

CONSULTANTS

OWNER **484 MULBERRY STREET
MACON, GEORGIA 31201
BIBB COUNTY SCHOOL DISTRICT**

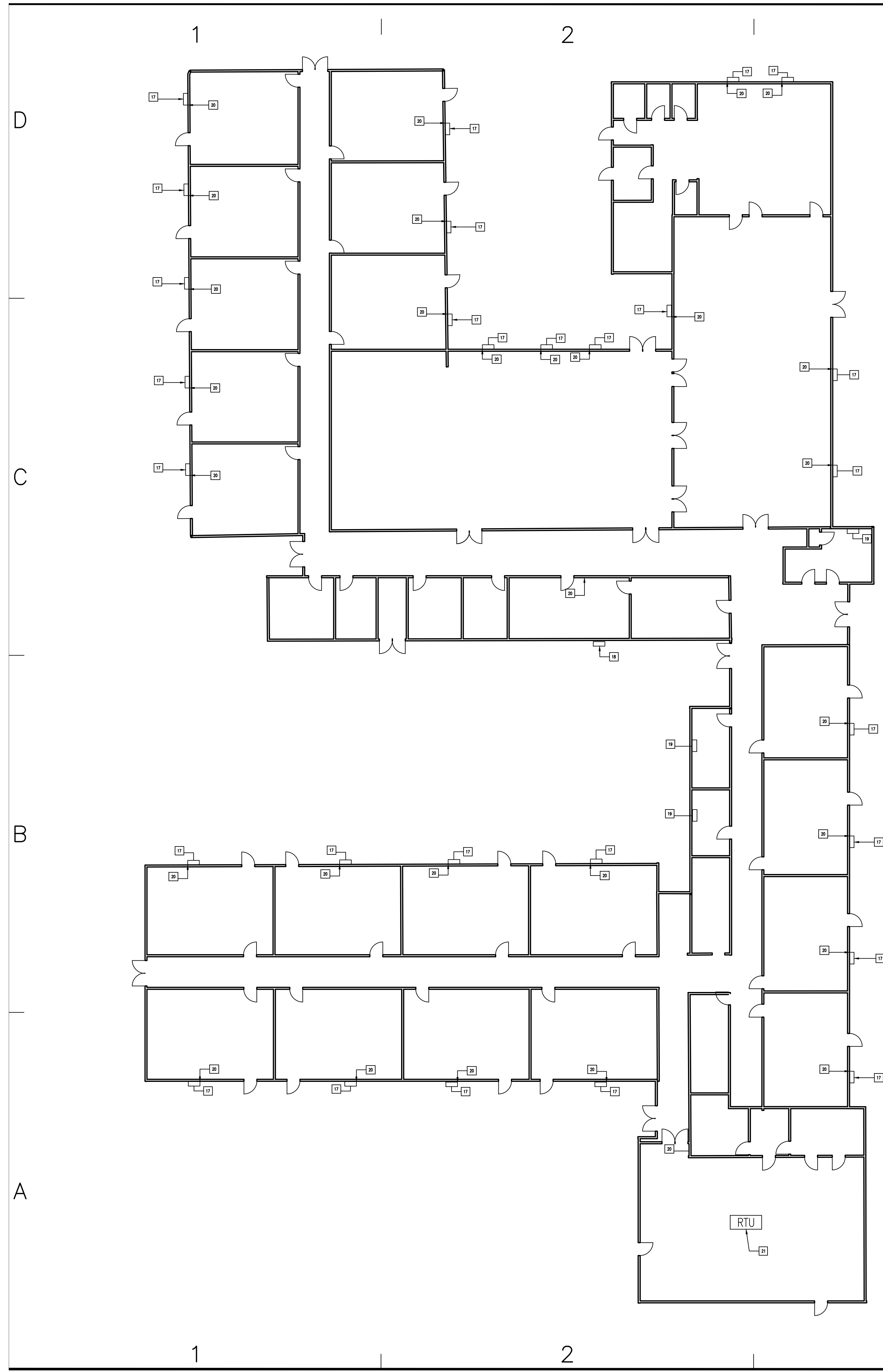
Bernd Elementary
 2017
 HVAC Upgrades

MARK	DATE	DESCRIPTION

PROJECT NO:
 CAD DWG FILE:
 DRAWN BY:
 CHK'D BY: **BERNDS HVAC DEMO.DWG**
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SHEET TITLE
**BERND ELEMENTARY
 MECHANICAL
 DEMOLITION PLAN**

