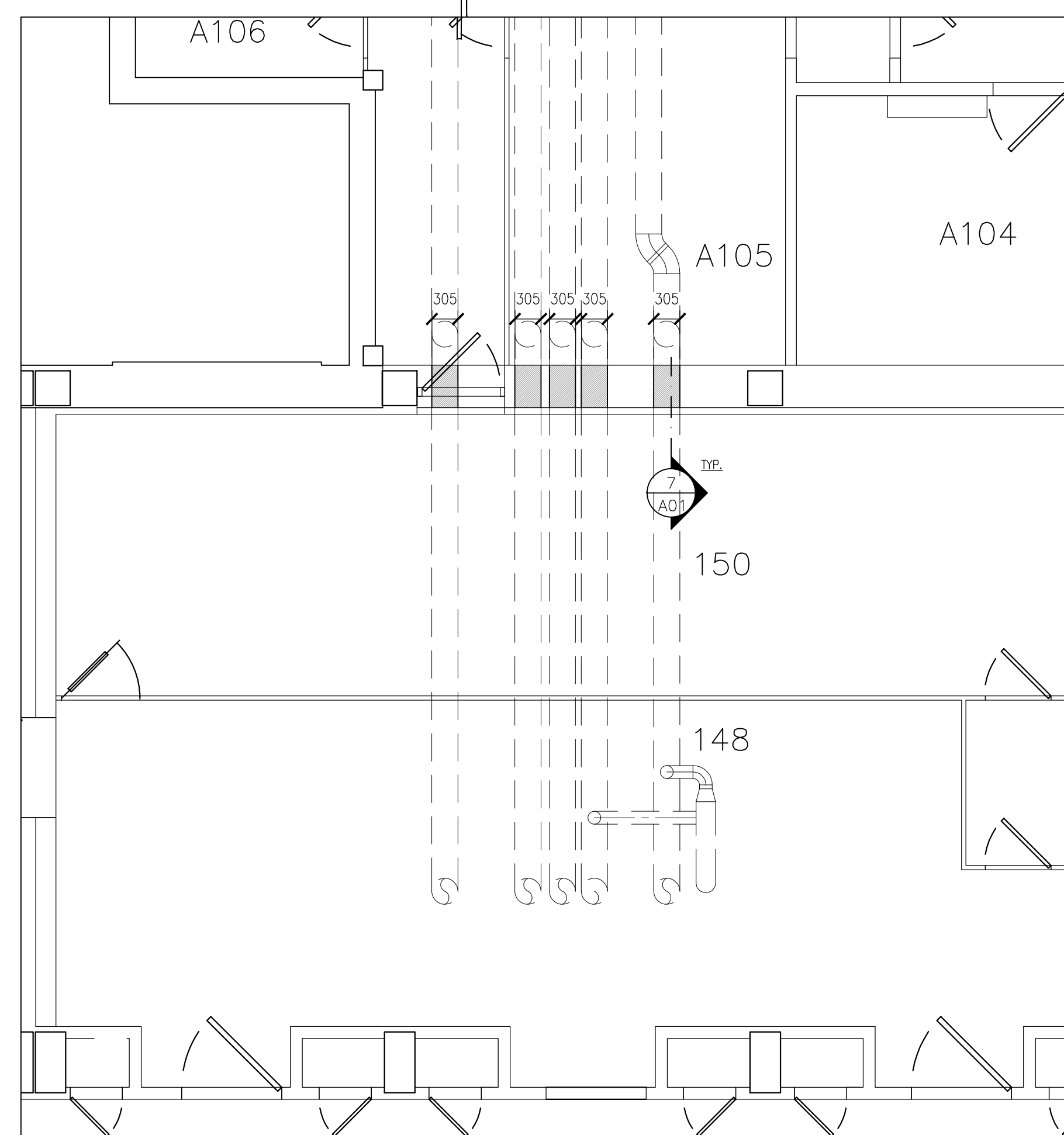
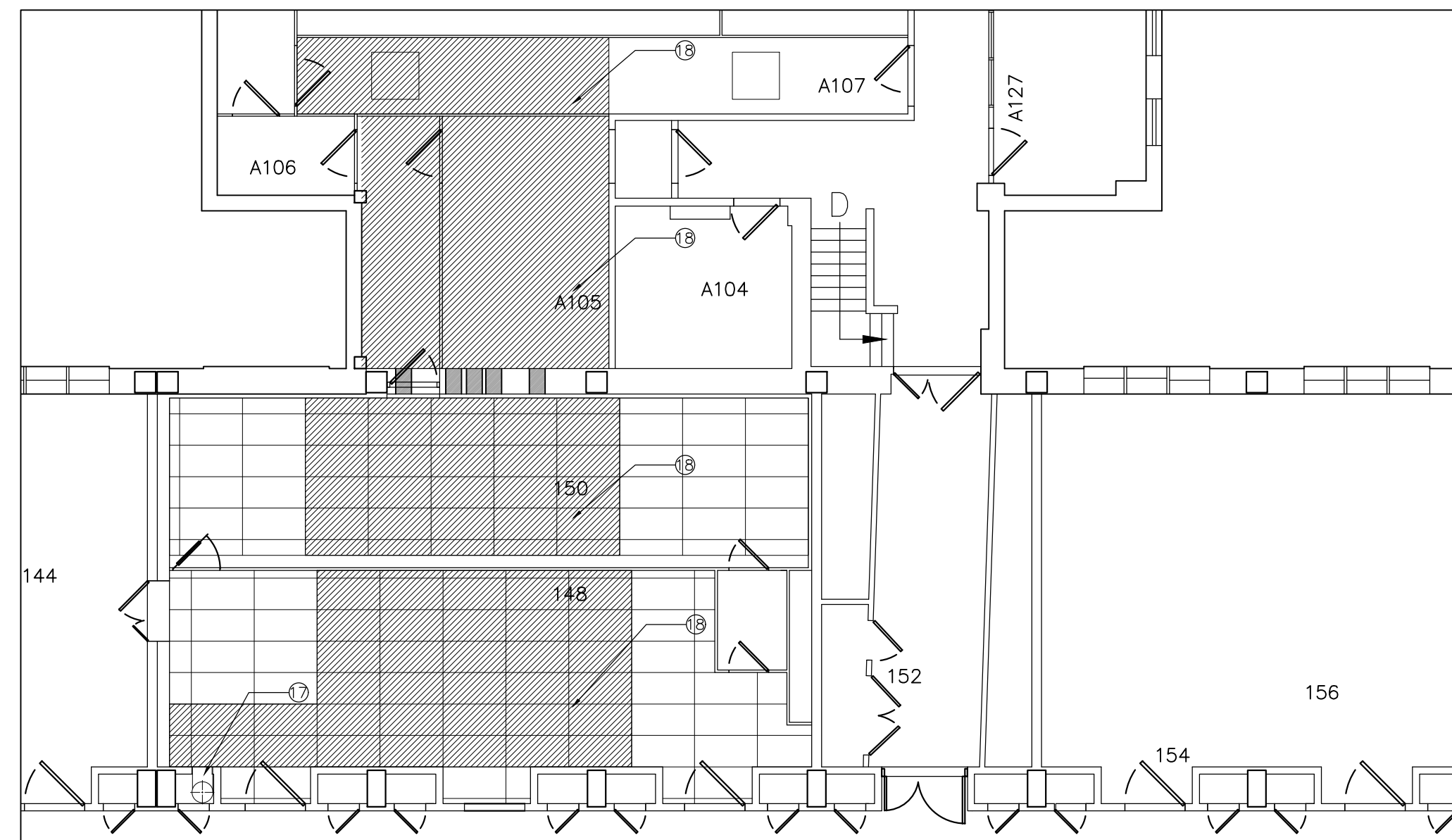


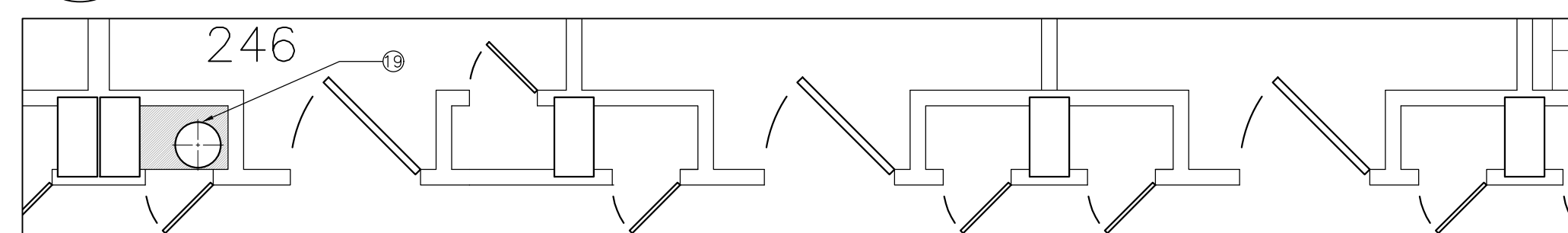
1 PARTIAL PLAN - ROOF LEVEL
SCALE = 1:50



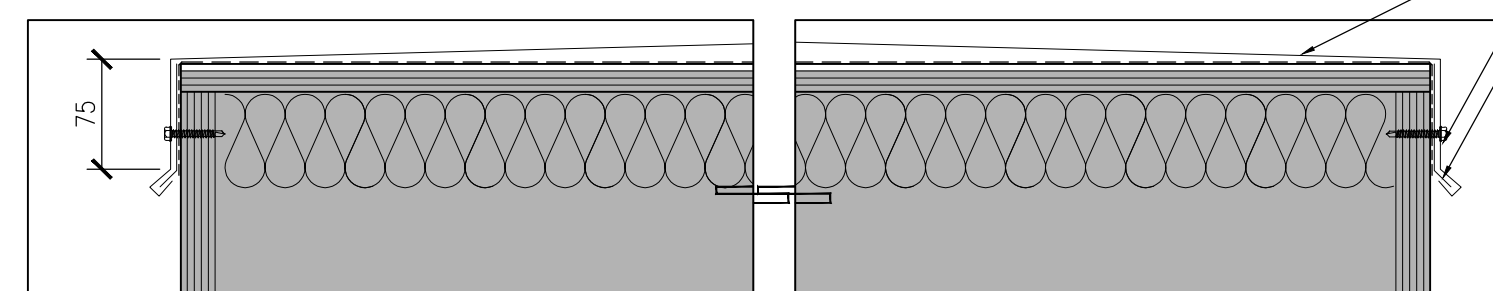
3 PARTIAL PLAN - ROOM 148 & 150 LEVEL
SCALE = 1:50



