

HVAC ABBREVIATIONS

ABV	ABOVE
AD	DUCT ACCESS DOOR
BDD	BACK-DRAFT-DAMPER
CD	CEILING DIFFUSER
C/M	CUBIC FEET/MINUTE
COMP	COMPRESSOR
DMPR	DAMPER
EC	ELECTRICAL CONTRACTOR
EGR	EGGCRATE RETURN GRILLE
ED	EXHAUST DUCT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EVAP	EVAPORATOR
FRAG	FILTERED RETURN AIR GRILLE
FD	FIRE DAMPER, PER ASSEMBLY RATING
FOB	FLAT ON BOTTOM DUCT TRANSITION
FOT	FLAT ON TOP DUCT TRANSITION
GC	GENERAL CONTRACTOR
GQ	GREASE EXHAUST DUCT
KES	KITCHEN EQUIPMENT SUPPLIER
MUAI	MAKE-UP AIR INTAKE
MUAD	MAKE-UP AIR DUCT
MUAF	MAKE-UP AIR FAN
OAI	OUTSIDE-AIR-INTAKE
OAD	OUTSIDE AIR DUCT
PC	PLUMBING CONTRACTOR
POD	PERFORATED FACE DIRECTIONAL DIFFUSER
RAD	RETURN-AIR DUCT
RAR	RETURN AIR REGISTER
RCD	ROUND CEILING DIFFUSER
RDR	ROUND DUCT REGISTER
RH	RADIANT HEATER
RIS	ROUND TO SQUARE DUCT TRANSITION
RTU	ROOFTOP HVAC UNIT
SAD	SUPPLY AIR DUCT
SDF	SUPPLY AIR FAN
SR	SUPPLY REGISTER
SG	SUPPLY GRILLE
STR	SQUARE TO ROUND DUCT TRANSITION
TG	TRANSFER GRILLE, EQUAL TO RAG
TSTAT	THERMOSTAT
UCD	UNDER-CUT DOOR 1"
VAVCD	VARIABLE VOLUME CEILING DIFFUSER

HVAC PLAN SYMBOLS

WXH	RECTANGULAR & ROUND DUCTWORK ABOVE CEILING, NET INTERNAL SIZE AS INDICATED GALVANIZED STEEL SHEET CONSTRUCTED TO SMACNA LOW PRESSURE STANDARD, INSULATED.
	CEILING DIFFUSER (CD), 24X24 LAY-IN SQUARE CONE DIFFUSER, PROVIDE VOLUME DAMPER AT DUCT TAKE-OFF FOR BALANCING, NECK SIZE AS INDICATED.
	RETURN AIR GRILLE (RAG), 24X24 LAY-IN PERFORATED FACE, PROVIDE VOLUME DAMPER AT DUCT TAKE-OFF FOR BALANCING, NECK SIZE AS INDICATED.
	RETURN AIR REGISTER (RAR) WITH INTEGRAL DAMPER, SIZE AS INDICATED.
	EXHAUST FAN, CFM AS INDICATED.
	COMBO EXHAUST FAN & LIGHT, CFM AS INDICATED, CF LAMP OPTION.
	VOLUME DAMPER TAKE-OFF, USE TO ROUGH BALANCE AIR SYSTEM, THEN FASTEN DAMPERS SECURELY IN PLACE.
	VOLUME DAMPER W/ 45° TAKE-OFF, USE TO ROUGH BALANCE AIR SYSTEM, THEN FASTEN DAMPERS SECURELY IN PLACE.
	ZONE SENSOR W/ SETPOINT ADJUSTMENT +48" AFF TO TOP
	CENTRAL CONTROL PANEL
	ATTIC DEHUMIDIFIER REMOTE CONTROLLER.
	SPACE CO2 SENSOR, PROVIDE DEMAND CONTROLLED VENTILATION KIT, YOUNG REGULATOR DEMAND-AIR OR EQUAL.

NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL design	
mechanical summary	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
Thermal Zone	
water dry bulb	18° F
summer dry bulb	91.5° F
Interior design conditions	
water dry bulb	68° F
summer dry bulb	75° F
relative humidity	50%
Building heating load	156.8 MBH
Building cooling load	19.3 TONS
Mechanical Spacing Conditioning System	
Unitary	
description of unit	SEE SCHEDULE(S)
heating efficiency	SEE SCHEDULE(S)
cooling efficiency	SEE SCHEDULE(S)
size category of unit	SEE SCHEDULE(S)
Boiler	
Size category: If oversized, state reason:	
Chiller	
Size category: If oversized, state reason:	
List equipment efficiencies	SEE SCHEDULE(S)

MECHANICAL SPECIFICATIONS

THE WORK INCLUDES PROVIDING MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING HVAC SYSTEM. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AND FREE FROM DEFECTS. ANY ITEM NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT THAT IS NORMALLY REQUIRED TO CONFORM TO THE INTENT, ARE TO BE CONSIDERED A PART OF THE CONTRACT. THE WORK MAY ALSO INCLUDE ROUGH-IN AND FINAL CONNECTIONS TO EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM. INSTALL ALL HVAC EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ALL HVAC WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE NORTH CAROLINA BUILDING CODES. INCLUDE PERMITS AND INSPECTION FEES IN CONTRACT.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL EQUIPMENT, DEVICES, ACCESSORIES, DUCTWORK, OFFSETS, TRANSITIONS, MATERIALS, ETC. NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

DEFINITIONS: FURNISH MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. INSTALL MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. PROVIDE MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

FIRESTOPPING IS A MATERIAL OR COMBINATION OF MATERIALS USED TO RETAIN INTEGRITY OF FIRE-RATED CONSTRUCTION BY MAINTAINING AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE, AND HOT GASES THROUGH PENETRATIONS IN FIRE RATED WALL, FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER OCCUPANCE OF THE COMPLETED PROJECT.

PROVIDE OPERATION MANUALS, MAINTENANCE MANUALS AND SCHEMATICS FOR ALL MECHANICAL EQUIPMENT INSTALLED.

COORDINATION: 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.

ATTIC ACCESS OPENING AND MECHANICAL PLATFORM TO BE PROVIDED BY G.C. SUGGESTED LOCATION OF ACCESS OPENING IS SHOWN ON THE PLANS. OPENING AND UNOBSTRUCTED PASSAGEWAY IS TO BE LARGE ENOUGH TO ALLOW REMOVAL AND REPLACEMENT OF LARGEST PIECE OF EQUIPMENT. THE PASSAGEWAY SHALL BE NOT LESS THAN 30" HIGH AND 24" WIDE AND NOT MORE THAN 20' IN LENGTH MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. A LEVEL SERVICE SPACE NOT LESS THAN 30" DEEP AND 30" WIDE SHALL BE PRESENT AT THE FRONT OR SERVICE SIDE OF THE EQUIPMENT.

CONDENSATE DISPOSAL SHALL BE PROVIDED ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS. CONDENSATE SHALL NOT DISCHARGE INTO AN AREA AS TO CAUSE A NUISANCE. AN AUXILIARY DRAIN PAN WITH A SEPARATE SECONDARY DRAIN SHALL BE PROVIDED WHERE DAMAGE TO ANY BUILDING COMPONENTS WILL OCCUR AS A RESULT OF OVERFLOW OF THE EQUIPMENT DRAIN PAN OR STOPPAGE IN THE CONDENSATE DRAIN PIPING. THE SECONDARY DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. CONDENSATE DRAINS SHALL BE TRAPPED ACCORDING TO MANUFACTURER.

PROVIDE AN OUTSIDE AIR INTAKE ON ROOF AND A DUCT CONNECTION TO THE RETURN SIDE OF EACH HVAC UNIT'S DUCTWORK, BEING INSTALLED AT THE FINAL RETURN DUCT CONNECTION. SIZE AS SHOWN ON PLANS. ROOF INTAKE SHALL BE LOCATED A MINIMUM OF 10' FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SUCH AS ROOF VENTS, DOWNETS, PLUMBING VENTS, ETC. AIR INTAKE SHALL BE PROTECTED WITH CORROSION RESISTANT SCREENS, LOUVERS, OR GRILLES. A MANUAL DAMPER TO SET OUTDOOR AIRFLOW SHALL BE PROVIDED AT THE CONNECTION TO THE RETURN DUCTWORK. SET OUTDOOR AIRFLOW AS INDICATED IN "OUTDOOR AIR REQUIREMENTS FOR VENTILATION" TABLE.

