOMING FAMILIAR WITH ITS CONTENTS.
6. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY ARE INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT, DUCTS, PIPING, ETC. THE MECHANICAL CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY WORK.
7. THE ENTIRE INSTALLATION, INCLUDING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM TO ALL APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE AND FEDERAL AUTHORITIES AND SHALL ALSO BE IN COMPLIANCE WITH THE LANDLORD'S CRITERIA AND THE LATEST EDITIONS OF ASHRAE STANDARDS, THE LIFE SAFETY CODE, THE STANDARD BUILDING CODE, UNDERWRITERS LABORATORIES, THE NATIONAL ELECTRICAL CODE, NFPA 70, 90A, AND 96.
8. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES PERTAINING TO HIS WORK.
9. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH DETAILED REQUIREMENTS OF LEASE EXTRACTS FROM THE LANDLORD AND TENANT.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN AIR-CONDITIONING AND HEATING SYSTEM IN ACCORDANCE WITH LANDLORD CRITERIA.
11. COORDINATE LOCATIONS OF ALL AIR OUTLETS WITH ALL WALLS, LIGHTS, SPRINKLER HEADS, CEILING TILES AND DECORATIVE CEILING FIXTURES PRIOR TO INSTALLATION.
12. EQUIPMENT AND MATERIALS IN TRANSIT SHALL UTILIZE FREIGHT ELEVATOR OR STAIRS. SAID EQUIPMENT OR MATERIALS SHALL BE DISASSEMBLED AS REQUIRED TO MEET THE RESTRICTIONS IMPOSED BY THE BUILDING OR ITS COMPONENT CONSTRAINTS AND THEN REASSEMBLED IN THE NEW WORK AREA.
13. ALL WORK SHALL BE DONE WITH A MINIMUM OF NOISE AND DISTURBANCE TO BUSINESS ROUTINE. ALL WORK SCHEDULES SHALL BE COORDINATED WITH AND APPROVED BY, THE ARCHITECT.
14. SINCE THESE ARE SECURE FLOORS, ALL DELIVERIES, WORKERS, WORK OPERATORS, ETC., REQUIRED BY THE CONTRACTOR FOR WORK PERFORMED IN ANY AREA OR SITE BUILDING SHALL BE IN STRICT CONFORMANCE TO THE RULES AND REGULATIONS OF THE OWNER AND ARCHITECT.
15. CONTRACTOR SHALL PROTECT HIS WORK AND EQUIPMENT FROM DAMAGE, VANDALS, ETC. ANY ITEM THAT IS DAMAGED, VANDALIZED OR STOLEN PRIOR TO ACCEPTANCE OF BUILDING BY OWNER AND ARCHITECT SHALL BE REPLACED BY RESPECTIVE CONTRACTOR AT NO CHARGE TO OWNER.
16. PROVIDE ACCESS DOORS FOR ALL CONCEALED TURNING VANES IN DUCTWORK, VALVES, VENTS, DAMPERS, FIRE DAMPERS, EXPANSION JOINTS, PULL BOXES, SHOCK ABSORBERS, DRAINS, MOTORS, FANS, PUMPS AND ANY OTHER ITEM REQUIRING SERVICE. DOORS IN PLASTER OR CONCRETE SURFACES SHALL HAVE A RECESSED DOOR WITH CONCRETE OR PLASTER FACING. DOORS IN CARPETED OR TILED AREAS SHALL BE RECESSED WITH TILE FACING. NO ACCESS DOORS ARE REQUIRED IN 2' X 2' AND 2' X 4' LAY-IN ACOUSTIC TILE CEILING. PROVIDE COLORED PINS TO DENOTE ACCESS TILES. FURNISH FACTORY MADE METAL ACCESS DOORS, COMPLETELY FLUSH, "ALLAN HEAD" SCREWDRIVER OPERATED, WITH FRAMES AND CAM-TYPE CATCH WITH STAINLESS STEEL STUD. DOORS SHALL BE NOT LESS THAN 12" X 12" FOR HAND ACCESS. DOORS IN WALLS AND CEILING SHALL BE PRIME COATED CARBON STEEL. FURNISH FIRE RATED DOORS FOR FIRE RATED CONSTRUCTION. RATING OF DOOR MUST BE SAME RATING AS CONSTRUCTION.
17. IT IS SPECIFICALLY THE INTENTION OF THIS SPECIFICATION TO HOLD THE CONTRACTOR RESPONSIBLE FOR ALL DAMAGE DONE TO ANY EXISTING FACILITIES, EQUIPMENT, PAINTING, OR ARCHITECTURAL AND STRUCTURAL FEATURES OF THE BUILDING, BY EITHER THEIR OWN WORKMEN OR BY ANY OF THEIR SUBCONTRACTORS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE DONE BY HIS OWN WORKMEN OR SUBCONTRACTORS, AND THE OWNER AT HIS DISCRETION, MAY WITHHOLD PAYMENTS EQUAL TO THE REASONABLE COST OF THE REPAIRS.
18. THIS CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESSED PERMISSION OF THE OWNER AND ARCHITECT.
19. THIS CONTRACTOR OR HIS WORKMEN SHALL NOT BE PERMITTED TO USE ANY PART OF THE EXISTING BUILDING AS A SHOP WITHOUT THE APPROVAL OF THE OWNER AND ARCHITECT.
20. WHERE THE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT SUCH TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE.
21. THIS CONTRACTOR SHALL ARRANGE THE WORK SO AS TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTION TO THE EXISTING WORK. THIS CONTRACTOR SHALL GIVE AMPLE WRITTEN NOTICE IN ADVANCE TO THE OWNER OF ANY REQUIRED SHUT DOWN.
22. ALL MOTORS, FANS, CONTROLS, FIXTURES, HVAC UNIT, DUCTWORK AND OTHER EQUIPMENT FOR USE IN THIS CONTRACT SHALL BE PROTECTED BY TARPULIN OR BY BOXING AS SOON AS DELIVERED TO THE SITE, AND SHALL BE KEPT CLEAN AND DRY. THE MOTORS, UNITS, FIXTURES, FANS, DUCTWORK AND MOVING PARTS SHALL BE KEPT COVERED SO AS TO ELIMINATE DIRT, DUST, AND OTHER MATERIALS ENTERING THE PARTS DURING ERECTION AND CONSTRUCTION WORK ON THE BUILDING. SHOULD IT BE FOUND THAT ANY PARTS ARE DAMAGED DUE TO CARELESSNESS ON THE PART OF THE CONTRACTOR IN NOT PROVIDING PROPER PROTECTION, SUCH PART OR PARTS SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN COST AND EXPENSE. ALL OPENINGS IN DUCTS, PIPING, CONDUITS, ETC., SHALL BE PROPERLY PROTECTED WITH TEMPORARY CAPS OR PLUGS AT ALL TIMES.