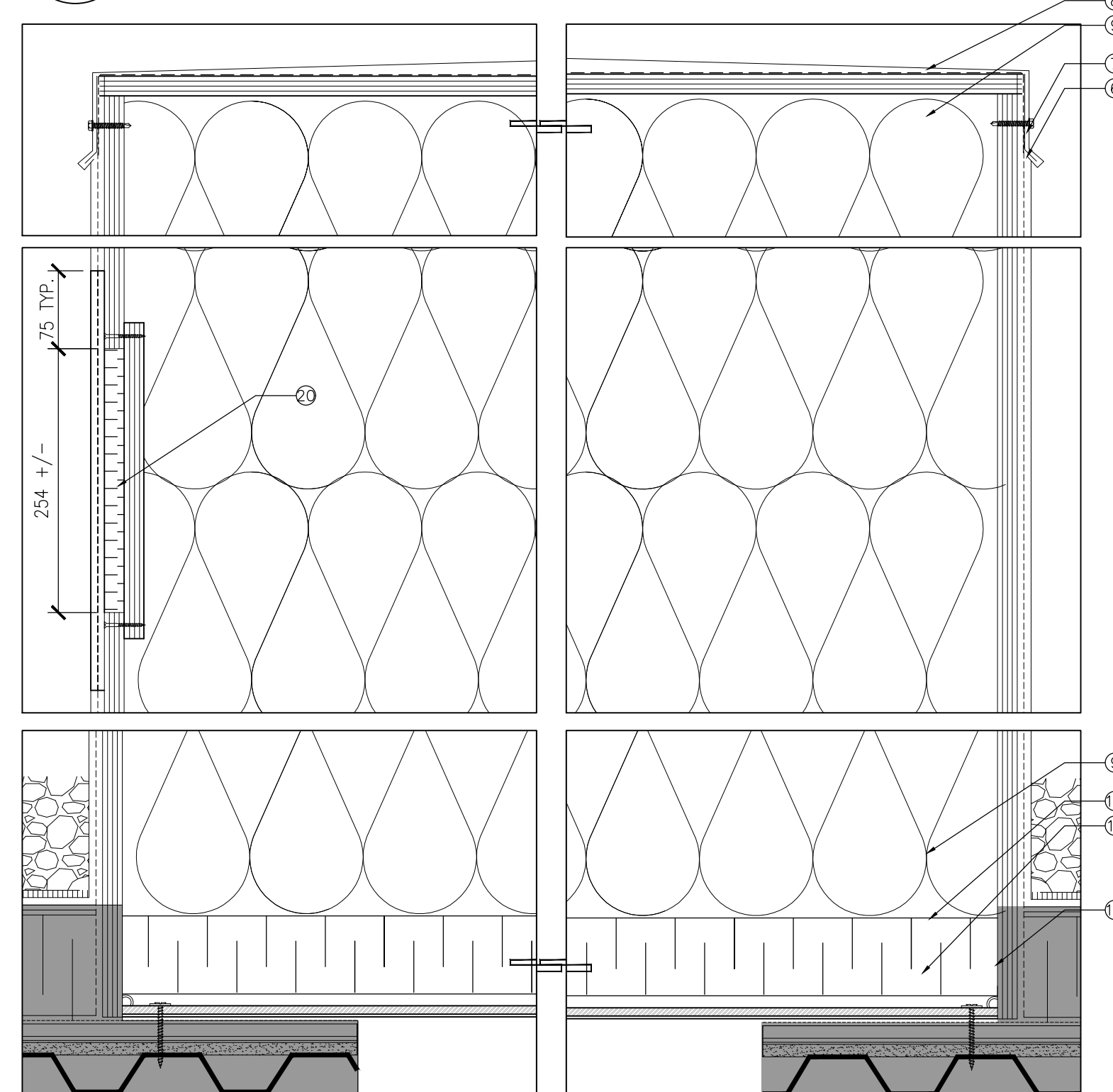
2 PARTIAL CEILING PLAN - ROOM 148 & 150 LEVEL
SCALE = 1:50



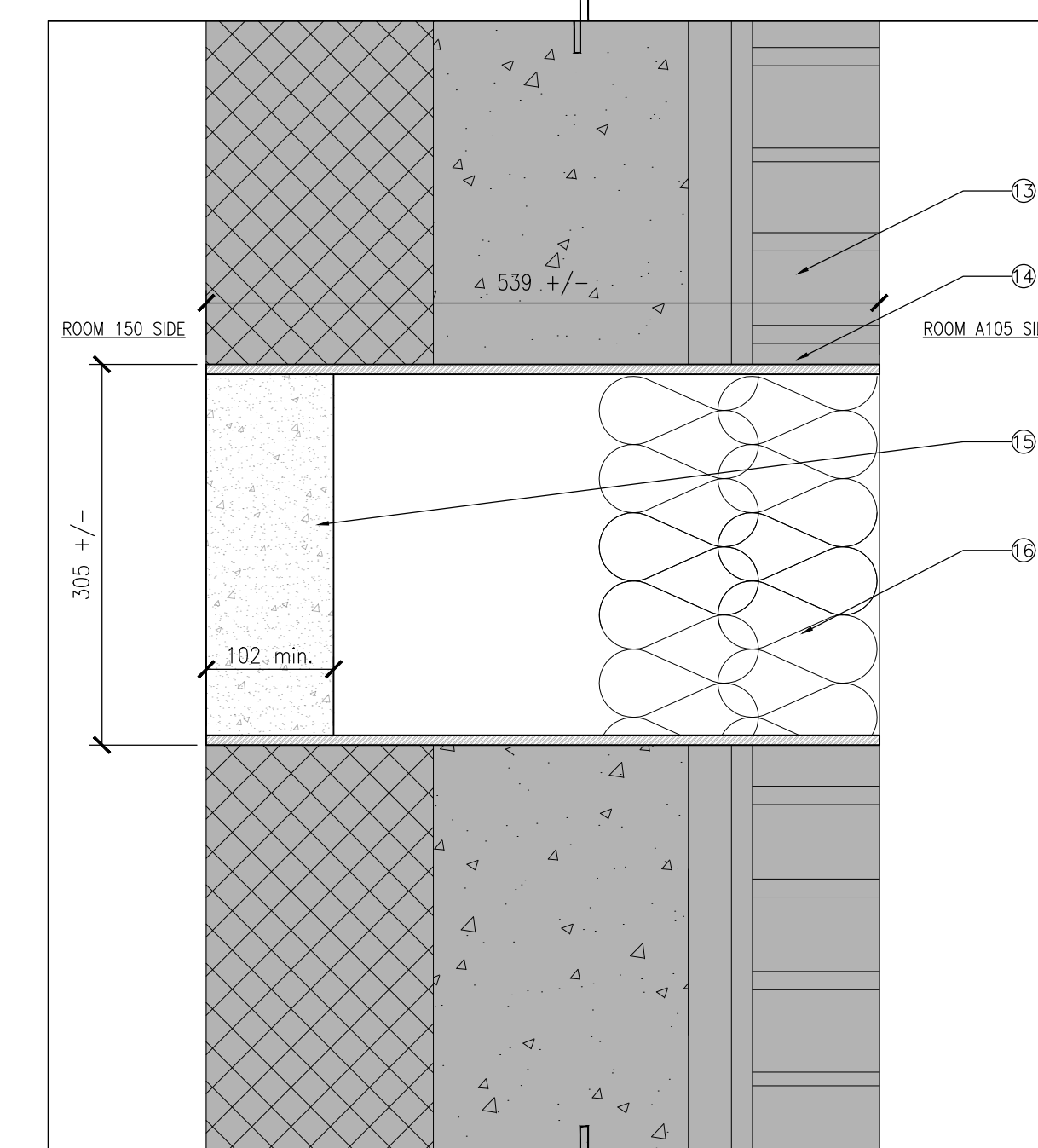
4 PARTIAL CEILING PLAN - 2ND AND 3RD FLOOR SHAFT LEVELS
SCALE = 1:50



5 DETAIL @ NEW CURB CAP - TYP.
SCALE = 1:5



6 DETAIL @ NEW CURB CAP - DUCT PENETRATION
SCALE = 1:5



7 DETAIL @ FIRESTOPPING - DUCT PENETRATION TYP.
SCALE = 1:5

DRAWING NOTES - SHEET A01
THESE NOTES APPLY TO DRAWING SHEET A01 ONLY

- EXISTING EXHAUST FAN AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR MORE DETAIL.
- EXISTING THALER JACKS TO REMAIN. REMOVE GUIDE WIRES TO STACKS ONLY.
- EXISTING FAN CURB TO REMAIN c/w NEW CAP SHEET AND COVER. REFER TO DETAIL THIS SHEET FOR MORE INFORMATION.
- EXISTING DUCTWORK AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION. REMOVE ALL SUPPORTS, SLEEPERS OR CURBS WHERE REMOVED. PROVIDE NEW MODIFIED BITUMEN CAP SHEET WITH MIN. 305mm OVERLAP TO EXISTING SHEET. SEAL WITH "SOPREMA" MODIFIED BITUMEN CAULKING.
- REMOVE EXISTING CURB COVER, EXISTING DUCT CURB TO REMAIN. SUPPLY AND INSTALL NEW CAP SHEET AND COVER. REFER TO DETAIL THIS SHEET FOR MORE INFORMATION.
- PROVIDE NEW MILL FINISH ALUM. (220A) CAP FLASHING SECURED WITH ALUM. CLIPS SCREWED INTO EXISTING CURB STRUCTURE WITH S.S. SCREWS C/W NEOPRENE WASHERS. DRIP EDGE TO ALL 4 SIDES. ENSURE WEATHER TIGHT SEAL TO MEM CAP SHEET AND BASE.
- CAULK AROUND ALL PENETRATIONS. SEAL WITH "SOPREMA" MODIFIED BITUMEN CAULKING.
- CONSTRUCT NEW COVER TO EXISTING ENCLOSURE: 19mm PRESSURE TREATED PLYWOOD FASTENED TO EXISTING STRUCTURE c/w NEW ROOF MEMBRANE, MILL FINISH ALUM. (220A) COVER FLASHING, SLOPED TO ALL FOUR SIDES, SEALED INTO ROOF MEMBRANE "SOPREMA" OR SIMILAR CAP SHEET, CARRY NEW CAP SHEET MIN. 25mm OVER VERTICAL EDGE TO OVERLAP EXISTING CAP SHEET.
- FILL ANY EXISTING VOID WITH BATT INSULATION.
- NEW 75mm POLYSTY INSULATION OVER EXISTING PENETRATION.
- 22mm GALVANIZED STEEL SHEET OVER EXISTING PENETRATION. FASTEN TO EXISTING DECK WITH 6.4mm DIA. METAL SCREW. PLATE TO EXTEND FULL INTERIOR DIMENSION OF EXISTING CURB.
- APPLY HILTI FIRESTOP CAULKING OR EQUAL AT ALL EDGES OF NEW STEEL COVER.
- EXISTING EXTERIOR WALL CONSTRUCTION
- CLEAN AND REMOVE EXISTING DUCT OPENING DEBRIS DOWN TO SOUND MATERIAL. SUPPLY AND INSTALL NEW 6mm SS SLEEVE GROUTED INTO EXISTING MASONRY. FLUSH WITH WALL SURFACES.
- APPLY NEW FIRESTOP SYSTEM: HILTI REFERENCE SYSTEM NO. C-AJ-0082. FORMS PERMITTED, BUT TO BE REMOVED AFTER FILL HAS CURED.
- PACK OPENING WITH ROXUL INSULATION FLUSH TO FACE OF EXISTING CONSTRUCTION.
- PROVIDE NEW ONE COMPONENT FIRESTOPPING WHERE NEW DUCT PENETRATES SHAF: HILTI CP 637 FIRESTOP MORTAR.
- REMOVE EXISTING CLEAN ROOM CEILING TILES TO FACILITATE MECHANICAL WORK. REFER TO MECHANICAL DRAWINGS FOR EXTENT. SUPPLY AND INSTALL NEW CLEAN ROOM CEILING TILES TO MATCH EXISTING. PROVIDE CUT SHEETS FOR NRC DEPARTMENTAL REPRESENTATIVE'S REVIEW PRIOR TO ORDER.
- REMOVE EXISTING STEEL PLATE AND CUT TO ACCOMMODATE NEW DUCT AND REINSTALL. APPLY NEW ONE COMPONENT FIRESTOPPING WHERE NEW DUCT PENETRATES STEEL PLATE AND WHERE PLATE ABUTS SHAF WALL: HILTI CP 606 FIRESTOP ACRYLIC SEALANT. TYPICAL FOR BOTH SECOND AND THIRD FLOOR PLATES.
- 19mm PRESSURE TREATED PLYWOOD OVER EXISTING OPENING IN CURB. INFILL WITH 19mm +/- RIGID INSULATION, COVER WITH MEM CAP SHEET TO MATCH EXISTING OVERLAP AS INDICATED. SEAL ALL CONNECTIONS WITH "SOPREMA" MODIFIED BITUMEN CAULKING.

NOTE:

CLEANROOM PROTOCOL: EXECUTE THIS WORK UNDER CLEANROOM CONDITIONS. USE FOOT COVERS IN SERVICE ROOMS AND FULL GOWNS IN CLEAN ROOMS. GOWNS PROVIDED BY NRC. MAINTAIN AN EXCEPTIONALY CLEAN WORK ENVIRONMENT TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

RESTRICTED MATERIALS: CARBON STEEL OR ZINC (GALV. STEEL) SHALL NOT BE EXPOSED WITHIN THE CLEANROOM OR SERVICE ROOM. USE ST, STL OR ALUMINUM MATERIAL INSTEAD, OR COAT WITH 2 COATS OF CATALYST CURED EPOXY PAINT. DO NOT USE SILICONE OR NATURAL RUBBER PRODUCTS WITHIN THE CLEANROOM OR SERVICE ROOM.

National Research Council Canada / Conseil national de recherches Canada
Real Property Planning and Management Branch / Planification et gestion des biens immobiliers

NRC - CNRC

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

KEY PLAN / PLAN CLÉ

| | | | |
|-----|------------|-------------------|------------|
| 0 | 18 01 2021 | ISSUED FOR TENDER | MOC |
| No. | Date | Revision | By: / Par: |

Date Printed / Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

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|---|---|-----|
| A | A Detail no. / No. du détail | A |
| B | B Location drawing no. / sur dessin no. | B C |
| C | C Drawing no. / dessin no. | |

project / projet
BLDG M-50
LAB 148, 150 EXHAUST SYSTEM UPGRADE

MONTREAL ROAD CAMPUS
drawing / dessin
ARCHITECTURAL PLAN
DEMOLITION AND NEW WORK

| | | | |
|---------------------|--------|-------------------|--------------------|
| designed / conçu | CE | date | JANUARY 2021 |
| drawn / dessiné | CE | scale / échelle | AS NOTED |
| checked / vérifié | M.O.C. | sheet / feuille | M01 of/de / de M06 |
| approved / approuvé | M.O.C. | W.D.no. / D.T.no. | A1- |

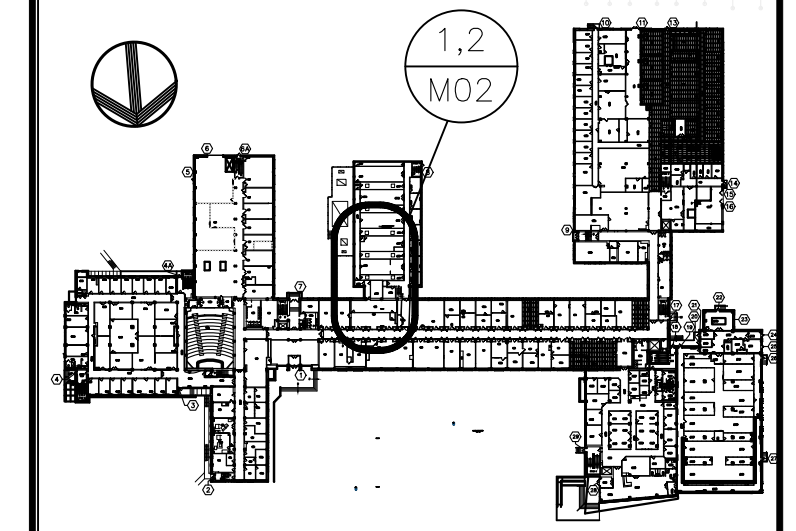
dwg.no. / dessin no.
5946-A01



GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- DRAWING LAYOUT AS SHOWN IS DIAGRAMMATIC. OFFSET AROUND SERVICES OR RELOCATE SERVICES AS REQUIRED TO ACCOMMODATE THE NEW DUCTWORK INSTALLATION.

