



CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

ADDENDUM NO. 1

DATE: August 8, 2013

Contract 13-C-00039; Howard F. Curren AWTP Administration Building HVAC Control System

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: Electronic Control Valve Clarification: On pages N-1 and P-3, change the number of pneumatic operated water control valves to be replaced to (81) eighty-one.

Item 2: ACU-4 Clarification: Only controls for the future ACU-4 are to be provided under this contract. See attached revised plan sheet M1.

Item 3: Temporary Cooling Clarification: Temporary cooling measures shall be in place for the "LIMS" room before performing work in this room. See attached revised plan sheet M1 for requirements.

Item 4: Painting Clarification: Painting of piping shall be limited to areas where installation of water valves disturbs existing painted pipe. Paint to match existing. See attached revised plan sheet M1.

Item 5: Replace plan sheet M-1 with the attached plan sheet M-1.

Item 6: Attached for reference is the pre-bid meeting sign-in sheet.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor

HVAC ABBREVIATIONS	HVAC PIPING SYMBOL LEGEND	EQUIPMENT	SCOPE OF WORK
<p>AFF ABOVE FINISHED FLOOR AFR ABOVE FINISHED ROOF AHU AIR HANDLING UNIT AI ANALOG IN AO ANALOG OUT BOP BOTTOM OF PIPE BHP BRAKE HORSEPOWER BTU BRITISH THERMAL UNIT CT COOLING TOWER CFM CUBIC FEET PER MINUTE CU CONDENSING UNIT DI DIGITAL IN DO DIGITAL OUT DDC DIRECT DIGITAL CONTROLS DN DOWN EAT ENTERING AIR TEMPERATURE ESP EXTERNAL STATIC PRESSURE EWT ENTERING WATER TEMPERATURE FCU FAN COIL UNIT FF FINAL FILTERS FLA FULL LOAD AMPS FPM FEET PER MINUTE GPM GALLONS PER MINUTE KW KILOWATT LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE MBH THOUSAND BTUs PER HOUR MCA MINIMUM CIRCUIT AMPS MOCP MAXIMUM OVER CURRENT PROTECTION MOD MOTOR OPERATED CONTROL DAMPER (MOD) NC NORMALLY CLOSED NO NORMALLY OPEN NTS NOT TO SCALE OA OUTSIDE AIR OAL OUTSIDE AIR LOUVER PRV PRESSURE REDUCING VALVE PRS PRESSURE REDUCING STATION PSI POUNDS PER SQUARE INCH PSIG PSI GAUGE PTAC PACKAGED TERMINAL AIR CONDITIONER RA RETURN AIR RHC REHEAT COIL RPM REVOLUTIONS PER MINUTE SA SUPPLY AIR SP STATIC PRESSURE TSP TOTAL STATIC PRESSURE UNO UNLESS NOTED OTHERWISE VFH VOLTS/PHASE YAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE</p>	<p>CHWS CHILLED WATER SUPPLY CHWR CHILLED WATER RETURN CD CONDENSATE CR CONDENSATE RETURN PC PUMPED CONDENSATE HWR HOT WATER RETURN HWS HOT WATER SUPPLY FLOW DIRECTION GATE VALVE BALL VALVE CALIBRATING BALANCING VALVE BUTTERFLY VALVE GAS COCK UNION STRAINER CONTROL VALVE SOLENOID VALVE PSI REG. CHECK VALVE FLOW SWITCH FLEX CONNECTION S&Y GATE VALVE THREE-WAY CONTROL VALVE THERMOMETER P-TRAP TWO-WAY CHECK VALVE MANUAL VENT PRESSURE GAUGE ELBOW, TURNED DOWN ELBOW, TURNED UP