23. THE MECHANICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL METHODS OF HANGING, SUPPORTING, CUTTING AND PATCHING WITH THE OWNER OR LANDLORD.
24. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ANY DUCTWORK INSTALLED IS TO BE COMPLETELY SEALED UP OF ANY OPENINGS, EITHER AT THE BEGINNING OR END OF A DUCT RUN OR AT A BRANCH, COLLAR DIFFUSER OR REGISTER TO AVOID DIRT OR OTHER CONTAMINANTS FROM ENTERING THE SYSTEM.
25. CONTROL WIRING AND CONTROLS: THE MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL NECESSARY WIRING (IN CONDUIT IF REQUIRED) AND CONTROLS REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
26. POWER WIRING:
A. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL EQUIPMENT AND MATERIAL REQUIRED TO PROVIDE POWER TO THE MECHANICAL EQUIPMENT FROM THE TENANT'S POWER SUPPLY.
B. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL A DISCONNECT SWITCH AND STARTER ON THE MECHANICAL EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION.
C. THE ELECTRICAL CONTRACTOR IS TO PROVIDE POWER WIRING TO THE TOILET EXHAUST FAN THROUGH THE TOILET ROOM LIGHT SWITCH WITH DELAY OFF BUILT IN.
27. THIS CONTRACTOR IS TO HIRE LANDLORD'S SPECIFIED CONTRACTOR FOR ALL ROOF AND WALL PENETRATIONS.
28. IF STRUCTURAL DRAWINGS FOR HVAC EQUIPMENT SUPPORT(S) ARE NOT ALREADY INCORPORATED INTO THIS SET OF PLANS AND SPECIFICATIONS, THE MECHANICAL CONTRACTOR, AT THEIR OWN COST AND EXPENSE, AND AS PART OF THE BID TO THE G.C., IS TO HIRE A STRUCTURAL ENGINEER TO DESIGN THE SUPPORTS FOR THE NEW HVAC UNITS AND A STRUCTURAL SUBCONTRACTOR TO FURNISH AND INSTALL SUCH HANGERS / SUPPORTS, BRACING, ETC. TO HANG FROM THE STRUCTURE FOR ALL NEW HVAC EQUIPMENT. G.C. TO SUBMIT AS REQUIRED ALL STRUCTURAL SHOP DRAWINGS TO THE LANDLORD'S ARCHITECT, AS REQUIRED, FOR APPROVAL, PRIOR TO STARTING WORK.
29. MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE AIR BALANCE OF ALL SYSTEMS AS REQUIRED PER PROJECT.
30. ALL PIPING AND DUCTWORK MUST HAVE MARKERS AND DIRECTION ARROWS EVERY 15 FEET PER INDUSTRY STANDARD, EXCEPT THROUGHOUT CUSTOMER/RETAIL AREAS WHERE DUCT/PIPING IS EXPOSED.
- II. DRAWINGS
1. SUBMIT TWO (2) SETS OF AS BUILT DRAWINGS IDENTIFIED WITH PROJECT NAME AND LOCATION, TO THE ARCHITECT OF RECORD, OF THE FOLLOWING:
1. DUCTWORK LAYOUT
2. CONTROL DIAGRAMS
3. SEQUENCE OF OPERATION
4. EXHAUST FANS & HVAC UNITS
5. AIR OUTLETS
6. INSULATION
7. PIPING
2. AS-BUILT DRAWINGS ARE NOT A SUBSTITUTE FOR SHOP DRAWINGS AND SHOULD NOT BE CONSIDERED THE SAME.
- III. GUARANTEE, WARRANTY
1. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN THE PROPOSAL A ONE YEAR GUARANTEE, WARRANTY ON ALL EQUIPMENT AND MATERIAL HE INSTALLS OR REFURBISHES UNLESS A LONGER WARRANTY IS INDICATED FOR EQUIPMENT (IE: COMPRESSOR TO HAVE A MINIMUM FIVE (5) YEAR WARRANTY)..
- IV. DUCTWORK
1. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE AIR BALANCING OF ALL NEW SYSTEMS. TESTING AND BALANCING SHALL BE PERFORMED BY AN INDEPENDENT CONTRACTOR AT MECHANICAL CONTRACTOR'S EXPENSE. ALL NEW SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE LATEST STANDARD OF THE "ASSOCIATED AIR BALANCE COUNCIL" (AABC) OR "THE NATIONAL ENVIRONMENTAL BALANCING BUREAU" (NEBB), NO SUBSTITUTIONS WILL BE ACCEPTABLE. A COMPLETE CERTIFIED REPORT INDICATING AIR FLOW RATES, PRESSURE DROPS, STATIC PRESSURES, BRAKE HORSEPOWER, AMP DRAW, EXHAUST CFM, ETC., SHALL BE DELIVERED TO THE ARCHITECT, THE TENANT AND THE MALL MANAGEMENT OFFICE. ACTUAL AIR BALANCING SHALL BE PERFORMED WITH A 98% ACCURATE AIR VELOCITY METER. FOR VAV SYSTEMS THE REPORT MUST INCLUDE VAV BOX AIRFLOW SENSOR DIFFERENTIAL PRESSURE READING AT MAXIMUM AND MINIMUM COOLING AND HEATING.
2. CHANGE IN DIRECTION ELBOWS SHALL HAVE AN INSIDE RADIUS OF NOT LESS THAN THE WIDTH OF THE DUCT.
3. ALL DUCTWORK SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW VELOCITY AND "HVAC DUCT CONSTRUCTION STANDARDS MANUAL", LATEST EDITION AND ASHRAE USING PRIME SHEETS OF GALVANIZED STEEL. ALL SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE WALLED VANES ON MAXIMUM 3" CENTERS. PROVIDE SEAL CLASS "A" ON ALL TRAVERSE JOINTS UNLESS SUPERSEDED BY MORE STRINGENT LOCAL CODES. ALL DUCT CONNECTIONS ARE TO BE RIGID AND LEAK FREE ASSEMBLIES AS MANUFACTURED BY DUCTMATE INDUSTRIES OR APPROVED EQUIVALENT.
4. ALL BRANCHES AND TAKEOFFS SHALL BE EQUIPPED WITH MANUAL VOLUME CONTROLLING DEVICES HAVING AN INDICATING AND LOCKING DEVICE.
5. SUPPORT HORIZONTAL DUCTS WITH HANGERS SECURED TO BAR JOISTS OR STRUCTURAL STEEL ABOVE, AT INTERVALS NOT TO EXCEED 5'-0". DUCTWORK SHALL NOT BE SUPPORTED FROM ROOF DECKING, AND/OR BRIDGING, BUT SHALL BE SUSPENDED FROM THE TOP CHORD OF BAR JOISTS. DUCTWORK SHALL CLEAR ALL SPRINKLERS AND OTHER OBSTACLES AND SHALL BE HUNG AS HIGH AS POSSIBLE IN WORK AND STORAGE AREAS.
6. ALL REGISTERS AND DIFFUSERS SHALL BE AS SCHEDULED ON DWG M200, FLUSH TO THE CEILING, WALLS, ETC., AND SHALL HAVE MANUFACTURERS BAKED ENAMEL FINISH (COLOR TO MATCH CEILING TILES OR CEILING). REGISTERS MOUNTED ON EXPOSED DUCTWORK SHALL HAVE MANUFACTURER'S BAKED ENAMEL OFF-WHITE FINISH. DIFFUSERS SHALL BE OF THE ADJUSTABLE PATTERN TYPE WITH VOLUME CONTROL DAMPERS AND FLOW EQUALIZING. ANY PART OF DIFFUSER HOUSING LOCATED IN CONCEALED CEILING MUST BE INSULATED, SEE DETAIL.
7. FIBERGLASS DUCTWORK WILL NOT BE ALLOWED.
8. MECHANICAL CONTRACTOR SHALL REFER TO DUCTWORK SCHEDULE ON DRAWING M200 FOR DUCTWORK TYPE, HANGER SYSTEM, CONNECTIONS, ETC. NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCY WITH THE DRAWINGS.
9. ALL DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE TO MAINTAIN ARCHITECTURAL CEILING HEIGHT REQUIREMENTS.
10. PROVIDE SPLITTER OR VOLUME DAMPERS ON ALL NEW SUPPLY AIR DUCT SPLITS AND TAPS AND AIR EXTRACTORS ON ALL SUPPLY AIR REGISTERS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL CEILING DIFFUSERS AND REGISTERS.
12. WHEN NEW DUCTWORK CONFLICTS WITH EXISTING DUCTWORK, PIPING, ETC., NEW DUCTWORK SHALL BE SET UP OR DOWN AS REQUIRED WITH ANTHROPOLOGIE PROJECT MANAGER'S PERMISSION.

