

DEMOLITION GENERAL NOTES

- A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING MECHANICAL SYSTEMS AND PROVIDE ALL DEMOLITION REQUIRED FOR THE PROJECT.
- B. DEMOLITION WORK INCLUDES THE REMOVAL OF ALL UNBID HANGERS, CONTROL PIPING, DUCTWORK, PIPING, ETC. ALL PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED WATER-TIGHT. FLOORS, WALLS AND CEILING SHALL BE PATCHED TO MATCH EXISTING IN EXISTING AREA TO REMAIN OR PATCHED AND PREPARED FOR NEW FINISH IN AREA TO BE REMODELED.
- C. THE OWNER SHALL DESIGNATE ANY ITEMS TO BE SALVAGED BY CONTRACTOR PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL PROTECT AND TURN OVER TO OWNER ALL SALVAGED ITEMS AT AN OWNER DESIGNATED LOCATION ON THE BUILDING SITE. ALL OTHER DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED.
- D. PATCH ALL HOLES IN WALLS, CEILING AND FLOORS THAT RESULT FROM THE DEMOLITION WORK TO MATCH THE EXISTING SURFACE FINISH.

- E. THIS CONTRACTOR SHALL COORDINATE TIMES TO WORK IN SPECIFIC AREAS OF THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. IF AFTER HOURS WORK IS REQUIRED ALL PREMIUM TIME SHALL BE INCLUDED IN BID.
- F. THIS CONTRACTOR IS TO REPAIR ANY OPENINGS IN FIRE RATED CONSTRUCTION CAUSED BY THE DEMOLITION WORK TO MATCH EXISTING CONSTRUCTION AND MAINTAIN FIRE RATING.
- G. REMOVE ALL EXISTING MECHANICAL EQUIPMENT, INCLUDING GAS AND POWER SERVICES AND PATCH ROOF UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT SUPPORT RAILS, WHICH ARE FLASHED INTO THE EXISTING ROOFING, CAN BE RETAINED PROVIDED THAT THEY DO NOT INTERFERE WITH NEW RTU LOCATIONS. ALL EXISTING EQUIPMENT SUPPORT RAILS AND ROOF CURBS ARE TO BE REMOVED IF THEY INTERFERE WITH NEW RTU LOCATIONS. RECLAIM REFRIGERANT IN ACCORDANCE WITH EPA REQUIREMENTS.

MECHANICAL GENERAL NOTES

- A. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND ELECTRICAL TRADES. SPRINKLER CONTRACTOR SHALL OBTAIN SHEET METAL SHOP DRAWINGS AND DESIGN SPRINKLER SYSTEM INCLUDING MODIFICATION OF EXISTING BRANCH PIPING AND HANGERS TO AVOID DUCTWORK CONFLICTS.
- B. MECHANICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.
- C. ROOF CURBS SHALL BE COMPATIBLE WITH ROOFING SYSTEM AND SHALL MATCH ROOF SLOPE IN ORDER THAT EQUIPMENT SITS DEAD LEVEL.
- D. PATCHING OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY THIS CONTRACTOR.
- E. CONTRACTOR SHALL BE FAMILIAR WITH OWNER'S STANDARDS, RULES AND REGULATIONS. ALL OWNER'S CRITERIA SHALL BE COMPLIED WITH AND INCLUDED IN THIS BID.
- F. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL EQUIPMENT.

- G. ALL CEILING DIFFUSERS SHALL HAVE MANUAL VOLUME DAMPERS IN CORRESPONDING SUPPLY AIR RUNOUTS.
- H. COORDINATE LOCATION OF ENERGY MANAGEMENT SYSTEM EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
- I. MECHANICAL CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH SPECIFIC A/C UNIT NUMBER TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH DISCONNECT IN A LOCATION VISIBLE FROM THE ROOF HATCH.
- J. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO UNDERSIDE OF ROOF STRUCTURE OR AS HIGH AS POSSIBLE TO AVOID OBSTRUCTIONS.
- K. HVAC DUCTWORK SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH ASHRAE AND LATEST SHACMA STANDARDS. PROVIDE TURNING VANES IN ALL ELBOWS.
- L. ALL SUPPLY RETURN AND EXHAUST BRANCH DUCTWORK SHALL HAVE MANUAL VOLUME DAMPERS IN CORRESPONDING RUNOUTS NEAR CONNECTION TO MAIN DUCT.
- M. NO THERMOSTATS ARE TO BE LOCATED OVER HEAT PRODUCING EQUIPMENT.

- N. SPRINKLER CONTRACTOR SHALL MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW DUCTWORK, LIGHTING AND PARTITION LAYOUTS. REFER TO SPECIFICATIONS FOR DETAILS.
- O. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF THE WORK.
- P. CONTRACTOR SHALL PAINT INTERIOR OF ALL DUCTS VISIBLE FROM FLOOR FLAT BLACK.
- Q. CONTRACTOR SHALL OBTAIN, BECOME FAMILIAR WITH AND COMPLY TO ROSS PROTOTYPE CRITERIA DOCUMENTS AND DRAWINGS.
- R. CONTRACTOR SHALL COMPLETE AIR BALANCE OF SYSTEM AND LOCK AND SCREEN SHEET METAL BALANCING DAMPERS IN POSITION PRIOR TO INSTALLATION OF HARD CEILING.
- S. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- T. DUCTWORK IS TO BE SEALED PER ROSS DESIGN CRITERIA 6.E.2.

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

McHenry & Associates Incorporated
Mc & A
 Consulting Engineers est. 1960
 25001 Emery Road, Suite #200
 Warrensville Heights, Ohio 44128
 Phone: 216-292-4696
 Fax: 216-292-5874
 Email: mail@mcHenryassociates.com

mg
 mgarchitecture.com
 CONSULTING ARCHITECTS
 100 E STROOP ROAD
 KETTERING, OHIO 45429

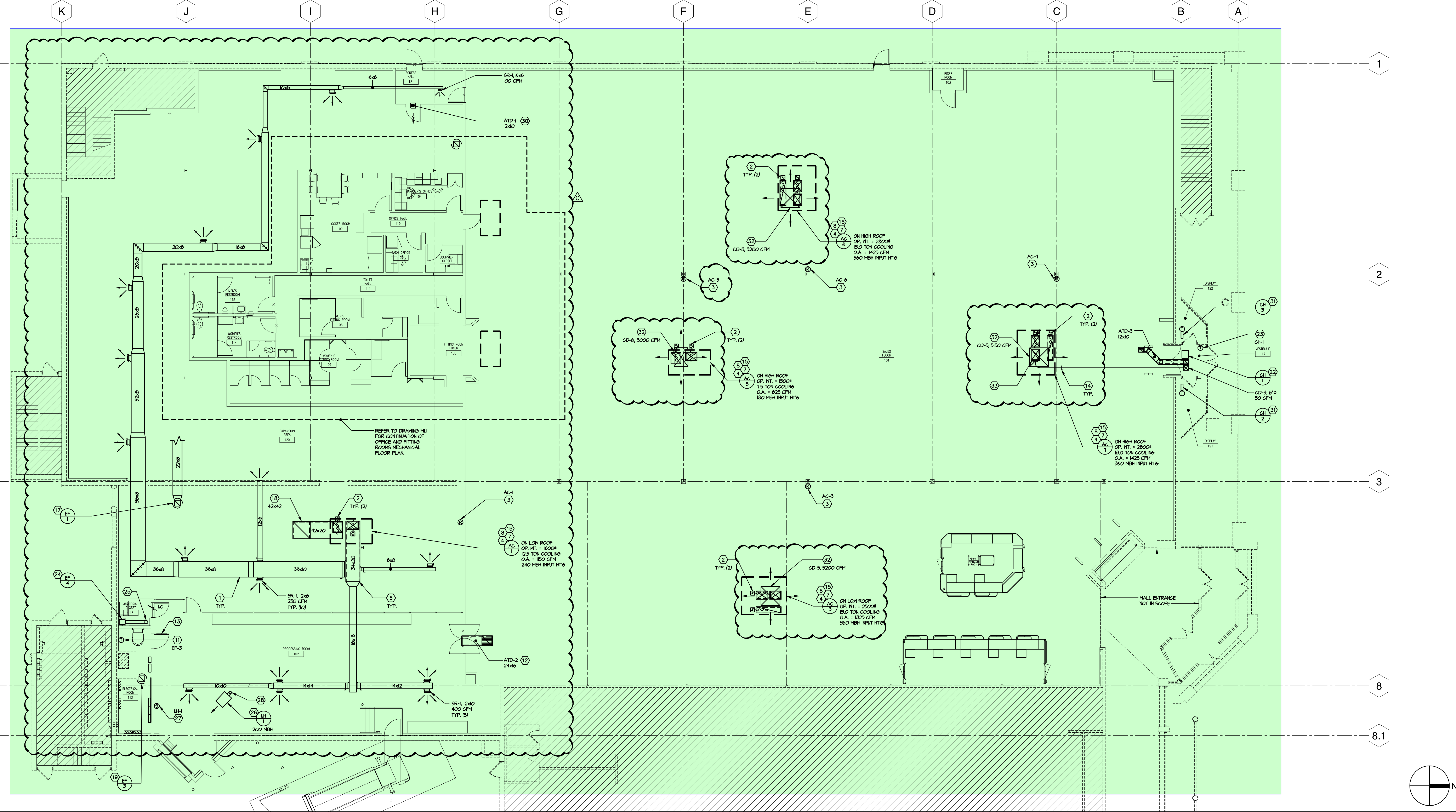
MECHANICAL CODED NOTES:

- 1 MOUNT DUCTWORK AS HIGH AS POSSIBLE. DIFFUSERS TO BE INSTALLED ON SIDE OF DUCT, DEFLECTED DOWNWARD. COORDINATE ROUTING OF SUPPLY DUCTWORK WITH ELECTRICAL CONTRACTOR.
- 2 SMOKE DETECTORS LOCATED IN SUPPLY AND RETURN AIR SECTIONS OF UNIT TO SHUT DOWN UNIT UNDER ALARM. DETECTORS SHALL BE FACTORY INSTALLED AND FURNISHED WITH REMOTE TEST SWITCH AND ALARM SHIPPED LOOSE. MECHANICAL CONTRACTOR SHALL INSTALL AND WIRE REMOTE TEST STATION. REFER TO DETAIL ON DRAWING M2. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
- 3 MOUNT TOP OF SMOKE DETECTOR REMOTE KEY STATION AND TEST STATIONS AT 48" A.F.F. ON SALES FLOOR AND 84" A.F.F. IN ALL OTHER AREAS. REFER TO DETAIL ON DRAWING M2. INDICATE DETECTOR SERVING EACH DEVICE. COORDINATE EXACT LOCATIONS WITH FIRE MARSHAL PRIOR TO ROUGH-IN. ALL WIRING SHALL BE IN CONDUIT PER N.E.C. DUCT SMOKE DETECTOR ACTIVATION WILL RESULT IN THE IMMEDIATE LOSS OF POWER TO THE AIR MOVING EQUIPMENT.
- 4 CONFIRM EXACT LOCATION OF UNIT ON ROOF WITH OWNER AND STRUCTURAL ENGINEER AND PROVIDE NECESSARY SHEET METAL OFFSETS TO MATCH APPROVED UNIT LOCATION. SECURE SEISMIC ROOF CURB TO ROOF STRUCTURE AND AIR CONDITIONING UNIT TO SEISMIC ROOF CURB. CUT NEW OPENINGS THROUGH ROOF AND INSTALL SUPPLEMENTAL BRACING AS REQUIRED TO FRAME OPENINGS AS DIRECTED BY STRUCTURAL ENGINEER. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET TRANSITION AT SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE.
- 5 DASHED LINE ON SUPPLY AND RETURN DUCTWORK INDICATES 1" ACOUSTIC LINING. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING - TYPICAL.
- 6 NOT USED.
- 7 EMS SYSTEM DRAWINGS BY CAG BUILDING AUTOMATION SHALL DICTATE FINAL LOCATIONS OF ALL TEMPERATURE SENSORS. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
- 8 EXTEND SUPPLY AND RETURN DUCTS FULL SIZE FROM UNIT AND TRANSITION TO SIZES INDICATED ON PLANS.
- 9 NOT USED.
- 10 NOT USED.
- 11 MOUNT TOP OF THERMOSTAT FOR EF-3 AT 48" A.F.F. IN A LOCKING, VENTILATED, AND METAL ENCLOSURE. THERMOSTAT SHALL BE WIRED BY ELECTRICAL CONTRACTOR. COORDINATE THERMOSTAT SET POINT WITH ROSS CONSTRUCTION MANAGER. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
- 12 MOUNT BOTTOM OF GRILLE OR REGISTER ON MALL AS HIGH AS POSSIBLE NO LOWER THAN 10'-0" A.F.F. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ROSS CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 13 M.C. SHALL PROVIDE 24"x24" TITUS MODEL T-100L WHITE STEEL LOUVERED DOOR GRILLE WITH AUXILIARY FRAME IN DOOR. MOUNT BOTTOM OF DOOR GRILLE AT 14" A.F.F. COORDINATE WITH DOOR SHOP DRAWINGS.