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE ROOF WARRANTY. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF NEW EQUIPMENT ON ROOF AND LOADS SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NORTH CAROLINA.

COORDINATE ALL REQUIRED ATTIC FRAMING, ROOF AND WALL OPENINGS WITH THE GENERAL CONTRACTOR. PROVIDE ALL CURBS, FLASHING, SLEEVES, SUPPORTING FRAMES, REINFORCING ANGLES, ETC. WHICH ARE REQUIRED UNLESS DIRECTED OTHERWISE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE IN INCH CLEAR DIMENSIONS.

SHEETMETAL DUCTWORK: PROVIDE SHEETMETAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. DUCTWORK SHALL BE ASTM A653 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, HAVING 990 ZINC COATING IN CONFORMANCE WITH ASTM A653. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT BEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL 90° ELBOWS.

ROUND SHEET METAL DUCT: PROVIDE UL 181, CLASS I, ROUND SPIRAL LOCK SEAM DUCT CONSTRUCTED OF GALVANIZED STEEL COMPLYING WITH SMACNA STANDARDS.

FLEXIBLE AIR DUCT: PROVIDE FACTORY ASSEMBLED CLASS 0 OR CLASS 1 AIR DUCT TESTED IN ACCORDANCE WITH UL 181 WITH INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 96A WITH FLAME SPREAD UNDER 50, AND SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250°F TEMPERATURE. FLEXIBLE DUCTS SHALL BE INSTALLED, SO THAT NO BEND HAS A RADIUS OF LESS THAN ONE AND HALF TIME THE DUCT DIAMETER. ALL FLEXIBLE DUCTWORK SHALL BE CUT TO THE LENGTHS NECESSARY FOR EACH APPLICATION, AND NO JOINTING OF PIECES OF FLEXIBLE DUCTWORK WILL BE PERMITTED. JOINTS BETWEEN FLEXIBLE AND SHEET METAL DUCTS SHALL BE MADE WITH APPROVED METAL BAND CLAMPS.

EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL BE CLEARED OF DEBRIS AND OIL, THEN WIPED DOWN WITH VINEGAR OR OTHER SURFACE PREPARING CHEMICAL TO PREPARE DUCT FOR PAINT.

DUCT INSULATION: PROVIDE FIBERGLASS TYPE FIBERGLASS INSULATION COMPLYING WITH ASTM C 1290 & NFPA 90A & 90B & WITH FACTORY APPLIED KRAFT BONDED TO ALUMINUM FOL, REINFORCED WITH FIBERGLASS VAPOR BARRIER BACKING. SPOCKET SHALL CONFORM TO ASTM C-1136, TYPE II. CLOSED-CELL NEOPRENE INSULATION SIMILAR TO ARMAFLEX MAY BE USED IN LIEU OF BLANKET TYPE INSULATION. ARRANGE FOR DUCTWORK TO BE INSPECTED BEFORE WRAPPING.

SUPPLY AND RETURN AIR VENTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES INSIDE THE BUILDING AND R-8 MINIMUM WHEN LOCATED OUTSIDE THE BUILDING INSULATION ENVELOPE OR IN ATTIC. WHEN LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACE BY A MINIMUM OF R-8. "R" VALUES SHALL BE AS INSTALLED.

DUCT LINERS (WHERE INDICATED) PROVIDE MINIMUM 1" THICK, 1.6 POF DENSITY, NEOPRENE COATED, LONG TEXTILE FIBER TYPE DUCT LINER CONFORMING TO ASTM C 1071, WITH COATING ON THE AIR STREAM SURFACE TO MEET NFPA 90A & 90B. 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.

