

LED LIGHTING UPGRADE DOWNTOWN BUILDING

LIST OF DRAWINGS

E000	ELECTRICAL DRAWING LIST AND LEGEND
E100	LEVEL 1 - DEMOLITION
E101	LEVEL 2 - DEMOLITION
E102	LEVEL 3 - DEMOLITION
E103	LEVEL 4 - DEMOLITION
E104	LEVEL 5 - DEMOLITION
E105	TYPICAL LEVELS 6 TO 8, 10 TO 12 - DEMOLITION
E106	LEVEL 9 - DEMOLITION
E200	LEVEL 1 - RENOVATION
E201	LEVEL 2 - RENOVATION
E202	LEVEL 3 - RENOVATION
E203	LEVEL 4 - RENOVATION
E204	LEVEL 5 - RENOVATION
E205	TYPICAL LEVELS 6 TO 8, 10 TO 12 - RENOVATION
E206	LEVEL 9 - RENOVATION
E300	LIGHTING CONTROL WIRING DIAGRAMS

GENERAL NOTES:

- MAINTAIN ALL EXISTING EQUIPMENT SHOWN IN LIGHT SOLID LINES.
- REMOVE ALL EXISTING EQUIPMENT SHOWN IN DARK DASHED LINES.
- NEW EQUIPMENT IS SHOWN IN DARK SOLID LINES.
- PROVIDE POWER BOOSTER TO EACH DALI LOOP TO 240mA
- CONTRACTOR TO PROGRAM THE ADDRESSES OF THE LIGHTING SYSTEM TO ENSURE PROPER OPERATION OF THE NEW LIGHT AND LIGHTING CONTROL.
- EXISTING CONDUITS AND WIRING CONNECTIONS SHALL BE REUSED FOR THE NEW LIGHT FIXTURES AND CONTROLS.
- NEW CONDUITS AND WIRING ARE SHOWN DIAGRAMMATICALLY ONLY. THEY SHALL BE RUN THROUGH SOUND BARRIER WALLS IN APPROPRIATE SLEEVES PROVIDED IN THE CEILING PLENUM. ALL NEW CONDUIT SLEEVES SHALL BE SEALED WITH CAULKING.
- LAMP MANUFACTURER SHALL BE COMPATIBLE WITH THE EXISTING LIGHTING CONTROL SYSTEM TO PROVIDE REQUIRED DIMMING PERFORMANCES.
- ALL LIGHT FIXTURES SHALL BE COMPATIBLE WITH THE EXISTING LIGHTING CONTROL SYSTEM. PROVIDE DIMMING OR ON/OFF CONTROL AS INDICATED.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE CANADIAN ELECTRIC CODE C22.1 AND DIVISION 26 OF THE SPECIFICATION.
- THE CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR ALL FLOORING, FURNISHINGS, AND FINISHES IN THE WORK AREAS ACCESSED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY THEIR WORK OR THE WORK OF ANY SUBCONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN A DUST-FREE ENVIRONMENT DURING THE ENTIRE PROJECT. REFER TO SPECIFICATION SECTION 01 74 11.
- MAKE PROVISION FOR ALL REQUIRED COVID ISOLATION PROCEDURE AND PROTECTION.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- CONTRACT DOCUMENT DRAWINGS FOR WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS.
- WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- CONTRACTOR TO PERFORM ALL WORK AFTER-HOURS.
- CONTRACTOR TO VERIFY THE SIZE OF EXISTING POTLIGHT OPENING IN CEILING TO ENSURE NEW FIXTURE FITS IN EXISTING CUT OUT PRIOR TO SHOP DRAWING SUBMISSION FOR REVIEW.
- CONTRACTOR TO COORDINATE TRIM TYPES WITH EXISTING CEILING TYPES PRIOR TO SHOP DRAWING SUBMISSION FOR REVIEW.

ELECTRICAL LEGEND

GENERAL

# E-###	DETAIL "H" ON DRAWING "E-###"
X	DRAWING NOTE NUMBER 'X'
	MAINTAIN EXISTING
- - -	REMOVE EXISTING
	PROPOSED EQUIPMENT
	NOT IN CONTRACT
EX	GROUPING NUMBER
GND	MEANS 'GROUND'

LIGHTING

	WALL MOUNTED LIGHT FIXTURE, TYPE AS INDICATED.
	DOWNLIGHT FIXTURE, TYPE AS INDICATED.
	EMERGENCY DOWNLIGHT FIXTURE, TYPE AS INDICATED.
	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED.
	EMERGENCY FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED.
	FLUORESCENT STRIP LIGHT FIXTURE, TYPE AS INDICATED.
V	100x 100mm CEILING SLAB MOUNTED JUNCTION BOX FOR VOTE LIGHT
OS	CEILING MOUNTED OCCUPANCY DETECTOR
MS	CEILING MOUNTED MOTION DETECTOR
	DIMMING LIGHTING CONTROL PANEL
Z	ZONE/SCENE LIGHTING CONTROL
LV	LOW VOLTAGE SWITCH
OS	WALL MOUNTED OCCUPANCY SENSOR SWITCH
D	LIGHTING DIMMER SWITCH
3	THREE WAY SWITCH
	SINGLE POLE TOGGLE SWITCH
	DOOR SWITCH MOUNTED ON DOOR JAMB
TP	WALL MOUNTED TOUCHPANEL

LIGHTING SCHEDULE

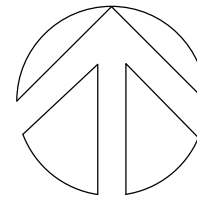
TYPE	SYMBOL	DESCRIPTION	DEPTH (MM)	SIZE (MM)	LOAD	LUMENS	CRI	COLOUR TEMP.	VOLT AGE	FINISH	CONSTRUCTION
B		CEILING MOUNTED LED SERIES FIXTURE.	152.4MM	Ø200MM	38W	2000-3000	85	3000K-5000K	120	CLEAR-SPECULAR	NEW RECESSED HORIZONTALLY MOUNTED LED FIXTURES FOR LEVEL 5 TO 12 MEMBERS OFFICE LIGHTING. RE-USE EXISTING LIGHTING CIRCUIT AND LOCAL ROOM CONTROLS FOR THE COLOUR TEMPERATURE AND LUMEN OUTPUT. WITH A CLEAR PAINTED REFLECTOR COLOUR AND FLANGE WITH A WHITE PLASTER RING. DIMMER MUST BE COMPATIBLE WITH DALI.
B1		CEILING MOUNTED LED SERIES FIXTURE.	152.4MM	Ø200MM	38W	1000-2000	85	3000K-5000K	120	CLEAR-SPECULAR	NEW RECESSED HORIZONTALLY MOUNTED LED FIXTURES FOR LEVELS 2-12 LOBBY, VESTIBULES, CORRIDORS, WASHROOMS BOOTHS, CAFETERIA, KITCHENNETTE AND STAIRCASE LIGHTING. RE-USE EXISTING LIGHTING CIRCUIT AND LOCAL ROOM CONTROLS FOR THE COLOUR TEMPERATURE AND LUMEN OUTPUT. WITH A CLEAR SPECULAR REFLECTOR AND A WHITE PLASTER RING. DRIVER SHALL BE COMPATIBLE WITH DALI.
B3		CEILING MOUNTED LED SERIES FIXTURE.	152.4MM	Ø160MM	38W	2000-3000	85	3000K-5000K	120	CLEAR-SPECULAR	NEW RECESSED HORIZONTALLY MOUNTED LED FIXTURES FOR LEVEL 2, 5 TO 12 OPS CENTRE AND VESTIBULE LIGHTING. RE-USE EXISTING LIGHTING CIRCUIT AND LOCAL ROOM CONTROLS FOR THE COLOUR TEMPERATURE AND LUMEN OUTPUT. SURFACE MOUNT WIREGUARD. WITH A CLEAR SPECULAR REFLECTOR COLOUR AND FLANGE AS WELL AS A WHITE PLASTER RING. DRIVER SHALL BE COMPATIBLE WITH DALI.
M		CEILING MOUNTED LED SERIES FIXTURE.	152.4MM	Ø150MM	38W	2000-3000	85	3000K-5000K	120	CLEAR-SPECULAR	NEW RECESSED HORIZONTALLY MOUNTED LED FIXTURES FOR LEVEL 1 LOBBY AND VESIBULE LIGHTING. RE-USE EXISTING LIGHTING CIRCUIT AND LOCAL ROOM CONTROLS FOR THE COLOUR TEMPERATURE AND LUMEN OUTPUT. SURFACE MOUNT WIREGUARD. WITH A CLEAR SPECULAR REFLECTOR COLOUR AND FLANGE AS WELL AS A WHITE PLASTER RING. DRIVER SHALL BE COMPATIBLE WITH DALI.
H5		CEILING MOUNTED LED SERIES FIXTURE.	152.4MM	Ø160MM	38W	2000-3000	85	3000K-5000K	120	SEMI-SPECULAR	NEW RECESSED HORIZONTALLY MOUNTED LED FIXTURES FOR LEVEL 2 LOBBY LIGHTING. RE-USE EXISTING LIGHTING CIRCUIT AND LOCAL ROOM CONTROLS FOR THE COLOUR TEMPERATURE AND LUMEN OUTPUT. SURFACE MOUNT WIREGUARD. WITH A CLEAR SPECULAR REFLECTOR COLOUR AND FLANGE AS WELL AS A WHITE PLASTER RING. DRIVER SHALL BE COMPATIBLE WITH DALI.