- 14 TAG ALL MANUAL VOLUME DAMPERS FOR FUTURE IDENTIFICATION. TAG SHALL IDENTIFY SPACE SERVED - TYPICAL.
- 15 MECHANICAL CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH SPECIFIC A/C UNIT NUMBER TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH DISCONNECT IN A LOCATION VISIBLE FROM THE ROOF HATCH.
- 16 NOT USED.
- 17 EXTEND 14"x14" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
- 18 INSTALL RETURN AIR DUCT AS HIGH AS POSSIBLE A.F.F. PROVIDE TOP DUCT OPENING (SIZE INDICATED ON PLAN) WITH 1" GALVANIZED WIRE MESH SCREEN OVER OPENING. MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN BOTTOM OF ROOF DECK AND TOP OF RETURN AIR DUCT.
- 19 EXTEND 14"x14" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF AND PROVIDE 1/2" ALUMINUM MESH ON OPEN END OF DUCT.
- 20 NOT USED.
- 21 NOT USED.
- 22 SUPPORT CABINET HEATER FROM ROOF STRUCTURE ABOVE USING THREADED ROD, PER MANUFACTURER'S REQUIREMENTS. CABINET HEATER SHALL BE FULLY RECESSED AND FLUSH MOUNTED WITH ALL REQUIRED IRON.
- 23 MOUNT TOP OF THERMOSTAT FOR GH-1 AT 48" A.F.F. IN A LOCKING, VENTILATED CLEAR PLASTIC ENCLOSURE. COORDINATE EXACT LOCATION OF THERMOSTAT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. THERMOSTAT SHALL BE WIRED BY ELECTRICAL CONTRACTOR. COORDINATE THERMOSTAT SET POINT WITH ROSS CONSTRUCTION MANAGER. ALL WIRING SHALL BE IN CONDUIT PER N.E.C.
- 24 SUPPORT EXHAUST FAN FROM STRUCTURE WITH VIBRATION ISOLATION HANGERS AND SUPPORT RODS. EXTEND EXHAUST AIR DUCT FROM EXHAUST FAN AS INDICATED ON PLANS.
- 25 EXTEND 8" DIA. EXHAUST UP THROUGH ROOF WITH TALL CONE FLASHING, WEATHER SKIRT, AND BREEDERT VENT CAP. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- 26 MOUNT BOTTOM OF UNIT HEATER AT HEIGHT AS DIRECTED BY ROSS CONSTRUCTION MANAGER (AS HIGH AS POSSIBLE WHILE STILL BELOW STRUCTURE SO AS NOT TO OBSTRUCT AIR FLOW). SUPPORT UNIT HEATER FROM ROOF STRUCTURE ABOVE USING THREADED ROD, PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF UNIT HEATER WITH RACK STORAGE LAYOUT PRIOR TO INSTALLATION SO AS NOT TO INTERFERE WITH STORAGE RACKS. COORDINATE LOCATION OF UNIT HEATER WITH OVERHEAD DOOR SO THAT HEATER AIR FLOW IS DIRECTED AT MALL OPENING FOR OVERHEAD DOOR. PROVIDE DIRT LEE, GAS COCK, AND UNION AT UNIT GAS CONNECTION.
- 27 UNIT HEATER SHALL BE CONTROLLED WITH TS-1A EMS SENSOR PROVIDED BY CAG BUILDING AUTOMATION. REFER TO EMS PLANS FOR EXACT LOCATION AND WIRING.
- 28 EXTEND FLUE FROM UNIT HEATER CONNECTION THROUGH ROOF WITH STORM COLLAR, DRAIN BAND, AND BREEDERT VENT CAP. INSTALL 2" CLEARANCE TRIMBLE AT ROOF PENETRATION. FLASH AND COUNTERFLASH STORM COLLAR TO ROOF HEATHER TIGHT. TOP OF FLUE TO BE 3'-0" MINIMUM ABOVE ROOF AND 2'-0" HIGHER THAN ANYTHING WITHIN 10'-0".
- 29 NOT USED.
- 30 MOUNT BOTTOM OF GRILLE OR REGISTER ON MALL AS HIGH AS POSSIBLE NO LOWER THAN 7'-0" A.F.F. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ROSS CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 31 MOUNT MALL HEATER ON BELOW DISPLAY WINDOW SO THAT IT CANNOT BE SEEN FROM EXTERIOR.
- 32 PROVIDE LENOX FLUSH MOUNT CONCENTRIC DIFFUSER. SEE MODEL NUMBER ON DRAWING M-2. EXTEND SUPPLY AND RETURN DUCTWORK AS INDICATED AND PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE INSTALLATION. CONCENTRIC DIFFUSERS SHALL BE PURCHASED THROUGH LENOX NATIONAL ACCOUNT - NO SUBSTITUTIONS WILL BE PERMITTED. CONCENTRIC DIFFUSERS TO BE INSTALLED BELOW ORDER. BALANCE UNIT TO AIRFLOW LISTED ON PLANS. SEE DETAIL ON DRAWING M-2 FOR FURTHER INFORMATION.
- 33 CONNECT SUPPLY AIR BRANCH DUCT MAIN BETWEEN ROOFTOP UNIT AND CONCENTRIC DIFFUSER. PROVIDE MVD IN SUPPLY DUCT MAIN AFTER BRANCH DUCT TAKEOFF.

MECHANICAL LEGEND

- INDICATES CODED NOTE
- △ A.F.F. ABOVE FINISHED FLOOR
- EXHAUST AIR
- OUTSIDE AIR
- SUPPLY AIR
- NOT IN CONTRACT
- MANUAL VOLUME DAMPER
- THERMOSTAT
- DUCT SMOKE DETECTOR REMOTE KEY TEST STATION WITH INDICATOR AND ALARM
- DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UNDER ALARM. DETECTOR SHALL BE LOCATED, INSTALLED AND WIRED AS INDICATED ON FLOOR PLAN AND SPECIFICATIONS. ALL WIRING TO BE IN CONDUIT PER N.E.C.
- UNDERCUT DOOR, REFER TO ARCHITECTURAL DRAWINGS
- LOWER DOOR REFER TO ARCHITECTURAL DRAWINGS



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

ROSS
 DRESS FOR LESS

STORE #2524
 KETTERING, OH
 100 E STROOP ROAD
 KETTERING, OHIO 45429

REVISIONS

BID/PERMIT	11-16-2022
ADDENDUM C	04-17-2023

SCALE AS NOTED

PROJECT NO. 22.122.10

SHEET NUMBER
M1.0

APR 17, 2023 - 08:08:07 DWG Name: C:\Users\3023\OneDrive\Documents\Projects\ROSS\2524\SS2524_Mechanical.dwg Updated By: mchmtrk

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

McHenry & Associates Incorporated
Mc & A
 Consulting Engineers est. 1960
 25001 Emery Road, Suite #200
 Warrensville Heights, Ohio 44128
 Phone: 216-292-4696
 Fax: 216-292-5874
 Email: mail@mcHenryassociates.com



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- A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING MECHANICAL SYSTEMS AND PROVIDE ALL DEMOLITION REQUIRED FOR THE PROJECT.
- B. DEMOLITION WORK INCLUDES THE REMOVAL OF ALL UNUSED HANGERS, CONTROL PIPING, DUCTWORK, PIPING, ETC. ALL PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED WATER-TIGHT. FLOORS, WALLS AND CEILINGS SHALL BE PATCHED TO MATCH EXISTING IN EXISTING AREA TO REMAIN, OR PATCHED AND PREPARED FOR NEW FINISH IN AREA TO BE REMOVED.
- C. THE OWNER SHALL DESIGNATE ANY ITEMS TO BE SALVAGED BY CONTRACTOR PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL PROTECT AND TURN OVER TO OWNER ALL SALVAGED ITEMS AT AN OWNER DESIGNATED LOCATION ON THE BUILDING SITE. ALL OTHER DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED.
- D. PATCH ALL HOLES IN WALLS, CEILINGS AND FLOORS THAT RESULT FROM THE DEMOLITION WORK TO MATCH THE EXISTING SURFACE FINISH.
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- G. REMOVE ALL EXISTING MECHANICAL EQUIPMENT, INCLUDING GAS AND POWER SERVICES AND PATCH ROOF UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT SUPPORT KAILS, WHICH ARE FLASHED INTO THE EXISTING ROOFING, CAN BE RETAINED PROVIDED THAT THEY DO NOT INTERFERE WITH NEW RITE LOCATIONS. ALL EXISTING EQUIPMENT SUPPORT RAILS AND ROOF CURBS ARE TO BE REMOVED IF THEY INTERFERE WITH NEW RITE LOCATIONS. RECLAIM REFRIGERANT IN ACCORDANCE WITH EPA REQUIREMENTS.