V. AUTOMATIC TEMPERATURE CONTROL

GENERAL

1. INSTRUCTION AND ADJUSTMENT UPON COMPLETION OF THE JOB, THE CONTRACTOR SHALL COMPLETELY ADJUST AND MAKE READY FOR USE ALL THERMOSTATS, CONTROL VALVES, DAMPER MOTORS, AND RELAYS PROVIDED UNDER THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE A COMPLETE INSTRUCTION MANUAL COVERING THE FUNCTION AND OPERATION OF ALL CONTROL COMPONENTS ON THE JOB. THE MANUAL SHALL BE FURNISHED TO THE OWNER'S OPERATING PERSONNEL, AND A COMPETENT TECHNICIAN SHALL BE PROVIDED FOR INSTRUCTION PURPOSES. THE CONTRACTOR SHALL FURNISH A FRAMED SCHEMATIC CONTROL DIAGRAM SEQUENCE OF OPERATION AND WIRING DIAGRAM IN A LAMINATED COVER.
2. SERVICE AND GUARANTEE CONTROLS SHALL BE ADJUSTED, REPAIRED OR REPLACED FREE OF CHARGE FOR A PERIOD OF ONE (1) YEAR, UNDER NORMAL USE AND SERVICE.
3. THERMOSTATS
A. MOUNT SENSORS 5'-0" ABOVE FINISHED FLOORS OR AS NOTED ON PLANS. TURN OVER OPERATING INSTRUCTIONS TO TENANT REPRESENTATIVE.
4. ALL LOW VOLTAGE WIRING FOR THERMOSTATS/SENSORS SHOULD BE NO LESS THAN 18 GAUGE.

