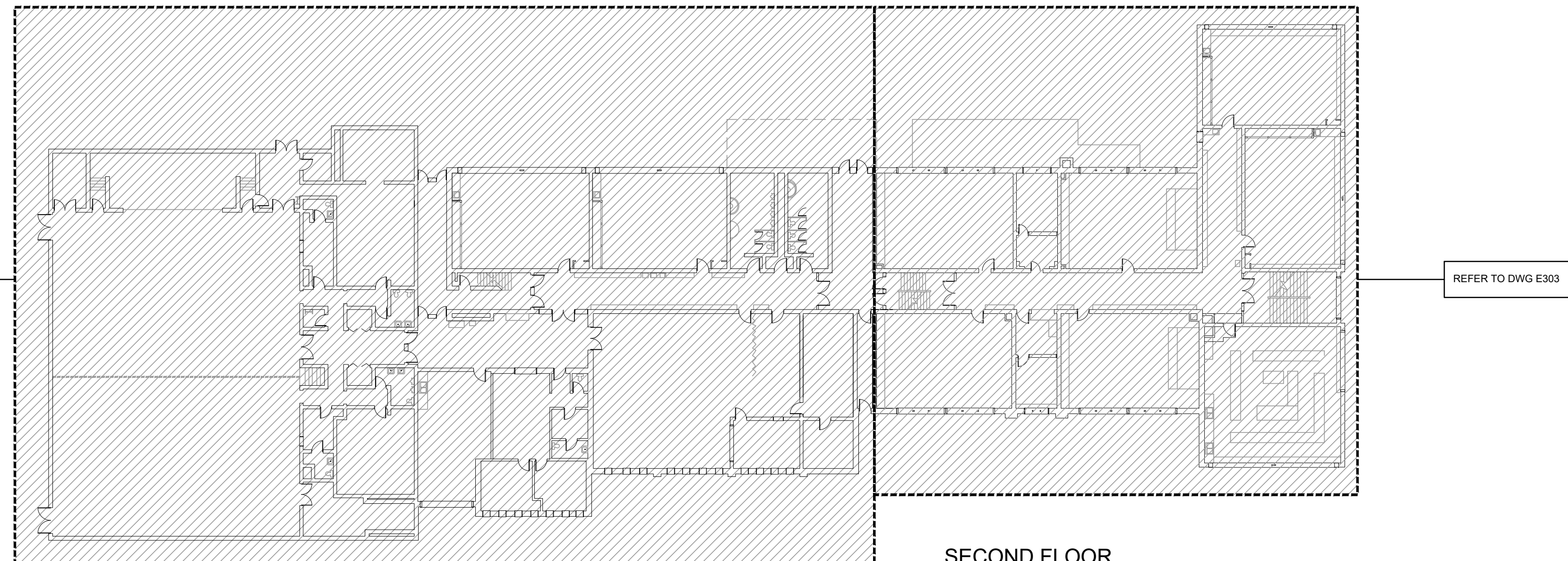
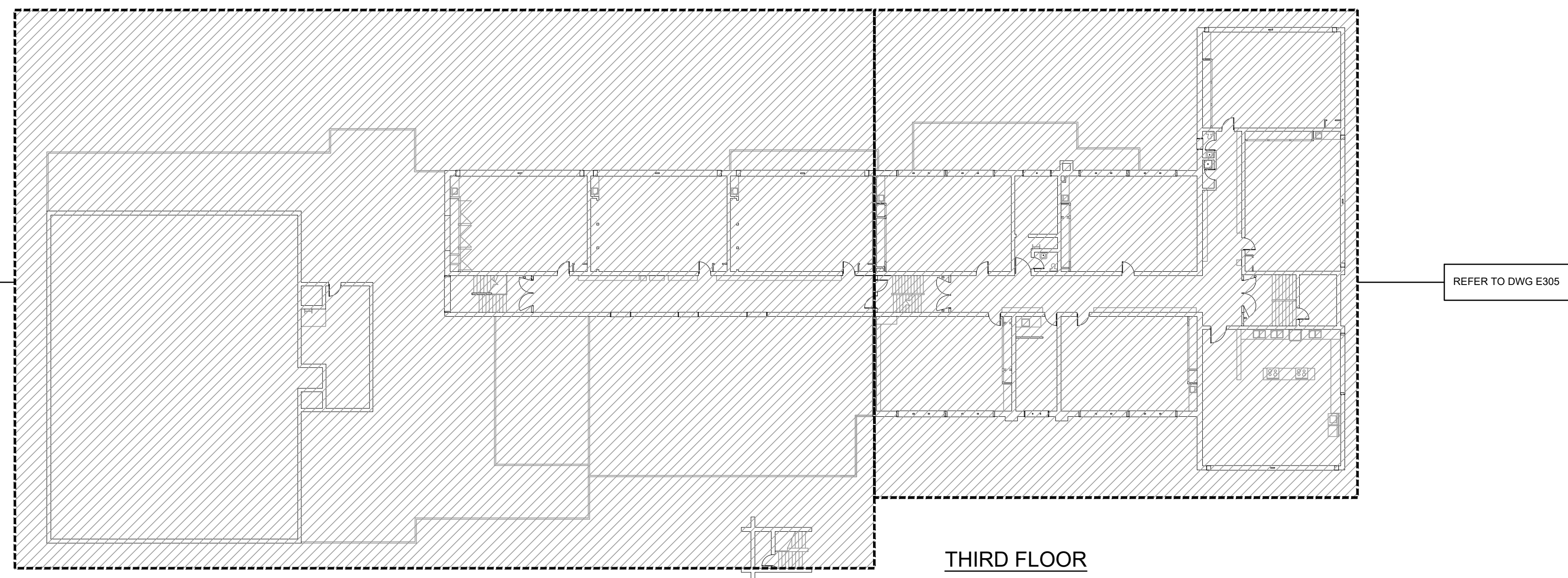


GROUND FLOOR



SECOND FLOOR



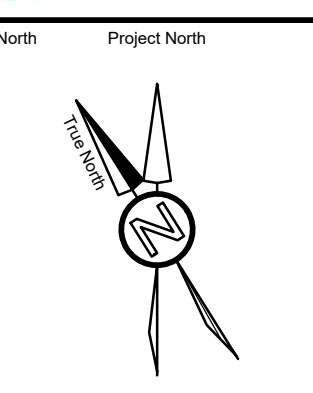
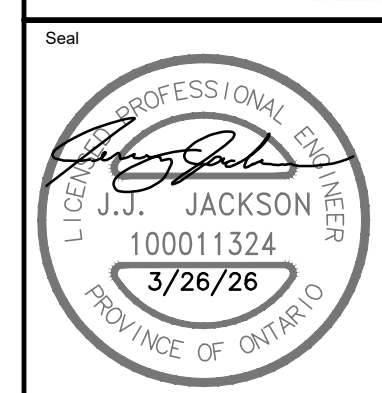
THIRD FLOOR

OVERALL PLANS
SCALE: NTS

| ELECTRICAL SYMBOLS | |
|----------------------------|---|
| LIGHTING | |
| | LIGHT FIXTURE TYPE AS INDICATED |
| | LIGHT FIXTURE (HATCHING DENOTES NIGHTLIGHT) |
| | CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED |
| | SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED) |
| | OCCUPANCY SENSOR (PASSIVE) |
| | CEILING MOUNTED MOTION SENSOR |
| | WALL MOUNTED MOTION SENSOR |
| POWER | |
| | PANEL AS INDICATED |
| GENERAL | |
| ER | INDICATES EXISTING ITEM TO REMAIN |
| D | INDICATES EXISTING ITEM TO BE DELETED |
| R | INDICATES EXISTING ITEM TO BE RELOCATED IN RELOCATED POSITION |
| WG | WIREGUARD |
| | NOTE INDICATOR |
| STANDARD CIRCUIT LABELING | |
| POWER PANEL LABEL | A-1-1 |
| CIRCUIT INDICATION | |
| SWITCH LEG (IF APPLICABLE) | |

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

| ISSUANCES | | | |
|-----------|------------------|-------------------|----|
| No | DATE YY MM DD | DESCRIPTION | BY |
| 1 | 26.02.13 | ISSUED FOR REVIEW | RV |
| A | 26.03.26 | ISSUED FOR TENDER | RV |