TEE, OUTLET DOWN TEE, OUTLET UP</p>	<p>EXHAUST DUCT UP TO FAN ABOVE EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW INLINE CENTRIFUGAL FAN P-TRAP</p> <p>HVAC EQUIPMENT TAGS</p> <p>AHU-1 AIR HANDLING UNIT F-1 FAN RTU-1 ROOF TOP UNIT CU-1 CONDENSING UNIT VAV VARIABLE VOLUME BOX FPU-1 FAN POWERED VARIABLE VOLUME BOX EDH-1 ELECTRIC DUCT HEATER P-1 PUMP</p> <p>GENERAL</p> <p>REVISION REFERENCE DETAIL REFERENCE: TOP - DETAIL# BOTTOM - DRAWING SHOWN ON</p> <p>NEUTRAL RELATIVE PRESSURE POSITIVE RELATIVE PRESSURE NEGATIVE RELATIVE PRESSURE SHEET NOTE CALLOUT SHEET NOTE CALLOUT</p> <p>CONTROLS</p> <p>FAN OR PUMP THERMOSTAT/TEMPERATURE SENSOR HUMIDISTAT/HUMIDITY SENSOR MOTORIZED CONTROL DAMPER TEMPERATURE SENSOR PRESSURE SENSOR STARTER</p>	<p>SCOPE OF WORK</p> <p>THE FOLLOWING SCOPE OF WORK OUTLINES THE GENERAL WORK REQUIRED FOR THIS PROJECT. THIS SCOPE NARRATIVE IS GENERAL IN NATURE AND NOT INTENDED TO BE ALL INCLUSIVE OF WORK REQUIRED FOR SUCCESSFUL COMPLETION OF THIS PROJECT. THIS SCOPE NARRATIVE WILL NOT COVER ALL TASKS, MATERIALS, MEETINGS, COMPONENTS, AND EQUIPMENT. IT IS TO BE USED AS A REFERENCE AND GUIDE ONLY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND READING ALL CONTRACT DOCUMENTS INCLUDING ALL SPECIFICATIONS AND DRAWINGS.</p> <p>GENERAL: THE SCOPE OF THIS PROJECT IS TO REPLACE AND PROVIDE A NEW B&NET BUILDING AUTOMATION SYSTEM FOR EXISTING HVAC EQUIPMENT AT THE CITY OF TAMPA AVTP ADMINISTRATION BUILDING. EXISTING FRONT END STATION IS TO BE UPGRADED WITH NEW GRAPHICS WITH ALARM AND TRENDS CAPABILITY FOR INTEGRATION OF NEW SYSTEM. BASIS OF DESIGN IS IMC CONTROLS. TEST, ADJUST, AND BALANCE WILL BE REQUIRED FOR ALL EXISTING SYSTEMS.</p> <p>SHUTDOWNS: ALL HVAC SHUTDOWNS ARE LIMITED TO 4 HOURS PER OWNER DIRECTION AND MUST OCCUR DURING UNOCCUPIED HOURS SUCH AS NIGHTS AND WEEKENDS. COORDINATE SHUTDOWNS WITH OWNER'S PROJECT MANAGER AND PROVIDE MINIMUM 72 HOURS WRITTEN NOTICE.</p> <p>TEMPORARY COOLING: TEMPORARY COOLING MEASURES SHALL BE IN PLACE FOR THE "UNITS" ROOM BEFORE PERFORMING WORK IN THIS ROOM. IF WORK CAN BE PERFORMED WITHOUT SHUTDOWN OF THE EXISTING COMPUTER ROOM AIR CONDITIONER, THEN PROVIDE 3-TON TEMPORARY COOLING IF EXISTING COMPUTER ROOM AIR CONDITIONER IS ONLINE. IF WORK CANNOT BE PERFORMED WITHOUT SHUTDOWN OF THE EXISTING COMPUTER ROOM AIR CONDITIONER, THEN PROVIDE 6-TON TEMPORARY COOLING UNIT. SUBMIT TEMPORARY COOLING MEASURES FOR OWNER AND ENGINEER REVIEW BEFORE IMPLEMENTATION.</p> <p>CONTROL VALVES: EXISTING PNEUMATIC OPERATED WATER CONTROL VALVES FOR ALL SYSTEMS ARE TO BE REPLACED, BASED ON EXISTING BUILDING PLANS. FAN COIL UNITS 1, 2, 3, 4 AND ACU-2 HAVE NEWER CONTROL VALVES WITH ELECTRIC ACTUATORS. THESE ARE TO BE TESTED AND REUSED.</p> <p>PAINTING: PAINTING OF PIPING SHALL BE LIMITED TO AREAS WHERE INSTALLATION OF WATER VALVES DISTURBS EXISTING PAINTED PIPE. PAINT TO MATCH EXISTING.