SHEET **D1**
 OF



DEMO KEY NOTES: (THIS SHEET ONLY)

- (1) GENERAL: THIS DEMOLITION PLAN SHOWS MANY EXISTING TO REMAIN ITEMS. UNLESS SPECIFICALLY SHOWN AS REMOVED, ALL ITEMS ARE EXISTING TO REMAIN.
- (2) GENERAL: ANY WORK WHICH INTERFERES WITH THE OWNERS OPERATIONS OF THE SURROUNDING AREA AND ANY INTERRUPTION OF SERVICES, INCLUDING THE SHUTDOWN OF UTILITIES, SHALL BE PERFORMED AT A TIME APPROVED BY THE OWNER.
- (3) GENERAL: DUCT AND EQUIPMENT LOCATIONS SHOWN ARE BASED ON ORIGINAL DOCUMENTS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND EQUIPMENT LOCATIONS.
- (4) GENERAL: PRIOR TO COMMENCEMENT OF DEMOLITION WORK, CONTRACTOR IS TO INSPECT ALL AREAS IN WHICH WORK WILL BE PERFORMED. DOCUMENT SURROUNDING PROPERTIES WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM DEMOLITION WORK AND FILE WITH OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
- (5) GENERAL: DEMOLITION CONTRACTOR TO PROTECT ADJACENT AREAS FROM DUST, EXCESSIVE NOISE OR DISRUPTION OF OPERATION. ANY WORK UNDER THE CONTRACT THAT WILL INTERRUPT THE OWNER'S ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
- (6) GENERAL: ALL DEBRIS CAUSED BY DEMOLITION AND CONSTRUCTION SHALL BE CLEARED AND REMOVED FROM THE SITE BY CONTRACTOR.
- (7) GENERAL: ALL DEMOLITION WORK IS TO BE DONE IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND REGULATIONS.
- (8) GENERAL: PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO DEMOLITION WORK.
- (9) GENERAL: PROTECT EXISTING STRUCTURES, FINISHES, UTILITIES AND OTHER ITEMS SCHEDULED TO REMAIN. AREAS THAT ARE DAMAGED BY SELECTIVE DEMOLITION SHALL BE PATCHED AND REPAIRED AND FINISHED OR REPLACED TO MATCH EXISTING ADJACENT SURFACES AT NO ADDITIONAL COST TO THE OWNER.
- (10) GENERAL: CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL. SHOULD HIDDEN FIELD CONDITIONS REQUIRE MODIFICATIONS TO THE LAYOUT, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER.
- (11) GENERAL: IN ADDITION TO WORK SHOWN ALTERING EXISTING CONSTRUCTION THAT INTERFERES WITH NEW WORK TO THE EXTENT OF THE INTERFERENCE, CUT AND LATER PATCH ALL HOLES AND OPENINGS IN EXISTING CONSTRUCTION NECESSARY FOR CONNECTION OF NEW BUILDING WORK AND FOR THE PASSAGE OR CONNECTION OF ANY MECHANICAL AND ELECTRICAL UTILITIES AND SERVICES.
