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| ABBREVIATIONS |                                   |
|---------------|-----------------------------------|
| AB            | ABOVE                             |
| AD            | ACCESS DOOR                       |
| AFF           | ABOVE FINISHED FLOOR              |
| BEL           | BELOW                             |
| BHP           | BRAKE HORSEPOWER                  |
| B.R.          | BOTTOM REGISTER                   |
| CLG           | CEILING                           |
| CONN          | CONNECT, CONNECTIONS              |
| DB            | DRY BULB                          |
| DIA           | DIAMETER                          |
| DN            | DOWN                              |
| DWG           | DRAWING                           |
| EA            | EACH                              |
| EFF           | EFFICIENCY                        |
| EL            | ELEVATION                         |
| ENT           | ENTERING                          |
| FF            | FINISHED FLOOR                    |
| FL            | FLOOR                             |
| FPM           | FEET PER MINUTE                   |
| FPS           | FEET PER SECOND                   |
| HP            | HORSEPOWER                        |
| HZ            | HERTZ (CYCLES PER SECOND)         |
| IOM           | INSTALLATION AND OPERATION MANUAL |
| KW            | KILOWATTS                         |
| LVG           | LEAVING                           |
| MBH           | THOUSANDS OF BTU PER HOUR         |
| MFR           | MANUFACTURER                      |
| NO.           | NUMBER                            |
| OAI           | OUTSIDE AIR INTAKE                |
| PH            | PHASE                             |
| PSIG          | POUNDS PER SQUARE INCH GAUGE      |
| RPM           | ROTATIONS PER MINUTE              |
| □             | SQUARE FEET                       |
| SP            | STATIC PRESSURE                   |
| △T            | TEMPERATURE DIFFERENCE IN °F.     |
| TYP           | TYPICAL                           |
| T.R.          | TOP REGISTER                      |
| V             | VOLTS                             |
| WB            | WET BULB                          |

| EQUIPMENT TAGS |                                |
|----------------|--------------------------------|
| TAG/NO         | DESCRIPTION                    |
| EAV/1          | EXHAUST AIR VALVE No.1         |
| EF/1           | EXHAUST FAN No.1               |
| HC/1           | DUCT MOUNTED HEATING COIL No.1 |
| VAV/1          | VARIABLE AIR VOLUME BOX No.1   |

NOTE: THE LETTER "X" BEFORE A TAG DENOTES EXISTING EQUIPMENT.

| DUCTWORK LEGEND |           |   |
|-----------------|-----------|---|
| SYMBOL          | ABBREV    | DESCRIPTION   |
|                 | N         | NECK SIZE   |
|                 | VD        | VOLUME DAMPER                                       |
|                 | MD        | MOTORIZED DAMPER                                    |
|                 | AM        | AIRFLOW MEASURING STATION                           |
|                 | FC        | FLEXIBLE CONNECTION                                 |
|                 |           | RISE OR DROP IN THE DIRECTION OF AIR FLOW           |
|                 |           | CEILING SUPPLY AIR DEVICE                           |
|                 |           | CEILING RETURN OR EXHAUST AIR DEVICE                |
|                 | AL        | ACOUSTICAL LINING                                   |
|                 |           | SIDE CONNECTED SUPPLY, RETURN OR EXHAUST AIR DEVICE |
|                 | DD        | DUCT DETECTOR                                       |
|                 | FD        | FIRE DAMPER   |
|                 | FSD       | FIRE SMOKE DAMPER                                   |
|                 | BS        | BOTTOM SPLIT SIZE                                   |
|                 | TS        | TOP SPLIT SIZE                                      |
|                 | EQS       | EQUAL SPLIT   |
|                 | TV        | TURNING VANES                                       |
|                 |           |   |
|                 | OAI       | OUTSIDE AIR INTAKE                                  |
|                 | SA        | SUPPLY AIR  |
|                 | TGFD      | BACK-TO-BACK TOP GRILLES WITH FIRE DAMPER           |
|                 |           |   |
|                 |           | LOUVERED DOOR                                       |
|                 |           | UNDER-CUT DOOR                                      |
|                 |           | THERMOSTAT  |
|                 |           |   |
|                 |           | OCCUPANCY SENSOR                                    |
|                 |           |   |
|                 |           | CARBON DIOXIDE SENSOR                               |
|                 |           |   |
|                 | AD(#-LxW) | ACCESS DOOR(# OF A.D. - LENGTH (IN) x WIDTH (IN))   |
|                 | WMS       | WIRE MESH SCREEN                                    |
|                 | CFM       | CUBIC FEET PER MINUTE                               |
|                 |           |   |
|                 |           | FUTURE EXTENSION OF CAPPED DUCTWORK                 |
|                 |           |   |

| PIPE SYSTEM LEGEND |                                    |
|--------------------|------------------------------------|
| SYMBOL             | DESCRIPTION                        |
|                    | CHWR CHILLED WATER RETURN          |
|                    | CHWS CHILLED WATER SUPPLY          |
|                    | DR DRAIN LINE                      |
|                    | HHGR HEATING HOT GLYCOL RETURN     |
|                    | HHGS HEATING HOT GLYCOL SUPPLY     |
|                    | HHWR HEATING HOT WATER RETURN      |
|                    | HHWS HEATING HOT WATER SUPPLY      |
|                    | HTWR HIGH TEMPERATURE WATER RETURN |
|                    | HTWS HIGH TEMPERATURE WATER SUPPLY |
|                    | RHWR REHEAT WATER RETURN           |
|                    | RHWS REHEAT WATER SUPPLY           |

| PIPING LEGEND |        |                                      |
|---------------|--------|--------------------------------------|
| SYMBOL        | ABBREV | DESCRIPTION                          |
|               | GA     | GATE VALVE                           |
|               | GL     | GLOBE VALVE                          |
|               | BF     | BUTTERFLY VALVE                      |
|               | BA     | BALL VALVE                           |
|               | CV     | 2-WAY CONTROL VALVE                  |
|               | PV     | PLUG VALVE                           |
|               | CH     | CHECK VALVE                          |
|               | PSR    | PRESSURE SAFTEY RELIEF VALVE         |
|               | TP     | TEMPERATURE PROBE                    |
|               | STR    | STRAINER WITH BLOW-OFF VALVE AND CAP |
|               | TH     | THERMOMETER                          |
|               | PG     | PRESSURE GAUGE                       |
|               | FPC    | FLEXIBLE PIPE CONNECTION             |
|               |        | CAP                                  |
|               | U      | UNION                                |
|               | CO     | CLEAN-OUT                            |
|               | RED    | CONCENTRIC REDUCER                   |
|               | HB     | HOSE BID                             |
|               |        | FLOW ARROW                           |
|               |        | BREAK                                |
|               |        | DROP                                 |
|               |        | 45° DROP                             |
|               |        | BOTTOM TAKE-OFF                      |
|               |        | VALVE DROP                           |
|               |        | PLUG VALVE IN DROP                   |
|               | FM     | FLOW METER                           |
|               |        | AIR VENT VALVE                       |
|               |        | THERMOWELL                           |
|               |        | ANCHOR                               |
|               |        | GUIDE                                |
|               | CBV    | CIRCUIT BALANCING VALVE              |
|               | BFP    | BACKFLOW PREVENTOR                   |
|               |        | BRAIDED EXPANSION LOOP               |
|               |        | BLIND FLANGE                         |
|               |        | IT DROP                              |

# PURCHASE COLLEGE

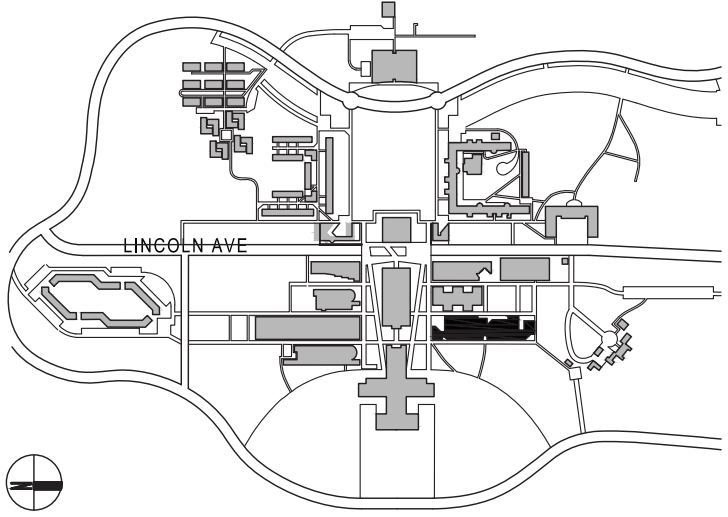
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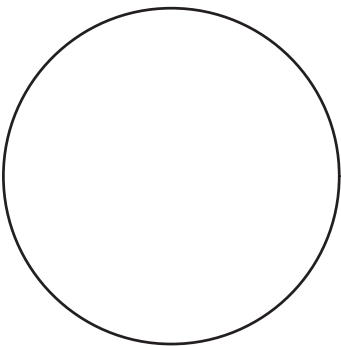


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## BID ISSUE

SEAL:



02 02.20.2024 ISSUED FOR BID  
01 12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

## MECHANICAL LEGENDS, NOTES & ABBREVIATIONS (SHEET 1 OF 2)

DRAWING NUMBER DRAWING 1 OF 13




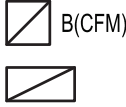



# M-001.00



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AIR DEVICE SCHEDULE

| TYPE | SYMBOL   | FACE SIZE                   | DESCRIPTION                          | CFM RANGE  | NECK SIZE                               |
|------|--|-----------------------------|--------------------------------------|--|---|
| A    |  A(CFM) | 24x24                       | FOUR WAY BLOW CEILING DIFFUSER       | 0-100<br>101-200<br>201-315<br>316-425<br>426-600<br>601-740 | 6"Ø<br>8"Ø<br>10"Ø<br>12Ø<br>14Ø<br>15Ø |
| A    |  A(CFM) | 24x24                       | THREE WAY BLOW CEILING DIFFUSER      | 0-140<br>141-220<br>221-315                                  | 8"Ø<br>10"Ø<br>12Ø                      |
| A    |  A(CFM) | 24x24                       | TWO WAY BLOW CEILING DIFFUSER        | 0-80<br>81-140<br>141-220<br>221-315                         | 8"Ø<br>10"Ø<br>12Ø<br>14Ø               |
| B    |  B(CFM) | 12x12<br>24x12<br>24x24     | RETURN OR EXHAUST REGISTER           | 0-400<br>401-1,100<br>1,101-1,880                            | 10x10<br>22x10<br>22x22                 |
| C    |  C(CFM) | SEE DRAWINGS                | RETURN REGISTER SIDEWALL             | SEE DRAWINGS   | SEE DRAWINGS                            |
| D    |  D(CFM) | 13.5" Ø<br>18" Ø<br>22.5" Ø | ROUND FOUR WAY BLOW CEILING DIFFUSER | 0-150<br>151-275<br>276-436                                  | 6" Ø<br>8" Ø<br>10" Ø                   |
| E    |  E(CFM) | SEE DRAWINGS                | RETURN OR EXHAUST REGISTER           | SEE DRAWINGS   | SEE DRAWINGS                            |

TYPE 'A' - TITUS MODEL OMNI FULL FACE (MODULE SIZE 24x24) STEEL AIR DEVICE WITH ROUND NECK, (LAY-IN TYPE), PROVIDE EQUALIZING GRID, AG-75 OPPOSED BLADE DAMPER, MOLDED INSULATION BLANKET AND DIRECTIONAL BLOW CLIPS AS REQUIRED. (ANEMOSTAT AS EQUAL)

TYPE 'B' - TITUS MODEL 350RL STEEL AIR DEVICE, WITH FIXED 3/4" SPACED BLADES, 35° DEFLECTION BORDER TYPE 3 FOR LAY-IN APPLICATION OR BORDER TYPE 1 FOR 10x10 NK., SURFACE MOUNT APPLICATION, MODEL AG-15 OPPOSED BLADE DAMPER. (ANEMOSTAT AS EQUAL)

TYPE 'C' - TITUS MODEL 350RS-SS RETURN AIR REGISTER WITH 3/4" FIXED SPACED 35 DEGREE DEFLECTION HORIZONTAL LOVERS AND OPPOSED BLADE DAMPER (NAILOR, ANEMOSTAT).

TYPE 'D' - TITUS MODEL R-OMNI FACE (SIZE 18" Ø) STEEL AIR DEVICE WITH FINISHED IN #84 BLACK ROUND NECK, PROVIDE EQUALIZING GRID, AG-75 OPPOSED BLADE DAMPER, MOLDED INSULATION BLANKET. (ANEMOSTAT AS EQUAL)

TYPE 'E' - TITUS MODEL SSBG STAINLESS STEEL LINEAR BAR GRILLE, 1/8" BARS SPACED 3/8" & Ø DEFLECTION, 1" FLANGE FRAME. (ANEMOSTAT AS EQUAL)

NOTES:

- PROVIDE EQUALIZING GRID AT ALL ROUND NECK TAKEOFFS FROM BRANCH RECTANGULAR DUCTWORK.
- PROVIDE SHOP DRAWINGS INCLUDING THROW DATA, NC VALUES, ETC.
- EXACT COLOR & FINISH FOR ALL AIR DEVICES SHALL BE SELECTED AND APPROVED BY ARCHITECT.
- COORDINATE AIR DEVICES/BORDER TYPE WITH ARCHITECTS CEILING GRID PRIOR TO RELEASE OF ORDER.
- EXACT LOCATION OF ALL AIR DEVICES TO BE AS PER ARCHITECTS REFLECTED CEILING PLAN.
- CONTRACTOR SHALL APPLY FLAT BLACK PAINT TO INTERIOR PORTIONS OF DUCT AND/OR GRILLES WHERE VISIBLE FROM FLOOR LEVEL.
- NC VALUE NOT TO EXCEED NC 25.

DUCTWORK CLASS

| SYSTEM   | DUCT PRESSURE CLASS | DUCT SEAL CLASS | DUCT LEAK CLASS<br>CFM/100SF |
|--|---------------------|-----------------|------------------------------|
| RECTANGULAR SUPPLY UPSTREAM VAV / DOWNSTREAM VAV | +4" W.G. / +2" W.G. | A               | 6                            |
| RECTANGULAR RETURN                               | -2" W.G.            | A               | 6                            |
| RECTANGULAR EXHAUST                              | -2" W.G.            | A               | 6                            |
| ROUND SUPPLY UPSTREAM VAV / DOWNSTREAM VAV       | +4" W.G. / +2" W.G. | A               | 3                            |
| ROUND RETURN                                     | -2" W.G.            | A               | 3                            |
| ROUND EXHAUST                                    | -2" W.G.            | A               | 3                            |


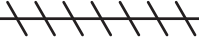



GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED BY PROFESSIONALS IN THE FIELD AND COMPLY WITH THE APPLICABLE REGULATIONS OF NYS BUILDING CODES (MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, ETC.), OSHA AND CAMPUS WORK RULES.
- ALL NOTES PROVIDED IN THESE DOCUMENTS ARE PART OF THE CONTRACT AND CARRY EQUAL VALUE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND BE RESPONSIBLE TO ARRANGE AND SECURE ALL NECESSARY INSPECTIONS..
- ALL WORK PERFORMED BY THE CONTRACTOR/SUB-CONTRACTORS SHALL CONFORM TO THE REQUIREMENTS OF MUNICIPAL, LOCAL OR FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.
- CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR JOBSITE SAFETY AND SHALL ARRANGE WORK IN SUCH A MANNER TO PROVIDE FOR SAFE ACCESS FOR COLLEGE'S INSPECTION OF ALL WORK.
- THE TERMS "PROVIDE" OR "FURNISH AND INSTALL" SHALL INCLUDE ALL LABOR, MATERIALS, DEVICES, WIRING, RIGGING, SUPPORTS, DELIVERY ETC. THAT WOULD BE NECESSARY TO PROVIDE FOR A FULLY FUNCTIONAL DEVICE AS INDICATED.
- ALL MATERIAL SHALL BE NEW. REBUILT OR REFURBISHED MATERIALS SHALL BE REJECTED.
- ALL WORK SHALL BE PERFORMED WITH MINIMAL INTERRUPTION TO THE COLLEGE. ANY WORK REQUIRING UTILITY SHUTDOWN, OR OTHER DISRUPTION SHALL NOT BE DONE WITHOUT COLLEGE'S APPROVAL.
- THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIALS, SHOP DRAWINGS, AND PERFORMANCE INFORMATION ON ALL PRODUCTS FOR APPROVAL. ALL PRODUCTS INSTALLED WITHOUT APPROVAL SHALL BE AT RISK. APPROVAL SHALL BE LIMITED TO THAT THE PRODUCT COMPLIES WITH THE SPECIFICATIONS OR EXPECTED PERFORMANCE; ACTUAL PERFORMANCE TO THE LIMITS DEFINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE INSTRUCTION TO THE OWNER FOR ALL EQUIPMENT SUPPLIED AND INSTALLED UNDER THIS CONTRACT, INCLUDING ANY WORK PERFORMED BY SUBCONTRACTORS.
- THE CONTRACTOR IS RESPONSIBLE TO CONFIRM AND COORDINATE JOBSITE DIMENSIONS THAT AFFECT THE ERECTION OR OPERATION OF SYSTEMS, AS INTENDED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ENSURE INSTALLED EQUIPMENT MAINTAINS ADEQUATE CLEARANCES FOR OPERATIONAL ACCESS AND SERVICE, AND SHALL MAINTAIN ANY CLEARANCES REQUIRED BY ALL APPLICABLE CODES.
- THE CONTRACTOR SHALL MAKE ALL REQUIRED ARRANGEMENTS FOR DELIVERY OF EQUIPMENT AND/OR MATERIALS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE RULES AND REGULATIONS GOVERNING WORK ON THE PREMISES.
- CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL RUBBISH AND WASTE MATERIALS. AT THE END OF EACH WORK DAY THE PROJECT SITE SHALL BE LEFT IN A SAFE AND BROOM CLEANED CONDITION.
- CONTRACTOR SHALL PROPERLY PROTECT THE BUILDING AND ANY ADJOINING PROPERTY OR WORK AND ANY DAMAGE TO THE SAME CAUSED BY HIS WORK OR WORKMEN MUST BE MADE GOOD WITHOUT DELAY, PATCHING AND REPLACING OF DAMAGED WORK.
- ALL ACCEPTANCE TESTING SHALL BE WITNESSED BY THE COLLEGE OR THE COLLEGE'S REPRESENTATIVE.
- THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A STATE FREE FROM HAZARDS AND A NEAT AND CLEAN CONDITION AT THE END OF EACH WORKDAY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, FOLLOW SAFE WORKING PRACTICES, AND MAINTAIN THE SITE AND ADJACENT AREAS SAFE FOR WORKERS AND FACILITY EMPLOYEES.
- ALL MATERIALS, TOOLS, TRUCKS ETC. SHALL BE STORED IN AREAS DESIGNATED BY THE COLLEGE. CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCT STORAGE CONDITIONS AND SECURITY. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY OF THE CONTRACTOR'S SHIPPING, DELIVERY OR OFFLOADING.
- IT IS A VIOLATION OF STATE LAW TO FOR ANY PERSON OR PERSONS TO ALTER THESE PLANS. ANY MODIFICATIONS SHALL BE UNDER THE DIRECTION OF A NYS LICENSED ENGINEER.

DRAWING NOTES:

- CONTRACTOR SHALL COMPLY WITH THE LATEST EPA REFRIGERANT EVACUATION RECLAMATION REQUIREMENTS (SECTION 608) PRIOR TO REMOVAL OF AIR CONDITIONING UNITS.
- CONTRACTOR TO DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES INCLUDING AIR CONDITIONING UNITS, HEATING AND VENTILATION UNITS, TERMINAL BOXES, AND ALL ASSOCIATED DAMPERS, CONTROLS, DUCTWORK AND PIPING.
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL EQUIPMENT.
- ALL DUCTWORK SHOWN IS SCHEMATIC AND INTENDED FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL OFFSET ALL NEW DUCTS AS REQUIRED TO AVOID CONFLICTS WITH MINIMUM ADDITION TO DUCT EQUIVALENT LENGTH. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
- ALL DUCTWORK SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING IN NYS MECHANICAL CODE MC TABLE 305.4.
- PROVIDE ACCESS DUCT DOOR 2" SMALLER THAN DUCT WIDTH AND A MAXIMUM OF 24" IN LENGTH AND WIDTH AT ALL CONTROL DAMPERS, FIRE DAMPER, FIRE SMOKE DAMPER AND SMOKE DAMPER LOCATIONS.