KEY PLAN PLAN CLÉ



| No. | Date | Revision | By: (Plan) |
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| 0 | 18 01 2021 | ISSUED FOR TENDER | IAF |

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|---|--|---|------------------------------|---|---|---|---|--|----------------------------|---|
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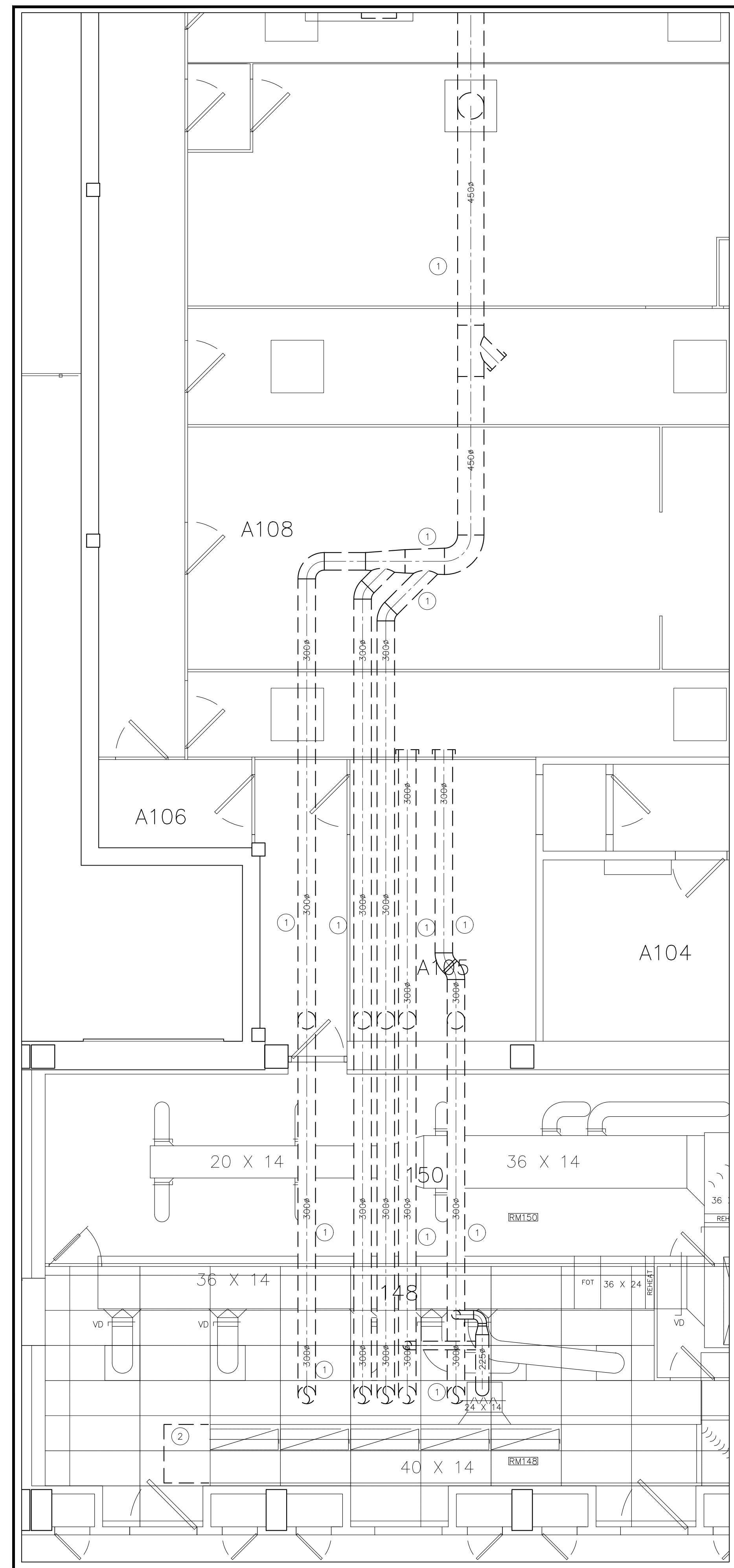
project / projet
BLDG M-50
LAB 148, 150 EXHAUST SYSTEM UPGRADE

MONTREAL ROAD CAMPUS

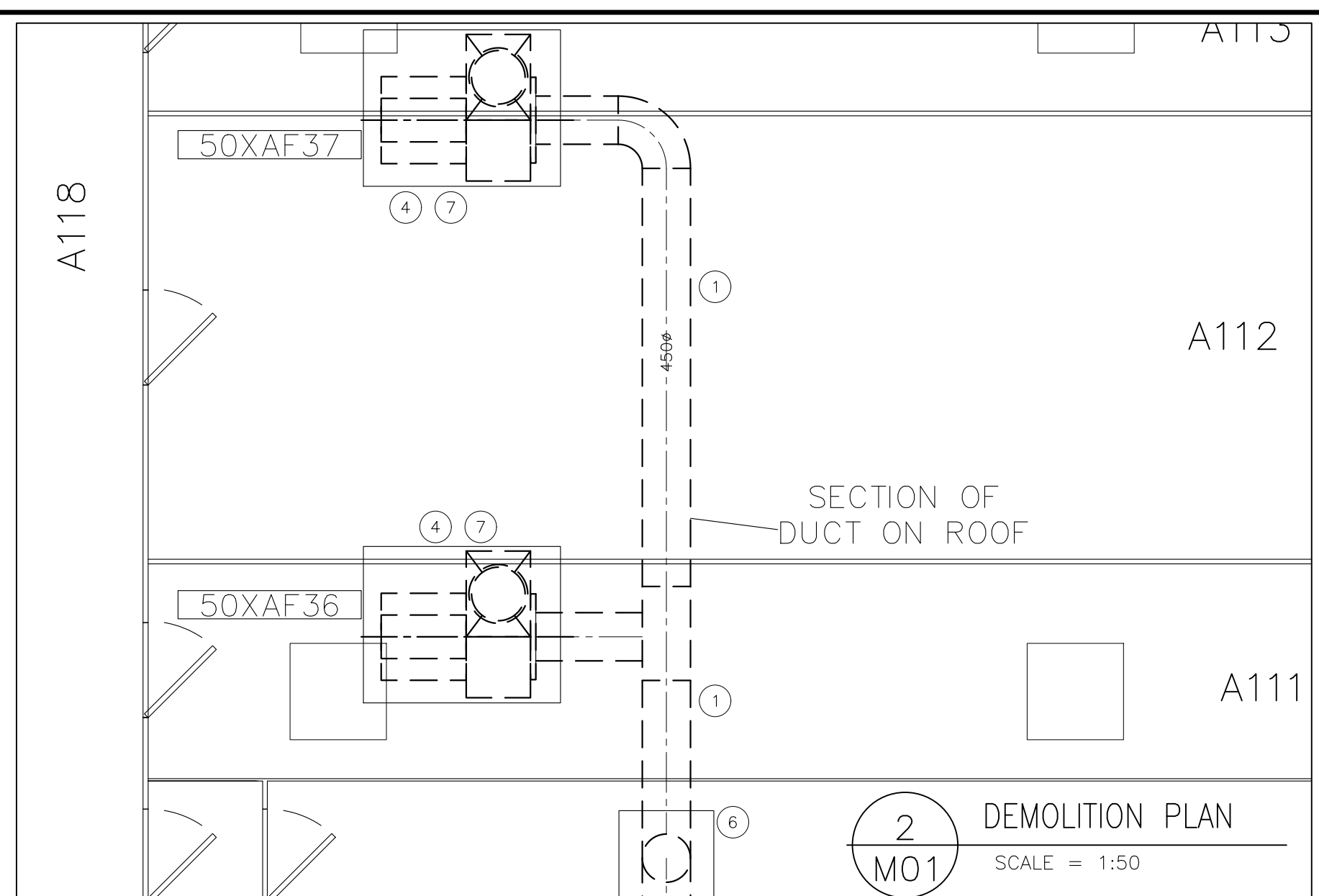
MECHANICAL PLAN
 DEMOLITION AND NEW WORK

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| designed / conçu | IAF. | date / date | JANUARY 2021 |
| drawn / dessiné | IAF. | scale / échelle | AS NOTED |
| checked / vérifié | M.O.C. | sheet / feuille | M01 of/de M01 |
| approved / approuvé | M.O.C. | W.D.no. / D.T.no. | A1- |

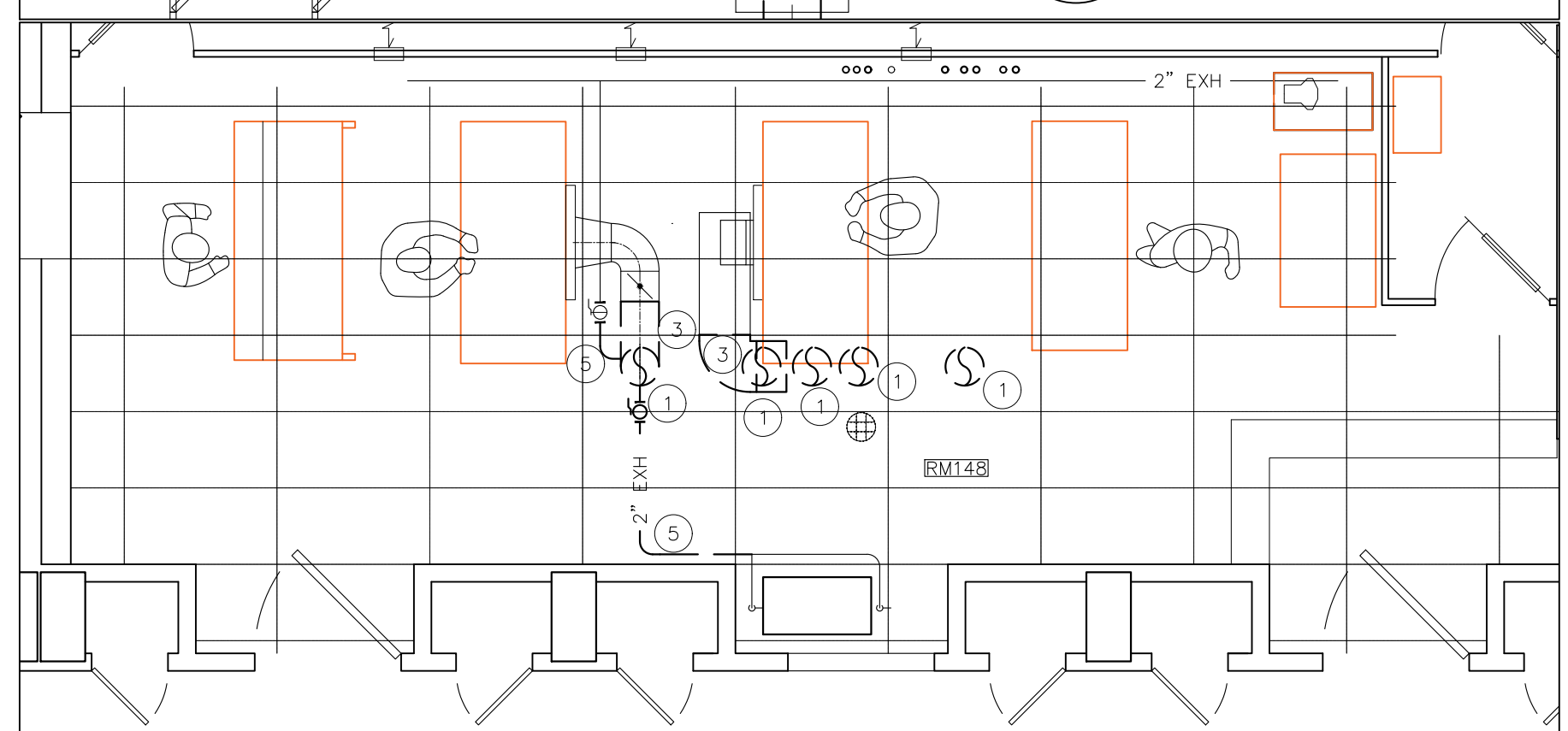
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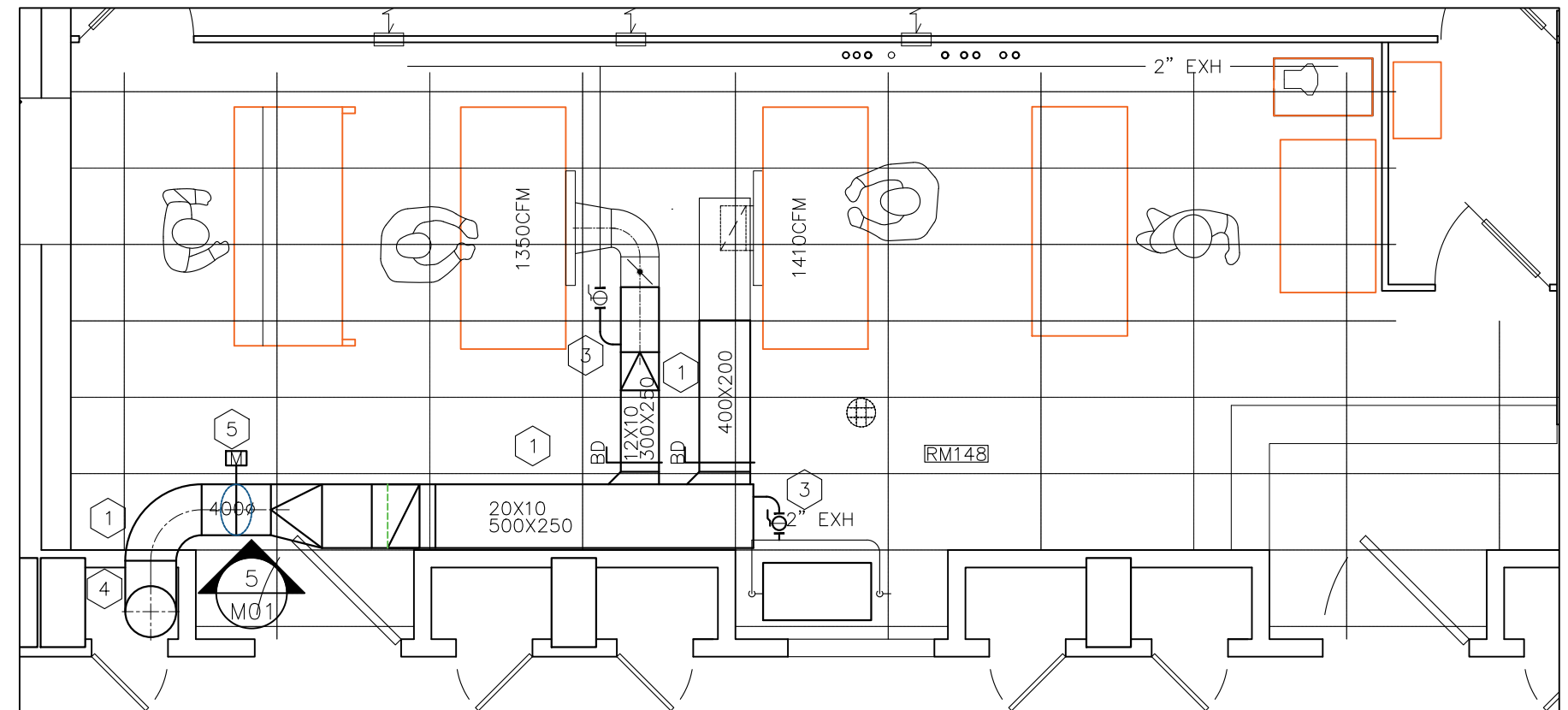
1 DEMOLITION PLAN
 SCALE = 1:50



