

MNE ENGINEERING

MNE Engineering Inc.
22 Kewco Road
Kitchener, Ontario, N2C 6Z5
(519) 894-5108
www.mneengineering.ca

2025-07-23	ISSUED FOR SCHEMATIC DESIGN	A.W.G.
2025-11-07	ISSUED FOR COORDINATION	A.W.G.
2025-12-17	ISSUED FOR COORDINATION	A.W.G.
2026-02-11	ISSUED FOR BID	A.W.G.



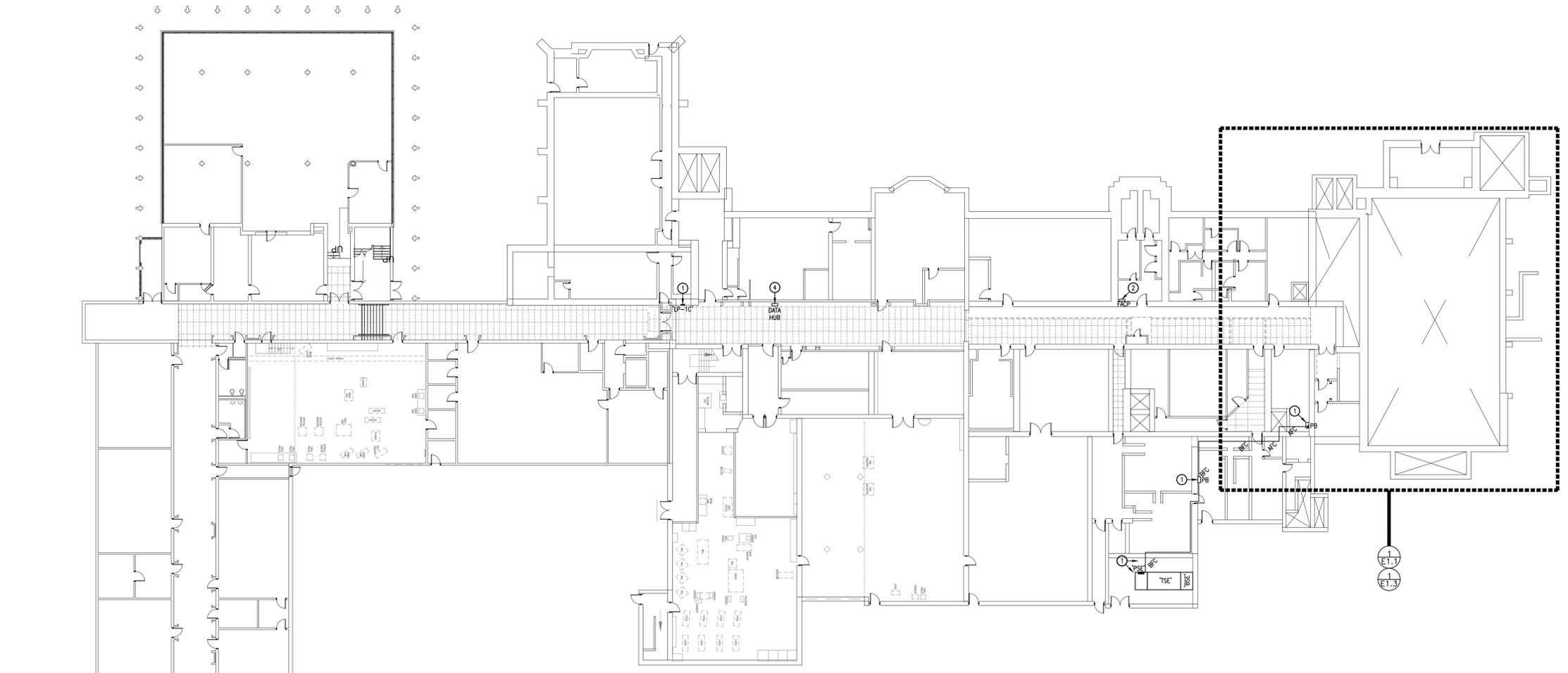
Galt Collegiate Institute

200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H6

FIRST FLOOR KEY PLAN

TASSE HALL UPGRADES

Project No.: 25067
Drawn By: A.W.T.
Checked By: A.W.G.



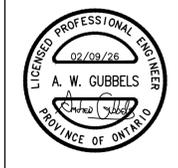
E0.1 FIRST FLOOR KEY PLAN
1:250

KEY PLAN NOTES

- ① MAINTAIN POWER DISTRIBUTION EQUIPMENT.
 - CUT & PATCH AS REQUIRED TO DELETE ASSOCIATED FEEDER.
 - PROVIDE NEW FEEDER.
 - REFER TO SINGLE LINE DIAGRAMS.
 - REFER TO CONSTRUCTION PHASING.
- ② MAINTAIN EDWARDS EST3 FIRE ALARM CONTROL PANEL (FACP). MODIFY AS FOLLOWS:
 - REWORK DEVICES AS INDICATED ON EXISTING PLANS.
 - EXTEND DATA LOOPS & MODIFY INITIATING ZONES 1, 2, 3, 14, 15, ETC. AS REQUIRED.
 - PROVIDE HARDWARE & LABELS FOR THE FOLLOWING NEW INITIATING ZONES:
 - TASSE HALL SOUTHEAST STAIR.
 - DRESSING ROOM 251A.
 - DRESSING ROOM 350.
 - TASSE HALL AIR HANDLING UNIT 6.
 - TASSE HALL PRE-ACTION WET FLOW.
 - TASSE HALL PRE-ACTION WET VALVE.
 - TASSE HALL STAGE DELUGE FLOW.
 - TASSE HALL STAGE DELUGE VALVE.
 - SOUTH ATTIC DRY FLOW.
 - SOUTH ATTIC DRY VALVE.
 - EXTEND SIGNALING/NOTIFICATION WIRING.
 - PROVIDE SYSTEM VERIFICATIONS & INTEGRATED SYSTEMS TESTS.
- ③ MAINTAIN THE EST FIRE ALARM ANNUNCIATOR PANEL (FAP). UPDATE ZONE LABELS TO REFLECT CONTROL PANEL ALTERATIONS. ASSOCIATED GRAPHICS TO BE UPDATED BY THE OWNER.
- ④ MAINTAIN COMMUNICATIONS & SECURITY HUB. PROVIDE PATHWAYS FOR CABLING. REFER TO ALLOWANCE WORKS.



E0.1



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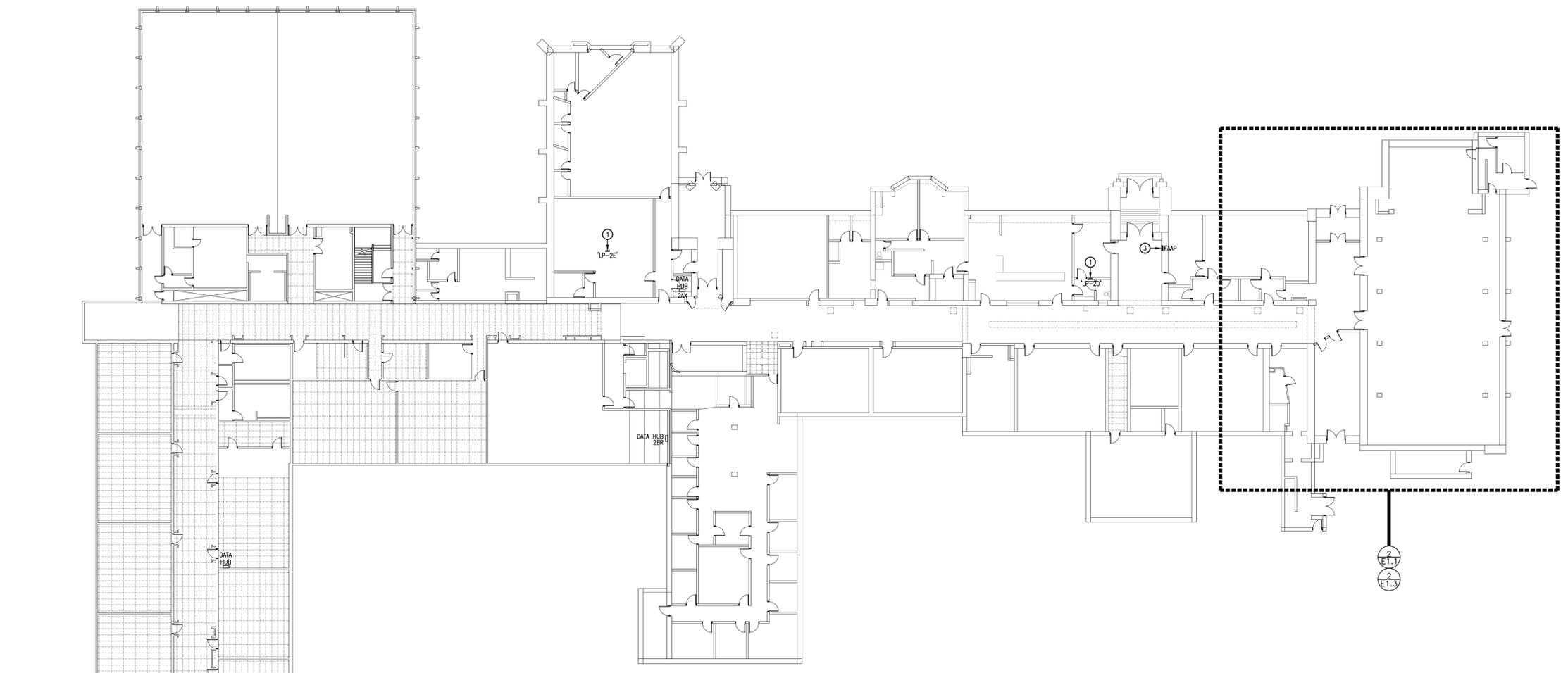


Galt Collegiate Institute
 200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H6

SECOND FLOOR KEY PLAN

TASSE HALL UPGRADES

Project No.: 29067
 Drawn By: A.W.T.
 Checked By: A.W.G.



2
E1.1
2
E1.3

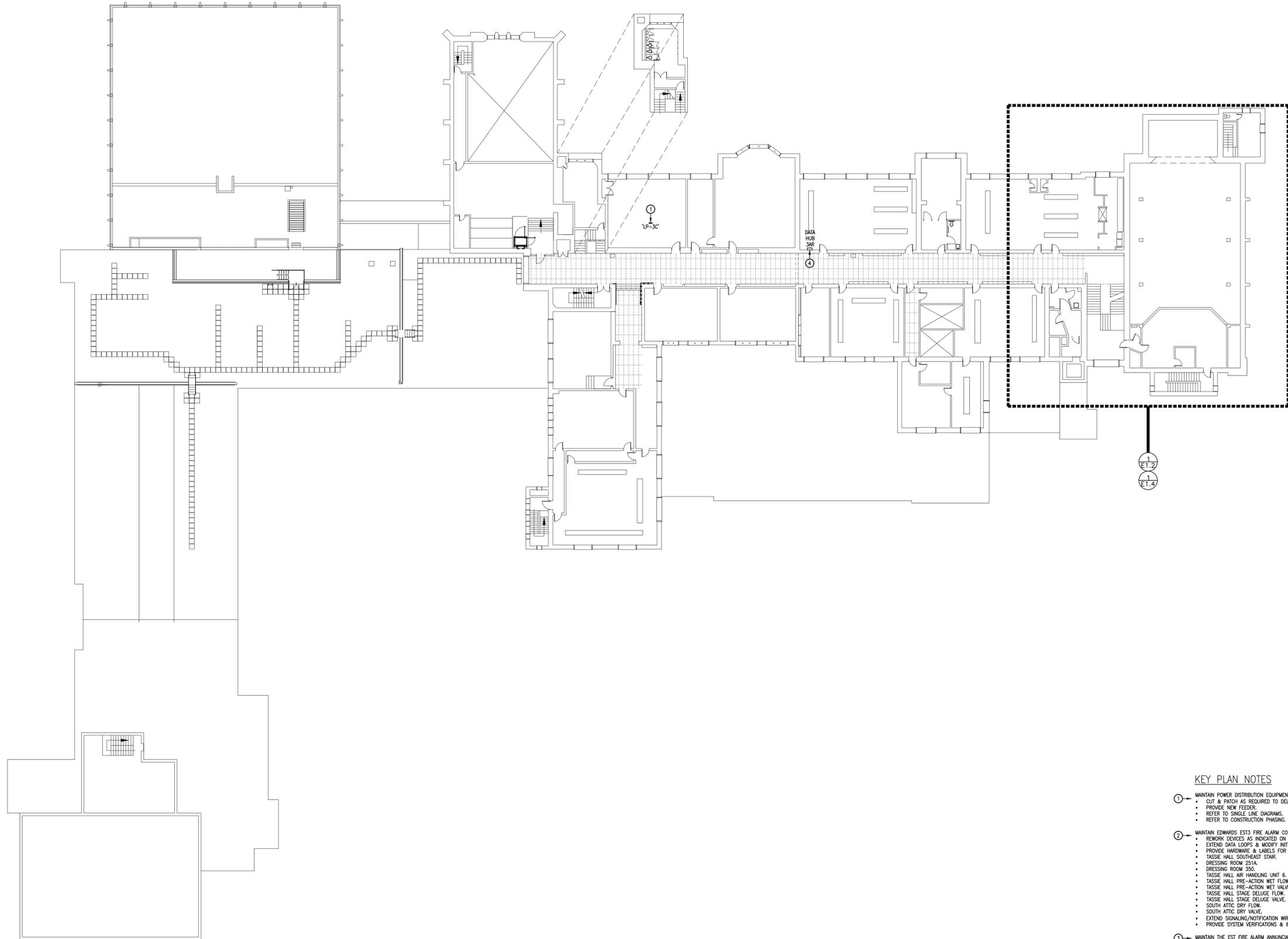
KEY PLAN NOTES

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 - CUT & PATCH AS REQUIRED TO DELETE ASSOCIATED FEEDER.
 - PROVIDE NEW FEEDER.
 - REFER TO SINGLE LINE DIAGRAMS.
 - REFER TO CONSTRUCTION PHASING.
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 - DRESSING ROOM 251A.
 - DRESSING ROOM 350.
 - TASSE HALL AIR HANDLING UNIT 6.
 - TASSE HALL PRE-ACTION WET FLOW.
 - TASSE HALL PRE-ACTION WET VALVE.
 - TASSE HALL STAGE DELUGE FLOW.
 - TASSE HALL STAGE DELUGE VALVE.
 - SOUTH ATTIC DRY FLOW.
 - SOUTH ATTIC DRY VALVE.
 - EXTEND SIGNALING/NOTIFICATION WIRING.
 - PROVIDE SYSTEM VERIFICATIONS & INTEGRATED SYSTEMS TESTS.
- ③ MAINTAIN THE EST FIRE ALARM ANNUNCIATOR PANEL (FAP). UPDATE ZONE LABELS TO REFLECT CONTROL PANEL ALTERATIONS. ASSOCIATED GRAPHICS TO BE UPDATED BY THE OWNER.
- ④ MAINTAIN COMMUNICATIONS & SECURITY HUB. PROVIDE PATHWAYS FOR CABLING. REFER TO ALLOWANCE WORKS.

① SECOND FLOOR KEY PLAN
 E0.2 1:250



E0.2



1 THIRD FLOOR KEY PLAN
E0.3 1:250

KEY PLAN NOTES

- 1 MAINTAIN POWER DISTRIBUTION EQUIPMENT.
 - CUT & PATCH AS REQUIRED TO DELETE ASSOCIATED FEEDER.
 - PROVIDE NEW FEEDER.
 - REFER TO SINGLE LINE DIAGRAMS.
 - REFER TO CONSTRUCTION PHASING.
- 2 MAINTAIN EDWARDS EST3 FIRE ALARM CONTROL PANEL (FACP). MODIFY AS FOLLOWS:
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 - TASSIE HALL AIR HANDLING UNIT 6.
 - TASSIE HALL PRE-ACTION WET FLOW.
 - TASSIE HALL PRE-ACTION WET VALVE.
 - TASSIE HALL STAGE DELUGE FLOW.
 - TASSIE HALL STAGE DELUGE VALVE.
 - SOUTH ATTIC DRY FLOW.
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 - EXTEND SIGNALING/NOTIFICATION WIRING.
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- 3 MAINTAIN THE EST FIRE ALARM ANNUNCIATOR PANEL (FACP). UPDATE ZONE LABELS TO REFLECT CONTROL PANEL ALTERATIONS. ASSOCIATED GRAPHICS TO BE UPDATED BY THE OWNER.
- 4 MAINTAIN COMMUNICATIONS & SECURITY HUB. PROVIDE PATHWAYS FOR CABLING. REFER TO ALLOWANCE WORKS.



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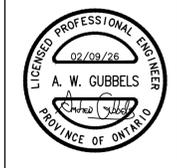
Galt Collegiate Institute
 200 WATER STREET NORTH, CAMBRIDGE, ON N1R 1H6

THIRD FLOOR KEY PLAN

TASSIE HALL UPGRADES

Project No.:	25067	Drawn By:	A.W.T	Checked By:	A.W.G.
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E0.3



MNE ENGINEERING

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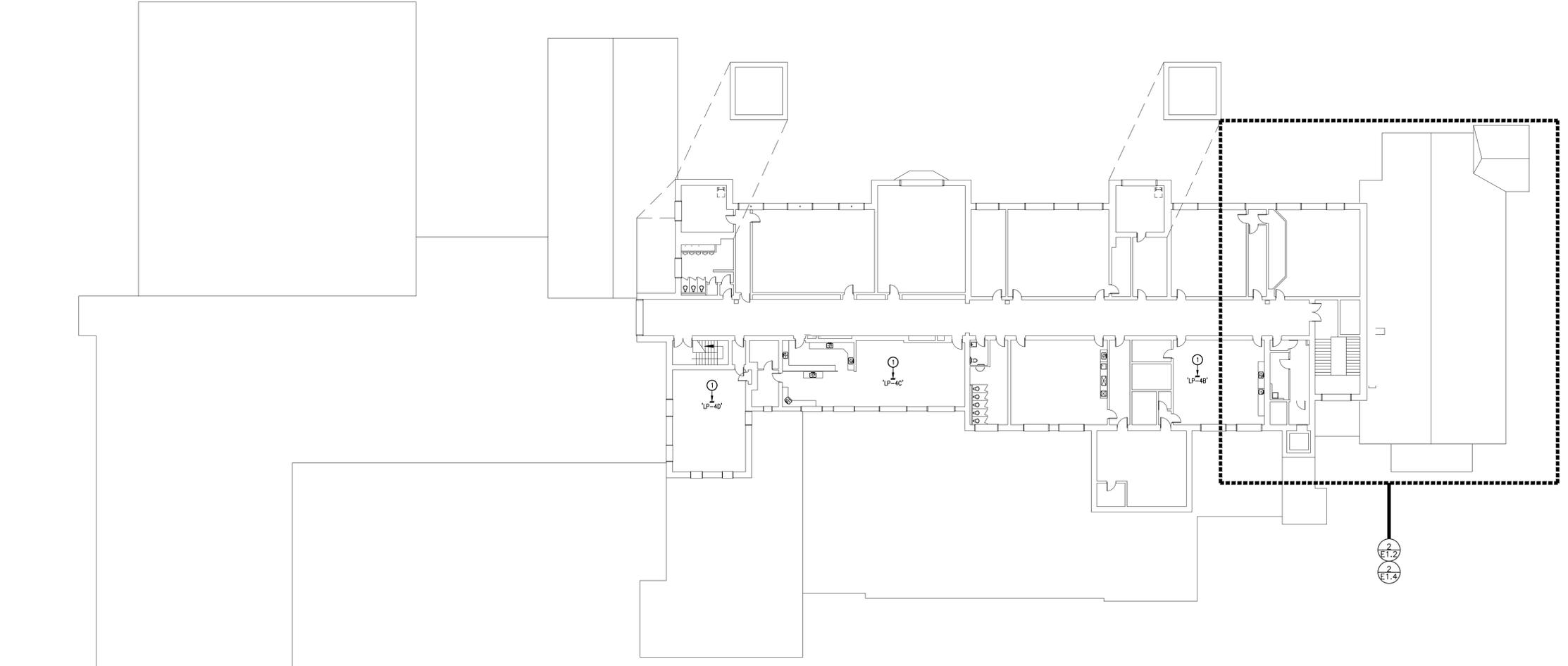
Galt Collegiate Institute

200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H6

FOURTH FLOOR KEY PLAN

TASSE HALL UPGRADES

Project No.: 25067
Drawn By: A.W.T.
Checked By: A.W.G.