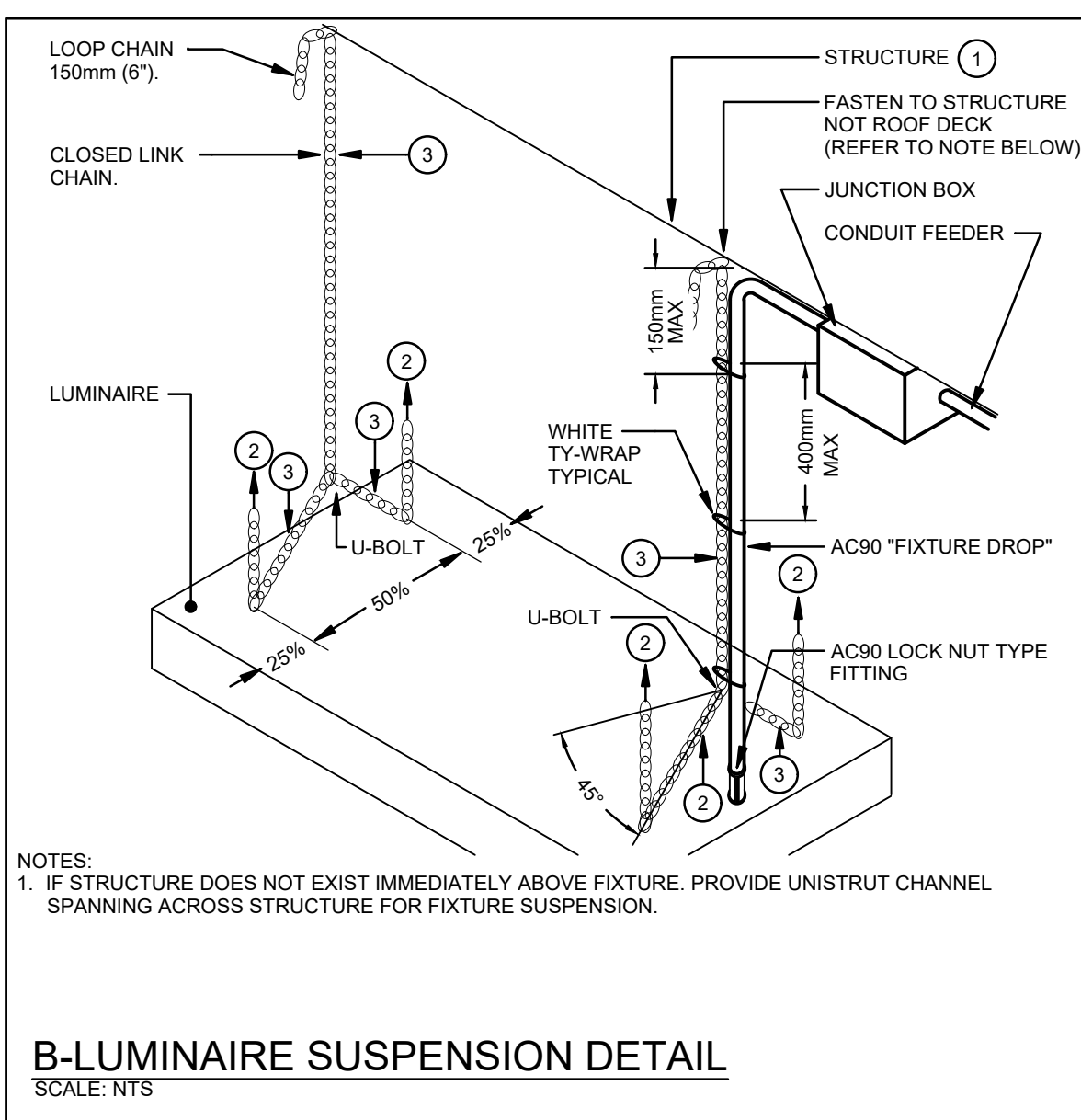
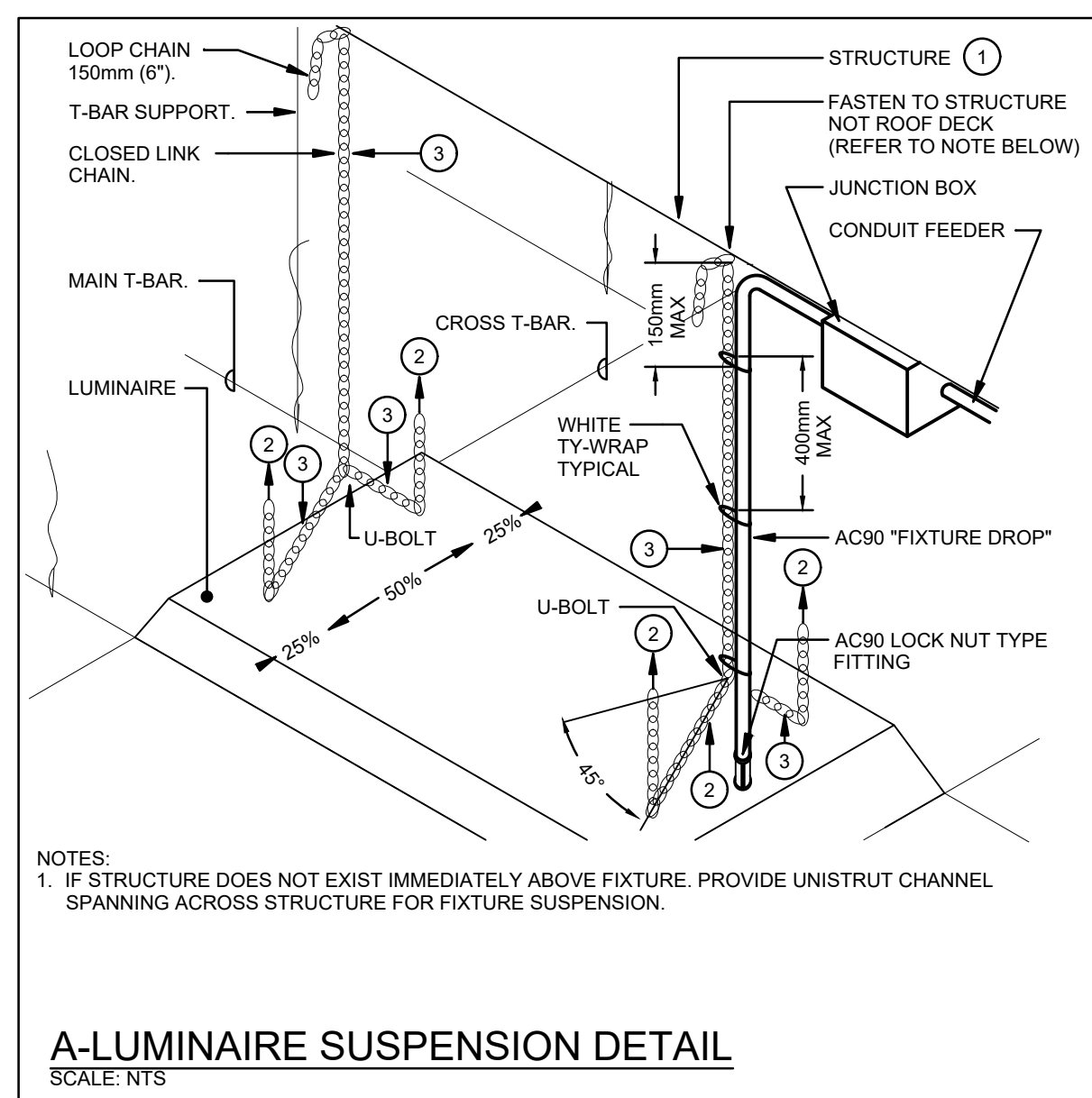
Project
**WRDSB SUNNYSIDE PS
INTERIOR & EXTERIOR
LIGHTING UPGRADES**

Address
**LEGEND AND OVERALL
PLANS**

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

| | | |
|-------------------|--------------------------|-------------------|
| Drawn by CP | Checked by RV | Approved by RV |
| Scale AS NOTED | Project Date OCT 2025 | Print Date |

Project No. **25355** Drawing No. **E101**



| Item | Description | Mounting | Lamping | Retrofit Work | Retrofit Type |
|------|----------------|----------------------------|----------|---|---------------|
| AA | 2X4 TROFFER | RECESSED | 3-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 2-T8 |
| AA1 | 2X4 TROFFER | RECESSED | 3-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 3-T8 |
| AA2 | 2X4 TROFFER | RECESSED | 4-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 4-T8 |
| AA3 | 2X4 WRAPAROUND | SURFACE | 3-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 3-T8 |
| BB | 4' FIXTURE | RECESSED SURFACE SUSPENDED | 3-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 2-T8 |
| BB1 | 4' FIXTURE | RECESSED SURFACE SUSPENDED | 1-32W T8 | REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED. | 1-T8 |

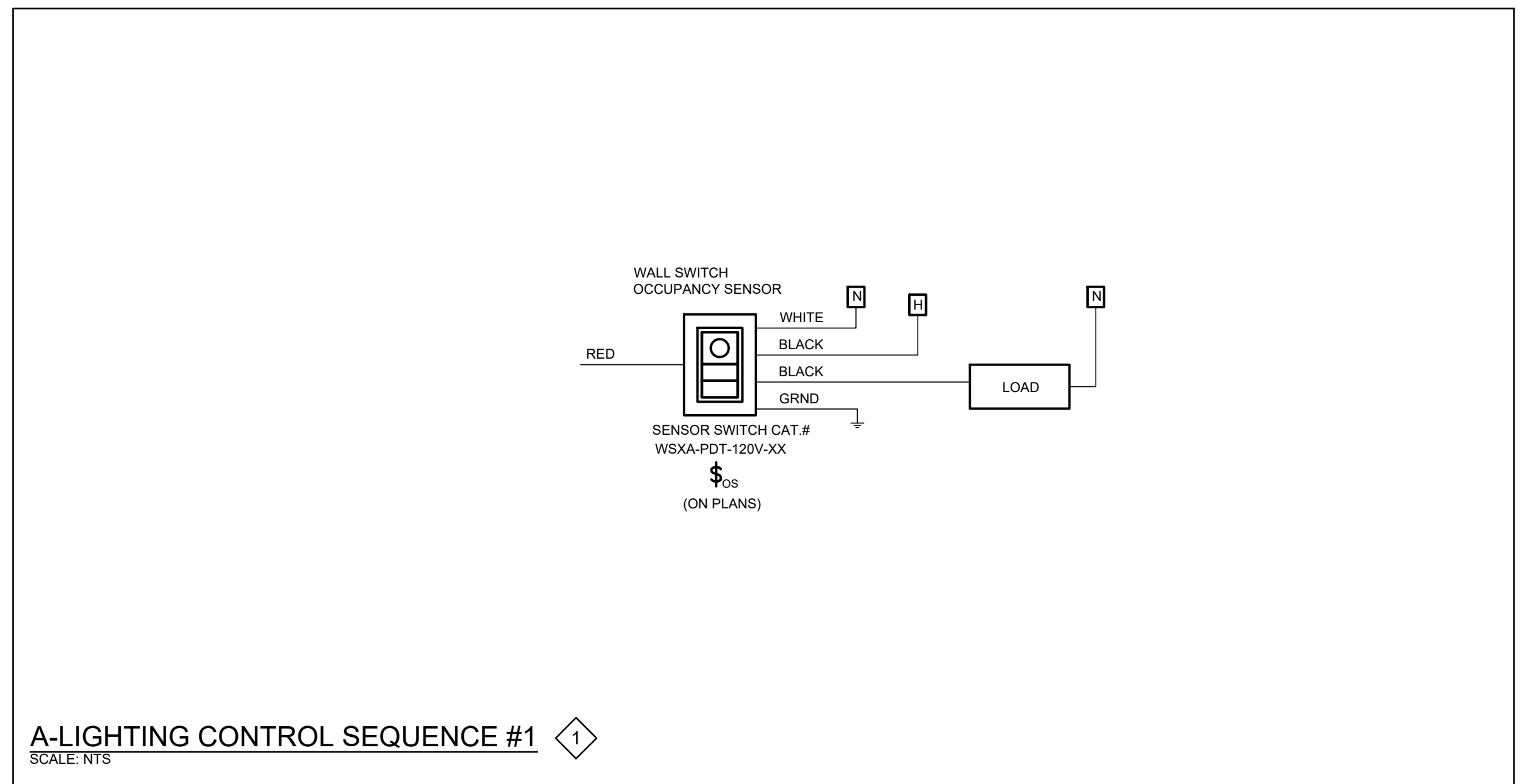
Notes:

- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- EQUAL MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.
- IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANTS ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.

| Item | Manufacturer/Catalog Number | Voltage | Lamp | | | | | Mounting | Listings | Description |
|------|--|---------|------|-------|-------------------|---------|-----|----------|----------|------------------------|
| | | | Type | Lumen | Color Temperature | Wattage | CRF | | | |
| T8 | T8 THROUGH CAT. #WV78P94-10-DW-03-DE (ARTIFINITE) MODEL CAT. #L78-1448-03-DE (EKO) MODEL CAT. #0720-LED16T8P4888-03-DE (E CURRENT) CAT. #LED16T8P4888-03-DE (XTC LIGHTING) CAT. #T8-48T-14W-3YF-DE | 120V | 1-T8 | 1000 | 4000K | 15.5W | 8 | EXISTING | NA | 1-T8 LED TYPE RETROFIT |

Notes:

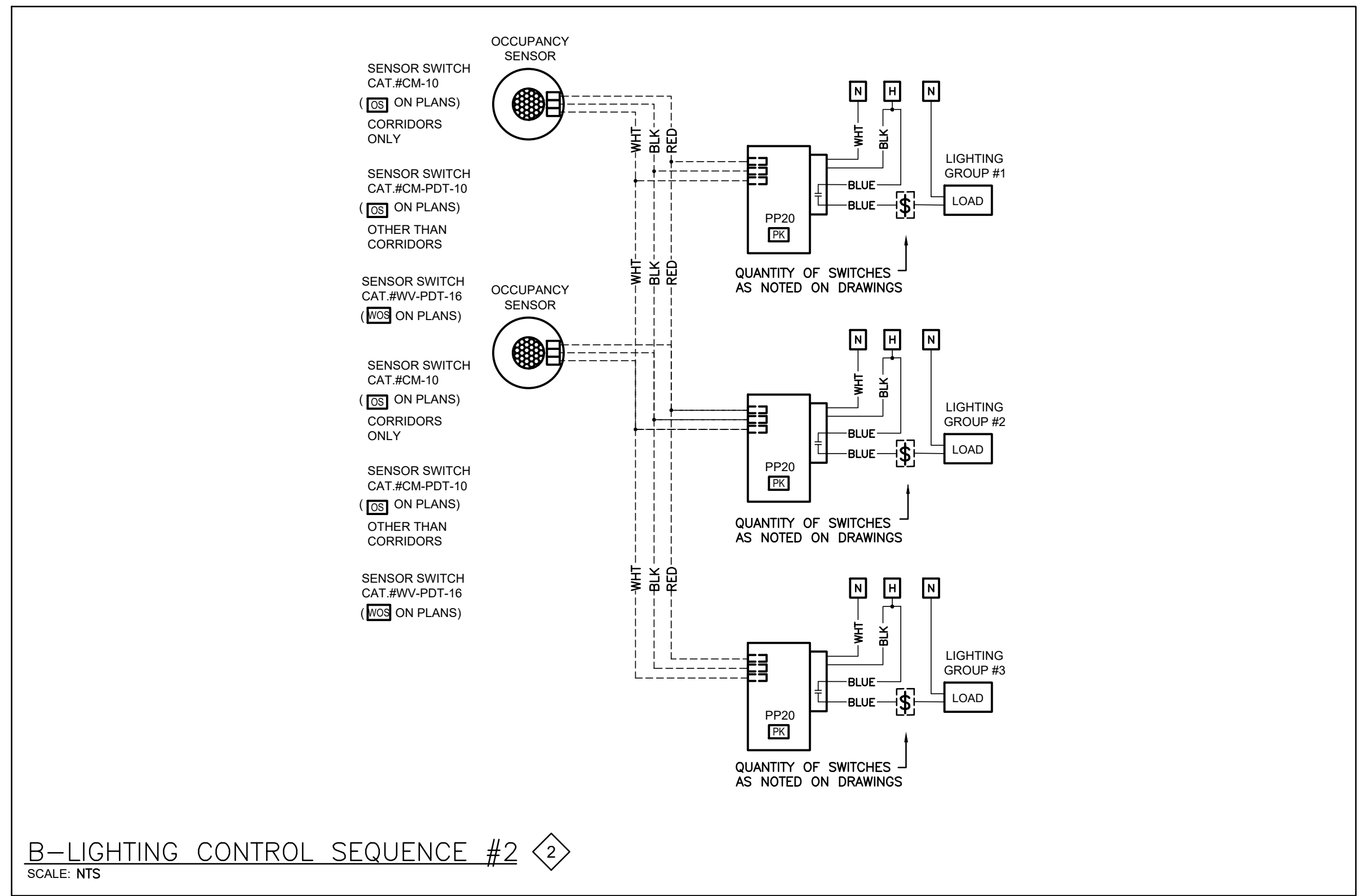
- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- EQUAL MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.
- IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANTS ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.



| Item | Manufacturer/Catalog Number | Voltage | Lamp | | | | | Mounting | Listings | Description |
|------|--|---------|------|-------|-------------------|---------|-----|----------|-----------------|--|
| | | | Type | Lumen | Color Temperature | Wattage | CRF | | | |
| A2 | LITHOMIA CAT. #C25-L48-AL03-MVOLT-08W-030-CW-WC05 COOPER CAT. #458K-LW-120V-C03-CD1-CW-WG-0305N-4T-6 | 120V | LED | 3000 | 3000K | 22W | 8 | SURFACE | DLX ENERGY STAR | 4' (1200mm) SURFACE LED STRIP LIGHT CW SELECTABLE LUMENS, SWITCHABLE WHITE DIFFUSOR ACRYLIC LENS, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER AND WIRE GUARD SET FIXTURE TO 'LOW' |

Notes:

- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUAL MANUFACTURERS ARE NOT BEING CONSIDERED FOR THIS TENDER UNLESS SPECIFICALLY IDENTIFIED ON SCHEDULE FOR NOTED APPROVED EQUALS TO BE CONSIDERED APPROVED. MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED EQUAL BY EMAIL WITH CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE.
- WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURERS AVAILABLE STANDARD FINISHES.
- ALL FIXTURES OPERATING ON 240 VOLTS MUST BE PROVIDED WITH AN INTEGRAL DISCONNECTING MEANS CONFORMING TO RULE #30-306(1) OF THE ELECTRICAL SAFETY CODE.
- IT IS THE RESPONSIBILITY OF THIS ELECTRICAL CONTRACTOR TO IDENTIFY TO THE ELECTRICAL CONSULTANTS ATTENTION ANY DISCREPANCIES BETWEEN THE FIXTURE CATALOG NUMBER AND FIXTURE DESCRIPTION, AND OR VOLTAGE, OUTPUT, OR MOUNTING, PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT THE TIME OF SHOP DRAWING REVIEW. FOR THE PURPOSES OF BIDDING, INCLUDE FOR A FIXTURE MATCHING THE VOLTAGE, MOUNTING, LOCATION AND NOTATIONS SHOWN ON LIGHTING DESIGN DRAWINGS.



| Item | Manufacturer/Catalog Number | Voltage | Lamp | | | | | Mounting | Listings | Description |
|------|---|---------|------|-------|-------------------|---------|-----|----------|--------------|---|
| | | | Type | Lumen | Color Temperature | Wattage | CRF | | | |
| 21 | LITHOMIA CAT. #W052-LED-P3-30K-80CRI-V8-MVOLT-P8W-C0B0 MAGRAM-EDISON CAT. # G40 SERIES GENLYTE CAT. #GE10FORM SERIES | 120V | LED | 5750 | 3000K | 40W | 8 | WALL | IP66, EX/BLU | COMPLETE CUT OFF TRIANGULAR LED WALLPACK FIXTURE CW TYPE 2 WITH SPILL CONTROL DISTRIBUTION FULL CUT OFF DARK SKY COMPLIANCE (DALI AND DARK BRONZE FINISH. MOUNT FIXTURE AT HEIGHT AS INDICATED ON PLANS. NOTE: FIXTURE SHALL BE PROVIDED WITH SURFACE MOUNTING BOX TO SUIT RETROFIT INSTALLATION. |
| 22 | FC LIGHTING CAT. #FC080-10-WM-LVW-030-20-8RE-WW-ET SPEC LIGHT CAT. #C0W81PC-20-30K-ND-EX-90-WM-CC | 120V | LED | 2000 | 3000K | 10W | 8 | WALL | WET LOC. | HALL MOUNTED CYLINDER FIXTURE CW 90 DEGREE WALL WASH DISTRIBUTION. FIXTURE TO BE COMPLETE WITH DARK BRONZE FINISH. |
| 23 | COOPER CAT. #092-09-030-AS3M-03-00-UNV-S-AD-STD-4FT-CW-LM-KIT-ANG-MNT01 INSIGHT LIGHTING CAT. #PER SERIES SSL LIGHTING CAT. #L2VET SERIES | 120V | LED | 1170 | 3000K | 10W | 8 | SURFACE | WET LOC. | LINEAR 4' WALL GRAZE FIXTURE MOUNTED FROM EXTENDED IF ARMS. PROVIDE JUMPER CABLES, REMOTE DRIVERS, MOUNTING HARDWARE, AND ALL OTHER ACCESSORIES TO SUIT LINEAR BOX. PROVIDE 1/2" MOUNTING ARM TO SUIT EXTENSION FROM HALL. ENTIRE FIXTURE ASSEMBLY TO BE COMPLETE WITH BLACK FINISH. |
| 24 | LUMINAIRE CAT. #FVY1212-MVOLT-03W-30K-MVOLT-CLP-WHT-WL | 120V | LED | 5002 | 3000K | 41W | 8 | SURFACE | WET LOC. | 12' (3648mm) SURFACE MOUNT VANDAL RESISTANT LED FIXTURE CW DIMMING TO 10% CLEAR PRISMATIC LENS, WHITE FINISH AND WET LOCATION LISTING. |
| 25 | LITHOMIA CAT. #W052-LED-P3-30K-80CRI-RPT-MVOLT-P8W-CW-BCE-D0B0 MAGRAM-EDISON CAT. # G40 SERIES GENLYTE CAT. #GE10FORM SERIES | 120V | LED | 1034 | 3000K | 71W | 8 | WALL | IP66 | COMPLETE CUT OFF TRIANGULAR LED WALLPACK FIXTURE CW TYPE 4 FORWARD THROW FULL CUT OFF DARK SKY COMPLIANCE (DALI AND DARK BRONZE FINISH. MOUNT FIXTURE AT HEIGHT AS INDICATED ON PLANS. FIXTURE SHALL BE PROVIDED WITH SURFACE MOUNTING BOX TO SUIT RETROFIT INSTALLATION. |
| 26 | LITHOMIA CAT. #W052-LED-P3-30K-80CRI-R3-MVOLT-P8W-CW-BCE-D0B0 MAGRAM-EDISON CAT. # G40 SERIES GENLYTE CAT. #GE10FORM SERIES | 120V | LED | 1091 | 3000K | 100W | 8 | WALL | IP66 | COMPLETE CUT OFF TRIANGULAR LED WALLPACK FIXTURE CW TYPE 7 WIDE THROW FULL CUT OFF DARK SKY COMPLIANCE (DALI AND DARK BRONZE FINISH. MOUNT FIXTURE AT HEIGHT AS INDICATED ON PLANS. FIXTURE SHALL BE PROVIDED WITH SURFACE MOUNTING BOX TO SUIT RETROFIT INSTALLATION. |

Notes:

- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUALS SHALL BE APPROVED BY CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE. PROPOSED MANUFACTURERS SHALL INCLUDE PHOTOMETRIC STUDY RESULTS WITHIN SUBMISSION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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|----|---------------|-------------------|----|
| 1 | 26.02.13 | ISSUED FOR REVIEW | RV |
| A | 26.03.26 | ISSUED FOR TENDER | RV |



Project: **WRDSB SUNNYSIDE PS INTERIOR & EXTERIOR LIGHTING UPGRADES**
 ADDRESS:
 Sheet Title: **LIGHTING DETAILS AND SCHEDULES**

DEI Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC
 55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-725-3555
 Website: deiassociates.ca

| | | |
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| Drawn by CP | Checked by RV | Approved by RV |
| Scale AS NOTED | Project Date OCT 2025 | Print Date |
| Project No. 25355 | Drawing No. E102 | |