- (12) GENERAL: NOTIFY OWNER IF ANY EXISTING ITEM THAT CONFLICTS WITH THE INTENDED FINAL PRODUCT IS NOT SPECIFICALLY CALLED OUT HERE. CONTRACTOR TO NOTIFY OWNER OF ANY DISCREPANCIES IN THE DOCUMENTS AND FIELD CONDITIONS BEFORE PROCEEDING WITH DEMOLITION AND/OR CONSTRUCTION.
- (13) GENERAL: EXISTING DISCONNECTS, CONDUIT, J-BOXES, SWITCHES, ETC. SERVING REMOVED HVAC EQUIPMENT TO BE REMOVED BY CONTRACTOR.
- (14) GENERAL: CONTRACTOR SHALL REMOVE ALL SUPPORTS (BEAM CLAMPS, JOIST HANGERS, ANGLE IRON, UNISTRUT, DROP RODS, WALL BRACKETS, ETC.) FOR ALL REMOVED DUCTWORK AND EQUIPMENT.
- (15) GENERAL: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT SIZES.
- (16) GENERAL: CONTRACTOR SHALL REMOVE ALL SUPPORTS (BEAM CLAMPS, JOIST HANGERS, ANGLE IRON, UNISTRUT, DROP RODS, WALL BRACKETS, ETC.) FOR ALL REMOVED DUCTWORK AND EQUIPMENT.
- (17) REMOVE EXISTING WALL MOUNTED HEAT PUMP AND ASSOCIATED DUCTWORK. CAREFULLY SALVAGE AND STORE EXISTING SUPPLY AND RETURN GRILLES ON SITE FOR REUSE. SEE NEW WORK DRAWINGS FOR PLACE AND BE REUSED UNLESS OTHERWISE NOTED ON ELECTRICAL DRAWINGS, POWER CIRCUIT TO REMAIN IN PLACE AND BE REUSED.
- (18) REMOVE EXISTING WALL MOUNTED HEAT PUMP FROM OFFICE AREA. ALL ASSOCIATED DUCTWORK, EXISTING AIR SUPPLIES FANS AND RETURN GRILLES TO REMAIN IN TACT ABOVE CEILING FOR REUSE.
- (19) REMOVE THROUGH THE WALL PACKAGED TERMINAL AIR CONDITIONER/HEAT PUMP. ALL ELECTRICAL TO REMAIN IN PLACE FOR REUSE TO NEW UNIT.
- (20) REMOVE EXISTING THERMOSTAT/SENSOR FROM THIS APPROXIMATE LOCATION. CONTRACTOR SHALL BE ALLOWED TO RE-USE EXISTING WALL J-BOXES AND POWER / CONTROL WIRE IF NEW THERMOSTAT/SENSOR IS SHOWN INSTALLED IN EXACT SAME LOCATION AS REMOVED THERMOSTAT/SENSOR. SEE NEW WORK PLANS FOR LOCATION OF NEW SENSOR. WHEN NO NEW THERMOSTAT/SENSOR IS INSTALLED, REMOVE J-BOX AND IN FILL WITH MORTAR AND PAINT AS SPECIFIED. COVER PLATES WILL NOT BE ALLOWED.
- (21) REMOVE EXISTING RTAC FROM THIS APPROXIMATE LOCATION. EXISTING CONNECTING SUPPLY AND RETURN AIR DUCT RISING TO UNIT, ROOF CURB, AND POWER / CONTROL WIRE SHALL REMAIN IN PLACE AND BE REUSED AS INDICATED ON NEW WORK DRAWINGS.
- (22) THE BIBB COUNTY SCHOOL SYSTEM WILL BE RESPONSIBLE FOR ALL REMOVAL OF THE FREON FROM THE EQUIPMENT.

