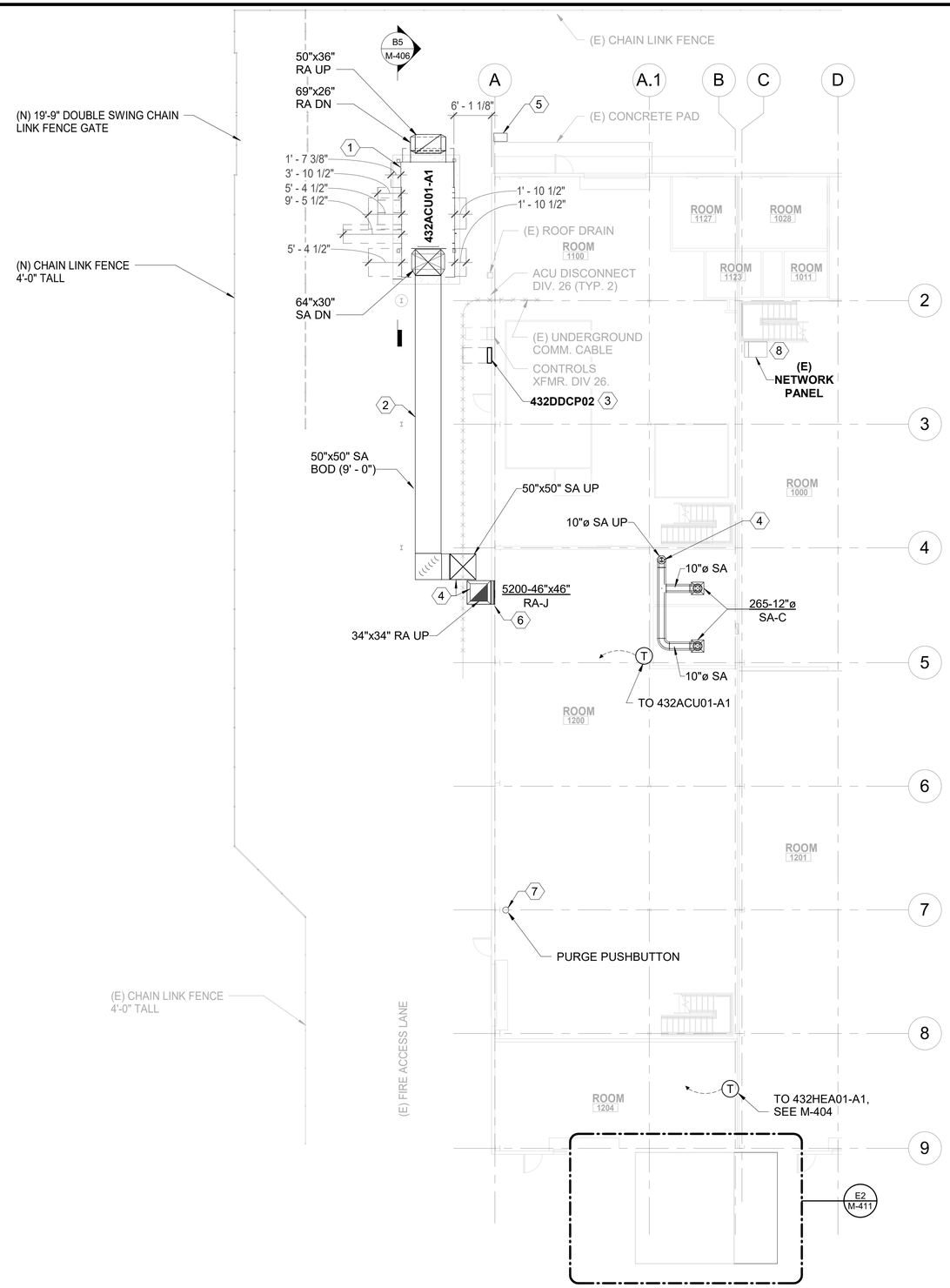

MECHANICAL ENLARGED 1ST FLOOR OPTICS LAB NEW CONSTRUCTION PLAN - DUCTWORK

F2
M-401

SCALE: 3/32" = 1'-0"

0 8' 16' 24'
3/32" = 1'-0"

