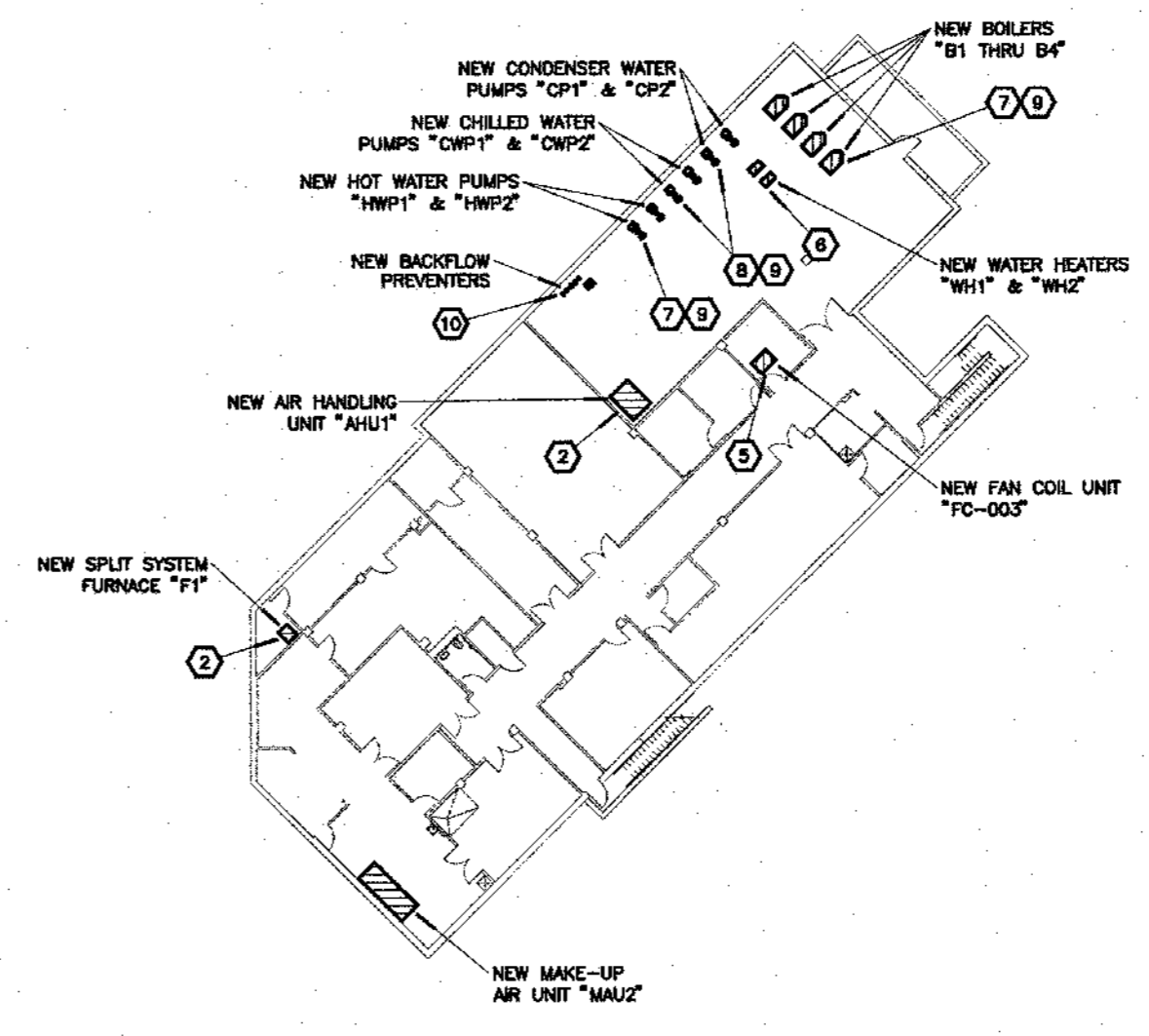


NOTES:

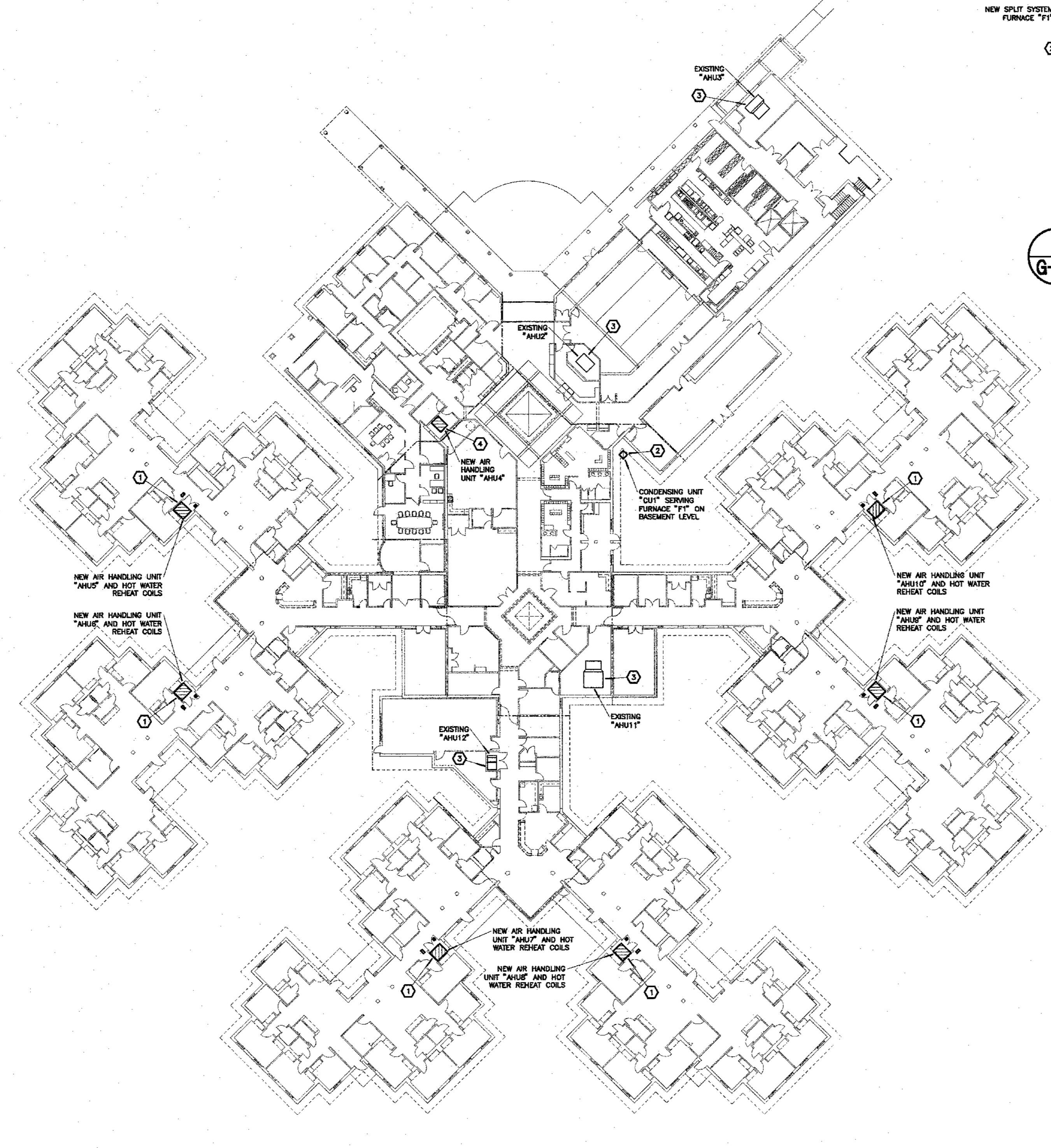
- AIR HANDLING UNITS "AHU1" THRU "AHU10" SERVING THE CLIENT WINGS SHALL BE INSTALLED WHILE THE CLIENT WING IS IN OPERATION AND FULLY OCCUPIED. THE AIR HANDLING SYSTEMS ARE THE PRIMARY SOURCE OF MECHANICAL VENTILATION AND DOWNTIME SHALL BE KEPT TO A MINIMUM. FAN COIL UNITS LOCATED IN EACH CLIENT ROOM WILL PROVIDE TEMPERATURE CONTROL FOR EACH CLIENT ROOM. HOWEVER, THE CORE SPACES IN EACH CLIENT WING WILL NOT HAVE ANY HEATING OR COOLING WHEN THE AIR HANDLER IS DISABLED. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE AIR HANDLER. THE AIR HANDLER DOWNTIME SHALL BE A MAXIMUM OF TWENTY-ONE (21) CONTINUOUS CALENDAR DAYS AND ALL ASSOCIATED WORK SHALL BE SUBSTANTIALLY COMPLETE IN THIS SINGLE SHUT DOWN. WORK IS NOT RESTRICTED TO ANY SPECIFIC TIME OF THE YEAR; HOWEVER, THE CONTRACTOR SHALL PROVIDE MEANS FOR TEMPORARY HEATING AND COOLING AS REQUIRED TO MAINTAIN THE CLIENT WINGS AT A TEMPERATURE RANGE OF 65 F - 80 F AT ALL TIMES.