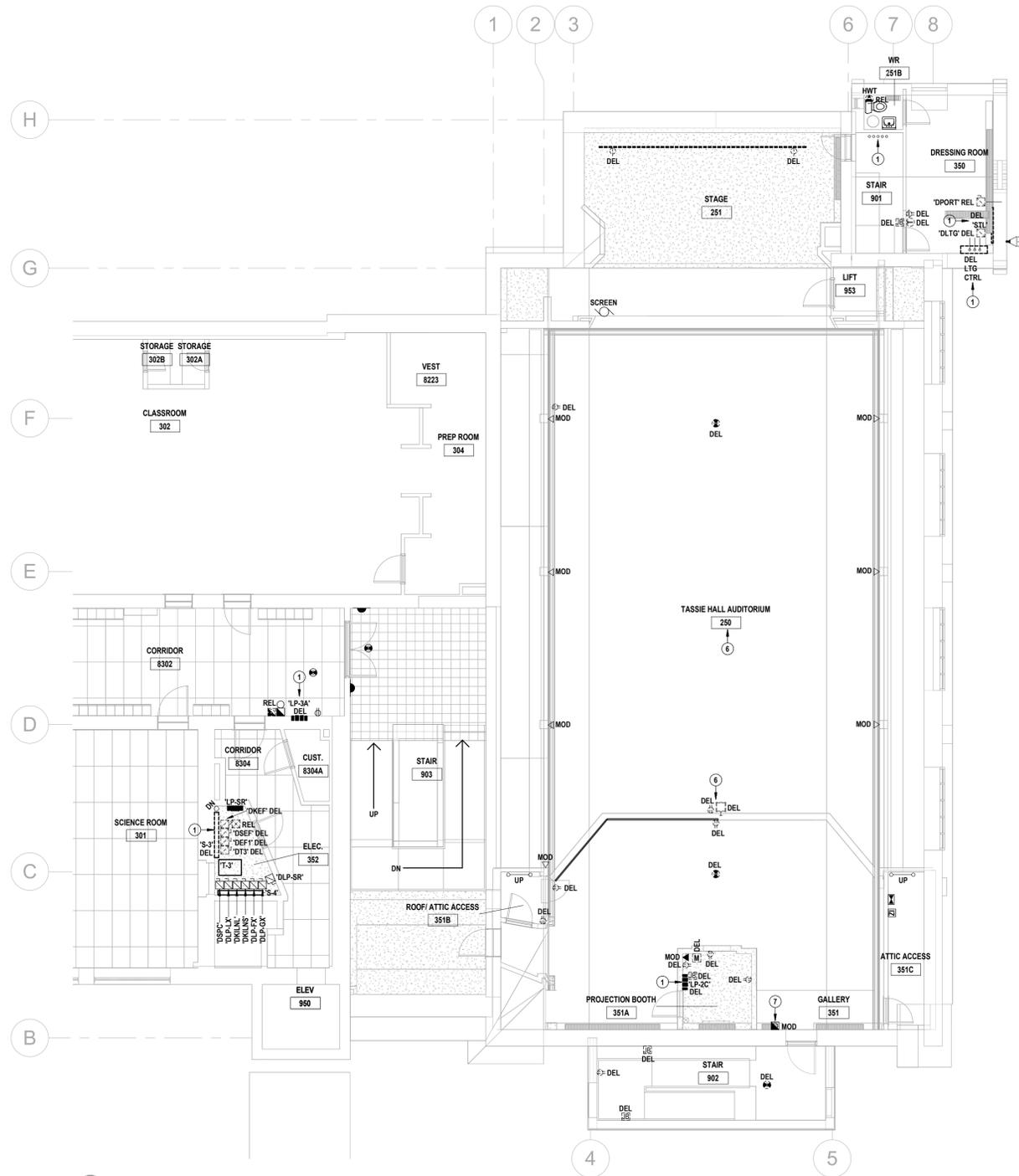
E0.4 FOURTH FLOOR KEY PLAN
1:250

KEY PLAN NOTES

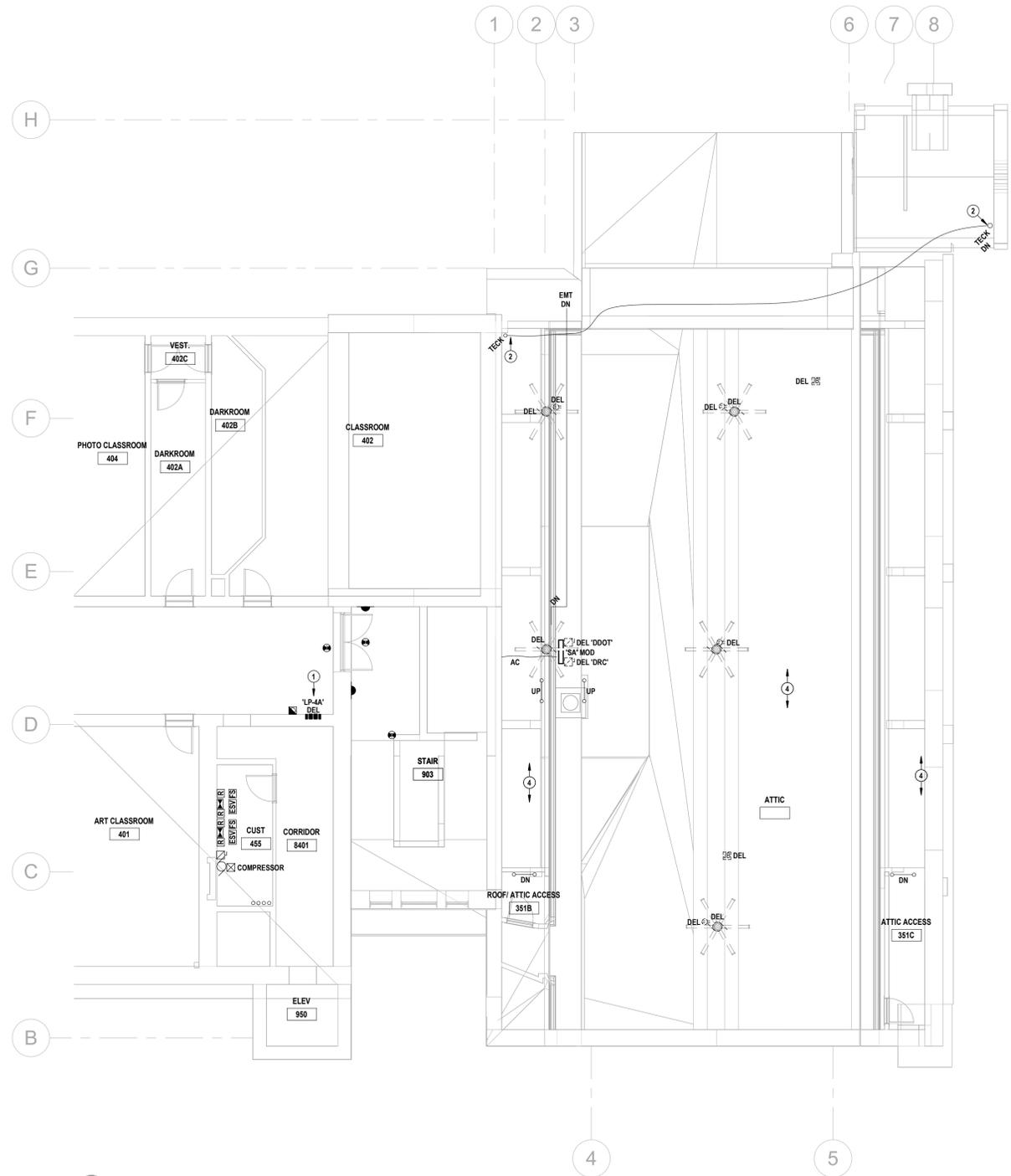
- ① MAINTAIN POWER DISTRIBUTION EQUIPMENT.
 - CUT & PATCH AS REQUIRED TO DELETE ASSOCIATED FEEDER.
 - PROVIDE NEW FEEDER.
 - REFER TO SINGLE LINE DIAGRAMS.
 - REFER TO CONSTRUCTION PHASING.
- ② MAINTAIN EDWARDS EST3 FIRE ALARM CONTROL PANEL (FACP). MODIFY AS FOLLOWS:
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 - DRESSING ROOM 251A.
 - DRESSING ROOM 350.
 - TASSE HALL AIR HANDLING UNIT 6.
 - TASSE HALL PRE-ACTION WET FLOW.
 - TASSE HALL PRE-ACTION WET VALVE.
 - TASSE HALL STAGE DELUGE FLOW.
 - TASSE HALL STAGE DELUGE VALVE.
 - SOUTH ATTIC DRY FLOW.
 - SOUTH ATTIC DRY VALVE.
 - EXTEND SIGNALING/NOTIFICATION WIRING.
 - PROVIDE SYSTEM VERIFICATIONS & INTEGRATED SYSTEMS TESTS.
- ③ MAINTAIN THE EST FIRE ALARM ANNUNCIATOR PANEL (FAP). UPDATE ZONE LABELS TO REFLECT CONTROL PANEL ALTERATIONS. ASSOCIATED GRAPHICS TO BE UPDATED BY THE OWNER.
- ④ MAINTAIN COMMUNICATIONS & SECURITY HUB. PROVIDE PATHWAYS FOR CABLING. REFER TO ALLOWANCE WORKS.



E0.4

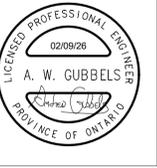


1 EXISTING THIRD FLOOR POWER, COMMUNICATIONS & SECURITY PLAN
E1.2 SCALE: 1:100



2 EXISTING FOURTH FLOOR POWER, COMMUNICATIONS & SECURITY PLAN
E1.2 SCALE: 1:100

- EXISTING DRAWING NOTES**
- 1 → DELETE POWER DISTRIBUTION EQUIPMENT & FEEDERS AS OUTLINED.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING.
 - 2 → MAINTAIN CONDUCTORS.
• FIELD CONFIRM ROUTE.
• PROVIDE HARDWARE/SPACERS TO MAINTAIN FREE AIR RATING.
• REWORK AS REQUIRED TO SUIT STRUCTURAL & HVAC INSTALLATIONS.
REFER TO SEPARATE PRICE.
 - 3 → REWORK FIRE ALARM CONDUITS & SPLITTER AS REQUIRED TO ACCOMMODATE NEW POWER DISTRIBUTION BOARD.
 - 4 → DELETE CORDS, PLUGS, CABLES, DMX DEVICES, LAMP HOLDERS, REDUNDANT BRANCH WIRING, CONDUITS, BOXES & COMMUNICATIONS CABLING (NOT ALL INDICATED). QUANTIFY SCOPE PRIOR TO BIDDING.
 - 5 → SCHEDULE WITH DIVISION 04 WORK TO DELETE ALL EXPOSED RACEWAYS ALONG THIS DELINEATION. QUANTIFY SCOPE PRIOR TO BIDDING.
 - 6 → COMMUNICATIONS DEVICES TO BE REWORKED BY DIVISION 27 SUBCONTRACTORS UNDER ALLOWANCES. COORDINATE TO DELETE ASSOCIATED CABLING, RACEWAYS, BOXES, ETC. (NOT ALL INDICATED).
 - 7 → CUT & PATCH TO RELOCATE DEVICE TO SPECIFIED MOUNTING HEIGHT.
 - 8 → SALVAGE EXIT SIGN FOR RESTORATION.
• REWORK BRANCH WIRING TO NEW SOURCE.
• REINSTALL.
REFER TO ALLOWANCE WORKS.
 - 9 → MAINTAIN RACEWAY, BOXES, CABLING & CONTROLS (NOT ALL INDICATED) SERVING WINDOW SHADES.
 - 10 → DELETE LUMINAIRES. ASSOCIATED RIGGING TO BE REWORKED UNDER ALLOWANCE.
 - 11 → DELETE LUMINAIRES. MODIFY ATTIC HOUSINGS AS REQUIRED TO SUIT REDUCED APERTURE LUMINAIRES.
- DESIGNATIONS**
EQUIPMENT, WIRING DEVICES, LUMINAIRES, ETC. WITHOUT A TAG ARE EXISTING TO REMAIN. ITEMS ARE SHOWN ONLY FOR COORDINATION.
- ABATEMENT**
INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.
- ALLOWANCE WORKS**
REFER TO DIVISION 01 SPECIFICATION FOR DETAILS OF DIVISION 26, 27 & 28 WORKS TO BE QUANTIFIED UNDER ALLOWANCE.



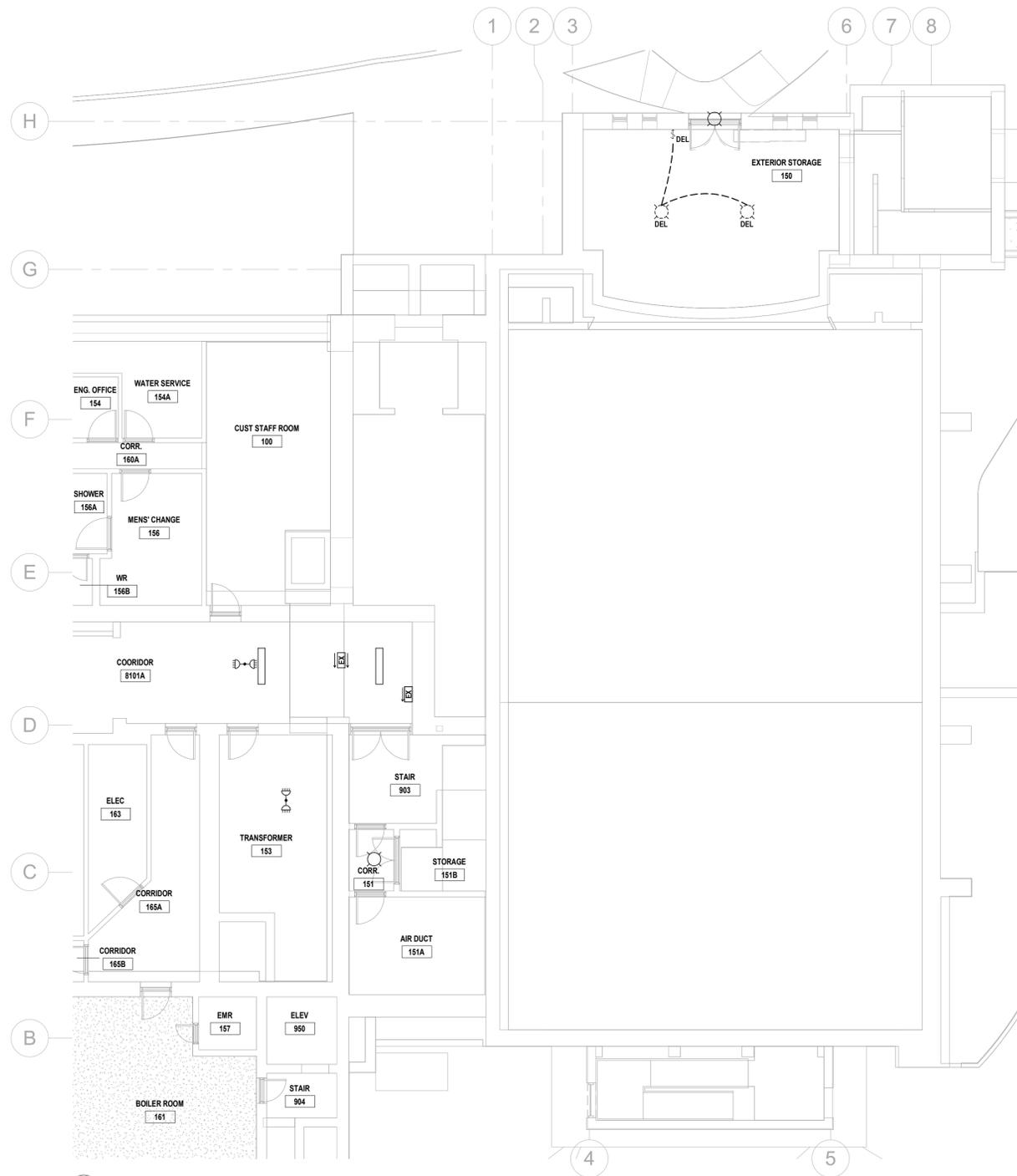
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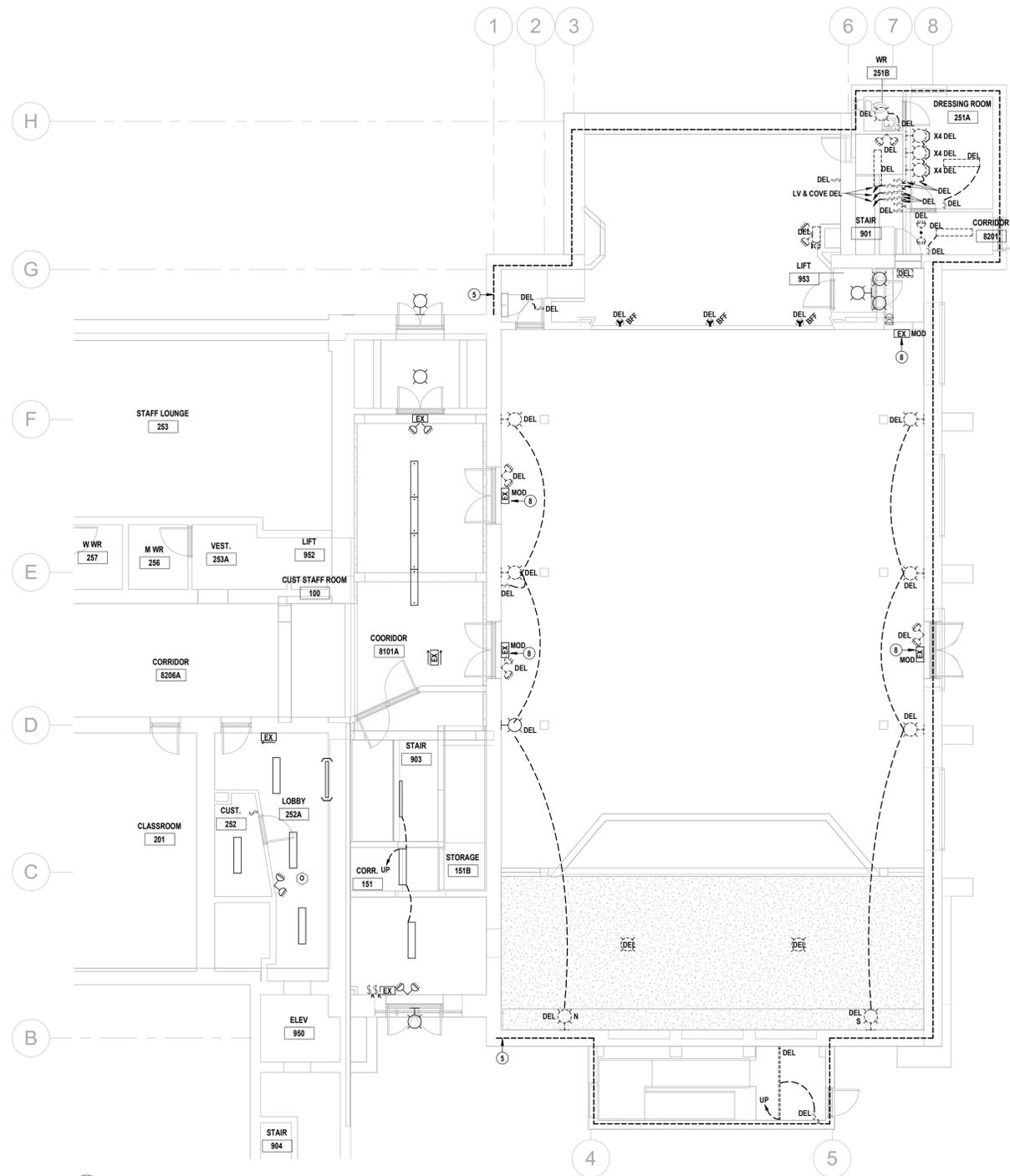
Galt Collegiate Institute
200 Water Street North, Cambridge, ON
Project No.: 25067
Checked By: A.W.G.
Drawn By: A.T.
EXISTING POWER, COMMUNICATIONS & SECURITY PLANS



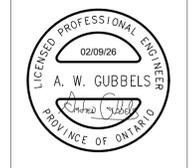
E1.2



1 EXISTING FIRST FLOOR LIGHTING PLAN
E1.3 SCALE: 1:100



2 EXISTING SECOND FLOOR LIGHTING PLAN
E1.3 SCALE: 1:100



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ISSUED FOR COORDINATION
2024-12-17
2024-02-11

A.W.G.
A.W.G.
A.W.G.