LIGHTING CONTROLS SCHEDULE

TYPE	AREA	SYMBOL	TECHNOLOGY	COMMENTS
GENERAL				
OCCUPANCY SENSOR	WASHROOM AREAS	OS A	ULTRASONIC	WIRING CHANGES SHALL BE MADE IN THE SENSOR JUNCTION BOXES
	CORRIDOR AREAS	OS B	DUAL TECHNOLOGY (PIR & ULTRASONIC)	REWIRING SHALL BE NEEDED. DALI OCCUPANCY SENSOR POWERED BY DALI BUS
	OFFICE SUITES	MS A	DUAL TECHNOLOGY (PIR & ULTRASONIC)	REWIRING SHALL BE NEEDED. DALI OCCUPANCY SENSOR POWERED BY DALI BUS C/W A DAYLIGHT HARVESTING FUNCTION. CLOSED-LOOP BASIS FOR DAYLIGHT SENSOR CONTROL SCHEME. PARTIALLY SHIELDED FOR ACCURATE DETECTION OF AVAILABLE DAYLIGHT TO PREVENT FIXTURE LIGHTING AND HORIZONTAL COMPONENT FROM SKEWING SENSOR DETECTION. PROVIDE LINEAR RESPONSE FROM 0 TO 650 LUX.
SWITCH	-		LOW VOLTAGE LIGHT SWITCH	EXISTING BASE BUILDING LIGHTING CONTROL
OCCUPANCY SENSOR SWITCH	OFFICE SUITES	OS A	LOW VOLTAGE LIGHT SWITCH INTEGRATED WITH AN OCCUPANCY SENSOR.	LIGHTING CONTROL C/W DIMMING CONTROL FEATURE. DIMMING CONTROL SHALL HAVE THE CAPACITY TO OVERIDE THE LIGHTING LEVEL CONTROLLED BY THE DAYLIGHT SENSORS.
WALL MOUNTED DALI SYSTEM TOUCHPAD	CORRIDOR AREAS	TP	DALI INTEGRATED TOUCHPAD	A DALI XC MODULE MAY BE REQUIRED TO CONNECT TO TOUCH PADS TO SEND DALI COMMANDS. NEW WALL MOUNTED DALI SYSTEM TOUCHPAD FOR LEVELS 2 - 12 CORRIDORS. RE-USE EXISTING CIRCUIT. TOUCHPAD SHALL BE COMPATIBLE WITH DALI.
OCCUPANCY SENSOR SWITCH	-	OS	LOW VOLTAGE LIGHT SWITCH INTEGRATED WITH AN OCCUPANCY SENSOR.	EXISTING BASE BUILDING LIGHTING CONTROL
OFFICE SUITE 960				
SWITCH	-	OS B	RF SELF-POWERED WIRELESS REMOTE SWITCH	DIMMING CONTROL FEATURE
OCCUPANCY SENSOR	-	MS B	RF SELF-POWERED WIRELESS PASSIVE INFRARED OCCUPANCY SENSOR	A DALI XC MODULE WILL NEED TO BE CONNECTED TO THE WSPAS-LV-4 LOW VOLTAGE RECEIVER. REFER TO SPECIFICATIONS FOR DETAILS ABOUT RANGE, CHARGE TIME, BATTERY LIFE ETC.
1. ALL NEW LIGHTING SENSORS AND SWITCHES SHALL BE COMPATIBLE WITH DALI.				
2. REFER TO SPECIFICATION SECTION FOR DETAILS				

Canada

Public Services and Procurement Canada
Services publics et Approvisionnement Canada
Real Property Branch
Direction générale des biens immobiliers



Project North
Nord du projet

Contractor to verify all dimensions
& conditions on site and immediately
notify the engineer of all discrepancies.

1 ISSUED FOR TENDER 2021/12/16

revisions	description	date
A C	A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no.	A B C

project projet

DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing dessin

ELECTRICAL DRAWING LIST AND LEGEND

Designed By Date	K. Sellathurai November 2021	Conçu par (yyyy/mm/dd)
Drawn By Date	A. Tharmakalurajah / M. Tjoa November 2021	Dessiné par (yyyy/mm/dd)
Reviewed By Date	K. Sellathurai November 2021	Examiné par (yyyy/mm/dd)
Approved By Date	J. Discher P.Eng. December 2021	Approuvé par (yyyy/mm/dd)
Tender	MARTIN BOULAY	Soumission
Project Manager Project no.	Administrateur de projets No. du projet	
R.102621.002		
Drawing no.	No. du dessin	
E000		



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
revisions	description	date

A detail no.
no. du détail

B location drawing no.
sur dessin no.

C drawing no.
dessin no.

project	projet
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DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 1 - DEMOLITION

Designed By	Conçu par
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Date (yyyy/mm/dd)

Drawn By _____ Dessine par _____

Date	(yyyy/mm/dd)
Reviewed By	Examiné par

Date (yyyy/mm/dd)

Approved By	Approuvé par
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Date	(yyyy/mm/dd)

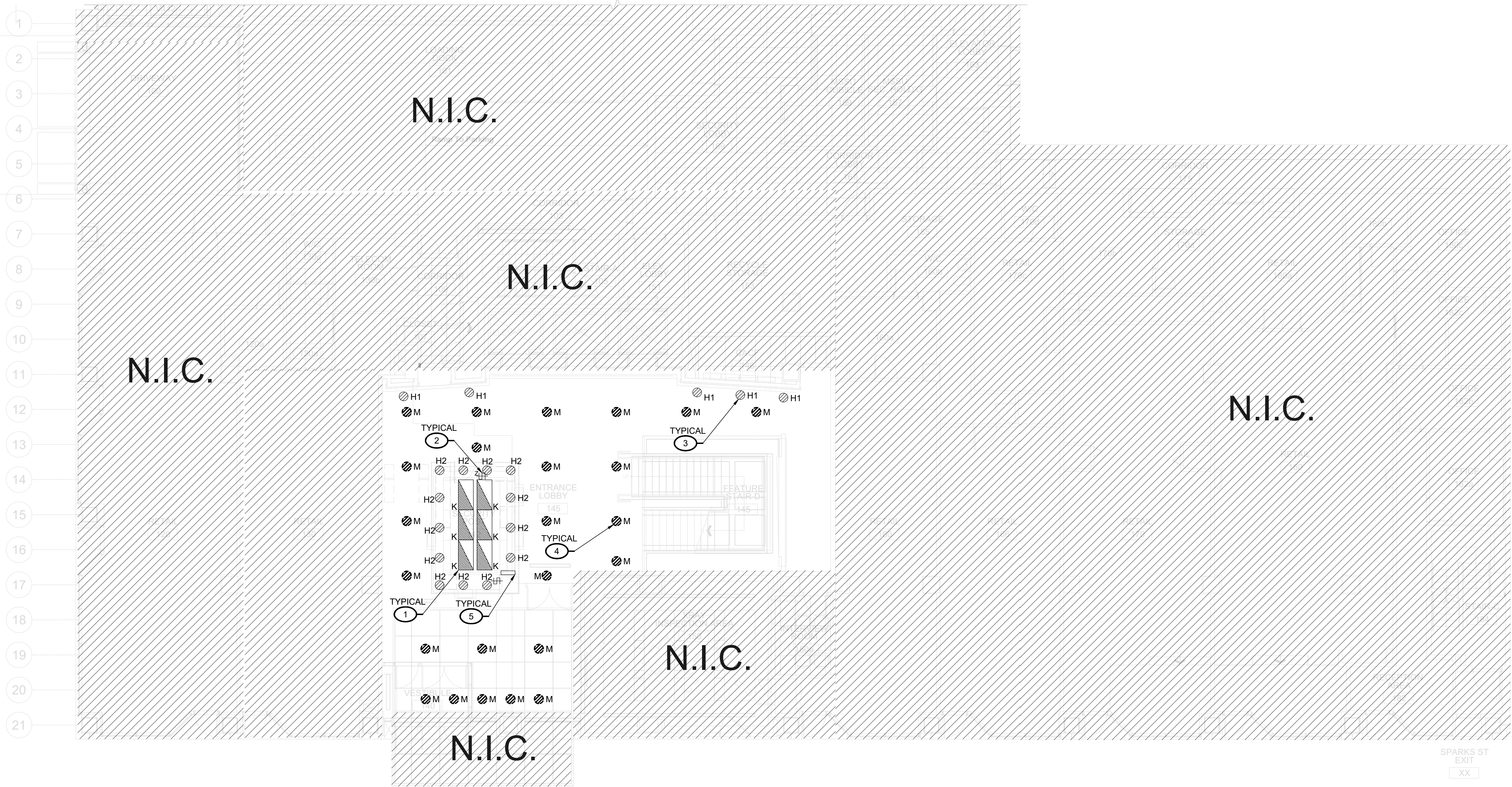
MARTIN BOULAY

Project Manager	Administrateur de projets
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Project No.	No. du projet
D-100001-000	

R.102021.002

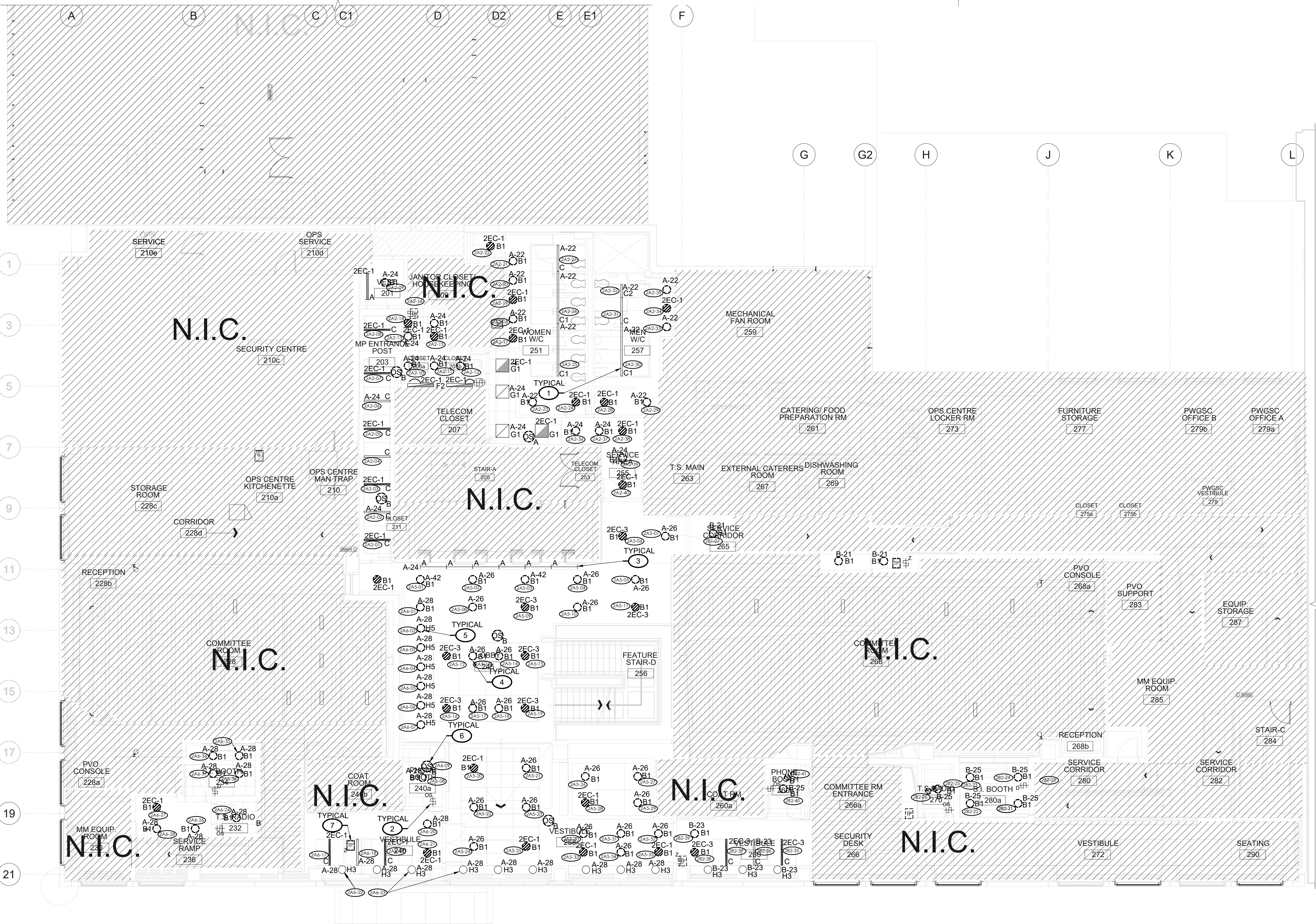
Drawing No. **E100** No. du dessin



DRAWING NOTES:

- ① MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
- ② MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
- ③ MAINTAIN EXISTING DOWN LIGHTS TYPE 'H1' AND 'H2' ON EMERGENCY POWER.
- ④ DISCONNECT AND REMOVE EXISTING DOWN LIGHTS TYPE 'M' AND CONFIRM WITH OWNER FOR THE DISPOSAL OF THE REMOVED LIGHT FIXTURES.
- ⑤ MAINTAIN EXISTING LIGHTING CONTROL PANEL.

