1. Install new thermostat & extend to new unit.
2. Existing return air register to remain. Existing return air duct up to roof to remain.
3. New EF-1 switch.
4. Provide new full size Krueger EGC return air grille with 1"x1"x1" cubes in place of existing supply diffuser.
5. Existing supply grille air balance to air flow noted.
6. 3/4" drain down from above.
9. Refer to thru wall fire damper detail 1-(M2.02).
10. Full size drain from unit with vented P-trap.
11. 3/4" drain down in wall, tie into tailpiece of lavatory/service sink. Provide chrome plated escutcheon at wall penetration.
12. Refer to interior soffit detail 2-(M2.02).
13. Supply grille to match existing.
14. Outside air grille to match existing.
15. 3/4" drain down.
16. OSA duct opening.
17. 8" x 8" OSA duct up.
18. Reroute plumbing vent piping below roof deck to new VTR location shown.

Fire Damper Detail

Clearance per manufacturer's instructions:
Angle iron 1-1/2" x 1-1/2"
16 gauge galvanized steel
Nuts or tack or spot welds at 6" on center or #10 sheet metal screws
Plain 'S' slip breakaway joint connection per manufacturer's instructions

Dynamic rated fire damper equal to Greenheck Model DFD-150X with factory sleeve.

Building A & D

Building A & D

Building A Only

Building A Only

Partially First Floor Plan - Buildings A & D

Partially Second Floor Plan - Buildings A & D

Partially Third Floor Plan - Buildings A & D

Fire Damper Detail

Interior Soffit Detail

1

2

M2.02
1. EXISTING HVAC TO BE DEMOLISHED AND RETURNED TO OWNER. REMOVE EXISTING WIRE FOR POWER AND CONTROLS BACK TO POINT OF CONNECTION AND MAINTAIN EXISTING CIRCUIT FOR THE INSTALLATION OF NEW MECHANICAL.

2. DAMAGED EXISTING WP RECEPTACLE. DISCONNECT AND RECONNECT WITH NEW WP RECEPTACLE AS REQUIRED.

3. EXISTING HEAT PUMP TO REMAIN.

**DEMOLITION KEY NOTES**

- 1. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND POWER CONNECTION LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- 2. PROVIDE N3R DISCONNECT SWITCH (RK5 FUSES PER MANUFACTURER'S RECOMMENDATIONS) AS SHOWN ON PLAN. VERIFY LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION ROUGH-IN. (TYPICAL)
- 3. EXISTING RECEPTACLE. PROVIDE NEW GFCI (WR RATED) AND WEATHERPROOF COVER.
- 4. MAINTAIN EXISTING CIRCUIT.
- 5. INTERCONNECTED WITH CORRESPONDING INDOOR UNIT. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

1. SEE E4.01 FOR TYPICAL ROOF DETAILS.

---

E1.01
1. Existing HVAC to be demolished and returned to owner. Remove existing wire for power and controls back to point of connection and maintain existing conduit for the installation of new mechanical.

2. Damaged existing WP receptacle. Disconnect and reconnect with new WP receptacle as required.

Demolition Notes

1. Coordinate exact locations of mechanical equipment and power connection locations with mechanical contractor prior to installation.

2. Provide N3R disconnect switch (RK5 fuses per manufacturer's recommendations) as shown on plan. Verify location with mechanical contractor prior to installation rough-in. (Typical)

3. Existing receptacle. Provide new GFCI (WR rated) and weatherproof cover.

4. Maintain existing circuit.

5. Interconnected with corresponding indoor unit. Mechanical drawings for additional information.

General Notes

1. See E4.01 for typical roof details.
KEY NOTES:
1. Coordinate exact locations of mechanical equipment and power connection locations with mechanical contractor prior to installation.
2. Provide NEMA 1 disconnect switch per manufacturer's recommendations as shown on plan. Verify location with mechanical contractor prior to installation rough-in.
3. Indoor unit fan motor power interconnected with outdoor unit. See roof plan for continuation and mechanical drawings for additional information.
4. Thermostat for HVAC controls. Provide control wires as indicated on mechanical drawings.
5. Location of existing electrical rooms shown for information only.
KEY NOTES:

1. Coordinate exact locations of mechanical equipment and power connection locations with mechanical contractor prior to installation.

2. Provide NEMA 1 disconnect switch per manufacturer's recommendations as shown on plan. Verify location with mechanical contractor prior to installation rough-in.

3. Indoor unit fan motor power interconnected with outdoor unit. See roof plan for continuation and mechanical drawings for additional information.

4. Thermostat for HVAC controls. Provide control wires as indicated on mechanical drawings.

5. Location of existing electrical rooms shown for information only.

UNLV DORMITORY HVAC AND ROOFING REPLACEMENT
BUILDINGS A AND D

ELECTRICAL SECOND FLOOR PLAN - BUILDING A

ELECTRICAL SECOND FLOOR PLAN - BUILDING D

DG KOCH ASSOCIATES
2000 S. JONES #110
LAS VEGAS, NV 89146
(702) 221-5160
FAX 221-5165

15031 UNLV DORMITORY HVAC AND ROOFING REPLACEMENT
BUILDING A AND D
BID DOCUMENTS

P:\2015_Jobs\15031 UNLV Dormitory HVAC and Roofing Replacement\DWG_BLDG DEPT\15031 PHASE 1 E202.dwg, 1/13/2016 12:09:29 PM
KEY NOTES:

1. Coordinate exact locations of mechanical equipment and power connection locations with mechanical contractor prior to installation.

2. Provide NEMA 1 disconnect switch per manufacturer's recommendations as shown on plan. Verify location with mechanical contractor prior to installation rough-in.

3. Indoor unit fan motor power interconnected with outdoor unit. See roof plan for continuation and mechanical drawings for additional information.

4. Thermostat for HVAC controls. Provide control wires as indicated on mechanical drawings.
KEY NOTES

1. EXISTING HVAC TO BE REMOVED AND RETURNED TO OWNER.
2. DISCONNECT CONDUITS FROM HVAC UNIT AND PULL WIRE BACK TO EXISTING POINT OF CONNECTION.
3. EXISTING JBOX TO BE REMOVED. DISCONNECT AND CAP CONDUIT AND ABANDON IN PLACE.
4. LEAVE SWITCH AND FUSE IN SWITCHBOARD AND LABEL AS SPARE.
5. DISCONNECT AND REMOVE EXISTING BREAKER AND FUSE IN PREPARATION FOR NEW PANEL.
KEY NOTES

1. RE-USE EXISTING 200A FUSE AND BREAKER.
2. CAP CONDUIT AND ABANDON IN PLACE ON THE ROOF.

GENERAL NOTES

A. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS. THE AIC RATING INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

B. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS IN COMPLIANCE WITH NEC 210-19(A) FPN NO. 4.

C. ALL EQUIPMENT SHOWN LIGHT ON THE SINGLE LINE DIAGRAM IS EXISTING AND TO REMAIN UNCHANGED UNLESS NOTED OTHERWISE.

KEY NOTES

1. MODIFY EXISTING BUS TO ACCEPT NEW BREAKER

GENERAL NOTES

A. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS. THE AIC RATING INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

B. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS IN COMPLIANCE WITH NEC 210-19(A) FPN NO. 4.

C. ALL EQUIPMENT SHOWN LIGHT ON THE SINGLE LINE DIAGRAM IS EXISTING AND TO REMAIN UNCHANGED UNLESS NOTED OTHERWISE.