- AIR HANDLING UNITS "AHU11" AND FURNACE "F1" SHALL BE INSTALLED WHILE THE AREA SERVED IS IN OPERATION AND FULLY OCCUPIED. THE AIR HANDLING SYSTEMS ARE THE PRIMARY SOURCE OF HEATING AND COOLING FOR THE BASEMENT LEVEL AND DOWNTIME SHALL BE KEPT TO A MINIMUM. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE AIR HANDLER. THE AIR HANDLER DOWNTIME SHALL BE A MAXIMUM OF TWENTY-ONE (21) CONTINUOUS CALENDAR DAYS AND ALL ASSOCIATED WORK SHALL BE SUBSTANTIALLY COMPLETE IN THIS SINGLE SHUT DOWN. WORK IS NOT RESTRICTED TO ANY SPECIFIC TIME OF THE YEAR; HOWEVER, THE CONTRACTOR SHALL PROVIDE MEANS FOR TEMPORARY HEATING AND COOLING AS REQUIRED TO MAINTAIN THE AREA SERVED AT A TEMPERATURE RANGE OF 65 F - 80 F AT ALL TIMES.
- AIR HANDLING UNITS "AHU12", "AHU13", "AHU14" AND "AHU15" ARE EXISTING TO REMAIN. ALL WORK ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE DAMPER ACTUATOR AND CORRECTION OF THE ECONOMIZER OPERATION SHALL BE PERFORMED