Provide a penetration firestop system at each new penetration of existing rated walls required for new DDC FC bus and 24V control wiring per Spec Section 078413, or install EZ-Path Series 33 fire rated pathway, no substitutions. Refer to life safety plans G100 and G102 for existing rated wall locations. Utilize any existing penetration firestop system located in an existing rated wall in lieu of adding new if such device has capacity for more cables. Review with owner's representative prior to using existing penetration firestop system.
Provide a penetration firestop system at each new penetration of existing rated walls required for new DDC FC bus and 24V control wiring per Spec Section 078413, or install EZ-Path Series 33 fire rated pathway, no substitutions. Refer to Life Safety Plans G100 and G102 for existing rated wall locations. Utilize any existing penetration firestop system located in an existing rated wall in lieu of adding new if such device has capacity for more cables. Review with owner's representative prior to using existing penetration firestop system.
EXISTING AHU-3 I/O TEMPERATURE CONTROL PANEL
EXISTING AHU-1 TEMPERATURE CONTROL PANEL
EXISTING AHU-1 I/O TEMPERATURE CONTROL PANEL
EXISTING AHU-2 TEMPERATURE CONTROL PANEL
EXISTING AHU-2 AND EF-6 & 7 I/O TEMPERATURE CONTROL PANEL
EXISTING EXHAUST FAN 6 & 7 TEMPERATURE CONTROL PANEL
EXISTING HX TEMPERATURE CONTROL PANEL AT STAIR LANDING
EXISTING HX TEMPERATURE CONTROL PANEL AT STAIR LANDING
EXISTING AHU-3 TEMPERATURE CONTROL PANEL

ROOM 9E-04
ROOM 9W-04
ROOM 9W-01

AHU-1
AHU-2
AHU-3

FINAL FILTER SECTION
ACCESS DOOR

UMTH - MECHANICAL ROOF PLAN - NEW WORK
AHU-1
AHU-2
AHU-3

1 FINAL FILTER SECTION

EXISTING AHU-3 CONTROL PANEL
EXISTING AHU-2 CONTROL PANEL
EXISTING AHU-1 CONTROL PANEL

2 Exhaust Fan Control Panel

AHU-3 DOES NOT HAVE A FINAL FILTER SECTION

3 FINAL FILTER SECTION

ACCESS DOOR

16' 8'
4'
1'

SCALE: 1/8" = 1'-0"

MOI - FIFTH FLOOR PENTHOUSE PLAN NORTH - NEW WORK

SEAN M.K. KING
PE - 2009018741
DISCONNECT SWITCH REQUIRED, EXTERNALLY MOUNTED WITHIN 12 INCHES OF RIB POWER SUPPLY BY ELECTRICAL CONTRACTOR.

PRIMARY LINE INFO: 480/277/240/120 Vac, #12 AWG MINIMUM BY ELECTRICAL CONTRACTOR.

EACH SECONDARY OUTPUT LINE CAN POWER 3-5 VAV CONTROLLERS MAXIMUM (100 VA) BY MECHANICAL CONTRACTOR.

SECONDARY LINE INFO: 24 Vac, #12-26 AWG, 100 VA. MAX LENGTH 175 FEET USING #14 AWG BY MECHANICAL CONTRACTOR.

A SEPARATE 3 AMP FUSE IS REQUIRED WITHIN 3 FEET OF EACH VAV BY MECHANICAL CONTRACTOR.

ALL SECONDARY LINES MUST BE LABELED IN ENCLOSURE AS TO WHICH VAV'S THEY POWER PRIOR TO ENERGIZING POWER SUPPLY BY MECHANICAL CONTRACTOR.

ENCLOSED POWER SUPPLY MUST BE LOCATED IN EXISTING ELECTRICAL ROOMS AS INDICATED ON THE PLANS AND BE ACCESSIBLE. ANY OTHER LOCATION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

FILTERS DDC POINTS LIST

1. CONNECT POINTS TO VAV 9-009 CONTROLLER.

2. DDC PROGRAMming WILL BE DONE BY OWNER. COMMISSIONING WILL BE DONE BY CONTRACTOR.

3. CONTROLLER MUST HAVE A MINIMUM OF 18 INCHES OF ACCESSIBLE CLEARANCE.

4. CONTROLLER WILL BE OWNER FURNISHED AND CONTRACTOR INSTALLED. CONTROLLER WILL BE JCI MODEL MS-VMA-16XX SERIES.

5. FC COMMUNICATION BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 4 CONDUCTOR.

6. VAV SUPPLY TEMP SENSOR 1000 OHM PLATINUM RTD LOCATED APPROX. 8 FT. FROM VAV BOX DISCHARGE. PROVIDED, INSTALLED, & WIRED TO LOW VOLTAGE WIRE BY DIVISION 23. SEE ELECTRICAL DRAWINGS FOR SOURCE.

7. NETWORK SENSOR WILL BE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI NS SERIES.

8. PROGRAMMING WILL BE DONE BY OWNER.

9. CONTROLLER WILL BE EXPECTED TO WORK OUT THE DETAILS OF NORMALLY OPEN/NORMALLY CLOSED CONNECTIONS, EXACT EQUIPMENT REQUIREMENTS, ETC., TO THE CONTRACTOR. THE UNIVERSITY OF MISSOURI - COLUMBIA UTILIZES JOHNSON CONTROLS EQUIPMENT FOR THEIR CAMPUS ENERGY MANAGEMENT CONTROL SYSTEM (EMCS). NEW DDC CONTROLLERS WILL BE REQUIRED EVEN IF THE REQUIRED EQUIPMENT AND CONNECTIONS ARE NOT DEPICTED ON THESE DRAWINGS.

10. WRITTEN SEQUENCE OF OPERATION SHALL BE THE CRITERION USED TO JUDGE THE FINAL PERFORMANCE OF THE CONTROL SYSTEM. ALL FUNCTIONS IN THE SEQUENCE WILL BE REQUIRED EVEN IF THE REQUIRED EQUIPMENT AND CONNECTIONS ARE NOT DEPICTED ON THESE DRAWINGS.

11. FILTER CLIMATE CONTROLLERS ARE REQUIRED TO BE POWERED BY CONTRACTOR.