

KEYNOTE SYMBOLS: (1, 2, X)

- ALL EXISTING PROVISIONS IN THIS AREA TO REMAIN. CLEAN AND REFURBISH EQUIPMENT AND DIFFUSERS FOR FULL AND COMPLETE OPERATION.
- RELOCATE EXISTING THERMOSTAT TO LOCATION SHOWN.
- EXISTING SUPPLY DIFFUSER TO REMAIN. CLEAN AND REFURBISH TO LIKE NEW CONDITION. BALANCE SUPPLY DIFFUSER TO 200 CFM.
- RELOCATE EXISTING RETURN GRILLE TO LOCATION SHOWN. CLEAN AND REFURBISH TO LIKE NEW CONDITION. BALANCE RETURN GRILLE TO 200 CFM.
- LOCATE BOTTOM OF RETURN GRILLE AT LEAST 12'-6" AFF.
- FURNISH AND INSTALL APPROPRIATE DUCT TRANSITION TO VAV TERMINAL.

**3 MECHANICAL KEYNOTES**  
SCALE: N/A

- ALL PIPING AND HEADS SHALL BE INSTALLED PER LATEST EDITION OF NFPA 13. HEAD SPACING SHALL BE BASED UPON THE ORDINARY HAZARD SCHEDULE. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK IRON. SCHEDULE 10 PIPING IS PERMISSIBLE IF ACCEPTABLE TO THE LANDLORD. HYDRAULICALLY CALCULATE SYSTEM AND SUBMIT COPIES OF THE CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AND THE LANDLORD.
- PREPARE SHOP DRAWINGS FOR SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION AND THE LANDLORD BEFORE FABRICATION.
- TWO COPIES OF THE APPROVED SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND THE LANDLORD PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- PROVIDE FOR INSPECTION TESTING AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND THE STATE INSPECTION BUREAU AS REQUIRED.
- PROVIDE SIGNED CERTIFICATE OF COMPLETION COPIES TO BE GIVEN TO OWNER'S REPRESENTATIVE, INSURANCE REPRESENTATIVE, AND PROJECT OFFICE.
- HOLD ALL SPRINKLER LINES AS HIGH AS POSSIBLE TO MAINTAIN 18" CLEARANCE ABOVE STOCK SHELVING.
- SPRINKLER HEADS IN SALES AREA SHALL BE CONCEALED TYPE WITH WHITE COVER PLATES. UPRIGHT PENDANT HEADS SHALL BE USED IN ALL AREAS WITHOUT A CEILING. PENDANT HEADS WITH ESCUTCHEON PLATES SHALL BE USED IN ALL STOCKROOM AREAS/RESTROOMS WITH LAY-IN OR GYPSUM BOARD CEILINGS. SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE 165°F IN SALES AND STOCK AREAS AND 212°F IN DISPLAY WINDOWS AND LIGHTING FIXTURE CANOPIES OR AS REQUIRED BY LANDLORD'S INSURANCE AGENCY AND LOCAL AUTHORITIES. SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE. ALL SEMI-RECESSED AND CONCEALED HEADS SHALL BE WHITE.
- VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS WHICH WILL AFFECT THE WORK. PROVIDE ALL REQUIRED PIPING AND OR REVISIONS IN ADVANCE WITH THE LANDLORD'S FIELD REPRESENTATIVE. THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL (REQUIRED).
- SPRINKLER SHOP DRAWINGS UNDER SEPARATE COVER. SUPPLY SPRINKLER SHOP DRAWINGS AND APPLY TO BUILDING DEPARTMENT (REQUIRED).
- LANDLORD DESIGNATED CONTRACTOR TO PERFORM ALL SPRINKLER MODIFICATIONS. SYSTEM MODIFICATIONS SHALL BE SCHEDULED IN ADVANCE WITH THE LANDLORD'S FIELD REPRESENTATIVE. THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL.
- ALL FIRE PROTECTION AND SPRINKLER SYSTEM WORK SHALL BE IN ACCORDANCE WITH MALL'S INSURANCE AGENCY REQUIREMENTS, NFPA, STATE, COUNTY AND LOCAL FIRE MARSHALL.