MECHANICAL GENERAL NOTES

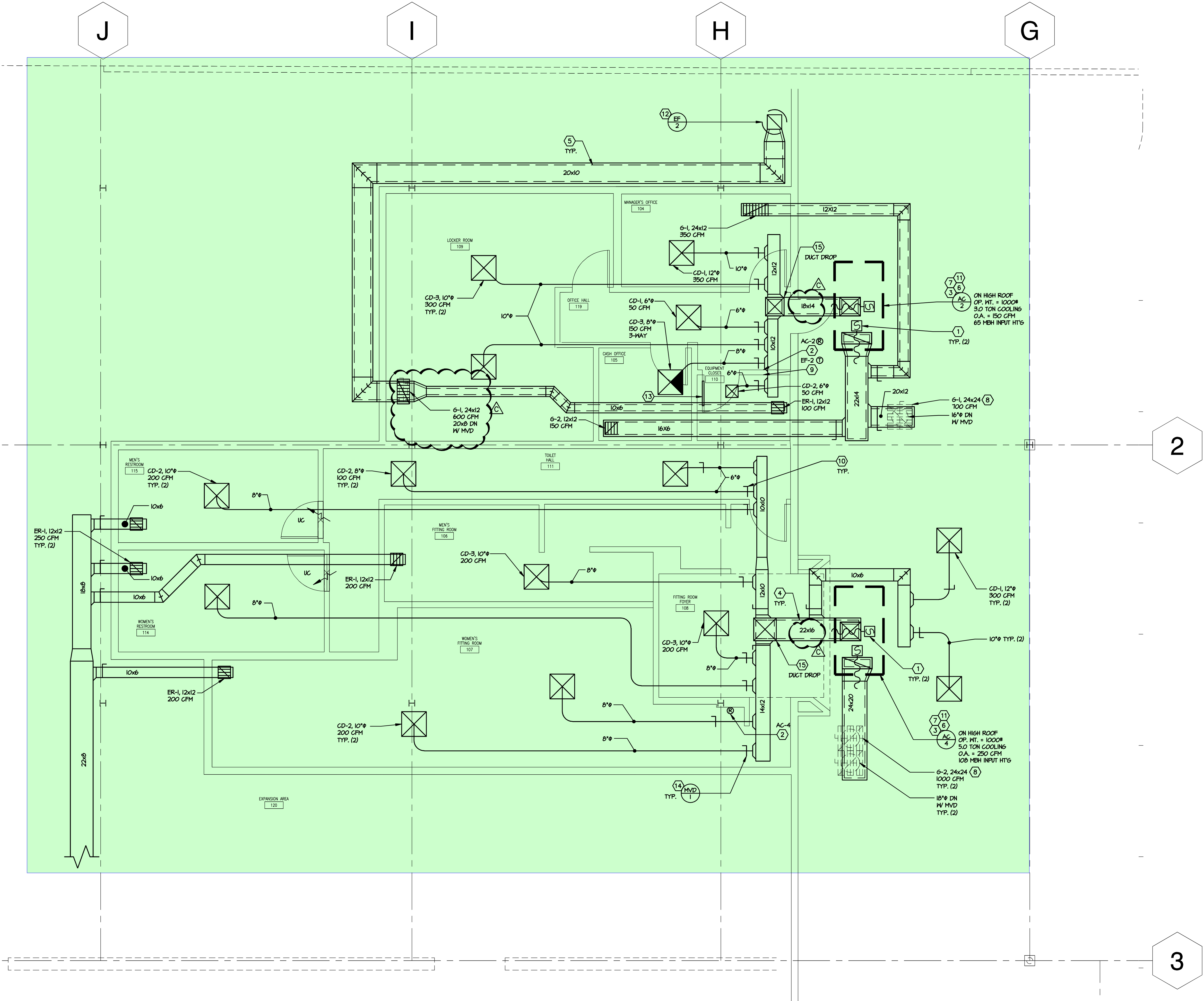
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- C. ROOF CURBS SHALL BE COORDINATE WITH ROOFING SYSTEM AND SHALL MATCH ROOF SLOPE IN ORDER THAT EQUIPMENT STDS BEAD LEVEL.
- D. PATCHINGS OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY THIS CONTRACTOR.
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- I. MECHANICAL CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH SPECIFIC AVG UNIT NUMBER TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH DISCONNECT IN A LOCATION VISIBLE FROM THE ROOF HATCH.
- J. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO UNDERSIDE OF ROOF STRUCTURE OR AS HIGH AS POSSIBLE TO AVOID OBSTRUCTIONS.
- K. HVAC DUCTWORK SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH ASHRAE AND LATEST SMACNA STANDARDS. PROVIDE TURNING VANES IN ALL ELBOWS.
- L. ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTWORK SHALL HAVE MANUAL VOLUME DAMPERS IN CORRESPONDING RIGS NEAR CONNECTION TO MAIN DUCT.
- M. NO THERMOSTATS ARE TO BE LOCATED OVER HEAT PRODUCING EQUIPMENT.
- N. SPRINKLER CONTRACTOR SHALL MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW DUCTWORK, LIGHTING AND PARTITION LAYOUTS. REFER TO SPECIFICATIONS FOR DETAILS.
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- R. CONTRACTOR SHALL COMPLETE AIR BALANCE OF SYSTEM AND LOCK AND SCREW SHEET METAL BALANCING DAMPERS IN POSITION PRIOR TO INSTALLATION OF HARD CEILINGS.
- S. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- T. DUCTWORK IS TO BE SEALED PER ROSS DESIGN CRITERIA 6.E.2.

MECHANICAL LEGEND

- INDICATES CODED NOTE
- A.F.F. ABOVE FINISHED FLOOR
- E.A. EXHAUST AIR
- O.A. OUTSIDE AIR
- R.A. RETURN AIR
- S.A. SUPPLY AIR
- NC NOT IN CONTRACT
- MVD MANUAL VOLUME DAMPER
- ⊖ THERMOSTAT
- ⊙ DUCT SMOKE DETECTOR REMOTE KEY TEST STATION WITH INDICATOR AND ALARM
- ⊖ DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UNDER ALARM. DETECTOR SHALL BE LOCATED, INSTALLED AND WIRING AS INDICATED ON FLOOR PLAN AND SPECIFICATIONS. ALL WIRING TO BE IN CONDUIT PER NEC.
- ⊖ UNDERCUT DOOR, REFER TO ARCHITECTURAL DRAWINGS
- ⊖ LOWER DOOR, REFER TO ARCHITECTURAL DRAWINGS

MECHANICAL CODED NOTES:

- 1 SMOKE DETECTORS LOCATED IN SUPPLY AND RETURN AIR SECTIONS OF UNIT TO SHUT DOWN UNIT UNDER ALARM. DETECTORS SHALL BE FACTORY INSTALLED AND FURNISHED WITH REMOTE TEST SWITCH AND ALARM SHIPPED LOOSE. MECHANICAL CONTRACTOR SHALL INSTALL AND WIRE REMOTE TEST STATION. REFER TO DETAIL ON DRAWING H2. ALL WIRING SHALL BE IN CONDUIT PER NEC.
- 2 MOUNT TOP OF SMOKE DETECTOR REMOTE KEY TEST STATIONS AT 48" A.F.F. ON SALES FLOOR AND 84" A.F.F. IN ALL OTHER AREAS. REFER TO DETAIL ON DRAWING H2. INDICATE DETECTOR SERVING EACH DEVICE. COORDINATE EXACT LOCATIONS WITH FIRE MARSHAL PRIOR TO ROUGH-IN. ALL WIRING SHALL BE IN CONDUIT PER NEC. DUCT SMOKE DETECTOR ACTIVATION WILL RESULT IN THE IMMEDIATE LOSS OF POWER TO THE AIR MOVING EQUIPMENT.
- 3 CONFIRM EXACT LOCATION OF UNIT ON ROOF WITH OWNER AND STRUCTURAL ENGINEER AND PROVIDE NECESSARY SHEET METAL OFFSETS TO MATCH APPROVED UNIT LOCATION. SECURE SEISMIC ROOF CURB TO ROOF STRUCTURE AND AIR CONDITIONING UNIT TO SEISMIC ROOF CURB. CUT ROOF OPENINGS THROUGH ROOF AND INSTALL SIEBELERENTIAL FRAMING AS REQUIRED TO FRAME OPENINGS AS DIRECTED BY STRUCTURAL ENGINEER. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET TRANSITION AT SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE.
- 4 DASHED LINE ON SUPPLY AND RETURN DUCTWORK INDICATES 1" ACOUSTIC LINING. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING - TYPICAL.
- 5 DASHED LINE ON EXHAUST DUCTWORK INDICATES 1/2" ACOUSTIC LINING. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING - TYPICAL.
- 6 EHS SYSTEM DRAWINGS BY C&C BUILDING AUTOMATION SHALL DICTATE FINAL LOCATIONS OF ALL TEMPERATURE SENSORS. ALL WIRING SHALL BE IN CONDUIT PER NEC.
- 7 EXTEND SUPPLY AND RETURN DUCTS FULL SIZE FROM UNIT AND TRANSITION TO SIZES INDICATED ON PLANS.
- 8 TRANSITION FROM 27"x22" RECTANGULAR NECK ON RETURN AIR GRILLE TO RETURN DUCT SIZE AS INDICATED ON PLANS.
- 9 MOUNT TOP OF THERMOSTAT FOR EF-2 ON WALL NEXT TO DOOR IN THE EQUIPMENT CLOSET AT 48" A.F.F. THERMOSTAT SHALL BE HIRED BY ELECTRICAL CONTRACTOR (REFER TO ELECTRICAL DRAWINGS FOR WIRING DIAGRAM). EF-2 TO BE CONTROLLED VIA EHS AND LINE VOLTAGE THERMOSTAT. ALL WIRING SHALL BE IN CONDUIT PER NEC.
- 10 TAG ALL MANUAL VOLUME DAMPERS FOR FUTURE IDENTIFICATION. TAG SHALL IDENTIFY SPACE SERVED - TYPICAL.
- 11 MECHANICAL CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH SPECIFIC AVG UNIT NUMBER TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH DISCONNECT IN A LOCATION VISIBLE FROM THE ROOF HATCH.
- 12 1/2" ACOUSTIC LINED 14"x14" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
- 13 M.C. SHALL PROVIDE 24"x12" TITUS MODEL T-TOOL WHITE, STEEL, LOWERED DOOR GRILLE WITH AUXILIARY FRAME IN DOOR. MOUNT BOTTOM OF DOOR GRILLE AT 16" A.F.F. COORDINATE WITH DOOR SHOP DRAWINGS.
- 14 PROVIDE MVD/CABLE OPERATED DAMPERS WHERE DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILING - TYPICAL.
- 15 DROP DUCT TO ALLOW THE BOTTOM OF THE DUCT TO BE NO LOWER THAN 8"-1" A.F.F.