VI. SPECIFIC HVAC SPECIFICATIONS FOR:

SEE HVAC DRAWINGS SPECIFICATIONS FOR:

1. WORK FURNISHED AND/OR INSTALLED BY LANDLORD.
2. INSULATION AND/OR ACOUSTIC LINING
1) DUCTWORK
3. AUTOMATIC TEMPERATURE CONTROLS
1) DESCRIPTION OF OPERATIONS
2) OPERATING INSTRUCTIONS
4. EQUIPMENT
1) EXHAUST FANS.
2) MISCELLANEOUS HVAC EQUIPMENT ACCESSORIES.

VII. INSULATION

1. ALL UNEXPOSED SUPPLY AIR DUCTWORK WITHIN BUILDING SHALL HAVE 2", 1.5 POUND DENSITY FIBERGLASS DUCT WRAP INSULATION WITH FOIL FACE VAPOR BARRIER (MINIMUM R-6 INSTALLED), ADHERED WITH WHITE MASTIC CEMENT AND FOIL TAPE. ALL EXPOSED DUCT THAT REQUIRES INSULATION (SUPPLY & RETURN AIR DUCTWORK) SHALL BE INTERNALLY LINED WITH 1" THICK DUCT LINING.
2. LEADING EDGES OF DUCT INSULATION SHALL BE OVERLAPPED BY ADJOINING INSULATION FOR 6" MINIMUM AND THEN SEALED WITH FOIL VAPOR BARRIER ADHESIVE TAPE AND COATED WITH WHITE MASTIC CEMENT SO THAT NO FIBERGLASS INSULATION IS VISIBLE. MECHANICAL CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL REQUIREMENTS, RECOMMENDATIONS, PROCEDURES, ETC.
3. ALL INSULATION ON EXISTING PIPING OR DUCTS THAT IS WETTED, DAMAGED, DISTURBED OR REMOVED SHALL BE REPLACED.
4. MAXIMUM FLAME SPREAD SHALL BE 25 AND MAXIMUM SMOKE DEVELOPED CRITERIA SHALL BE 50 OR LESS TO MEET MORE STRINGENT LOCAL CODE CRITERIA.
5. INTERNALLY LINED DUCTWORK TO BE INSULATED WITH 1" THICK, 3 PCF DENSITY, NEOPRENE COATED, LONG TEXTILE FIBER TYPE DUCT LINER, WITH COATING ON THE AIR STREAM SIDE CONFORMING TO NFPA 90A. DUCT LINER ADHESIVE SHALL BE AS RECOMMENDED BY DUCT LINER MANUFACTURER, AND SHALL COMPLY WITH ASTM C-916. DUCT LINER FASTENERS SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION. THERMAL CONDUCTIVITY SHALL BE EQUAL TO OR LESS THAN 0.26 AT 75°F. DUCT DIMENSIONS INDICATED ARE NET INSIDE DIMENSIONS REQUIRED FOR AIRFLOW. INCREASE DUCT SIZE TO ALLOW FOR INSULATION THICKNESS. DUCT LINER IS PERMITTED ONLY IN URBAN OUTFITTERS STORES, FOR ACOUSTICAL PURPOSES. THE LENGTH OF DUCT LINER SHALL BE THE FIRST 15'-0" OF DUCTWORK FROM THE UNIT DISCHARGE, AND/OR THE FIRST TWO (2) 90° ELLS, WHICHEVER CONDITION IS MET FIRST.