BETWEEN THE HOURS OF 4:00 PM AND 8:00 PM ONLY, FULLY COORDINATE TIMING WITH THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE AIR HANDLER DAMPER OPERATION.
- AIR HANDLING UNIT "AHU16" SERVING THE ADMINISTRATION WING, UNIT SHALL BE INSTALLED WHILE THE AREA SERVED IS IN OPERATION AND FULLY OCCUPIED. THE AIR HANDLING SYSTEM IS THE PRIMARY SOURCE OF MECHANICAL VENTILATION AND DOWNTIME SHALL BE KEPT TO A MINIMUM. FAN COIL UNITS LOCATED IN EACH EXTERIOR ROOM WILL PROVIDE TEMPERATURE CONTROL FOR EACH THIS AREA. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE AIR HANDLER. THE AIR HANDLER DOWNTIME SHALL BE A MAXIMUM OF TWENTY-ONE (21) CONTINUOUS CALENDAR DAYS AND ALL ASSOCIATED WORK SHALL BE SUBSTANTIALLY COMPLETE IN THIS SINGLE SHUT DOWN. WORK IS NOT RESTRICTED TO ANY SPECIFIC TIME OF THE YEAR; HOWEVER, THE CONTRACTOR SHALL PROVIDE MEANS FOR TEMPORARY HEATING AND COOLING AS REQUIRED TO MAINTAIN THE ENTIRE AREA AT A TEMPERATURE RANGE OF 65 F - 80 F AT ALL TIMES.
