

1. EXAMINE THE COMPLETE SET OF CONTRACT DOCUMENTS TO ENSURE THAT THE WORK CAN BE CARRIED OUT WITHOUT SIGNIFICANT CHANGES TO THE INTENT OF THE DOCUMENTS. IF A REQUEST FOR ALLOWANCE SHALL BE MADE FOR CHANGES UNLESS THE DEPARTMENTAL REPRESENTATIVE HAS BEEN NOTIFIED IN WRITING OF ANY DISCREPANCIES OR INTERFERENCES, PRIOR TO THE CLOSING OF THE BIDDING PERIOD. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL INFORMATION REGARDING THE CONTROLS.
2. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, CONNECTIONS, SIZES, INVERTS, ETC. PRIOR TO COMMENCEMENT OF WORK.
3. AN ABC CERTIFIED (OR EQUIVALENT) BALANCE CONTRACTOR SHALL REBALANCE ALL OF THE AIR AND HYDRONIC SYSTEM FLOWS TO PROVIDE THE REQUIRED AIRFLOWS & FLUID FLOWS. NOTE THAT SOME EXHAUSTER GRILLES/REGISTER/GRILLES ARE NOT SHOWN ON THE DRAWINGS BUT ARE SHOWN IN THE ORIGINAL 2002 BALANCE REPORT WHICH IS IN SPECIFICATION APPENDIX "E". THE ORIGINAL 2002 BALANCE REPORT PROVIDES THE FOLLOWING: REBALANCE ALL INLETS, OUTLETS, DIFFUSERS, GRILLES, HYDRONIC FLUID FLOWS, ETC. TO THE DESIGN FLOWS SHOWN IN THE ORIGINAL 2002 BALANCE REPORT.
4. NEW THERMOSTATS CONNECTED TO THE BUILDING AUTOMATION SYSTEM SHALL BE PROVIDED WITH SETPOINT SETTABLE LOCKOUT CODES (ADJUSTABLE) TO PREVENT TAMPERING BY UNAUTHORIZED PEOPLE.
5. THE CONTRACTOR SHALL EMPLOY SKILLED ARCHITECTURAL SUB-CONTRACTORS FOR ALL CUTTING AND PATCHING.
6. IT IS CRITICAL THAT THE CONTRACTOR MAINTAINS THE EXISTING OPERATING AND MAINTENANCE ACCESS DURING OPERATIONAL DURING THE UPGRADE TO THE CONTROL SYSTEMS. REFER TO THE SPECIFICATION FOR PROPOSED PHASING.
7. ALL EXISTING BRANCH TAKEOFFS ON THE EXISTING HEATING PIPING LAYOUT PLAN ARE 19MM UNLESS NOTED OTHERWISE.
8. NOTE THAT EXISTING EQUIPMENT TO REMAIN AND BE REUSED IS SHOWN WITH A LIGHT GRAYSCALE LINE WHILE NEW AND REFURBISHED EQUIPMENT IS SHOWN WITH A "DARK" GRAYSCALE LINE.
9. NOTE THAT THE EXISTING CEILING SPACES ARE USED AS RETURN AIR PLENUMS AND THE WIRING NEEDS TO BE PLENUM RATED TO THE LATEST EDITION OF THE BUILDING/ELECTRICAL CODES. EXISTING THERMOSTATS (RELOCATED) SHALL BE INSTALLED WITH THE WIRING RUBBED UP/DOWN INTO THE CEILING SPACE AND THEN PLENUM RATED CABLE IS USED TO CONNECT TO THE LOW PRESSURE BY-PASS BOX TO CONTROL PANEL. EXISTING RELOCATED PLENUM PLUM WIRING NEEDS TO BE REMOVED NEW COMPLY WIRING IS PERMITTED TO BE INSTALLED IN A SIMILAR FASHION.
10. THE NEW NETWORK COMMUNICATION CABLE SERVING THE NEW CONTROL SYSTEM SHALL BE A DIFFERENT COLOUR (RED) FROM THE EXISTING NETWORK CABLE (BLUE) AND IT SHALL BE LABELED. IT SHALL BE INSTALLED EXPOSED IN THE CEILING SPACE AND PROPERLY SUPPORTED AT REGULAR INTERVALS.
11. NOTE THAT ALL CONDUIT, WIRING, DEVICES, EQUIPMENT AND MATERIAL THAT ARE NOT PARTS OF THIS PROJECT SHALL BE REMOVED.

- 1 EXISTING EQUIPMENT (FANS, HEATERS, PIPING, DUCTWORK, ETC.) SHOWN WITH A "LIGHT GRAYSCALE LINE" TO REMAIN. TYPICAL
- 2 APPROXIMATE LOCATION OF EXISTING SUMP PIT (EITHER WEEPING TILE OR SANITARY). PROVIDE HIGH LEVEL ALARM THAT IS MONITORED BY THE NEW BUILDING AUTOMATION SYSTEM. REFER TO SPECIFICATION APPENDICES FOR DETAILS.