VIII. FLEXIBLE CONNECTIONS

FINAL CONNECTIONS TO EXHAUST FAN(S) SHALL BE WITH A HEAVY AIRTIGHT ACID RESISTANT FIRE RETARDANT FIBER GLASSED NEOPRENE CONNECTOR, A MINIMUM OF SIX (6) INCHES IN LENGTH. THE CONNECTOR SHALL BE FASTENED TO EQUIPMENT AND DUCT WITH TWO FLEXIBLE REMOVABLE BRASS STRAPS, OR ALTERNATE APPROVED METHOD.

IX. FLEXIBLE DUCT

FLEXIBLE DUCT FOR CONNECTIONS SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF AN INNER SLEEVE, INSULATION AND AN OUTER FOIL (ALUMINIZED) MOISTURE BARRIER. THE INNER SLEEVE SHALL BE CONSTRUCTED OF A CONTINUOUS VINYL COATED SPRING STEEL WIRE HELIX FUSED TO A CONTINUOUS LAYER OF FIBERGLASS IMPREGNATED AND COATED VINYL. A 1-1/4" THICK LAYER OF INSULATING BLANKET OF FIBERGLASS WOOL SHALL ENCASE THE INNER SLEEVE AND BE SHEATHED WITH AN OUTER MOISTURE BARRIER OF A BIDIRECTIONAL REINFORCED METALIZED VAPOR BARRIER. THE FLEXIBLE DUCT SHALL BE RATED FOR A MAXIMUM WORKING VELOCITY OF 6000 FPM AND SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES UNDER THEIR UL-181 STANDARDS AS A CLASS 1 DUCT AND SHALL COMPLY WITH NFPA STANDARD - 90A. THE FLEXIBLE DUCT SHALL BE THERMAFLEX M-KC OR APPROVED EQUIVALENT. FLEXIBLE DUCT SHALL ROUTE FROM SHEET METAL DUCTWORK TO CEILING DIFFUSERS ONLY. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0" MAXIMUM. THERE SHALL BE NO EXPOSED FLEXIBLE DUCT. FLEXIBLE DUCT BENDS MUST NOT BE GREATER THAN 45° OVER A 3 FOOT SPAN. KINKS OR BUNCHING OF FLEXIBLE DUCT IS PROHIBITED.

X. INDOOR AIR QUALITY

1. NO ANALYSIS HAS BEEN MADE WITH REGARD TO SOURCES OR POTENTIAL SOURCES OF INDOOR OR OUTDOOR AIR CONTAMINANTS OR LEVELS OF CONTAMINATION.
2. IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTOR TO INFORM THE TENANT'S REPRESENTATIVE, LANDLORD AND TENANT'S ARCHITECT IF ANY SOURCE OR POTENTIAL SOURCE OF INDOOR AIR CONTAMINATION IS IDENTIFIED.
3. PRIOR TO ENCLOSING SPACES SUCH AS PLUMBING CHASES, AIR SHAFTS AND RETURN AIR PLENUMS CLEAN ALL AREAS THOROUGHLY. THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATING OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF CONTAMINATION FROM TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS, EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
4. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES SHUT OFF THE HVAC SYSTEM, BLOCK OFF ALL AIR GRILLS, DIFFUSERS, AND OTHER OPENINGS OUTSIDE THE IMMEDIATE CONSTRUCTION AREA. OPENINGS TO ADJACENT TENANT SPACES SHALL BE COVERED WITH FILTER MEDIA TO PREVENT DUST AND OTHER AIRBORNE CONTAMINANTS FROM PASSING TO ADJOINING SPACES.
5. CONTRACTOR TO INSTALL TEMPORARY EXHAUST SYSTEM TO VENTILATE CONSTRUCTION SITE AND KEEP SITE UNDER SLIGHT NEGATIVE PRESSURE DURING ALL HOURS OF CONSTRUCTION, EVEN IF AFTER NORMAL BUSINESS HOURS.
6. CONTRACTOR TO INSTALL TEMPORARY BARRIERS TO PROTECT ADJACENT SPACES FROM DUST, PARTICULATES, VAPORS AND NOISE. WHERE TEMPORARY BARRIERS ARE INSTALLED ALWAYS MAINTAIN FIRE EXITS AND EXITWAYS.

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ANTHROPOLOGIE

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INLET BEACH, FL 32461

DRAWN BY:

POD

ISSUE / DATE:

C-2 : LANDLORD COORDINATION-DRAFT

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SPECIFICATIONS

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