**2 FIRE PROTECTION SPECIFICATIONS**  
SCALE: N/A

**NOTE:**  
EXISTING CONDITIONS WERE TAKEN FROM SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

ALL HVAC EQUIPMENT AND CONTROLS MUST BE LOCATED FOR PROPER ACCESS FOR MAINTENANCE AND REPAIR, WHETHER INSTALLATION IS EXISTING OR NEW. EXISTING EQUIPMENT AND CONTROLS SHALL BE RELOCATED BY THIS CONTRACTOR IF REQUIRED.

- ALL OF THE MECHANICAL WORK IS NOT NECESSARILY SHOWN OR NOTED ON THESE DRAWINGS. THE CONTRACTORS SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS RELATED TO THEIR WORK BEFORE BIDDING. NOTIFY THE OWNER OF ANY DISCREPANCIES. THOSE ITEMS NOT SHOWN OR NOTED BUT WHICH ARE DEEMED NECESSARY FOR REMOVAL OR RELOCATION BY OWNER'S REPRESENTATIVE SHALL BE PART OF THIS CONTRACT.
- THE SUBMISSION OF PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTORS HAVE VISITED THE SITE. NO EXTRA PAYMENTS WILL BE ALLOWED THESE CONTRACTORS CLAIMS FOR EXTRA WORK MADE NECESSARY BY THEIR FAILURE TO VISIT THE SITE.
- GUARANTEE ALL EQUIPMENT AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND REPAIR OR REPLACE WITHOUT COST TO THE OWNER ANY EQUIPMENT WHICH IS DEFECTIVE, OR IMPROPERLY INSTALLED. IN ADDITION, ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING AND ITS CONTENTS OR OTHER EQUIPMENT CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS PORTION OF THE WORK.
- ALL WORK SHALL BE COMPLETED AND INSTALLED ACCORDING TO STATE AND OR LOCAL CODES, AND ALL LANDLORD CRITERIA.
- PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PROVIDE A CERTIFICATE OF INSPECTION.
- REVIEW ALL LANDLORD REQUIREMENTS AND INSTALL ALL MATERIALS AND EQUIPMENT AS DIRECTED BY THE LANDLORD'S REPRESENTATIVE AND AS REQUIRED BY THE LEASE DOCUMENTS. VERIFY THE REQUIREMENTS BEFORE SUBMITTING A BID.
- VERIFY THE SIZE, LOCATION AND CONDITION OF THE EXISTING DUCTWORK, EQUIPMENT AND CONTROLS THAT ARE TO REMAIN. NOTIFY THE OWNER OF ANY DISCREPANCIES. REPLACE EXISTING COMPONENTS IF INADEQUATE FOR THE NEW REQUIREMENTS OR INOPERABLE. COORDINATE REPLACEMENT COMPONENT SPECIFICATIONS WITH THE LANDLORD'S FIELD REPRESENTATIVE.
- FIVE (5) COPIES OF ALL SHOP OR EQUIPMENT DRAWINGS SHALL BE SUBMITTED TO THE OWNER. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES, REQUIRED INSPECTION LABELS AND GENERAL DESCRIPTION OF ALL EQUIPMENT AND FIXTURES.
- ALL AIR INTAKES AND EXHAUSTS NEED TO BE SEPARATED BY A MINIMUM OF 10'-0".
- NO COMPONENTS MAY BE ABANDONED IN PLACE WITHOUT PERMISSION FROM THE OWNER. ALL COMPONENTS THAT ARE NOT REUSED MUST BE REMOVED.
- VERIFY ALL CLEARANCES AROUND NEW AND EXISTING EQUIPMENT.
- CAP ALL UNUSED PLUMBING LINES ASSOCIATED WITH LEASED SPACE AS REQUIRED BY LANDLORD AND LOCAL AUTHORITY HAVING JURISDICTION.
- FURNISH AND INSTALL BACKFLOW PREVENTER IF REQUIRED BY AUTHORITY HAVING JURISDICTION OR LANDLORD.
- FURNISH AND INSTALL ALL MECHANICAL EQUIPMENT AND OR AIR DEVICES AS SCHEDULED ON THE DRAWINGS. BIDS SHALL BE BASED ON THE EQUIPMENT SPECIFIED AND NO SUBSTITUTIONS WILL BE ACCEPTED.
- FURNISH AND INSTALL ALL SYSTEMS OF HVAC CONTROL (TO INCLUDE CONTROL WIRING) TO PROVIDE A COMPLETE SYSTEM.
- FLEX DUCTWORK SHALL NOT EXCEED 3'-0" IN LENGTH.
- A CERTIFIED AIR BALANCE REPORT IS TO BE PROVIDED TO THE LANDLORD PRIOR TO STORE OPENING.
- REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PLUMBING FIXTURES, PIPING, SYSTEMS, ETC., NOT BEING REUSED. DO NOT ABANDON.
- THE G.C. SHALL HAVE EXISTING SANITARY WASTE LINE INSPECTED BY CAMERA, TO LEASE LINE, PRIOR TO COMMENCING NEW WORK. RECORDING OF INSPECTION SHALL BE FURNISHED TO OWNER ALONG WITH ANY FINDINGS ADVISING REPAIR OR CLEARANCE OF ANY OBSERVED OBSTRUCTIONS OF THE EXISTING PIPE PRIOR TO ROUGH-IN INSPECTION.
- ALL HVAC SYSTEMS AND EQUIPMENT CAPACITIES HAVE BEEN DESIGNED TO NOT EXCEED CALCULATION LOADS.
- ALL DUCTS AND PLENUMS SHALL BE SEALED BASED ON STATIC PRESSURE AND LOCATION.
- HVAC CONTROL SYSTEMS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION, AND ADJUSTMENT OF CONTROLS.
- PROVIDE R-6 MINIMUM INSULATION WRAP ON ALL CONCEALED DUCTWORK. PROVIDE R-4.2 MINIMUM INTERNAL DUCT LINER ON ALL EXPOSED SPIRAL DUCTWORK. PROVIDE R-6 MINIMUM INTERNAL DUCT LINER ON ALL EXPOSED RECTANGULAR DUCTWORK. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE DIMENSIONS; SHEET METAL SIZES SHALL INCREASE ACCORDINGLY. PROVIDE R-12 MINIMUM INSULATION ON ALL DUCTWORK INSTALLED IN UNCONDITIONED SPACES. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