</p> <p>PNEUMATIC CONTROL PIPING: ALL EXISTING PNEUMATIC PIPING TO BE ABANDONED IN PLACE.</p> <p>AHU-4 CONDITIONS: AHU-4 IS NO LONGER IN OPERATION. HOWEVER, THE FUME HOODS THAT IT SERVED ARE STILL BEING UTILIZED. CONTROL POINTS AND SEQUENCES OF OPERATIONS ARE BEING PROVIDED FOR REFERENCE. AHU-4 IS TO BE REPLACED WITH A NEW AHU TO RESTORE PROPER AIR BALANCE WHEN THE FUME HOODS ARE IN OPERATION. AHU-4 AND AIR TERMINALS ASSOCIATED WITH AHU-4 IS TO BE REPLACED UNDER A SEPARATE CONTRACT WHICH WILL RUN CONCURRENT WITH THIS CONTRACT. IT IS ANTICIPATED THAT THE CONTRACT TO PROVIDE AHU-4 WILL BE IN PLACE BEFORE WORK OF THIS CONTRACT IS COMPLETED TO ALLOW THE CONTROLS FOR AHU-4 TO BE INSTALLED SO THAT THE AHU-4 SYSTEM CAN FUNCTION AS IT WAS ORIGINALLY INTENDED. IN THE EVENT THAT AHU-4 IS NOT INSTALLED PRIOR TO THE COMPLETION OF THE REMAINDER OF THE WORK OF THIS CONTRACT, THEN CONTROLS FOR AHU-4 SHALL BE INSTALLED AS SOON AS AHU-4 INSTALLATION IS COMPLETED AND APPROVED BY THE ARCHITECT/ENGINEER TO ALLOW CONTROL WORK TO BE PROVIDED.</p> <p>SYSTEM DESCRIPTIONS</p> <p>WATERSIDE: A CHILLED WATER SYSTEM AND A HEATING HOT WATER SYSTEM PROVIDE CHILLED WATER FOR COOLING AND HEATING HOT WATER FOR HEATING AND DEHUMIDIFICATION.</p> <p>CHILLED WATER SYSTEM THE CHILLED WATER SYSTEM CONSISTS OF TWO CHILLERS (AD-CLC-1 AND AD-CLC-2) IN PARALLEL CONFIGURATION WITH LEADLAG OPERATION THROUGH MANUAL CHILLER SWITCHOVER. CONSTANT FLOW PRIMARY PUMPS (AD-CPP-1A AND AD-CPP-1B) SERVE THE CHILLED WATER SYSTEM. CHILLED WATER PUMPS ARE IN PARALLEL CONFIGURATION WITH LEADLAG OPERATION THROUGH MANUAL PUMP SWITCHOVER. CONDENSER WATER SYSTEM CONSISTS OF A SINGLE CONDENSER WATER PUMP (AD-CWP-1) WITH MODULATING CONTROL VALVE. CONDENSER WATER IS PROVIDED BY AN EFFLUENT WATER SOURCE.</p> <p>HEATING HOT WATER SYSTEM CONTROL THE HEATING HOT WATER SYSTEM CONSISTS OF A SINGLE BOILER (AD-WHB-1) FEEDING A REHEAT WATER LOOP AND A SEPARATE HEATING HOT WATER LOOP. CONSTANT FLOW PRIMARY PUMPS (AD-HPP-1A AND AD-HPP-1B) SERVE THE REHEAT WATER LOOP SYSTEM. CONSTANT FLOW PRIMARY PUMPS (AD-HPP-2A AND AD-HPP-2B) SERVE THE HEATING HOT WATER LOOP SYSTEM. PUMPS IN EACH LOOP ARE IN PARALLEL CONFIGURATION WITH LEADLAG OPERATION THROUGH MANUAL PUMP SWITCHOVER.</p> <p>AIRSIDE - MAIN SYSTEMS: THREE MAIN AIR HANDLING UNITS SERVE THE OFFICE AREAS, THE MAIN LABORATORY, AND THE I.W. & BAY STUDY LABORATORIES.</p> <p>OFFICE AREAS A VARIABLE AIR VOLUME SYSTEM (ACU-1) AND AIR TERMINAL UNITS WITH REHEAT COILS SERVES THE OFFICE AREAS. ACU-1 SYSTEM CONSISTS OF A SUPPLY FAN AND RETURN FAN WITH VARIABLE FREQUENCY DRIVES. OUTSIDE, RETURN, AND RELIEF AIR CONTROL DAMPERS, REHEAT AND COOLING COILS WITH MODULATING CONTROL VALVES AND ZONE CHILLED WATER SECONDARY PUMP. CONSTANT VOLUME EXHAUST FANS AD-EAF-2 AND AD-EAF-3 SERVE THIS AREA.