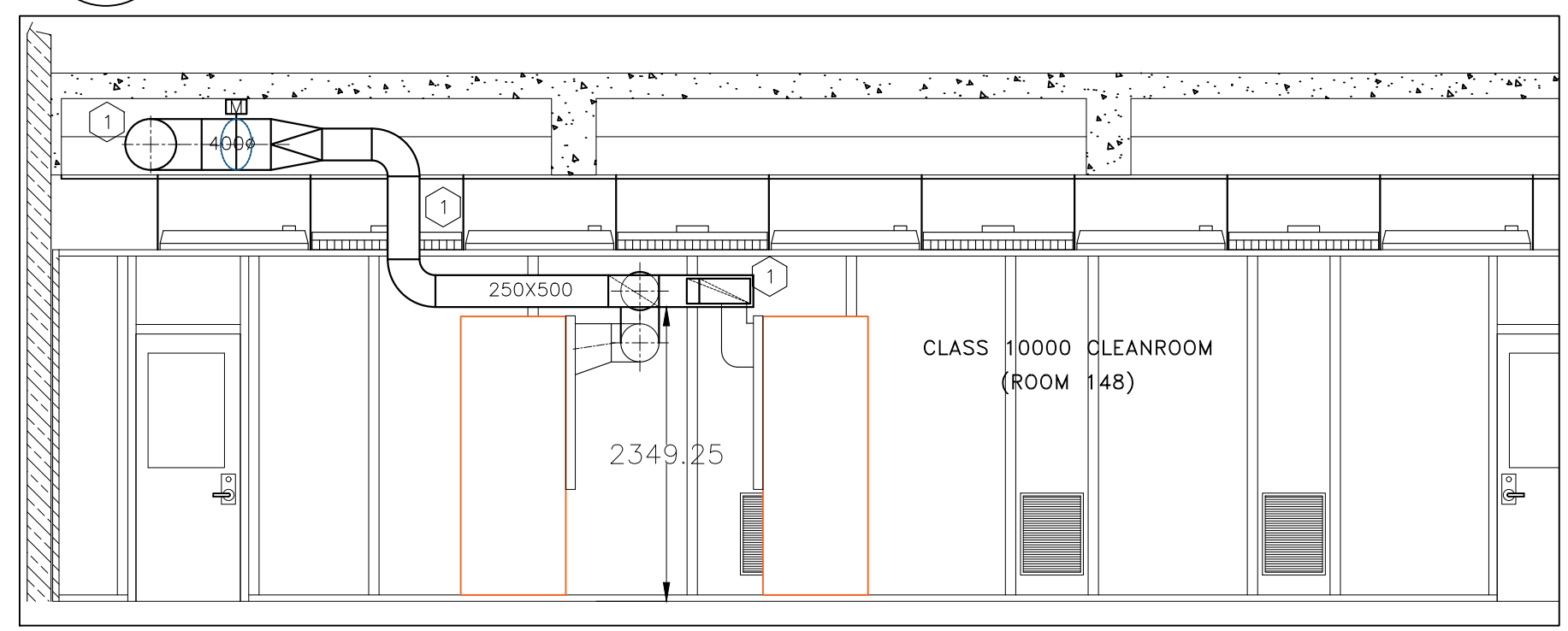
2 DEMOLITION PLAN
 SCALE = 1:50



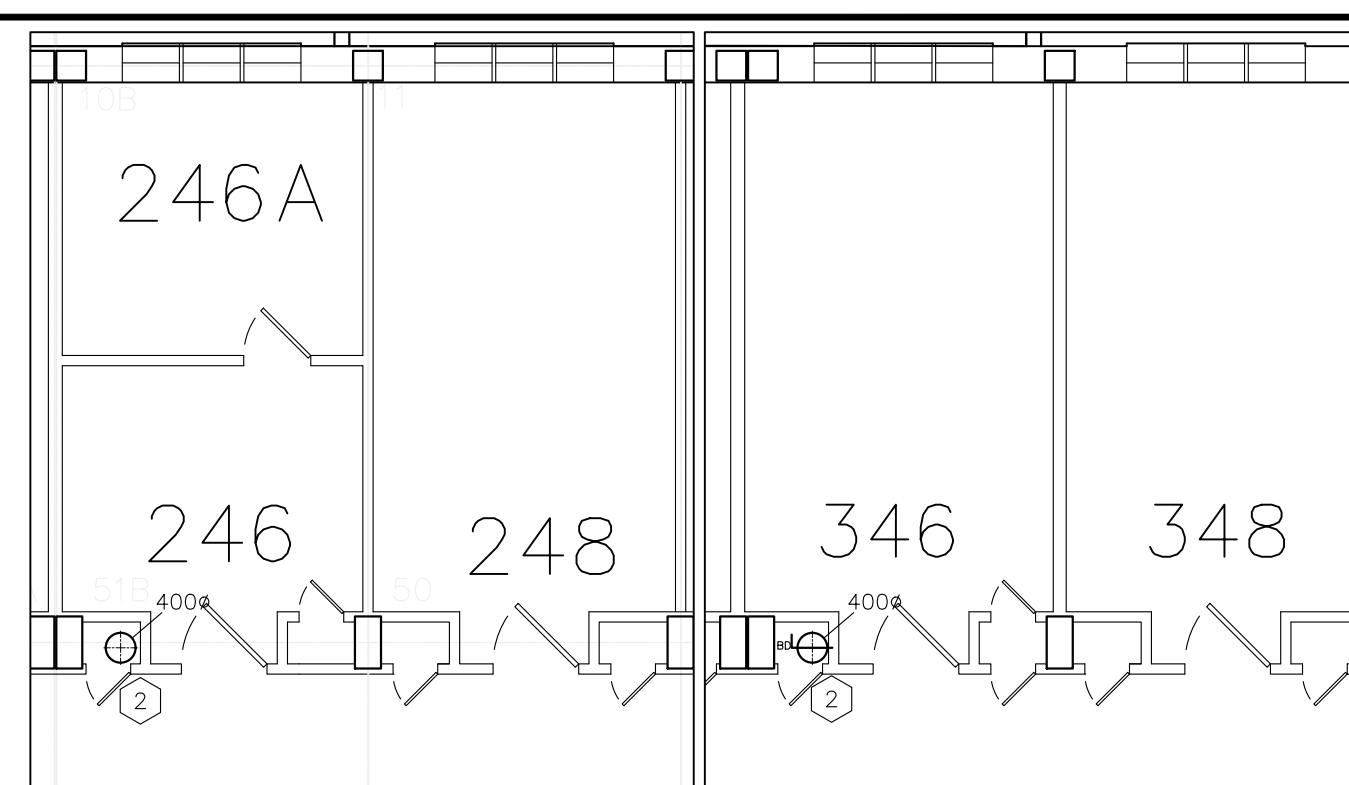
3 DEMOLITION PLAN
 SCALE = 1:50



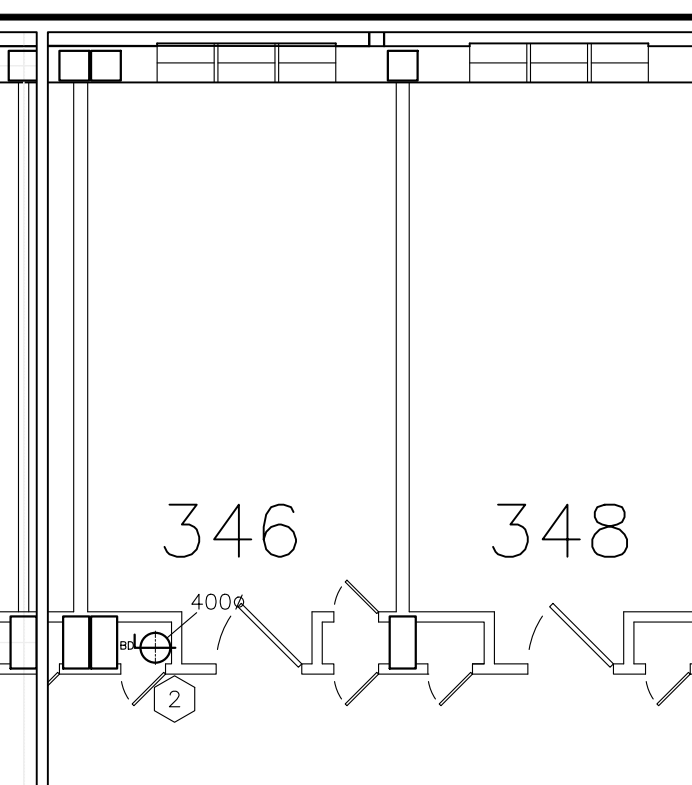
4 NEW WORK PLAN
 SCALE = 1:50



5 NEW WORK, SECTION
 SCALE = 1:50



6 2ND FLOOR PARTIAL
 SCALE = 1:100



7 3RD FLOOR PARTIAL
 SCALE = 1:100

DEMOLITION NOTES:

- REMOVE EXISTING EXHAUST DUCTWORK BETWEEN ROOM 148 AND THE EXHAUST FANS 50XAF36 AND 50XAF37. DUCTWORK TO BE REMOVED AND DISPOSED OF AS HAZARDOUS MATERIAL.
- MODIFY SECTION OF RETURN DUCT BACK TO ACCOMMODATE NEW EXHAUST DUCT.
- CUT SECTION OF EXISTING EXHAUST DUCT TO ACCOMMODATE THE NEW EXHAUST DUCT ARRANGEMENT.
- AFTER ELECTRICAL DISCONNECTION, REMOVE EXISTING EXHAUST FANS 50XAF36 AND 50XAF37.
- CUT EXISTING 50mm EXHAUST PIPE SERVING THE CABINETS BACK TO ACCOMMODATE THE INSTALLATION OF THE NEW EXHAUST DUCTWORK. RECONNECT TO NEW DUCTWORK AS REQUIRED.
- PROVIDE NEW INSULATED ROOF CURB COVER. SEE ARCHITECTURAL.
- AINSWORTH TO REMOVE ALL CONTROLS RELATED TO THE EXISTING EXHAUST FANS 50XAF36 AND 50XAF37 BACK TO SOURCE.

NEW WORK NOTES:

- PROVIDE NEW 316, 18GA WELDED STAINLESS STEEL EXHAUST DUCTWORK AS SHOWN. WELD ON ST. STL. HALF PIPE COUPLINGS FOR BRANCH PIPE CONNECTIONS FOR THE CABINETS. PROVIDE BALANCING DAMPERS AS SHOWN. USE DURO-DYNE NO. 8301 AL-1255 ST. STL. DAMPER KIT.
- RUN NEW 316, 18GA STAINLESS STEEL EXHAUST DUCT RISER TO THIRD FLOOR AND CONNECT TO EXISTING DUCT IN THE SERVICE SHAFT C/W SS BALANCING DAMPER WITH DURO-DYNE K-8 CLAMP QUADRANT. USE DUCTMATE QUICK-SLEEVE DOUBLE BOLTS ROUND DUCT CONNECTORS WITH NEOPRENE SEAL. PROVIDE DURO-DYNE IP-4 INSTRUMENT TEST PORTS UPSTREAM OF THE NEW BALANCING DAMPER.
- RECONNECT EXISTING CABINETS VENT PIPING TO NEW DUCTWORK WITH WELDED/SOLDERED CONNECTIONS.
- SEAL AROUND THE DUCT WITH FIRE SEALANT.
- PROVIDE NEW CONTROL/SHUTOFF DAMPER. AINSWORTH TO PROVIDE CONTROLS FOR THE NEW DAMPER. MODIFY THE SEQUENCE FOR ROOM 148 TO CLOSE THE DAMPER WHEN THE 50AHU06 IS OFF. EXACT LOCATION OF THE DAMPER TO BE COORDINATED ON SITE.

AIR BALANCING NOTES:

- PROVIDE AIR BALANCING AND STATIC PRESSURE READINGS FOR THE FUMEHOODS AND THE EXHAUST FAN AND SUBMIT INITIAL FINDINGS TO DEPARTMENTAL REPRESENTATIVE BEFORE SHUTTING DOWN THE SYSTEM.
- AT THE COMPLETION OF THE DUCTWORK, PROVIDE AIR BALANCING TO RESTORE FLOW RATES. AIR FLOW SHOWN ON THE DRAWING IS FOR INFORMATION ONLY.
- IN GENERAL, OPEN THE FUMEHOODS DAMPERS TO THE MAXIMUM. ADJUST THE NEW MAIN DAMPER ON THE THIRD FLOOR TO GET A TOTAL OF AROUND 3000CFM OR AS READ BY THE INITIAL SURVEY IF HIGHER THAN 3000CFM. ADJUST THE FUMEHOODS DAMPERS TO REACH THE INITIAL FLOW RATES OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. PROVIDE THE FINAL READINGS FOR THE MAIN RISER AND INCLUDE THE STATIC PRESSURE UPSTREAM AND DOWN STREAM OF THE MAIN DAMPER.