HVAC LEGEND

| SYMBOL  | DESCRIPTION                                      |
|---|--|
|  | EXISTING DUCTWORK/PIPING/EQUIPMENT TO REMAIN     |
|  | EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED |
|  | NEW DUCTWORK/PIPING                              |
|  | POINT OF NEW WORK CONNECTED TO EXISTING WORK     |
|  | POINT OF DISCONNECT FROM EXISTING WORK           |

DEMOLITION NOTES:

- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, STORAGE FACILITIES, SERVICES AND SUPERVISION NECESSARY FOR THE DEMOLITION WORK AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- ALL EXISTING EQUIPMENT, MATERIALS AND WORK SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE OCCURRING FROM HIS WORK.
- ALL WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR PUBLIC SAFETY AND IN CONFORMANCE WITH OSHA REGULATIONS.
- CONTRACTOR SHALL PROVIDE BARRIERS TO PREVENT DUST, ODORS, DIRT AND DEBRIS FROM MIGRATING TO AREAS NOT AFFECTED BY THIS WORK.
- REMOVAL OF ANY MATERIAL AND EQUIPMENT SHALL INCLUDE ALL ASSOCIATED ITEMS SUCH AS FASTENERS, SUPPORTS, CONDUIT, FLASHING, ADHESIVE, ETC.
- EXISTING EQUIPMENT OR MATERIALS NOT SHOWN TO BE RE-USED BY OWNER, OR NOT SHOWN ON THE DRAWINGS TO BE RETAINED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
- ALL CHARGES ASSOCIATED WITH TESTING, FILING, DISPOSAL, PREPARATION AND SUBMISSION OF ALL REQUIRED DOCUMENTATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL REQUIRED FORMS, RECORDS, TEST, DISPOSAL AND TRANSPORTATION COSTS AND THE LIKE SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. NO ADDITIONAL COSTS SHALL BE PAID TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO COMPLY WITH THE ABOVE.
- ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY, CONTRACTOR TO FIELD VERIFY.

DUCTWORK NOTES

- THE MATERIALS, THICKNESS AND CONSTRUCTION OF SHEET METAL DUCTS SHALL PROVIDE STRUCTURAL STRENGTH AND DURABILITY. DUCTS SHALL BE CONSTRUCTED, BRACED AND REINFORCED IN ACCORDANCE WITH LOW PRESSURE AND HIGH PRESSURE DUCT STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA), LATEST EDITION IN PRINT OR IN ACCORDANCE WITH THE FUNDAMENTALS VOLUME BOOK OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE), LATEST EDITION IN PRINT.
- DUCTS SHALL BE SUBSTANTIALLY SUPPORTED. HANGERS AND BRACKETS FOR SUPPORTING DUCTS SHALL BE OF METAL HANGERS SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY AND SUFFICIENT RESISTANCE TO THE CORROSIVE EFFECTS OF THE ATMOSPHERE TO WHICH THEY WILL BE EXPOSED, TO PROPERLY AND SAFELY SUPPORT THE DUCTWORK. HANGERS SHALL NOT BE USED IN DIRECT CONTACT WITH A DISSIMILAR METAL THAT WOULD CAUSE GALVANIC ACTION IN THE HANGER, DUCT, FASTENINGS OR STRUCTURE.
  - HANGERS SHALL BE FASTENED TO THE SIDES OF DUCT. FOR DUCTS OVER 48 INCHES WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST TWO INCHES AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES.
  - FOR DUCTS WITH A CROSS-SECTIONAL AREA OF TWO SQUARE FEET OR LESS, HANGERS SHALL BE CONSTRUCTED OF AT LEAST ONE INCH BY 1/16 INCH STEEL STRAP.
  - FOR DUCTS WITH A CROSS SECTIONAL AREA OVER TWO SQUARE FEET, HANGERS SHALL BE CONSTRUCTED OF THREADED STEEL ROD (MINIMUM 1/2"-DIAMETER) WITH STEEL SINGLE TRAPEZE SUPPORTS.
- DUCTS AND ALL PARTS OF THE DUCT SYSTEM SHALL BE SUBSTANTIALLY SUPPORTED AND SECURELY FASTENED TO THE STRUCTURAL MEMBERS OF THE BUILDING WITH APPROVED DEVICES OF NONCOMBUSTIBLE MATERIAL DESIGNED TO CARRY THE REQUIRED LOADS. THE USE OF EXPANSION BOLTS IN CINDER CONCRETE IS PROHIBITED. CONNECTIONS SHALL NOT IMPAIR THE EFFECTIVENESS OF THE FIRE PROTECTION OF STRUCTURAL MEMBERS.
- DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY SUSPENDED CEILINGS.

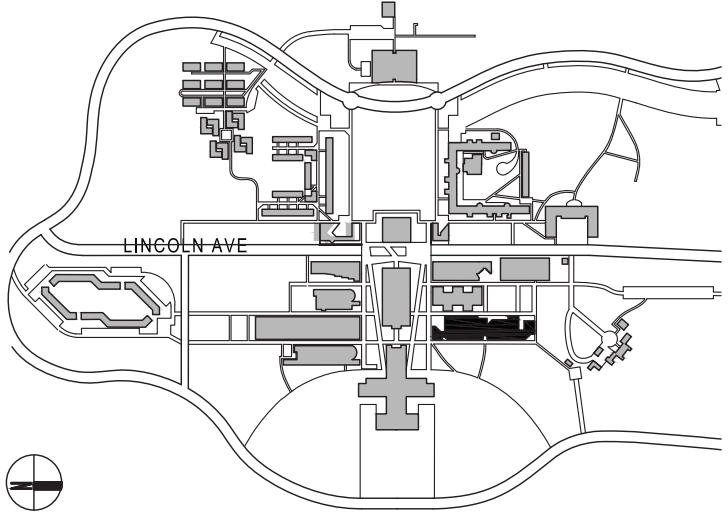
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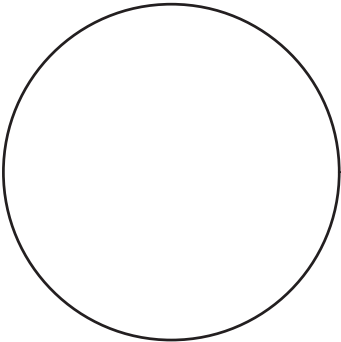


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BID ISSUE

SEAL:



|    |            |                            |
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| 01 | 12.04.2023 | ISSUED FOR CLIENT APPROVAL |

| NO     | DATE | DESCRIPTION |
|--------|------|-------------|
| ISSUES |      |             |

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

MECHANICAL LEGENDS, NOTES &  
ABBREVIATIONS (SHEET 2 OF 2)

DRAWING NUMBER DRAWING 2 OF 13

M-002.00



SINGLE DUCT VARIABLE AIR VOLUME OR CONSTANT AIR VOLUME BOX SCHEDULE

| TAG        | LOCATION                | ASSOCIATED UNIT | MAX CFM | MIN CFM | INLET DUCT SIZE, IN | OUTLET DUCT SIZE, IN. | SOUND POWER DATA (NC) |    | HOT WATER HEATING COIL |        |        |      |        |        |        |        |             |      |     | MANUFACTURER AND MODEL | REMARKS |
|------------|-------------------------|-----------------|---------|---------|---------------------|-----------------------|-----------------------|----|------------------------|--------|--------|------|--------|--------|--------|--------|-------------|------|-----|------------------------|---------|
|            |                         |                 |         |         |                     |                       |                       |    | HEATING CFM            | EWT °F | LWT °F | GPM  | EAT °F | LAT °F | MBH    | WPD FT | APD IN W.G. | ROWS | FPI |                        |         |
| VAV/1-0-14 | DARK ROOM               | XAHU/1          | 500     | 250     | 8                   | 12x10                 | 19                    | 27 | 500                    | 180    | 131    | 0.70 | 55     | 85     | 16.3   | 0.12   | 0.17        | 2    | 10  | TITUS DESV             | 1-5     |
| VAV/1-0-16 | CLASSROOM               | XAHU/1          | 960     | 480     | 12                  | 16x15                 | 19                    | 23 | 960                    | 180    | 122.5  | 0.16 | 55     | 85     | 31.1   | 0.16   | 0.16        | 2    | 10  | TITUS DESV             | 1-5     |
| VAV/1-0-17 | WORK ROOM, FILM DEVELOP | XAHU/1          | 1,320   | 660     | 14                  | 20x17.5               | 18                    | 19 | 1,320                  | 180    | 119.1  | 0.15 | 55     | 85     | 42.768 | 0.13   | 0.15        | 2    | 10  | TITUS DESV             | 1-5     |

- REMARKS:
1. PROVIDE SHOP DRAWINGS INCLUDING SOUND DATA, BOX PERFORMANCE, AND CONTROLS.
  2. ALL PERFORMANCE TESTS BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
  3. CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.
  4. PROVIDE INTEGRAL 120V-24V TRANSFORMER AND DISCONNECT SWITCH.
  5. PROVIDE INTEGRAL COIL AND ACCESS DOOR FOR ALL UNITS SHOWN TO HAVE A COIL ABOVE.

EXHAUST AIR VALVE SCHEDULE

| TAG        | LOCATION  | ASSOCIATED UNIT | ASSOCIATED VAV | MAX AIRFLOW (CFM) | MIN AIRFLOW (CFM) | BOX SIZE | MANUFACTURER AND MODEL | REMARKS |
|------------|-----------|-----------------|----------------|-------------------|-------------------|----------|------------------------|---------|
| EAV/1-0-10 | WORK ROOM | XEF/1           | XVAV-1-0-17    | 1,700             | -                 | 12       | ACCUTROL AVC4212-17-F  | 1-3     |

- REMARKS:
1. ALL PERFORMANCE TESTS BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
  2. CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.
  3. PROVIDE SHOP DRAWINGS INCLUDING SOUND DATA, BOX PERFORMANCE, AND CONTROLS.

EXISTING - RELOCATED SINGLE DUCT VARIABLE AIR VOLUME OR CONSTANT AIR VOLUME BOX NEW PERFORMANCE SCHEDULE

| TAG         | LOCATION                           | ASSOCIATED UNIT | MAX CFM | MIN CFM | INLET DUCT SIZE, IN | OUTLET DUCT SIZE, IN. | SOUND POWER DATA (NC) |    | HOT WATER HEATING COIL |        |        |     |        |        |      |        |             |      |     | MANUFACTURER AND MODEL | REMARKS |
|-------------|------------------------------------|-----------------|---------|---------|---------------------|-----------------------|-----------------------|----|------------------------|--------|--------|-----|--------|--------|------|--------|-------------|------|-----|------------------------|---------|
|             |                                    |                 |         |         |                     |                       |                       |    | HEATING CFM            | EWT °F | LWT °F | GPM | EAT °F | LAT °F | MBH  | WPD FT | APD IN W.G. | ROWS | FPI |                        |         |
| XVAV/1-0-15 | TECH ROOM, FILM UNLOAD 022C & 022D | XAHU/1          | 175     | 88      | 6                   | 12x8                  | 13                    | 20 | 175                    | 180    | 160    | 0.6 | 55     | 85     | 5.7  | 0.12   | 0.03        | 1    | 10  | TITUS DESV             | 1       |
| XVAV/1-0-25 | CORRIDORS                          | XAHU/1          | 590     | 590     | 8                   | 12x10                 | 19                    | 27 | 590                    | 180    | 160    | 1.9 | 55     | 85     | 19.1 | 0.68   | 0.23        | 2    | 10  | TITUS DESV             | 1       |

- REMARKS:
1. NEW CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.

EXISTING - RELOCATED EXHAUST AIR VALVE SCHEDULE

| TAG        | LOCATION                         | ASSOCIATED UNIT | ASSOCIATED VAV | MAX AIRFLOW (CFM) | MIN AIRFLOW (CFM) | BOX SIZE | ACTUATOR      | MANUFACTURER AND MODEL | REMARKS |
|------------|----------------------------------|-----------------|----------------|-------------------|-------------------|----------|---------------|------------------------|---------|
| XEAV/1-0-4 | DARK ROOM                        | XEF/1           | XVAV-1-0-14    | 630               | -                 | 10       | SSA FLP 2-10V | ACCUTROL AVC4210-17-F  | 1       |
| XEAV/1-0-5 | DARK ROOM                        | XEF/1           | XVAV-1-0-14    | 630               | -                 | 10       | SSA FLP 2-10V | ACCUTROL AVC4210-17-F  |         |
| XEAV/1-0-6 | WORK ROOM, W.I.C. & FILM DEVELOP | XEF/1           | XVAV-1-0-17    | 495               | -                 | 8        | SSA FLP 2-10V | ACCUTROL AVC4210-17-F  |         |

- REMARKS:
1. NEW CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.

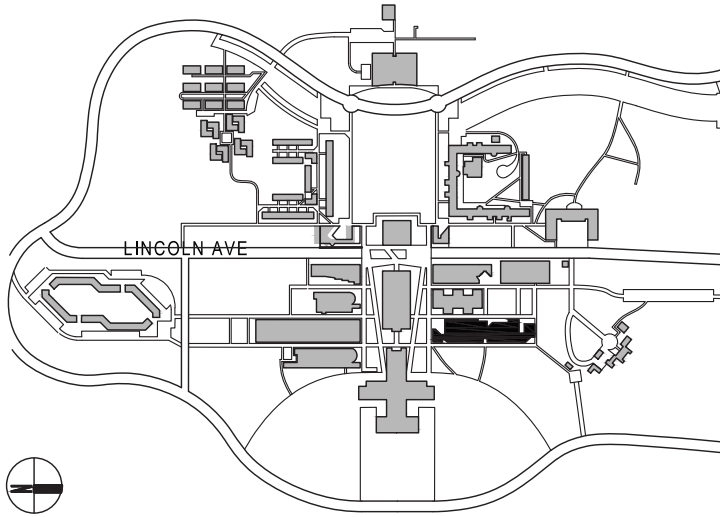
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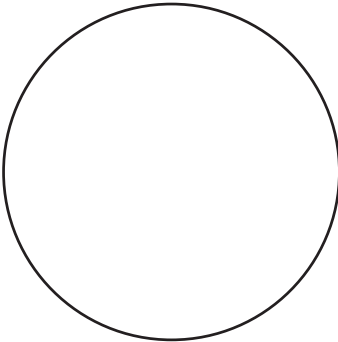


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BID ISSUE

SEAL:



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NO      DATE      DESCRIPTION

ISSUES

SCALE: AS NOTED      PROJECT NO: 10967      DATE: 02-20-24

DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWING NUMBER      DRAWING      3 OF 13

M-003.00



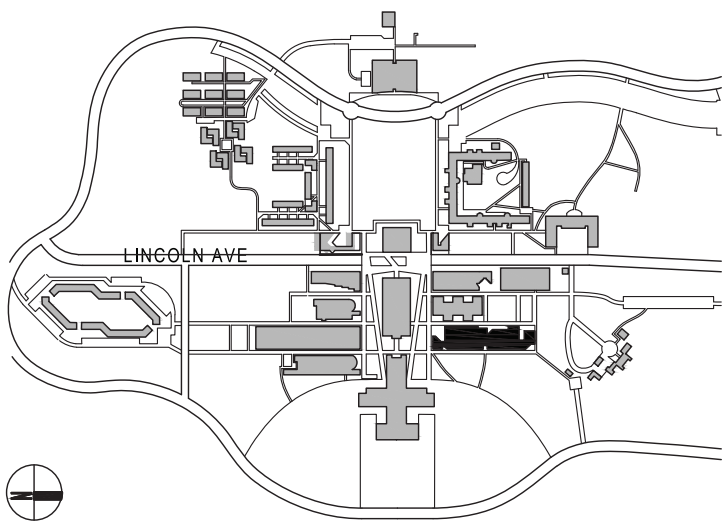
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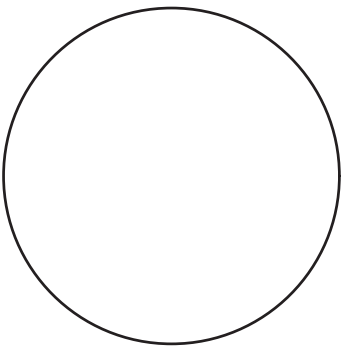


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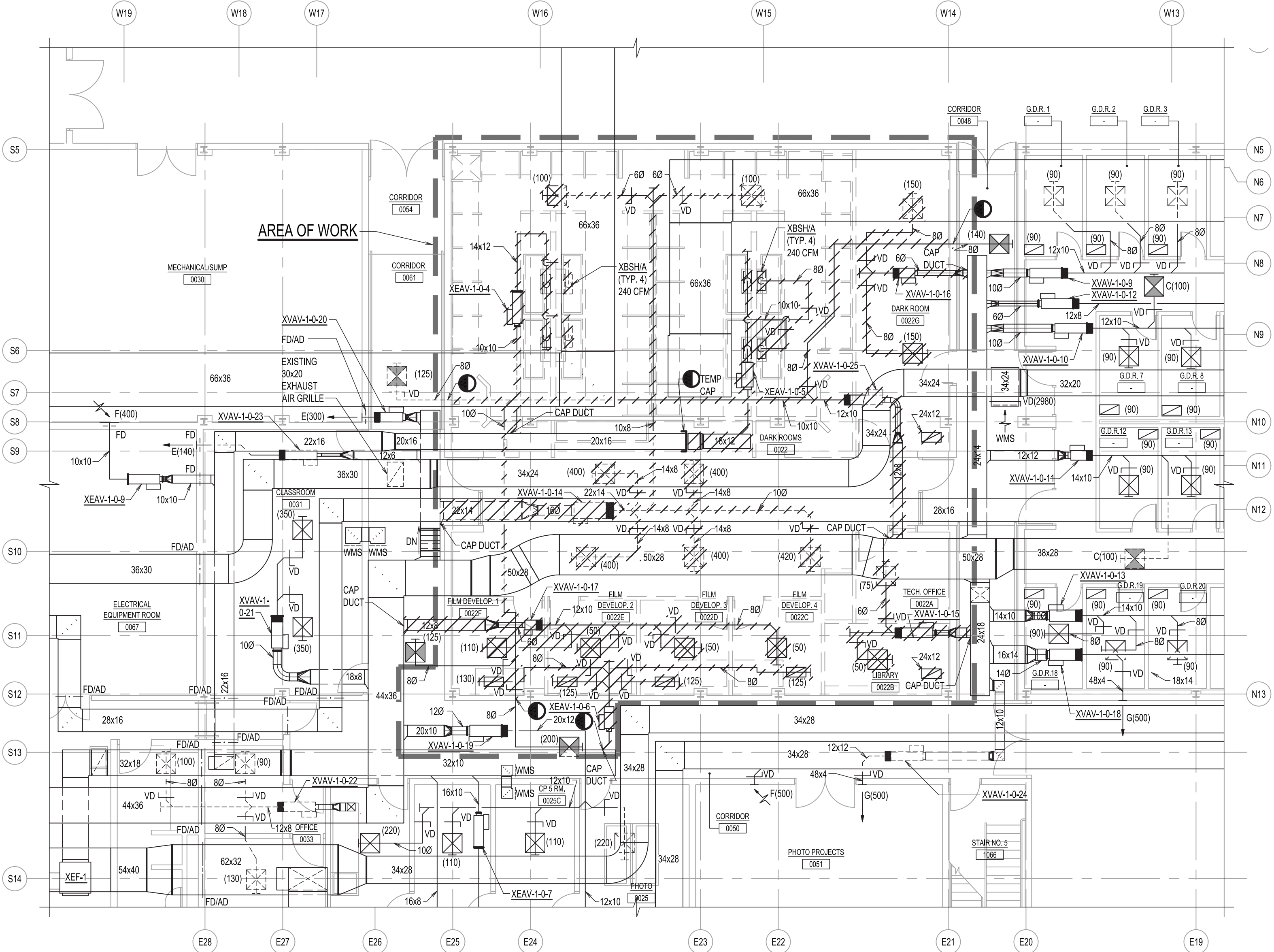
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| ISSUES |      |             |

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:  
**MECHANICAL BASEMENT  
DUCTWORK - DEMOLITION PLAN**

DRAWING NUMBER DRAWING 4 OF 13

M-101.00



BASEMENT DUCTWORK - DEMOLITION PLAN

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



GENERAL NOTES:

- WITHIN AREA OF WORK ALL EXISTING FLEXIBLE DUCT INSULATION SHALL BE REMOVED & REPLACED WITH NEW RIGID INDOOR DUCT INSULATION.
- EXISTING VAV BOXES SHALL BE REMOVED AS SHOWN & EITHER TURNED OVER TO OWNER IN WORKING CONDITION OR RELOCATED AS SHOWN ON M-201 & M-202.