OFFICE AND FITTING ROOMS MECHANICAL FLOOR PLAN

SCALE
3/8" = 1'-0"

STORE #2524
 KETTERING, OH
 100 E STROOP ROAD
 KETTERING, OHIO 45429

REVISIONS
 BID/PERMIT 11-16-2022
 ADDENDUM C 04-17-2023

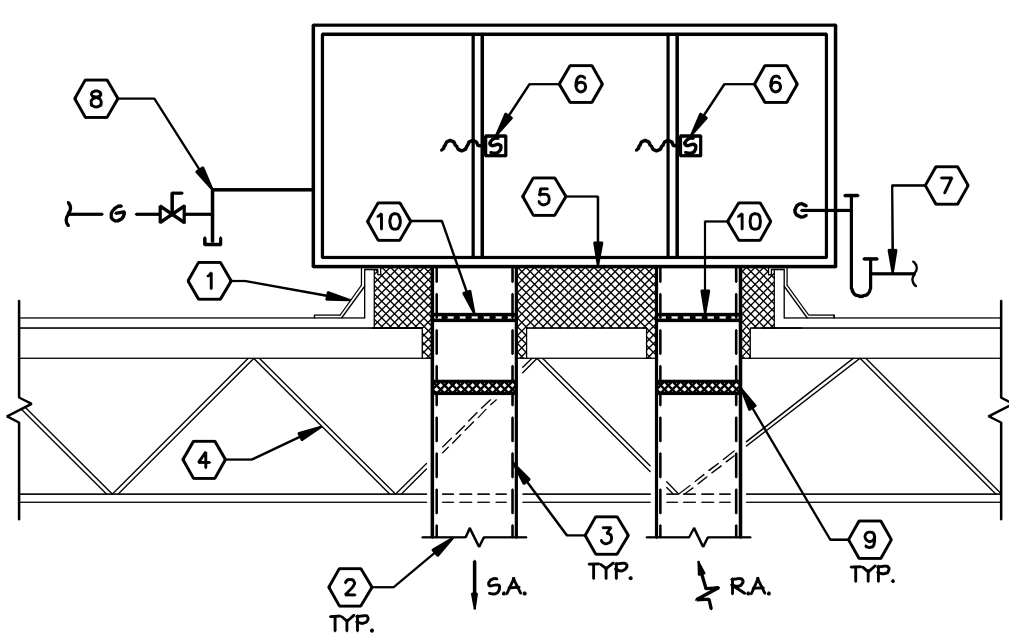
SCALE
AS NOTED

PROJECT NO. 22.122.10

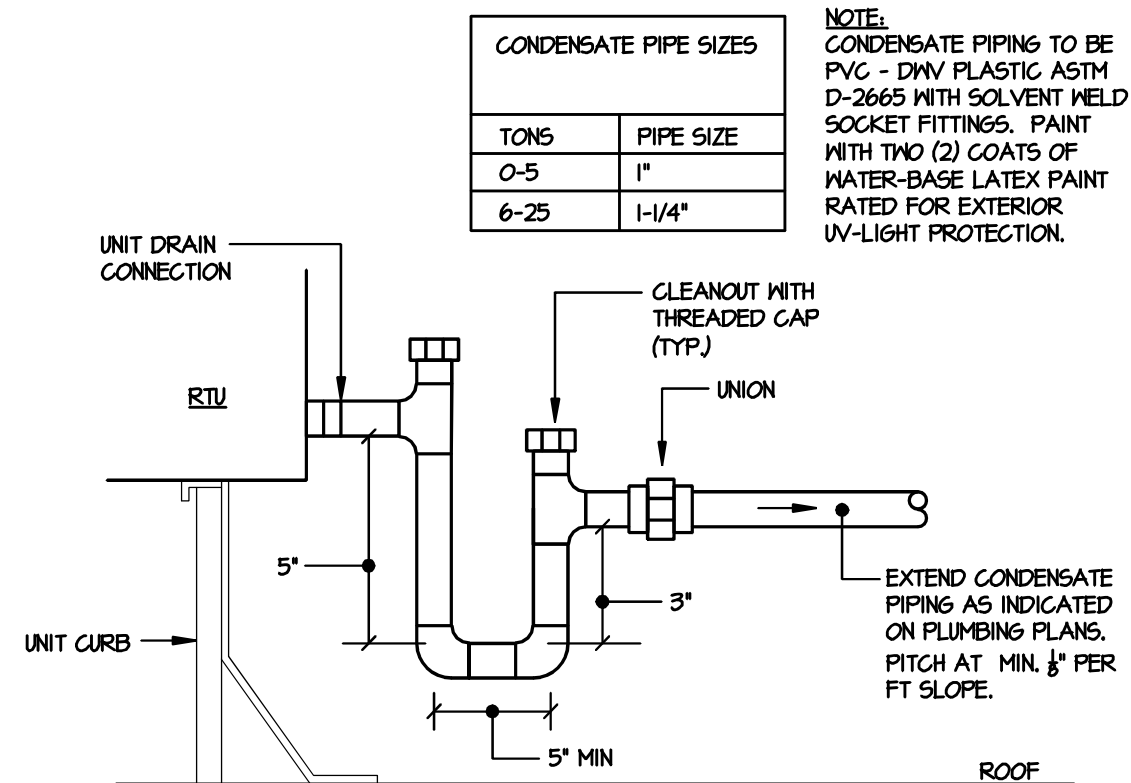
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- NOTES:**
- SET ROOF CURB ON STRUCTURAL STEEL FRAMING SHIM DEAD LEVEL AND SECURE ROOF CURB TO ROOF DECK. SECURE A.G. UNIT TO NEW ROOF CURB.
 - EXTEND SUPPLY AND RETURN DUCTS FULL SIZE FROM UNIT AND TRANSITION AS NECESSARY TO CONNECT TO DUCT SIZES INDICATED ON PLANS.
 - PROVIDE 1" ACOUSTIC LINING IN SUPPLY AND RETURN DUCTS AS INDICATED ON PLANS. DUCT SIZES INDICATED ON PLANS ARE EXTERIOR AND INCLUDE LINING.
 - REFER TO STRUCTURAL DRAWINGS FOR JOIST AND GIRDER LOCATIONS, SIZES, & DIRECTION.
 - PACK OPENINGS BETWEEN ROOF DECK AND DUCTS AND ENTIRE CURB CAVITY WITH FIBERGLASS INSULATION. PROVIDE SHEETMETAL ENCLOSURE AT DUCT PENETRATIONS OF METAL ROOF DECK TO COVER UP AND HOLD INSULATION IN PLACE.
 - PHOTOELECTRIC SMOKE DETECTOR FACTORY INSTALLED IN THE SUPPLY AND RETURN AIR SECTIONS OF ROOFTOP AIR CONDITIONING UNIT TO SHUT DOWN UNIT UNDER ALARM.
 - CONDENSATE DRAIN TRAP - REFER TO DETAIL. REFER TO PLUMBING PLANS FOR ROUTING.
 - GAS CONNECTION WITH GAS COCK, UNION, AND BIRTLERS. REFER TO PLUMBING PLANS FOR GAS PIPE SIZES AND LAYOUT.
 - FLEXIBLE CONNECTION - TYPICAL.
 - BURGLAR BARS, FACTORY INSTALLED.