NOTE:
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GENERAL NOTES

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- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
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- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- ALL SHUTDOWNS SHALL BE PERFORMED AFTER NORMAL WORKING HOUR.
- INFILL THE OPENING THROUGH THE FLOOR WITH FIRE RATED ROXUL INSULATION AND SELF-LEVELING FIRE RETARDANT

KEY PLAN PLAN CLÉ

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| No. | Date | Revision | By: |
| 0 | 18 01 2021 | ISSUED FOR TENDER | KXL |
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Date Printed 00 MM YYYY Date imprimée

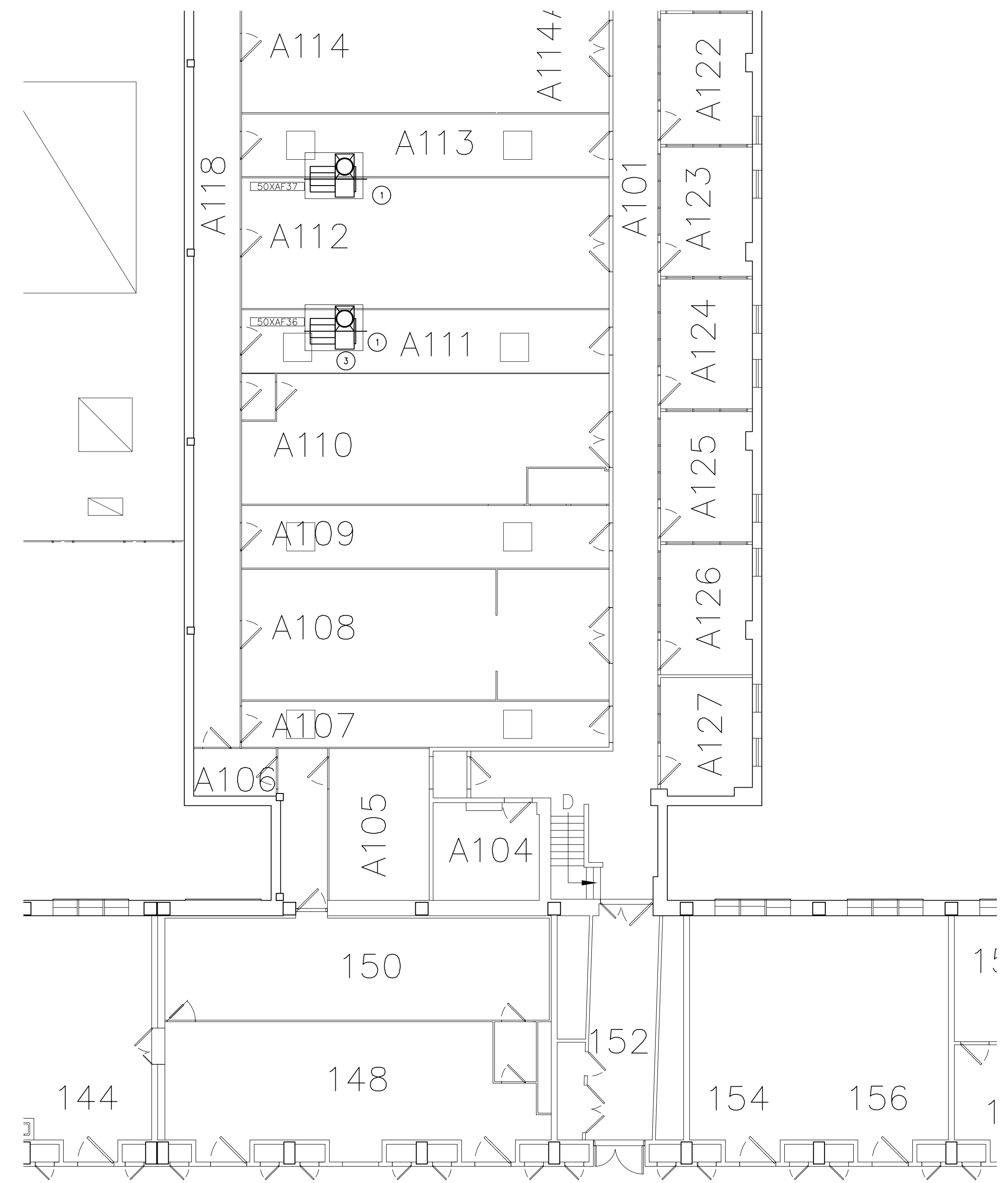
- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

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| A | A Detail no. / No. du détail | A |
| B | B Location drawing no. / sur dessin no. | B |
| C | C Drawing no. / dessin no. | C |

project / projet
 BUILDING M-50
 LAB 148,150 EXHAUST SYSTEM UPGRADE
 MONTREAL ROAD CAMPUS
 drawing / dessin
 ELECTRICAL DEMOLITION PLAN

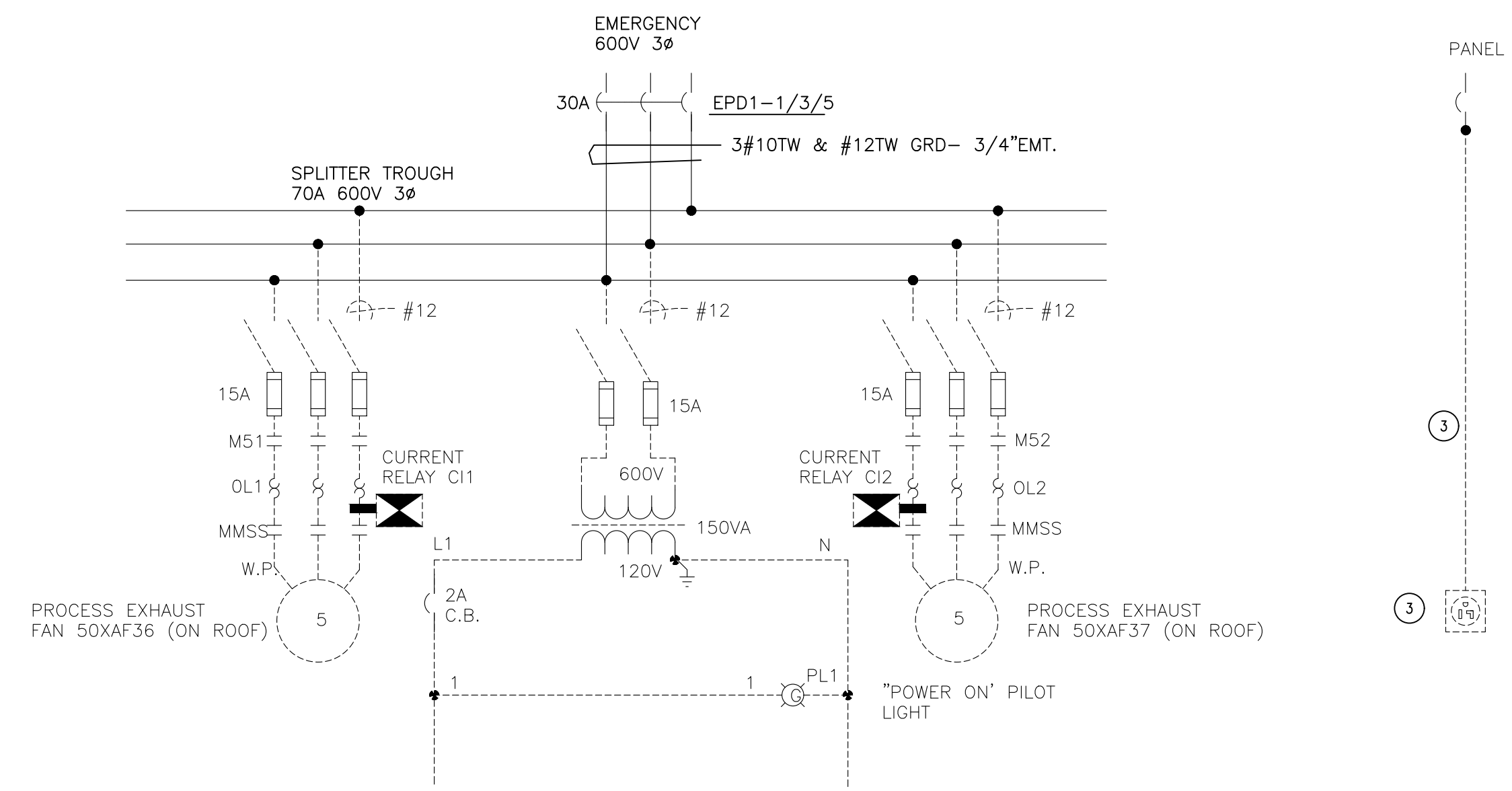
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| KXL | DEC/2020 | |
| drawn / dessiné | scale | échelle |
| KXL | AS NOTED | |
| checked / vérifié | sheet / de | feuille |
| KXL | E01 of/de | E01 |
| approved / approuvé | W.O.no. | D.T.no. |
| | | |

dwg.no. / dessin no.
 5946-E01

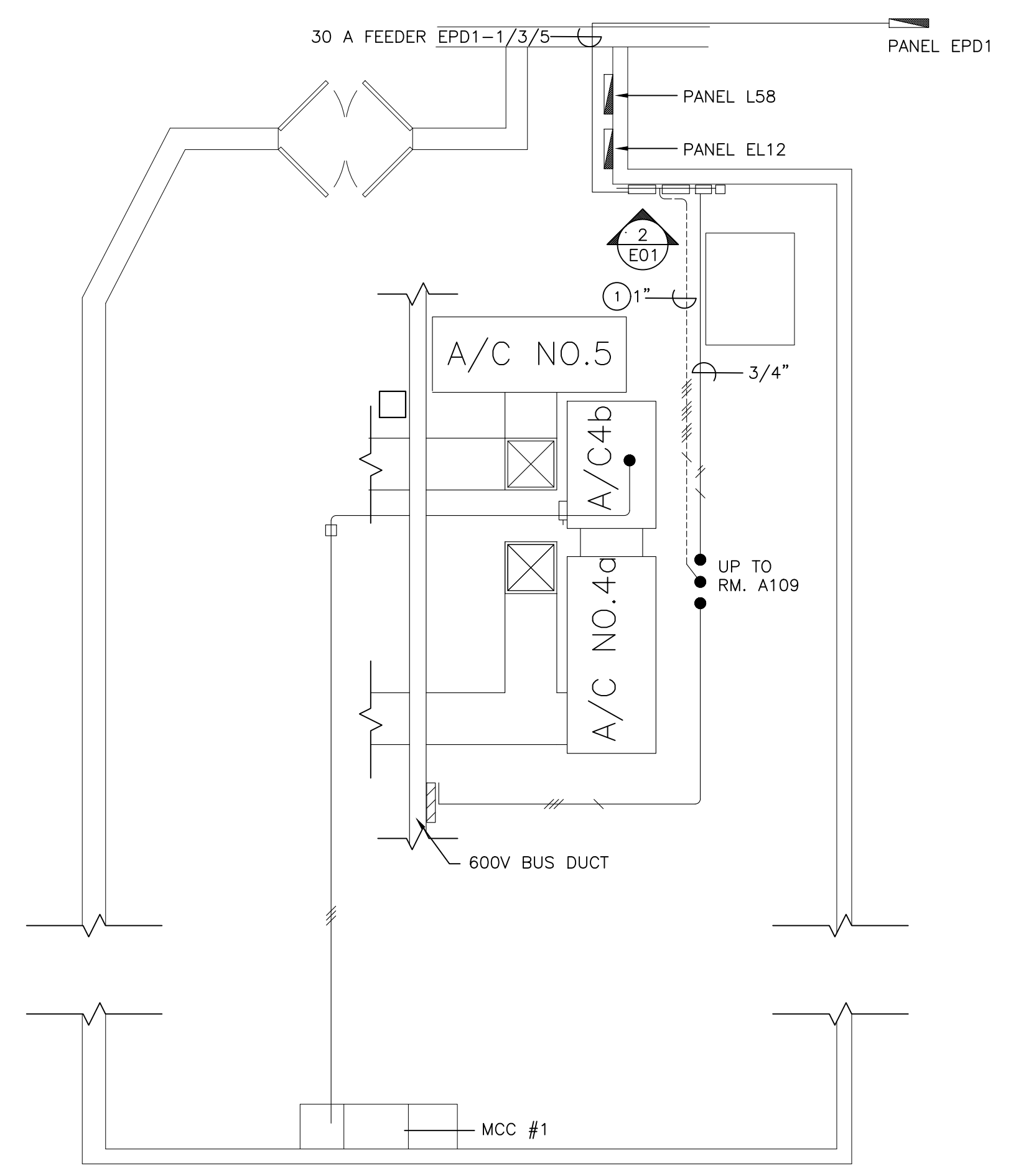


1 EXISTING GROUND FLOOR AND EXHAUST FANS
 E01 SCALE = 1:100

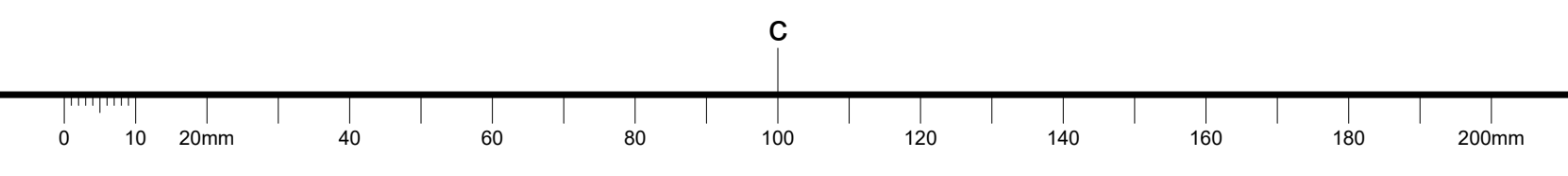
- DEMOLITION NOTES:
- DISCONNECT AND REMOVE EXISTING EQUIPMENT AND WIRING BACK TO EMERGENCY SPLITTER IN A01 COORDINATE WITH DIV.26
 - RELOCATE EXISTING ELECTRICAL EQUIPMENT AND WIRING TO ACCOMMODATE MECHANICAL WORK AS PER SITE INSTRUCTIONS. COORDINATE WITH DIV.26. SCOPE INCLUDES BUT NOT LIMITED TO : LIGHTING FIXTURE, WIRING. REFERS TO EXISTING DRAWING D-1194-E01 FOR ROOM A-105, CORRIDOR BETWEEN A-105 AND A-106 D-1464-E02.E03 FOR ROOM 148,150, CORRIDOR BETWEEN A-105 AND A-106
 - IDENTIFY THE CIRCUIT OF EXISTING SERVICE OUTLET ON ROOF FAN. DISCONNECT AND REMOVE EXISTING POWER FEED BACK TO SOURCE PANEL.

