GENERAL NOTES:

A. LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.

B. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH VA AND ARCHITECT/ENGINEER. FIELD VERIFY LOCATION FOR ALL WIRELESS COMMUNICATION AND CONTROLLER DEVICES.

C. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER.

D. CLEARANCES SHALL BE MAINTAINED AROUND ELECTRICAL PANELS AND EQUIPMENT PER NEC.

E. NO TEMPERATURE SENSING CONTROL DEVICES SHALL BE LOCATED OVER HEAT PRODUCING DEVICES.

F. WHERE EQUIPMENT IS TO BE REMOVED/REPLACED/INSTALLED, ALL ADJACENT SURFACE FINISHES SHALL BE MAINTAINED. WHERE NECESSARY, REPAIR/PATCH WALLS AND FLOORS TO MATCH ADJACENT SURFACES.

G. CONTRACTOR SHALL REMOVE AND REPLACE CEILING TILES AND GRID AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK IN AREAS INDICATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED DUE TO THIS WORK.

H. COORDINATE ALL SHUT-DOWNS OF EXISTING SYSTEMS WITH VA PER SPECIFICATIONS. ALL SHUT-DOWNS SHALL OCCUR BETWEEN 4:00PM AND 11:00PM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.

I. ALL NOISE GENERATING OPERATIONS, INCLUDING CUTTING OF CEILINGS, WALLS AND FLOORS, CORING, DRILLING, ETC. SHALL BE SCHEDULED BETWEEN 4:00PM AND 11:00PM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.

J. INSTALL ALL EQUIPMENT TO BE DEAD LEVEL.

PROJECT SCOPE OF WORK NOTES:

A. THE PROJECT CONSISTS OF THE REPLACEMENT OF PNEUMATIC THERMOSTATS WITHIN THE VA WADE PARK FACILITY WITH NEW WIRELESS PNEUMATIC THERMOSTATS (WPTs) AND ASSOCIATED COMMUNICATION/NETWORK EQUIPMENT.

B. THE WIRELESS PNEUMATIC THERMOSTATS SHALL HAVE THE SAME FUNCTIONALITY AND CONTROL OF A DDC CONTROL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C. THE WPT SYSTEM SHALL BE NETWORKED TOGETHER USING WIRELESS REPEATER AND CONTROL BOX EQUIPMENT, WHICH CAN FUNCTION BOTH AS A STAND-ALONE CONTROL SYSTEM AND ALSO BE INTEGRATED INTO THE EXISTING ANDOVER AND TRIDIUM BUILDING AUTOMATION SYSTEMS.

D. PRIOR TO INSTALLATION, THE CONTRACTOR IS REQUIRED TO COORDINATE FREQUENCIES AND FULLY COMPLY WITH VA RESTRICTIONS AND RF INTERFERENCE POLICIES. COORDINATE WITH VA COR.

E. THE SYSTEM SHALL BE FULLY FUNCTIONING AND FULLY INTEGRATED INTO THE EXISTING ANDOVER BAS AND TRIDIUM BAS. EACH THERMOSTAT SHALL BE PROGRAMMED WITH FUNCTIONALITY SIMILAR TO AN ELECTRONICALLY CONTROLLED SYSTEM.

F. REFERENCE DRAWING 1-ME2 FOR THE SCOPE OF WORK AREAS OF THE BUILDING.

G. FLOOR PLAN DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF THE EXISTING THERMOSTATS TO BE REPLACED. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

H. FLOOR PLAN DRAWINGS INDICATE APPROXIMATE LOCATIONS AND QUANTITIES OF WIRELESS REPEATER AND CONTROLLER EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT IN ADDITION TO WHAT IS ILLUSTRATED IN ORDER TO CREATE A FULLY FUNCTIONAL SYSTEM.