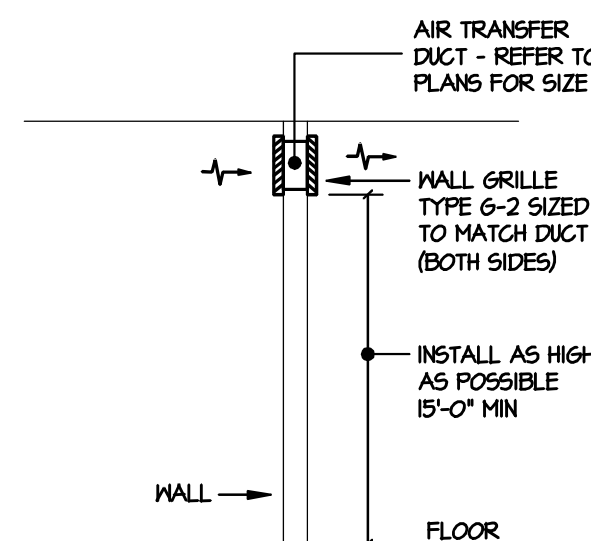
ROOFTOP A/C UNIT DETAIL - GAS HEAT
SCALE: NONE



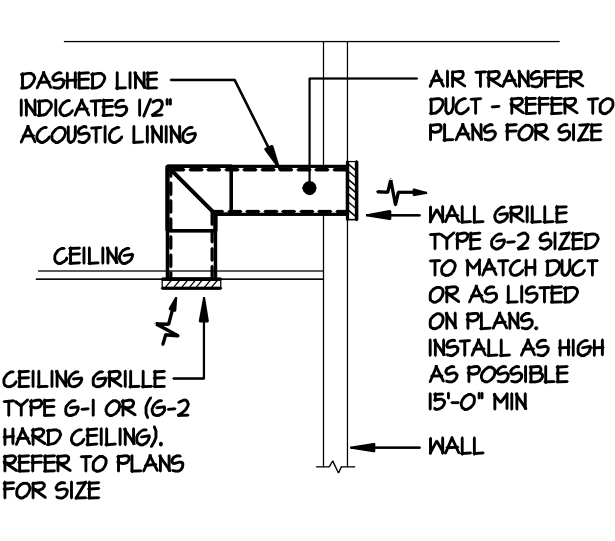
ROOFTOP CONDENSATE TRAP DETAIL
SCALE: NONE

- NOTES FOR ALL AIR TRANSFER DUCTS:**
- SEAL VOID BETWEEN MALL AND ALL DUCT PENETRATIONS AIRTIGHT.
 - ACOUSTIC LINE AIR TRANSFER DUCTS WITH 1/2" ACOUSTIC LINING. DUCT DIMENSIONS ARE EXTERIOR AND INCLUDE LINING.
 - ALL GRILLES SHALL BE FURNISHED WITH FRAMES COMPATIBLE WITH MALL OR CEILING CONSTRUCTION.
 - REFER TO PLANS FOR GRILLE AND DUCT SIZES.

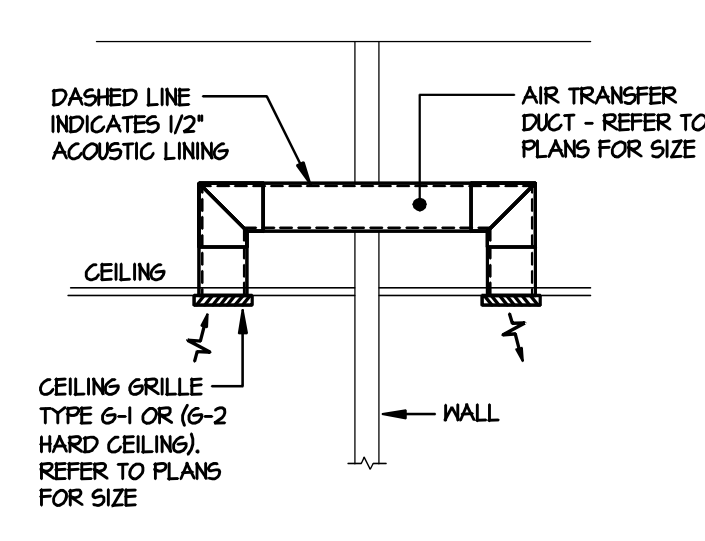
GRILLE	DUCT	GEN
12" x 12"	12" x 10"	350
24" x 12"	24" x 10"	700
24" x 24"	24" x 16"	1400
48" x 24"	48" x 16"	2800