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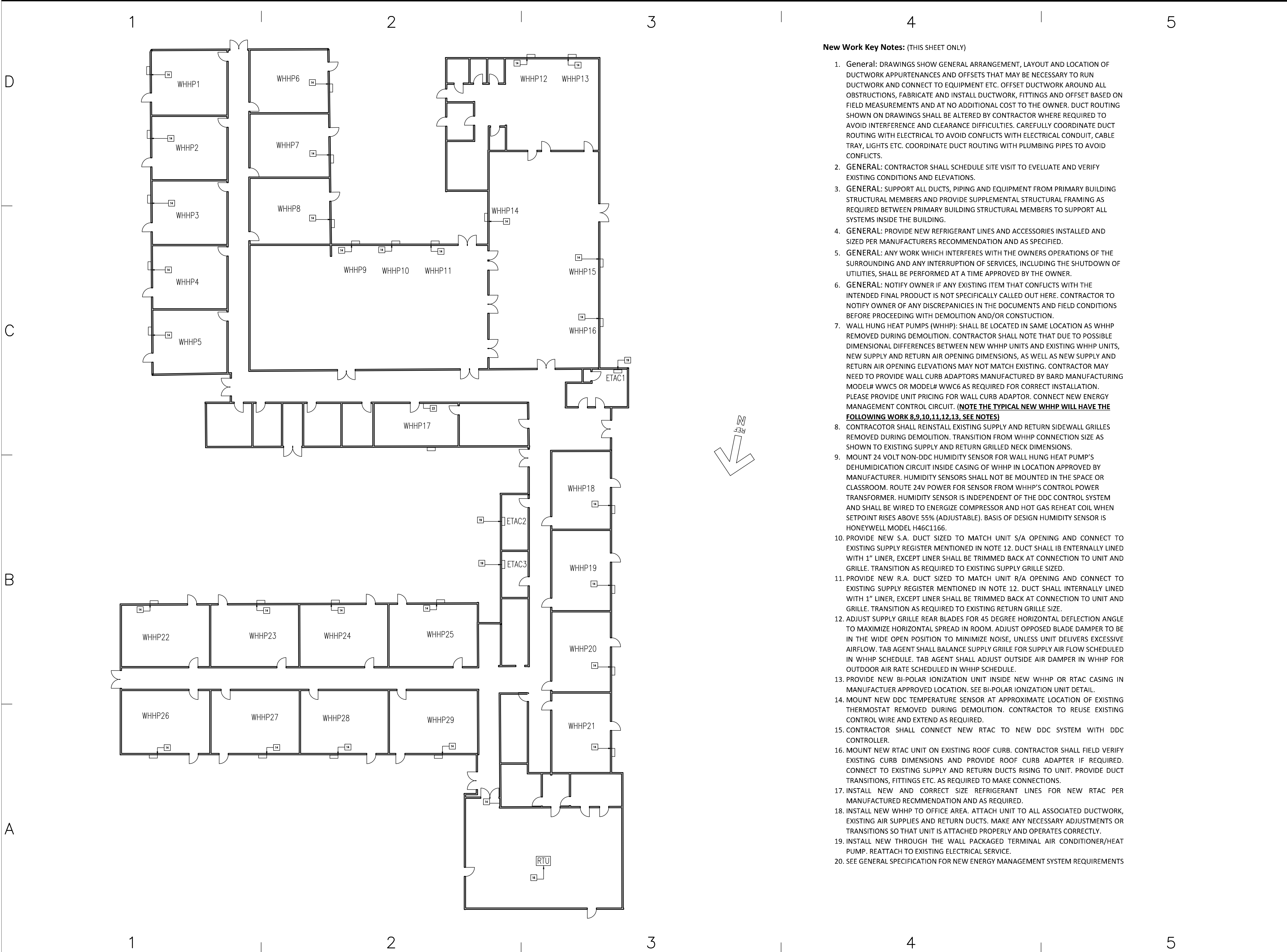
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SHEET TITLE
**BERND ELEMENTARY
MECHANICAL
NEW WORK**