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

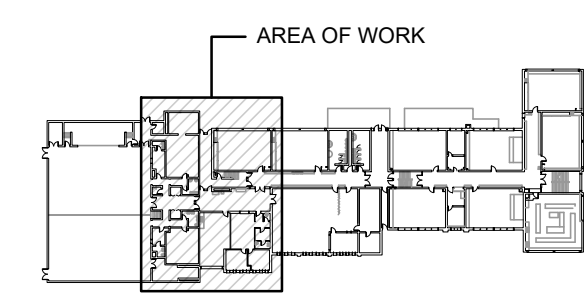
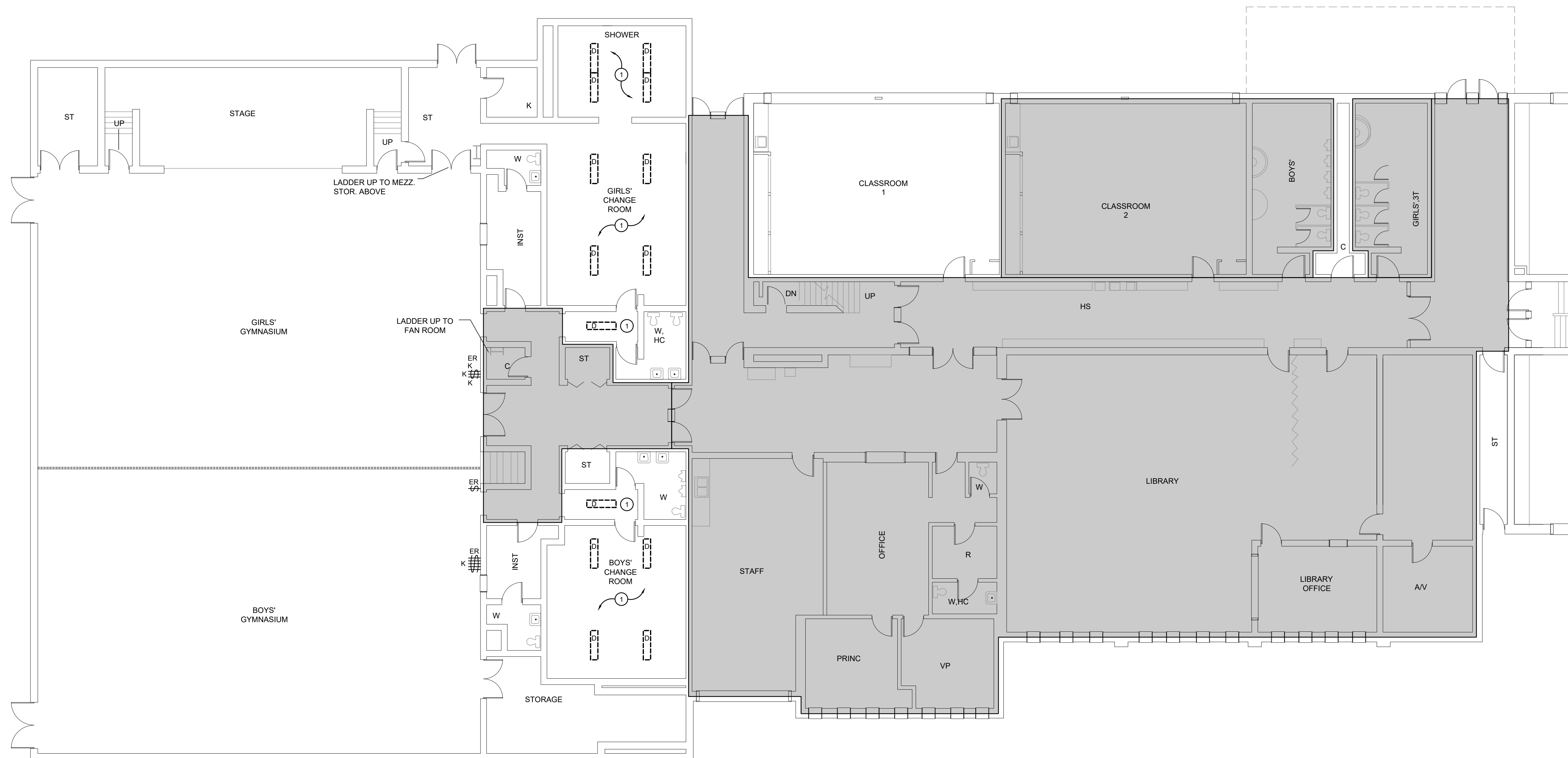
SPECIFIC DEMOLITION NOTES

- 1 EXISTING LIGHTING FIXTURES TO BE REMOVED. MAINTAIN OR EXTEND EXISTING LIGHTING WIRING AND CIRCUIT WITHIN THIS AREA AS NOTED. REFER TO RENOVATION DRAWING FOR MORE INFORMATION. EXISTING CONTROLS TO REMAIN.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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| 1 | 26.02.13 | ISSUED FOR REVIEW | RV |
| A | 26.04.01 | ISSUED FOR TENDER | RV |



Key Plan



| | | |
|----------|-----------|-------------------|
| Seal | North | Project North |
|----------|-----------|-------------------|

Project
**WRDSB SUNNYSIDE PS
INTERIOR & EXTERIOR
LIGHTING UPGRADES**

Address
**GROUND FLOOR - LIGHTING
DEMOLITION PARTIAL PLAN**

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

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| Drawn by CP | Checked by RV | Approved by RV |
| Scale AS NOTED | Project Date OCT 2025 | Print Date |

Project No.
25355

Drawing No.
E201

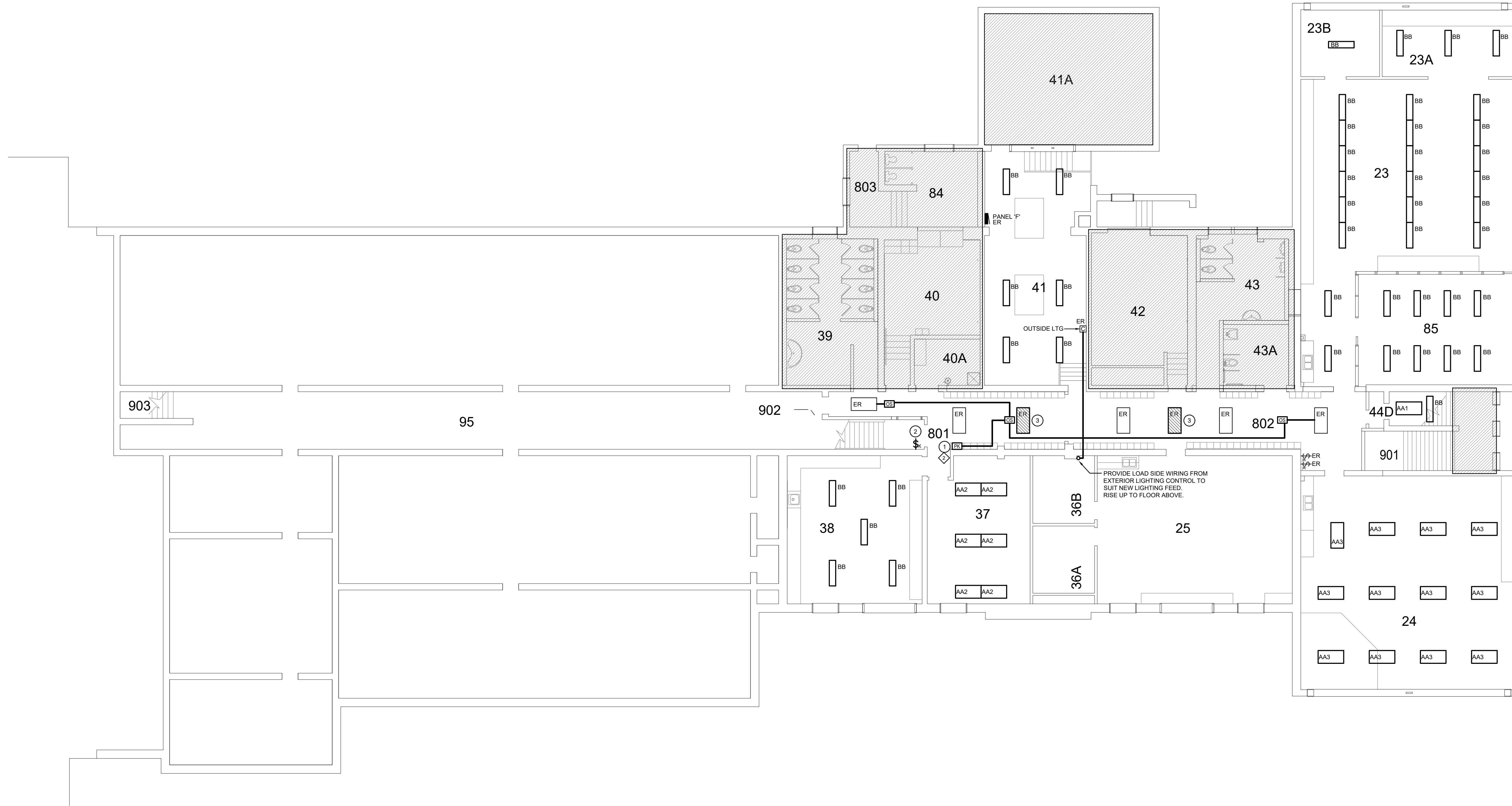
GROUND FLOOR - LIGHTING DEMOLITION PARTIAL PLAN
SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC RENOVATION NOTES

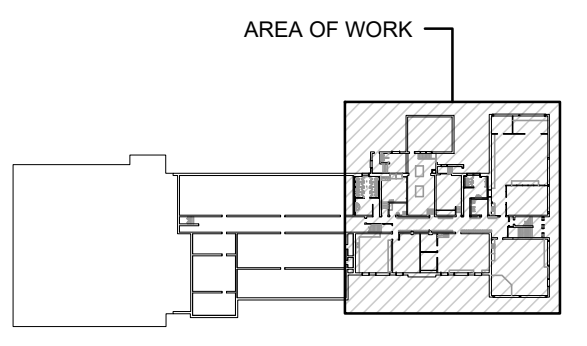
1. PROVIDE POWER PACK ABOVE ACCESSIBLE CEILING SPACE. REWORK/PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
2. REMOVE EXISTING SWITCH. PROVIDE NEW KEYED-SWITCH. PROVIDE NEW SS COVERPLATE TO SUIT.
3. REWORK EXISTING WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
 The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
 The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
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| A | 26.04.01 | ISSUED FOR TENDER | RV |



Key Plan



Seal of the Professional Engineer J.J. JACKSON, License No. 100011324, Province of Ontario, dated 4/1/26. Includes a North arrow pointing towards the top right of the sheet.