ATD-1

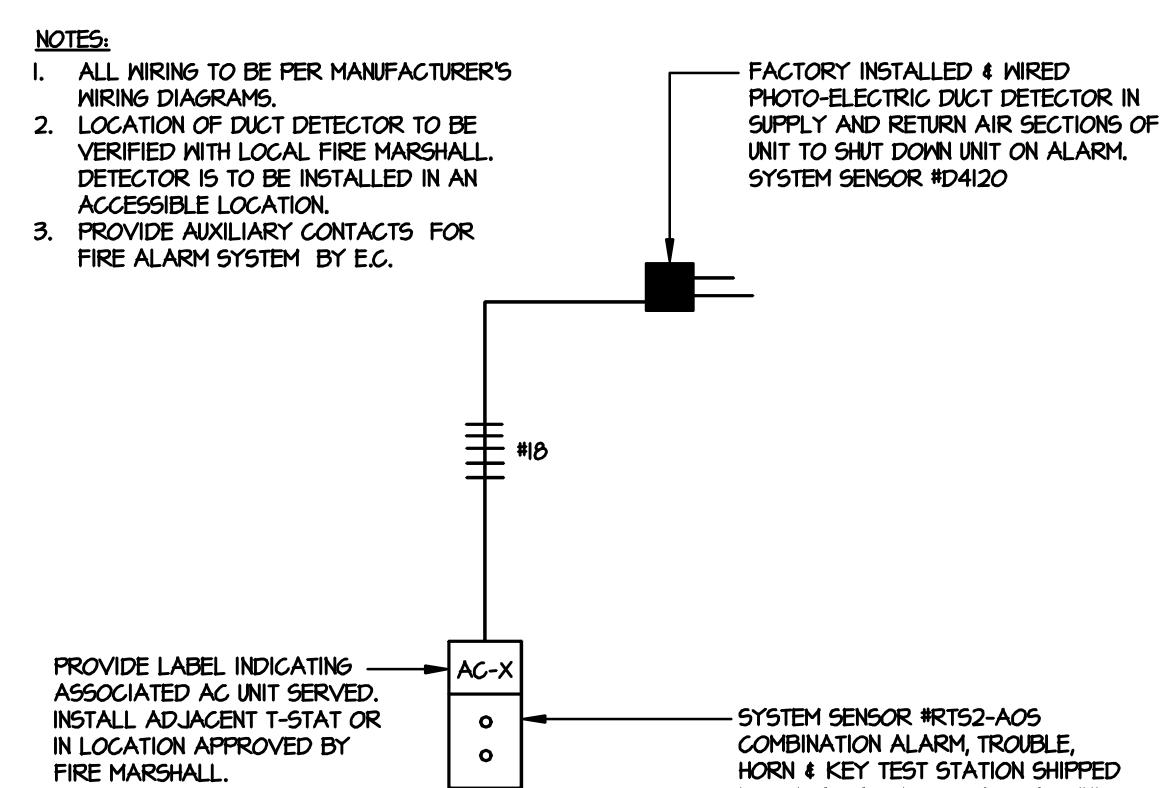


ATD-2

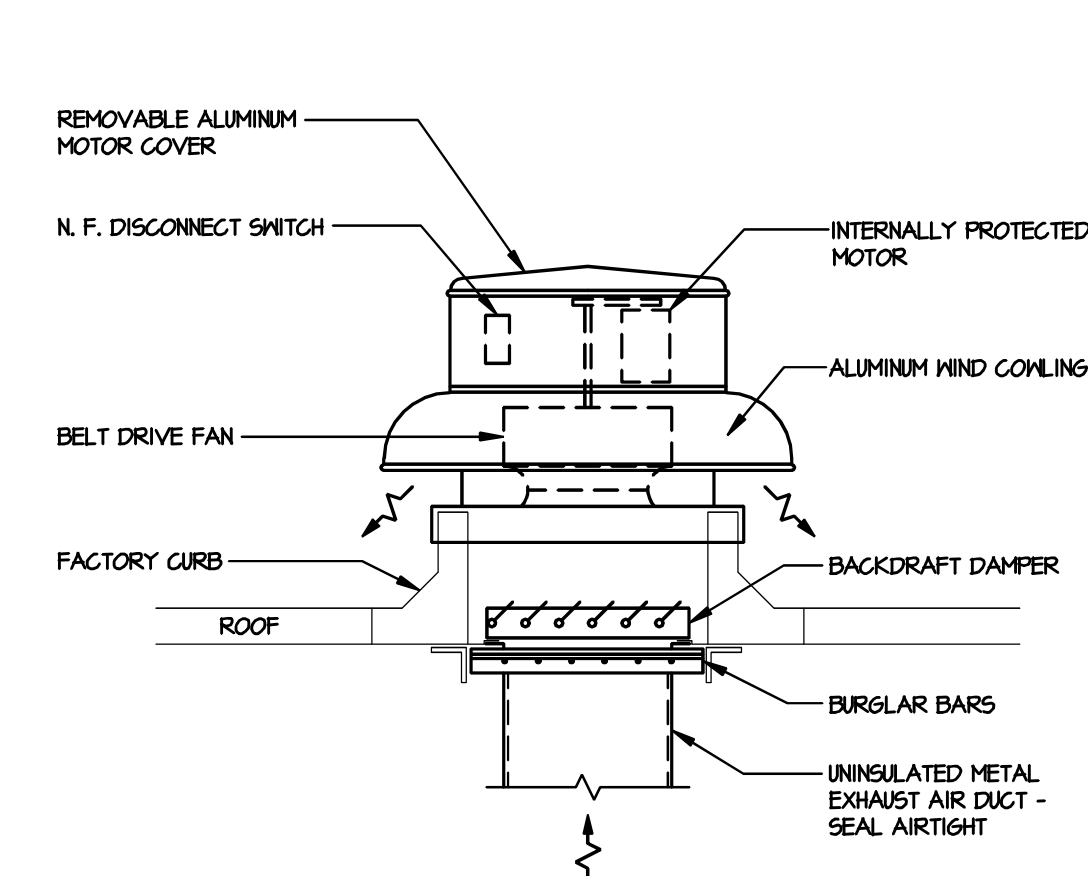


ATD-3

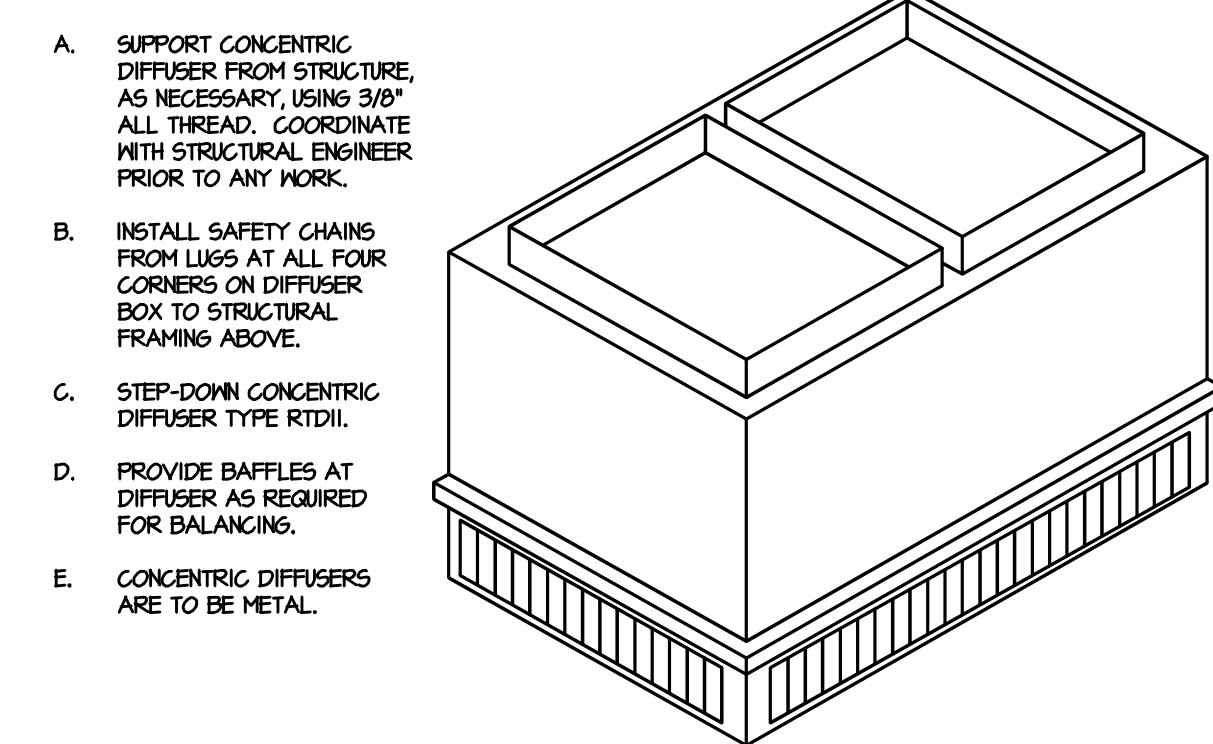
AIR TRANSFER DUCT DETAILS
SCALE: NONE



DUCT SMOKE DETECTOR WIRING DIAGRAM
SCALE: NONE



EXHAUST FAN DETAIL
SCALE: NONE



STEP-DOWN CONCENTRIC DIFFUSER DETAIL
SCALE: NONE

- SUPPORT CONCENTRIC DIFFUSER FROM STRUCTURE, AS NECESSARY, USING 3/8" ALL THREAD. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO ANY WORK.
- INSTALL SAFETY CHAINS FROM LUGS AT ALL FOUR CORNERS ON DIFFUSER BOX TO STRUCTURAL FRAMING ABOVE.
- STEP-DOWN CONCENTRIC DIFFUSER TYPE RTD.
- PROVIDE BARRIERS AT DIFFUSERS AS REQUIRED FOR BALANCING.
- CONCENTRIC DIFFUSERS ARE TO BE METAL.

MARK	MAKE	MODEL	DESCRIPTION	MATERIAL	REMARKS
MVD / 1	METROPOLITAN AIR TECHNOLOGY	RECT-RT-200 ROUND - RT-250	CABLE OPERATED, REMOTE CONTROL, MANUAL BALANCING DAMPER	GALV. STEEL	INSTALL OUTSIDE THE AIR STREAM INSTALLATION FOR SQUARE CEILING DIFFUSERS OR GRILLES WITH BALANCING DAMPER INSTALLED AT AN INACCESSIBLE CONCEALED LOCATION, NOTE 1

- NOTES:**
- LOCATE DAMPER REMOTE ADJUSTMENT TIP IN CEILING ADJACENT TO CORRESPONDING DIFFUSER OR GRILLE WITH 1" MINI CEILING CUP.