Galt Collegiate Institute
Tassie Hall Upgrade
200 Water Street North, Cambridge, ON

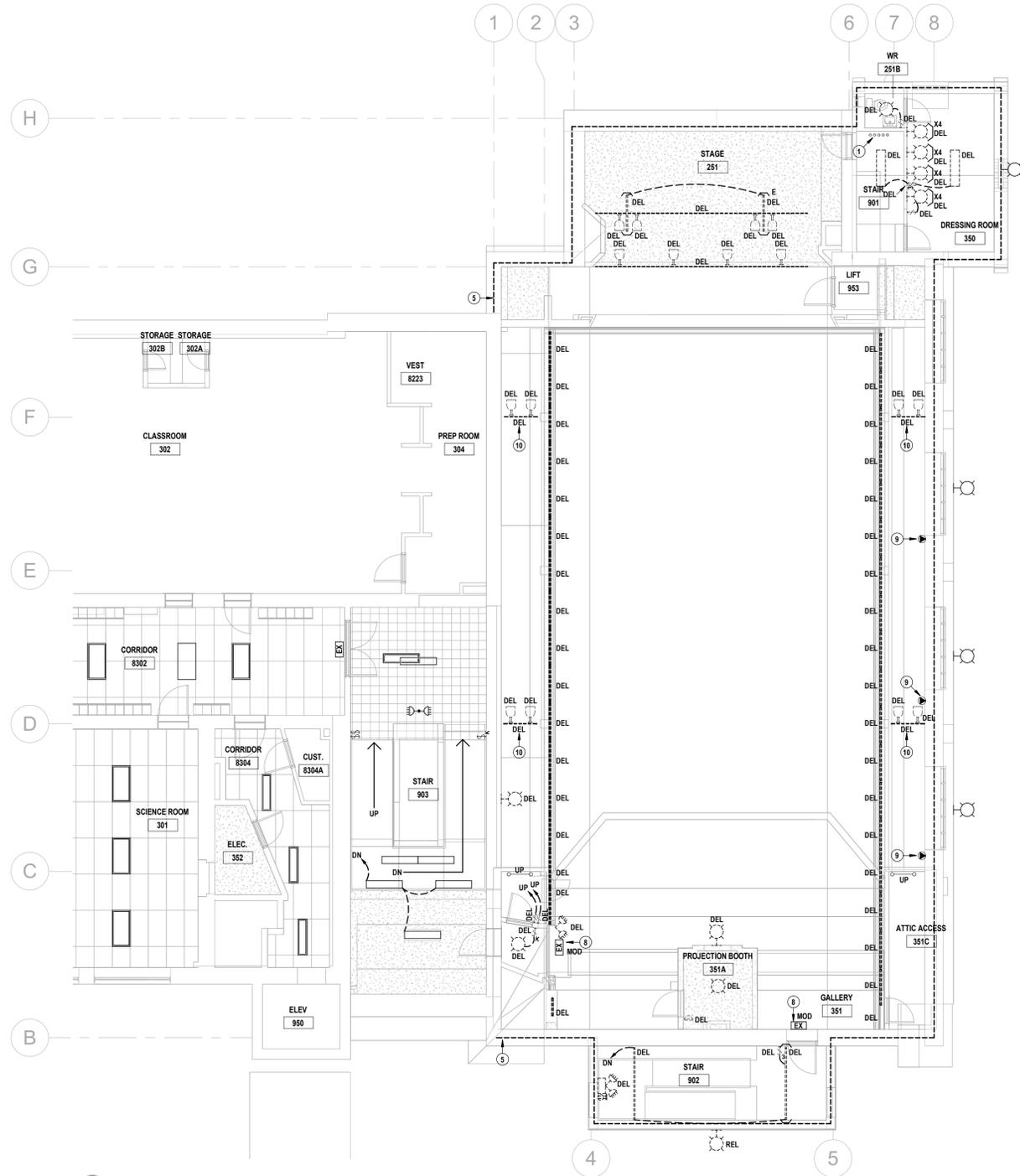
Project No.: 25067
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EXISTING LIGHTING PLANS

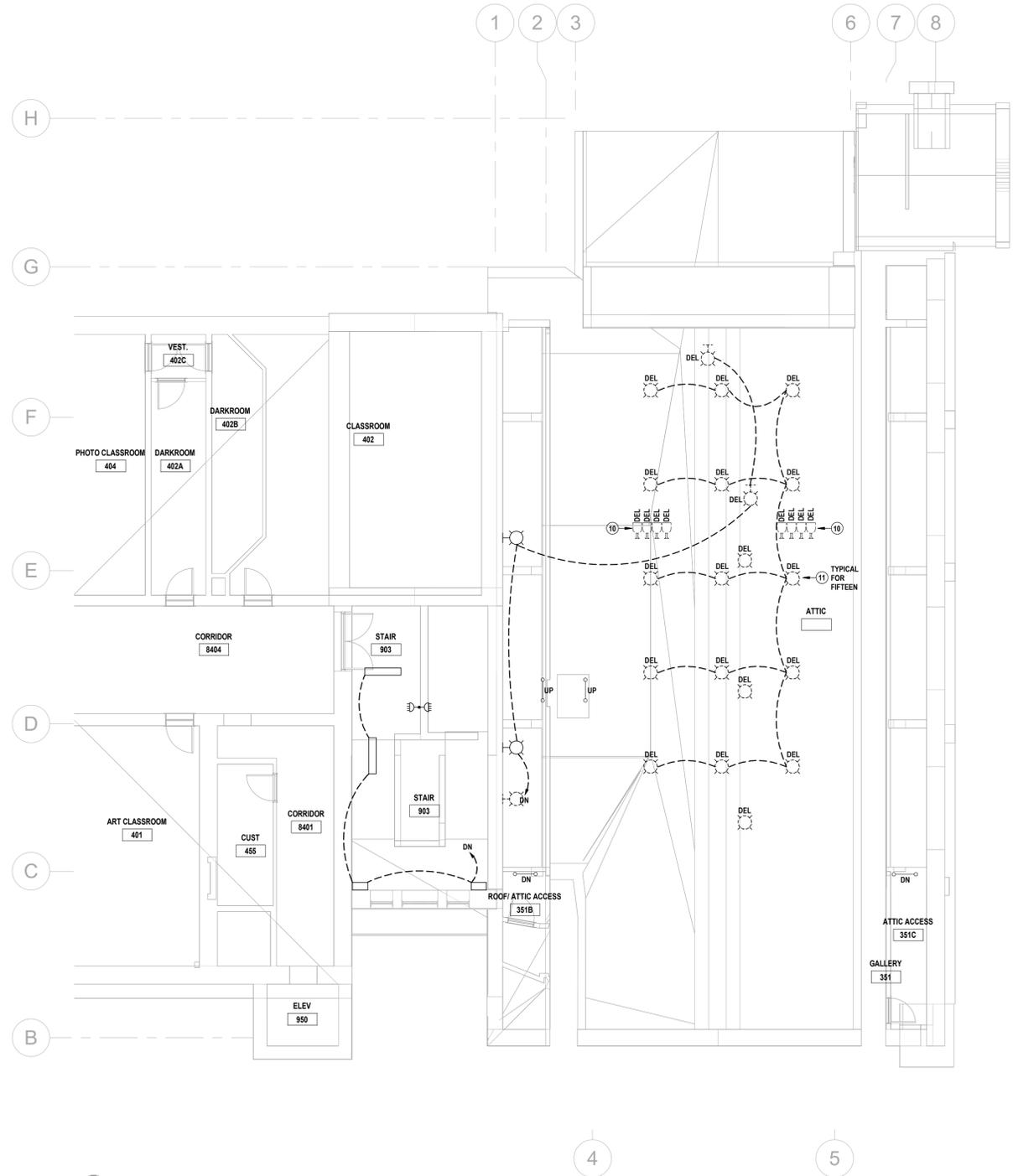
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- 1 → DELETE POWER DISTRIBUTION EQUIPMENT & FEEDERS AS OUTLINED.
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• REFER TO CONSTRUCTION PHASING.
 - 2 → MAINTAIN CONDUCTORS.
• FIELD CONFIRM ROUTE.
• PROVIDE HARDWARE SPACERS TO MAINTAIN FREE AIR RATING.
• REWORK AS REQUIRED TO SUIT STRUCTURAL & HVAC INSTALLATIONS.
REFER TO SEPARATE PRICE.
 - 3 → REWORK FIRE ALARM CONDUITS & SPLITTER AS REQUIRED TO ACCOMMODATE NEW POWER DISTRIBUTION BOARD.
 - 4 → DELETE CORDS, PLUGS, CABLES, DMX DEVICES, LAMP HOLDERS, REDUNDANT BRANCH WIRING, CONDUITS, BOXES & COMMUNICATIONS CABLING (NOT ALL INDICATED). QUANTIFY SCOPE PRIOR TO BIDDING.
 - 5 → SCHEDULE WITH DIVISION 04 WORK TO DELETE ALL EXPOSED RACEWAYS ALONG THIS DELINEATION. QUANTIFY SCOPE PRIOR TO BIDDING.
 - 6 → COMMUNICATIONS DEVICES TO BE REWORKED BY DIVISION 27 SUBCONTRACTORS UNDER ALLOWANCES. COORDINATE TO DELETE ASSOCIATED CABLING, RACEWAYS, BOXES, ETC. (NOT ALL INDICATED).
 - 7 → CUT & PATCH TO RELOCATE DEVICE TO SPECIFIED MOUNTING HEIGHT.
 - 8 → SALVAGE EXIT SIGN FOR RESTORATION.
• REWORK BRANCH WIRING TO NEW SOURCE.
• REINSTALL.
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 - 9 → MAINTAIN RACEWAY, BOXES, CABLING & CONTROLS (NOT ALL INDICATED) SERVING WINDOW SHADES.
 - 10 → DELETE LUMINAIRES ASSOCIATED RIGGING TO BE REWORKED UNDER ALLOWANCE.
 - 11 → DELETE LUMINAIRES. MODIFY ATTIC HOUSINGS AS REQUIRED TO SUIT REDUCED APERTURE LUMINAIRES.
- DESIGNATIONS**
EQUIPMENT, WIRING DEVICES, LUMINAIRES, ETC. WITHOUT A TAG ARE EXISTING TO REMAIN. ITEMS ARE SHOWN ONLY FOR COORDINATION.
- ABATEMENT**
INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.
- ALLOWANCE WORKS**
REFER TO DIVISION 01 SPECIFICATION FOR DETAILS OF DIVISION 26, 27 & 28 WORKS TO BE QUANTIFIED UNDER ALLOWANCE.



E1.3



1 EXISTING THIRD FLOOR LIGHTING PLAN
E1.4 SCALE: 1:100



2 EXISTING FOURTH FLOOR & ATTIC LIGHTING PLAN
E1.4 SCALE: 1:100

- EXISTING DRAWING NOTES**
- 1 → DELETE POWER DISTRIBUTION EQUIPMENT & FEEDERS AS OUTLINED.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING.
 - 2 → MAINTAIN CONDUCTORS.
• FIELD CONFIRM ROUTE.
• PROVIDE HARDWARE SPACERS TO MAINTAIN FREE AIR RATING.
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• REWORK BRANCH WIRING TO NEW SOURCE.
• REINSTALL.
REFER TO ALLOWANCE WORKS.
 - 9 → MAINTAIN RACEWAY, BOXES, CABLING & CONTROLS (NOT ALL INDICATED) SERVING WINDOW SHADES.
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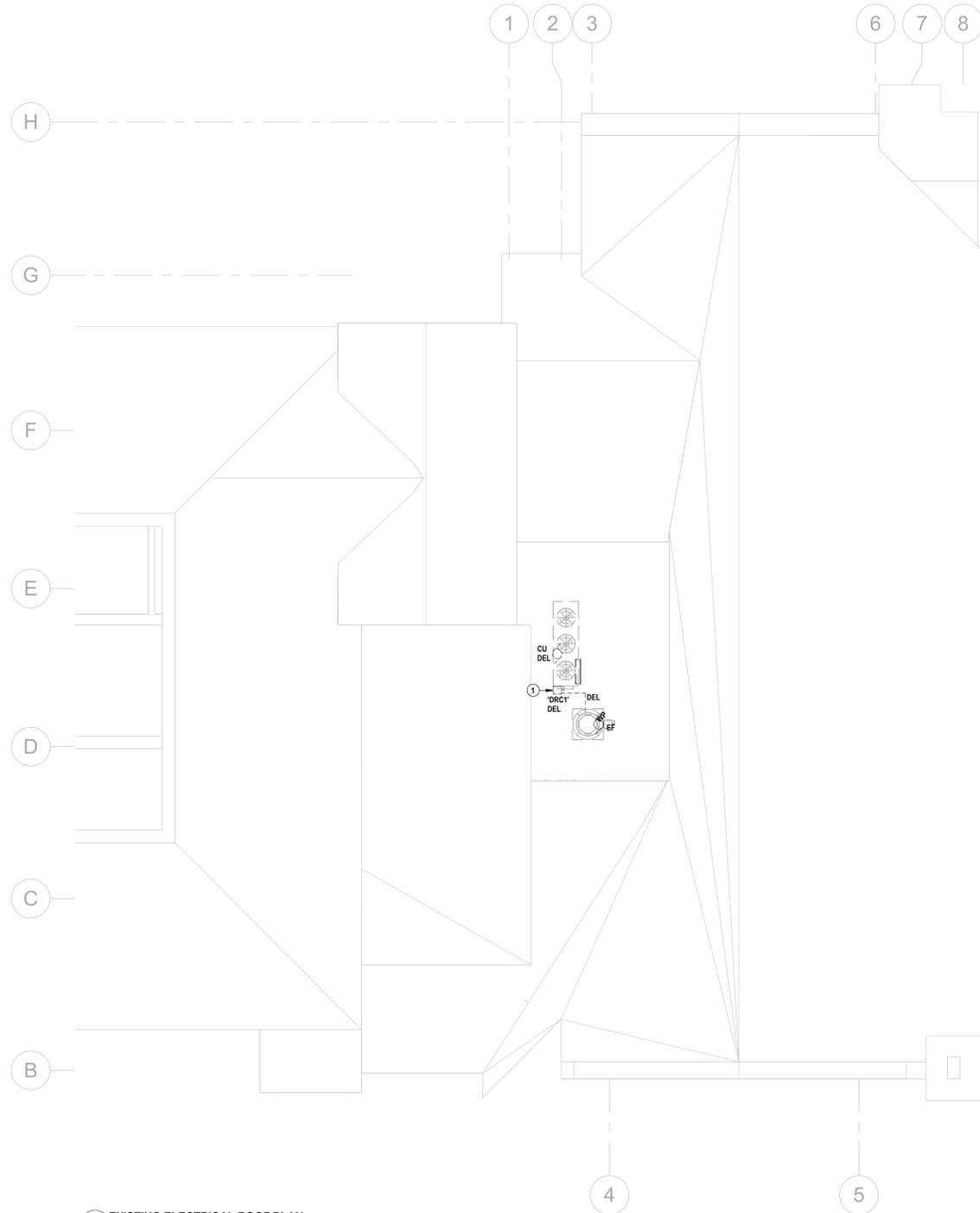
200 Water Street North, Cambridge, ON

Project No.: 25067
Checked By: A.W.G.
Drawn By: A.T.

EXISTING LIGHTING PLANS



E1.4



1 EXISTING ELECTRICAL ROOF PLAN
 E1.5 SCALE: 1:100

- | EXISTING DRAWING NOTES | |
|--|--|
| ① → DELETE POWER DISTRIBUTION EQUIPMENT & FEEDERS AS OUTLINED.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING. | ⑧ → SALVAGE EXIT SIGN FOR RESTORATION.
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| ⑦ → CUT & PATCH TO RELOCATE DEVICE TO SPECIFIED MOUNTING HEIGHT. | ALLOWANCE WORKS
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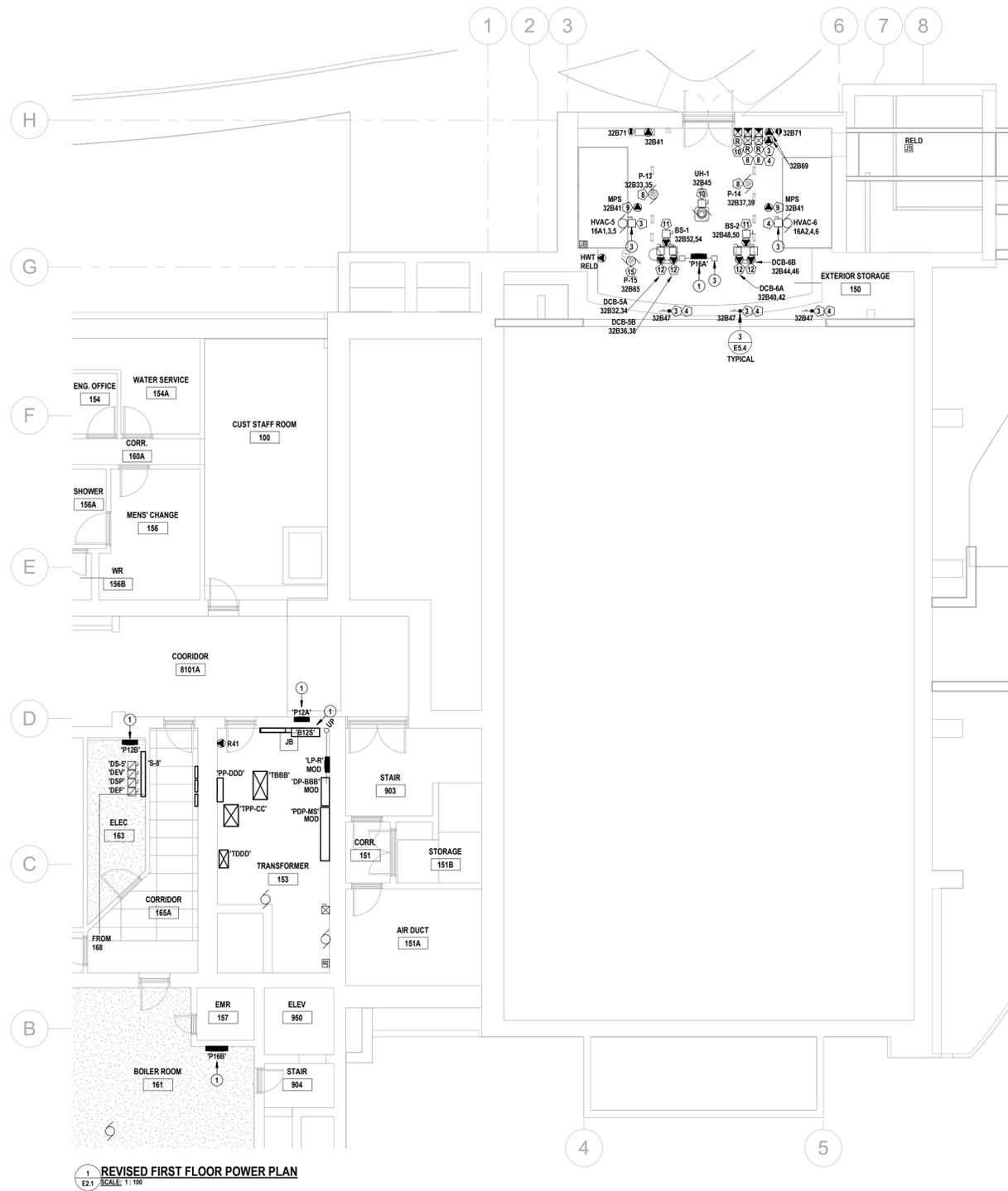


