1 BID ALTERNATE NOTES:

SEE SPECIFICATION SECTION 010000 GENERAL REQUIREMENTS FOR BID ALTERNATES: IF BID ALTERNATE NO. 5 AND/OR NO. 6 IS ACCEPTED, RELOCATE HVAC EQUIPMENT FROM LEVELS SHOWN TO APPROPRIATE LEVEL WITH ALL REFRIGERANT AND DRAIN PIPING SYSTEMS. VERIFY EXACT LOCATION WITH ARCHITECTURAL BID ALTERNATES.

CONTROLS LEGEND

CONTROLS SYMBOLS	DESCRIPTION
T	ROOM THERMOSTAT/TRANSMITTER – WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
MT	MOISTURE (HUMIDITY) TRANSMITTER
PT	PRESSURE TRANSMITTER
SPS	STATIC PRESSURE SENSOR
FT	FLOW TRANSMITTER
IT	CURRENT TRANSMITTER
CT	CONDUCTIVITY TRANSMITTER
SD	SMOKE DETECTOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDS	PRESSURE DIFFERENTIAL SWITCH
HS	HAND SWITCH (HAND–OFF–AUTO SWITCH)
ZC	VALVE OR DAMPER POSITION CONTROLLER
KR	LOCAL RECORDING TIME CLOCK (RUNTIME)
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
TSH	TEMPERATURE SWITCH, HIGH (FREEZESTAT)
LC	LEVEL CONTROLLER
LT	LEVEL TRANSMITTER
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
EPT	ELECTRONIC TO PNEUMATIC TRANSDUCER
AT CO2	CARBON DIOXIDE TRANSMITTER
AT CO	CARBON MONOXIDE TRANSMITTER
AT OC	OCCUPANCY SENSOR
LTCP	LOCAL TEMPERATURE CONTROL PANEL
HVAC	HVAC CONTROL PANEL
VSMC	VARIABLE SPEED MOTOR CONTROLLER
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
PC	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
SC	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
FC	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
FSH	FLOW SWITCH HIGH
FSL	FLOW SWITCH LOW
KC	TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE
	TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.)
A	SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS
	MOTOR STARTER
M	ELECTRIC OPERATED CONTROL DAMPER/OR VALVE

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

DUCTWORK SYMBOL	DESCRIPTION
F/S DPR N	COMBINATION FIRE/SMOKE DAMPER
2	POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERSCRIPT INDICATES NEGATIVE PRESSURE.
4 1/2	
	AUTOMATIC CONTROL DAMPER MODULATING
	AUTOMATIC CONTROL DAMPER TWO POSITION
	STAINLESS STEEL DUCT
	MANUAL SPLITTER DAMPER
45° SUPPLY	STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
45° RETURN	
	DUCT MOUNTED COIL (HOT WATER OR STEAM COIL)
	DUCT MOUNTED COIL (ELECTRIC)

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

DUCTWORK SYMBOL	DESCRIPTION
UP DN	SUPPLY DUCT (UP & DOWN)
UP DN	EXHAUST DUCT (UP & DOWN)
UP DN	RETURN DUCT (UP & DOWN)
	ROUND AND SQUARE 4–WAY CEILING DIFFUSERS
	SQUARE 3–WAY CEILING DIFFUSERS
	SQUARE 2–WAY CEILING DIFFUSERS
	SQUARE 1–WAY CEILING DIFFUSERS
	LINEAR SLOT DIFFUSER
	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE
N	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
	VANED ELBOW & AIR SPLIT TYPE DUCT TAKE–OFF
	CONNECT NEW DUCT TO EXISTING DUCT
R	INCLINED RISE, IN DIRECTION OF AIR FLOW
D	INCLINED DROP, IN DIRECTION OF AIR FLOW
	LIMIT OF DEMOLITION
FC	FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS)
10x8	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT WITH SOUND LINING
VD	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
BDD	BACK DRAFT DAMPER

NOTE : NOT ALL SYMBOLS SHOWN APPLY

MECHANICAL LEGEND

TERMINAL UNIT SYMBOL	DESCRIPTION
	CONVECTOR OR RADIATOR (RECESSED)
	CONVECTOR OR RADIATOR (WALL HUNG)
A FCU	FLOOR MOUNTED VERTICAL RECESSED FAN COIL UNIT. LETTER INDICATES UNIT SIZE.
A FCU	FLOOR MOUNTED VERTICAL CABINET FAN COIL UNIT. LETTER INDICATES UNIT SIZE.
A TWU	THRU WALL AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE.
A PTAC	WINDOW TYPE AIR CONDITIONING UNIT. LETTER INDICATES UNIT SIZE.
A PTAC	FLOOR MOUNTED HEAT PUMP. LETTER INDICATES UNIT SIZE.
AC–#	INDOOR WALL MOUNTED MIN–SPLIT HEAT PUMP
HP–#	OUTDOOR WALL MOUNTED MIN–SPLIT HEAT PUMP
	AIR CURTAIN
	UNIT HEATER (HORIZONTAL)
	UNIT HEATER (VERTICAL)
	2'x2' RADIANT CEILING PANEL
	2'x4' RADIANT CEILING PANEL

NOTE : NOT ALL SYMBOLS SHOWN APPLY

AIR TERMINAL SYMBOL	DESCRIPTION
	TERMINAL UNIT WITH REHEAT COIL
MB	DOUBLE DUCT MIXING BOX.
	FAN POWERED VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL.

NOTE : NOT ALL SYMBOLS SHOWN APPLY

FINAL CONSTRUCTION DRAWINGS
APPROVED FOR CONSTRUCTION

Dwg. File

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1 ADDENDUM #1	8/20/15

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Drawing Title: MECHANICAL LEGEND

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CONTRACT No. VA249–14–C–0150 P.O. No. 621C40254

Building Number: 160
Checked: STS
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