</p> <p>MAIN LABORATORY A 100% OUTDOOR AIR, CONSTANT VOLUME TWO-POSITION SYSTEM (ACU-2) WITH ZONE REHEAT COILS SERVE THE MAIN LABORATORY AREAS. ACU-2 SYSTEM CONSISTS OF A SUPPLY FAN WITH VARIABLE FREQUENCY DRIVE, OUTSIDE AIR CONTROL DAMPER, REHEAT AND COOLING COILS WITH MODULATING CONTROL VALVES AND ZONE CHILLED WATER SECONDARY PUMP. CONSTANT VOLUME EXHAUST FAN AD-EAF-4, CONSTANT VOLUME TWO-POSITION EXHAUST FANS AD-EAF-5, AD-EAF-6, AND AD-EAF-7 WITH EXHAUST AIR TERMINAL UNITS, AND CONSTANT VOLUME FUME HOOD EXHAUST FANS AD-EAF-11, AD-EAF-15, AD-EAF-21, AD-EAF-22, AND AD-EAF-25 SERVE THIS AREA. VARIOUS CONSTANT VOLUME FUME EXTRACTOR EXHAUST FANS ALSO SERVE THIS AREA. CONTRACTOR TO IDENTIFY AND UPGRADE DDC FOR THESE FANS.</p> <p>I.W. & BAY STUDY LABORATORIES A CONSTANT VOLUME TWO-POSITION SYSTEM (ACU-3) WITH ZONE REHEAT COILS SERVE THE I.W. & BAY STUDY LABORATORIES. ACU-3 SYSTEM CONSISTS OF A SUPPLY FAN AND RETURN FAN WITH VARIABLE FREQUENCY DRIVES, OUTSIDE, RETURN, AND RELIEF AIR CONTROL DAMPERS, REHEAT AND COOLING COILS WITH MODULATING CONTROL VALVES AND ZONE CHILLED WATER SECONDARY PUMP. CONSTANT VOLUME EXHAUST FAN AD-EAF-7 AND CONSTANT VOLUME TWO-POSITION EXHAUST FAN AD-EAF-4 WITH EXHAUST AIR TERMINAL UNIT SERVES THIS AREA.</p> <p>FUME HOOD SYSTEM A DEDICATED VARIABLE AIR VOLUME MAKE-UP AIR SYSTEM (ACU-4) WITH CONSTANT VOLUME TWO-POSITION AIR TERMINAL UNITS SERVE THE SWITCH OPERATED FUME HOODS LOCATED IN THE MAIN LABORATORY AND I.W. & BAY STUDY LABORATORIES. ACU-4 SYSTEM CONSISTS OF A SUPPLY FAN WITH VARIABLE FREQUENCY DRIVE, OUTSIDE AIR CONTROL DAMPER, BYPASS DUCT WITH BYPASS CONTROL DAMPER AND AIRFLOW MEASURING STATION, REHEAT AND COOLING COILS WITH MODULATING CONTROL VALVES AND ZONE CHILLED WATER SECONDARY PUMP. DEDICATED FUME HOOD EXHAUST FANS SERVE EACH FUME HOOD.</p> <p>AIRSIDE - MISCELLANEOUS SYSTEMS: THROUGHOUT THE BUILDING, A SERIES OF FAN COIL UNITS, HEATING WATER UNITS, AND EXHAUST FANS WITH T-STAT CONTROL SERVE VARIOUS AREAS. REFER TO REFERENCE PLANS FOR LOCATIONS.</p>
<p>GENERAL NOTES</p> <p>1. INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE. CONTRACTOR SHALL PROVIDE 72 HOUR WRITTEN NOTICE THAT THE SYSTEMS WILL BE OFF LINE.</p>	<p>CODE COMPLIANCE</p> <p>1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2010 FLORIDA BUILDING CODE.</p>		

No.	DATE	REVISIONS
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2		
1	08/07/13	ADDENDUM 1

DES:
 DRN:
 CKD:
 DATE: 07/05/13

E-Mail to Register as a Bidder and E-Mail All Questions to; ContractAdministration@tampagov.net

Sign-In Sheet Please Print

City of Tampa, Contract Administration Department

	Name	Organization	E-Mail OR Phone
1	Jody Gray	Tampa Contract Administration Dept.	jody.gray@tampagov.net
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