1. NEW CONCRETE EQUIPMENT PAD. REF DETAIL 5/S2-00
2. EXISTING 2" COMPOSITE DECK WITH 3 1/2" CONCRETE Topping (5 1/2" TOTAL).
3. REFER TO 4/S-200 FOR TYPICAL DECK OPENING FRAMING
4. CONTRACTOR TO FIELD VERIFY TOP OF EXISTING ROOF JOISTS.
5. EXISTING 6" GYPSUM FILL ON 1" FORMBOARD, VIF.
6. DEMO ALL STEEL AND PATCH ALL ROOFING AS REQUIRED.

NOTES:
- DO NOT REMOVE SUPPORTS UNTIL ALL WORK IS COMPLETED.
- COORDINATE EXACT SIZE AND LOCATION OF NEW AHU-4.
- INSTALLATION OF JOIST REINFORCEMENT AND NEW AHU CURB. ALL SUPPORTS TO BE PLACED PRIOR TO NEAREST PANEL POINT TO THE LOCATION OF THE NEW SUPPORTS SNUG TO BOTTOM CHORD OF JOIST AT CENTERLINES BELOW.
- CONTRACTOR TO VERIFY OPENINGS OCCUR BETWEEN CONTRACTOR TO FIELD VERIFY TOP OF EXISTING ROOF JOISTS.
- CONTRACTOR TO COORDINATE LOCATION AND EXTENTS WITH MECHANICAL.
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- CONFIRM THAT POSTS ALIGN OVER COLUMN DIAMETER), REFER TO 1/S-200 FOR DETAIL. CONTRACTOR TO VERIFY OPENINGS OCCUR BETWEEN CONTRACTOR TO VERIFY OPENINGS OCCUR BETWEEN
- DEMO ALL STEEL AND PATCH ALL ROOFING AS REQUIRED.
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- DEMO ALL STEEL AND PATCH ALL ROOFING AS REQUIRED.
- DO NOT REMOVE SUPPORTS UNTIL ALL WORK IS COMPLETED.
1. Remove existing roofing as required to install post on existing columns. Verify location of column centerlines on roof.

2. All posts shall be aligned to bear directly over existing building.

3. Steel post - CAP PLATE - REF PLAN

4. Equipment pad on existing slab on deck detail (AHU 11)

5. Joist reinforcement at AHU curb (AHU 4)

6. Bar joist reinforcement detail (AHU 4)

7. Roof opening and curb support detail (AHU 4, 11-T)

8. Typical cap plate with post detail (AHU 11-T)

9. Typical shear connection (AHU 11-T)

10. TYPICAL POST DETAIL (AHU 11-T)

11. Equipment pad on existing slab on deck detail (AHU 11)

12. Typical cap plate with post detail (AHU 11-T)

13. Typical shear connection (AHU 11-T)

14. Steel joist reinforcing schedule

15. MECHANICAL

16. VARIOUS BUMPS AND NOTES PER DETAIL SHEET
MECHANICAL GENERAL NOTES:

1. ORGANIZE INITIAL LOCATIONS OF EQUIPMENT, ELECTRONICS, PIPING, ETC, AND KEEP CHANGES TO THESE LOCATIONS MINIMAL TO PREVENT CONFLICTS, DAMAGE, AND ADDITIONAL COSTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE DESIGNER PRIOR TO INSTALLATION OF THE EQUIPMENT.
2. VERIFY ALL EXISTING CONDITIONS CONSIDERED TO BE OF SIGNIFICANT SAFETY OR PERFORMANCE CONCERN AS A RESULT OF THE IMAGES SHOWN OR IN THE REMARKS ON THE SHEET. ANY ADDITIONAL DETAILS SHOULD BE COLLECTED DURING CONSTRUCTION IN ORDER TO COMPLETE THE DESIGN.
3. PROVIDE APPROXIMATE LOCATION OF ALL MOUNTING POINTS. DUE TO THE COMPLEXITY OF THE INSTALLATION, THE BIDDER IS RESPONSIBLE FOR VERIFYING THE LOCATION OF MOUNTING POINTS AND PROVIDING ACCURATE MOUNTING INFORMATION TO THE GENERAL CONTRACTOR.
4. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING THE REMOVAL OR ALTERATION OF EXISTING SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND PROPER INSTALLATION OF ALL TEMPORARY CONNECTIONS.
5. VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

MECHANICAL PHASING NOTES:

1. PROJECT SHALL BE PERFORMED IN MULTIPLE PHASES AND THROUGHOUT DIFFERENT LOCATIONS.
2. MECHANICAL CONTRACTOR SHALL FABRICATE, INSTALL, AND BALANCE ALL SERVICES AND EQUIPMENT AS PER THE DRAWINGS AND SPECIFICATIONS.
3. INSTALLATION OF AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION.
4. TEMPORARY AIR HANDLING UNITS SHALL BE INSTALLED IN THE KITCHENS TO PROVIDE heating and cooling to the areas during the renovation process.
5. PROJECT CHIP CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-DEMO REPORT.
6. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP SYSTEMS IN SERVICE DURING PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.
7. NOTIFY THE CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY, AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
9. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING THE REMOVAL OR ALTERATION OF EXISTING SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND PROPER INSTALLATION OF ALL TEMPORARY CONNECTIONS.