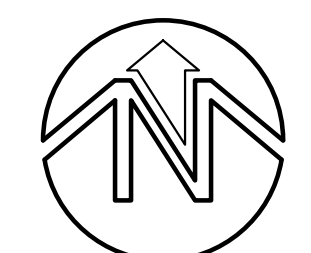
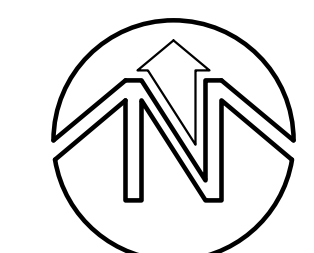
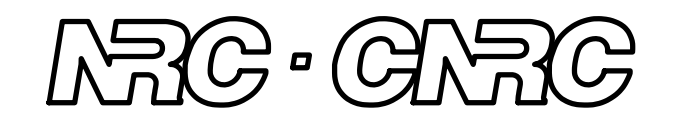


2 EXISTING ELECTRICAL SCHEMATIC
 E01 SCALE =



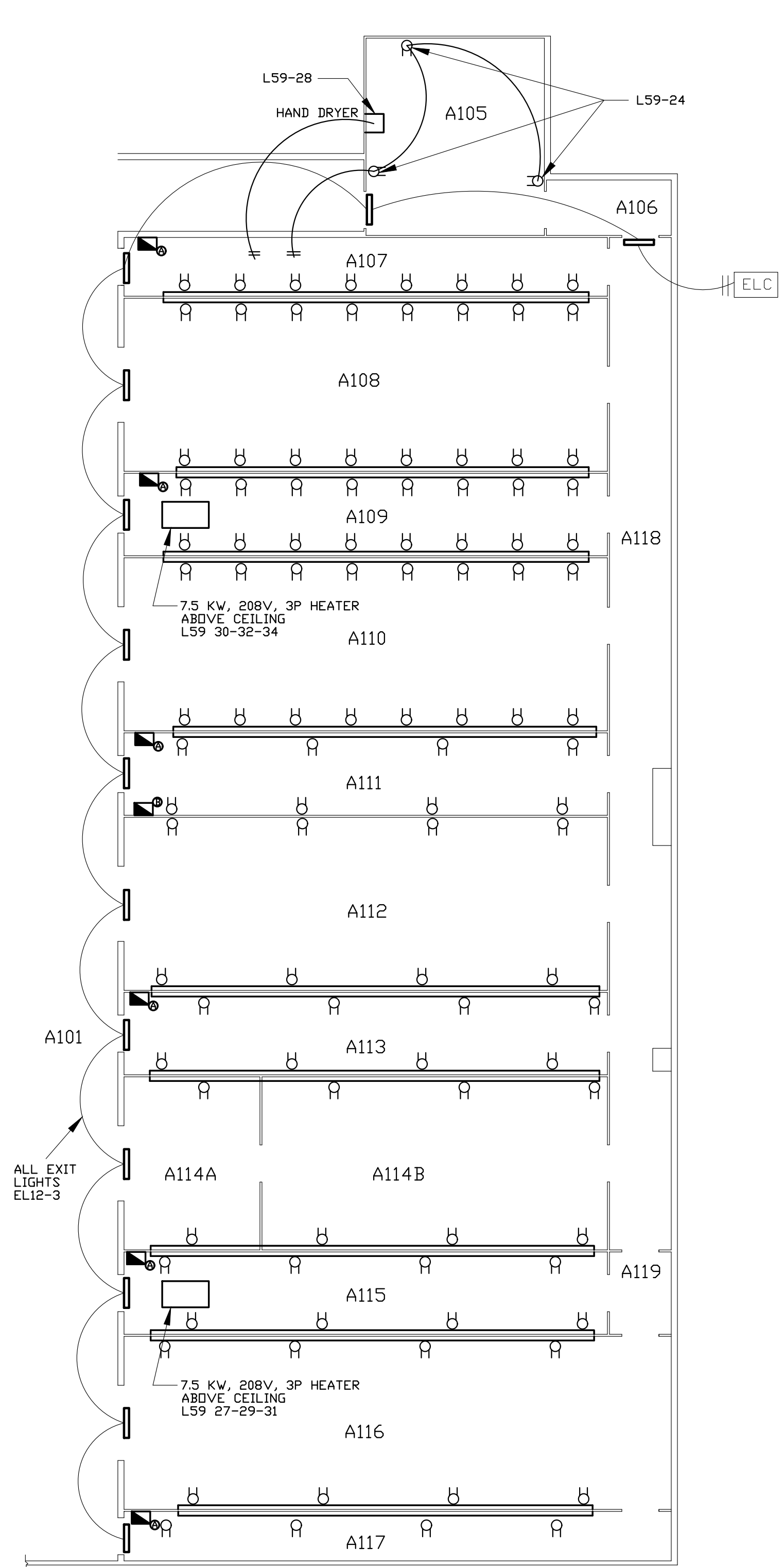
3 A01 FLOOR PLAN
 E01 SCALE =



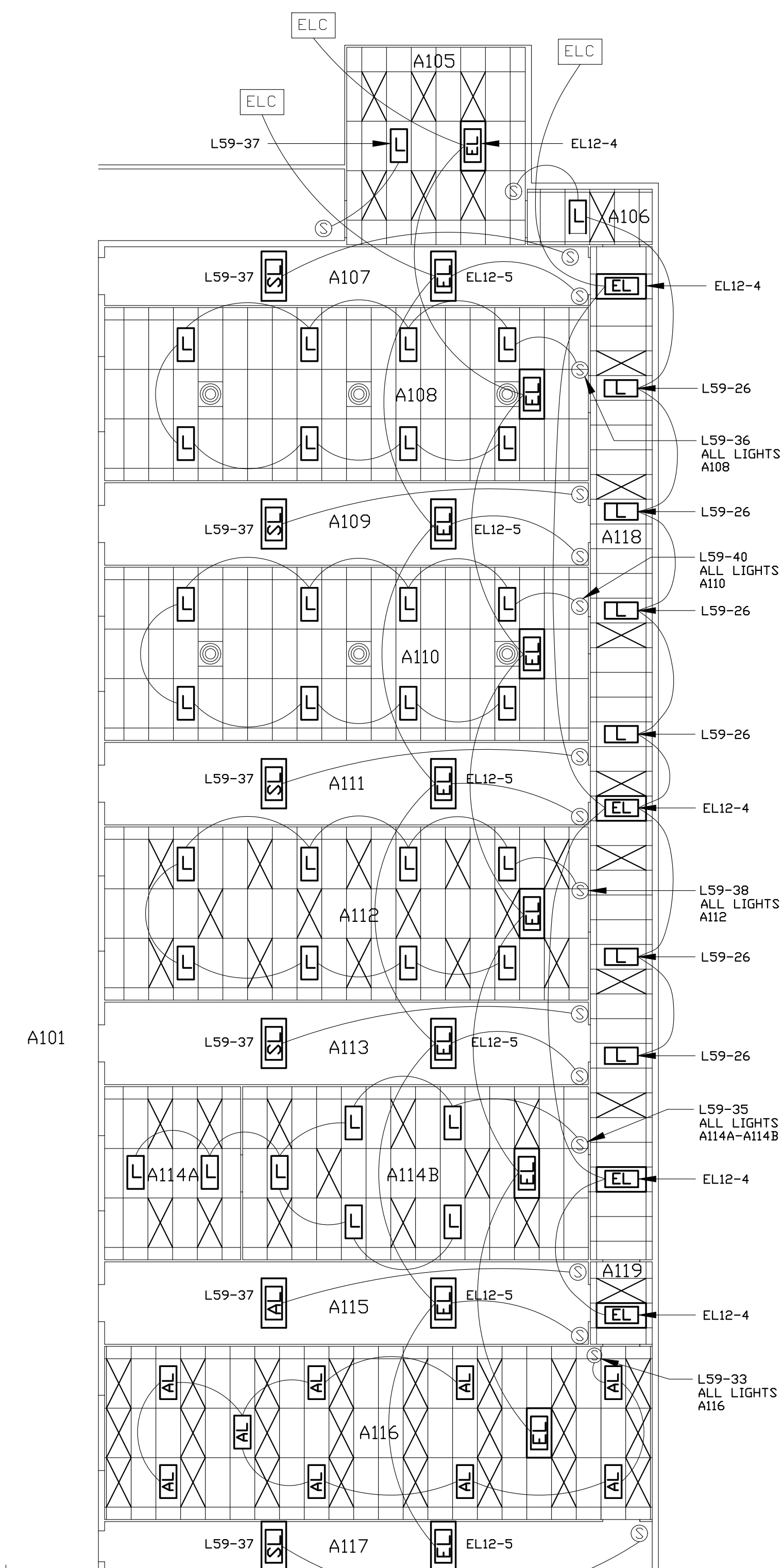


TRUE NORTH

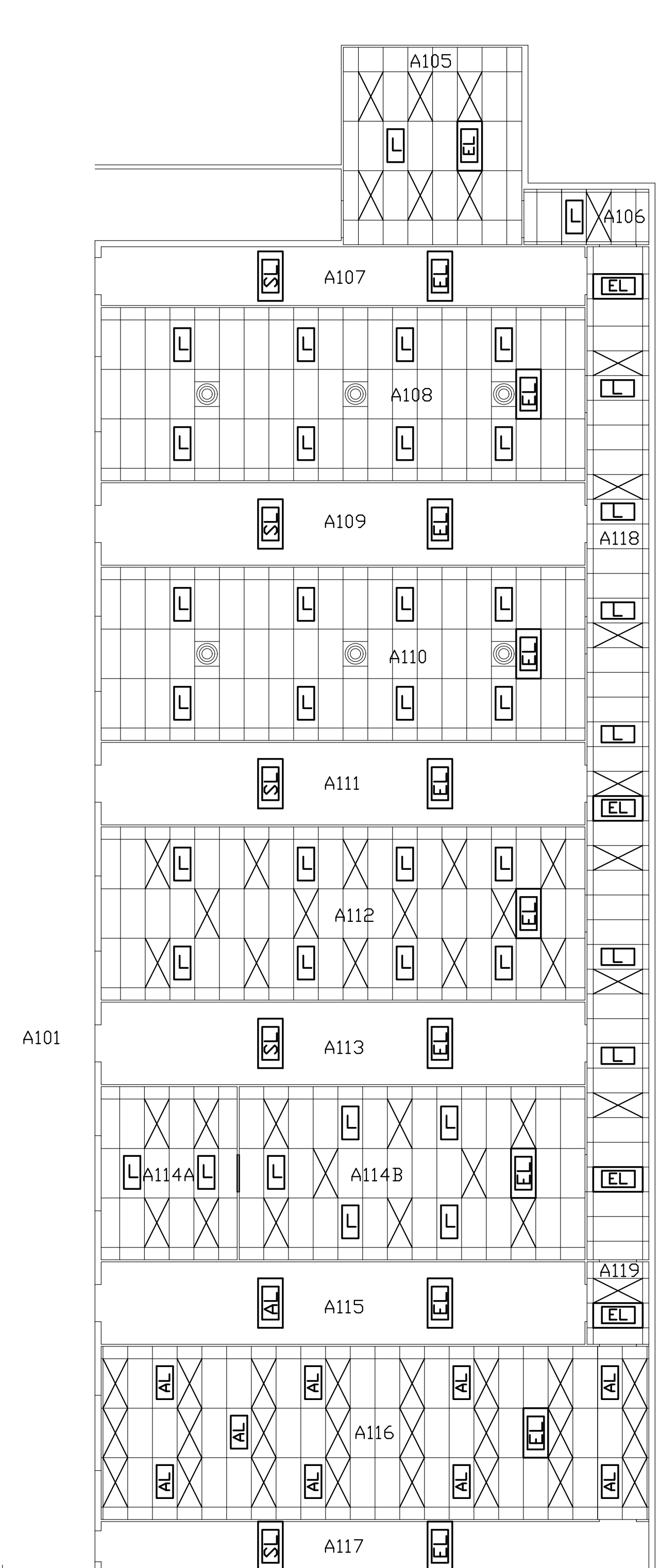
PROJECT NORTH



RECEPTACLE LAYOUT
 SEE ALSO DRAWING E-0713-E07



EMERGENCY LIGHTING CIRCUIT LAYOUT
 SEE ALSO DRAWING E-0713-E07



LIGHTING CIRCUIT LAYOUT

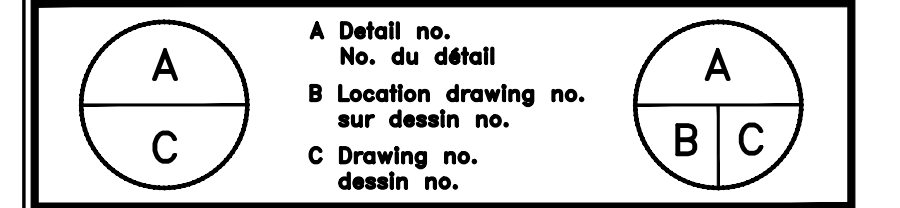
- LEGEND
- CEILING LIGHT
 - HEPA-FILTER
 - SURFACE MOUNTED LIGHT
 - AMBER LIGHTING
 - EMERGENCY LIGHTING
 - EMERGENCY LIGHTING CIRCUIT 208/1/60Hz
 - LIGHTING SWITCH TO BE RATED AT 110v 20 amp
 - 'EXIT/SORTIE' SIGN; RED LETTERS ON WHITE BACKGROUND
 - WIRE MOLD - 3000 SERIES
 - 120/208 3 PHASE 225 amp CIRCUIT BREAKER PANELBOARD COMPLETE WITH 100 amp FEEDERS AND CIRCUIT BREAKERS
 - 120/208 3Ø 225 amp, 42 CRT, CIRCUIT BREAKER PANELBOARD, COMPLETE WITH 225 amp FEEDERS AND CIRCUIT BREAKERS.
 - INSTALL FEEDERS TO 120/208 3Ø BUS DUCT AND BUS DUCT BREAKERS