1 E100 LEVEL 1 - DEMOLITION LIGHTING PLAN SCALE: 1 / 100



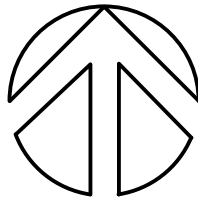
DRAWING NOTES:

- 1 MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
- 2 MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
- 3 MAINTAIN EXISTING FLUORESCENT STRIP LIGHTS.
- 4 DISCONNECT AND REMOVE EXISTING DOWNLIGHTS, TYPE 'B1' TO BE REPLACED WITH NEW LED LIGHT FIXTURES. EXISTING CIRCUITS AND CONTROL TO REMAIN. REFER TO SPECIFICATION FOR DETAILS.
- 5 DISCONNECT AND REMOVE EXISTING DOWNLIGHTS, TYPE 'H5' TO BE REPLACED WITH NEW LED LIGHT FIXTURES. EXISTING CIRCUITS WIRING AND CONTROL TO REMAIN. REFER TO SPECIFICATION FOR DETAILS.
- 6 DISCONNECT AND REMOVE EXISTING CEILING MOUNTED OCCUPANCY SENSORS TO BE REPLACED WITH NEW LOW VOLTAGE OCCUPANCY SENSORS. MAINTAIN EXISTING CONTROL AND WIRING. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
- 7 DISCONNECT AND REMOVE EXISTING WALL MOUNTED TOUCH PANEL.

1 LEVEL 2 - DEMOLITION LIGHTING PLAN
E101 SCALE: 1 / 100



Public Services and Procurement Canada Services publics et Approvisionnement Canada
Real Property Branch Direction générale des biens immobiliers



Project North
Nord du projet

Contractor to verify all dimensions
& conditions on site and immediately
notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
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revisions	description	date
A	A detail no.	A
C	C drawing no.	C

project project

DOWNTOWN BUILDING
LED LIGHTING UPGRADE

drawing dessin

LEVEL 2 - DEMOLITION

Designed By	K. Sellathurai	Conçu par	
Date	November 2021	(yyyy/mm/dd)	
Drawn By	A. Tharmakalurajah / M. Tjoa	Dessiné par	
Date	November 2021	(yyyy/mm/dd)	
Reviewed By	K. Sellathurai	Examiné par	
Date	November 2021	(yyyy/mm/dd)	
Approved By	J. Discher P.Eng.	Approuvé par	
Date	December 2021	(yyyy/mm/dd)	
Tender	MARTIN BOULAY	Soumission	
Project Manager		Administrateur de projets	
Project no.		No. du projet	
	R.102621.002		
Drawing no.		No. du dessin	
	E101		



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
visions	description	date

A detail no.
no. du détail

B location drawing no.
sur dessin no.

C drawing no.
dessin no.

DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 3 - DEMOLITION

Designed By	K. Sellathurai	Conçu par
Date	November 2021	(yyyy/mm/dd)

Drawn By	A. Tharmakalurah / M. Tjoa	Dessiné par
Date	November 2021	(yyyy/mm/dd)

Reviewed By	K. Sellathurai	Examiné par
Date	November 2021	(yyyy/mm/dd)

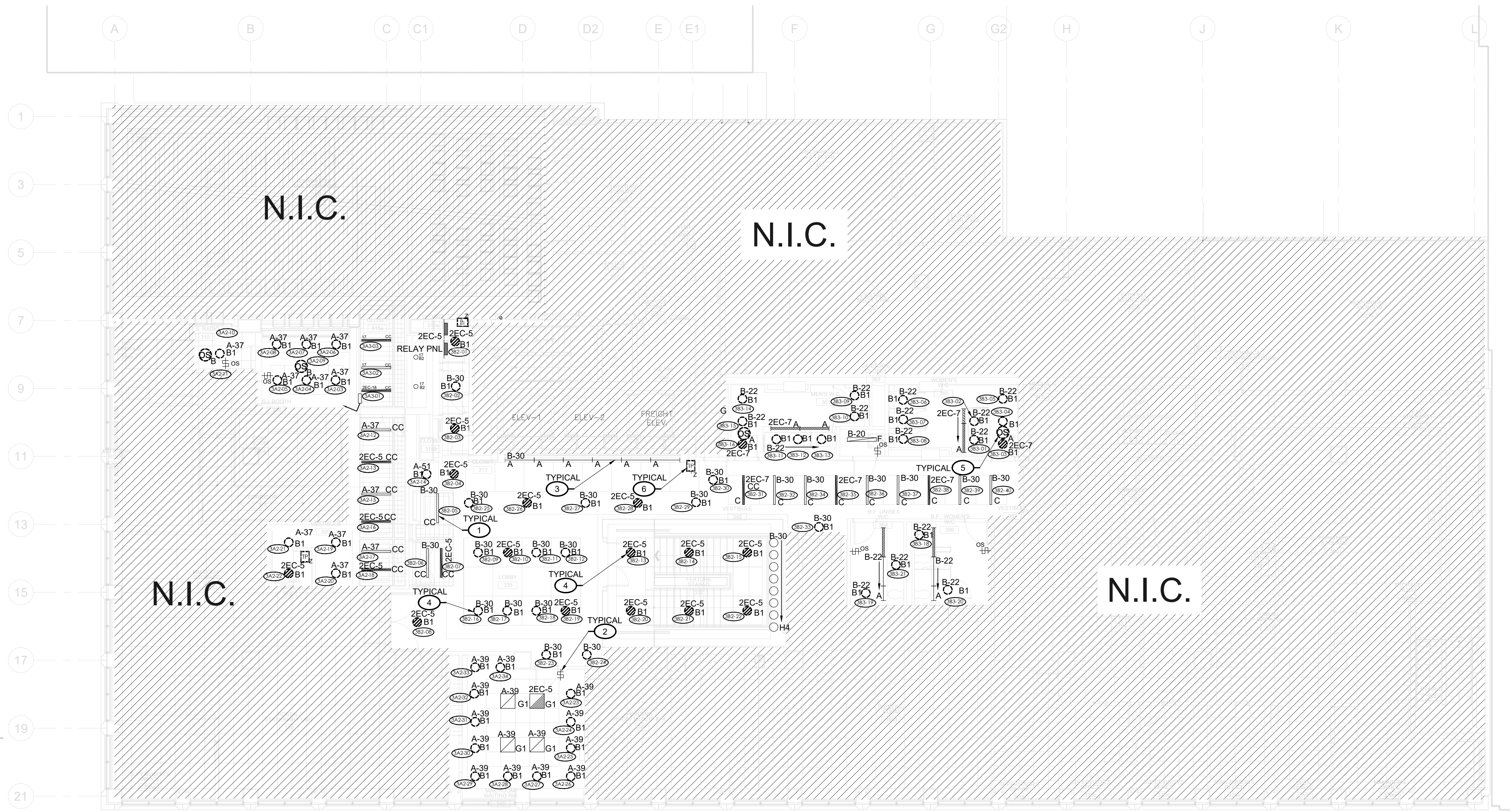
Approved By	J. Discher P.Eng.	Approuvé par
Date	December 2021	(yyyy/mm/dd)

ender	MARTIN BOULAY	Soumission
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Project Manager	Administrateur de projets
Project no.	No. du projet
D-100001-000	

R.102621.002

Drawing no.	No. du dessin
E102	



DRAWING NOTES:

- 1 MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
- 2 MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
- 3 MAINTAIN EXISTING FLUORESCENT STRIP LIGHTS.
- 4 DISCONNECT AND REMOVE EXISTING DOWN LIGHTS, TYPE 'B1' TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUIT WIRING AND CONTROLS. REFER TO SPECIFICATION FOR DETAILS.
- 5 DISCONNECT AND REMOVE EXISTING OCCUPANCY SENSOR. MAINTAIN EXISTING WIRING AND CONTROLS.
- 6 DISCONNECT AND REMOVE EXISTING WALL MOUNTED TOUCH PANEL.

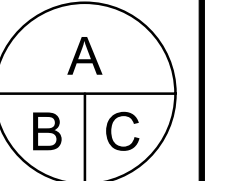
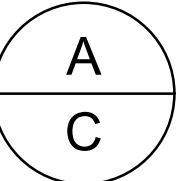
1 LEVEL 3 - DEMOLITION LIGHTING PLAN
E102 SCALE: 1 / 100



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

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1	ISSUED FOR TENDER	2021/12/16
visions	description	date



project	projet
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DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 4 - DEMOLITION |

Designed By	K. Sellathurai	Conçu par
Date	November 2021	(yyyy/mm/dd)

Drawn By	A. Tharmakalurajah / M. Tjoa	Dessiné par
Date	November 2021	(yyyy/mm/dd)

Reviewed By	K. Sellathurai	Examiné par
Date	November 2021	(yyyy/mm/dd)

Approved By	J. Discher P.Eng.	Approuvé par
Date	December 2021	(yyyy/mm/dd)