Project: **WRDSB SUNNYSIDE PS INTERIOR & EXTERIOR LIGHTING UPGRADES**

Sheet Title: **BASEMENT - LIGHTING RENOVATION PLAN**

DEI Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC
 55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-725-3555
 Website: deiassociates.ca

| | | |
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| Drawn by CP | Checked by RV | Approved by RV |
| Scale AS NOTED | Project Date OCT 2025 | Print Date |

Project No. **25355** Drawing No. **E301**

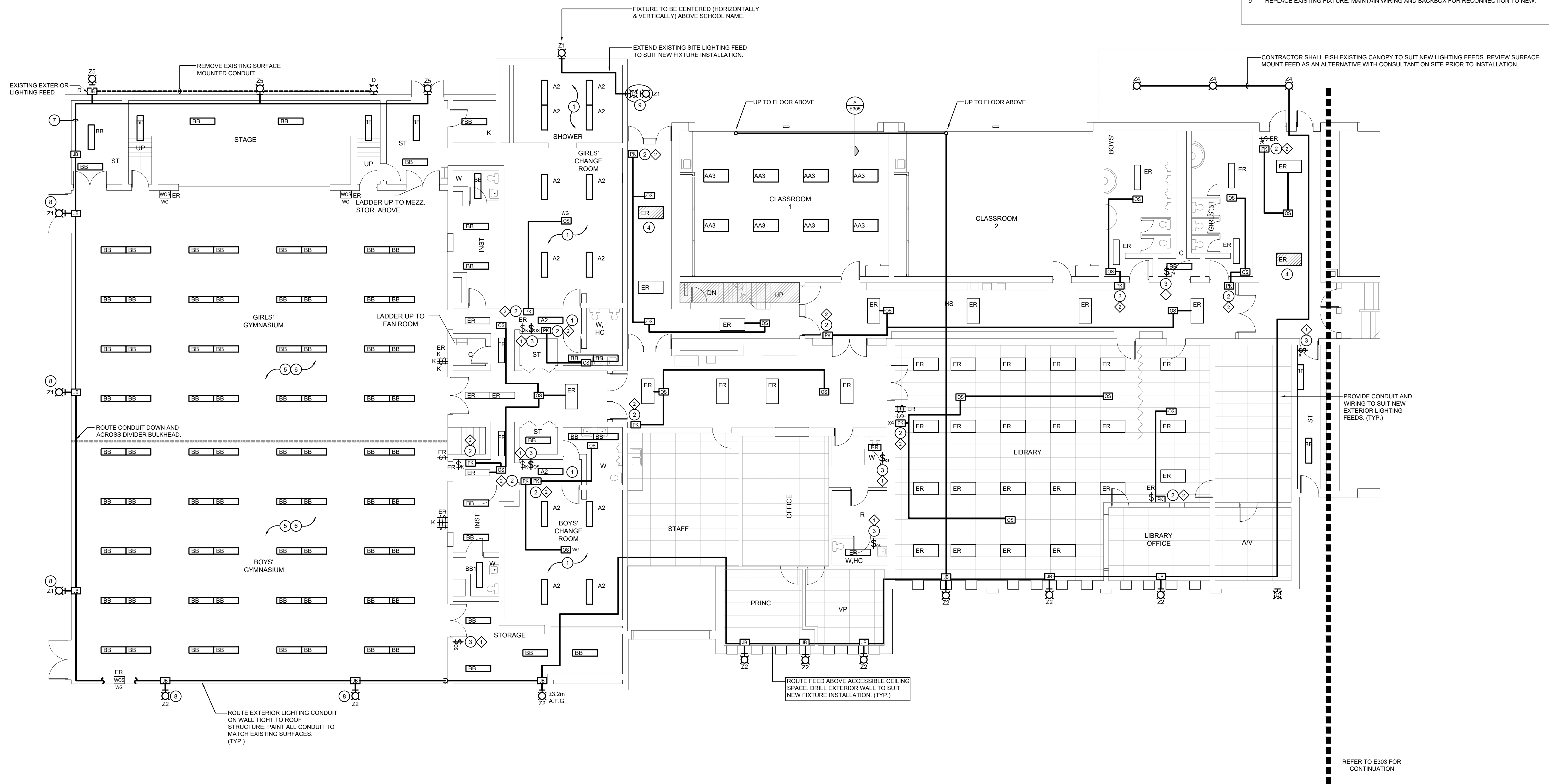
BASEMENT - LIGHTING RENOVATION PLAN
 SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

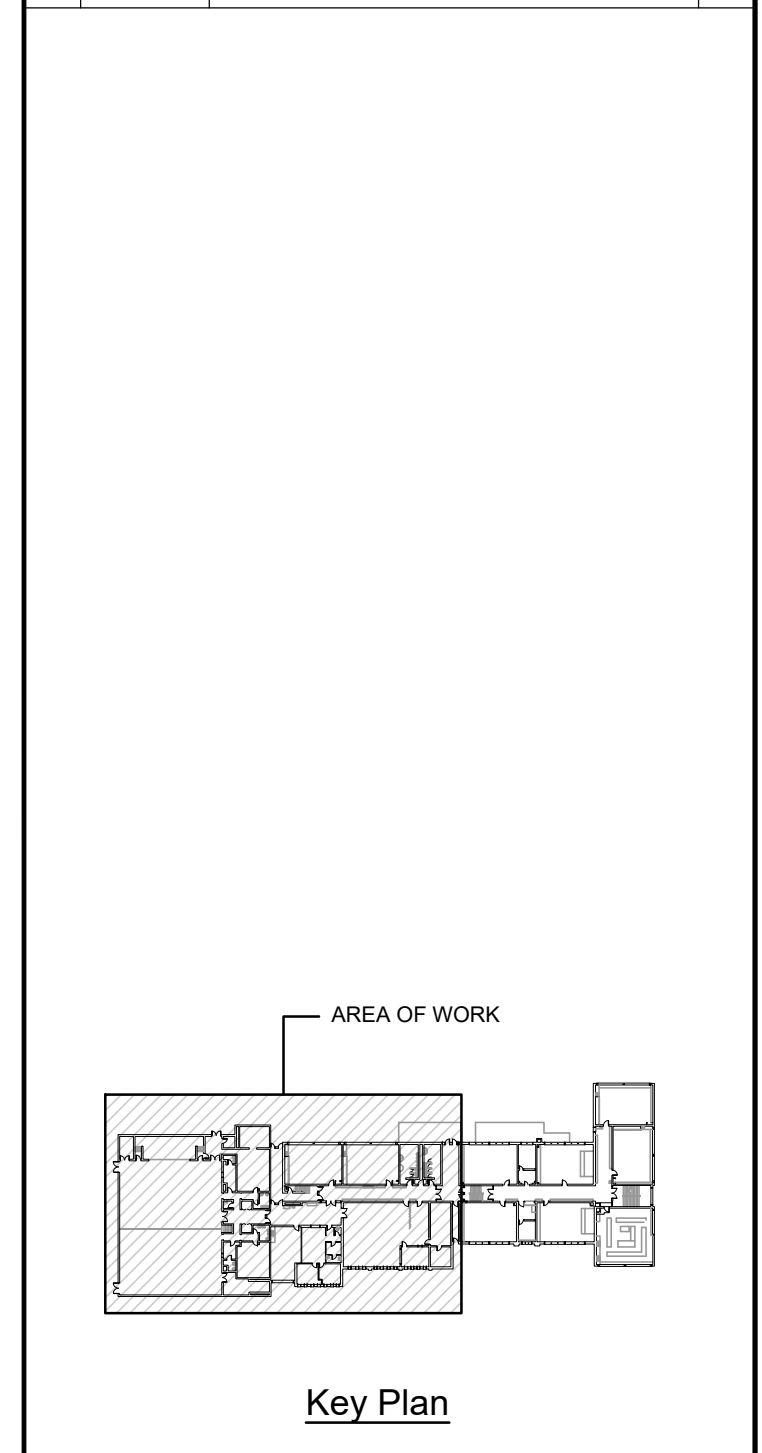
SPECIFIC RENOVATION NOTES

- 1 RECONNECT NEW LIGHTING TO EXISTING WIRING MADE AVAILABLE DURING DEMOLITION.
- 2 PROVIDE POWER PACK ABOVE ACCESSIBLE CEILING SPACE. REWORK/PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 3 REMOVE EXISTING SWITCH. PROVIDE NEW OCCUPANCY SENSOR. PROVIDE NEW SS COVERPLATE TO SUIT. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 4 REWORK EXISTING WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.
- 5 IN THIS ROOM WHERE CONDUITS RUN DOWN, ALONG OR AROUND WALLS THEY MUST BE PAINTED WITH TWO COATS OF PAINT TO MATCH EXISTING SURFACES.
- 6 IN THIS ROOM WHEN ELEVATING DEVICES ARE USED TO COMPLETE THE NOTED WORK THE EXISTING FLOORS MUST BE PROPERLY PROTECTED WITH PLYWOOD SHEETING. ANY MARKED OR DAMAGED FLOORS WILL BE REPAIRED TO THE SATISFACTION OF THE BOARD REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 7 EXTEND EXISTING EXTERIOR LIGHTING CIRCUIT TO SUIT THE ADDITION OF NEW EXTERIOR LIGHTING FIXTURES.
- 8 MATCH EXISTING PARKING LOT FLOOD LIGHT ELEVATION FOR NEW FIXTURES.
- 9 REPLACE EXISTING FIXTURE. MAINTAIN WIRING AND BACKBOX FOR RECONNECTION TO NEW.



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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| A | 26.04.01 | ISSUED FOR TENDER | RV |