Galt Collegiate Institute
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 Tassie Hall Upgrade

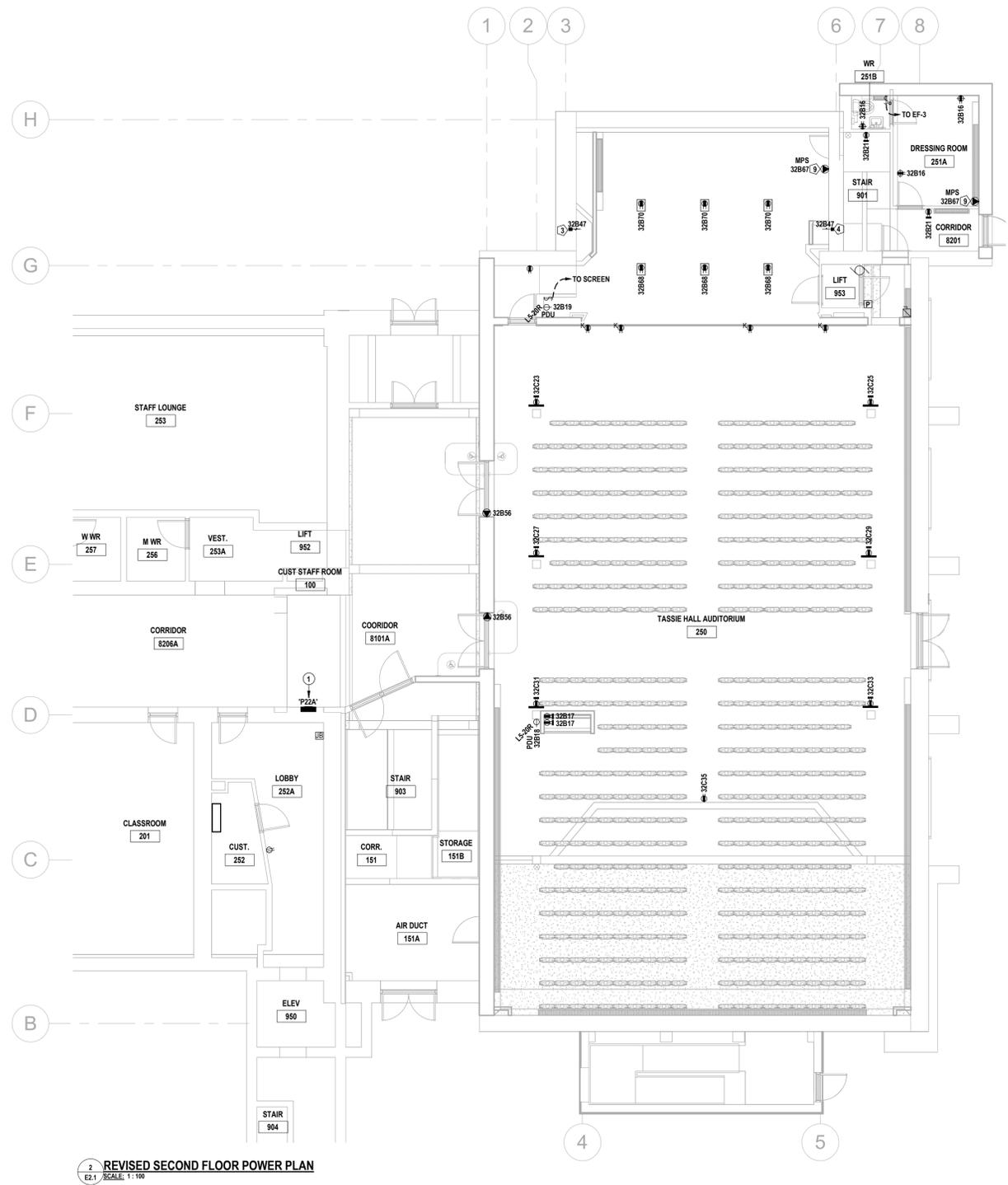
EXISTING ELECTRICAL ROOF PLAN

Project No.:	25067	Checked By:	A.W.G.
Drawn By:	A.T.	Drawn By:	A.W.G.



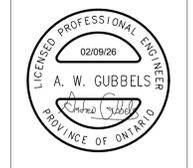


1 REVISED FIRST FLOOR POWER PLAN
E2.1 SCALE: 1:100



2 REVISED SECOND FLOOR POWER PLAN
E2.1 SCALE: 1:100

- REVISED DRAWING NOTES**
- 1 PROVIDE POWER DISTRIBUTION.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING.
 - 2 PROVIDE FREEZE PROTECTION HEAT TRACE.
• INSTALL CABLING IN THE EQUIPMENT PAN & AROUND THE DRAIN PIPING PRIOR TO INSULATION WRAP.
• PROVIDE RELAYS & AMBIENT SENSING THERMOSTAT FOR CONTROL.
 - 3 PROVIDE STRUT (NOT INDICATED) ANCHORED FROM FLOOR TO CEILING TO SUPPORT EQUIPMENT BRANCH FEEDERS, ETC.
 - 4 PROVIDE EMERGENCY LIGHTING POWER SUPPLY.
• PROVIDE AC BRANCH WIRING TO REMOTE EMERGENCY LUMINAIRES AS CIRCUITED.
• PROVIDE STRUT MOUNTING SHELF.
 - 5 PROVIDE BOX & WIRING FOR FUTURE AUDIBLE-VISUAL SIGNAL DEVICE.
 - 6 PROVIDE CLEARLY LABELED FIRE ALARM RELAYS & CONNECTIONS TO THE FOLLOWING:
• ACCESS CONTROLS, RATED POWER-OPERATED DOORS, HOLD-OPEN DEVICES OR FIRE SMOKE DAMPERS. COORDINATE WITH DIVISION 28 SUBCONTRACTORS.
• AUDIO/VIDEO EQUIPMENT. COORDINATE WITH DIVISION 27 SUBCONTRACTOR.
• MECHANICAL EQUIPMENT. COORDINATE WITH DIVISION 21 & 23 SUBCONTRACTORS.
REFER TO APPLICABLE SCHEMATICS.
 - 7 CONNECT TO ROOM LIGHTING BRANCH CIRCUIT, UPSTREAM OF CONTROLS.
 - 8 RECOMMENDED ROUTE OF NEW FEEDERS, DETERMINE OPTIMAL ROUTE ON-SITE.
• MAINTAIN EXIT STAIR INTEGRITY. RATED BULKHEAD(S) PROVIDED BY DIVISION 01.
• COORDINATE TO SUIT NEW DIVISION 23 ATTIC INSTALLATIONS.
• PROVIDE CONDUIT SUPPORTS & PERSONNEL PLATFORMS/CATWALKS AS REQUIRED FOR WORK IN THE ATTIC.
• FIRE STOP ALL RATED PENETRATIONS.
 - 9 COORDINATE WITH DIVISION 01 TO PROVIDE NEW ATTIC OPENING TO HALL 250. PROVIDE MOUNTING ENCLOSURE & CEILING GRILLE TO MATCH EXISTING. EXTEND PERSONNEL PLATFORMS/CATWALKS AS REQUIRED.
 - 10 PROVIDE DUCT-TYPE SMOKE DETECTOR ASSEMBLY.
• INSTALL DETECTOR ON SIDE OF SUPPLY DUCT.
• INSTALL SAMPLING TUBES UPSTREAM OF BRANCH DUCTS. CONFIRM DUCT DIMENSIONS PRIOR TO ORDERING.
• PROVIDE RELAY, WIRING & REMOTE LED.
• ZONE INDEPENDENTLY & PROGRAM SUCH THAT ACTIVATION OF THE DUCT DETECTOR WILL DE-ENERGIZE THE AIR HANDLING UNIT.
 - 11 PROVIDE AN ADDRESSABLE POWER SUPPLY (APS).
• PROVIDE WIRING TO SIGNALING DEVICES WITHIN THE WORK AREAS.
• PROVIDE WIRING TO ANCLARY DEVICES WITHIN THE WORK AREAS.
• PROVIDE BRANCH WIRING FROM NEW 15A-1P, RED, LOCKABLE BREAKER IN ADJACENT SQUARE D NO 1P-R.
 - 12 AUDIO/VIDEO (AV) & ASSISTIVE LISTENING (AL) EQUIPMENT PROVIDED UNDER ALLOWANCE.
• PROVIDE POWER & PATHWAYS INCLUDING JUNCTION BOXES (NOT SHOWN), TERMINATION BOXES/TROUSERS, ETC. TO FIELD DEVICES (SPEAKERS, MICROPHONES, MIXERS, PROJECTOR, VIDEO TRANSCODERS, ETC.).
• DASHED LINES REPRESENT SUGGESTED CONDUIT ROUTES.
• REFER TO SHERWOOD SYSTEMS DESIGN PACKAGE FOR QUANTITIES, LAYOUTS & ADDITIONAL DETAIL.
- SEPARATE PRICE**
INDICATE ON THE BID FORM A PRICE FOR ALL MATERIAL & LABOUR ASSOCIATED WITH THE FOLLOWING:
• DELETION OF THE EXISTING TECK FEEDERS BETWEEN DP-BBB & 'STL'.
• PROVISION OF 4#30 190 IN 53 EMT BETWEEN DP-BBB & P32B.
- SPRINKLERED FLOOR AREAS**
NEW HEAT DETECTORS ARE NOT REQUIRED DUE TO THE PROVISION OF AN AUTOMATIC SPRINKLER SYSTEM.
- COMMUNICATIONS & SECURITY PATHWAYS**
PROVIDE RECESSED OUTLET BOXES FOR ALL INDICATED DEVICES.
PROVIDE CONDUITS TO THE NEAREST ACCESSIBLE CEILING, HANGER, CABLE TRAY OR PULL BOX.
• 1x21 CONDUIT FROM EACH BOX (BY DEFAULT).
• 1x27 CONDUIT FROM EACH BOX WITH MORE THAN TWO DATA DROPS & FROM EACH AUDIO/VIDEO BOX.
• PULL TAPES & PLASTIC BUSHINGS FOR ALL CONDUITS & SLEEVES.
PROVIDE SLEEVES (S) WITH THE DIAMETER OUTLINED.
• EMT SLEEVES (BY DEFAULT).
• RE-PENETRABLE (RP) SLEEVES WHERE OUTLINED.
• SELF-SEALING (SS) WHERE OUTLINED.
PROVIDE SUSPENDED CABLE TRAYS. BOND. REFER TO DETAILS.
PROVIDE CABLE HANGERS. REFER TO DETAIL.
- ACCESS CONTROLLED OPENINGS**
AT EACH CONTROLLED OPENING, PROVIDE THE FOLLOWING CONDUITS (NOT INDICATED) FROM A CLEARLY LABELED BOX (AFC) FOR ACCESS CONTROL CABLING INSTALLATIONS:
1x16 TO EACH OF THE FOLLOWING WHERE APPLICABLE:
• MULLION MORTAR BOX FOR CURRENT TRANSFERS(S).
• DOOR HEADER.
• AUTO OPERATOR.
• DAY-NIGHT-OFF KEY SWITCH.
• DOOR CONTACT(S).
• ELECTRIC EGRESS DEVICE/DOOR STRIKE.
1x21 TO A SINGLE GANG BOX, UNLESS OTHERWISE SPECIFIED, FOR EACH OF THE FOLLOWING RECESSED DEVICES WHERE INDICATED:
• DOOR OPERATOR PUSH BUTTONS.
• PROXIMITY READERS.
• PUSH TO LOCK BUTTONS.
• OCCUPANCY INDICATORS.
REFER TO DOOR ELEVATION DRAWINGS.



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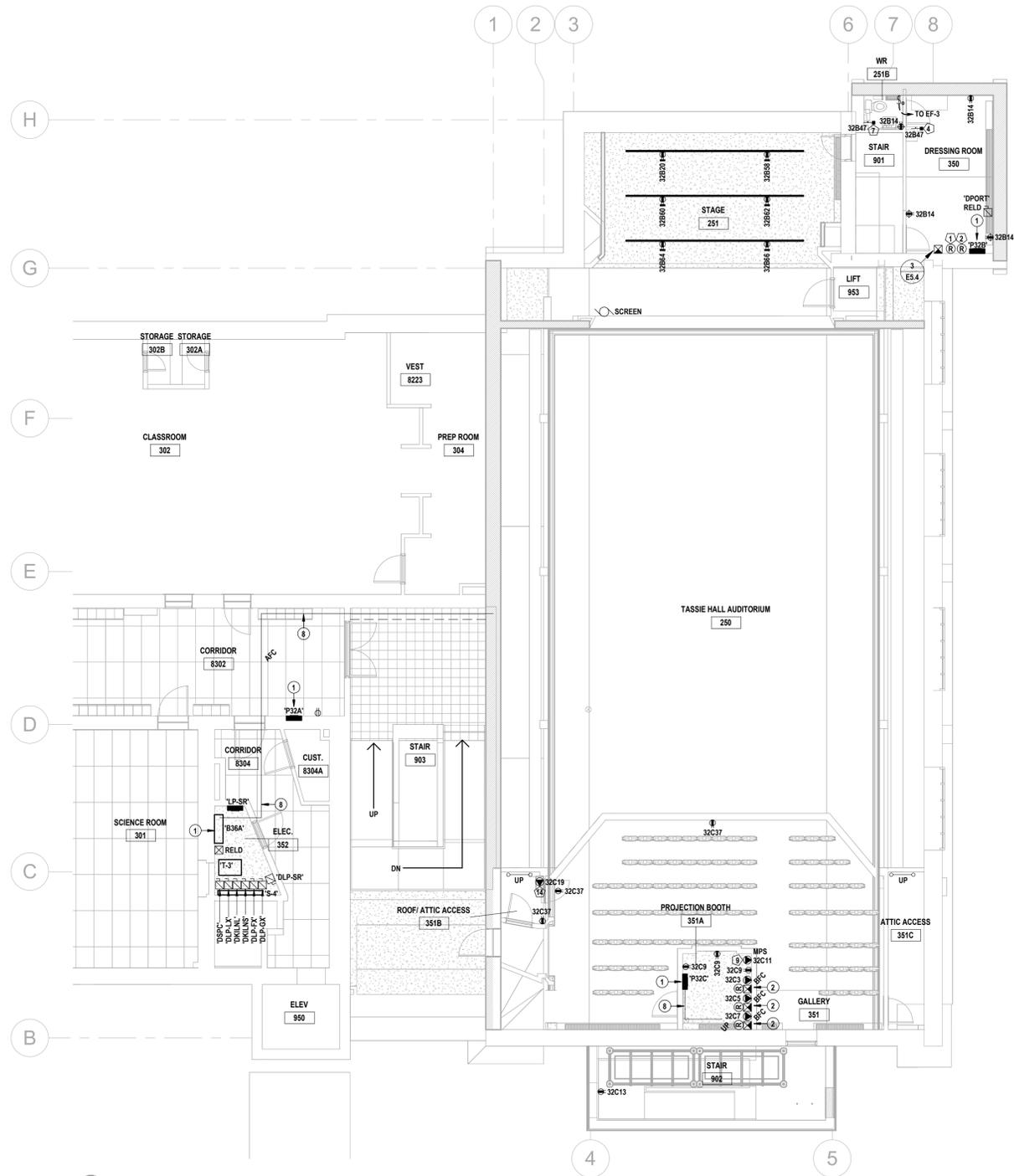


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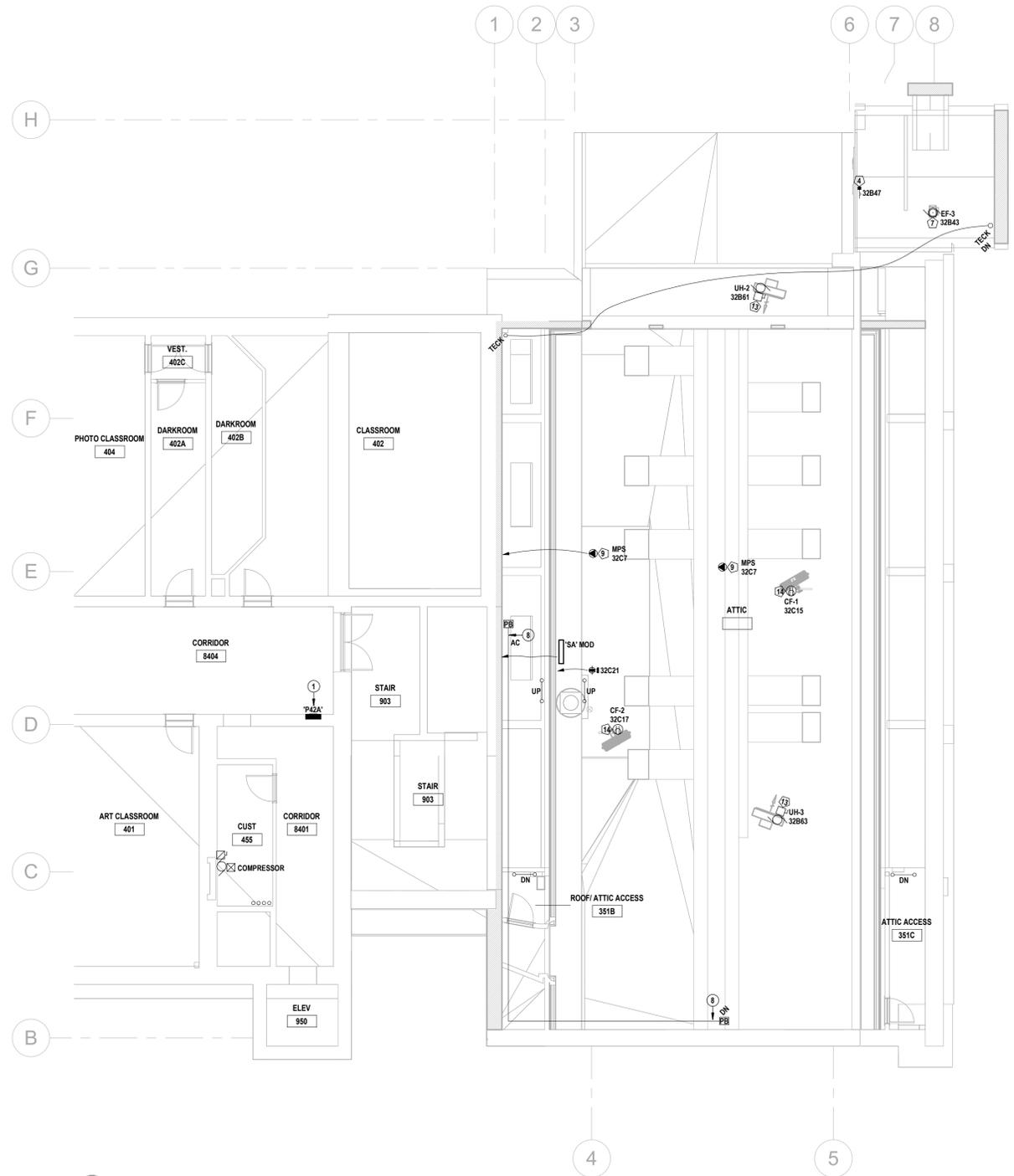
Project No.: 25067
Drawn By: A.T.
Checked By: A.W.G.