**7 GENERAL NOTES**  
SCALE: N/A

MECHANICAL SYMBOLS LEGEND	
(T/H)	THERMOSTAT / HUMIDISTAT
(V)	VOLUME DAMPER
(FD)	FIRE DAMPER
(□)	CEILING SUPPLY AIR DIFFUSER
(□)	CEILING RETURN AIR GRILLE
(=)	SIDEWALL AIR DIFFUSER OR GRILLE
(—)	NEW DUCTWORK
(—)	EXISTING DUCTWORK
(— CD)	CONDENSATE DRAIN
(— G)	GAS PIPING
(→)	PIPE TURNING DOWN
(→)	PIPE TURNING UP
(●)	BALL VALVE
(●)	CONNECTION OF NEW TO EXISTING
(N)	CHECK VALVE
(C)	GAS COCK
(S)	STRAINER
(AFF)	ABOVE FINISHED FLOOR
(ETR)	EXISTING TO REMAIN
(#)	AIR DEVICE #
(CFM)	CFM
(S)	S - SUPPLY
(R)	R - RETURN
(E)	E - EXHAUST

FIRE PROTECTION SYMBOLS LEGEND	
(○)	EXISTING SPRINKLER HEAD
(●)	CHROME PENDANT SPRINKLER HEAD
(○)	UPRIGHT SPRINKLER HEAD
(○)	CONCEALED SPRINKLER HEAD
(▶)	SIDEWALL SPRINKLER HEAD

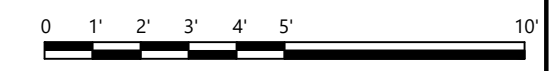
  

PLUMBING SYMBOLS LEGEND	
(—)	COLD WATER
(---)	HOT WATER
(—)	SANITARY DRAIN
(---)	SANITARY VENT
(VTR)	VENT THROUGH ROOF
(—)	PLUMBING TRAP
(CO)	CLEAN OUT

**6 LEGEND**  
SCALE: N/A



**20 MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"



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MECHANICAL FLOOR PLAN

SHEET NO:  
**M1.0**

**BID SET**