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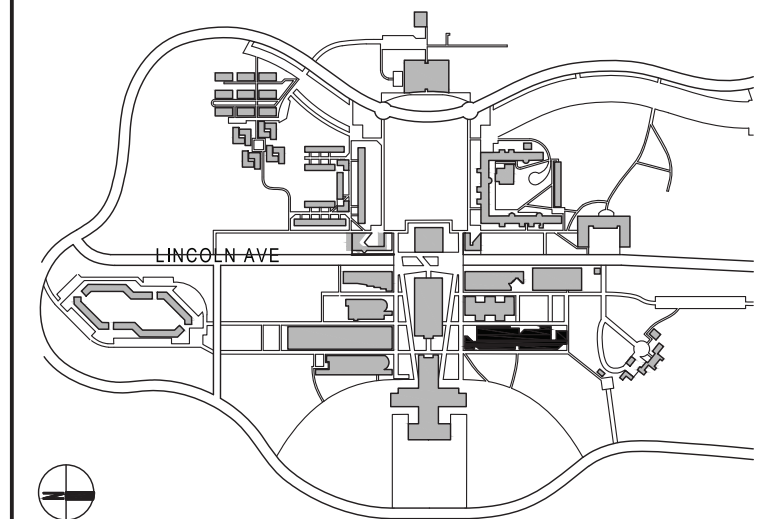
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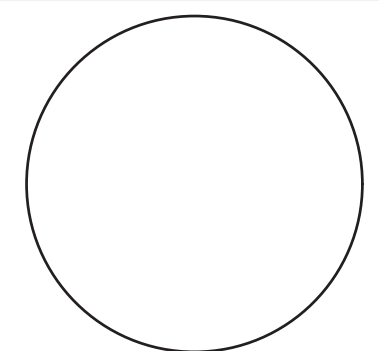


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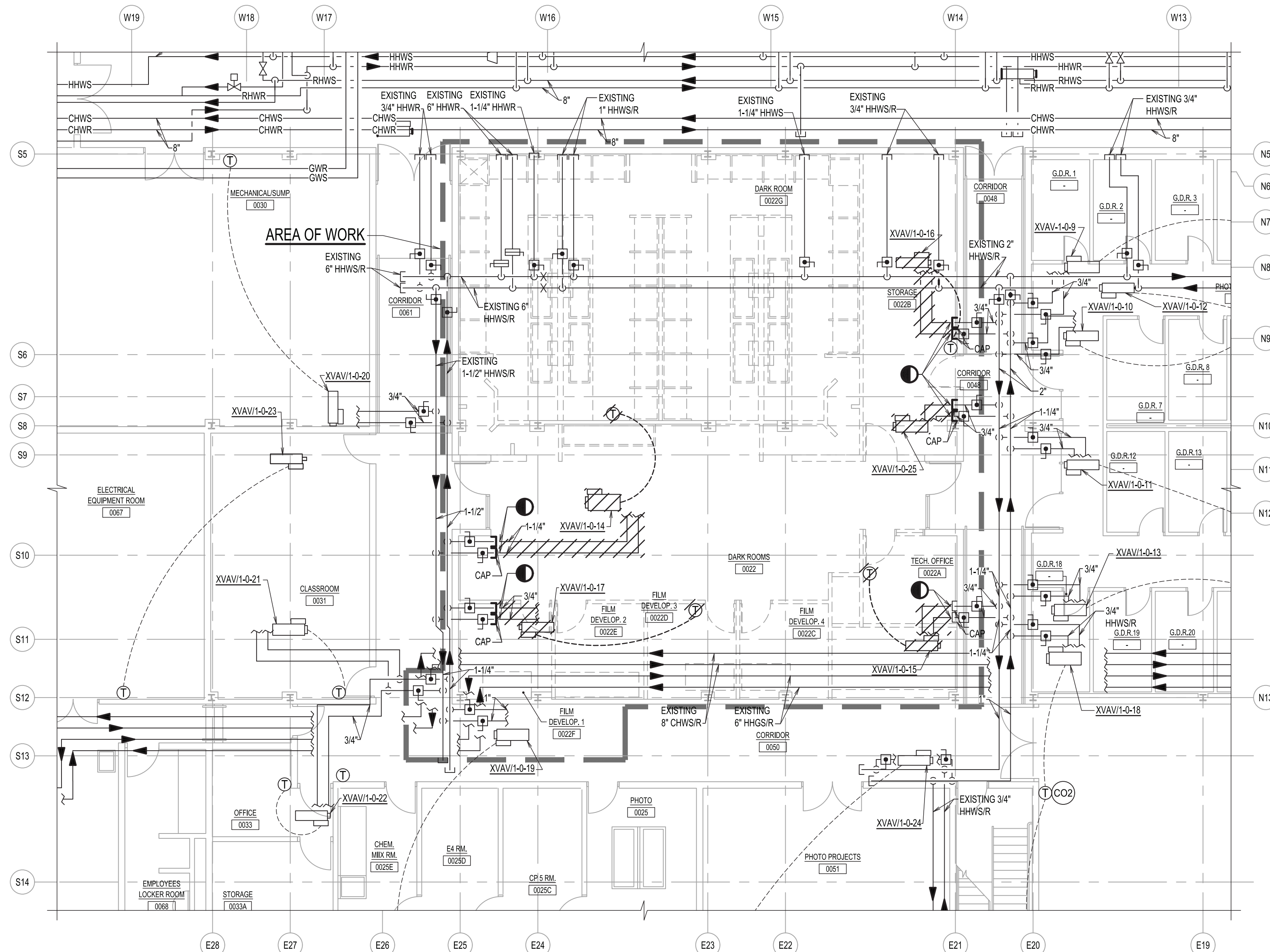
SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

### MECHANICAL BASEMENT PIPING - DEMOLITION PLAN

DRAWING NUMBER DRAWING 5 OF 13

# M-102.00



**BASEMENT PIPING - DEMOLITION PLAN**

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



### GENERAL NOTES:

- EXISTING VAV BOXES SHALL BE REMOVED AS SHOWN & EITHER TURNED OVER TO OWNER IN WORKING CONDITION OR RELOCATED AS SHOWN ON M-201 & M-202.

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### VISUAL ARTS BUILDING

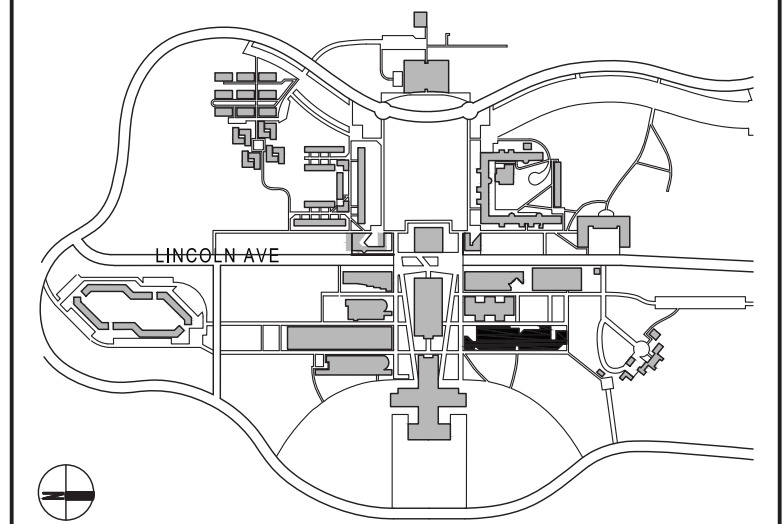
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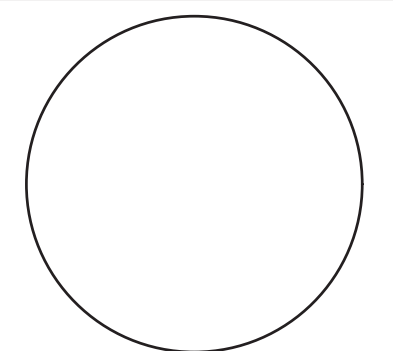


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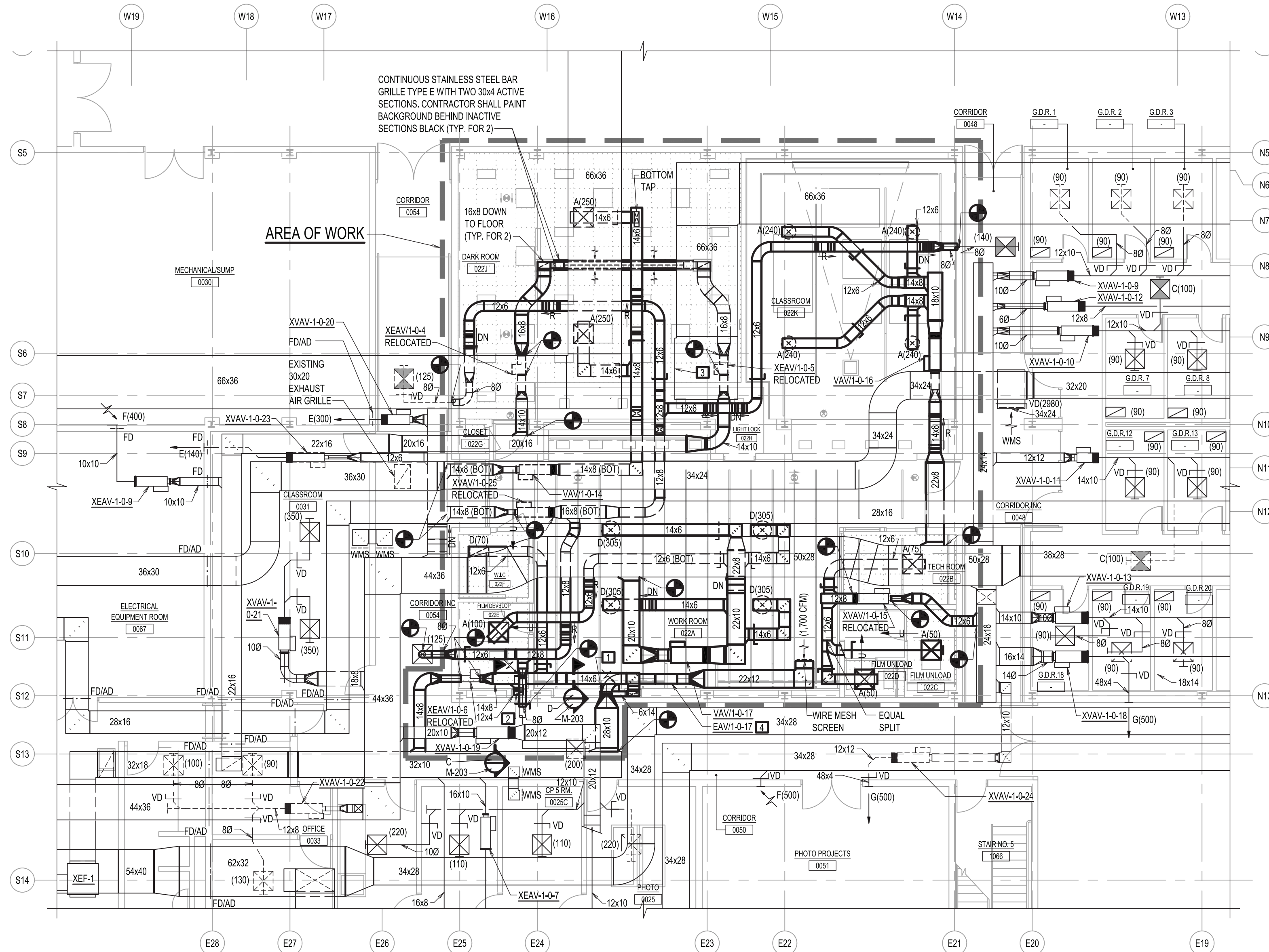
SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

## MECHANICAL BASEMENT DUCTWORK - NEW WORK PLAN

DRAWING NUMBER DRAWING 6 OF 13

# M-201.00



## BASEMENT DUCTWORK - NEW WORK PLAN

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

### CODED WORK NOTES:

- 14x6 DUCT DOWN TO 6" ABOVE FINISHED FLOOR WITH C(300) WITH 22x6 EXHAUST AIR GRILLE.
- 12x4 DUCT DOWN TO 6" ABOVE FINISHED FLOOR WITH C(125) WITH 10x6 EXHAUST AIR GRILLE.
- EXISTING DUCT CAPPED FOR FUTURE PHASE, DO NOT MOUNT ANY DUCTWORK, PIPING, ETC. BLOCKING FUTURE ACCESS TO DUCT
- MOUNT BOX WITH CONTROL PANEL ON BOTTOM OF BOX FOR ACCESS.

### GENERAL NOTES:

- WITHIN AREA OF WORK ALL EXISTING FLEXIBLE DUCT INSULATION SHALL BE REMOVED & REPLACED WITH NEW RIGID INDOOR DUCT INSULATION.

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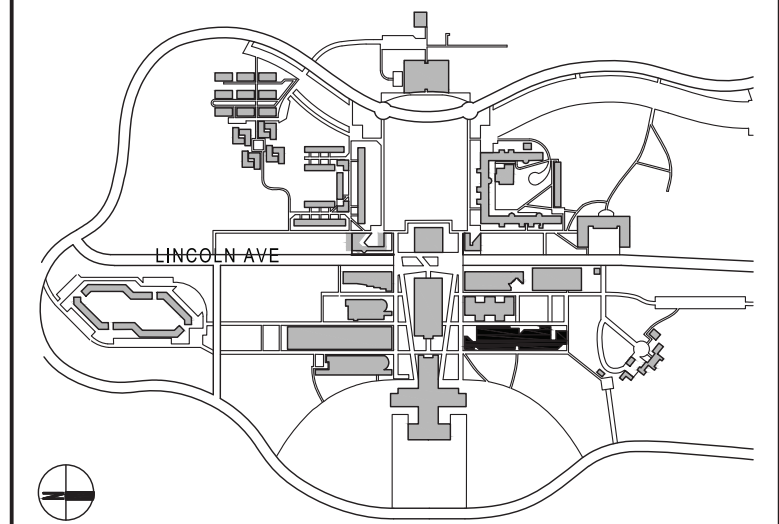
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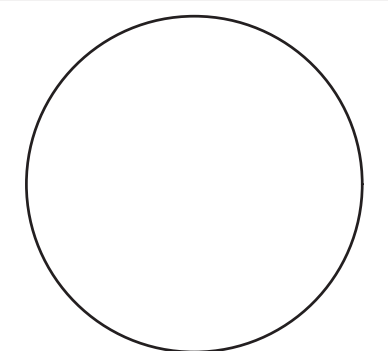


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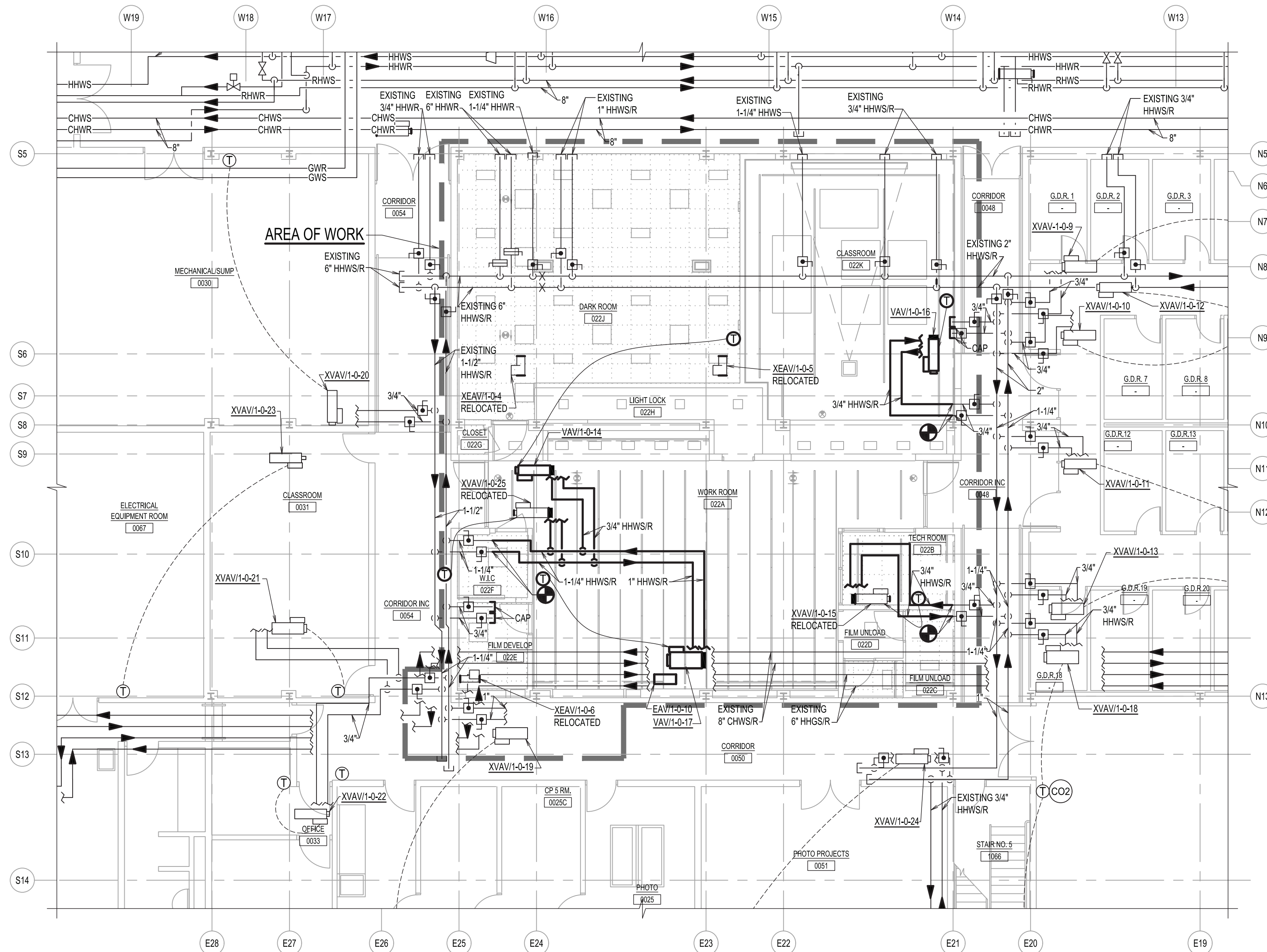
SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

## MECHANICAL BASEMENT PIPING - NEW WORK PLAN

DRAWING NUMBER DRAWING 7 OF 13

# M-202.00



**BASEMENT PIPING - NEW WORK PLAN**

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



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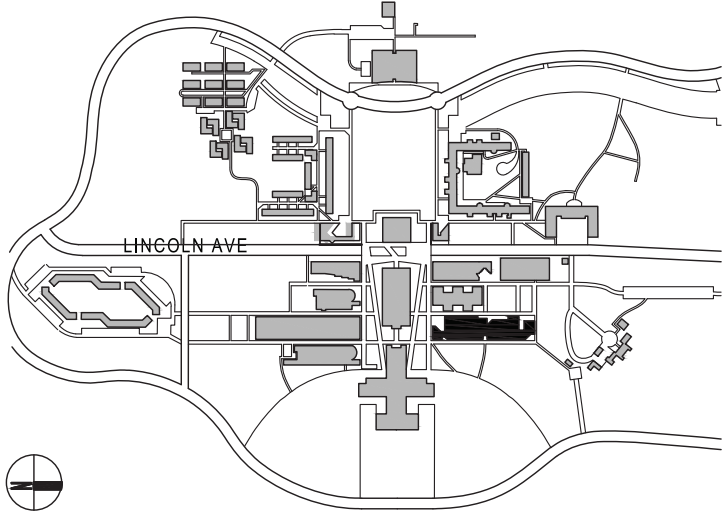
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BID ISSUE