- FAN COIL UNIT "FC-003" SHALL BE INSTALLED DURING THE SAME PERIOD THAT "AHU1" IS BEING REPLACED.
- UNDER ALTERNATE BID #1, THE NEW DOMESTIC HOT WATER BOILERS SHALL BE INSTALLED WHILE THE EXISTING WATER HEATER IS STILL IN OPERATION. THE CHANGE-OVER PERIOD FROM THE EXISTING WATER HEATER TO THE NEW WATER HEATERS SHALL BE KEPT TO A MINIMUM. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE EXISTING WATER HEATER. EQUIPMENT DOWNTIME SHALL BE A MAXIMUM OF FIVE (5) CONTINUOUS CALENDAR DAYS AND ALL ASSOCIATED WORK SHALL BE SUBSTANTIALLY COMPLETE IN THIS SINGLE SHUT DOWN. WHEN THE SYSTEM IS SHUT-DOWN THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ISOLATE THIS SYSTEM FROM THE WATER STORAGE SYSTEM AND OPEN THE LOW TEMPERATURE SYSTEM TO THE COMMON STORAGE SYSTEM.
- UNDER ALTERNATE BID #3, MECHANICAL HOT WATER HEATING SYSTEM SHALL BE DRAINED DOWN DURING THE COOLING SEASON. BOILER SYSTEM HOT WATER PUMPS AND ALL HOT WATER PIPING CHANGES SHALL BE PERFORMED DURING THE COOLING SEASON. ALL WORK SHALL BE PERFORMED, STARTING JUNE 1, 2018 AND SUBSTANTIALLY COMPLETE BY FEBRUARY 28, 2019. SINCE THE SYSTEM IS UTILIZED FOR REHEAT DURING THE COOLING SEASON, THE SYSTEM SHALL BE OUT OF COMMISSION FOR A MAXIMUM OF TWENTY-ONE (21) CONTINUOUS CALENDAR DAYS. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE HOT WATER SYSTEM. SINCE THERE WILL NOT BE ANY HOT WATER AVAILABLE FOR REHEAT, THE CONTRACTOR SHALL MONITOR THE AIR HANDLER DISCHARGE AIR TEMPERATURES AND ADJUST TO OPERATE SIMILAR TO A SINGLE ZONE SYSTEM.
- UNDER ALTERNATE BID #2, CHILLED WATER AND CONDENSER WATER SYSTEMS SHALL BE DRAINED DOWN DURING THE HEATING SEASON. CHILLED WATER PUMPS, CONDENSER WATER PUMPS AND ALL CHILLED WATER PIPING CHANGES SHALL BE PERFORMED DURING THE HEATING SEASON. ALL WORK SHALL BE PERFORMED, STARTING DECEMBER 1, 2018 AND SUBSTANTIALLY COMPLETE BY FEBRUARY 28, 2019. THE SYSTEM SHALL BE OUT OF COMMISSION FOR A MAXIMUM OF TWENTY-ONE (21) CONTINUOUS CALENDAR DAYS.