WATERLOO REGION
DISTRICT SCHOOL BOARD

PROFESSIONAL ENGINEER
J.J. JACKSON
100011324
4/1/26
PROVINCE OF ONTARIO

North
Project North

Project
**WRDSB SUNNYSIDE PS
INTERIOR & EXTERIOR
LIGHTING UPGRADES**

Address
Sheet Title
**GROUND FLOOR - LIGHTING
RENOVATION PLAN PART 'A'**

DEI
Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

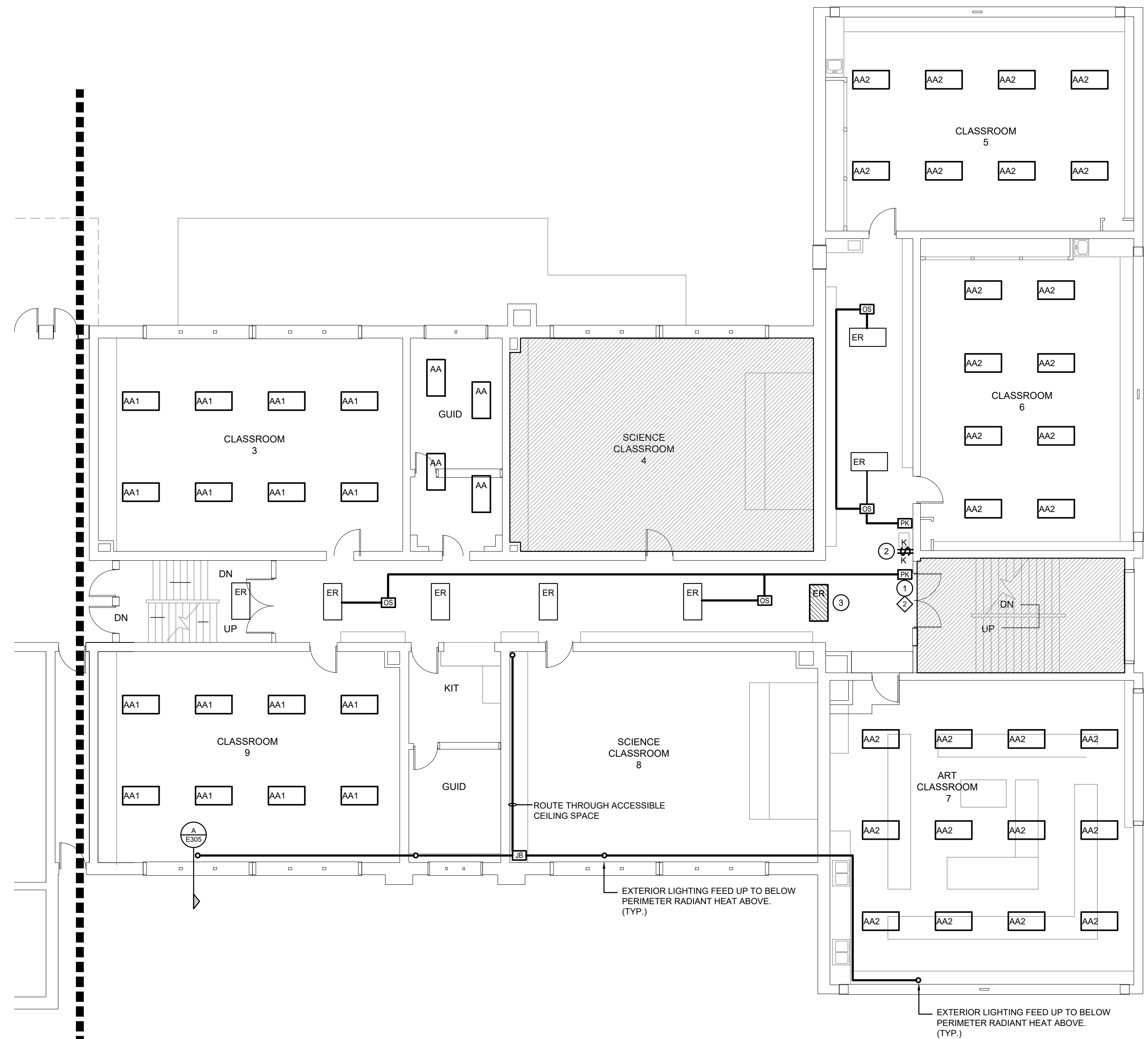
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Project No.
25355

Drawing No.
E302

GROUND FLOOR - LIGHTING RENOVATION PART 'A' PLAN
SCALE: 1:100

REFER TO E303 FOR CONTINUATION



REFER TO E302 FOR CONTINUATION

GROUND FLOOR - LIGHTING RENOVATION PART 'B' PLAN

SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

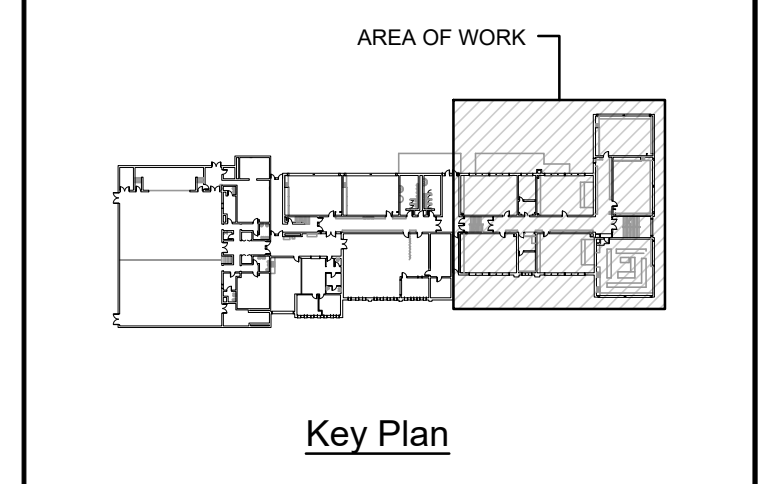
SPECIFIC RENOVATION NOTES

- 1 PROVIDE POWER PACK ABOVE ACCESSIBLE CEILING SPACE. REWORK/PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 2 REMOVE EXISTING SWITCH. PROVIDE NEW KEYED-SWITCH. PROVIDE NEW SS COVERPLATE TO SUIT.
- 3 REWORK EXISTING WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.
- 4 FEED TO NEW FIXTURE THROUGH ACCESSIBLE CEILING SPACE. ABOVE FINISHED CEILING DRILL EXTERIOR WALL AT HIGH LEVEL TO SUIT NEW FEED.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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| A | 26.04.01 | ISSUED FOR TENDER | RV |



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Project
WRDSB SUNNYSIDE PS INTERIOR & EXTERIOR LIGHTING UPGRADES

Address
GROUND FLOOR - LIGHTING RENOVATION PLAN PART 'B'

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

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Project No. **25355** Drawing No. **E303**

GENERAL RENOVATION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

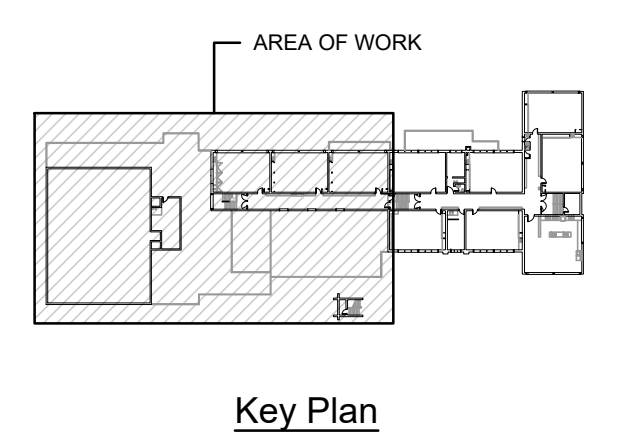
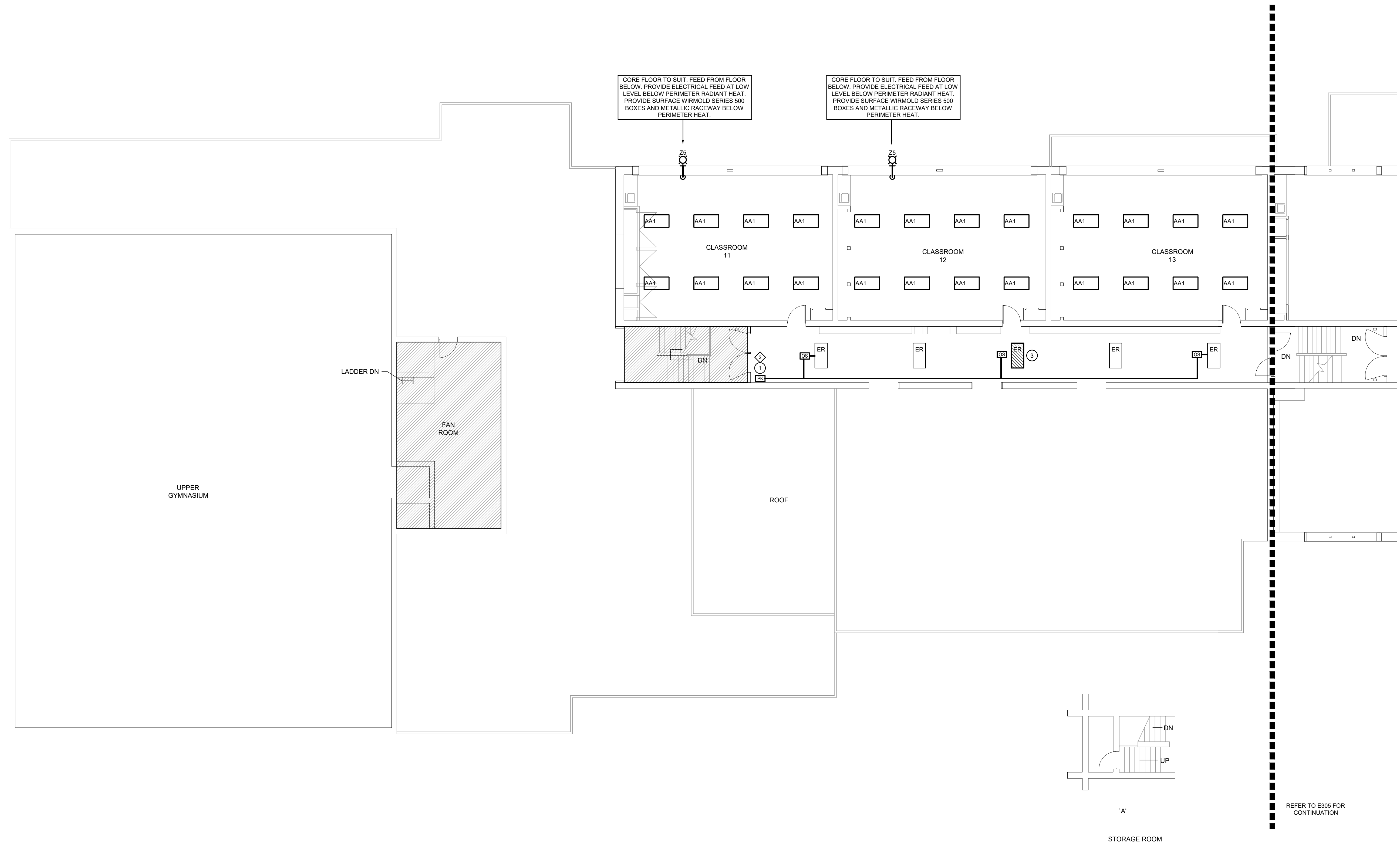
SPECIFIC RENOVATION NOTES

- 1 PROVIDE POWER PACK ABOVE ACCESSIBLE CEILING SPACE. REWORK/PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 2 NOT IN USE
- 3 REWORK EXISTING WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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Key Plan



Professional Engineer Seal for J.J. JACKSON, License No. 100011324, expires 4/1/26. Includes a north arrow pointing towards the top right of the sheet.