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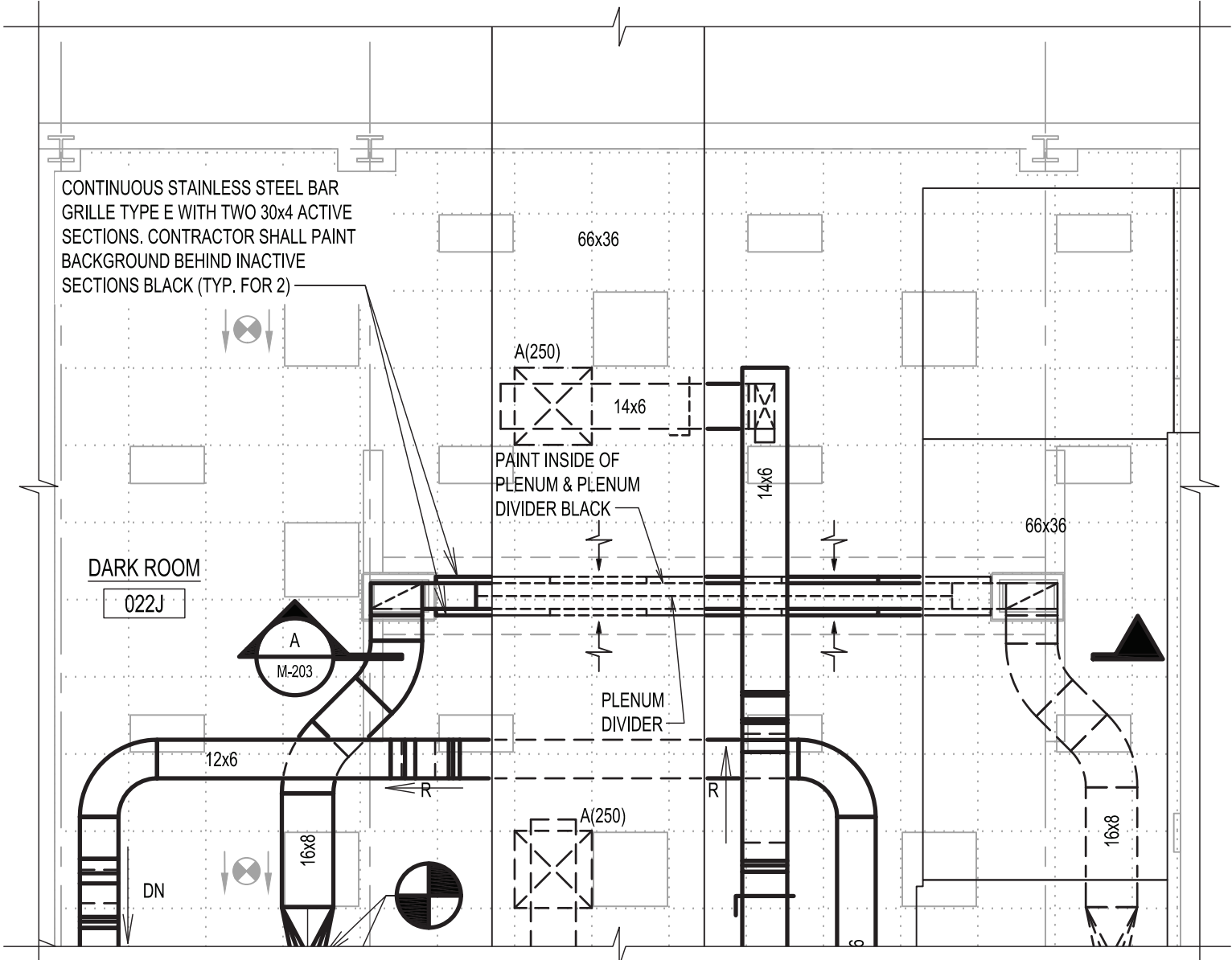
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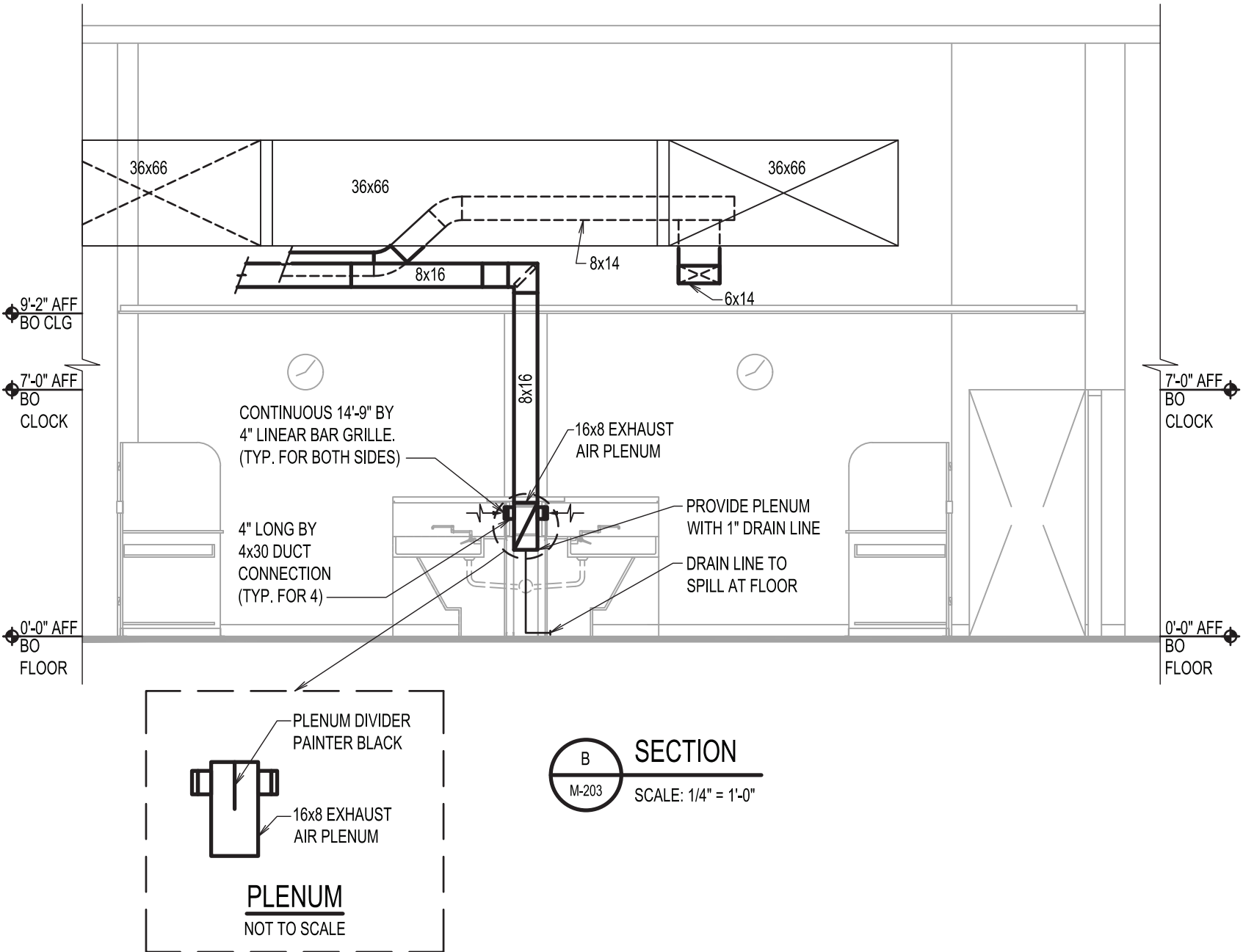
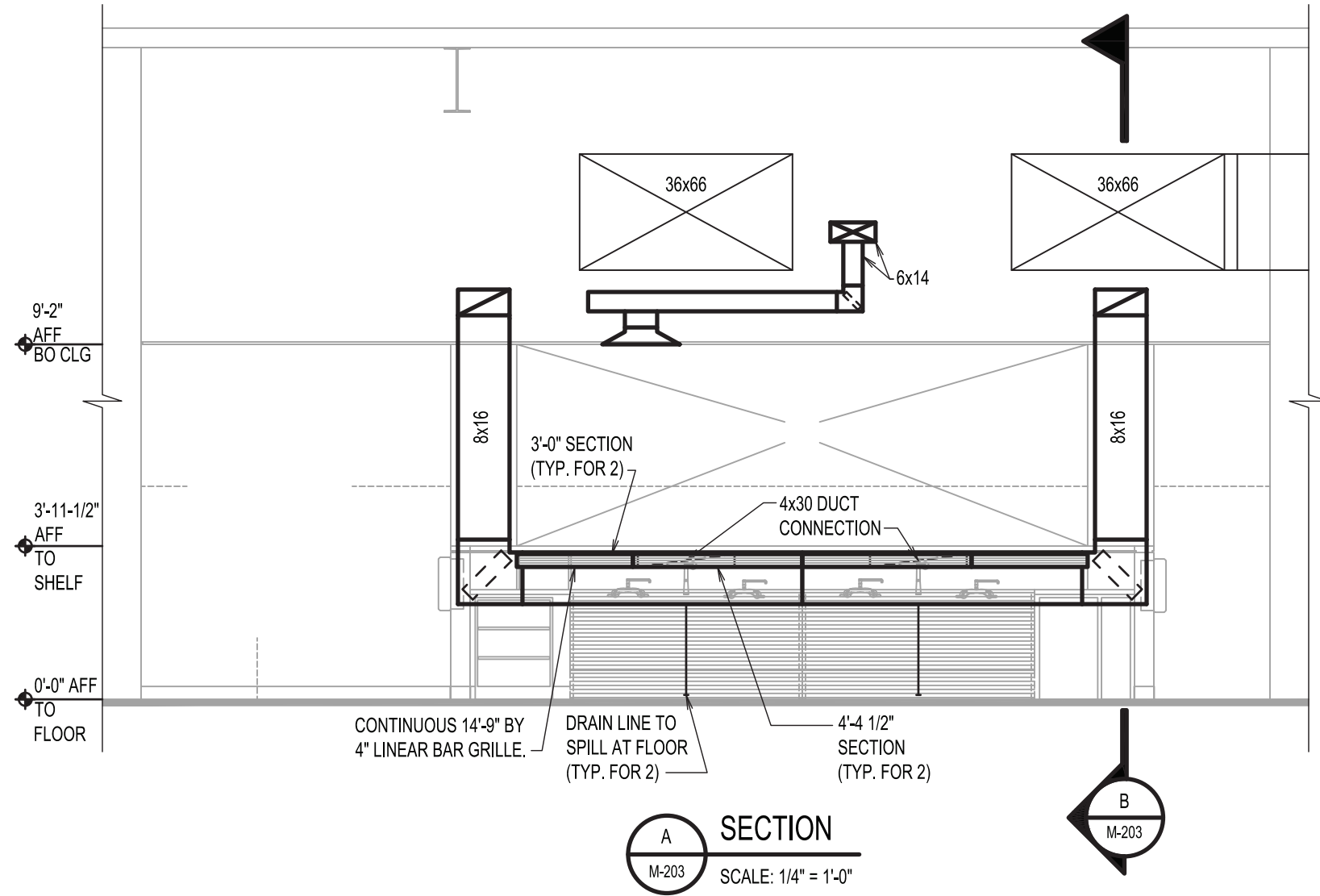
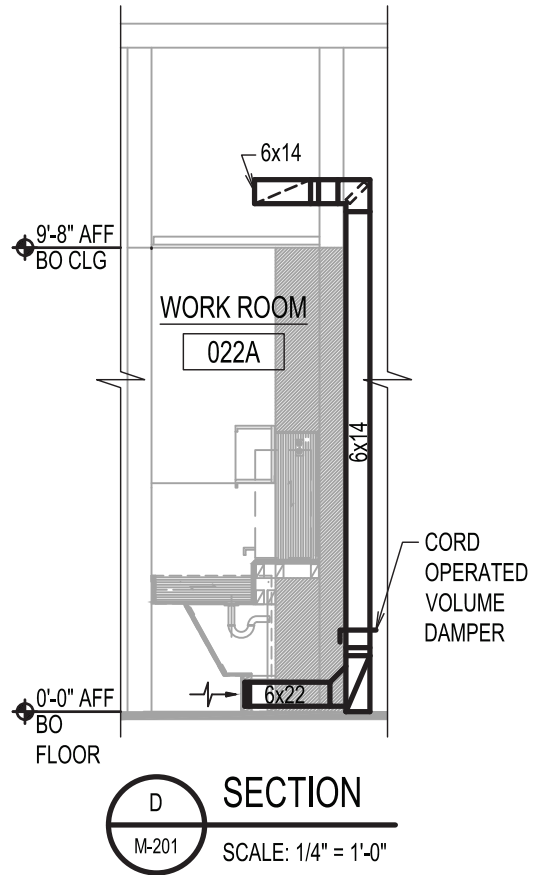
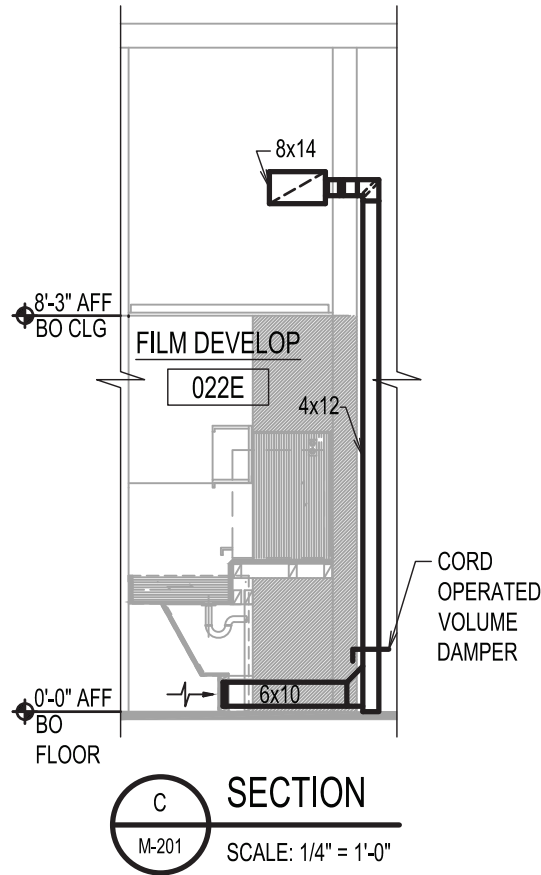
DRAWING TITLE:  
MECHANICAL PART PLANS & SECTIONS

DRAWING NUMBER DRAWING 8 OF 13

M-203.00

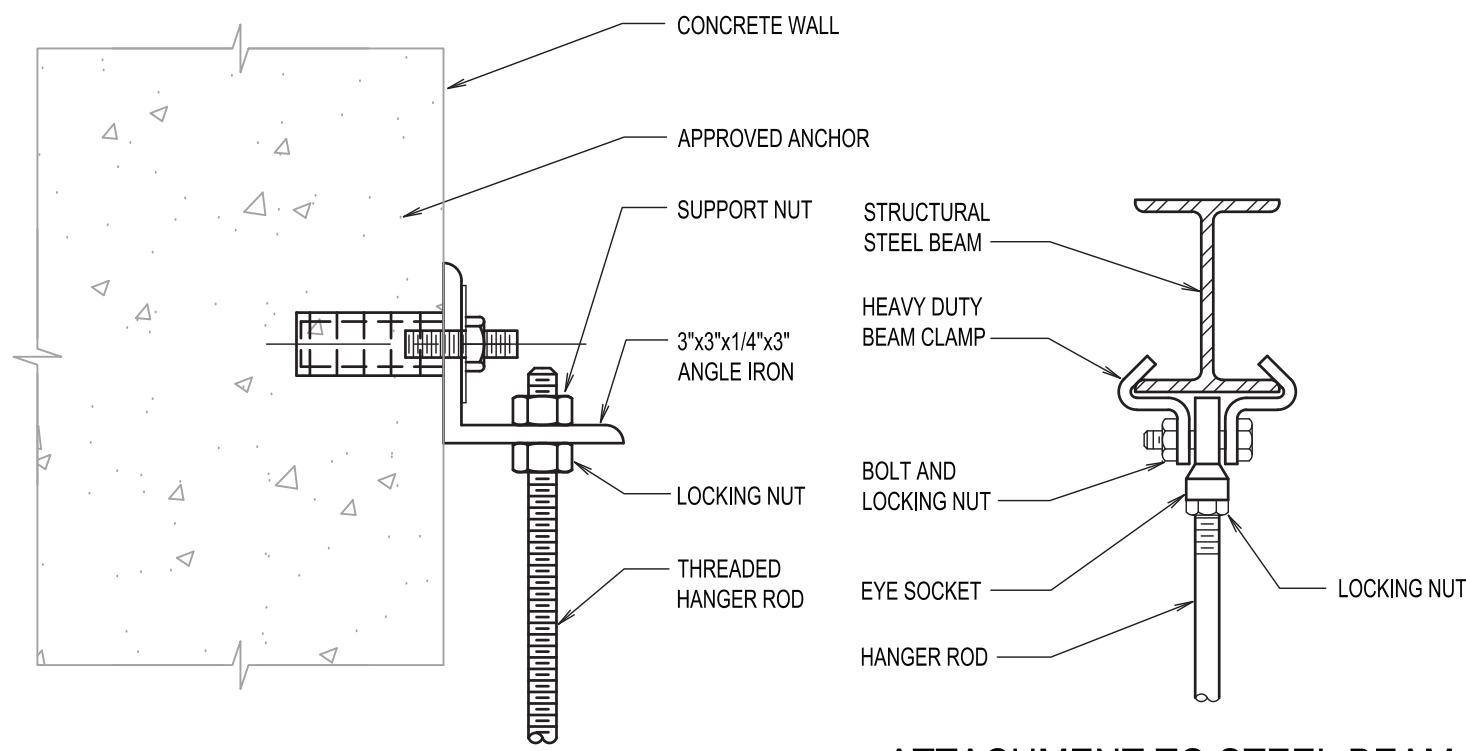


DARK ROOM DUCTWORK PART PLAN  
SCALE: 1/4" = 1'-0"



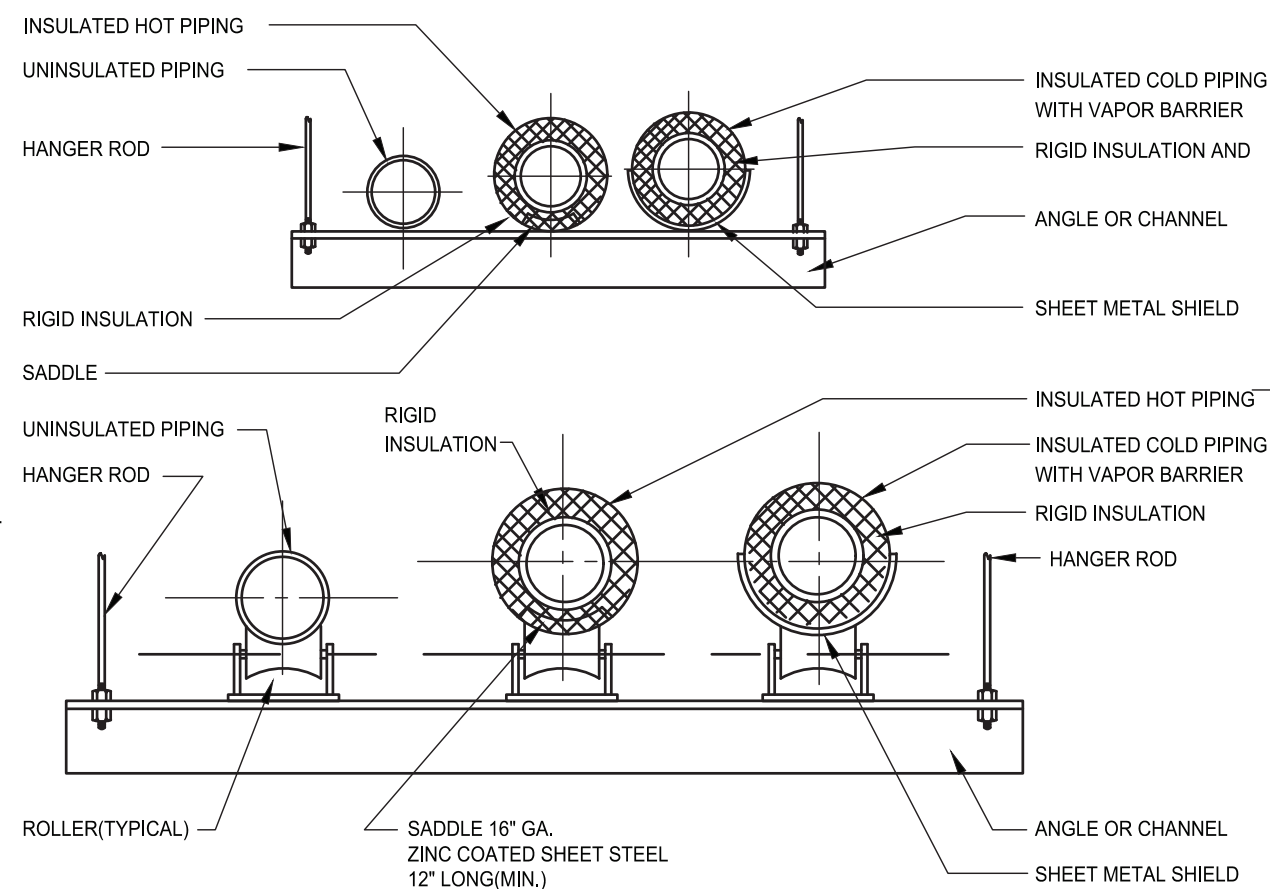
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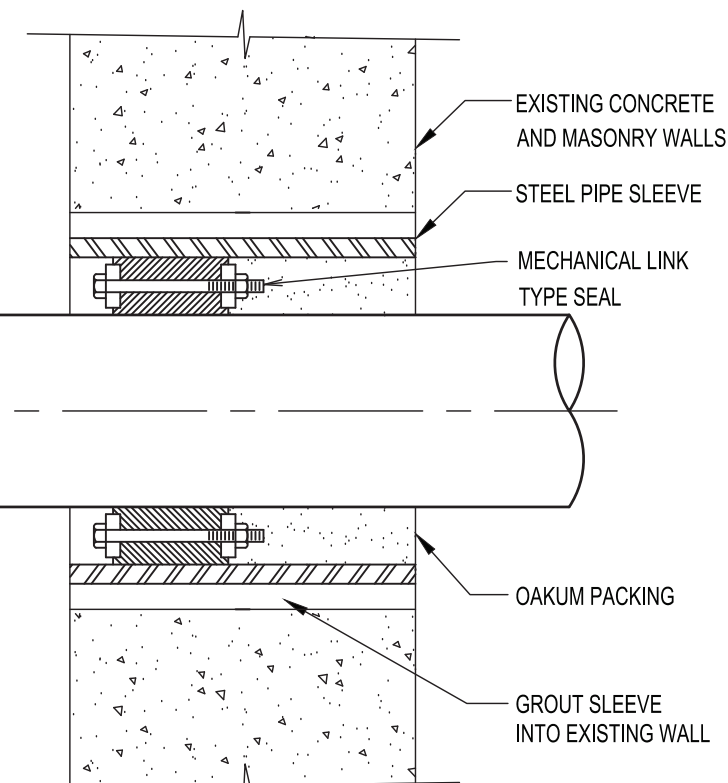