REVISED POWER PLANS





1 REVISED THIRD FLOOR POWER PLAN
E2.2 SCALE: 1:100



2 REVISED FOURTH FLOOR POWER PLAN
E2.2 SCALE: 1:100

- REVISED DRAWING NOTES**
- PROVIDE POWER DISTRIBUTION.
 - REFER TO SINGLE LINE DIAGRAMS.
 - REFER TO CONSTRUCTION PHASING.
 - PROVIDE FREEZE PROTECTION HEAT TRACE.
 - INSTALL CABLING IN THE EQUIPMENT PAN & AROUND THE DRAIN PIPING PRIOR TO INSULATION WRAP.
 - PROVIDE RELAYS & AMBIENT SENSING THERMOSTAT FOR CONTROL.
 - PROVIDE STRUT (NOT INDICATED) ANCHORED FROM FLOOR TO CEILING TO SUPPORT EQUIPMENT BRANCH FEEDERS, ETC.
 - PROVIDE EMERGENCY LIGHTING POWER SUPPLY.
 - PROVIDE AC BRANCH WIRING TO REMOTE EMERGENCY LUMINAIRES AS CIRCUITED.
 - PROVIDE STRUT MOUNTING SHELF.
 - PROVIDE BOX & WIRING FOR FUTURE AUDIBLE-VISUAL SIGNAL DEVICE.
 - PROVIDE CLEARLY LABELED FIRE ALARM RELAYS & CONNECTIONS TO THE FOLLOWING:
 - ACCESS CONTROLS, RATED POWER-OPERATED DOORS, HOLD-OPEN DEVICES OR FIRE SMOKE DAMPERS. COORDINATE WITH DIVISION 28 SUBCONTRACTORS.
 - AUDIO/VIDEO EQUIPMENT. COORDINATE WITH DIVISION 27 SUBCONTRACTOR.
 - MECHANICAL EQUIPMENT. COORDINATE WITH DIVISION 21 & 23 SUBCONTRACTORS. REFER TO APPLICABLE SCHEMATICS.
 - CONNECT TO ROOM LIGHTING BRANCH CIRCUIT, UPSTREAM OF CONTROLS.
 - RECOMMENDED ROUTE OF NEW FEEDERS. DETERMINE OPTIMAL ROUTE ON-SITE.
 - MAINTAIN EXIT STAIR INTEGRITY. RATED BULKHEAD(S) PROVIDED BY DIVISION 01.
 - COORDINATE TO SUIT NEW DIVISION 23 ATTIC INSTALLATIONS.
 - PROVIDE CONDUIT SUPPORTS & PERSONNEL PLATFORMS/CATWALKS AS REQUIRED FOR WORK IN THE ATTIC.
 - FIRE STOP ALL RATED PENETRATIONS.
 - COORDINATE WITH DIVISION 01 TO PROVIDE NEW ATTIC OPENING TO HALL 250. PROVIDE MOUNTING ENCLOSURE & CEILING GRILLE TO MATCH EXISTING. EXTEND PERSONNEL PLATFORMS/CATWALKS AS REQUIRED.
 - PROVIDE DUCT-TYPE SMOKE DETECTOR ASSEMBLY.
 - INSTALL DETECTOR ON SIDE OF SUPPLY DUCT.
 - INSTALL SAMPLING TUBES UPSTREAM OF BRANCH DUCTS. CONFIRM DUCT DIMENSIONS PRIOR TO ORDERING.
 - PROVIDE RELAY, WIRING & REMOTE LED.
 - ZONE INDEPENDENTLY & PROGRAM SUCH THAT ACTIVATION OF THE DUCT DETECTOR WILL DE-ENERGIZE THE AIR HANDLING UNIT.
 - PROVIDE AN ADDRESSABLE POWER SUPPLY (APS).
 - PROVIDE WIRING TO SIGNALING DEVICES WITHIN THE WORK AREAS.
 - PROVIDE WIRING TO ANCILLARY DEVICES WITHIN THE WORK AREAS.
 - PROVIDE BRANCH WIRING FROM NEW 15A-1P, RED, LOCKABLE BREAKER IN ADJACENT SQUARE D NO LP-R.
 - AUDIO-VIDEO (AV) & ASSISTIVE LISTENING (AL) EQUIPMENT PROVIDED UNDER ALLOWANCE.
 - PROVIDE POWER & PATHWAYS INCLUDING JUNCTION BOXES (NOT SHOWN), TERMINATION BOXES/TROUSERS, ETC. TO FIELD DEVICES (SPEAKERS, MICROPHONES, MIXERS, PROJECTOR, VIDEO TRANSCODERS, ETC.).
 - DASHED LINES REPRESENT SUGGESTED CONDUIT ROUTES.
 - REFER TO SHERWOOD SYSTEMS DESIGN PACKAGE FOR QUANTITIES, LAYOUTS & ADDITIONAL DETAIL.
- SEPARATE PRICE**
INDICATE ON THE BID FORM A PRICE FOR ALL MATERIAL & LABOUR ASSOCIATED WITH THE FOLLOWING:
 • DELETION OF THE EXISTING TECK FEEDERS BETWEEN 'DP-BBB' & 'STL'.
 • PROVISION OF 4#30 T90 IN 53 EMT BETWEEN 'DP-BBB' & 'P32B'.
- SPRINKLERED FLOOR AREAS**
NEW HEAT DETECTORS ARE NOT REQUIRED DUE TO THE PROVISION OF AN AUTOMATIC SPRINKLER SYSTEM.
- COMMUNICATIONS & SECURITY PATHWAYS**
PROVIDE RECESSED OUTLET BOXES FOR ALL INDICATED DEVICES. PROVIDE CONDUITS TO THE NEAREST ACCESSIBLE CEILING, HANGER, CABLE TRAY OR PULL BOX.
 • 1/2" CONDUIT FROM EACH BOX (BY DEFAULT).
 • 1/2" CONDUIT FROM EACH BOX WITH MORE THAN TWO DATA DROPS & FROM EACH AUDIO/VIDEO BOX.
 • PULL TAPES & PLASTIC BUSHINGS FOR ALL CONDUITS & SLEEVES. PROVIDE SLEEVES (S) WITH THE DIAMETER OUTLINED.
 • EMT SLEEVES (BY DEFAULT).
 • RE-PENETRABLE (RP) SLEEVES WHERE OUTLINED.
 • SELF-SEALING (SS) WHERE OUTLINED.
 PROVIDE SUSPENDED CABLE TRAYS. BOND. REFER TO DETAILS. PROVIDE CABLE HANGERS. REFER TO DETAIL.
- ACCESS CONTROLLED OPENINGS**
AT EACH CONTROLLED OPENING, PROVIDE THE FOLLOWING CONDUITS (NOT INDICATED) FROM A CLEARLY LABELED BOX (AP), FOR ACCESS CONTROL CABLING INSTALLATIONS:
 1/16 TO EACH OF THE FOLLOWING WHERE APPLICABLE:
 • MILLION MORTAR BOX FOR CURRENT TRANSFERS(S).
 • DOOR HEADER.
 • AUTO OPERATOR.
 • DAY-NIGHT-OFF KEY SWITCH.
 • DOOR CONTACT(S).
 • ELECTRIC EGRESS DEVICE/DOOR STRIKE.
 1/2" TO A SINGLE GANG BOX, UNLESS OTHERWISE SPECIFIED, FOR EACH OF THE FOLLOWING RECESSED DEVICES WHERE INDICATED:
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 • PROXIMITY READERS.
 • PUSH TO LOCK BUTTONS.
 • OCCUPANCY INDICATORS.
 REFER TO DOOR ELEVATION DRAWINGS.



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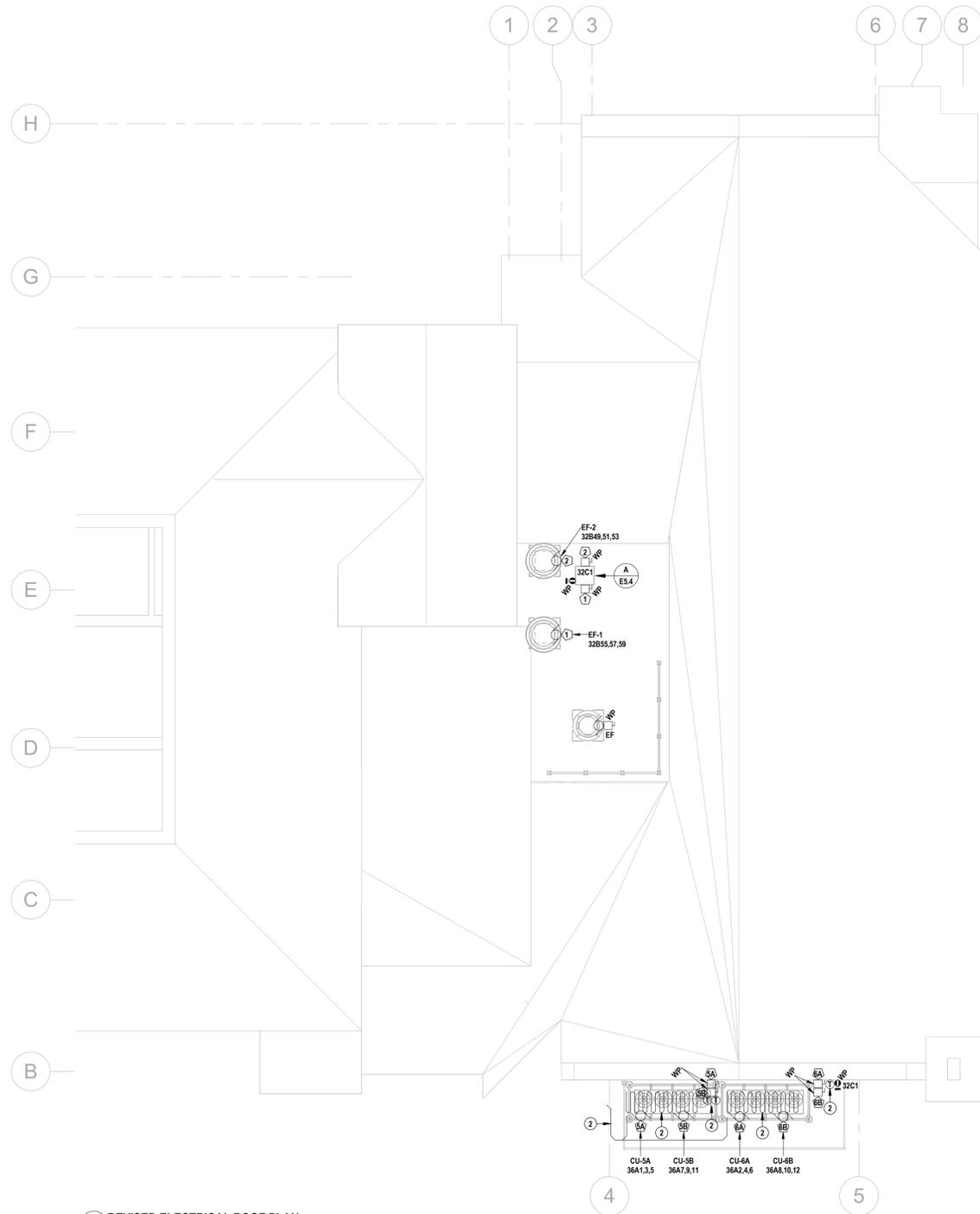
200 Water Street North, Cambridge, ON

Project No.: 25067
Drawn By: A.T.
Checked By: A.W.G.

REVISED POWER PLANS



E2.2



1 REVISED ELECTRICAL ROOF PLAN
E2.3 SCALE: 1/100

REVISED DRAWING NOTES

- ① → PROVIDE POWER DISTRIBUTION.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING.
- ② → PROVIDE FREEZE PROTECTION HEAT TRACE.
• INSTALL CABLING IN THE EQUIPMENT PAN & AROUND THE DRAIN PIPING PRIOR TO INSULATION WRAP.
• PROVIDE RELAYS & AMBIENT SENSING THERMOSTAT FOR CONTROL.
- ③ → PROVIDE STRUT (NOT INDICATED) ANCHORED FROM FLOOR TO CEILING TO SUPPORT EQUIPMENT BRANCH FEEDERS, ETC.
- ④ → PROVIDE EMERGENCY LIGHTING POWER SUPPLY.
• PROVIDE AC BRANCH WIRING TO REMOTE EMERGENCY LUMINAIRES AS CIRCUITED.
• PROVIDE STRUT MOUNTING SHELF.
- ⑤ → PROVIDE BOX & WIRING FOR FUTURE AUDIBLE-VISUAL SIGNAL DEVICE.
- ⑥ → PROVIDE CLEARLY LABELED FIRE ALARM RELAYS & CONNECTIONS TO THE FOLLOWING:
• ACCESS CONTROLS, RATED POWER-OPERATED DOORS, HOLD-OPEN DEVICES OR FIRE SMOKE DAMPERS. COORDINATE WITH DIVISION 28 SUBCONTRACTORS.
• AUDIO/VIDEO EQUIPMENT. COORDINATE WITH DIVISION 27 SUBCONTRACTOR.
• MECHANICAL EQUIPMENT. COORDINATE WITH DIVISION 21 & 23 SUBCONTRACTORS.
REFER TO APPLICABLE SCHEMATICS.
- ⑦ → CONNECT TO ROOM LIGHTING BRANCH CIRCUIT, UPSTREAM OF CONTROLS.
- ⑧ → RECOMMENDED ROUTE OF NEW FEEDERS. DETERMINE OPTIMAL ROUTE ON-SITE.
• MAINTAIN EXIT STAIR INTEGRITY. RATED BULKHEAD(S) PROVIDED BY DIVISION 01.
• COORDINATE TO SUIT NEW DIVISION 23 ATTIC INSTALLATIONS.
• PROVIDE CONDUIT SUPPORTS & PERSONNEL PLATFORMS/CATWALKS AS REQUIRED FOR WORK IN THE ATTIC.
• FIRE STOP ALL RATED PENETRATIONS.
- ⑨ → COORDINATE WITH DIVISION 01 TO PROVIDE NEW ATTIC OPENING TO HALL 250. PROVIDE MOUNTING ENCLOSURE & CEILING GRILLE TO MATCH EXISTING. EXTEND PERSONNEL PLATFORMS/CATWALKS AS REQUIRED.
- ⑩ → PROVIDE DUCT-TYPE SMOKE DETECTOR ASSEMBLY.
• INSTALL DETECTOR ON SIDE OF SUPPLY DUCT.
• INSTALL SAMPLING TUBES UPSTREAM OF BRANCH DUCTS. CONFIRM DUCT DIMENSIONS PRIOR TO ORDERING.
• PROVIDE RELAY, WIRING & REMOTE LED.
• ZONE INDEPENDENTLY & PROGRAM SUCH THAT ACTIVATION OF THE DUCT DETECTOR WILL DE-ENERGIZE THE AIR HANDLING UNIT.
- ⑪ → PROVIDE AN ADDRESSABLE POWER SUPPLY (APS).
• PROVIDE WIRING TO SIGNALING DEVICES WITHIN THE WORK AREAS.
• PROVIDE WIRING TO ANCILLARY DEVICES WITHIN THE WORK AREAS.
• PROVIDE BRANCH WIRING FROM NEW 15A-1P, RED, LOCKABLE BREAKER IN ADJACENT SQUARE D NO LP-R.
- ⑫ → AUDIO-VIDEO (AV) & ASSISTIVE LISTENING (AL) EQUIPMENT PROVIDED UNDER ALLOWANCE.
• PROVIDE POWER & PATHWAYS INCLUDING JUNCTION BOXES (NOT SHOWN), TERMINATION BOXES/TROUSERS, ETC. TO FIELD DEVICES (SPEAKERS, MICROPHONES, MIXERS, PROJECTOR, VIDEO TRANSCODERS, ETC.).
• DASHED LINES REPRESENT SUGGESTED CONDUIT ROUTES.
• REFER TO SHERWOOD SYSTEMS DESIGN PACKAGE FOR QUANTITIES, LAYOUTS & ADDITIONAL DETAIL.

SEPARATE PRICE
INDICATE ON THE BID FORM A PRICE FOR ALL MATERIAL & LABOUR ASSOCIATED WITH THE FOLLOWING:
• DELETION OF THE EXISTING TECK FEEDERS BETWEEN DP-BBB & STL.
• PROVISION OF 4#30 T90 IN S3 EMT BETWEEN DP-BBB & P32B.

SPRINKLERED FLOOR AREAS
NEW HEAT DETECTORS ARE NOT REQUIRED DUE TO THE PROVISION OF AN AUTOMATIC SPRINKLER SYSTEM.

COMMUNICATIONS & SECURITY PATHWAYS
PROVIDE RECESSED OUTLET BOXES FOR ALL INDICATED DEVICES. PROVIDE CONDUITS TO THE NEAREST ACCESSIBLE CEILING, HANGER, CABLE TRAY OR PULL BOX.
• 1x21 CONDUIT FROM EACH BOX (BY DEFAULT).
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• PULL TAPES & PLASTIC BUSHINGS FOR ALL CONDUITS & SLEEVES. PROVIDE SLEEVES (S) WITH THE DIAMETER OUTLINED.
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PROVIDE SUSPENDED CABLE TRAYS. BOND. REFER TO DETAILS. PROVIDE CABLE HANGERS. REFER TO DETAIL.

ACCESS CONTROLLED OPENINGS
AT EACH CONTROLLED OPENING, PROVIDE THE FOLLOWING CONDUITS (NOT INDICATED) FROM A CLEARLY LABELED BOX AFG, FOR ACCESS CONTROL CABLING INSTALLATIONS:
1x16 TO EACH OF THE FOLLOWING WHERE APPLICABLE:
• MILLION MORTAR BOX FOR CURRENT TRANSFERS(S).
• DOOR HEADER.
• AUTO OPERATOR.
• DAY-NIGHT-OFF KEY SWITCH.
• DOOR CONTACT(S).
• ELECTRIC EGRESS DEVICE/DOOR STRIKE.
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2025-11-07	ISSUED FOR COORDINATION	A.W.G.
2025-12-17	ISSUED FOR COORDINATION	A.W.G.
2026-02-11	ISSUED FOR BID	A.W.G.