Project: **WRDSB SUNNYSIDE PS INTERIOR & EXTERIOR LIGHTING UPGRADES**

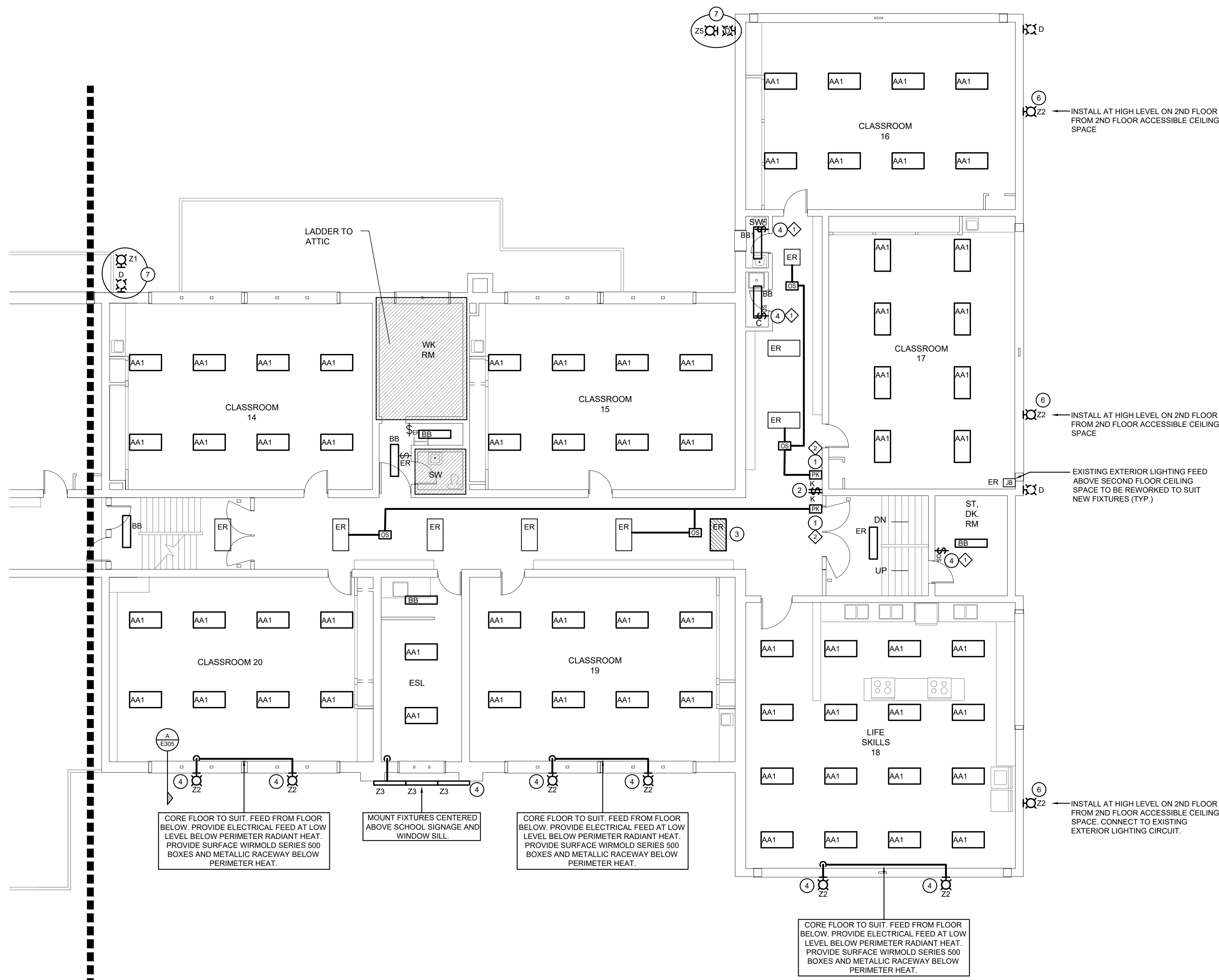
Sheet Title: **SECOND FLOOR - LIGHTING RENOVATION PLAN PART 'A'**

DEI Consulting Engineers
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Project No. **25355** Drawing No. **E304**

SECOND FLOOR - LIGHTING RENOVATION PART 'A' PLAN
SCALE: 1:100

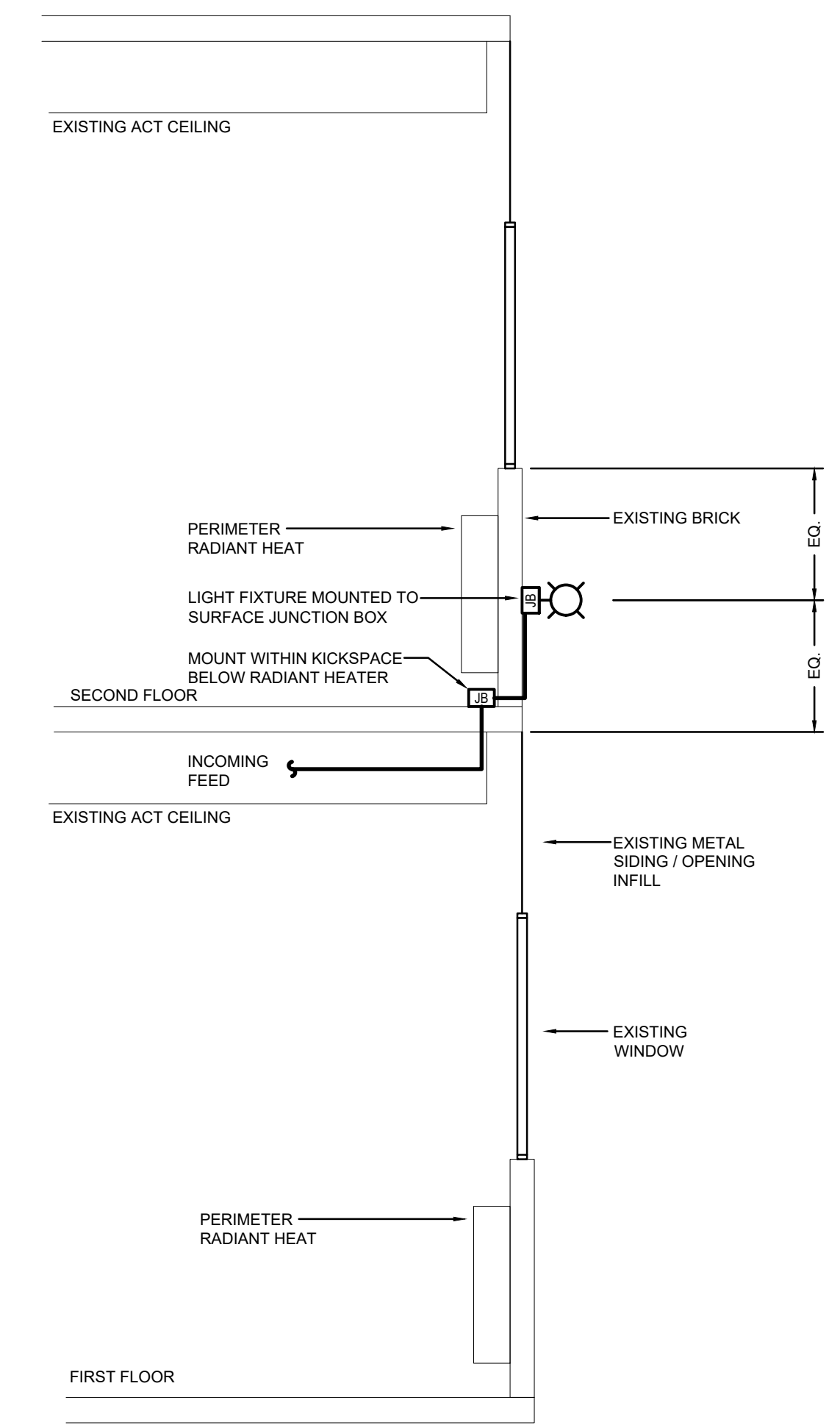


GENERAL RENOVATION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC RENOVATION NOTES

- 1 PROVIDE POWER PACK ABOVE ACCESSIBLE CEILING SPACE. REWORK/PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 2 REMOVE EXISTING SWITCH. PROVIDE NEW KEYED-SWITCH. PROVIDE NEW SS COVERPLATE TO SUIT.
- 3 REWORK EXISTING WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING CIRCUIT.
- 4 REMOVE EXISTING SWITCH. PROVIDE NEW OCCUPANCY SENSOR. PROVIDE NEW SS COVERPLATE TO SUIT. REFER TO LIGHTING CONTROL SEQUENCE FOR MORE INFORMATION.
- 5 CONTRACTOR SHALL CORE FLOORING AND FEED ACROSS ACCESSIBLE CEILING SPACE FROM FLOOR BELOW. FEED UP FROM GROUND FLOOR AND THROUGH EXTERIOR WALL TO SUIT NEW FIXTURE.
- 6 EXTEND EXISTING WALLPACK CIRCUIT TO SUIT NEW FIXTURES.
- 7 REMOVE AND REPLACE FIXTURE WITH NEW.

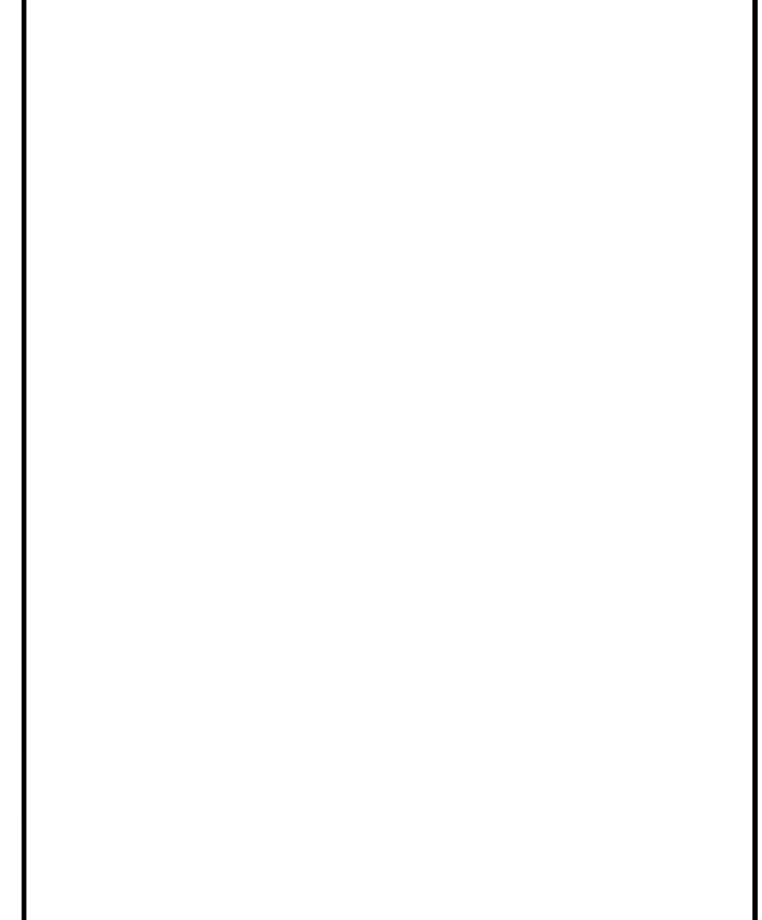


A-FIXTURE MOUNTING SECTION
SCALE: 1:100

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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Key Plan



Professional Engineer
 License No. 100011324
 J.J. JACKSON
 4/1/26
 PROVINCE OF ONTARIO

**WRDSB SUNNYSIDE PS
 INTERIOR & EXTERIOR
 LIGHTING UPGRADES**

**SECOND FLOOR - LIGHTING
 RENOVATION PLAN PART 'B'**

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Project No. 25355
 Drawing No. E305

SECOND FLOOR - LIGHTING RENOVATION PART 'B' PLAN
SCALE: 1:100

REFER TO E304 FOR CONTINUATION

ELECTRICAL SPECIFICATION

GENERAL NOTES

- 1 PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
2 OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS, OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
3 COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
4 VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
5 CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
6 THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
7 SUBMIT COPIES OF SHOP DRAWINGS AS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
8 PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
9 MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
10 PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
11 INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
12 WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF TWO YEARS AFTER FINAL ACCEPTANCE OF SYSTEM.
13 COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
14 PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
15 MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE NOTED):
- SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44")
16 ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
17 SUBMIT TWO COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD DRAWINGS.
18 CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: "RECORD DRAWINGS" THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR/DATE). SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
19 CONTRACTOR SHALL PROVIDE RED LINE RECORD DRAWINGS OF EACH AND EVERY ELECTRICAL DRAWING FOR DEI CONSULTING ENGINEERS TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
20 THE CONTRACTOR IS TO DETERMINE GENERAL INSPECTION FEES WITH THE ELECTRICAL SAFETY AUTHORITY AND INCLUDE AS PART OF TENDER.