- CONTRACTOR SHALL COORDINATE WITH THE HVAC WATER TREATMENT CONTRACTOR PER SPECIFICATIONS SECTION 232500. ALL WATER TREATMENT SHALL BE COMPLETED BY THE SYSTEM SUBSTANTIAL COMPLETION DATE. TEST, ADJUST AND BALANCE REPORT FOR THE WATER SYSTEMS SHALL BE COMPLETE AND APPROVED BY THE OWNER PRIOR TO THE SUBSTANTIAL COMPLETION DATE OF EACH WATER SYSTEM.
- THE MAIN DOMESTIC WATER SYSTEM SHALL BE SHUT DOWN FOR A MAXIMUM OF FOUR (4) CONTINUOUS HOURS TO REPLACE THE MAIN BACKFLOW PREVENTER. ALL WORK SHALL BE PERFORMED BETWEEN 10:00 PM AND 4:00 AM. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO DISABLING THE DOMESTIC COLD WATER.

GENERAL NOTES:

- ALL GENERAL NOTES LISTED BELOW SHALL APPLY TO ALL SHEETS.
- FOR ALL PLUMBING OR HVAC QUESTIONS DURING BIDDING OR DURING CONSTRUCTION, CONTACT SCOTT VANDOREN, MFC. (417-881-0020). FOR ALL ELECTRICAL QUESTIONS DURING BIDDING OR DURING CONSTRUCTION, CONTACT TOMY BELL, MFC. (414-881-0020).
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL PLUMBING CODE.
- ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
- INFORMATION SHOWN ON THESE DRAWINGS REPRESENTS INFORMATION FROM EXISTING DRAWINGS AND LIMITED SITE OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO NEW CONSTRUCTION. MAINTAIN ALL FIRE RATINGS.
- CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- WHERE EXISTING AIR HANDLING UNITS ARE BEING REMOVED AND REPLACED, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AFFECTING WORK. PRIOR TO BID, CONTRACTOR SHALL OBTAIN A POSITIVE REVIEW OF THE NEW AIR HANDLER SUBMITTALS AND COORDINATION DRAWINGS. PRIOR TO COMMENCING WITH ANY RELATED DEMOLITION WORK.
- CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS AT A SCALE OF MINIMUM 1/2" = 1'-0". COORDINATION DRAWINGS AT A MINIMUM SHALL INCLUDE EACH AIR HANDLING ROOM INSTALLATION WITH AIR HANDLER DRAWN TO SIZE OF EQUIPMENT BEING INSTALLED FOR APPROVAL. ALONG WITH ALL RELATED SKELETAL WORK WITH ELEVATIONS, ALL DUCT SECTIONS AND ALL CHILLED AND HOT WATER PIPING, VALVING AND PUMPS. COORDINATION DRAWINGS SHALL INCLUDE ANY PROPOSED CHANGES TO EQUIPMENT LAYOUT, PIPING LAYOUT AND SHEET METAL LAYOUT REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM, WHILE PROVIDING FULL ACCESS TO THE EQUIPMENT PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- WHERE REPLACING EQUIPMENT POWERED EQUIPMENT, PRIOR TO ISSUING EQUIPMENT SUBMITTALS, CONTRACTOR SHALL CONFIRM EXISTING POWER VOLTAGE/PHASE/SERVING DEWASHED EQUIPMENT. IF POWER DOES NOT MATCH EQUIPMENT SCHEDULE, NOTIFY ARCHITECT/ENGINEER FOR REVIEW.
- IN ALL LOCATIONS WHERE WORK IS BEING PERFORMED ABOVE CEILING, CONTRACTOR SHALL REMOVE CEILING TILE, GRID, LIGHTS AND ALL CEILING DEVICES AS REQUIRED FOR DEMOLITION AND NEW WORK. RE-INSTALL ALL TILE, GRID, LIGHT FIXTURES AND CEILING DEVICES. ANY DAMAGED CEILING GRID SHALL BE REPLACED TO MATCH EXISTING.