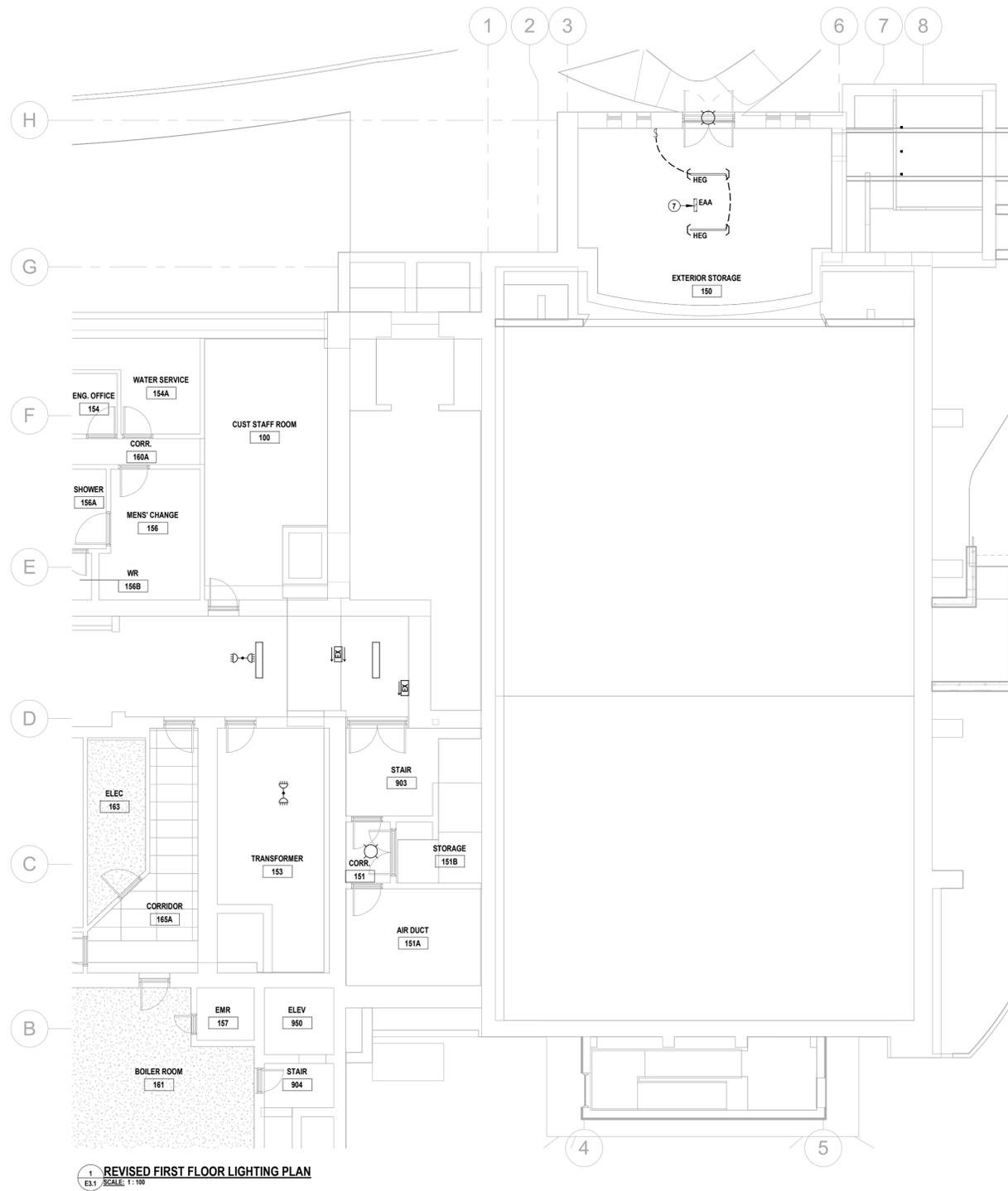
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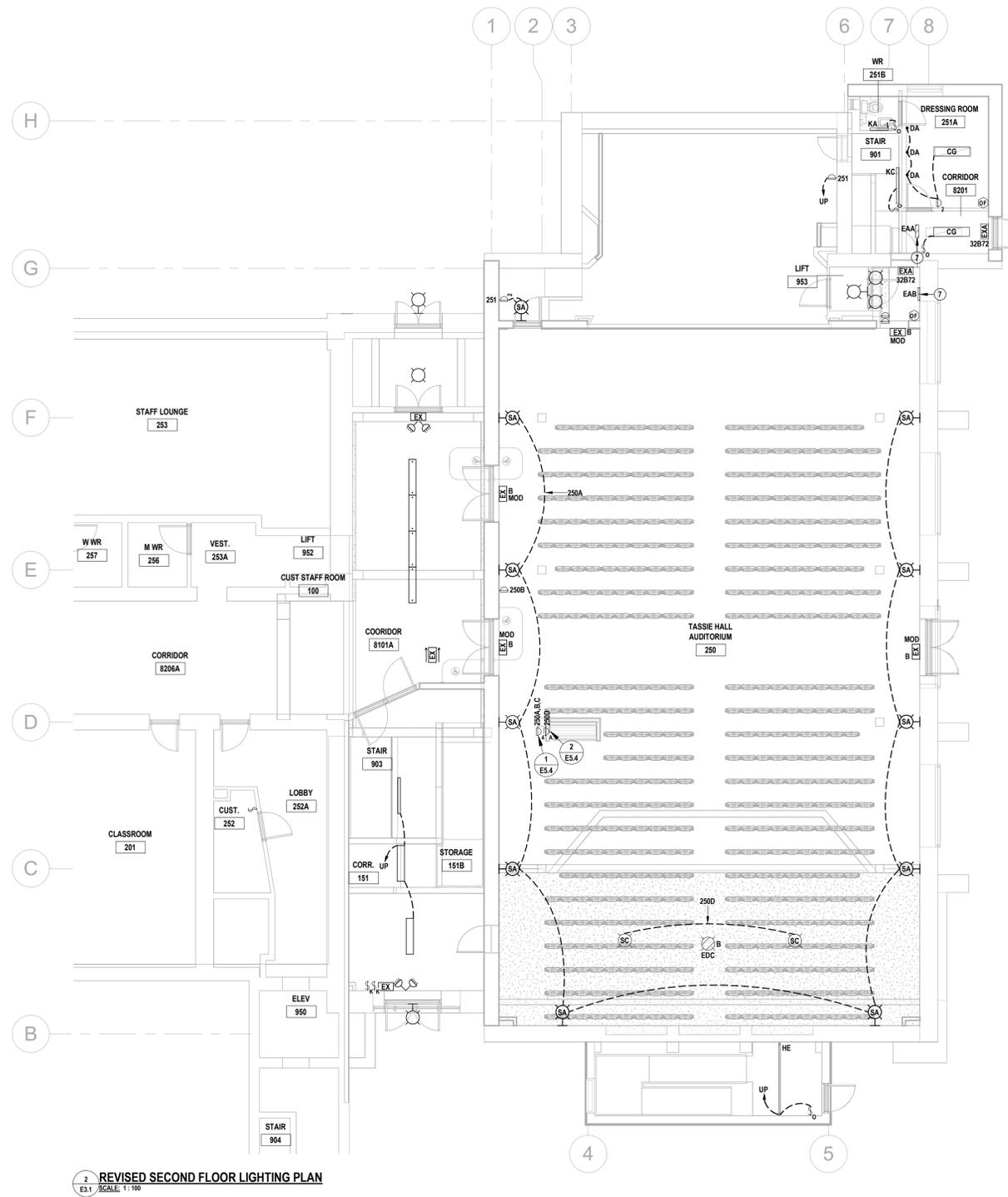
REVISED ELECTRICAL ROOF PLAN



E2.3



1 REVISED FIRST FLOOR LIGHTING PLAN
E3.1 SCALE: 1:100



2 REVISED SECOND FLOOR LIGHTING PLAN
E3.1 SCALE: 1:100

REVISED DRAWING NOTES

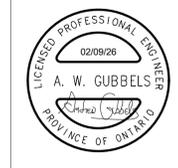
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• PROVIDE POWER & PATHWAYS INCLUDING JUNCTION BOXES (NOT SHOWN), TERMINATION BOXES/TROUSERS, ETC. TO FIELD DEVICES (SPEAKERS, MICROPHONES, MIXERS, PROJECTOR, VIDEO TRANSCODERS, ETC.).
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SEPARATE PRICE
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• PROVISION OF 4#30 T90 IN 53 EMT BETWEEN DP-BBB & P32B.

SPRINKLERED FLOOR AREAS
NEW HEAT DETECTORS ARE NOT REQUIRED DUE TO THE PROVISION OF AN AUTOMATIC SPRINKLER SYSTEM.

COMMUNICATIONS & SECURITY PATHWAYS
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• SELF-SEALING (SS) WHERE OUTLINED.
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• DAY-NIGHT-OFF KEY SWITCH.
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• ELECTRIC EGRESS DEVICE/DOOR STRIKE.
1x21 TO A SINGLE GANG BOX, UNLESS OTHERWISE SPECIFIED, FOR EACH OF THE FOLLOWING RECESSED DEVICES WHERE INDICATED:
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• PUSH TO LOCK BUTTONS.
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REFER TO DOOR ELEVATION DRAWINGS.



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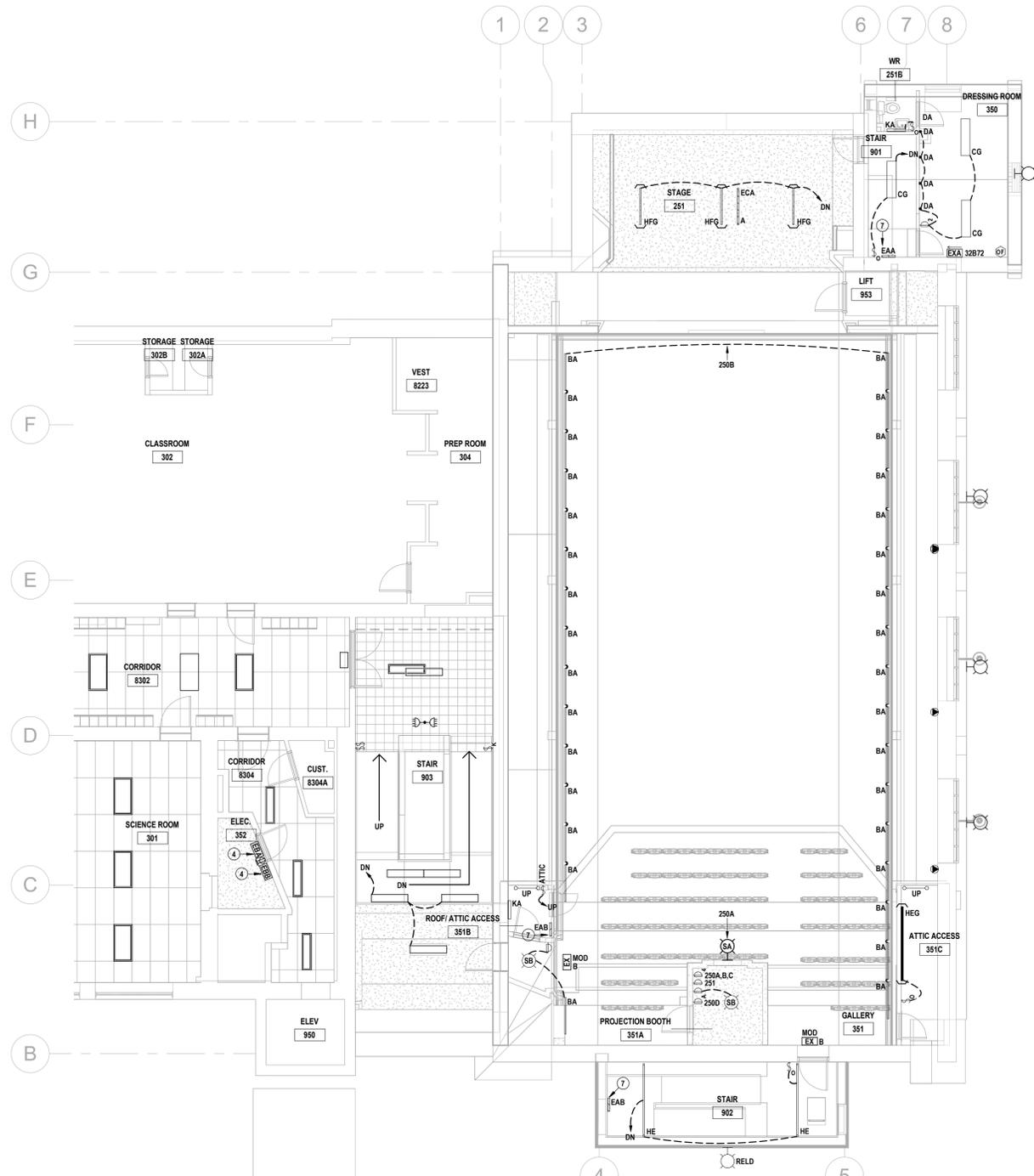


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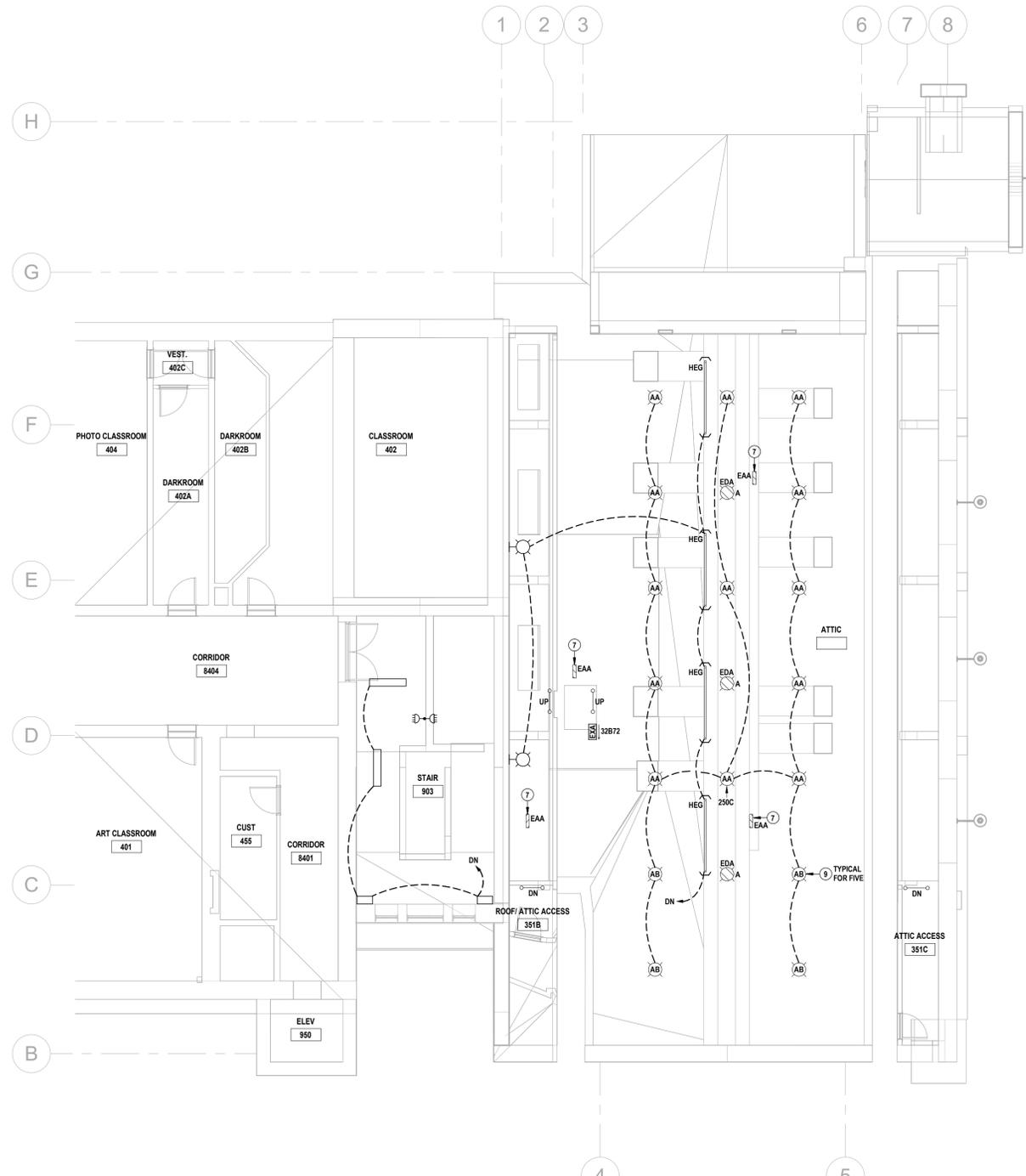
Project No.: 25067
Drawn By: A.T.
Checked By: A.W.G.