NOTE:
 THIS IS A CURRENT RECORD DRAWING. FOR ORIGINAL INSTALLATION SEE DWG SERIES 0969

| No. | Date | Revision | By: |
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Date Printed: _____ Date Imprimée: _____

- Verify all dimensions and site conditions and be responsible for same
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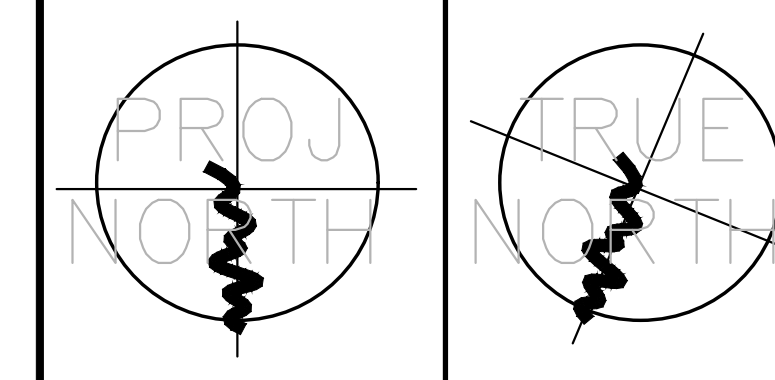
project
**BUILDING M-50 MICROFAB
 AREA CLEANROOMS**
 MONTREAL ROAD CAMPUS
 OTTAWA ONTARIO

drawing
ELECTRICAL

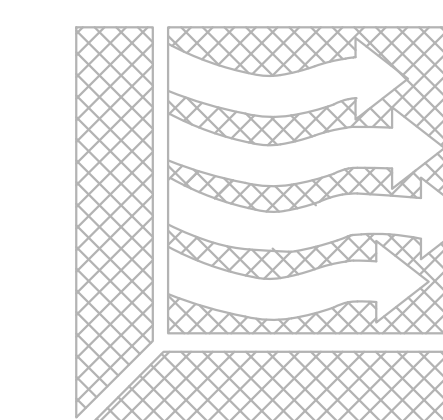
LIGHTING/OUTLET
 LAYOUT

| designed | conçu | date | date |
|-------------|----------|------------|---------|
| CLESTRA | | JAN. 1995 | |
| drawn | dessiné | scale | échelle |
| CLESTRA/DJE | | 1/8"=1'-0" | |
| checked | vérifié | sheet | feuille |
| CLESTRA | | E01 of/de | E10 |
| approved | approuvé | W.O.no. | D.T.no. |
| D.E.ROCQUE | | | |

dwg.no. D-1194-E01
 dessin no. D-1194-E01



CLESTRA CLEANROOM
 7000 PERFORMANCE DRIVE
 N. SYRACUSE N.Y. 13212-3448
 PHONE: (315) 452-5200
 FAX: (315) 452-5292



| | | | |
|-----|------|--------------------|------------|
| B | 2/96 | ADDED DOOR RELEASE | AM |
| A | 6/95 | ADDED EXIT SIGNS | GV |
| No. | Date | Revision | By: / Par: |

Date Printed: _____ Date Imprimée: _____

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

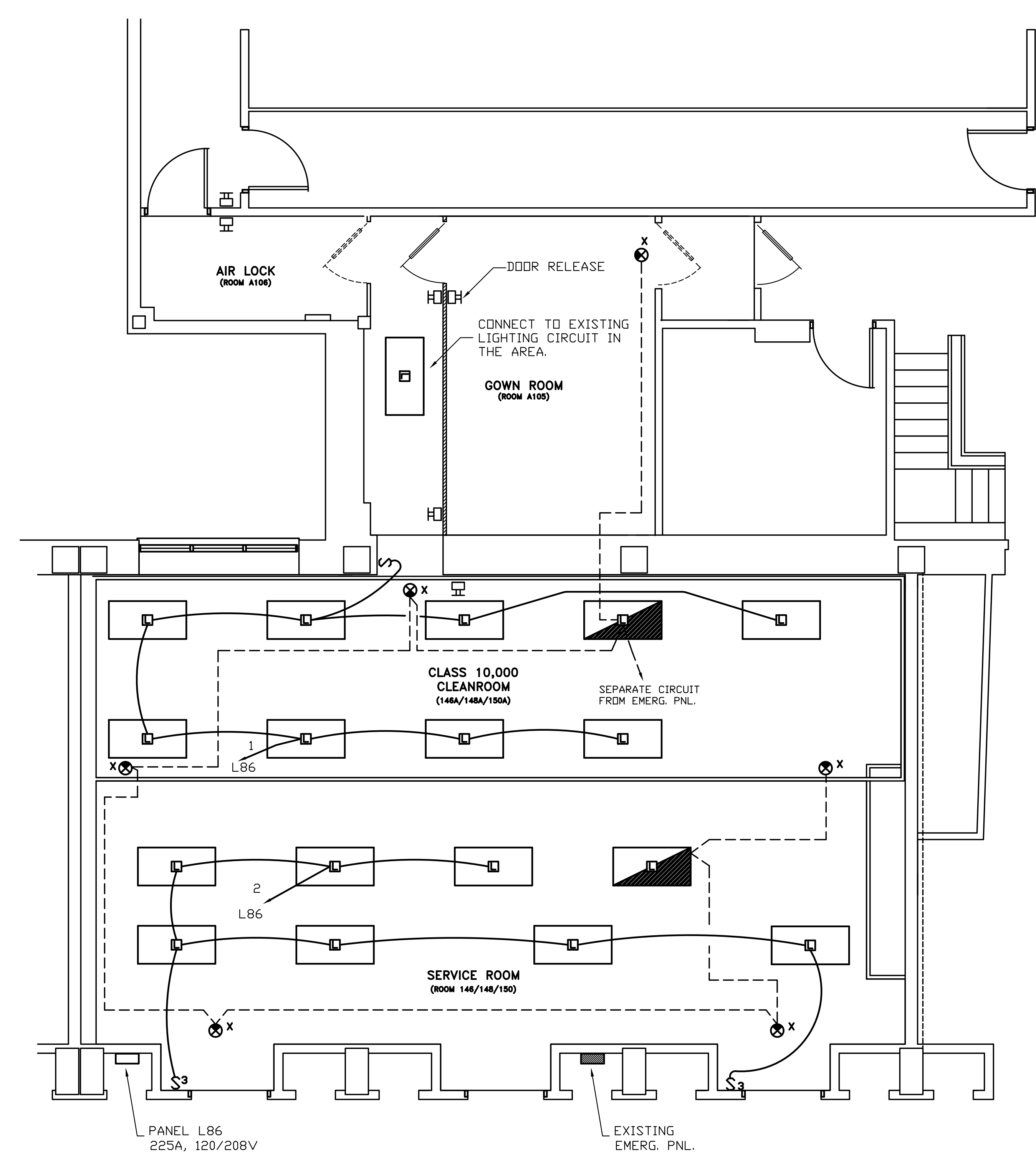
| | | |
|---|---|-----|
| A | A Detail no. / No. du détail | A |
| B | B Location drawing no. / sur dessin no. | B/C |
| C | C Drawing no. / dessin no. | |

project: **BUILDING M-50
 NEW CLEANROOM
 ROOMS 146,148, AND 150
 MONTREAL ROAD CAMPUS**

drawing: **CLEANROOM
 LIGHTING LAYOUT PLAN**

| | | | | | |
|----------|----------|------------|--------------|---------|-----|
| designed | conçu | date | 2-6-95 | date | |
| drawn | dessiné | scale | 1/4" = 1'-0" | échelle | |
| checked | vérifié | sheet | E02 | of/de | E08 |
| approved | approuvé | W.O.no. | 550007 | D.T.no. | |
| dwg.no. | | dessin no. | | | |

D-1464-E02



CLEANROOM FLOOR PLAN.

ELECTRIC LEGEND.

- 2' X 4' FLUORESCENT LIGHTING FIXTURE WITH 4-32 WATT T8 LAMPS, 120V ENERGY EFFICIENT BALLASTS.
- 2' X 4' FLUORESCENT LIGHTING FIXTURE WITH 4-32 WATT T8 LAMPS, 120V ENERGY EFFICIENT BALLASTS. CONNECTED TO EMERGENCY CIRCUIT.
- EXIT SIGN, FLUORESCENT, 120V. EXIT SIGN FACE
- WALL SWITCH, 125 VOLT, 20A.
- 3 - WAY WALL SWITCH, 125 VOLT, 20A.
- NUMBER AND SIZE OF CONDUCTOR AND SIZE OF CONDUIT 2#12, 1#12G, 3/4"C IS INTENDED UNLESS OTHERWISE NOTED.
- HOME RUN TO PANEL L1. CIRCUIT#6, 30A-2P CIRCUIT BREAKER. 20A-1P CIRCUIT BREAKER IS INTENDED IF NOTATION IS NOT SHOWN.
- EMERGENCY LIGHTING CIRCUIT.
- SURFACE METAL RACEWAY, WITH CSA TYPE 5-15R 125V, 15A DUPLEX RECEPTACLES SPACED 24" APART. MANUFACTURER: WIREMOLD 3000.
- NUMBER AND SIZE OF CONDUCTOR AND SIZE OF CONDUIT 2#12, 1#12G, 3/4"C IS INTENDED UNLESS OTHERWISE NOTED.
- HOME RUN TO PANEL L1. CIRCUIT#6, 30A-2P CIRCUIT BREAKER. 20A-1P CIRCUIT BREAKER IS INTENDED IF NOTATION IS NOT SHOWN.
- FIRE BELL - 24VDC, VIBRATING TYPE, RED. EDWARDS MODEL NO. 439D-6AWC.
- FIXED TEMPERATURE THERMAL DETECTOR, SELF-RESTORING, RATED 135 F. EDWARDS MODEL NO. 245A.
- DUCT TYPE SMOKE DETECTOR, IONIZATION CHAMBER VISUAL ALARM, TEST SWITCH, RATED FOR 24VDC. EDWARDS MODEL.
- EMERGENCY PUSH/PULL PUSHBUTTONS WITH RED MUSHROOM HEAD AND TWO N.O./N.C. CONTACTS.
- HORN 24VDC; EDWARDS NO. 882-2C-001.
- DUPLEX RECEPTACLE, CSA TYPE 5-20R, 125V, 20A.
- POWER POLE, ALUMINUM. WALKERPOLE MODEL AL-1 OR EQUAL. FURNISHED WITH 10 FT. APPLIANCE CORD AND PLUG WIRED TO THE CONNECTION BOX.
- VOICE DATA OUTLET.(FURNISHED & INSTALLED BY OTHERS)
- DOOR RELEASE

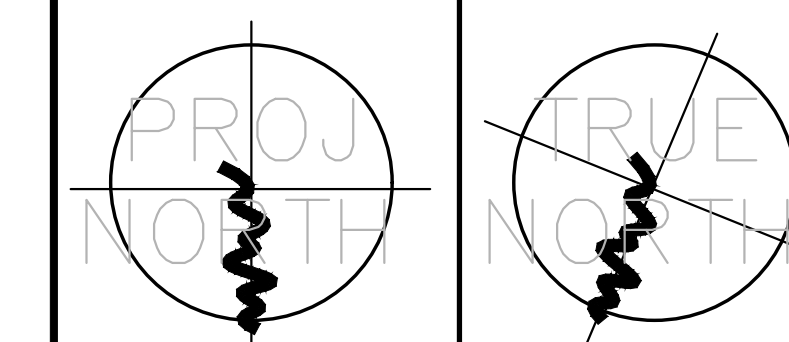
NOTES.

- USE 3/4" PVC CONDUIT ONLY. CONDUIT IN REMOVABLE PARTITIONS MAY BE 1/2" PVC.
- INSTALL ALL WALL SWITCHES 54" ABOVE FINISHED FLOOR (MEASURED FROM MIDDLE OF BOX).