**TYPICAL PIPE HANGER SUPPORT  
FROM CONCRETE WALL**  
NOT TO SCALE

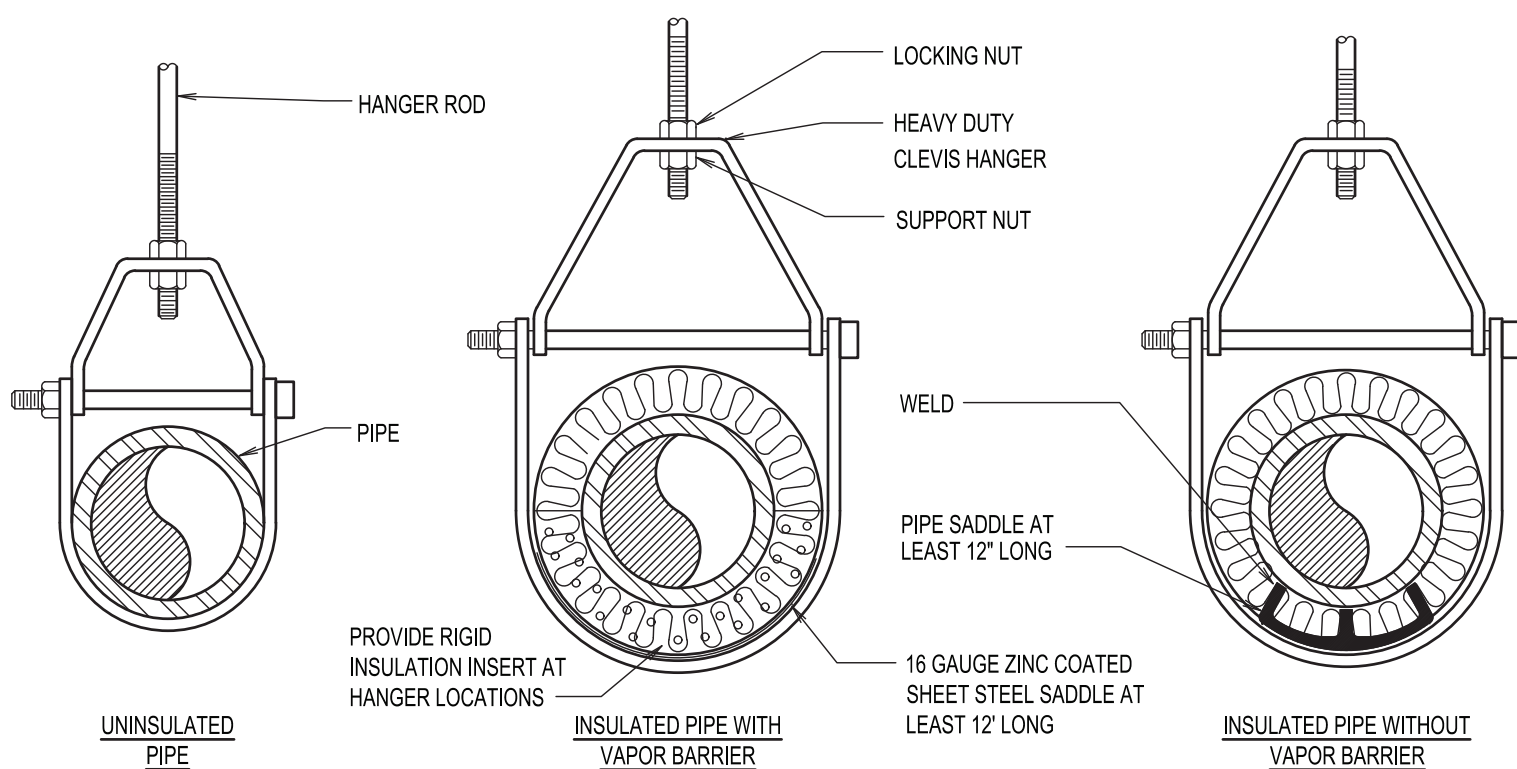
**ATTACHMENT TO STEEL BEAM**  
NOT TO SCALE



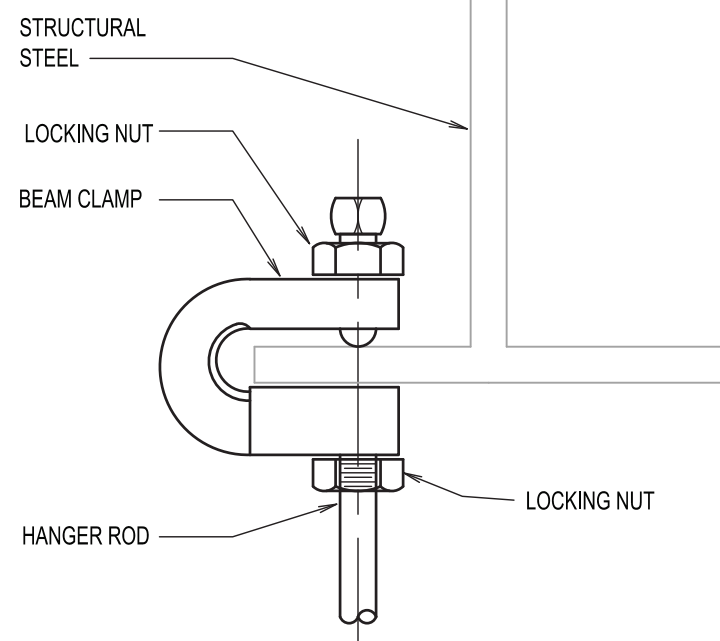
**PIPE HANGER UNGUIDED  
TRAPEZE TYPE**  
NOT TO SCALE



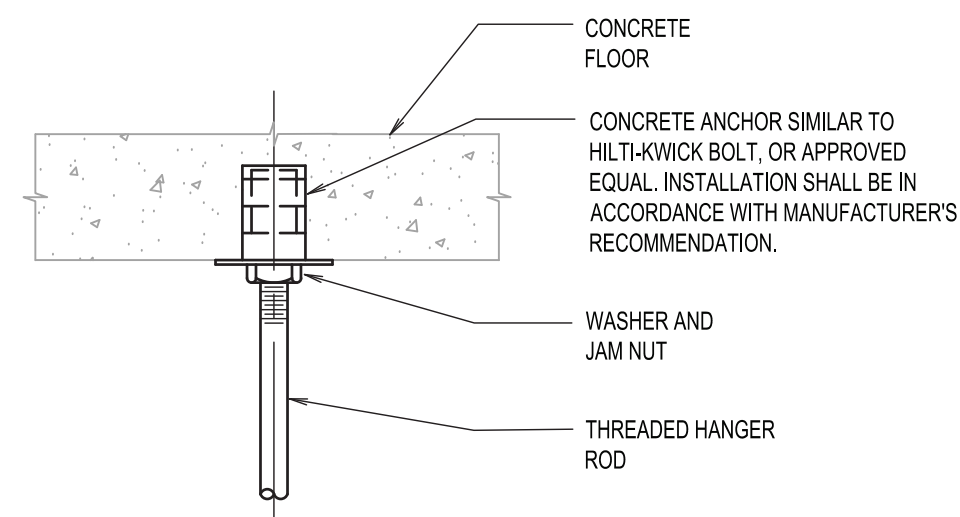
**PIPE SLEEVE DETAIL**  
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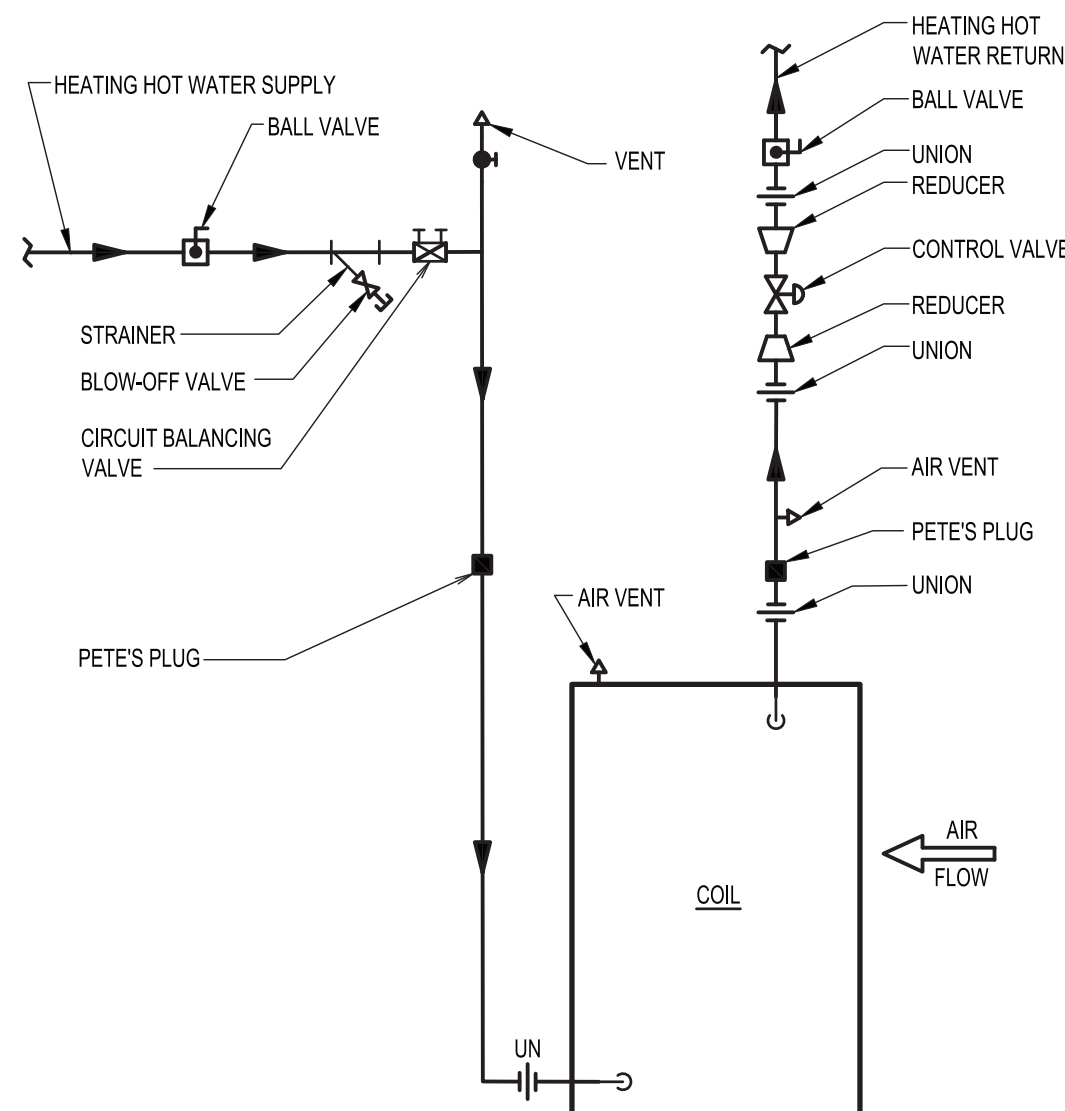
**TYPICAL INSULATED CLEVIS HANGER PIPE SUPPORTS**  
NOT TO SCALE



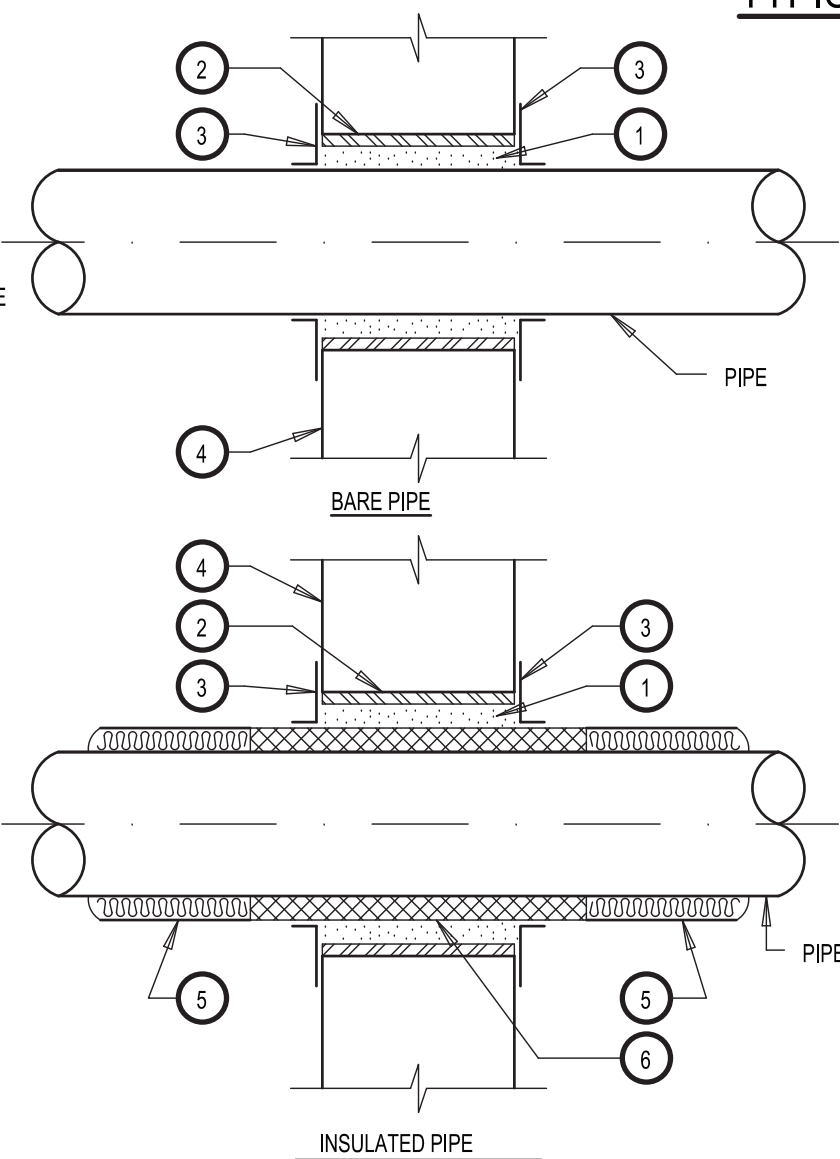
**TYPICAL HANGER SUPPORT**  
NOT TO SCALE



**TYPICAL ANCHOR BOLT**  
NOT TO SCALE

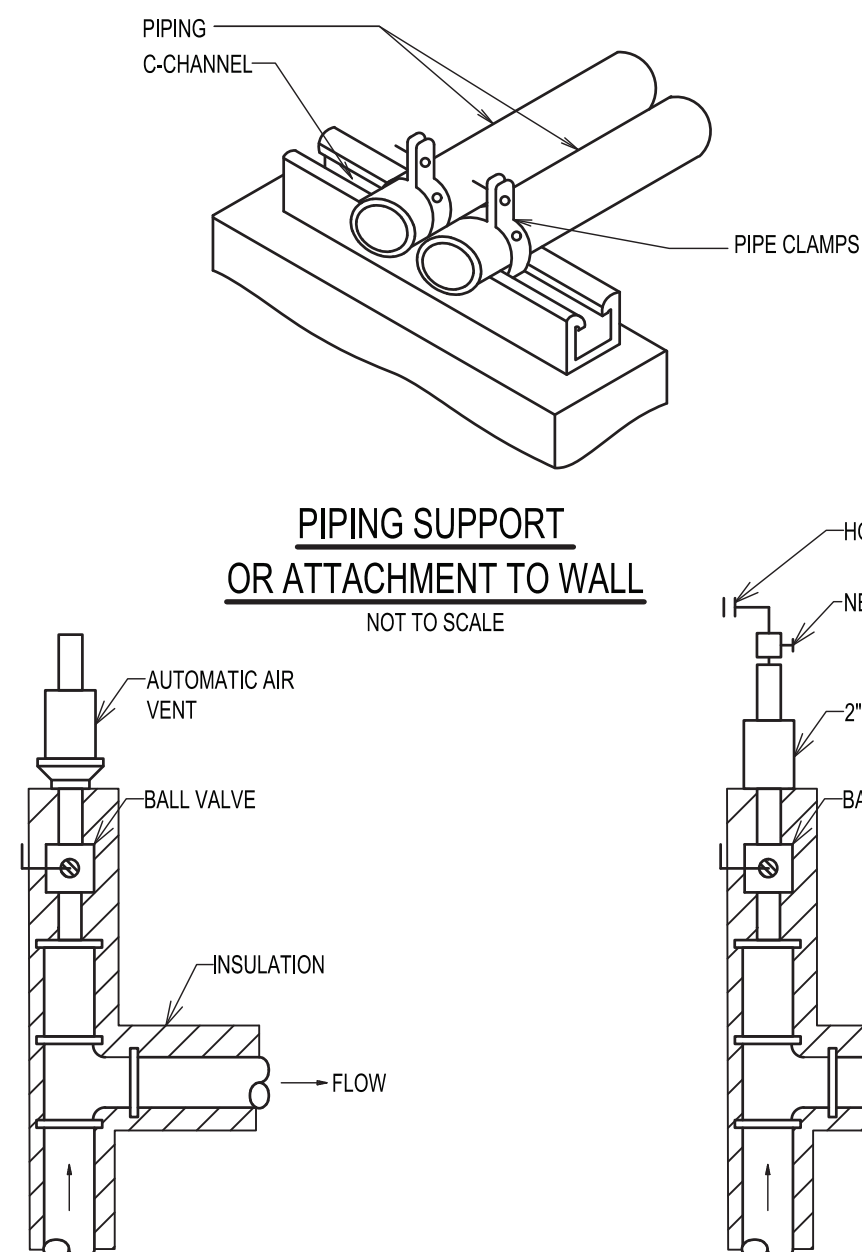


**REHEAT COIL WATER CONNECTIONS  
WITH TWO-WAY VALVE**  
NOT TO SCALE

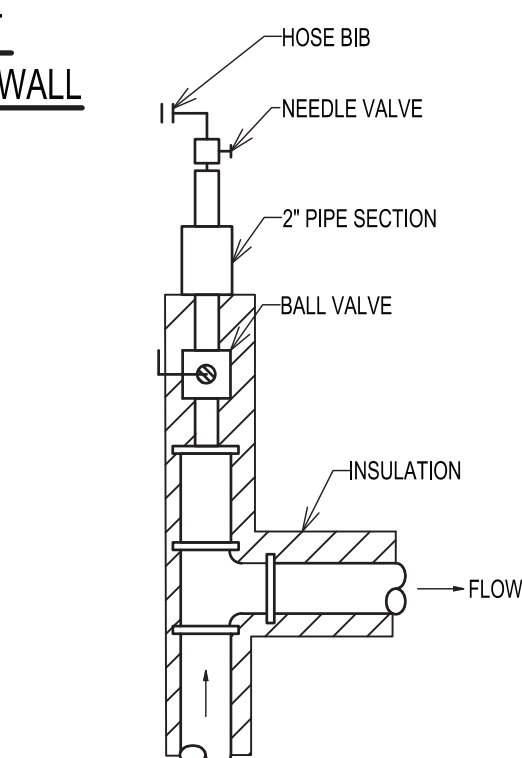


**PIPE PENETRATION DETAIL  
THRU PARTITION, WALL & FLOOR**  
NOT TO SCALE

- NOTES:**
1. FILL VOID BETWEEN SLEEVE AND PIPE (OR INSULATION) TO FULL DEPTH WITH INTUMESCENT FIRE STOPPING MATERIAL (AT FIRE RATED WALL). MAXIMUM VOID 1/2-INCH
  2. SLEEVE
  3. ESCUTCHEON ON BOTH SIDES FOR ANY EXPOSED LOCATIONS.
  4. PARTITION, WALL OR FLOOR (SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING)
  5. INSULATION (SEE SPECIFICATIONS)
  6. CALCIUM SILICATE INSULATION (AT FIRE RATED PARTITION, WALL OR FLOOR ONLY) THRU SLEEVE. USE CONTINUOUS INSULATION (ITEM 5) AT NON-RATED PARTITION, WALL OR FLOOR



**AUTOMATIC AIR VENT DETAIL**  
(USE ONLY IN MECHANICAL ROOMS)  
NOT TO SCALE



**MANUAL AIR VENT DETAIL**  
(USE AT ALL HIGH POINTS)  
NOT TO SCALE

# PURCHASE COLLEGE

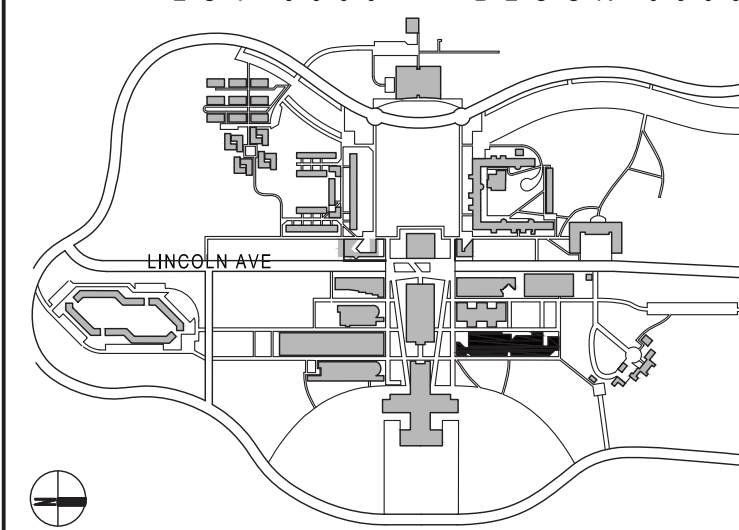
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SEAN.CONNOLLY@PURCHASE.EDU