- 3 APPROXIMATE LOCATION OF EXISTING THERMOSTAT WIRED TO CONTROL THE INDICATED EQUIPMENT. REMOVE EXISTING THERMOSTAT AND THE ASSOCIATED HYDRONIC HEATING SYSTEM CONTROL VALVE. REPLACE THEM WITH A NEW HYDRONIC HEATING SYSTEM CONTROL VALVE AND A THERMOSTAT THAT IS CONNECTED TO THE NEW BUILDING AUTOMATION SYSTEM AND ABLE TO BE CONTROLLED/MONITORED THRU IT.
- 4 APPROXIMATE LOCATION OF EXISTING THERMOSTAT WIRED TO CONTROL THE UNIT HEATER. REMOVE EXISTING THERMOSTAT AND REPLACE WITH NEW LINE VOLTAGE THERMOSTAT WIRED CONTROL THE UNIT HEATER.
- 5 APPROXIMATE LOCATION OF EXISTING MODULATING FULTON PROPANE FIRED PULSE COMBUSTION BOILER MODEL NUMBER PWH-300CM. REVISE BOILER CONTROLS TO ALLOW THE BOILER TO BE CONTROLLED/MONITORED THRU THE NEW BUILDING AUTOMATION SYSTEM. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL INFORMATION.
- 6 APPROXIMATE LOCATION OF EXISTING THREE STAGE CALORITECH ELECTRIC BOILER MODEL NUMBER VWBF-110-72CM/VWB-2-72. REVISE BOILER CONTROLS TO ALLOW THE BOILER TO BE CONTROLLED/MONITORED THRU THE NEW BUILDING AUTOMATION SYSTEM. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL INFORMATION.
- 7 APPROXIMATE LOCATION OF EXISTING HYDRONIC HEATING SYSTEM PUMPS. REVISE PUMP CONTROLS TO ALLOW THE PUMPS TO BE CONTROLLED/MONITORED THRU THE NEW BUILDING AUTOMATION SYSTEM. PROVIDE CURRENT SENSING RELAY FOR DETERMINING PUMP STATUS. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL INFORMATION.
- 8 APPROXIMATE LOCATION OF EXISTING HUMIDISTAT WIRED TO CONTROL THE EXHAUST FAN. REMOVE EXISTING HUMIDISTAT AND REPLACE WITH NEW LINE VOLTAGE HUMIDISTAT WIRED CONTROL THE EXHAUST FAN.
- 9 APPROXIMATE LOCATION OF EXISTING THERMOSTAT WIRED TO CONTROL THE TRANSFER FAN. REMOVE EXISTING THERMOSTAT AND REPLACE WITH NEW LINE VOLTAGE THERMOSTAT WIRED CONTROL THE TRANSFER FAN.
- 10 APPROXIMATE LOCATION OF EXISTING NAILOR LOW PRESSURE BYPASS BOX MODEL A3400 COMPLETE WITH NAILOR 'E5' 24 VAC ANALOG CONTROLS. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL INFORMATION. NOTE THAT EACH BOX HAS 120V/1- PHASE POWER WIRED TO IT AND IS CONNECTED WITH A 4-15 AMP 24V TRANSFORMER THAT IS PERMITTED TO BE REFERRED TO POWER THE NEW CONTROLS IF SUITABLE. REFER TO MAIN FLOOR PLAN FOR LOCATION OF THERMOSTAT CONTROLLING TRANSFER BOX. REMOVE EXISTING HYDRONIC HEATING SYSTEM CONTROL VALVES SERVING THE ASSOCIATED HYDRONIC RADIATION/RADIANT PANELS. REMOVE EXISTING THERMOSTAT AND ANALOG CONTROLS SERVING THE LOW PRESSURE BYPASS BOX AND REPLACE THEM WITH A NEW HYDRONIC HEATING SYSTEM CONTROL VALVE THAT IS CONNECTED TO THE NEW BUILDING AUTOMATION SYSTEM AND ABLE TO BE CONTROLLED/MONITORED THRU IT. ALSO REPLACE THE ASSOCIATED EXISTING HYDRONIC HEATING SYSTEM CONTROL VALVES SERVING THE TRANSFER BOXES, REBLENCE AIR & GLYCOL FLOWS. TYPICAL