REVISED LIGHTING PLANS



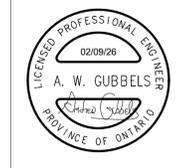


1 REVISED THIRD FLOOR LIGHTING PLAN
E3.2 SCALE: 1:100



2 REVISED FOURTH FLOOR LIGHTING PLAN
E3.2 SCALE: 1:100

- REVISED DRAWING NOTES**
- 1 PROVIDE POWER DISTRIBUTION.
• REFER TO SINGLE LINE DIAGRAMS.
• REFER TO CONSTRUCTION PHASING.
 - 2 PROVIDE FREEZE PROTECTION HEAT TRACE.
• INSTALL CABLING IN THE EQUIPMENT PAN & AROUND THE DRAIN PIPING PRIOR TO INSULATION WRAP.
• PROVIDE RELAYS & AMBIENT SENSING THERMOSTAT FOR CONTROL.
 - 3 PROVIDE STRUT (NOT INDICATED) ANCHORED FROM FLOOR TO CEILING TO SUPPORT EQUIPMENT BRANCH FEEDERS, ETC.
 - 4 PROVIDE EMERGENCY LIGHTING POWER SUPPLY.
• PROVIDE AC BRANCH WIRING TO REMOTE EMERGENCY LUMINAIRES AS CIRCUITED.
• PROVIDE STRUT MOUNTING SHELF.
 - 5 PROVIDE BOX & WIRING FOR FUTURE AUDIBLE-VISUAL SIGNAL DEVICE.
 - 6 PROVIDE CLEARLY LABELED FIRE ALARM RELAYS & CONNECTIONS TO THE FOLLOWING:
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• MAINTAIN EXIT STAIR INTEGRITY. RATED BULKHEAD(S) PROVIDED BY DIVISION 01.
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• PROVIDE CONDUIT SUPPORTS & PERSONNEL PLATFORMS/CATWALKS AS REQUIRED FOR WORK IN THE ATTIC.
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• INSTALL DETECTOR ON SIDE OF SUPPLY DUCT.
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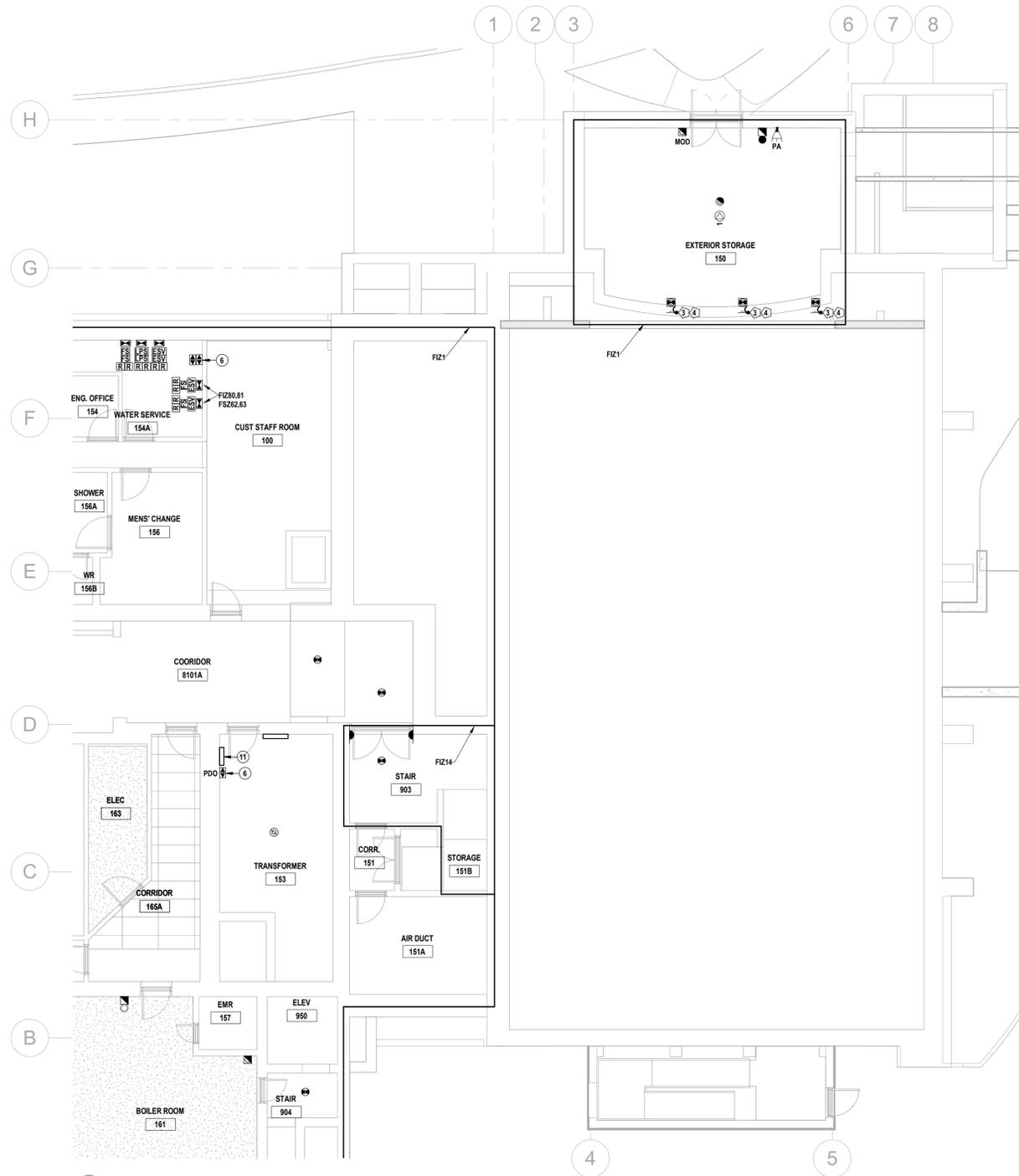
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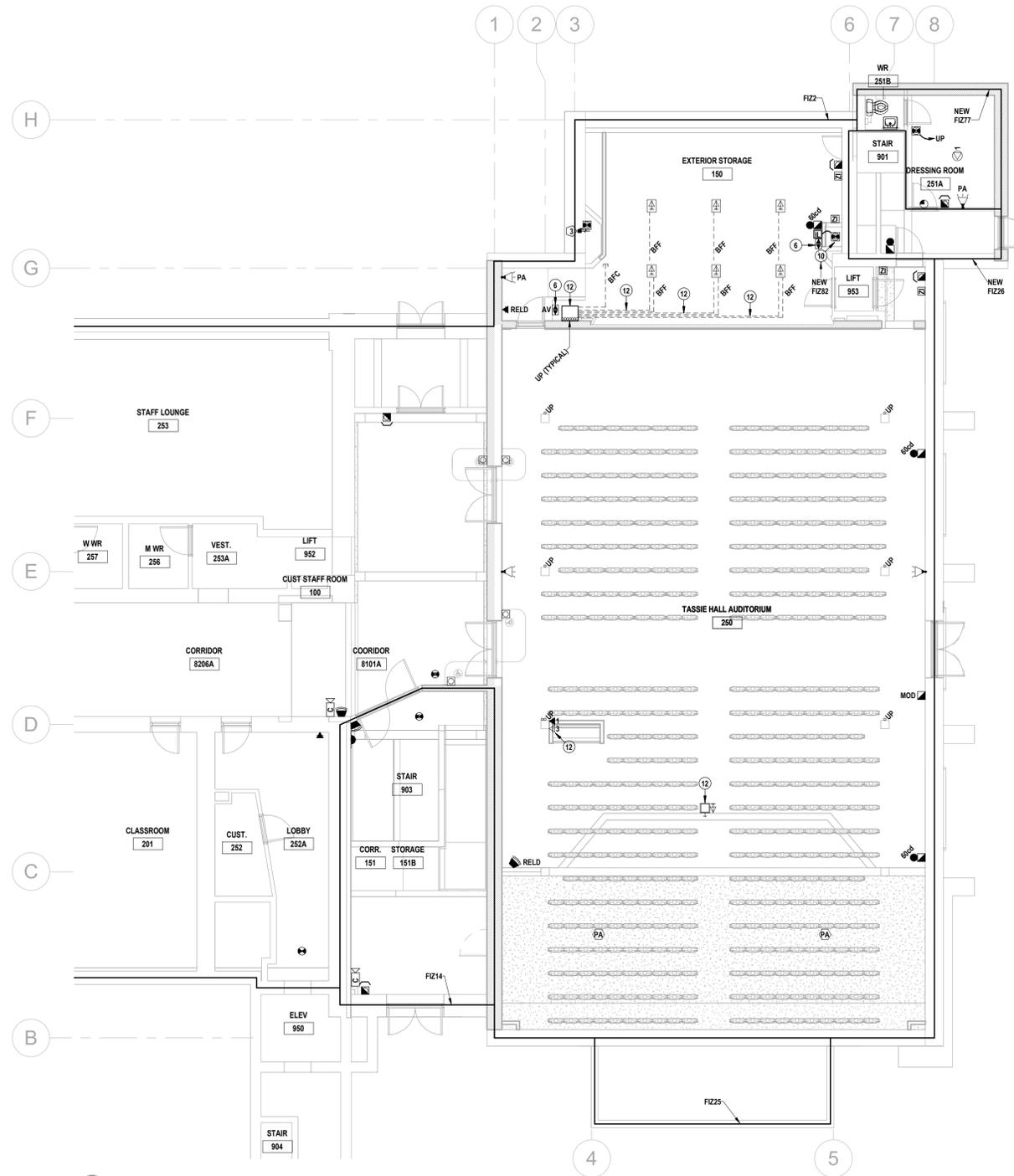
Project No.: 25067
Drawn By: A.T.
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REVISED LIGHTING PLANS

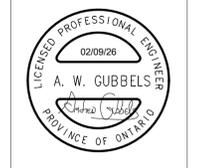




1 REVISED FIRST FLOOR COMMUNICATIONS & SECURITY PLAN
E4.1 SCALE: 1:100



2 REVISED SECOND FLOOR COMMUNICATIONS & SECURITY PLAN
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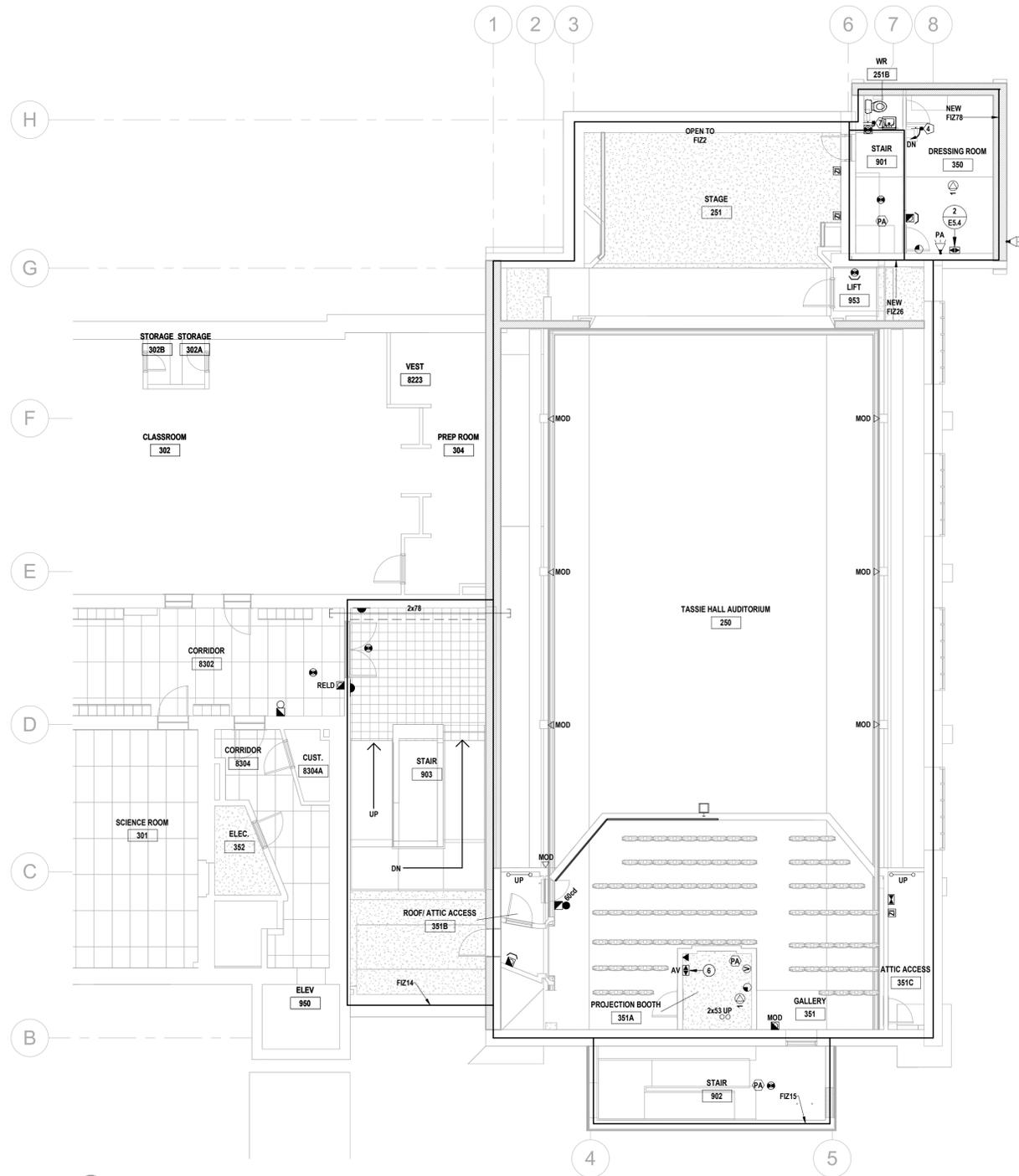
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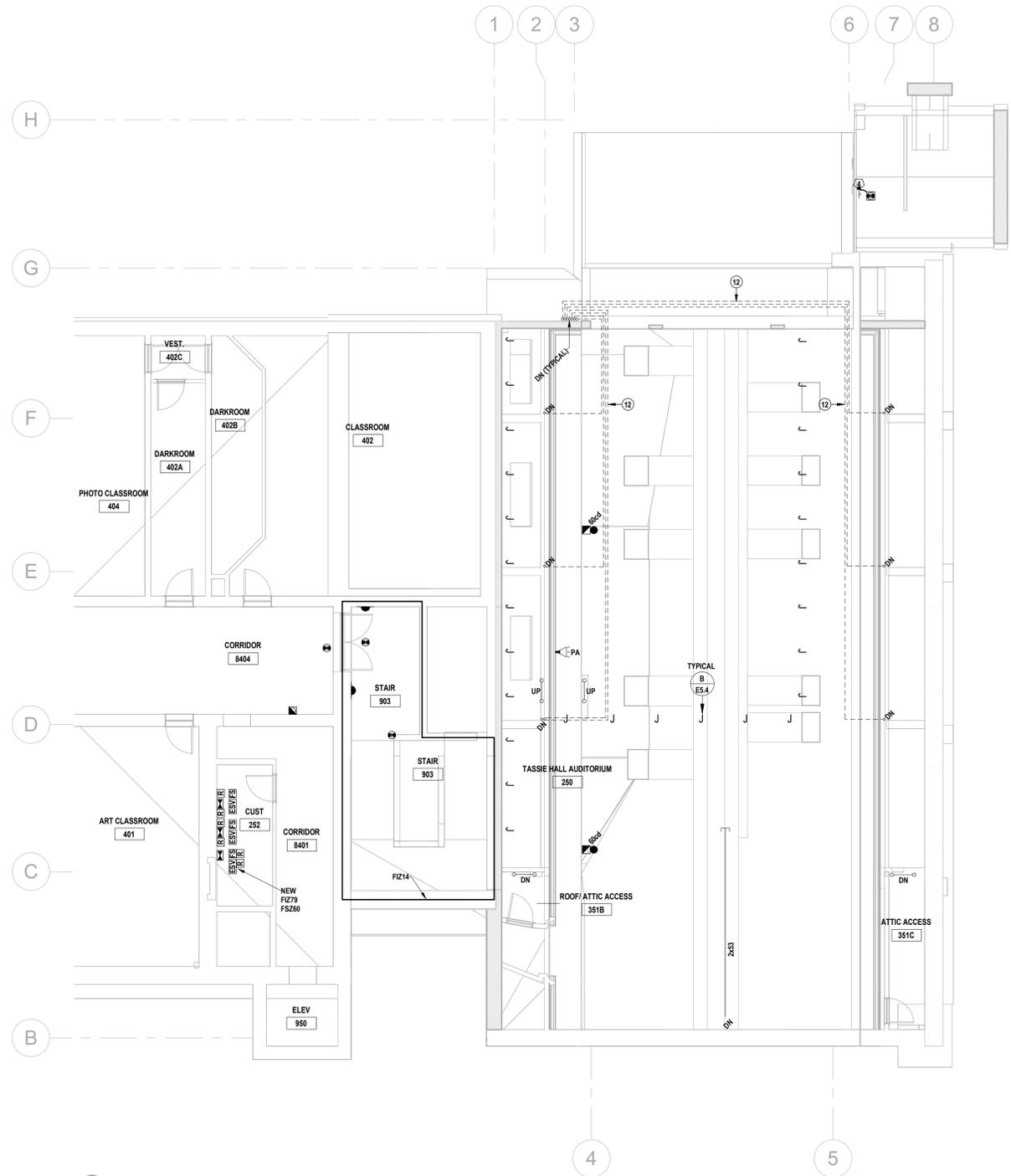
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E4.2 SCALE: 1:100



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E4.2 SCALE: 1:100



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Galt Collegiate Institute
200 Water Street North, Cambridge, ON
Tassie Hall Upgrade
REVISOR COMMUNICATIONS & SECURITY PLANS

Project No.:	25067	Checked By:	A.W.G.
Drawn By:	A.T.		

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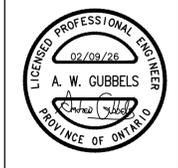
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E4.2



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 2025-11-07
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Galt Collegiate Institute
 200 WATER STREET NORTH, CAMBRIDGE, ON N1R 1H6
 TASSIE HALL UPGRADES
 PARTIAL SINGLE LINE DIAGRAM
 Project No.: 20067
 Drawn By: A.W.T.
 Checked By: A.W.G.

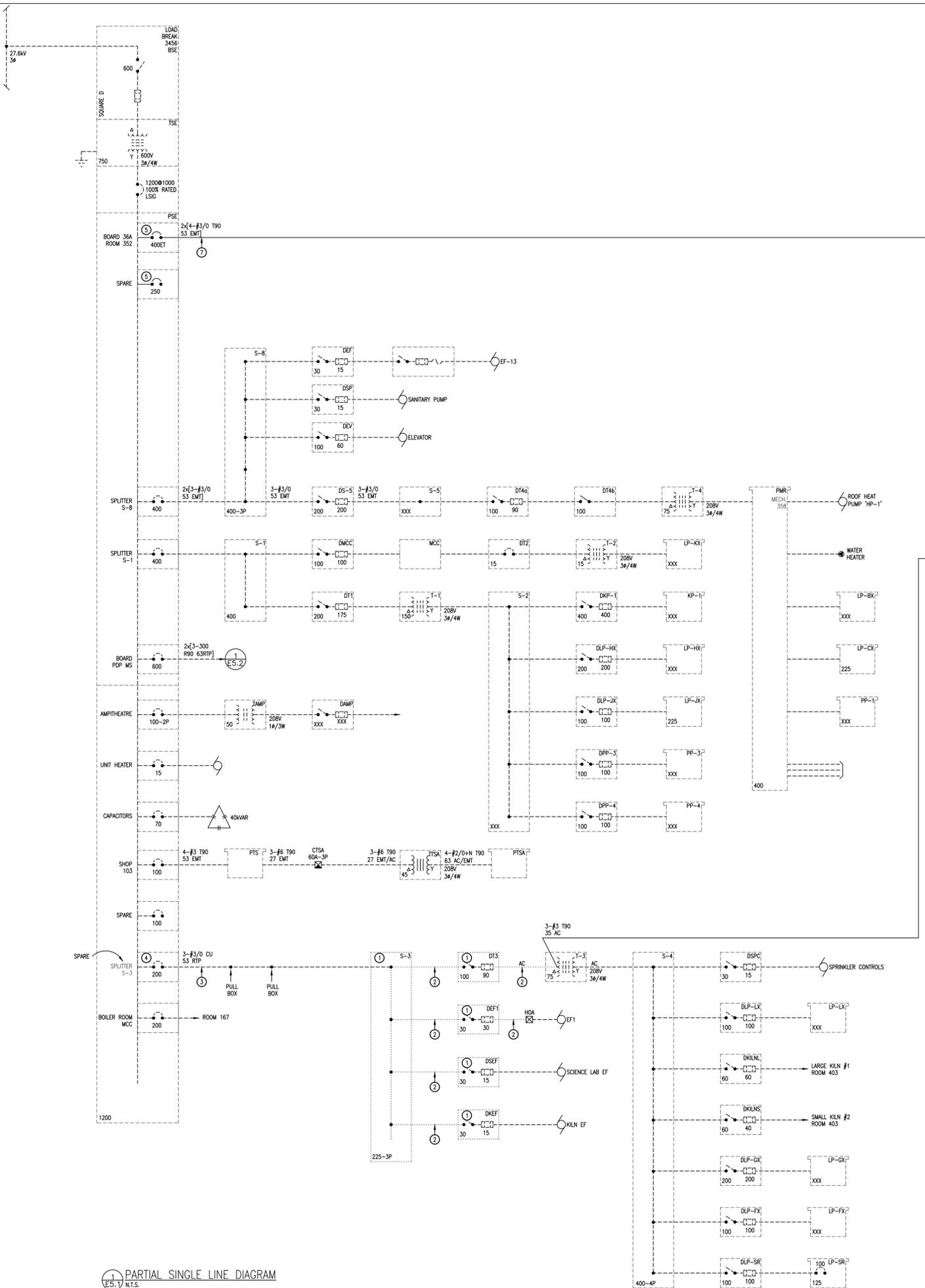
E5.1

NEW BOARD '36A' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	g	LOAD DESCRIPTION	P	A	NOTES	NO.
1		25			A		25			2
3	*5	25	3	ROOFTOP CONDENSING UNIT CU-5A TASSIE HALL	B	ROOFTOP CONDENSING UNIT CU-6A TASSIE HALL	3	25	*5	4
5		25			C		25			6
7		25			A		25			8
9	*5	25	3	ROOFTOP CONDENSING UNIT CU-5B TASSIE HALL	B	ROOFTOP CONDENSING UNIT CU-6B TASSIE HALL	3	25	*5	10
11		25			C		25			12
13		15			A		30			14
15	*4	15	3	SCIENCE LAB FAN	B	EXHAUST FAN EF1	3	30	*4	16
17		15			C		30			18
19		15			A		30			20
21	*4	15	3	KILN EXHAUST FAN	B		3	30	*6	22
23		15			C		30			24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37		90			A		50			38
39	*3	90	3	TRANSFORMER 3 TO SPLITTER 4	B		3	50	*6	40
41		90			C		50			42

- * NOTES:**
 1. BREAKER SHALL BE RED.
 2. BREAKER SHALL BE LOCKABLE.
 3. EXISTING LOAD FROM DELETED 'S-3'. PROVIDE BREAKER & BRANCH FEEDER.
 4. EXISTING LOAD FROM DELETED 'S-3'. PROVIDE BREAKER EXTEND & RECONNECT BRANCH FEEDER.
 5. NEW LOAD. PROVIDE BREAKER & BRANCH FEEDER.
 6. FUTURE LOAD. PROVIDE BREAKER.