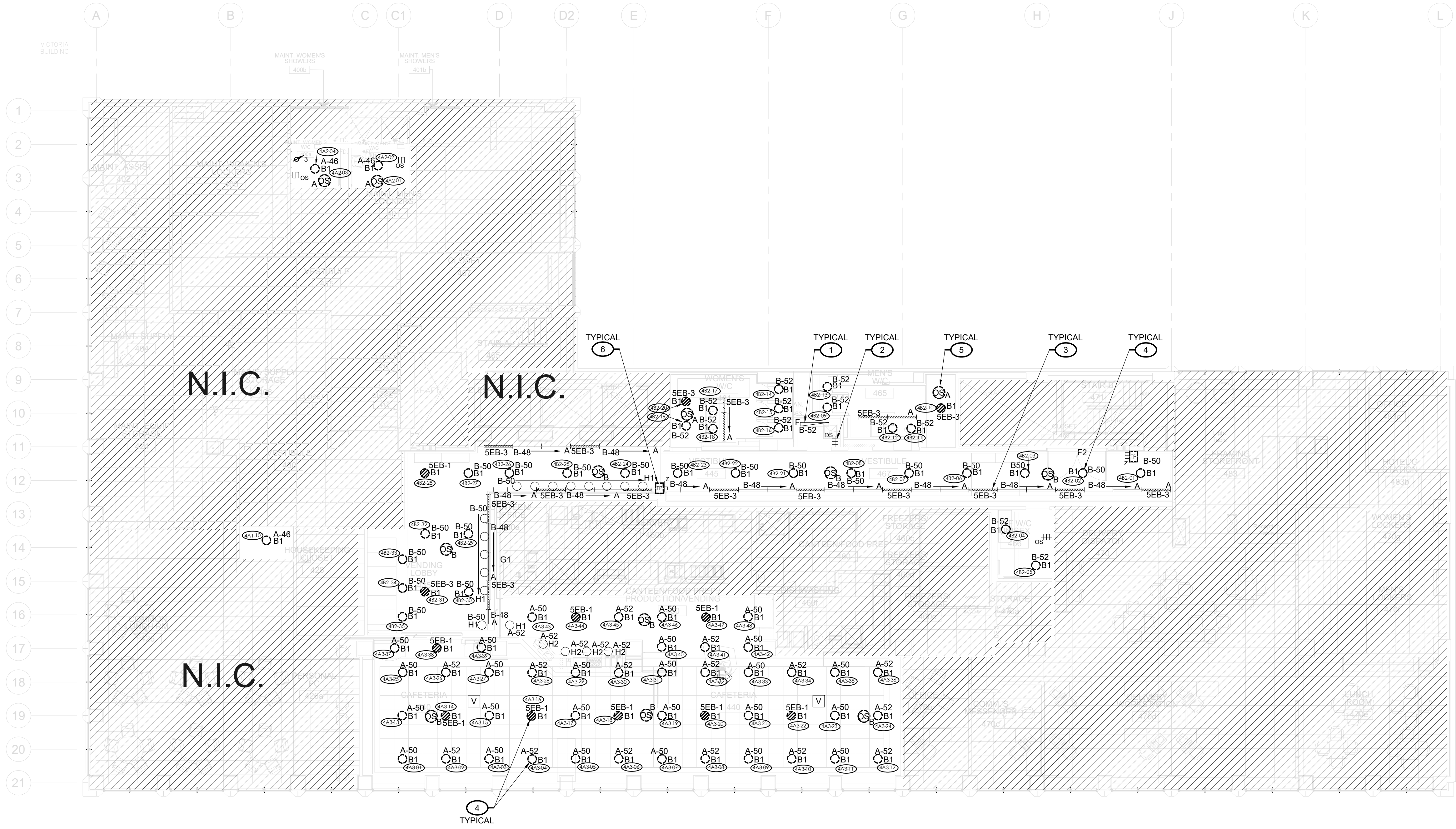
ender	MARTIN BOULAY	Soumission
roject Manager	Administrateur de projets	

Project no.	No. du projet
R.102621.002	

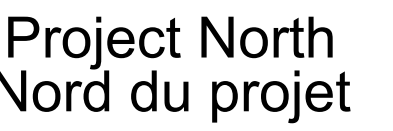
Drawing no. E103	No. du dessin 103
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DRAWING NOTES:

- ① MAINTAIN EXISTING BASE BUILDING FLOURESCENT FIXTURES.
- ② MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
- ③ MAINTAIN EXISTING FLOURESCENT STRIP LIGHTS.
- ④ DISCONNECT AND REMOVE EXISTING DOWN LIGHT TYPE 'B1' TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.
- ⑤ DISCONNECT AND REMOVE EXISTING CEILING MOUNTED OCCUPANCY SENSORS TO BE REPLACED WITH NEW LOW VOLTAGE OCCUPANCY SENSORS. MAINTAIN EXISTING CONTROL AND WIRING. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
- ⑥ DISCONNECT AND REMOVE EXISTING WALL MOUNTED TOUCH PANEL.





1 LEVEL 4 - DEMOLITION LIGHTING PLAN
E103 SCALE: 1 / 100



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
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divisions	description	date
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A detail no.
no. du détail
 B location drawing no.
sur dessin no.
 C drawing no.
dessin no.

project	projet
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DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 5 - DEMOLITION

Designed By	K. Sellathurai	Conçu par
Date	November 2021	(yyyy/mm/dd)

Drawn By A. Tharmakalurajah / M. Tjoa Dessiné par
Date November 2021 (yyyy/mm/dd)

Reviewed By	K. Sellathurai	Examiné par
Date	November 2021	(yyyy/mm/dd)

Approved By	J. Discher P.Eng.	Approuvé par
Date	December 2021	(yyyy/mm/dd)

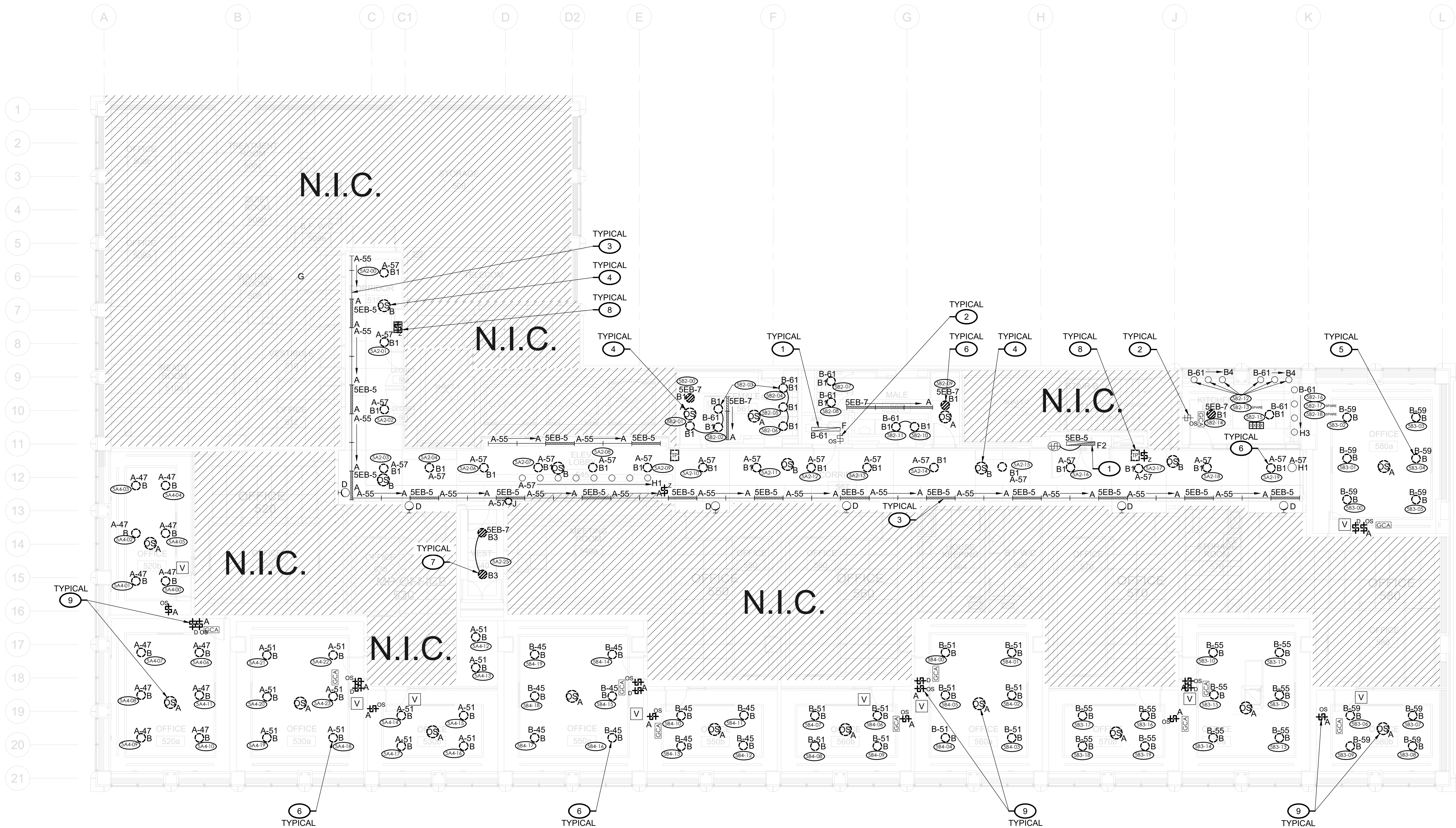
ender	MARTIN BOULAY	Soumission
roject Manager	Administrateur de projets	

project no.	No. du projet
R 102621 002	

Drawing no. E104	No. du dessin 104
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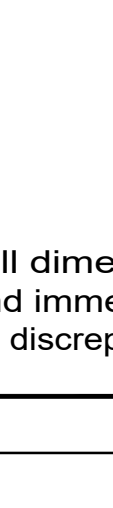
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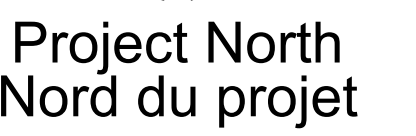
1. MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
2. MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
3. MAINTAIN EXISTING FLUORESCENT STRIP LIGHTS.
4. DISCONNECT AND REMOVE EXISTING OCCUPANCY SENSOR. MAINTAIN EXISTING CONTROL WIRING.
5. DISCONNECT AND REMOVE EXISTING DOWN LIGHTS, TYPE 'B' TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUIT WIRING AND CONTROLS. REFER TO SPECIFICATION FOR DETAILS.
6. DISCONNECT AND REMOVE EXISTING DOWN LIGHTS TYPE 'B1'. TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUIT WIRING AND CONTROLS. REFER TO SPECIFICATION FOR DETAILS.
7. DISCONNECT AND REMOVE EXISTING DOWN LIGHTS TYPE 'B3'. TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUIT WIRING AND CONTROLS. REFER TO SPECIFICATION FOR DETAILS.
8. DISCONNECT AND REMOVE EXISTING WALL MOUNTED TOUCH PANEL.
9. DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES AND CEILING MOUNTED OCCUPANCY SENSOR TO BE REPLACED WITH COMPATIBLE NEW DUAL VOLTAGE LIGHT SWITCH AND OCCUPANCY SENSOR WITH DAYLIGHT HARVESTING FEATURE. CONNECT TO THE EXISTING CIRCUIT AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.