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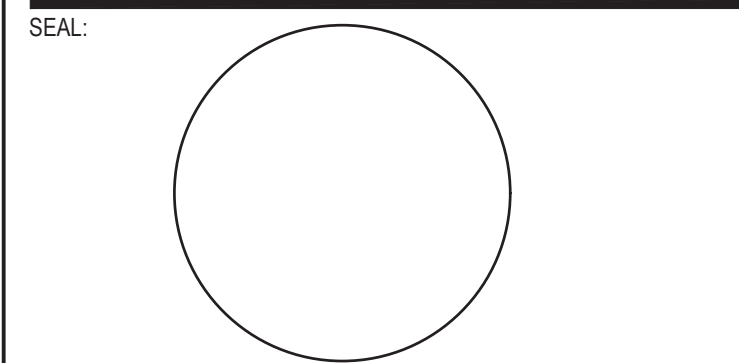
KEY PLAN LOT 0000 BLOCK 0000



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## BID ISSUE



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|----|------------|----------------------------|
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NO DATE DESCRIPTION  
ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

## MECHANICAL DETAILS (SHEET 1 OF 3)

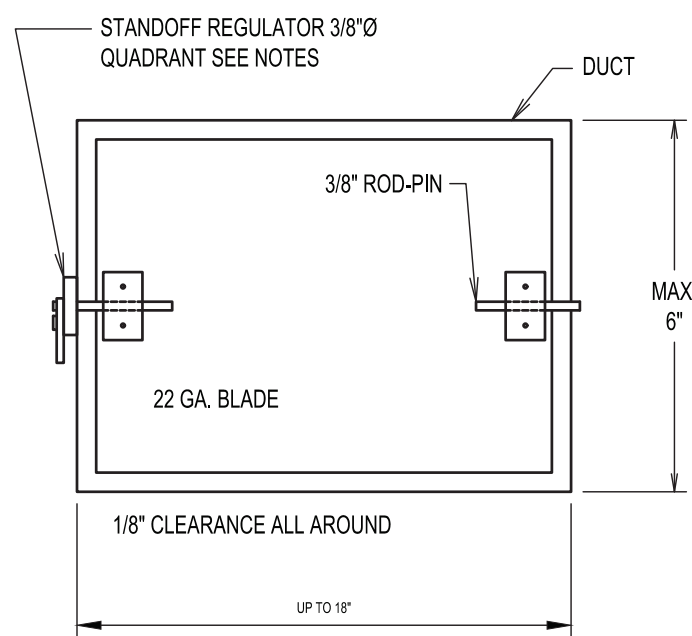
DRAWING NUMBER DRAWING 9 OF 13

# M-301.00

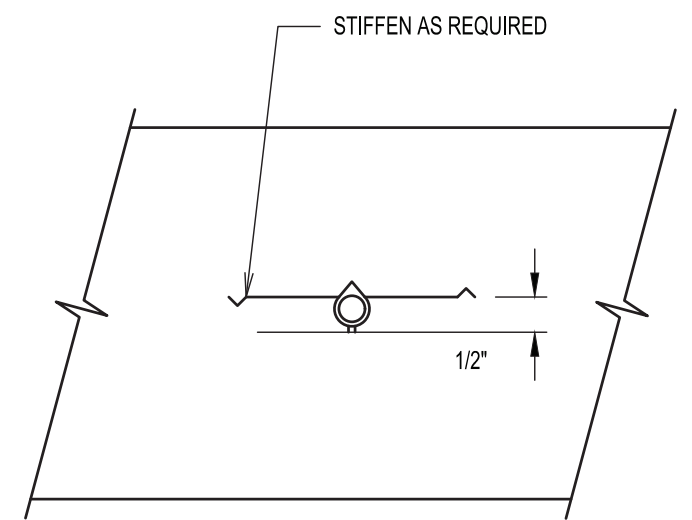




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6  
5  
4  
3  
2  
1  
1/2  
0



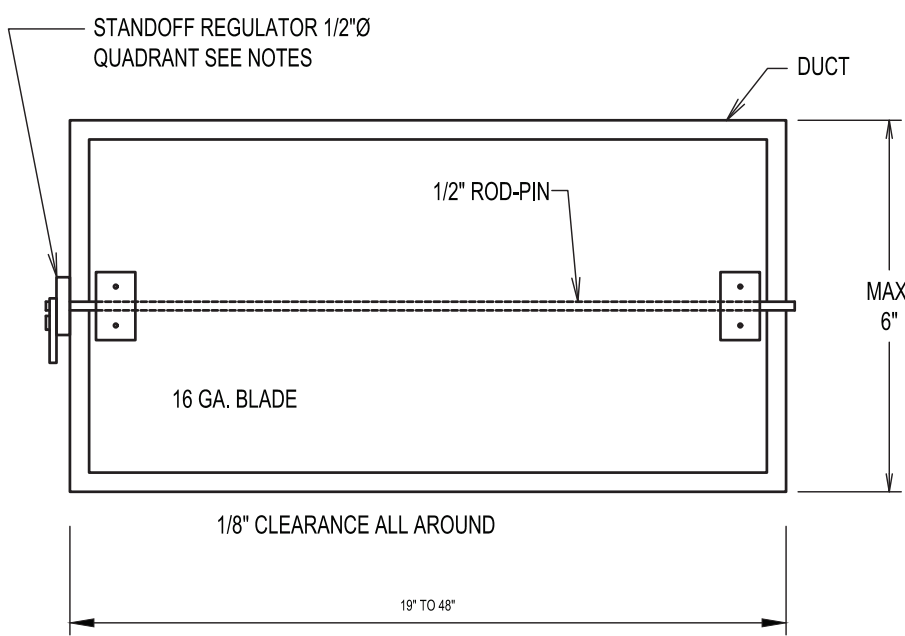
**NOTES:**



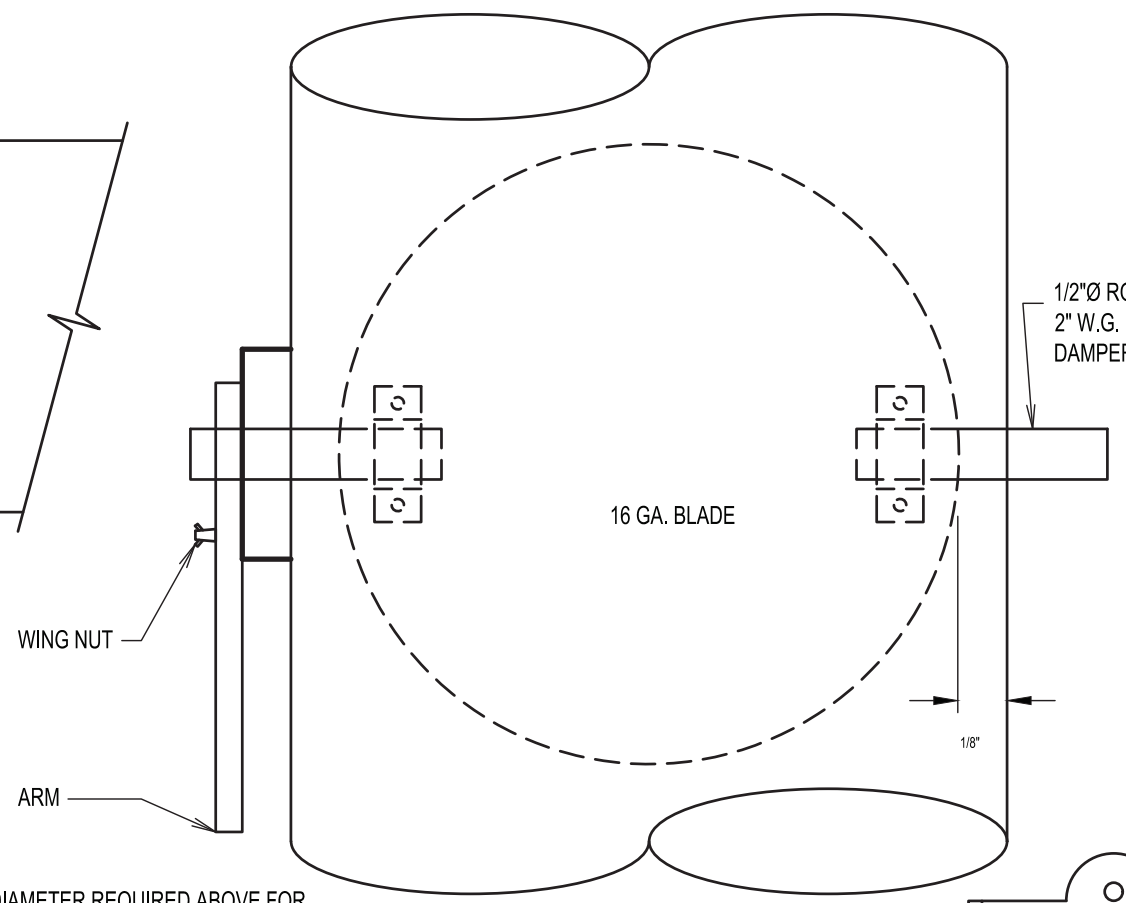
**FIG. A & B  
SIDE ELEVATION**

**NOTES:**

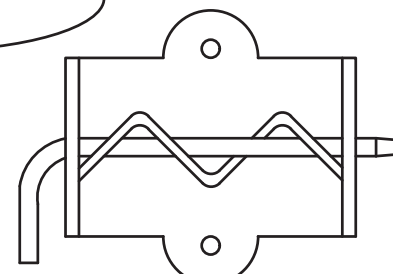
1. PROVIDE 2" HIGH STANDOFF REGULATORS OF DIAMETER REQUIRED ABOVE FOR EXTERNALLY INSULATED DUCTWORK. PROVIDE REGULATORS WITH SEALS.
2. RAPID DAMPER REGULATORS AND JIFFY DAMPERS ARE NOT ACCEPTABLE ON RECTANGULAR OR ROUND DUCTWORK.
3. PROVIDE MULTIBLADE DAMPERS FOR ALL DUCTS GREATER THAN 6" DEEP



**FIGURE B**



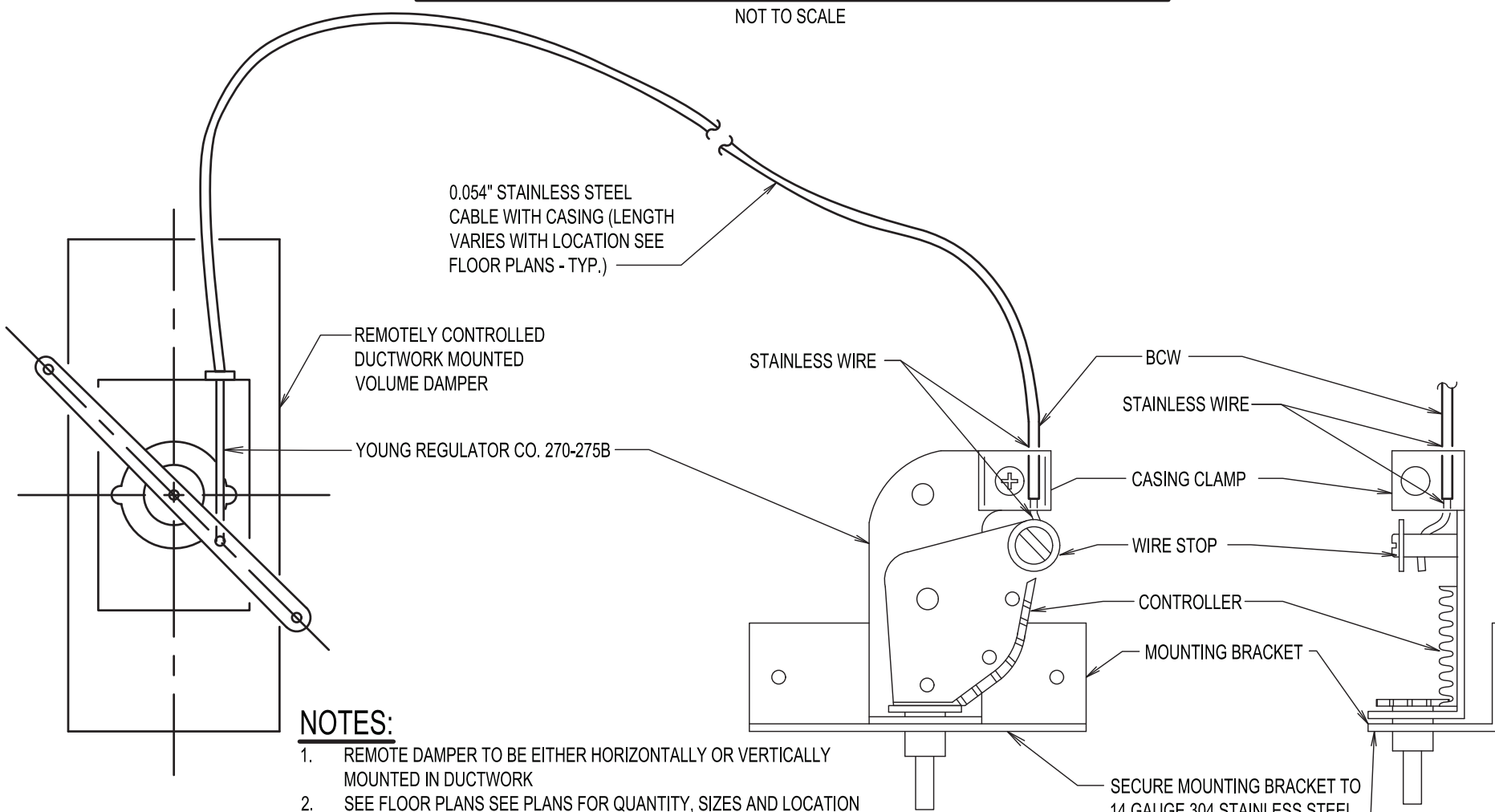
**ROUND DAMPER**



**BEARING OPTION**

**VOLUME DAMPERS - SINGLE BLADE TYPE - DETAIL**

NOT TO SCALE

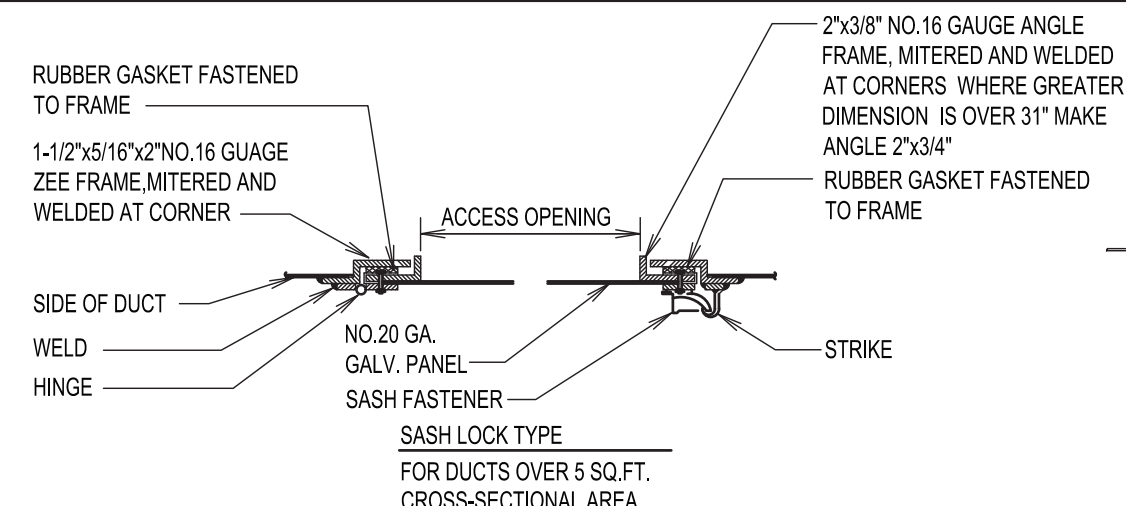


**NOTES:**

1. REMOTE DAMPER TO BE EITHER HORIZONTALLY OR VERTICALLY MOUNTED IN DUCTWORK
2. SEE FLOOR PLANS SEE PLANS FOR QUANTITY, SIZES AND LOCATION OF COD'S
3. CONTRACTOR SHALL PROVIDE A UNIQUE LABEL FOR EACH DAMPER OPERATOR INDICATING DAMPER TAG AND AREA SERVED. CABLE OPERATED DAMPER SHALL BE TAGGED ON PLAN FOR BALANCING CONTRACTOR.

**CABLE OPERATED DAMPER (COD) CONTROL DETAIL**

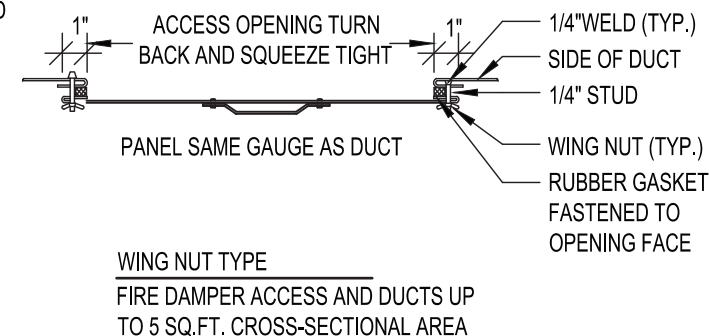
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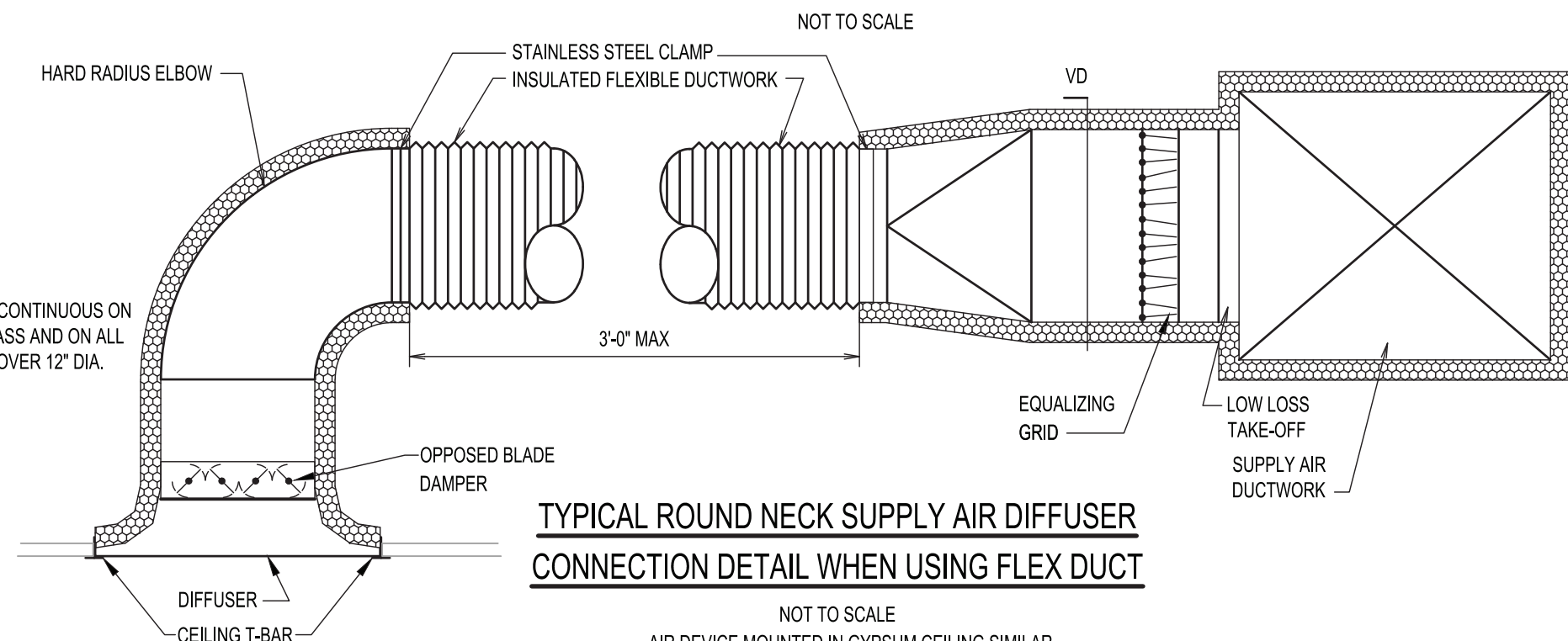
**NOTES:**