DUCT SEALANT: PROVIDE POLYMERIC RUBBER TYPE SEALANT FOR USE ON BOTH INTERIOR LOCATED DUCTWORK AND DUCTWORK EXPOSED TO OUTDOOR CONDITIONS. SEALER SHALL HAVE HIGH BONDING STRENGTH FOR SURE, FIRST TIME SEALING OF JOINTS IN LOW, MEDIUM, AND HIGH PRESSURE DUCT SYSTEMS. SEALER SHALL BE HIGH IN SOLID CONTENT. PROVIDE A TWO PART TAPE SEALING SYSTEM, CONSISTING OF WOVEN FIBER TAPE IMPREGNATED WITH A GYPSUM MINERAL COMPOUND, AND A MODIFIED ACRYLIC/SILICONE ACTIVATOR THAT REACTS EXOTHERMICALLY WITH THE TAPE. TWO PART TAPE SEALING SYSTEM MUST BE RATED FOR BOTH INDOOR AND OUTDOOR APPLICATION. TAPE SHALL NOT CONTAIN ASBESTOS.

DUCT & EQUIPMENT HANGERS: PROVIDE HANGERS AND SUPPORTS TO SECURE EQUIPMENT OR DUCTWORK IN PLACE, PREVENT VIBRATION, & PROVIDE FOR EXPANSION AND CONTRACTION. PROVIDE INSULATION PROTECTION SADDLES TO ACCOMMODATE INSULATION. INSTALL SUPPORTS OF STRENGTH AND RIGIDITY TO SUIT LOADING WITHOUT UNDULY STRESSING BUILDING. SELECT HANGERS AND SUPPORTS CONSTRUCTED FOR THE SPECIFIC APPLICATION AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED MAXIMUM LOADING. FASTEN HANGERS AND SUPPORTS TO BUILDING STRUCTURE.

ROUND VOLUME DAMPERS EXCEPT BRANCH TAKE-OFF DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING, WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.

FABRICATED RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 16 GAUGE GALVANIZED STEEL BLADES, MINIMUM 1/2" HEXAGONAL AXLE, MOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE PLATED STEEL CONTROL SHAFT, LINKAGES SHALL BE CONCEALED IN THE FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUADRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 6".

DUCT TURNING VANES: (TO BE PROVIDED WHERE RADIUS ELBOWS WILL NOT FIT SPACE CONSTRAINTS) PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS, CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR SPACING SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE SINGLE WIDTH TYPE.

FLEXIBLE DUCT CONNECTORS: PROVIDE U.L. LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEET METAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.

TESTING AND BALANCING: CONTRACT DIRECTLY A THIRD PARTY TO PROVIDE TEST AND BALANCE OF THE HVAC SYSTEM. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE TEST AND BALANCE. TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB OR AABC, AND ASHRAE STANDARDS. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROLS. SUBMIT COMPLETED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

TEMPERATURE CONTROLS: PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT COMPATIBLE TO HVAC UNIT(S) AND CONTROL WIRING. THERMOSTAT SHALL HAVE AN ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRESETBACK OR SHUTDOWN SCHEDULE WITHOUT REPROGRAMMING. THERMOSTAT SHALL MEET SETPOINT ADJUSTMENT FOR UNOCCUPIED MODE: HEATING DOWN TO 55 DEGREES AND COOLING UP TO 85 DEGREES. THERMOSTAT SHALL HAVE AN AUTOMATIC CHANGEVER FEATURE BETWEEN HEATING & COOLING AND SHALL HAVE A SEPARATE FAN CONTROL. AUTOMATIC CHANGEVER FUNCTION SHALL INCORPORATE A 5T DEADBAND.

PROGRAMMING:

THE CONTRACTOR SHALL PROGRAM ALL THERMOSTATS AT PROJECT COMPLETION. COORDINATE WITH TENANT FOR PROGRAM SETTINGS.

*PROVIDE ALL CONTROL WIRING, THERMOSTATS, TRANSFORMERS, ETC. TO MEET SEQUENCE OF OPERATION

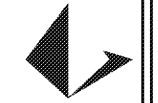
HVAC SYMBOLS & NOTES

NO SCALE



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