1 LEVEL 5 - DEMOLITION LIGHTING PLAN
E104 SCALE: 1 / 100



		
	Public Services and Procurement Canada	Services publics et Approvisionnement Canada
Real Property Branch	Direction générale des biens immobiliers	
 Project North Nord du projet		
Contractor to verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.		
1	ISSUED FOR TENDER	2021/12/16
revisions	description	date
	A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no.	
project		projet
<h2 style="margin: 0;">DOWNTOWN BUILDING LED LIGHTING UPGRADE</h2>		
drawing		dessin
<h2 style="margin: 0;">TYPICAL LEVELS 6 TO 8, 10 TO 12 - DEMOLITION</h2>		
Designed By Conçu par K. Sellathurai November 2021 Date (yyyy/mm/dd)		
Drawn By Dessiné par A. Tharmakulurajah / M. Tjoa November 2021 Date (yyyy/mm/dd)		
Reviewed By Examiné par K. Sellathurai November 2021 Date (yyyy/mm/dd)		
Approved By Approuvé par J. Discher P.Eng. December 2021 Date (yyyy/mm/dd)		
Tender Soumission MARTIN BOULAY		
Project Manager Administrateur de projets Project no. No. du projet <div style="text-align: center; font-weight: bold; font-size: 1.2em;">R.102621.002</div>		
Drawing no. No. du dessin <div style="text-align: center; font-weight: bold; font-size: 1.2em;">E105</div>		



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

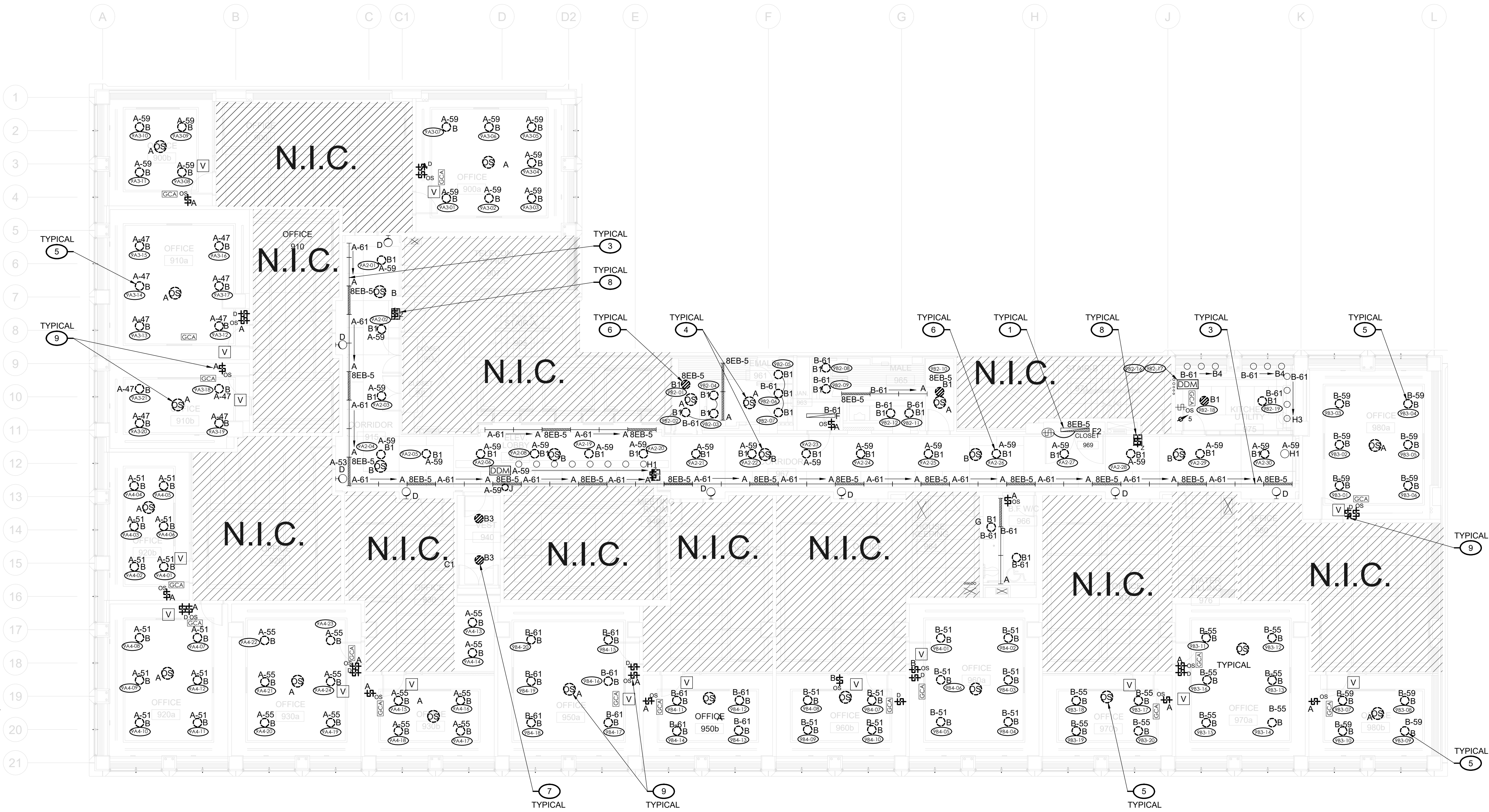



A detail no.
no. du détail
 B location drawing no.
sur dessin no.
 C drawing no.
dessin no.

drawing	dessin
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E106

1. MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
2. MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
3. MAINTAIN EXISTING FLUORESCENT STRIP LIGHTS.
4. DISCONNECT AND REMOVE EXISTING OCCUPANCY SENSOR. MAINTAIN EXISTING CONTROL WIRING.
5. DISCONNECT AND REMOVE EXISTING DOWN LIGHTS TYPE 'B'. TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.
6. DISCONNECT AND REMOVE EXISTING DOWN LIGHTS TYPE 'B1'. TO BE REPLACED WITH NEW LED LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.
7. DISCONNECT AND REMOVE EXISTING DOWN LIGHT TYPE 'B3'. TO BE REPLACED WITH NEW LED LIGHT FIXTURES. CONNECT TO THE EXISTING CIRCUITS AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.
8. DISCONNECT AND REMOVE EXISTING WALL MOUNTED TOUCH PANEL.
9. DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES AND CEILING MOUNTED OCCUPANCY SENSORS TO BE REPLACED WITH NEW DALLI COMPATIBLE LOW VOLTAGE LIGHT SWITCH AND OCCUPANCY SENSOR WITH DAYLIGHT HARVESTING FEATURE. MAINTAIN EXISTING CIRCUIT AND CONTROL. REFER TO SPECIFICATION FOR DETAILS.




1 LEVEL 9 - DEMOLITION LIGHTING PLAN
E106 SCALE: 1 / 100



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.


2	ISSUED FOR TENDER	2021/11/17
1	ISSUED FOR 99% REVIEW	2021/10/07
0	ISSUED FOR 99% REVIEW	2021/09/27
revisions	description	date



A detail no.
no. du detail

B location drawing no.
sur dessin no.

C drawing no.
dessin no.



project	proje
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DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 1 - RENOVATION

Designed By K. Sallathurani Conçu pa

Date November 2021 (yyyy/mm/dd)

Drawn By _____ Dessiné par _____

Date November 2021 (vvvv/mm/dd)

Reviewed By	Examiné par
-------------	-------------

Date: November 2021 <https://doi.org/10.2196/2021.11.11>

Date	November 2021	(yyyy/mm/dd)
Approved By	Approuvé par	

Approved By J. Discher P.Eng.
December 2021

Date	December 2021	(yyyy/mm/dd)
Tender	Submission	

MARTIN BOULAY

Project Manager Administrateur de projets

Project no.	No. du proje
-------------	--------------

R 102621 002

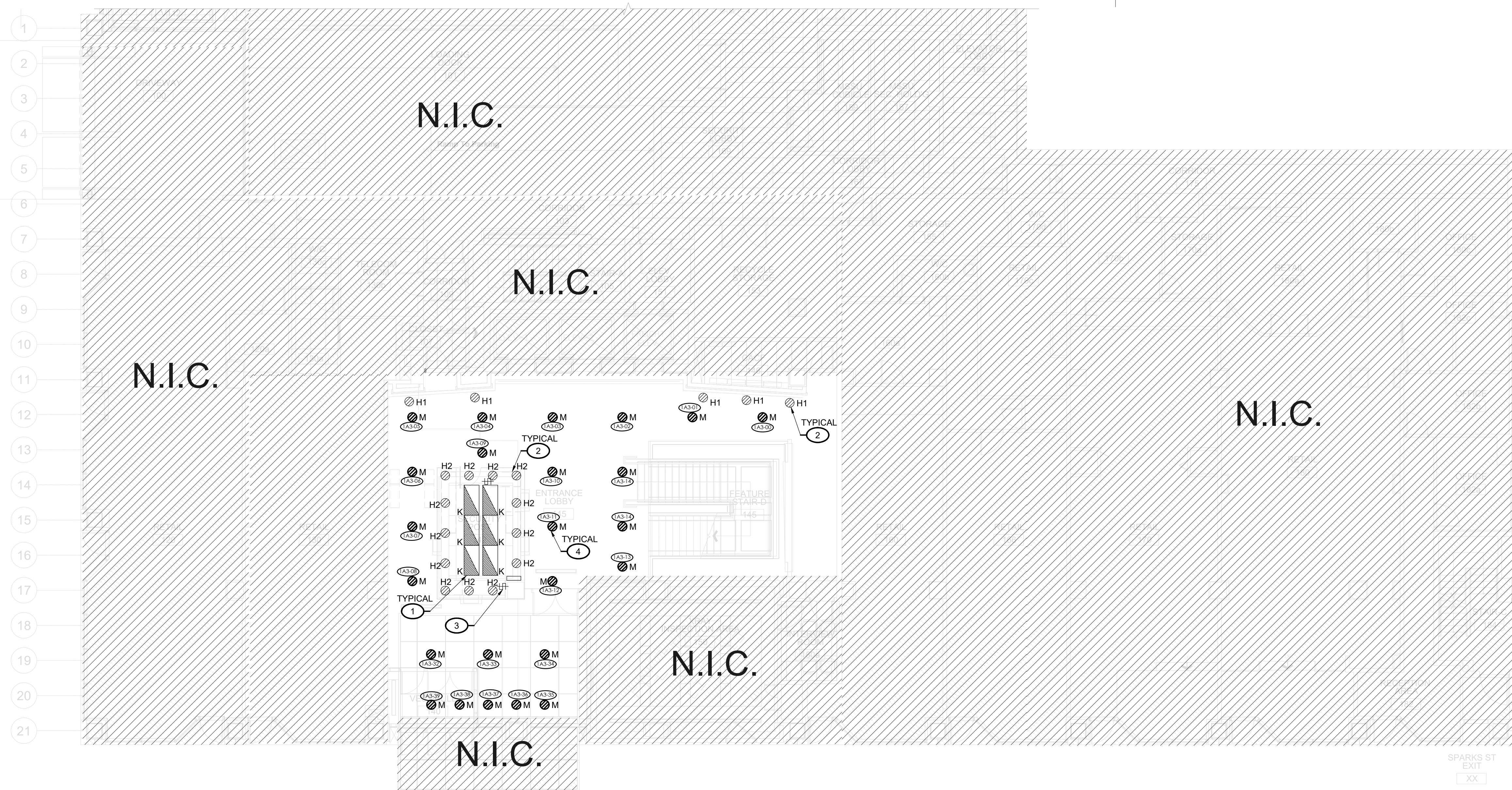
PROPERTY NO.					