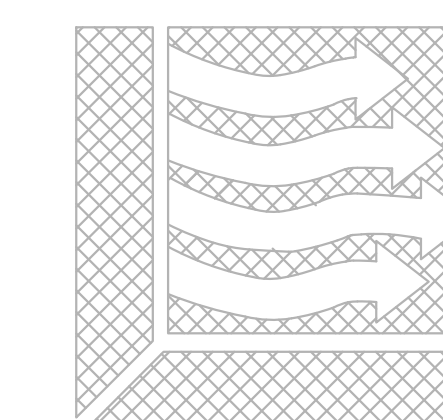
AS BUILT DRAWINGS, 19-2-96

NRC BLDG. M50 #7765

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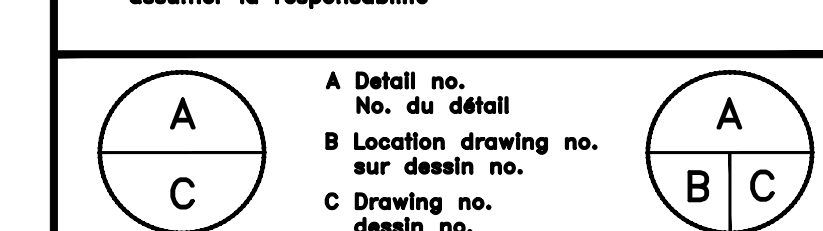
CLESTRA CLEANROOM
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 FAX: (315) 452-5292



| | | | |
|-----|-------|------------------|------------|
| B | 11/96 | GENERAL REVISION | AM |
| A | 2/96 | GENERAL REVISION | AM |
| No. | Date | Revision | By: / Par: |

Date Printed: _____ Date Imprimée: _____

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



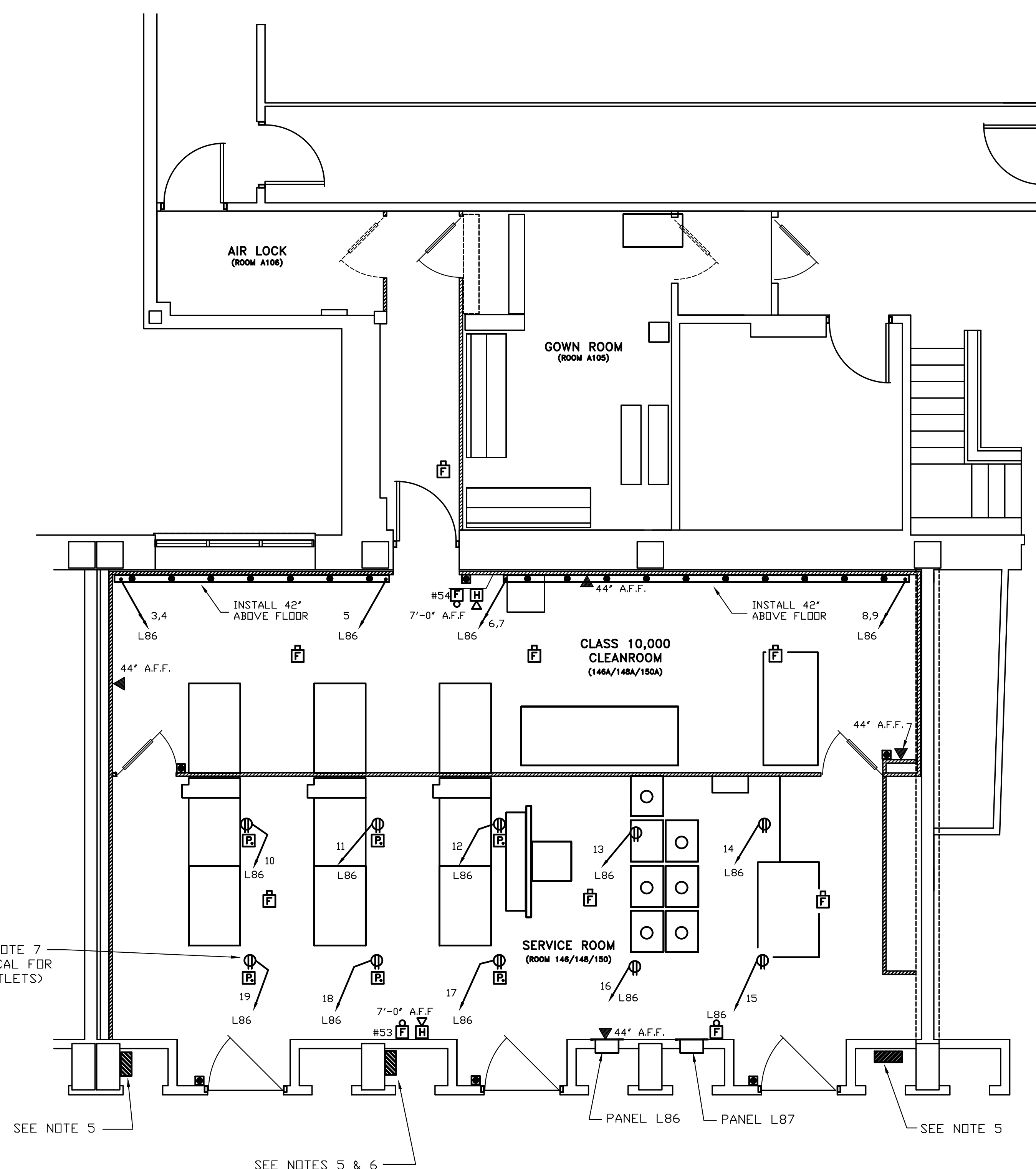
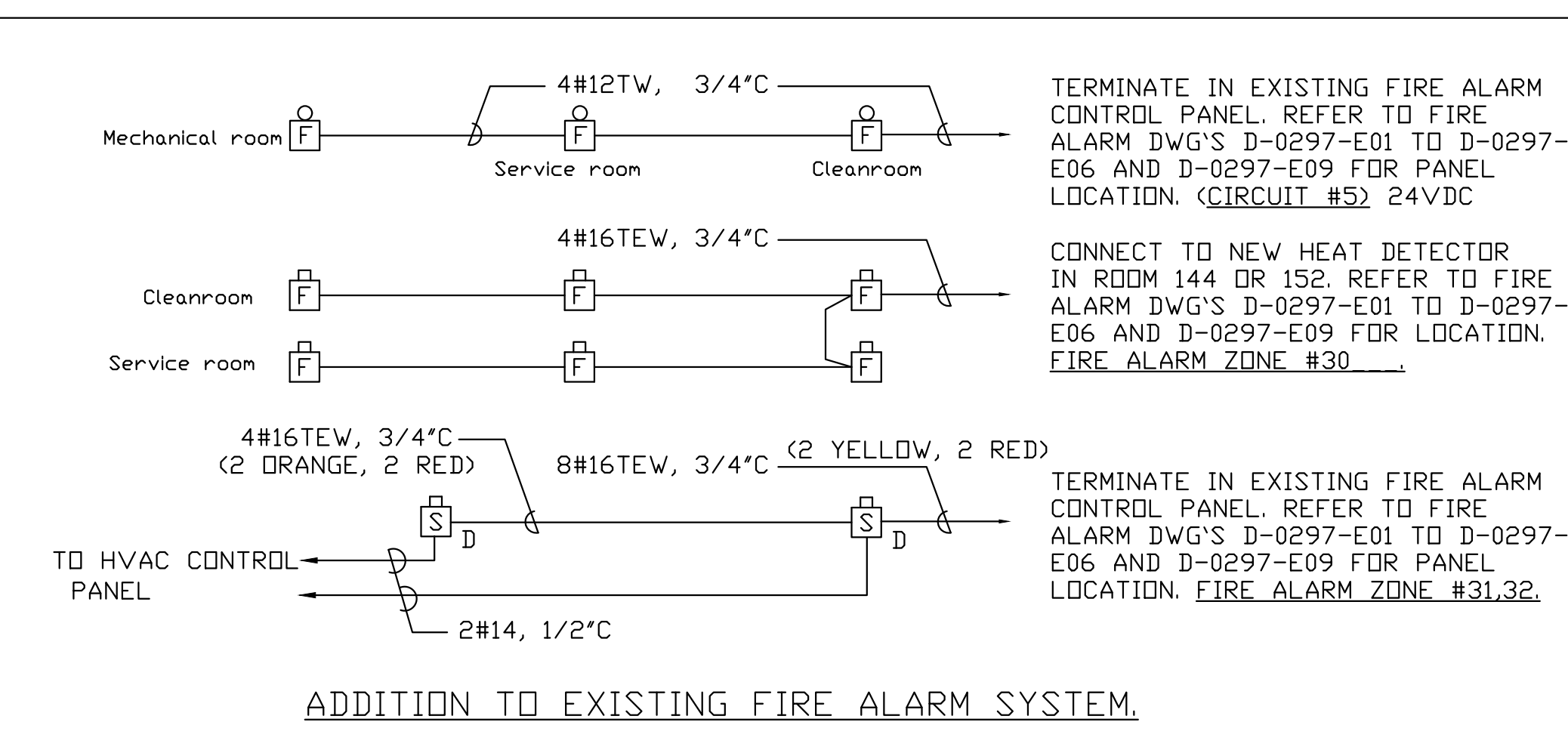
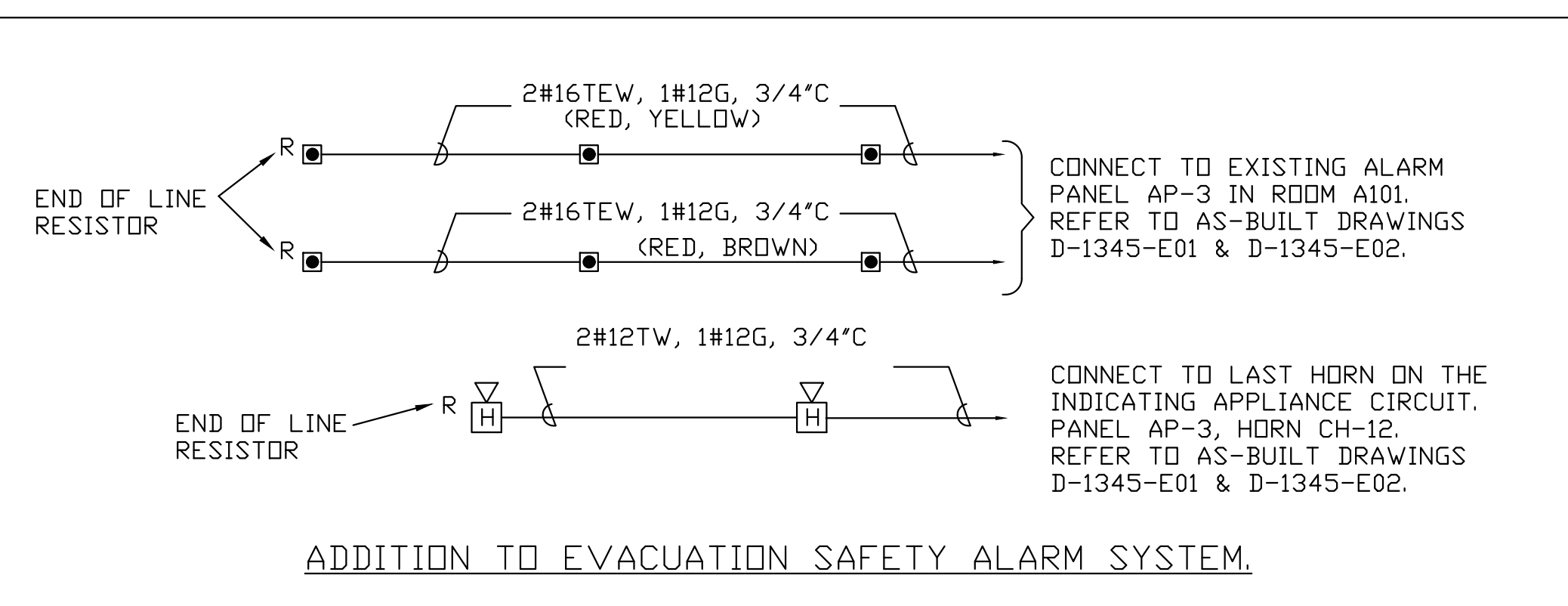
project **BUILDING M-50** projet
NEW CLEANROOM
ROOMS 146,148, AND 150
MONTREAL ROAD CAMPUS

drawing **CLEANROOM** dessin
OUTLET FLOOR PLAN

| | | | | | | |
|----------|------------|------------|---------|--------------|---------|-------------|
| designed | CCI | conçu | date | 2-6-95 | date | |
| drawn | DV | dessiné | scale | 1/4" = 1'-0" | échelle | |
| checked | TC | vérifié | sheet | E03 | of/de | feuille E08 |
| approved | --- | approuvé | W.O.no. | 550007 | D.T.no. | |
| dwg.no. | D-1464-E03 | dessin no. | | | | |

NOTES.

- USE 3/4" PVC CONDUIT ONLY. CONDUIT IN REMOVABLE PARTITIONS MAY BE 1/2" PVC.
- FIRE ALARM AND SAFETY ALARM CIRCUITS INSIDE CLEANROOM AND SERVICE ROOM MUST BE IN RIGID ALUMINUM CONDUIT ONLY. THE CONDUIT SHALL BE DEGREASED AND POLISHED.
- SAFETY ALARM SYSTEM: INSTALL AN END OF LINE RESISTOR AT THE LAST DEVICE ON EACH INITIATING DEVICE CIRCUIT AND THE LAST HORN ON INDICATING APPLIANCE CIRCUIT.
- FIRE ALARM SYSTEM: ADDED FIRE ALARM CIRCUITS SHALL BE WIRED THRU ELECTRICAL TERMINAL CABINET. REFER TO DWG'S D-0297-E01 TO D-0297-E06 AND D-0297-E09 FOR CABINET LOCATION.
- REMOVE EXISTING PANELBOARD COMPLETE WITH FEEDER.
- REMOVE EXISTING BUS DUCT SWITCH, AND SPLITTER BOX, AND FEEDER. BUS DUCT SWITCH AND SPLITTER LOCATED IN SERVICE CHASE.
- INSTALL DUPLEX OUTLET ABOVE CEILING FOR POWER POLE.
- GROUND CONDUCTIVE FLOOR IN CLEANROOM AND SERVICE ROOM. RUN #8cu GROUND WIRE IN 1/2" PVC CONDUIT TO A GROUND LUG IN PANEL LP1.



CLEANROOM FLOOR PLAN

AS BUILT DRAWINGS, 24-7-96

NRC BLDG. M50 #7765

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