MARK	TYPE	MAKE	MODEL	KW	CFM	ELECTRICAL	SIZE	ACCESSORIES
CH / 1	CEILING-MOUNTED FAN-FORCED HEATER	Q-MARK	EFF4008	4.0	150	208 / 1 / 60	19-1/8" x 16" x 1"D	1
CH / 2	ARCHITECTURAL HEAVY DUTY WALL HEATER	Q-MARK	AH4404F	1.5	100	208 / 1 / 60	15-3/4" x 19-5/16" x 5-1/8"D	2
CH / 3	ARCHITECTURAL HEAVY DUTY WALL HEATER	Q-MARK	AH4404F	1.5	100	208 / 1 / 60	15-3/4" x 19-5/16" x 5-1/8"D	2

- NOTES:**
- FULLY RECESSED CABINET HEATER WITH WALL-MOUNTED THERMOSTAT WITH OFF POSITION, DISCONNECT SWITCH, THERMAL CUT-OUT WITH MANUAL RESET, WASHABLE PERMANENT FILTERS AND ALL NECESSARY TRANSFORMERS, RELAYS, MOUNTING HARDWARE AND TRIM. COLOR NORTHERN WHITE AS SELECTED BY ARCHITECT.
 - PROVIDE WITH INTEGRAL THERMOSTAT, SURFACE MOUNTING FRAME, AND INTEGRAL DISCONNECT SWITCH.

ROOM NAME	ROOM AREA (ft ²)	CLASSIFICATION	CFM / FIXTURE	NO. OF FIXTURES	REQUIRED EXHAUST	DESIGN EXHAUST
MEN FITTING	220	FITTING ROOM	0.25 CFM/SQ FT	-	55	200
WOMEN FITTING	450	FITTING ROOM	0.25 CFM/SQ FT	-	113	200
MEN	121	TOILET	70 CFM/FIXTURE	3	210	250
WOMEN	138	TOILET	70 CFM/FIXTURE	3	210	250

ROOM NAME		ROOM AREA (ft ²)	CLASSIFICATION	MECHANICAL VENTILATION (OUTSIDE AIR) SCHEDULE																													
		GROSS	NET (AZ)	CALCULATED		# OF PEOPLE		CFM/PERSON		OUTDOOR AIR		REQUIRED		ZONE AIR DIST.		ZONE O.A. RATE		PRIMARY AIRFLOW		PRIMARY O.A. FRACTION		SYSTEM VENTILATION EFFICIENCY (E _v)		OCCUPANT DIVERSITY		UNCORRECTED O.A. INTAKE		DESIGN O.A. INTAKE		SYSTEM			
				PEOPLE PER 1000 ft ²	NO. OF OCCUP.	IN AREA (Pa)	PER TABLE (Table 403.3)	CFM1 (Table 403.3)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	O.A. (Voz)	O.A. (Voz)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)	CFM1 (RpP2)	CFM2 (RpP2)		
PROCESSING		1583	1583	Shipping/receiving	0	0	0	0	0.12	0	190	190	0.8	238	2000																		
EXPANSION		5934	5934	Warehouses	0	0	0	0	0.12	0	712	713	0.8	892	2500																		
EGRESS HALL		97	97	Corridors	0	0	0	0	0.08	0	6	6	0.8	8	100																		
MANAGER		103	103	Office space	5	1	1	5	0.08	5	6	12	0.8	15	350	0.04																	
EQUIPMENT		40	40	Storage rooms	0	0	0	0	0.12	0	5	5	0.8	7	50	0.14																	
CASH		56	56	Office space	5	1	1	5	0.08	5	3	9	0.8	12	150	0.08																	
OFFICE HALL		91	91	Corridors	0	0	0	0	0.08	0	5	6	0.8	8	50	0.16																	
LOCKER		334	334	Break rooms	25	9	9	5	0.08	45	20	66	0.8	83	600	0.14																	
FITTING FOYER		140	140	Sales	15	3	3	7.5	0.12	23	17	40	0.8	50	200	0.25																	
RESTROOM HALL		203	203	Corridors	0	0	0	0	0.08	0	12	13	0.8	17	200	0.09																	
SALES 4		415	415	Sales	15	7	7	7.5	0.12	53	50	103	0.8	129	600	0.22																	
SALES 3, 5, 6, 7		16684	16684	Sales	15	251	251	7.5	0.12	1883	1883	3885	0.8	4857	18600																		

MARK	MAKE	MODEL	CFM	TYPE	FUEL	INPUT MBH	HP	ELECTRICAL	REMARKS
UH/1	LENNOX	LF 25-200	2200	FAN	NATURAL GAS	200	1 @ 1/8"	120-1-60	1, 2, 3, 4

- ACCESSORIES:**
- POWER VENTED WITH SPARK IGNITION, AND FAN GUARD.
 - CONTROLLED BY EMS. REFER TO EMS PLANS.
 - HORIZONTAL AND VERTICAL DISCHARGE LOUVERS.
 - PROPELLER FAN AND FAN GUARD.

MECHANICAL SCHEDULES AND DETAILS
SCALE: NONE

McHenry & Associates Incorporated
Mc & A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mcHenryassociates.com

mg
mcgarchitecture.com

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STORE #2524
KETERING, OH
100 E STROOP ROAD
KETERING, OH 45429

REVISIONS
BID/PERMIT 11-16-2022
ADDENDUM C 04-17-2023

SCALE
AS NOTED

PROJECT NO. 22.122.10
SHEET NUMBER
M2

APR 17, 2023 - 08:08:26 DWG Name: C:\Users\2023\m\OneDrive\Projects\2023\2524\2524-01.dwg Updated By: mcherry

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

McHenry & Associates Incorporated
Mc & A
Consulting Engineers est. 1960
25001 Emery Road, Suite #200
Warrensville Heights, Ohio 44128
Phone: 216-292-4696
Fax: 216-292-5874
Email: mail@mcHenryassociates.com

mg
megarchitecture.com
MECHANICAL ELECTRICAL PLUMBING
HVAC DESIGN CRITERIA

Table with 5 columns: ITEM/MUST APPEAR ON PLANS?, HVAC DESIGN CRITERIA & CHECKLIST, SIGNOFF REQUIRED FOR SUBMITTAL, SIGNOFF REQUIRED FOR SUBMITTAL, SIGNOFF REQUIRED FOR DESIGN ACCEPTANCE. Rows include 1. OUTSIDE AIR DESIGN, 2. ROOM DESIGN, 3. PEOPLE DESIGN, 4. VENTILATION DESIGN, 5. ELECTRICAL DESIGN LOADS.

Table with 5 columns: ITEM/MUST APPEAR ON PLANS?, HVAC DESIGN CRITERIA & CHECKLIST, SIGNOFF REQUIRED FOR SUBMITTAL, SIGNOFF REQUIRED FOR SUBMITTAL, SIGNOFF REQUIRED FOR DESIGN ACCEPTANCE. Rows include 6. HVAC SYSTEM DESIGN, 6.B.1 NATIONAL ACCOUNT INFORMATION, 6.B.1.A Y, 6.B.1.B Y, 6.B.1.C Y, 6.B.1.D Y, 6.B.2 Y, 6.B.2.A Y, 6.B.2.B Y, 6.B.2.C Y, 6.B.3 Y, 6.B.3.A Y.

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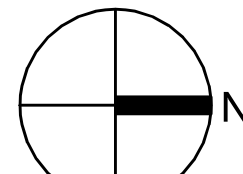
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STORE #2524
KETERING, OH
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REVISIONS
BID/PERMIT 11-16-2022

SCALE
AS NOTED
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Nov 15, 2022 - 14:05:04 DWG Name: C:\Users\mchery\OneDrive\Documents\ROSS\2022\2524\2524-103.dwg Updated by: mchery