Drawing no. **5000** No. du dessin

E200

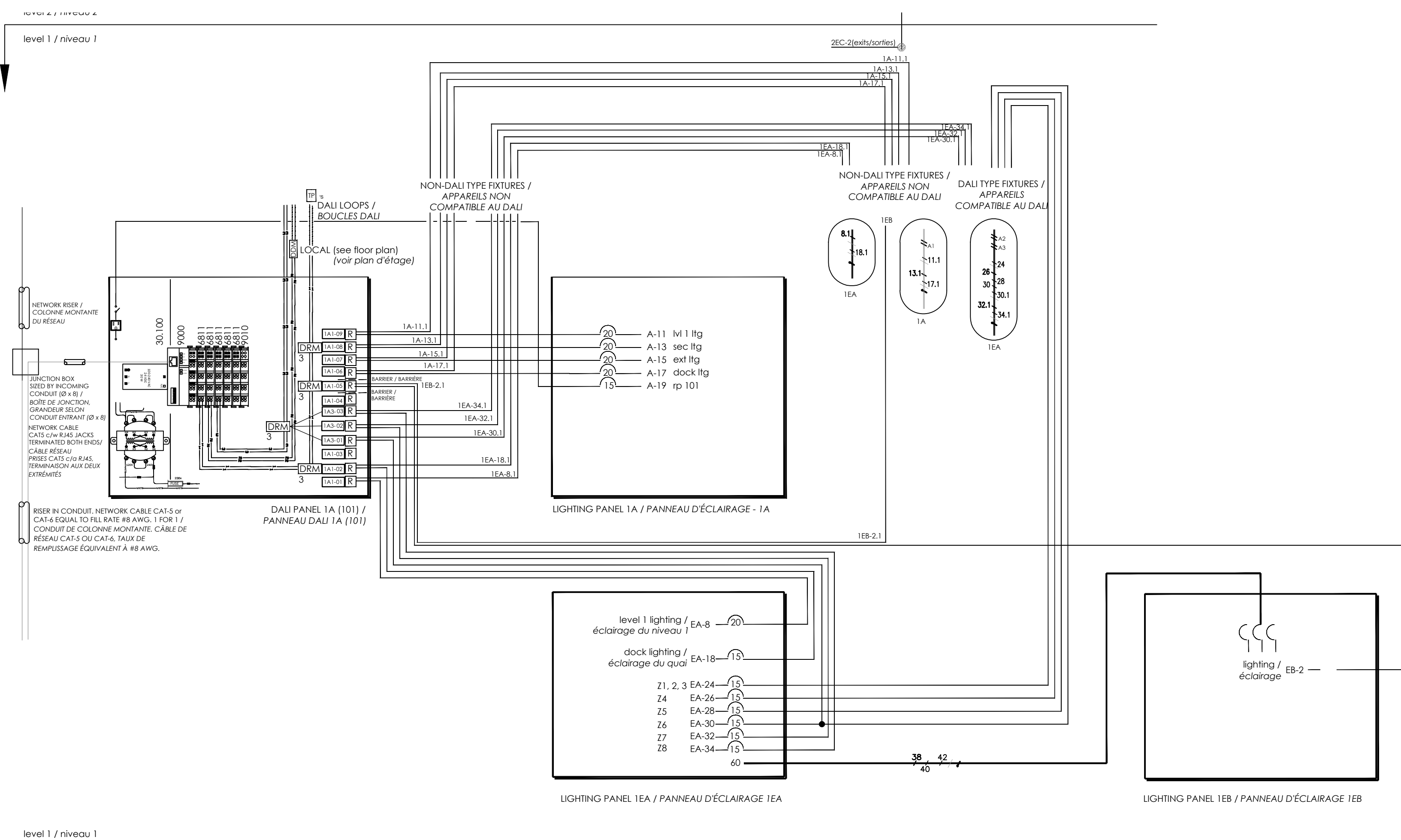
DRAWING NOTES:

- 1 MAINTAIN EXISTING BASE BUILDING FLUORESCENT FIXTURES.
- 2 MAINTAIN EXISTING DOWN LIGHTS' FIXTURE TYPE 'H1' AND 'H2'.
- 3 MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
- 4 PROVIDE NEW RECESSED DOWN LIGHT TYPE 'M', AS SHOWN IN THE LIGHTING SCHEDULE. CONNECT TO EXISTING ELECTRICAL CIRCUIT AND CONTROLS CONNECTED TO THE DALI SYSTEM. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.



1 LEVEL 1 - RENOVATION LIGHTING PLAN

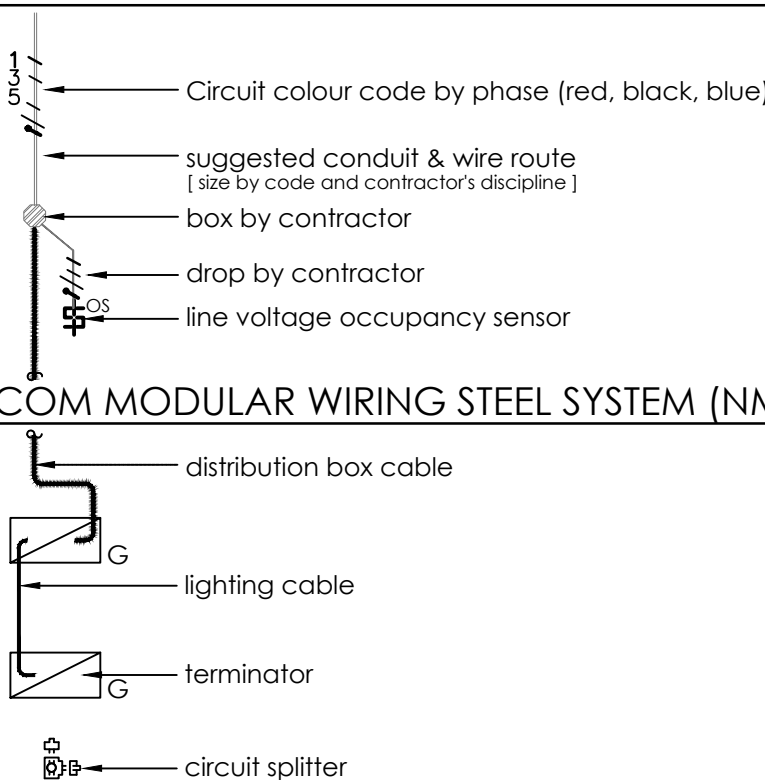
E200 SCALE: 1 / 100



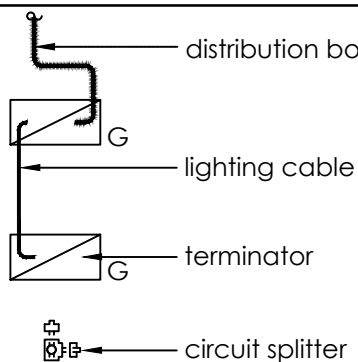
2 LEVEL 1 - EXISTING DALI SYSTEM SINGLE LINE DIAGRAM (FOR REFERENCE ONLY)

E200 SCALE: 1 / 100

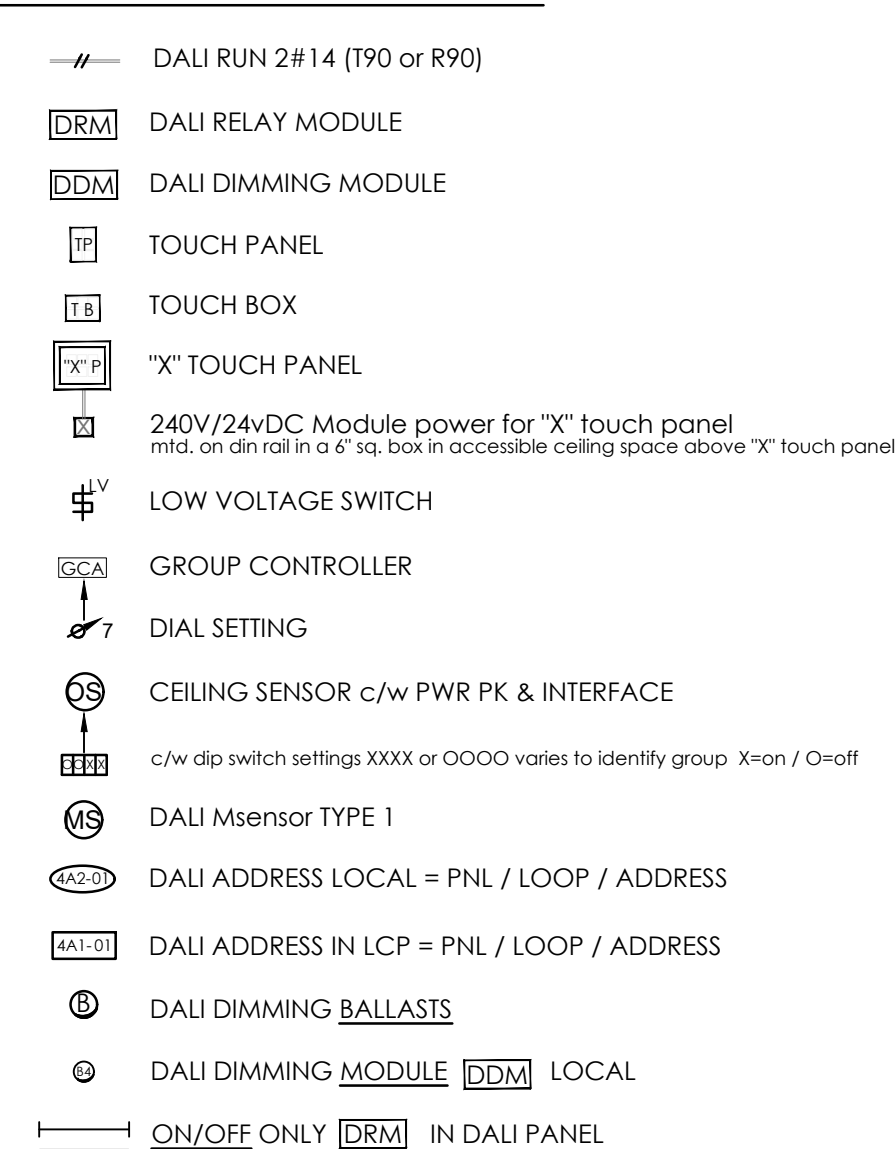
NOCOM INFORMATION ON INSTALLATION LEGEND



NOCOM MODULAR WIRING STEEL SYSTEM (NMWSS) LEGEND



NOCOM DALI SYSTEM LEGEND



NOTE:
 fixture type adjusted;
 A to A1 (when dimming required)
 C1 to C2

===== suggested conventional wiring per applicable code(s)


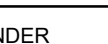
FIXTURE TYPES & MEANS OF CONTROL LEGEND

UNSWITCHED CIRCUIT DIRECT FROM POWER PANEL → Dali full control [ballast] in fixture
→ Dali dim by mod [DDM] local location
SWITCHED CIRCUIT LEG FROM DALI PANEL → Dali on/off only [DRM] panel location