MECHANICAL RENOVATION NOTES:

1. SHALL INCLUDE A DETAILED PLAN OF THE EXISTING AND NEW SYSTEMS, INCLUDING ALL APPROPRIATE MOUNTING POINTS AND CONNECTIONS.
2. SHALL INCLUDE A DETAILED PLAN OF THE EXISTING AND NEW SYSTEMS, INCLUDING ALL APPROPRIATE MOUNTING POINTS AND CONNECTIONS.
3. SHALL INCLUDE A DETAILED PLAN OF THE EXISTING AND NEW SYSTEMS, INCLUDING ALL APPROPRIATE MOUNTING POINTS AND CONNECTIONS.
4700 CFM OUTSIDE AIR L

OUTSIDE AIR DAMPERS TO BE CLOSED ONCE EXISTING UNIT IS TURNED OFF.

ONCE TEMPORARY UNIT IS IN PLACE AND DUCT CROSSOVER IS READY, CONNECT SUPPLY AIR AND RETURN AIR DUCTS COMING DOWN FROM TEMPORARY UNIT ON ROOF. CAP EXISTING DUCTWORK LEADING TO EXISTING AHU - 11. CROSS CONNECTION WORK TO HAPPEN DURING DOWN TIMES OF EMERGENCY DEPARTMENT AND SLEEP STUDY.

LEVEL 02 - MECHANICAL - AHU11 - PHASE 1
KEYNOTES:

1. TEMPORARY UNIT FOR AHU 11 SHALL BE PLACED ON TOP OF RAILS ON ROOF TO ALLOW ROOF DRAIN TO CONTINUE TO BE USED. THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF ALL TEMPORARY EQUIPMENT AND SHALL PROVIDE A 24/7 CONTACT IN THE EVENT THE EQUIPMENT FAILS TO OPERATE. THE UNIVERSITY OF MISSOURI WOMEN'S AND CHILDREN'S HOSPITAL WILL USE THE BAS SYSTEM TO MONITOR THE EQUIPMENT. THE CONTRACTOR SHALL RESPOND TO ANY EMERGENCY CALL FROM THE HOSPITAL AND BE ON SITE WITHIN 2 HOURS OF THE FIRST PHONE CALL TO TROUBLESHOOT AND REPAIR ANY TEMPORARY EQUIPMENT THAT FAILS TO OPERATE OR DOES NOT MEET THE UTILITY SYSTEM LOADS AS OUTLINED ABOVE.
## SPLIT SYSTEM UNIT SCHEDULE

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## TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

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<th>Description</th>
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## MOTOR OPERATED DAMPER SCHEDULE

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## GRILLES REGISTERS & DIFFUSERS SCHEDULE

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## RADIANT TUBE HEATER SCHEDULE

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## LOUVER SCHEDULE

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1. ROUTE PVC PIPING ACROSS ROOF TO A MINIMUM OF 25' AWAY FROM ANY AIR INTAKE.
LEVEL 02 - ELECTRICAL DEMOLITION - AHU11 - PHASE 2

KEYNOTES:
1. EXISTING FIRE ALARM SMOKE DETECTION DEVICES SHALL BE DEMOLISHED.
2. EXISTING AHU ELECTRICAL CIRCUIT SHALL REMAIN FOR USE WITH THE NEW RF AND HWP AHU11. REFER TO NEW WORK PLANS FOR SCOPE OF WORK.
3. EXISTING HEAT DETECTOR SHALL BE RELOCATED TO NEW ELEVATOR MACHINE ROOM CEILING. REFER TO NEW WORK PLANS FOR SCOPE OF WORK. EXISTING ELEVATOR DISCONNECT AND FIRE ALARM DEVICES SHALL REMAIN IN PLACE.
4. ELEVATOR DISCONNECT SHALL BE REPLACED WITH ELEVATOR SHUNT TRIP DISCONNECT. REFER TO NEW WORK PLANS FOR SCOPE OF WORK.
5. REMOVE AND REINSTALL EXISTING INDUSTRIAL STRIP LIGHTING AS REQUIRED TO COMPLETE DEMOLITION AND INSTALLATION OF NEW DUCTWORK.

GENERAL SHEET NOTES:
1. REFER TO ELECTRICAL COVERSHEET E-000 FOR ELECTRICAL SYMBOLS AND NOTES.

SCALE: 1/8" = 1'-0"
GENERAL SHEET NOTES:

1. REFER TO ELECTRICAL COVERSHEET E-000 FOR ELECTRICAL SYMBOLS AND NOTES.

KEYNOTES:

1. CIRCUIT TO VFD - AHU 4A IN ELECTRICAL ROOM 1084A. REFER TO SHEET E-101A.1 FOR VFD - AHU 4A LOCATION AND CONDUCTOR/CONDUIT REQUIREMENTS.

2. CIRCUIT TO SPARE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 'KEN' USING 2#12 & 1#12 GND IN 3/4" C.

3. CIRCUIT TO VFD - AHU 4B IN ELECTRICAL ROOM 1084A. REFER TO SHEET E-101A.1 FOR VFD - AHU 4B LOCATION AND CONDUCTOR/CONDUIT REQUIREMENTS.

4. REMOVE THREE (3) EXISTING SPARE 20A/1P CIRCUIT BREAKERS AND ADD ONE (1) 15A/3P CIRCUIT BREAKER IN EXISTING PANEL 'KEN'. CIRCUIT HEATING WATER PUMP HWP-AHU4 TO NEW 15A/3P CIRCUIT BREAKER USING 3#12 & 1#12 GND IN 3/4" C.

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

1/14/2020 12:12:42 PM

WOMEN'S AND CHILDREN'S HOSPITAL - AHU 4 AND 11 UPGRADE

18004255.00 / CP190691

PROJECT #: CP190691

WOMEN'S AND CHILDREN'S HOSPITAL

EXISTING PANEL 'KEN'

AHU 4 AND 11 UPGRADE