1. NO RIVETS, BOLTS OR FASTENING PROJECTIONS INSIDE DUCT

**DUCTWORK ACCESS PANEL INSTALLATION UNINSULATED DUCT**

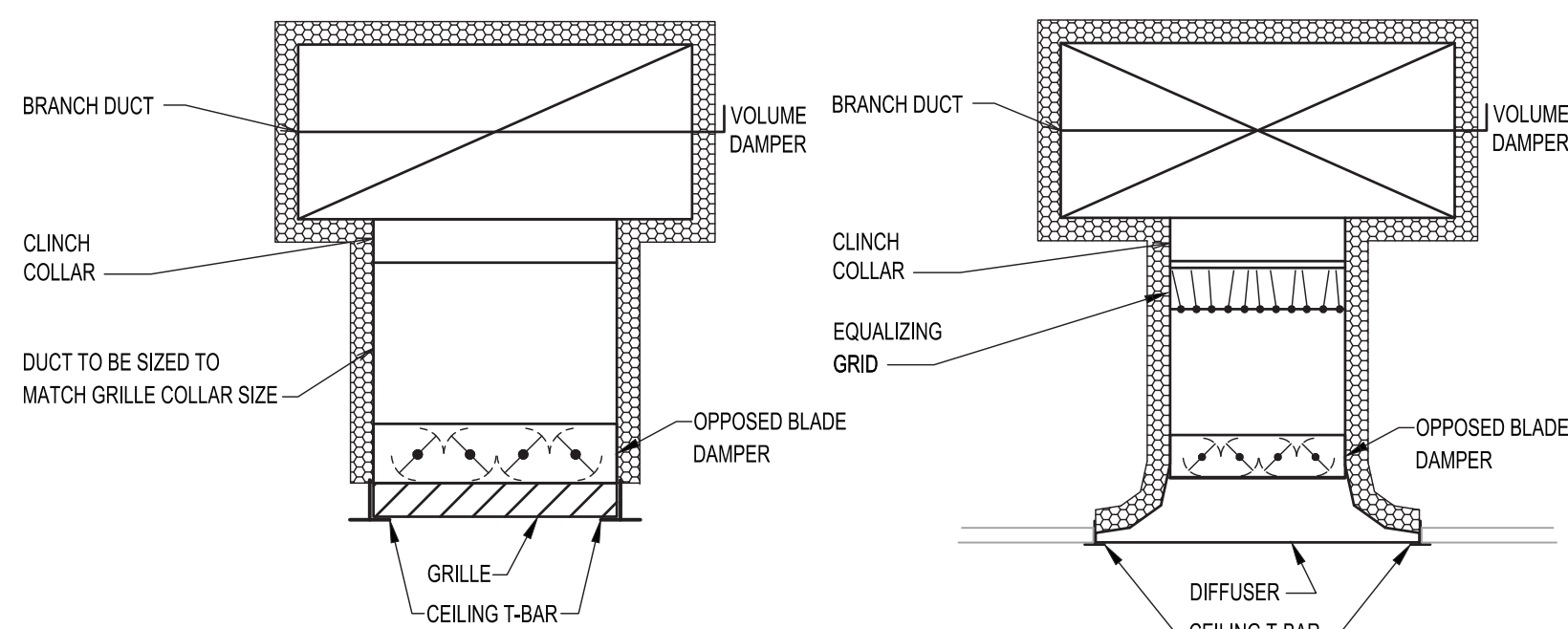


WING NUT TYPE  
FIRE DAMPER ACCESS AND DUCTS UP  
TO 5 SQ.FT. CROSS-SECTIONAL AREA



**TYPICAL ROUND NECK SUPPLY AIR DIFFUSER  
CONNECTION DETAIL WHEN USING FLEX DUCT**

NOT TO SCALE  
AIR DEVICE MOUNTED IN GYPSUM CEILING SIMILAR

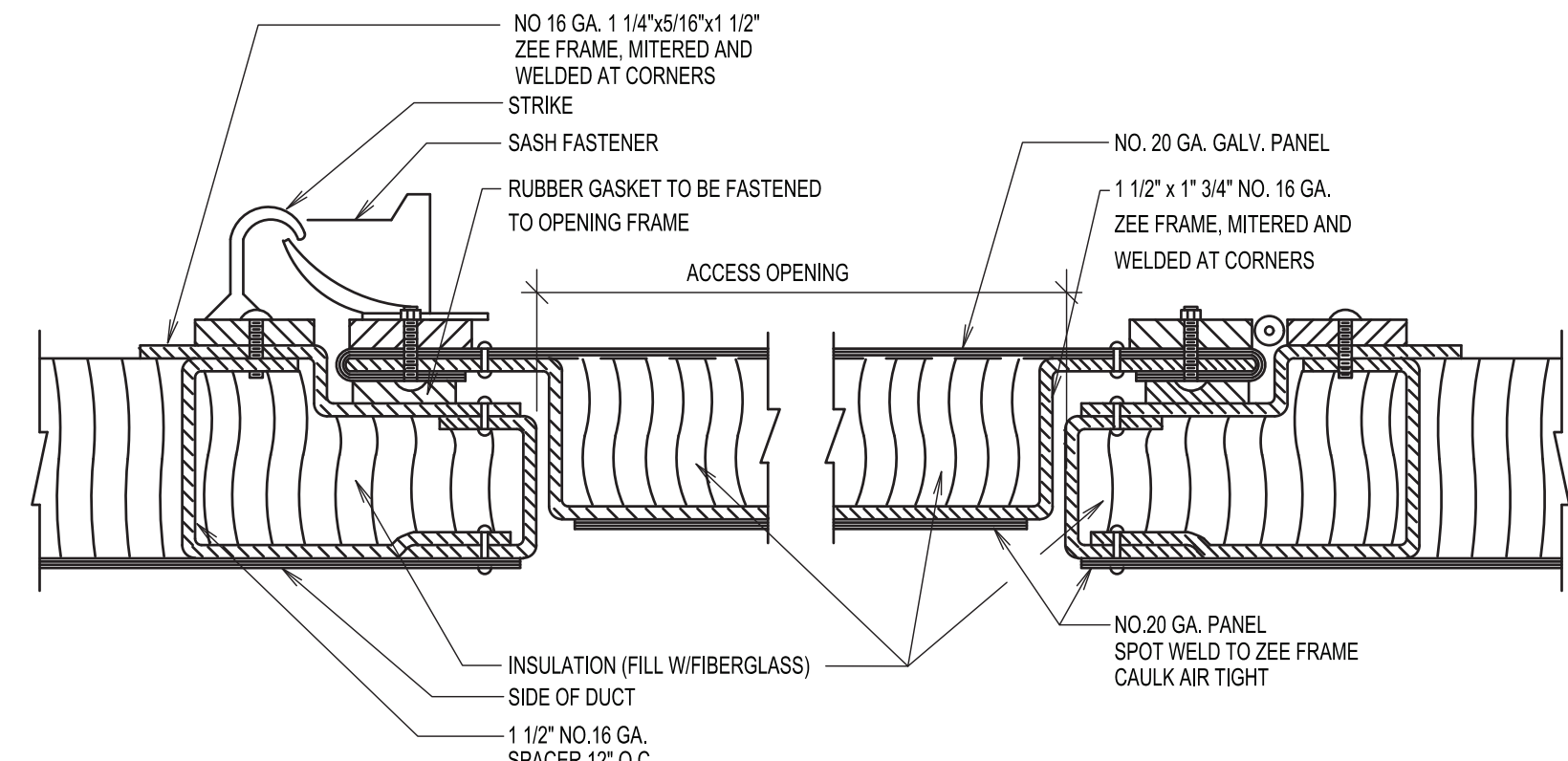


**TYPICAL EXHAUST AIR/RETURN REGISTER  
CONNECTION DETAIL**

NOT TO SCALE  
AIR DEVICE MOUNTED IN GYPSUM CEILING SIMILAR

**TYPICAL ROUND NECK SUPPLY AIR DIFFUSER  
CONNECTION DETAIL**

NOT TO SCALE  
AIR DEVICE MOUNTED IN GYPSUM CEILING SIMILAR



**DUCTWORK ACCESS PANEL INSTALLATION INSULATED DUCT**

NOT TO SCALE

# PURCHASE COLLEGE

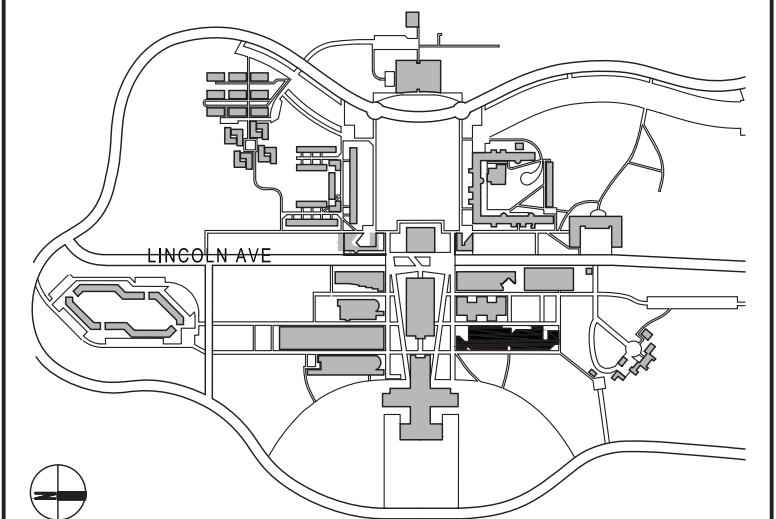
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VISUAL ARTS BUILDING  
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KEY PLAN LOT 0000 BLOCK 0000

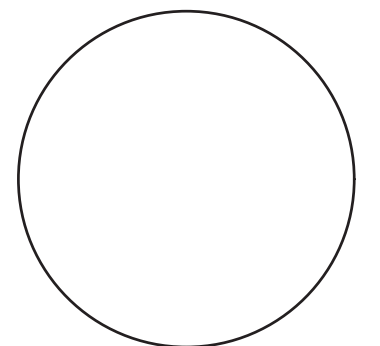


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| NO | DATE | DESCRIPTION |
|----|------|-------------|
|----|------|-------------|

ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:

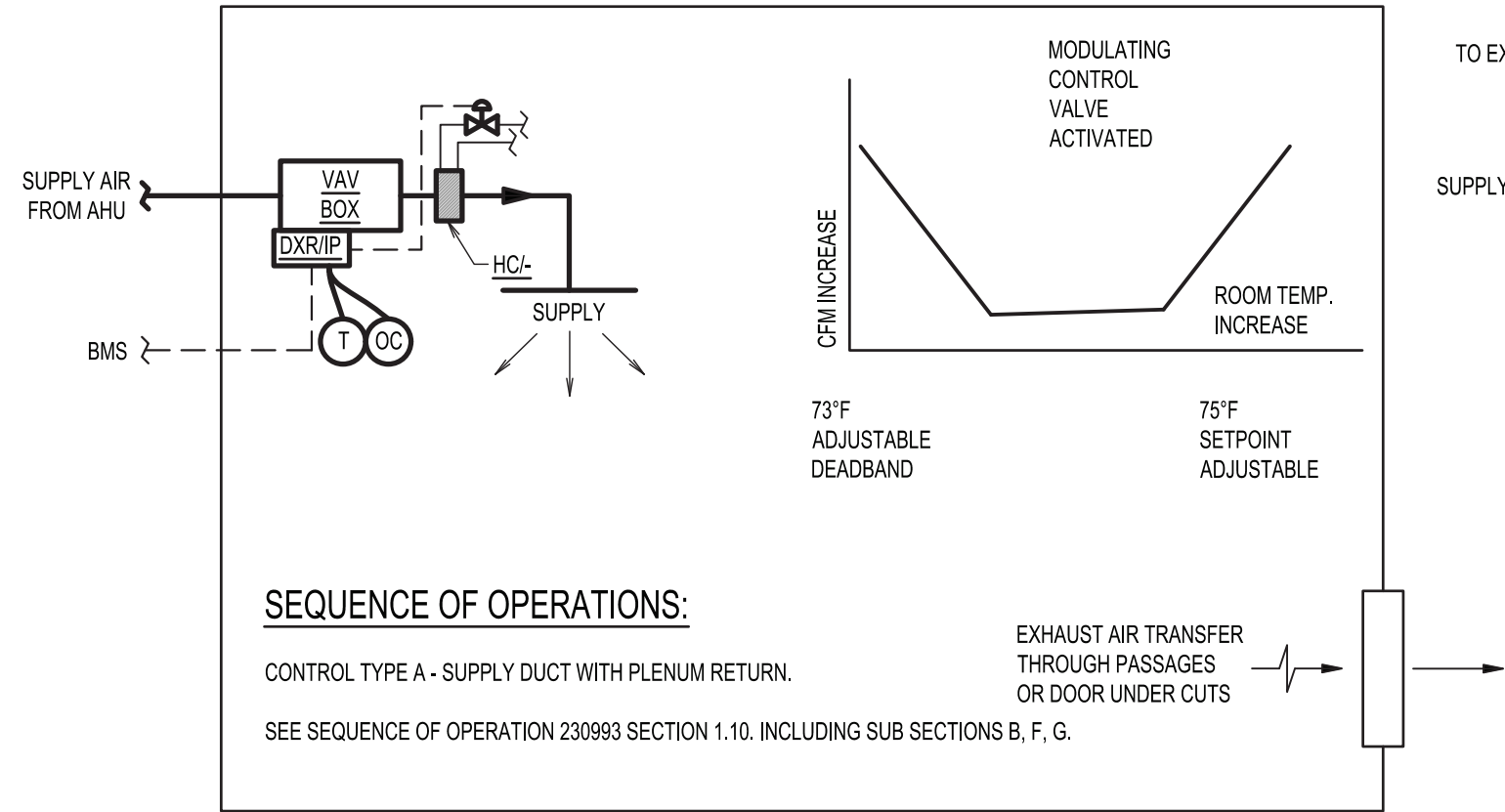
## MECHANICAL DETAILS (SHEET 3 OF 3)