SHEET **M1** OF



New Work Key Notes: (THIS SHEET ONLY)

1. **GENERAL:** DRAWINGS SHOW GENERAL ARRANGEMENT, LAYOUT AND LOCATION OF DUCTWORK APPURTENANCES AND OFFSETS THAT MAY BE NECESSARY TO RUN DUCTWORK AND CONNECT TO EQUIPMENT ETC. OFFSET DUCTWORK AROUND ALL OBSTRUCTIONS, FABRICATE AND INSTALL DUCTWORK, FITTINGS AND OFFSET BASED ON FIELD MEASUREMENTS AND AT NO ADDITIONAL COST TO THE OWNER. DUCT ROUTING SHOWN ON DRAWINGS SHALL BE ALTERED BY CONTRACTOR WHERE REQUIRED TO AVOID INTERFERENCE AND CLEARANCE DIFFICULTIES. CAREFULLY COORDINATE DUCT ROUTING WITH ELECTRICAL TO AVOID CONFLICTS WITH ELECTRICAL CONDUIT, CABLE TRAY, LIGHTS ETC. COORDINATE DUCT ROUTING WITH PLUMBING PIPES TO AVOID CONFLICTS.
2. **GENERAL:** CONTRACTOR SHALL SCHEDULE SITE VISIT TO EVALUATE AND VERIFY EXISTING CONDITIONS AND ELEVATIONS.
3. **GENERAL:** SUPPORT ALL DUCTS, PIPING AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS AND PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AS REQUIRED BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS TO SUPPORT ALL SYSTEMS INSIDE THE BUILDING.
4. **GENERAL:** PROVIDE NEW REFRIGERANT LINES AND ACCESSORIES INSTALLED AND SIZED PER MANUFACTURERS RECOMMENDATION AND AS SPECIFIED.
5. **GENERAL:** ANY WORK WHICH INTERFERES WITH THE OWNERS OPERATIONS OF THE SURROUNDING AND ANY INTERRUPTION OF SERVICES, INCLUDING THE SHUTDOWN OF UTILITIES, SHALL BE PERFORMED AT A TIME APPROVED BY THE OWNER.
6. **GENERAL:** NOTIFY OWNER IF ANY EXISTING ITEM THAT CONFLICTS WITH THE INTENDED FINAL PRODUCT IS NOT SPECIFICALLY CALLED OUT HERE. CONTRACTOR TO NOTIFY OWNER OF ANY DISCREPANCIES IN THE DOCUMENTS AND FIELD CONDITIONS BEFORE PROCEEDING WITH DEMOLITION AND/OR CONSTRUCTION.
7. **WALL HUNG HEAT PUMPS (WHHP):** SHALL BE LOCATED IN SAME LOCATION AS WHHP REMOVED DURING DEMOLITION. CONTRACTOR SHALL NOTE THAT DUE TO POSSIBLE DIMENSIONAL DIFFERENCES BETWEEN NEW WHHP UNITS AND EXISTING WHHP UNITS, NEW SUPPLY AND RETURN AIR OPENING DIMENSIONS, AS WELL AS NEW SUPPLY AND RETURN AIR OPENING ELEVATIONS MAY NOT MATCH EXISTING. CONTRACTOR MAY NEED TO PROVIDE WALL CURB ADAPTORS MANUFACTURED BY BARD MANUFACTURING MODEL# WWC5 OR MODEL# WWC6 AS REQUIRED FOR CORRECT INSTALLATION. PLEASE PROVIDE UNIT PRICING FOR WALL CURB ADAPTOR. CONNECT NEW ENERGY MANAGEMENT CONTROL CIRCUIT. **(NOTE THE TYPICAL NEW WHHP WILL HAVE THE FOLLOWING WORK 8,9,10,11,12,13, SEE NOTES)**
8. **CONTRACTOR** SHALL REINSTALL EXISTING SUPPLY AND RETURN SIDEWALL GRILLES REMOVED DURING DEMOLITION. TRANSITION FROM WHHP CONNECTION SIZE AS SHOWN TO EXISTING SUPPLY AND RETURN GRILLED NECK DIMENSIONS.