I. WPT SYSTEM SHALL BE CAPABLE OF THE OPERATIONS/FUNCTIONALITY LISTED BELOW.
- TEMPERATURE SETPOINT POLICY
- PROGRAMMABLE SETBACKS W/ OCCUPANCY OVERRIDE
- DEADBAND TEMPERATURE POLICY

J. EACH NEW WPT SHALL BE PROGRAMMED BASED ON THE 'WPT IMPLEMENTATION SCHEDULE'. SEE DRAWING 1-ME1.

K. CONTRACTOR AND WPT MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE OWNER TRAINING OF SYSTEM. REFER TO SPECIFICATION SECTION 23 09 23.1

L. WPT INSTALLATION IS LIMITED TO WORK AT 'FLOOR LEVEL' (BELOW CEILING). THERMOSTATS SHALL BE REPLACED IN-PLACE REQUIRING MINIMAL INVASIVE WORK.

M. REPEATERS/CONTROLLERS INSTALLATIONS AND WIRING WILL REQUIRE ACCESS ABOVE CEILINGS. CONTRACTOR SHALL MAKE AN EFFORT TO LIMIT THIS WORK TO CORRIDORS OR SPACES THAT ARE NOT OCCUPIED BY PATIENTS. REFERENCE DRAWING 1-X1 FOR ADDITIONAL INFORMATION.

N. CONTRACTOR SHALL FURNISH TO THE VA THE FOLLOWING SPARE PARTS:
- TEN (10) WPT'S.
- TWO (2) REPEATERS.

O. VAV/WPT CALIBRATIONS SHALL BE STAGGERED TO MINIMIZE IMPACT TO OCCUPANTS.

COMMISSIONING NOTES:

A. THE CONTRACTOR SHALL WORK CLOSELY WITH THE PROJECT COMMISSIONING AGENT DURING CONSTRUCTION. THE COMMISSIONING AGENT SHALL BE HIRED INDEPENDENTLY BY THE VA.

B. THE COMMISSIONING SCOPE OF WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- FUNCTIONAL TESTING OF ALL EQUIPMENT.
- VERIFICATION OF WPT SYSTEM FUNCTIONALITY AND OPERATIONS.
- VERIFICATION OF TEMPERATURE CONTROLS AND SETBACK SCHEDULING.
- INTEGRATION OF WPT SYSTEM TO EXISTING ANDOVER BAS.
- INTEGRATION OF WPT SYSTEM TO EXISTING TRIDIUM BAS.
- COMMISSIONING OF SYSTEMS AS OUTLINED IN SPECIFICATION 01 91 00.
- ALL OTHER DUTIES DESCRIBED IN SPECIFICATION 01 91 00.

SYMBOLS:

ABBREVIATIONS:

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
CF	CENTRIFUGAL FAN
CD	COOLING COIL CONDENSATE
CO	CLEAN OUT
CFM	CUBIC FEET PER MINUTE
CUH	CABINET UNIT HEATER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CW	COLD WATER
Db	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
dB	DECIBELS
Dp	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EF	EXHAUST FAN
EX.	EXISTING
FC	FORWARD CURVED FAN
FLR.	FLOOR
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSEPOWER
HZ	ZONE HUMIDIFIER
LAN	LOCAL AREA NETWORK
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
NOM.	NOMINAL
OA	OUTDOOR AIR
PD	PRESSURE DROP
PF	PRE-FILTER
PH	PREHEAT
RA	RETURN AIR
REA	RELIEF AIR
RF	RETURN FAN
RH	REHEAT COIL
Rh	RELATIVE HUMIDITY
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
Sp. Gr.	SPECIFIC GRAVITY
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SS	STAINLESS STEEL
TCP	TEMPERATURE CONTROL PANEL
WPT	WIRELESS PNEUMATIC THERMOSTAT
X	EXISTING
XR	EXISTING TO BE REMOVED
XRL	EXISTING TO BE RELOCATED

CALL OUTS:

(#) REFERENCE TO CODED NOTE

CONTROL SYMBOLS:

(T) PNEUMATIC THERMOSTAT

FOR CONSTRUCTION

FULLY SPRINKLERED

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