**OVERALL/PHASING
 BASEMENT PLAN**
 2
 G-100 1/32" = 1' - 0" NORTH



OVERALL/PHASING FIRST FLOOR PLAN
 1
 G-100 1/32" = 1' - 0" NORTH

ALTERNATE BIDS:
 ALTERNATE BID NO. 1: REMOVE AND REPLACE EXISTING DOMESTIC HOT WATER HEATER WITH TWO NEW HOT WATER HEATERS. PROVIDE ALL ASSOCIATED POWER, PUMP, PIPING VALVING, FLEX CHANGES AND CONTROLS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. REFER TO SHEETS G-100, E-100, M-100, M-101, M-112, M-501, M-600, M-801 & M-802. REFER TO SPECIFICATIONS.
 ALTERNATE NO. 2: REMOVE AND REPLACE EXISTING CHILLED WATER PUMPS AND CONDENSER WATER PUMPS. PROVIDE ALL ASSOCIATED POWER, PIPING, VALVING AND CONTROLS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. REFER TO SHEETS G-100, E-100, E-600, M-100, M-101, M-112, M-501, M-501 & M-602. REFER TO SPECIFICATIONS.
 ALTERNATE NO. 3: REMOVE AND REPLACE EXISTING MECHANICAL HOT WATER BOILERS AND HOT WATER PUMPS. PROVIDE ALL ASSOCIATED POWER, PUMPS, PIPING, VALVING, INTAKE AND VENT PIPING AND CONTROLS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. REFER TO SHEETS G-100, E-100, E-600, M-100, M-101, M-112, M-501, M-501 & M-602. REFER TO SPECIFICATIONS.

FIRE WATCH REQUIREMENTS:
 1. WHERE ANY ZONE WITHIN A REQUIRED FIRE ALARM SYSTEM OR SPRINKLER SYSTEM IS TO BE OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE CONTRACTOR SHALL NOTIFY THE FACILITY REPRESENTATIVE NO LATER THAN 72 HOURS PRIOR. UNLESS OTHERWISE NOTED, CONTRACTOR PROVIDED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTS LEFT UNPROTECTED BY SHUTDOWN. THE CONTRACTOR PROVIDED FIRE WATCH SHALL CONTINUE UNTIL THE FIRE ALARM AND/OR SPRINKLER SYSTEM HAS BEEN RETURNED TO NORMAL OPERATING SERVICE. THE CONTRACTOR PROVIDED FIRE WATCH SHALL INCLUDE A DESIGNATED AND QUALIFIED PERSON, WHOSE SOLE RESPONSIBILITY IS TO MONITOR THE AFFECTED AREAS AND MUST PHYSICALLY MONITOR THE AFFECTED AREAS IN THEIR ENTIRETY ONCE EVERY FIFTEEN MINUTES UNTIL THE SYSTEM IS RETURNED TO NORMAL OPERATING FUNCTION. EACH VISUAL INSPECTION SHALL BE DOCUMENTED IN WRITTEN FORM AND PROVIDED TO THE FACILITY REPRESENTATIVE UPON THE COMPLETION OF THE FIRE WATCH. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THE CONTRACTOR PROVIDED FIRE WATCH.
 2. FOR THE PURPOSES OF THIS FIRE WATCH, A COMPLETE FIRE ALARM SYSTEM SHALL PROVIDE FUNCTIONS FOR INITIATION, NOTIFICATION, AND CONTROL. THESE SHALL PERFORM AS FOLLOWS:
 2.1. THE INITIATION FUNCTION PROVIDES THE INPUT SIGNAL TO THE SYSTEM.
 2.2. THE NOTIFICATION FUNCTION IS THE MEANS BY WHICH THE SYSTEM ADVISES THAT HUMAN ACTION IS REQUIRED IN RESPONSE TO A PARTICULAR CONDITION.
 2.3. THE CONTROL FUNCTION PROVIDES OUTPUTS TO CONTROL BUILDING EQUIPMENT TO ENHANCE PROTECTION OF LIFE.