

















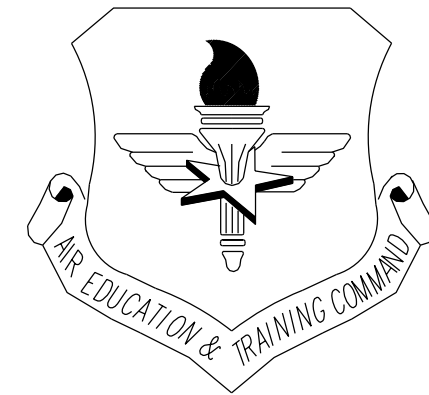
GRND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GFI, GFCI	GROUND FAULT INTERRUPTER
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HD	HEAD, HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HORIZ	HORSE POWER
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN WC	INCHES OF WATER COLUMN
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT-HOUR
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS, #	POUNDS
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPERES
LTG	LIGHTING
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MBTU, MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MINIMUM CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MOPC	MAXIMUM OVER CURRENT PROTECTION
MH	MANHOLE, METAL HALIDE
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OB	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED

	EXISTING PIPE TO BE REMOVED, "AAA" DENOTES TYPE
	ELBOW UP
	ELBOW DOWN
	TEE OUTLET UP
	TEE OUTLET DOWN
	VALVE IN DROP
	VALVE IN CENTER DROP
	VALVE IN RISE
	DIRECTION OF FLOW
	UNION
	STRAINER WITH BLOWDOWN VALVE
	CONCENTRIC REDUCER
	PIPE FLANGE
	THERMOMETER WELL
	FLEXIBLE CONNECTION

- BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
6. PROVIDE TURNING VANES AT ALL ELBOWS GREATER THAN 45°. TURNING VANES SHALL BE SINGLE THICKNESS.
7. MAXIMUM 3'-0" FLEX DUCT ON ALL DIFFUSER RUNOUTS. FLEX DUCT SHALL BE USED FOR STRAIGHT, VERTICAL RUNS (ABOVE CEILING ONLY); ELBOWS SHALL NOT BE CONSTRUCTED OF FLEX DUCT.
8. PROVIDE AIR TIGHT FITTING AND DAMPER AT EACH CONNECTION OF ROUND BRANCH DUCTS TO A RECTANGULAR DUCT.
9. SEE ARCH REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DEVICES.
10. ALL SUPPLY, RETURN, AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK FOIL BACKED FIBERGLASS INSULATION UNLESS SHOWN OTHERWISE. SEE SPECIFICATIONS FOR DETAILED INSULATION REQUIREMENTS.
11. INSULATE TOP OF ALL SUPPLY DIFFUSERS.
12. DUCT SIZES SHOWN ON PLANS INDICATE NET FREE AREA.

7. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
8. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
9. EXACT LOCATIONS OF ALL EQUIPMENT, THERMOSTATS, VAV BOXES, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS. ALL SPRINKLER HEADS MUST BE CENTERED IN CEILING GRID PANELS AND MUST PROVIDE FOR A SYMMETRICAL LAYOUT. SEE FIRE PROTECTION NOTES.
10. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS. COORDINATE PLACEMENT OF ALL THERMOSTATS, EQUIPMENT, ETC. WITH ARCHITECTURAL.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ARCHITECTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
12. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THOROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
13. NO OTHER TRADES, I.E., CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
14. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
15. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
16. ALL WIRING INSTALLED FOR CONTROLS, POWER, INTERLOCKS, ETC. SHALL BE INSTALLED IN CONDUIT. ALL SUCH INSTALLATIONS MUST MEET NFPA AND NEC REQUIREMENTS AND LOCAL CODES.
17. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT THERMOSTATS AT 48" A.F.F. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL MUST BE MOUNTED ON AN INSULATED BASE.

	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	KNIFE VALVE
	NEEDLE VALVE
	PLUG VALVE
	PINCH VALVE
	PRESSURE RELIEF
	VACUUM BREAKER
	VEEBALL VALVE
	SELF OPERATED VALVE
	THREE-WAY SELF OPERATED VALVE
	MOTORIZED VALVE
	SOLENOID VALVE



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PROJECT TITLE  
REPAIR & RENOVATE MEDICAL CLINIC PH V  
LITTLE ROCK AIR FORCE BASE  
JACKSONVILLE, ARKANSAS  
CHANGE ORDER TO PHASE V - 100% SUBMITTAL

MECHANICAL  
LEGEND AND ABBREVIATIONS

DRAWN BY GMT	LEAD DESIGNER GMT
TECH REVIEWER	PROJECT NUMBER NKA#06-8006-
DESIGNED BY GMT	SHEET <div style="text-align: center; font-size: 2em;">M-001</div>
DATE DEC. 3, 2010	<div style="text-align: center; font-size: 3em;">02 OF 21</div>
SCALE AS SHOWN	