DALI DIMMING DRIVER
M



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
visions	description	date
 <p>A detail no. no. du détail</p>	<p>B location drawing no. sur dessin no.</p> <p>C drawing no. dessin no.</p>	

project	projet
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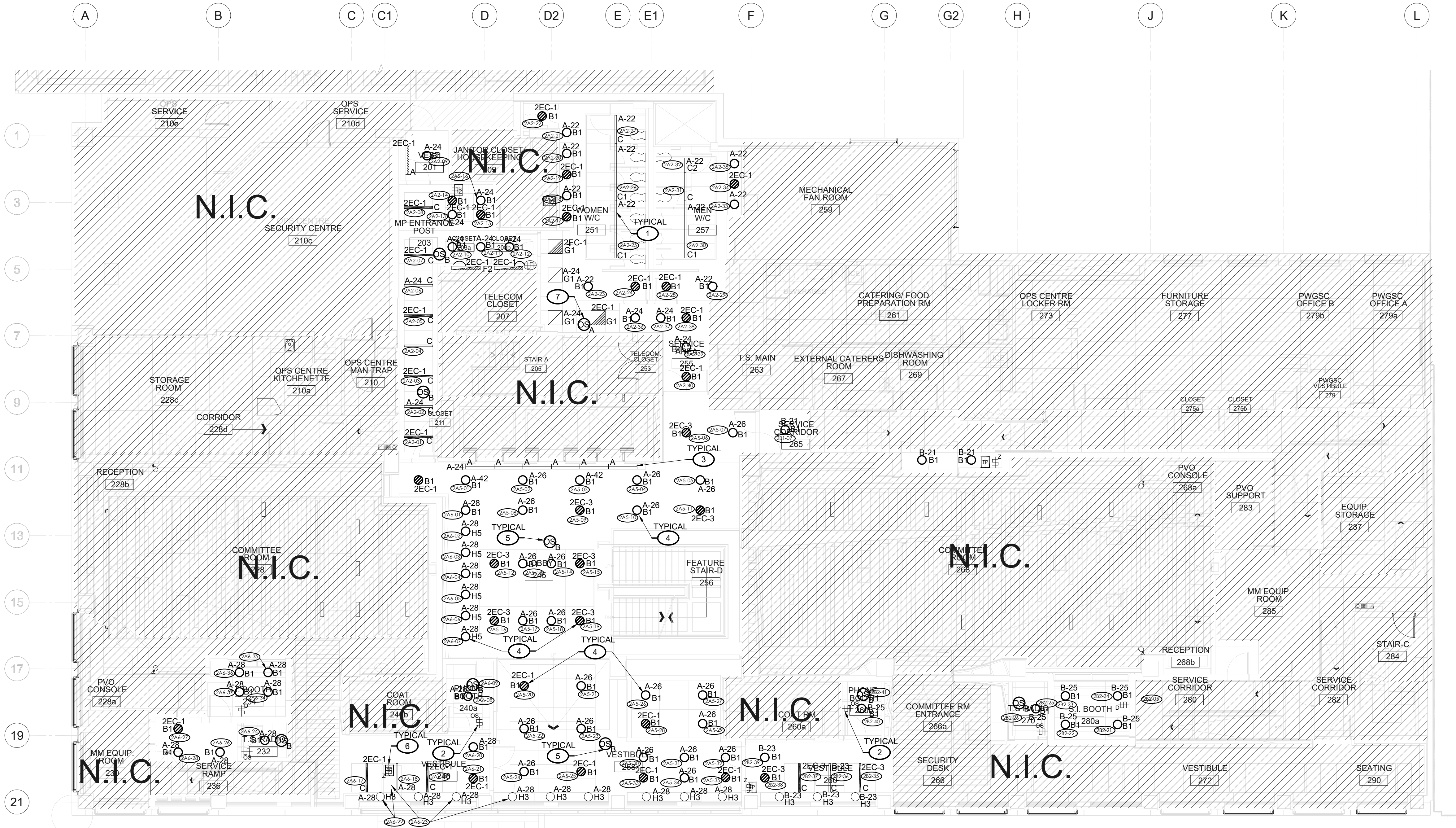
DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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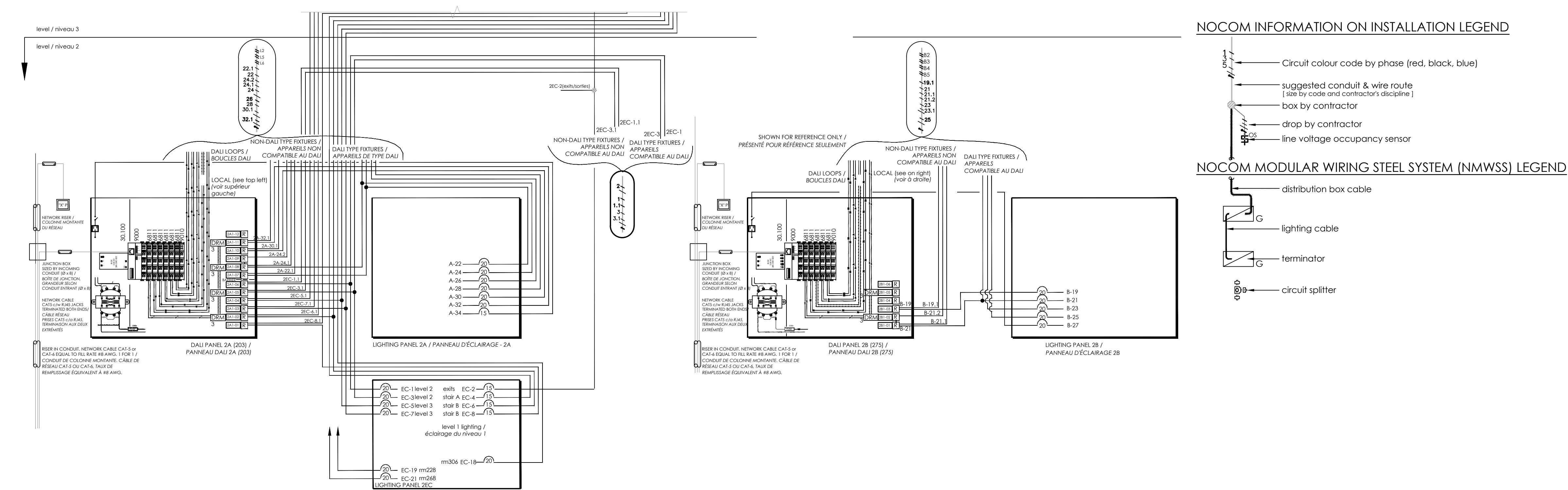
LEVEL 2 - RENOVATION

Designed By	K. Sellathurai November 2021	Conçu par	(yyyy/mm/dd)
Drawn By	A. Tharmakuralajah / M. Tjoa	Dessiné par	(yyyy/mm/dd)
Reviewed By	K. Sellathurai November 2021	Examiné par	(yyyy/mm/dd)
Approved By	J. Discher P.Eng. December 2021	Approuvé par	(yyyy/mm/dd)
Sender	MARTIN BOULAY	Submission	
Project Manager	Administrateur de projets		
Project no.	No. du projet		
	R.102621.002		
Drawing no.	No. du dessin		
	E201		

1. MAINTAIN EXISTING BASE BUILDING FLOURESCENT FIXTURES.
2. MAINTAIN EXISTING BASE BUILDING LIGHTING CONTROLS.
3. MAINTAIN EXISTING FLOURESCENT STRIP LIGHTS.
4. PROVIDE NEW RECESSED DOWN LIGHT, TYPE AS SHOWN IN THE LIGHTING SCHEDULE, CONNECT TO EXISTING CIRCUIT CONTROLS CONNECTED TO THE DALI SYSTEM. REFER TO ELECTRICAL SPECIFICATION DETAILS.
5. PROVIDE NEW DALI LOW VOLTAGE CORRIDOR OCCUPANCY SENSORS CORRIDOR FUNCTION. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX.
6. PROVIDE NEW 2 BUTTON INDUSTRIAL STAINLESS STEEL SWITCHES c/w DALI XC MODULE FOR CONTROL. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
7. PROVIDE NEW ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR IN THE WASHROOM AREA. MODIFY WIRING AS REQUIRED IN THE JUNCTION BOX IN THE CEILING SPACE.