KEYED NOTES

1. FURNISH AND INSTALL NEW HYDRONIC AIR HANDLING UNIT AT GRADE WITH NEW CONCRETE HOUSEKEEPING PAD. REFER TO S-402 FOR CONCRETE PAD AND FOR UNIT ANCHORAGE.
2. SECURE NEW SUPPLY AIR DUCTWORK TO NEW DUCT SUPPORT FRAMES. ROUTE WITH RETURN DUCT, RETURN STACKED ON TOP OF SUPPLY. REFER TO S-403.
3. FURNISH AND INSTALL NEW ALC UNIT CONTROLLER MOUNTED IN NEMA 4X RATED ENCLOSURE TO SERVE 432ACU01-A1. DAISY-CHAIN NEW 432DDCP01 WITH 432DDCP02 AND FURNISH AND INSTALL NEW HOME-RUN NETWORK CONNECTION TO EXISTING YELLOW NETWORK SWITCH IN ROOM 1000 AT GRIDLINE 4-C. REFER TO M-700 SERIES CONTROL DRAWINGS FOR ADDITIONAL CONTROLS REQUIREMENTS.
4. TO M-404.
5. FURNISH AND INSTALL NEW UNDERGROUND CONDENSATE SOAK PIT IN THIS LOCATION, REFER TO DETAIL D6 / M-505. EXTEND 432ACU01-A1 CONDENSATE TO THIS LOCATION, REFER TO DETAIL D3 / M-505. COORDINATE WITH EXISTING UNDERGROUND UTILITIES, REFER TO C-101.
6. ROUTE NEW RETURN DUCTWORK THROUGH NEW LOW-LEVEL WALL PENETRATION, INSTALL RETURN GRILLE AT 1" AFF TO CLEAR EXISTING STRUCTURAL FRAMING. REFER TO C6 / A-501. SUPPORT ELBOW AT GRILLE USING DURABLOCK SUPPORT ON CONCRETE PAD. REFER TO B5 / S-501.
7. INSTALL DEVICE ON EXISTING COLUMN.
8. EXISTING YELLOW NETWORK SWITCH.

GENERAL NOTES

1. REFER TO M-001 FOR MECHANICAL ABBREVIATIONS, LEGEND, SYMBOLS, AND GENERAL NOTES.
2. COMPONENTS SHOWN HALF-TONE ON THIS DRAWING ARE ITEMS TO REMAIN; BOLD COMPONENTS ARE NEW.
3. DASHED REGIONS AROUND EQUIPMENT INDICATE CLEARANCE REQUIRED FOR EQUIPMENT ACCESS AND MAINTENANCE.
4. INSTALL NEW 432ACU01-A1 CLEAR OF EXISTING FIRE LANE - MAINTAIN 24' CLEAR FOR FIRE LANE. COORDINATE REQUIRED LOCATION FOR ACU UNIT WITH SUBCONTRACTORS RESPOSIBLE FOR CIVIL WORK.
5. REFER TO STRUCTURAL DRAWINGS FOR DUCT SUPPORT AND EQUIPMENT ANCHORAGE DETAILS.
6. ALL INDOOR SUPPLY DUCT CONNNECTED TO 432ACU01-A1 MUST BE DOUBLE-WALL INSULATED DUCT. EXTERIOR DUCT MUST BE SINGLE-WALL, WRAPPED.
7. COORDINATE INSTALLATION OF NEW 432ACU01 AND HOUSEKEEPING PAD WITH CONSTRUCTION MANAGER. INTENT IS TO AVOID DISTURBING EXISTING COMM. CABLING WITH INSTALLATION PROCESS. HAND EXCAVATE EXCAVATION AREA WITHIN 5' OF EXISTING COMM. CABLING.
8. FURNISH AND INSTALL NEW BOLLARDS AROUND 432ACU01-A1 AND REMOVABLE BOLLARDS ON ACCESS SIDE. REFER TO C-101 AND C-502.
9. INSTALL ALL NEW CONTROL PANELS ON NEW, FREE-STANDING UNISTRUT SUPPORT STANDS. REFER TO S-512. FURNISH AND INSTALL REQUIRED ELECTRICAL CLEARANCES PER NEC.
10. INSTALLATION OF NEW INTERIOR DUCTWORK AND AIR TERMINALS WILL REQUIRE A DETAILED WORK PLAN DEVELOPED WITH INPUT FROM CONSTRUCTION MANAGER, SUBCONTRACTORS, AND FACILITY END-USERS. SUBCONTRACTOR MUST REVIEW EXISTING CONDITIONS AND DISCUSS ACCEPTABLE MEANS AND METHODS FOR NEW INSTALLATION WITH CONSTRUCTION MANAGER PRIOR TO BID. USAGE CONTINUITY OF END-USER LAB EQUIPMENT IN PROJECT AREA WILL REQUIRE COMPLETE INSTALLATION OF NEW COMPONENTS OVER A LONG WEEKEND, INCLUDE COSTS TO ACCOMPLISH THIS IN BID. CONSTRUCTION MANAGER TO COORDINATE TEMPORARY LAB EQUIPMENT REMOVAL

KEY PLAN

Sheet Title
MECHANICAL ENLARGED 1ST FLOOR OPTICS LAB NEW CONSTRUCTION PLAN - DUCTWORK

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