9. MOUNT 24 VOLT NON-DDC HUMIDITY SENSOR FOR WALL HUNG HEAT PUMP'S DEHUMIDIFICATION CIRCUIT INSIDE CASING OF WHHP IN LOCATION APPROVED BY MANUFACTURER. HUMIDITY SENSORS SHALL NOT BE MOUNTED IN THE SPACE OR CLASSROOM. ROUTE 24V POWER FOR SENSOR FROM WHHP'S CONTROL POWER TRANSFORMER. HUMIDITY SENSOR IS INDEPENDENT OF THE DDC CONTROL SYSTEM AND SHALL BE WIRED TO ENERGIZE COMPRESSOR AND HOT GAS REHEAT COIL WHEN SETPOINT RISES ABOVE 55% (ADJUSTABLE). BASIS OF DESIGN HUMIDITY SENSOR IS HONEYWELL MODEL H46C1166.
10. PROVIDE NEW S.A. DUCT SIZED TO MATCH UNIT S/A OPENING AND CONNECT TO EXISTING SUPPLY REGISTER MENTIONED IN NOTE 12. DUCT SHALL BE INTERNALLY LINED WITH 1" LINER, EXCEPT LINER SHALL BE TRIMMED BACK AT CONNECTION TO UNIT AND GRILLE. TRANSITION AS REQUIRED TO EXISTING SUPPLY GRILLE SIZED.
11. PROVIDE NEW R.A. DUCT SIZED TO MATCH UNIT R/A OPENING AND CONNECT TO EXISTING SUPPLY REGISTER MENTIONED IN NOTE 12. DUCT SHALL BE INTERNALLY LINED WITH 1" LINER, EXCEPT LINER SHALL BE TRIMMED BACK AT CONNECTION TO UNIT AND GRILLE. TRANSITION AS REQUIRED TO EXISTING RETURN GRILLE SIZE.
12. ADJUST SUPPLY GRILLE REAR BLADES FOR 45 DEGREE HORIZONTAL DEFLECTION ANGLE TO MAXIMIZE HORIZONTAL SPREAD IN ROOM. ADJUST OPPOSED BLADE DAMPER TO BE IN THE WIDE OPEN POSITION TO MINIMIZE NOISE, UNLESS UNIT DELIVERS EXCESSIVE AIRFLOW. TAB AGENT SHALL BALANCE SUPPLY GRILLE FOR SUPPLY AIR FLOW SCHEDULED IN WHHP SCHEDULE. TAB AGENT SHALL ADJUST OUTSIDE AIR DAMPER IN WHHP FOR OUTDOOR AIR RATE SCHEDULED IN WHHP SCHEDULE.
13. PROVIDE NEW BI-POLAR IONIZATION UNIT INSIDE NEW WHHP OR RTAC CASING IN MANUFACTURER APPROVED LOCATION. SEE BI-POLAR IONIZATION UNIT DETAIL.
14. MOUNT NEW DDC TEMPERATURE SENSOR AT APPROXIMATE LOCATION OF EXISTING THERMOSTAT REMOVED DURING DEMOLITION. CONTRACTOR TO REUSE EXISTING CONTROL WIRE AND EXTEND AS REQUIRED.
15. CONTRACTOR SHALL CONNECT NEW RTAC TO NEW DDC SYSTEM WITH DDC CONTROLLER.
16. MOUNT NEW RTAC UNIT ON EXISTING ROOF CURB. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE ROOF CURB ADAPTER IF REQUIRED. CONNECT TO EXISTING SUPPLY AND RETURN DUCTS RISING TO UNIT. PROVIDE DUCT TRANSITIONS, FITTINGS ETC. AS REQUIRED TO MAKE CONNECTIONS.
17. INSTALL NEW AND CORRECT SIZE REFRIGERANT LINES FOR NEW RTAC PER MANUFACTURED RECOMMENDATION AND AS REQUIRED.
18. INSTALL NEW WHHP TO OFFICE AREA. ATTACH UNIT TO ALL ASSOCIATED DUCTWORK, EXISTING AIR SUPPLIES AND RETURN DUCTS. MAKE ANY NECESSARY ADJUSTMENTS OR TRANSITIONS SO THAT UNIT IS ATTACHED PROPERLY AND OPERATES CORRECTLY.
19. INSTALL NEW THROUGH THE WALL PACKAGED TERMINAL AIR CONDITIONER/HEAT PUMP. REATTACH TO EXISTING ELECTRICAL SERVICE.
20. SEE GENERAL SPECIFICATION FOR NEW ENERGY MANAGEMENT SYSTEM REQUIREMENTS