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CUSTODIAL 352	400A	600/347V	3/4	EATON PRL4X	FLOOR	N/A



- #### SINGLE LINE NOTES
- DELETE EQUIPMENT.
 - DELETE FEEDERS (CONDUIT & CONDUCTORS).
 - DELETE CONDUCTORS, MAINTAIN & REWORK CONDUIT AS REQUIRED.
 - DELETE LABEL, PROVIDE NEW.
 - PROVIDE EQUIPMENT.
 - PROVIDE FEEDERS.
 - PROVIDE CONDUCTORS IN EXISTING & NEW CONDUITS.
 - REWORK FEEDERS TO MAINTAIN FREE AIR RATING. REFER TO SEPARATE PRICE.
 - DELETE FUSES, PROVIDE NEW.

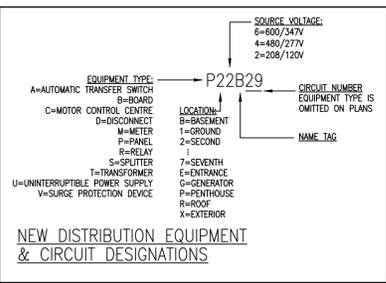
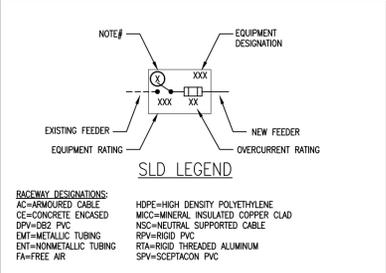
DESIGNATIONS
 EQUIPMENT & FEEDERS (CONDUCTOR & CONDUIT) WITHOUT DESIGNATION ARE EXISTING TO REMAIN.

EXISTING FEEDERS
 FEEDER & OVER CURRENT SIZES ARE BASED ON ARCHIVED INFORMATION. VERIFY ALL AFFECTED & CLEARLY INDICATE ON THE AS-BUILT DRAWINGS.

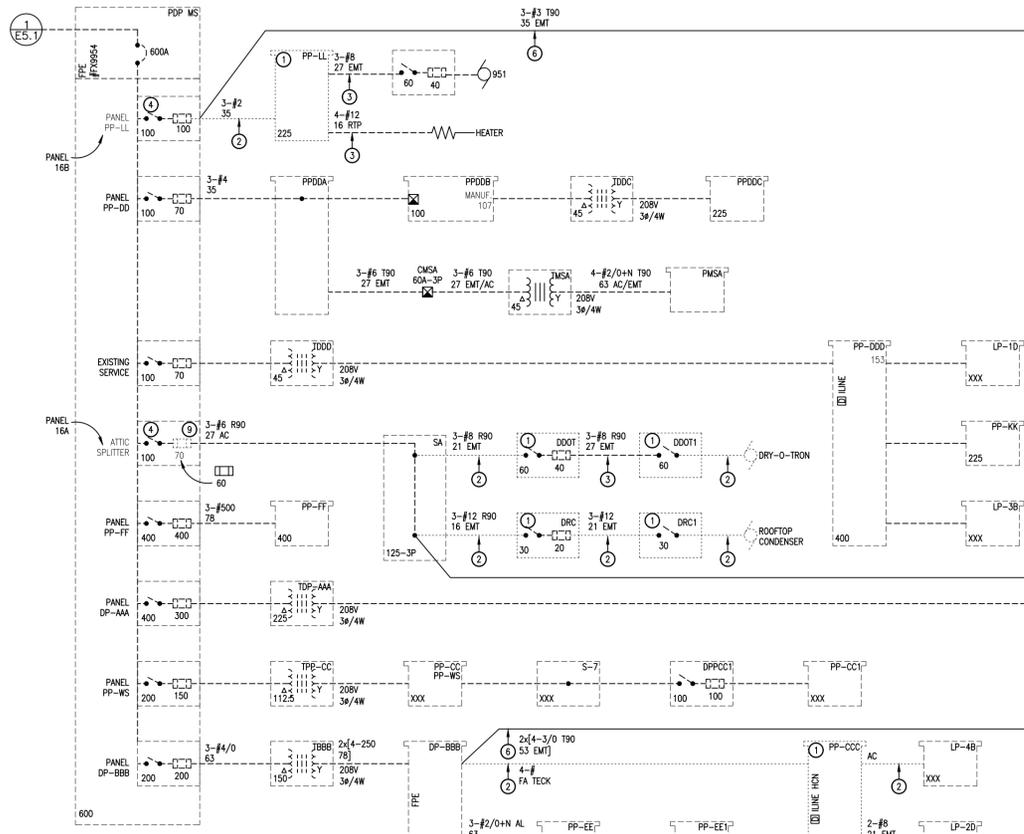
MEGGER TEST
 TEST ALL MODIFIED & NEW FEEDERS.

GROUNDING & BONDING
 PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY REQUIREMENTS.

INFORMATION UPDATE
 PROVIDE A LAMINATED HARD COPY OF THE SUBSEQUENT SINGLE LINE DIAGRAM & POST ON SITE. ELECTRONIC BASE PLANS WILL BE PROVIDED BY THE CONSULTANT.



E5.1 PARTIAL SINGLE LINE DIAGRAM
 N.T.S.



NEW PANEL '16A' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		20			A			20		2
3	*3	20	3	TASSIE HALL HVAC-5 STORAGE 150	B	TASSIE HALL HVAC-6 STORAGE 150	3	20	*3	4
5		20			C			20		6
7					A					8
9					B					10
11					C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25		30			A			30		26
27	*4	30	3		B			30	*4	28
29		30			C			30		30

* NOTES:
 1. NOT USED.
 2. FIELD CONFIRM AMPACITY.
 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
 4. FUTURE LOAD. PROVIDE BREAKER.

OPTIONS:
 TOP FEEDS DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
STORAGE ROOM 150	225A	600V	3/3	EATON PRL2X	SURFACE	N/A

NEW PANEL '16B' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		40			A			20		2
3	*1	40	3	ELEVATOR 951	B	HTG. LOADING DOCK 8206	3	20	*1,2	4
5		40			C			20		6
7					A					8
9					B					10
11					C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25		30			A			30		26
27	*4	30	3		B			30	*4	28
29		30			C			30		30

* NOTES:
 1. EXISTING LOAD FROM DELETED 'PP-LL'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
 2. FIELD CONFIRM AMPACITY.
 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
 4. FUTURE LOAD. PROVIDE BREAKER.

OPTIONS:
 TOP FEEDS DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
BOILER ROOM 161	225A	600V	3/3	EATON PRL2X	SURFACE	N/A

NEW PANEL '32B' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A			15	*1	2
3	*1	15	1		B			15	*1	4
5	*1	15	1		C			15	*1	6
7	*1	15	1		A			15	*1	8
9	*1	15	1		B			15	*1	10
11	*1	15	1		C			15	*1	12
13	*1	15	1		A			15	*1	14
15	*1	15	1		B			15	*1	16
17	*3	20	1	RECEPTACLES AV DESK	C	RECEPTACLE 250 PDU	1	20	*3	18
19	*3	20	1	RECEPTACLES AV RACK	A	RECEPTACLES AV STAGE	1	20	*3	20
21	*3	20	1	RECEPTACLES STAIR & CORRIDOR	B		1	20	*1	22
23	*1	15	1		C			20	*1	24
25	*1	15	1		A			15	*2	26
27	*2	15	1		B			15	*2	28
29	*2	15	1		C			15	*2	30
31	*2	15	1		A			15	*3	32
33	*3	15	2	RECIRCULATION PUMP P-12 ROOM 150	B	CONTROL BOX DCB-5A	2	15	*3	34
35		15			C	CONTROL BOX DCB-5B	2	15	*3	36
37	*3	15	2	RECIRCULATION PUMP P-13 ROOM 150	A	CONTROL BOX DCB-5B	2	15	*3	38
39		15			B	CONTROL BOX DCB-6A	2	15	*3	40
41	*3	15	1	MECHANICAL POWER SUPPLIES	C	CONTROL BOX DCB-6A	2	15	*3	42
43	*3	15	1	EXHAUST FAN EF-3 ATTIC	A	CONTROL BOX DCB-6B	2	15	*3	44
45	*3	15	1	UNIT HEATER UH-1 ROOM 150	B		2	15	*3	46
47	*3,5	15	1	SMOKE DAMPERS	C	BRANCH SELECTOR BOX BS-1	2	15	*3	48
49		15			A	BRANCH SELECTOR BOX BS-1	2	15	*3	50
51	*3	15	3	EXHAUST FAN EF-1	B	BRANCH SELECTOR BOX BS-2	2	15	*3	52
53		15			C		2	15		54
55		15			A	POWER DOOR OPERATOR	1	15	*2	56
57	*3	15	3	EXHAUST FAN EF-2	B	RECEPTACLES AV STAGE	1	20	*3	58
59		15			C	RECEPTACLES AV STAGE	1	20	*3	60
61	*3	15	1	UNIT HEATER UH-2 ROOM 150	A	RECEPTACLES AV STAGE	1	20	*3	62
63	*3	15	1	UNIT HEATER UH-3 ROOM 150	B	RECEPTACLES AV STAGE	1	20	*3	64
65	*3	15	1	RECIRCULATION PUMP P-15	C	RECEPTACLES AV STAGE	1	20	*3	66
67	*3	15	1	MECHANICAL POWER SUPPLIES	A	RECEPTACLES AV STAGE	1	15	*3	68
69	*3	15	1	CONTROL PANELS	B	RECEPTACLES AV STAGE	1	15	*3	70
71	*3	15	1	TRAP SEAL PRIMER & RECEPT. 150.	C	EXIT SIGNS	1	15	*3	72

* NOTES:
 1. EXISTING LOAD FROM DELETED 'LP-2B'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
 2. EXISTING LOAD FROM DELETED 'LP-5C'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
 4. FUTURE LOAD. PROVIDE BREAKER.
 5. BREAKER SHALL BE RED & LOCKABLE.

OPTIONS:
 TOP FEEDS DRIP SHIELD THROUGH FEED LUG

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
DRESSING ROOM 350	225A	208/120V	3/4	EATON PRL1X	SURFACE	N/A

NEW BOARD '12S' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		60			A			60		2
3	*3	60			B			60		4
5		100			C			200		6
7	*3	100	3	PANEL 12B ROOM 163	A	PANEL LP-4C ROOM 407	3	200	*4	8
9		100			B			200		10
11		100			C			200		12
13	*3	100	2	PANEL LP-4D ROOM 409	A	PANEL LP-1C CORRIDOR 8101B	2	100	*3	14
15		100			B					16
17		100			C					18
19		100			A			100		20
21	*3	100	3	PANEL 32C BOOTH 351A	B	PANEL 22A CORRIDOR 8206A	3	100	*3	22
23		100			C			100		24
25		60			A			100		26
27	*3	60	3	PANEL LP-2E ROOM 210	B	PANEL 42A CORRIDOR 8404	3	100	*3	28
29		60			C			100		30
31		100			A			100		32
33	*3	100	3	PANEL 32A CORRIDOR 8302	B	PANEL 12A CORRIDOR 8101A	3	100	*3	34
35		100			C			100		36
37		100			A			200		38
39	*6	100	3		B			200	*6	40
41		100			C			200		42
43					A					44
45					B					46
47					C					48
49					A					50
51					B					52
53					C					54
55		100			A			50		56
57	*6	100	3		B			50	*6	58
59		100			C			50		60

* NOTES:
 1. BREAKER SHALL BE RED.
 2. BREAKER SHALL BE LOCKABLE.
 3. EXISTING LOAD FROM DELETED 'PP-CCC'. PROVIDE BREAKER & BRANCH FEEDER.
 4. EXISTING LOAD FROM DELETED 'PP-CCC'. PROVIDE BREAKER & RECONNECT BRANCH FEEDER.
 5. NEW LOAD. PROVIDE BREAKER & BRANCH FEEDER.
 6. FUTURE LOAD. PROVIDE BREAKER.

OPTIONS:
 TOP FEEDS DRIP SHIELD 50X BREAKER SPACE 965 TUB WIDTH

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
ELECTRICAL 153	400A	208/120V	3/4	EATON PRL4X	FLOOR	N/A

E5.2 PARTIAL SINGLE LINE DIAGRAM N.T.S.

- #### SINGLE LINE NOTES
- ① DELETE EQUIPMENT.
 - ② DELETE FEEDERS (CONDUIT & CONDUCTORS).
 - ③ DELETE CONDUCTORS. MAINTAIN & REWORK CONDUIT AS REQUIRED.
 - ④ DELETE LABEL. PROVIDE NEW.
 - ⑤ PROVIDE EQUIPMENT.
 - ⑥ PROVIDE FEEDERS.
 - ⑦ PROVIDE CONDUCTORS IN EXISTING & NEW CONDUITS.
 - ⑧ REWORK FEEDERS TO MAINTAIN FREE AIR RATING. REFER TO SEPARATE PAPER.
 - ⑨ DELETE FUSES. PROVIDE NEW.

DESIGNATIONS
 EQUIPMENT & FEEDERS (CONDUCTOR & CONDUIT) WITHOUT DESIGNATION ARE EXISTING TO REMAIN.

EXISTING FEEDERS
 FEEDER & OVER CURRENT SIZES ARE BASED ON ARCHIVED INFORMATION. VERIFY ALL AFFECTED & CLEARLY INDICATE ON THE AS-BUILT DRAWINGS.

MEGGER TEST
 TEST ALL MODIFIED & NEW FEEDERS.

GROUNDING & BONDING
 PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY REQUIREMENTS.

INFORMATION UPDATE
 PROVIDE A LAMINATED, HARD COPY OF THE SUBSERVICE SINGLE LINE DIAGRAM & POST ON SITE. ELECTRONIC BASE PLANS WILL BE PROVIDED BY THE CONSULTANT.



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 2024-07-03
 ISSUED FOR COORDINATION
 2024-11-07
 ISSUED FOR COORDINATION
 2025-12-17
 ISSUED FOR BID
 2026-02-11



Galt Collegiate Institute

200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H6

TASSIE HALL UPGRADES

PARTIAL SINGLE LINE DIAGRAM

Project No.: 20067
 Drawn By: A.W.T.
 Checked By: A.W.G.

NEW PANEL '12A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*1	2
3	*1	15	1		B		1	15	*1	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1,4	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	15	*1	14
15	*1	15	1		B		1	15	*1	16
17	*1	15	1		C		1	15	*1	18
19	*1	15	1		A		1	15	*1	20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A		1	15	*4	32
33					B		1	15	*4	34
35					C		1	15	*4	36
37					A		1	20	*4	38
39					B		1	20	*4	40
41					C		1	20	*4	42

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-1A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. NOT USED.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.

OPTIONS:
TOP FEEDS

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CORRIDOR B101A	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A

NEW PANEL '12B' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*1	2
3	*1	15	1		B		1	15	*1	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	20	*1	14
15					B		1	30	*1	16
17	*1	20	3		C		1	15	*1	18
19					A		1	15	*1	20
21	*1	15	1		B		1	15	*1	22
23	*1	15	1		C		1	15	*1	24
25	*1	15	1		A		1	15	*1	26
27	*1	30	1		B		1	15	*1	28
29					C		1	15	*1	30
31	*1	30	3		A		1	15	*1	32
33					B		2	30	*1	34
35	*1	15	1		C		2	30		36
37	*1	15	1		A		2	15	*1,5	38
39	*1	15	1		B		2	15	*1,5	40
41	*1	30	1		C					42
43	*2,5	20	1		A					44
45					B					46
47					C					48
49					A		1	15	*4	50
51					B		1	15	*4	52
53					C		1	15	*4	54
55					A		1	20	*4	56
57					B		1	20	*4	58
59					C		1	20	*4	60

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-1B'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. EXISTING LOAD FROM DELETED 'LP-8'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.
5. FIELD CONFIRM AMPACITY.

OPTIONS:
TOP FEEDS
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
ELECTRICAL ROOM 163	225A	208/120V	3/4	EATON PRL1X	SURFACE	N/A

NEW PANEL '22A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*1	2
3	*1	15	1		B		1	15	*1	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	15	*1	14
15	*1	15	1		B					16
17	*1	15	1		C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A		1	15	*4	32
33					B		1	15	*4	34
35					C		1	15	*4	36
37					A		1	20	*4	38
39					B		1	20	*4	40
41					C		1	20	*4	42

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-2A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. NOT USED.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.

OPTIONS:
BOTTOM FEEDS

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CORRIDOR B206A	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A

NEW PANEL '32C' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*3	20	1	RECEPT. ROOF MAINTENANCE	A		1	30	*1	2
3	*3,5	15	1	HEAT TRACE	B		1	15	*1	4
5	*3,5	15	1	HEAT TRACE	C		1	15	*1	6
7	*3,5	15	1	HEAT TRACE	A		1	15	*1	8
9	*3	15	1	RECEPTACLES PROJ. BOOTH 351A	B		1	15	*1	10
11	*3	15	1	MECHANICAL POWER SUPPLIES	C		1	15	*1	12
13	*3	15	1	RECEPTACLE STAIR 902	A		1	15	*1	14
15	*3	15	1	CEILING FAN CF-1	B		1	15	*1	16
17	*3	15	1	CEILING FAN CF-2	C					18
19	*3	15	1	CEILING FAN CONTROL PANEL	A					20
21	*3	20	1	RECEPTACLE ATTIC	B					22
23	*3	20	1	RECEPTACLES AV 250	C					24
25	*3	20	1	RECEPTACLES AV 250	A					26
27	*3	20	1	RECEPTACLES AV 250	B					28
29	*3	20	1	RECEPTACLES AV 250	C					30
31	*3	20	1	RECEPTACLES AV 250	A					32
33	*3	20	1	RECEPTACLES AV 250	B					34
35	*3	15	1	RECEPTACLE PROJECTOR 250	C					36
37	*3	15	1	RECEPTACLES BALCONY	A					38
39					B					40
41					C					42
43					A					44
45					B					46
47					C					48
49					A		1	15	*4	50
51					B		1	15	*4	52
53					C		1	15	*4	54
55					A		1	20	*4	56
57					B		1	20	*4	58
59					C		1	20	*4	60

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-2C'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. NOT USED.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.
5. PROVIDE CLASS 'B' (30mA) GFCI BREAKER.

OPTIONS:
TOP FEEDS
DRIP SHIELD

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
AV BOOTH 351A (TASSE HALL)	225A	208/120V	3/4	EATON PRL1X	SURFACE	N/A

NEW PANEL '32A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*1	2
3	*1	15	1		B		1	15	*1	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	15	*1	14
15	*1	15	1		B		1	15	*1	16
17	*1	15	1		C		1	15	*1	18
19	*1	15	1		A		1	15	*1	20
21	*1	15	1		B		1	15	*1	22
23	*1	15	1		C		1	15	*1	24
25	*1	15	1		A					26
27					B					28
29					C					30
31					A		1	15	*4	32
33					B		1	15	*4	34
35					C		1	15	*4	36
37					A		1	20	*4	38
39					B		1	20	*4	40
41					C		1	20	*4	42

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-3A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. NOT USED.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.

OPTIONS:
BOTTOM FEEDS

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CORRIDOR B302	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A

NEW PANEL '42A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*1	2
3	*1	15	1		B		1	15	*1	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	15	*1	14
15	*1	15	1		B		1	15	*1	16
17	*1	20	1		C		1	15	*1	18
19	*1	15	1		A		1	15	*1	20
21					B		1	15	*1	22
23	*1	15	1		C		1	15	*1	24
25	*1	15	1		A					26
27	*1	15	1		B		2	15	*1	28
29					C		1	15	*1	30
31	*1	15	2		A		1	15	*1	32
33					B					34
35					C		1	15	*4	36
37					A		1	15	*4	38
39					B		1	20	*4	40
41					C		1	20	*4	42

* NOTES:
1. EXISTING LOAD FROM DELETED 'LP-4A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE.
2. NOT USED.
3. NEW LOAD, PROVIDE BREAKER & BRANCH WIRING.
4. FUTURE LOAD, PROVIDE BREAKER.

OPTIONS:
BOTTOM FEEDS

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CORRIDOR B404	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A



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