BASIC MATERIALS

- 1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
2 CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
3 CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
4 ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATINGS/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE 3/4" (19mm).
5 AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES AND FIRE ALARM DEVICES. LENGTH OF DROP MUST BE LIMITED TO 8'-0" (2400mm).
6 WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES.
7 COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
8 CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45") INTERVALS.
9 COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS.
SYSTEM COLOUR
209 to 600V WHITE
10 THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE.

DRAW BREAKDOWN

- 1 THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT. WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE AND BALANCE.
2 BREAKDOWN SHALL BE AS FOLLOWS:
1 PERMITS AND FEES
2 MOBILIZATION (MAXIMUM 1%)
3 COMMISSIONING (MINIMUM 3%)
4 LIGHTING LAMP REPLACEMENT
5 LIGHTING CONTROLS REPLACEMENT
3 THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW.
4 BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.
5 BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.
6 MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.

SHOP DRAWINGS AND PRODUCT DATA

- 1 FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
2 IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.
3 ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
4 PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
5 CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
6 REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
7 CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
8 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
1 MOUNTING ARRANGEMENTS
2 OPERATING AND MAINTENANCE CLEARANCES, E.G. ACCESS DOOR SWING SPACES.
9 SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY:
1 DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS.
2 MANUFACTURER TEST DATA WHERE REQUESTED.
3 MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION.
4 CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
10 STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT INFORMATION. LIST ON CATALOG COVERS PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA.
11 ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED" OR "REVIEWED AS NOTED" FABRICATION, PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
1 LUMINAIRES
2 WIRING DEVICES
3 OCCUPANCY SENSORS

FIRESTOPPING

- 1 FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN CONDUITS, DUCTS, AND ADJACENT FIRE SEPARATION.
2 PROVIDE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES.
3 COMPLY WITH THE REQUIREMENTS OF CAN4-S115-M35, AND DO NOT EXCEED OPENING SIZED FOR WHICH THEY HAVE BEEN TESTED.
4 SYSTEMS TO HAVE AN F OR FT RATING (AS APPLICABLE) NOT LESS THAN THE FIRE PROTECTION RATING REQUIRED FOR CLOSURES IN A FIRE SEPARATION. PROVIDE "FIREWRAP" BLANKET AROUND SERVICES PENETRATING FIREWALLS.
5 EXTENT OF BLANKET MUST CORRESPOND TO ULC RECOMMENDATIONS. IN GENERAL WRAP INDIVIDUAL CONDUITS WITH APPROVED FIREWRAP MATERIALS ON EACH SIDE OF FIREWALL. REFER TO ARCHITECTURAL DRAWINGS FOR FT RATINGS. PROVIDE 1 AND/OR 2 LAYERS OF FIREWRAP WITH TRANSVERSE AND LONGITUDINAL SEAMS OVERLAPPED AND/OR BUTTED (SECOND LAYER OFFSET FROM FIRST LAYER). CUT EDGES ARE TO BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 50 MM STAINLESS STEEL BANDING AT 200 MM INTERVALS. INSTALL FIREWRAP TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER FT RATING. ACCEPTABLE MANUFACTURERS ARE 3M FIREMASTER DUCTWRAP OR APPROVED EQUAL.
6 THE FIRESTOPPING MATERIALS ARE NOT TO SHRINK, SLUMP OR SAG AND BE FREE OF ASBESTOS, HALOGENS AND VOLATILE SOLVENTS.
7 FIRESTOPPING MATERIALS ARE TO CONSIST OF A COMPONENT SEALANT APPLIED WITH A CONVENTIONAL CAULKING GUN AND TROWEL.
8 FIRESTOP MATERIALS ARE TO BE CAPABLE OF RECEIVING FINISH MATERIALS IN THOSE AREAS, WHICH ARE EXPOSED AND SCHEDULED TO RECEIVE FINISHES.
9 FIRESTOPPING SHALL BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO CONCEALMENT OR ENCLOSURE.
10 INSTALL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION, MANUFACTURERS INSTRUCTIONS AND LOCAL AUTHORITY.
11 SUBMIT PRODUCT LITERATURE AND INSTALLATION MATERIAL ON FIRESTOPPING IN SHOP DRAWING AND PRODUCT DATA MANUAL.
12 ACCEPTABLE MANUFACTURERS:
RECTORSEAL CORPORATION (METACAULK)
PROSET SYSTEMS
3M
HILTI
STI FIRESTOP
NOTE: FIRE STOP MATERIAL MUST CONFORM TO REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR TO CONFIRM PRIOR TO APPLICATION AND ENSURE MATERIAL USED IS COMPATIBLE WITH THAT USED BY OTHER TRADES ON SITE.
13 ENSURE FIRESTOP MANUFACTURER REPRESENTATIVE PERFORMS ON SITE INSPECTIONS AND CERTIFIES INSTALLATION. SUBMIT INSPECTION REPORTS/CERTIFICATION AT TIME OF SUBSTANTIAL COMPLETION.

WIRING DEVICES

- 1 GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION).
2 15 OR 20 A, 120 V, KEY-SWITCHED
3 MANUALLY-OPERATED GENERAL PURPOSE AC SWITCHES WITH THE FOLLOWING FEATURES:
1 TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE.
2 SILVER ALLOY CONTACT.
3 UREA OR MELAMINE MOLDING FOR PARTS SUBJECT TO CARBON TRACKING.
4 SUITABLE FOR BACK AND SIDE WIRING.
5 TOGGLE COLOUR AS SELECTED BY ARCHITECT.
4 ACCEPTABLE MATERIALS:
1 KEYED SWITCH SINGLE POLE: HUBBELL CAT. #HBL18203LCN OR EQUAL
5 INSTALL SINGLE THROW SWITCHES WITH HANDLE IN "UP" POSITION WHEN SWITCH IS CLOSED.
6 INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION.
7 LOW VOLTAGE OCCUPANCY SENSOR:
SENSORSWITCH CM 10 FOR CORRIDORS
- PIR ONLY
- PUSH-BUTTON PROGRAMMABLE
SENSORSWITCH CM-PDT-10 FOR EVERYWHERE ELSE OTHER THAN CORRIDORS.
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
WALL SENSOR WV PDT 16
- DUAL TECHNOLOGY
- LARGE MOTION DETECTION 70FT
SENSORSWITCH CM-PDT-10 FOR EVERYWHERE ELSE OTHER THAN CORRIDORS.
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
POWERPACK PP16X EFP OR PP20 (REFER TO DRAWING) FOR VOLTAGE.
OR EQUAL:
1 HUBBELL
2 LEVITON
3 GREENGATE
8 DIGITAL OCCUPANCY SENSOR:
nLIGHT CAT.# nCM PDT 10
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
DIGITAL RELAY nPP16X EFP OR nPP16 (REFER TO DRAWING) FOR VOLTAGE.
WIRED WALL STATION CAT.# nPDMMA-DX-WH (ON/OFF-RAISE/LOWER 3-BUTTONS)
WIRED WALL STATION CAT.# nPDMMA-WH (ON/OFF 2-BUTTONS)
OR EQUAL:
1 HUBBELL
2 LEVITON
3 GREENGATE.9 PROVIDE OTHER OCCUPANCY SENSORS TO SUIT THE DETAIL(S) ON THE DRAWINGS.

- 10 ALL SENSORS SHALL BE SET TO 5 MINUTES "DELAY TO OFF" UNLESS OTHERWISE DIRECTED.
11 OCCUPANCY SENSORS:
1 INSTALL POWER PACKS/DIGITAL RELAY IN ACCESSIBLE MAINTENANCE AREAS. (REFER TO DRAWING)
2 PROVIDE ACCESS DOORS IF POWER PACKS/DIGITAL RELAY ARE INSTALLED ABOVE DRYWALL CEILINGS.
3 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER COVERAGE WITHIN THE RANGE OF COVERAGE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOMS.
4 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE FACILITY, TO VERIFY PLACEMENT TO SENSORS AND INSTALLATION CRITERIA.
5 THE CONTRACTOR SHALL ALSO PROVIDE THE ON-SITE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES SYSTEMS.
6 UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL. SUBMIT COMMISSIONING REPORT WITH CLOSE-OUT DOCUMENTS.
12 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
13 STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
14 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
15 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.
16 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.
17 LINE VOLTAGE SENSORS - SENSOR SWITCH WSXA PDT WH (REFER TO LIGHTING SEQUENCE CONTROLS FOR VOLTAGE)
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
- VACANCY SENSOR IN STAFF-ONLY AREAS
- OCCUPANCY SENSOR IN STUDENT-ACCESSED AREAS.

LIGHTING SYSTEMS

FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES:

- 1 LED
1 FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD.
2 LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C75.377 SPECIFICATION FOR THE RATED LIFETIME OF THE FIXTURE. COLOUR ACCURACY BETWEEN PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.
3 LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.
4 LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING.
5 LUMINAIRES MUST BE ULC CERTIFIED AND APPROVED FOR USE IN CANADA.
6 FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST.
7 LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR 'DELIVERED' VALUES.
8 OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE 750 MA.
2 FIXTURE INSTALLATION
1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.
2 FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.
14 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
15 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES.
3 GUARANTEE
1 ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE.
2 THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE

OCCUPANCY REQUIREMENTS

- 1 FINAL CERTIFICATES
1 ELECTRICAL SAFETY AUTHORITY

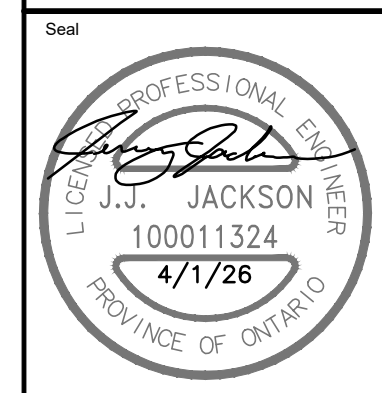
READY FOR TAKEOVER

- 1 COMPLETE THE FOLLOWING TO THE SATISFACTION OF THE CONSULTANT PRIOR TO REQUEST FOR READY FOR TAKEOVER.
1 AS-BUILT DRAWINGS.
2 MAINTENANCE MANUALS.
3 SYSTEM START UP.
4 INSTRUCTIONS TO OWNERS.
5 LIGHTING CONTROL SYSTEM.
6 OUTLET COVER CIRCUIT LABELS.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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ISSUANCES

Table with 4 columns: No, DATE (YY MM DD), DESCRIPTION, BY. Row 1: 1, 26.02.13, ISSUED FOR REVIEW, RV. Row A: A, 26.04.01, ISSUED FOR TENDER, RV.



Project: WRDSB SUNNYSIDE PS INTERIOR & EXTERIOR LIGHTING UPGRADES

SPECIFICATIONS

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Approval table with columns: Drawn by (CP), Checked by (RV), Approved by (RV), Scale (AS NOTED), Project Date (OCT 2025), Print Date, Project No. (25355), Drawing No. (E401)