DRAWING NUMBER DRAWING 11 OF 13

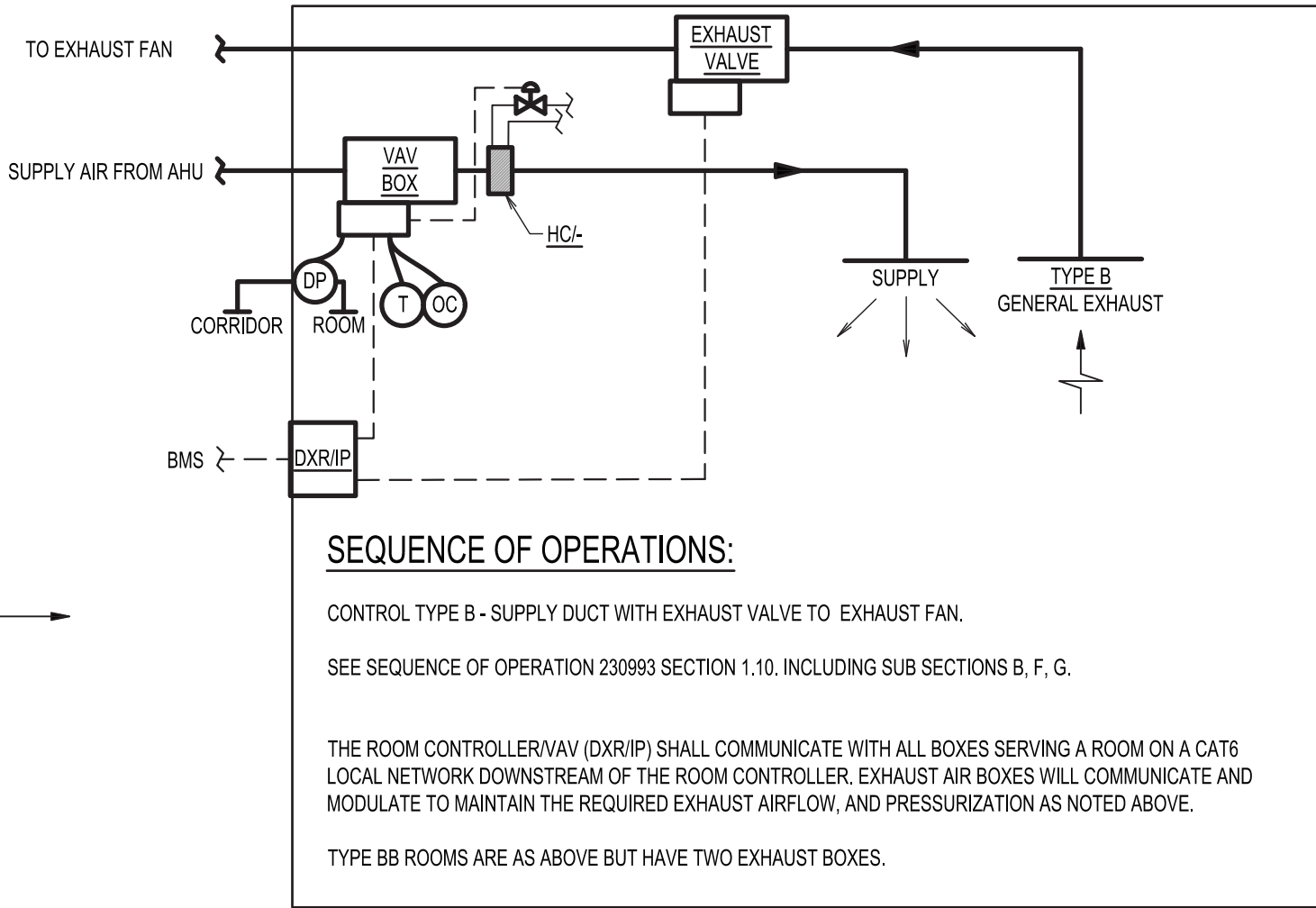
# M-303.00

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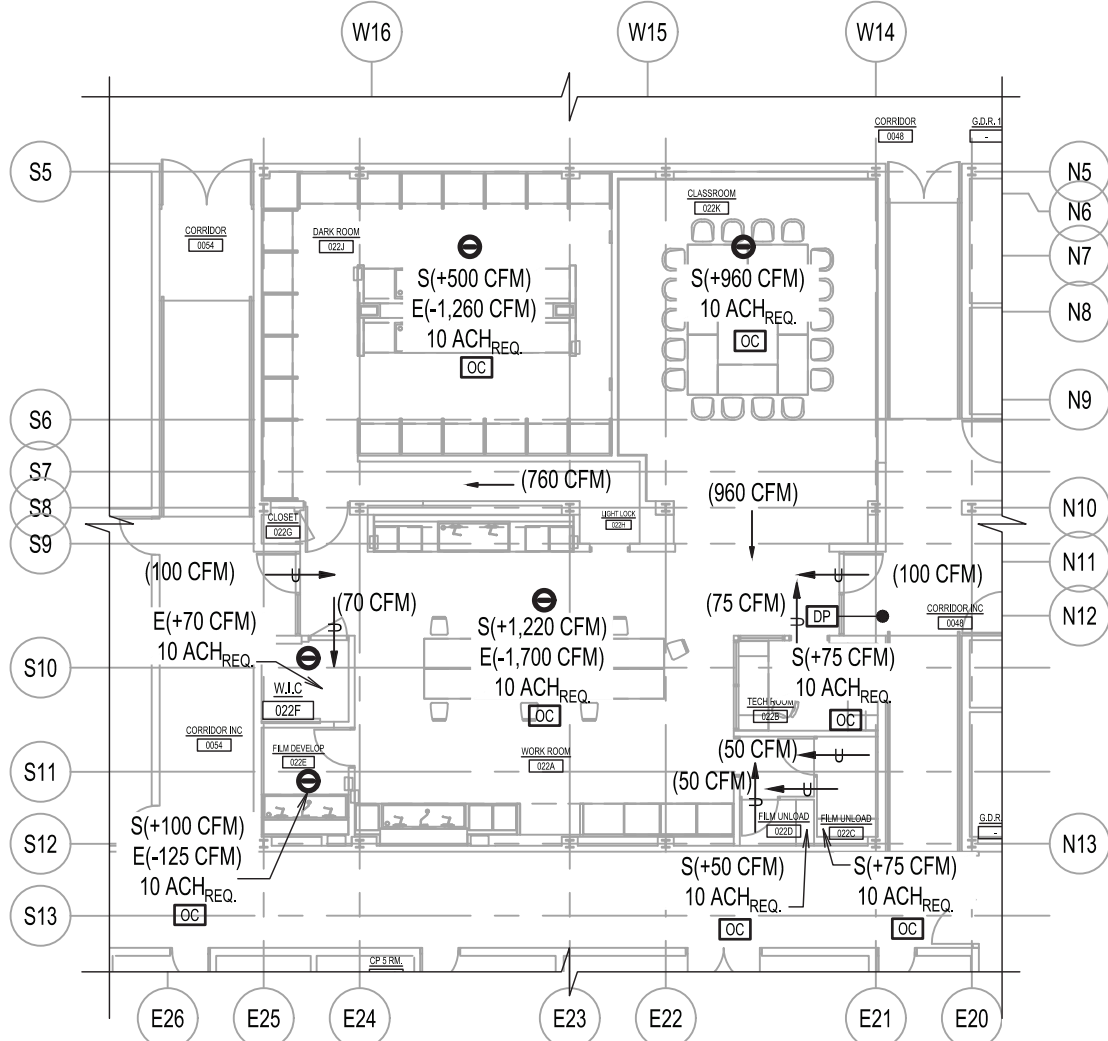
| ROOM BY ROOM PRESSURIZATION (PHASE 1) |              |              |              |            |         |                 |              |            |             |               |                |                   |                                |          |                  |              |            |         |
|---------------------------------------|--------------|--------------|--------------|------------|---------|-----------------|--------------|------------|-------------|---------------|----------------|-------------------|--------------------------------|----------|------------------|--------------|------------|---------|
| EQUIPMENT ID                          | COLUMN A     | COLUMN B     | COLUMN C     | COLUMN D   | ROOM ID | ROOM NAME       | CONTROL TYPE | CO2 SENSOR | OCC. SENSOR | PRESS. SENSOR | FLOOR AREA FT² | CEILING HEIGHT FT | OCCUPANT DENSITY # OF PPL/1000 | # OF PPL | PRESSURIZATION   |              |            | REMARKS |
|                                       | OCCUPIED     |              | UNOCCUPIED   |            |         |                 |              |            |             |               |                |                   |                                |          | NORMAL OPERATION | SETBACK HOUR | CFM OFFSET |         |
|                                       | MAX CFM      | MIN CFM      | MAX CFM      | MIN CFM    |         |                 |              |            |             |               |                |                   |                                |          |                  |              |            |         |
| VAV/1-0-14<br>EAV/1-0-4               | 500<br>1,260 | 500<br>960   | 500<br>1,260 | 420<br>260 | 022J    | DARK ROOM       | BB*          | No         | Yes         | Yes           | 824            | 9.2               | 25                             | 21       | (+)              | (+)          | 1,820      |         |
| VAV/1-0-15                            | 125          | 80           | 125          | 0          | 022B    | TECH ROOM       | A            | No         | No          | No            | 87             | 8.25              | 25                             | 2        | (-)              | (-)          | -1,720     |         |
|                                       |              |              |              |            | 022C    | FILM UNLOAD     |              |            |             |               | 42             | 8.25              | 25                             | 1        |                  |              |            |         |
|                                       |              |              |              |            | 022D    | FILM UNLOAD     |              |            |             |               | 24             | 8.25              | 25                             | 1        |                  |              |            |         |
|                                       |              |              |              |            |         |                 |              |            |             |               |                |                   |                                |          |                  |              |            |         |
| VAV/1-0-16<br>EAV/1-0-5               | 740<br>600   | 80<br>80     | 740<br>600   | 0<br>0     | 022K    | CLASSROOM       | A            | No         | No          | No            | 624            | 15.4              | 25                             | 16       |                  |              | 0          |         |
| VAV/1-0-17<br>EAV/1-0-6               | 1,325<br>965 | 1,325<br>255 | 1,325<br>965 | 110<br>225 | 022A    | WORK ROOM       | B            | No         | Yes         | No            | 916            | 15.4              | 25                             | 23       | (-)              | (-)          | -75        |         |
|                                       |              |              |              |            | 022E    | FILM DEVELOP.   |              | No         | No          | 66            | 8.25           | 25                | 2                              | (-)      | (-)              | -75          |            |         |
|                                       |              |              |              |            | 0022F   | FILM DEVELOP. 1 |              | No         | Yes         | 48            | 8.25           | 25                | 1                              | (-)      | (-)              | -75          |            |         |
|                                       |              |              |              |            |         |                 |              |            |             |               |                |                   |                                |          |                  |              |            |         |



SUPPLY AIR VAV WITH EXHAUST AIR TRANSFER  
ROOM DIAGRAM - TYPE A  
NOT TO SCALE



SUPPLY AIR VAV WITH EXHAUST  
ROOM DIAGRAM - TYPE B & BB  
NOT TO SCALE



BASEMENT ROOM BY ROOM  
PRESSURIZATION PLAN  
SCALE:1/16"=1'-0"

# PURCHASE COLLEGE

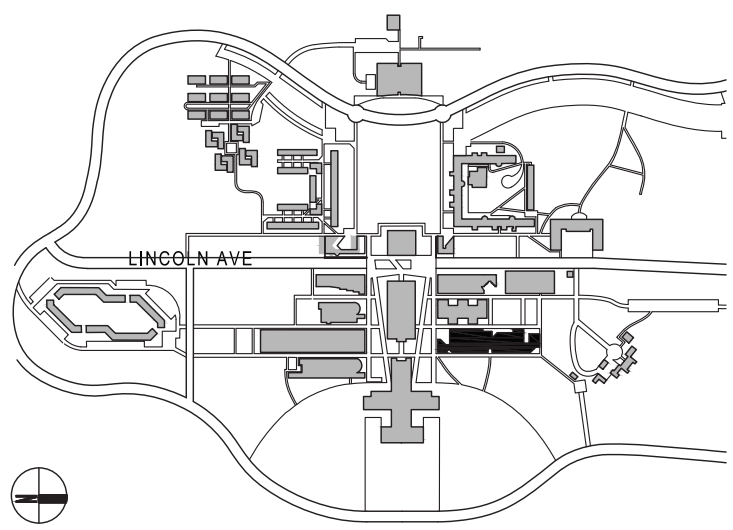
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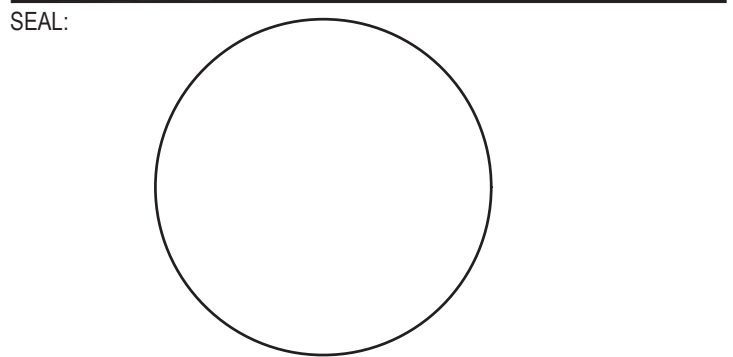
KEY PLAN LOT 0000 BLOCK 0000



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|--------|------|-------------|
| ISSUES |      |             |

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

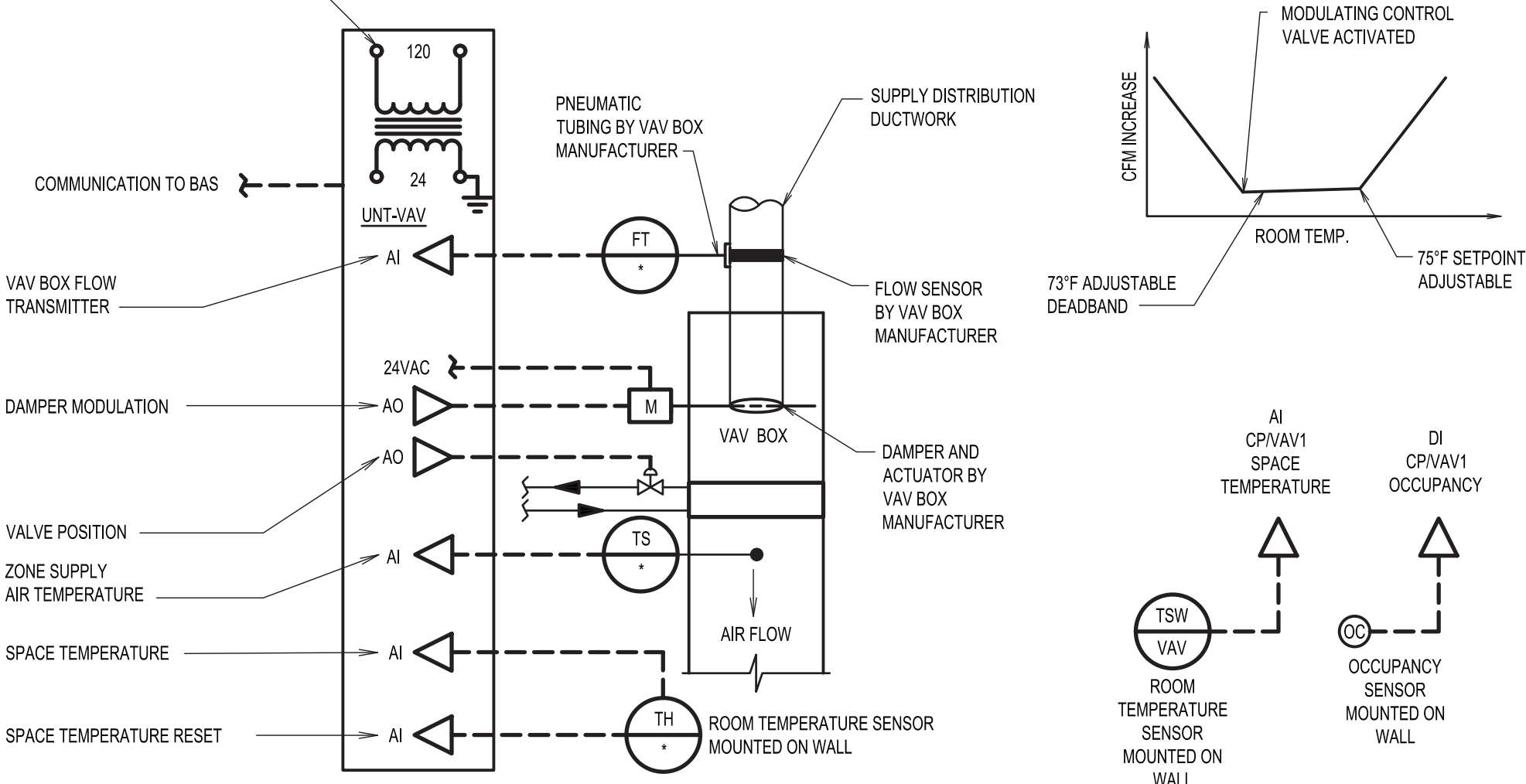
DRAWING TITLE:  
**MECHANICAL CONTROLS**  
**(SHEET 1 OF 2)**

DRAWING NUMBER DRAWING 12 OF 13

# M-401.00

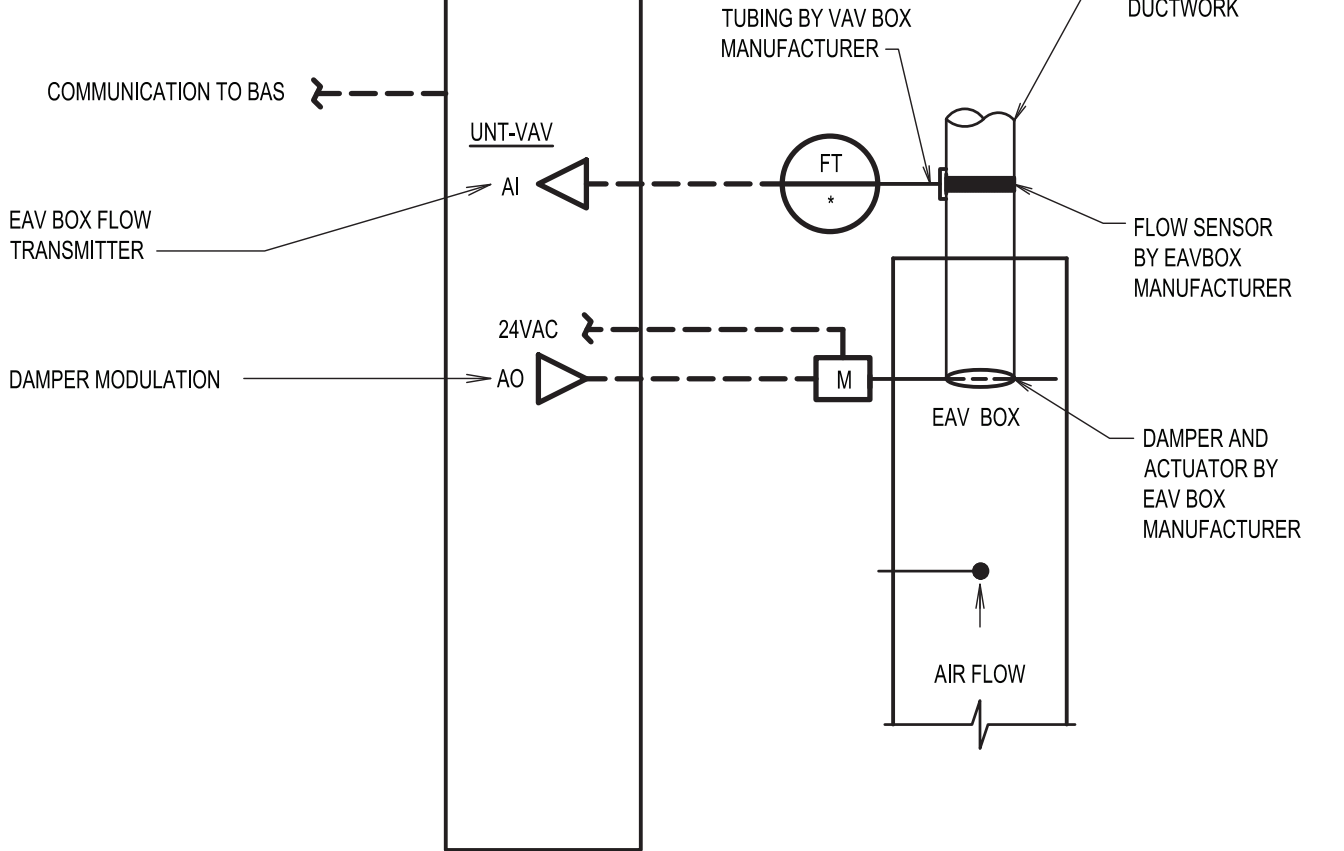


120 VAC POWER WIRING BY DIVISION 26  
ELECTRICAL. VAV BOX MANUFACTURER SHALL  
FURNISH & INSTALL 24 VAC CONTROL  
TRANSFORMER WITH DISCONNECT SWITCH  
WITHIN SEPARATE COMPARTMENT IN VAV BOX  
ENCLOSURE FOR UNITARY CONTROLLER

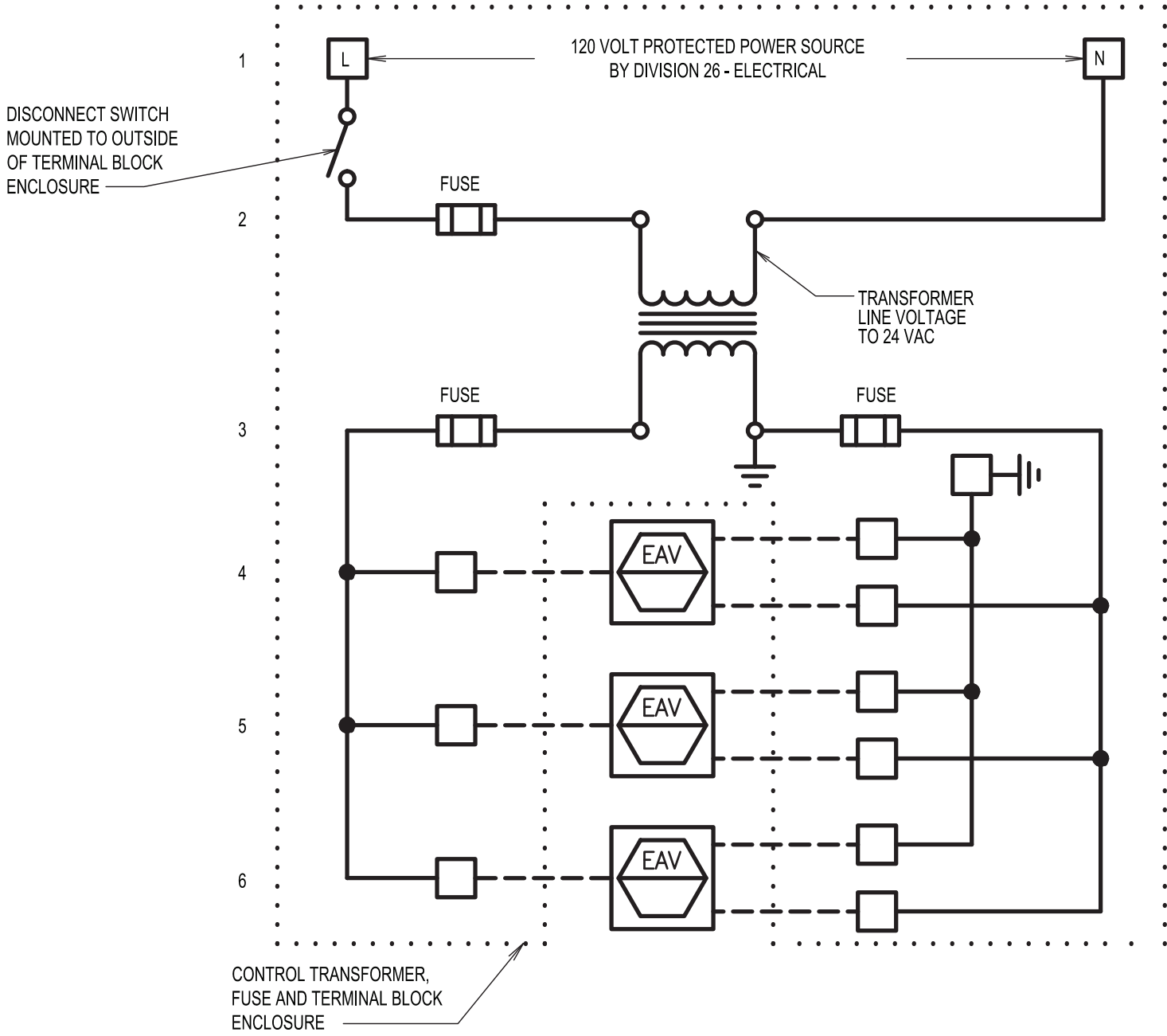


TYPICAL CONTROL DIAGRAM FOR SUPPLY VAV BOX  
WITH REHEAT HOT WATER (RHW) COIL

24 VAC POWER WIRING BY DIVISION  
23 ELECTRICAL FROM  
TRANSFORMER FOR POWER  
DISTRIBUTION PROVIDED BY  
ELECTRICAL CONTRACTOR.



TYPICAL CONTROL DIAGRAM  
FOR EXHAUST AIRFLOW VALVE



CONTROL TRANSFORMER POWER DISTRIBUTION  
DIAGRAM FOR EXHAUST AIR VAV BOX CONTROLLERS  
(TYPICAL FOR ALL EXHAUST AIR VAV CONTROLLERS)

# PURCHASE COLLEGE

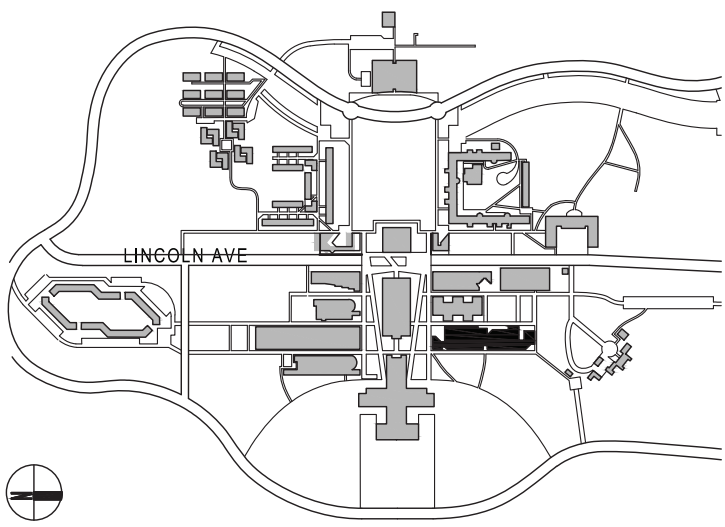
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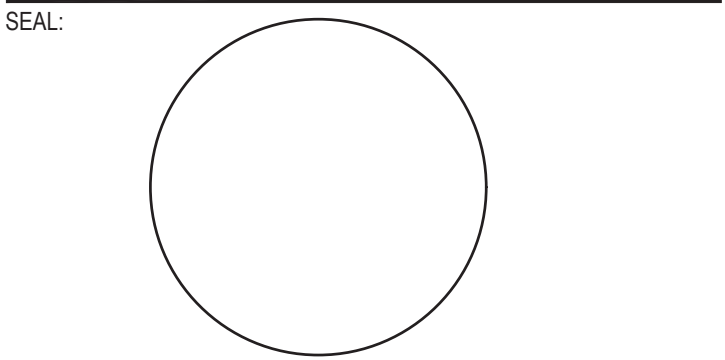
KEY PLAN LOT 0000 BLOCK 0000



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NO DATE DESCRIPTION  
ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-20-24

DRAWING TITLE:  
**MECHANICAL CONTROLS  
(SHEET 2 OF 2)**

DRAWING NUMBER DRAWING 13 OF 13

# M-402.00