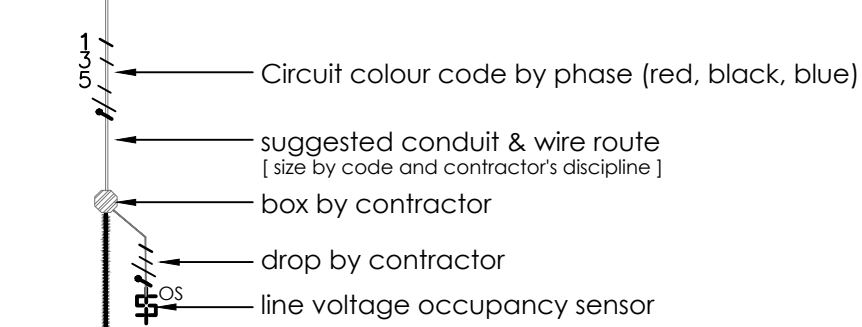


1 LEVEL 2 - RENOVATION LIGHTING PLAN
E201 SCALE: 1 / 100

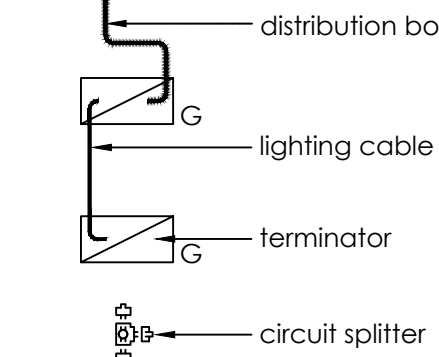


2 LEVEL 2 - EXISTING DALI SYSTEM SINGLE LINE DIAGRAM (FOR REFERENCE ONLY)
E201 SCALE: 1 / 100

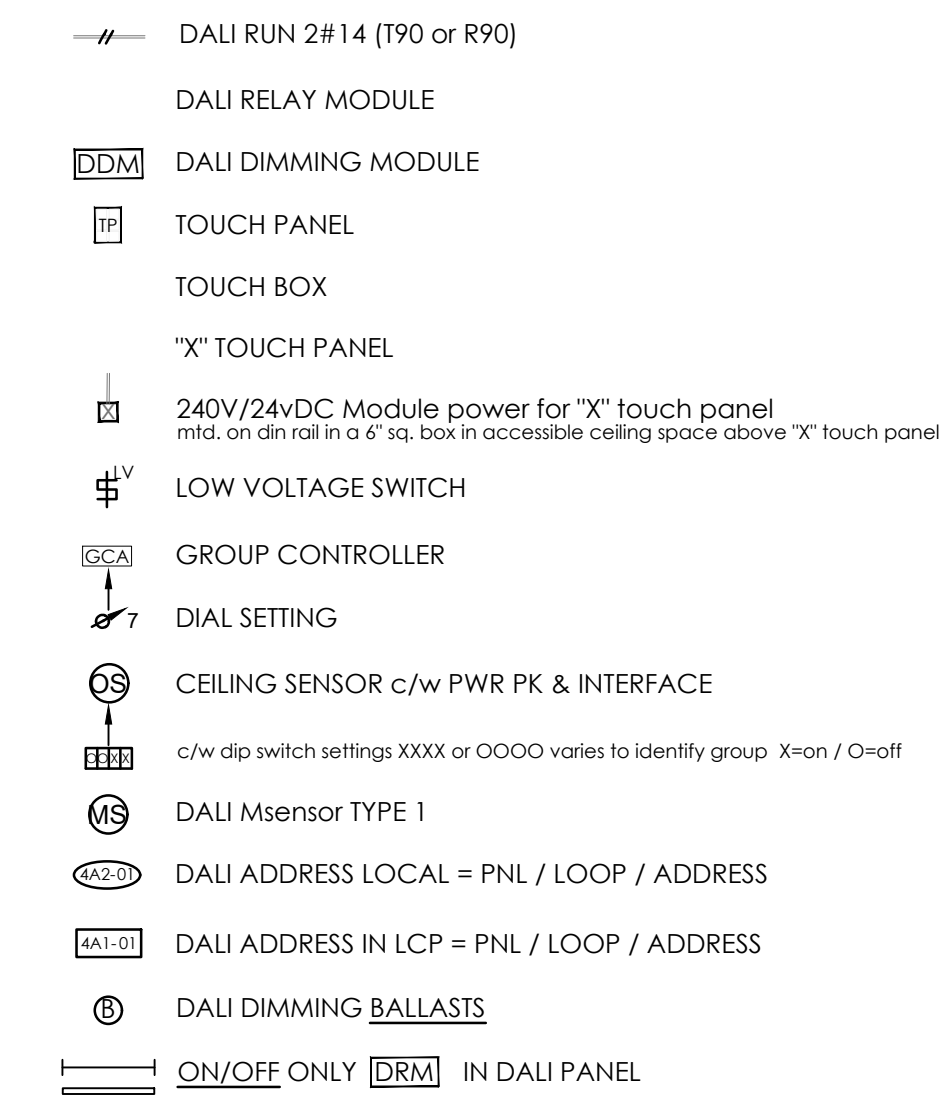
NOCOM INFORMATION ON INSTALLATION LEGEND



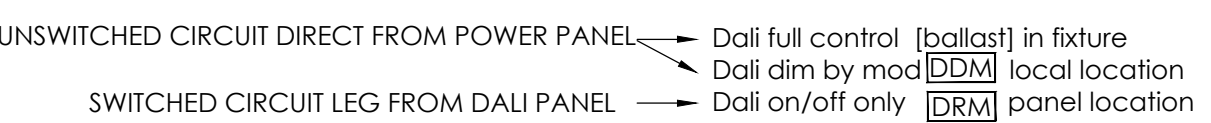
NOCOM MODULAR WIRING STEEL SYSTEM (NMWSS) LEGEND



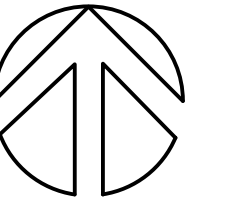
NOCOM DALI SYSTEM LEGEND



FIXTURE TYPES & MEANS OF CONTROL LEGEND



DALI DIMMING DRIVER ON/OFF ONLY DRM
B3



Project North Nord du projet

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1	ISSUED FOR TENDER	2021/12/16
visions	description	date

A detail no.
no. du détail

B location drawing no.
sur dessin no.

C drawing no.
dessin no.

project	projet
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DOWNTOWN BUILDING LED LIGHTING UPGRADE

drawing	dessin
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LEVEL 3 - RENOVATION

designed By	Conçu par
-------------	-----------

November 2021 (yyyy/mm/dd)

Drawn By A. Tharmakalurajah / M. Tjoa Dessine par

Reviewed By	Examined per
-------------	--------------

November 2021 (www/mm/dd)

Approved By _____ Approuvé par _____

Date: December 2021 (yyyy/mm/dd)

MARTIN BOULAY

Project Manager	Administrateur de projets
-----------------	---------------------------

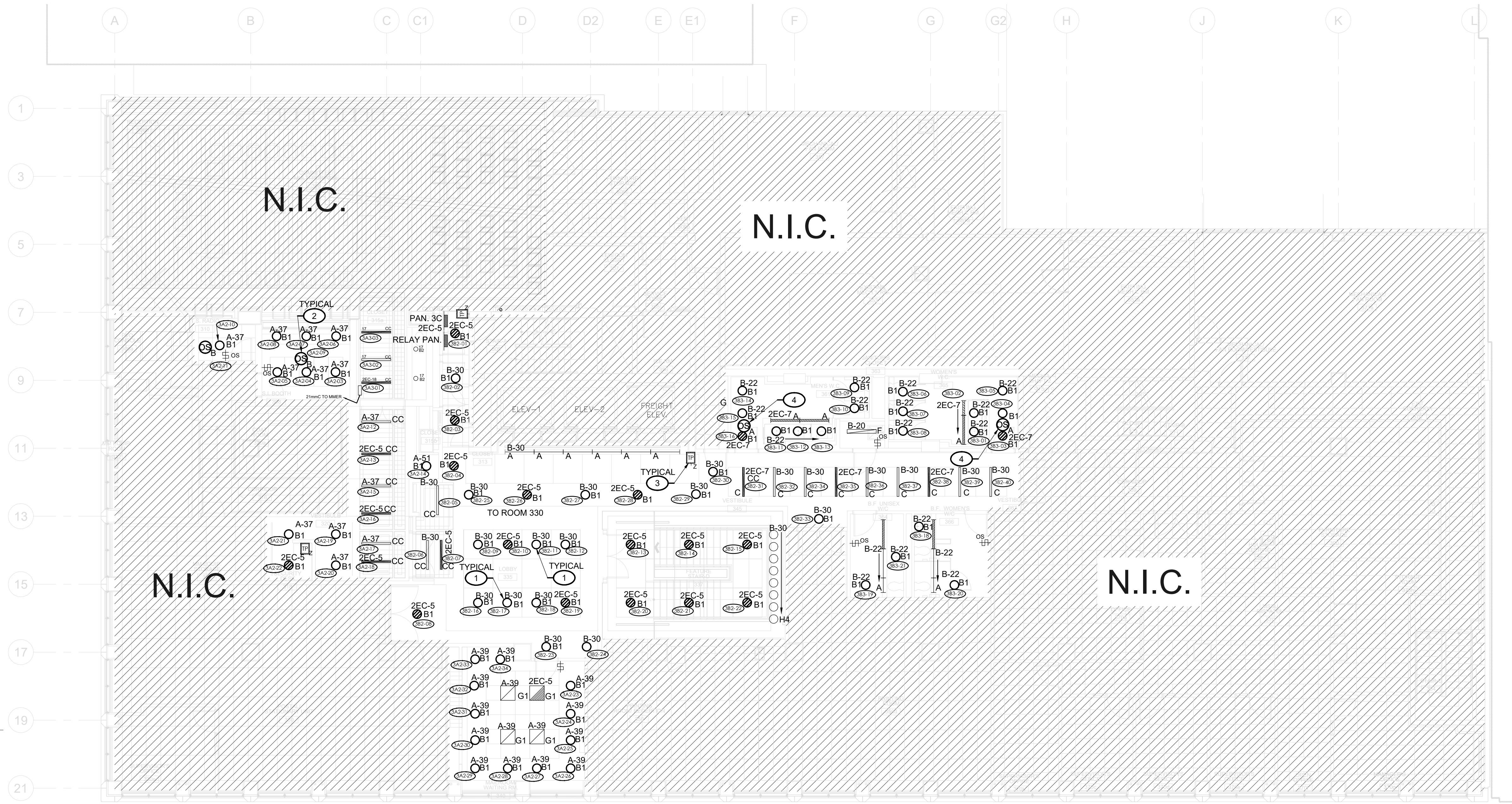
B-1000001-000

<div style="text-align: center;"> PT102021002 </div>

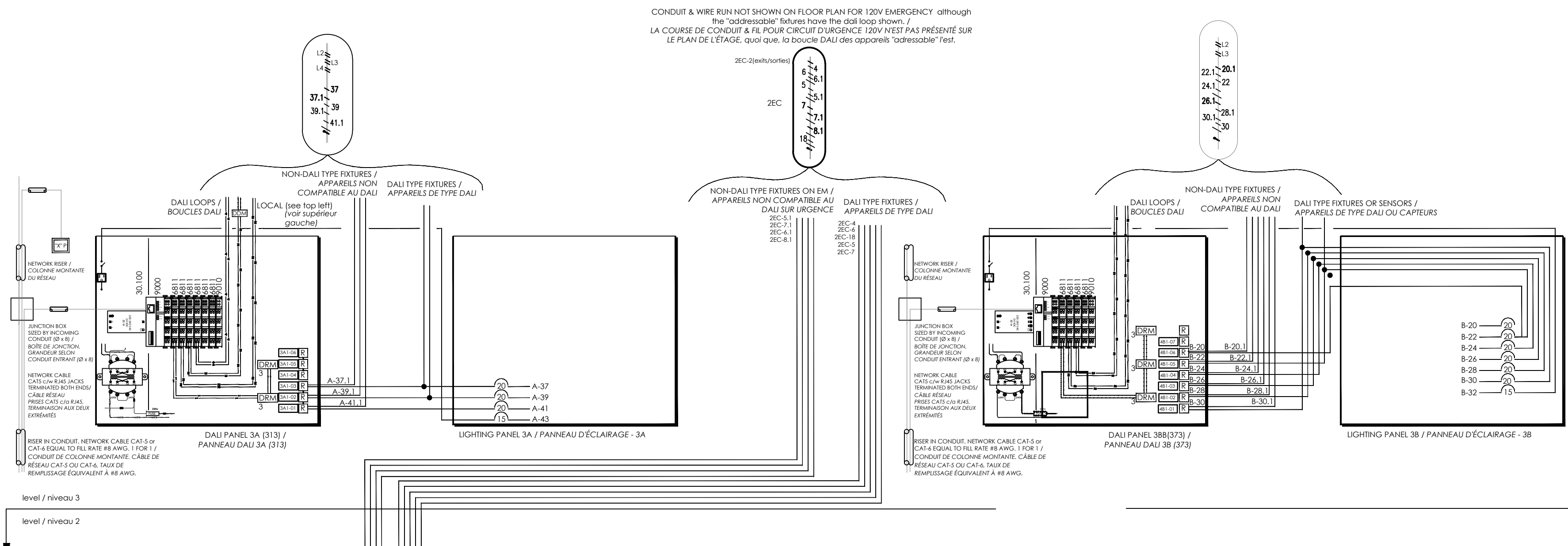
E202

DRAWING NOTES:

1. PROVIDE NEW RECESSED DOWN LIGHT FIXTURE, TYPE B1 AS SHOWN IN THE LIGHTING SCHEDULE. CONNECT TO EXISTING CIRCUIT AND CONTROLS CONNECTED TO THE DALI SYSTEM. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
2. PROVIDE NEW DALI LOW VOLTAGE CORRIDOR OCCUPANCY SENSORS CORRIDOR FUNCTION. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX.
3. PROVIDE NEW 2 BUTTON INDUSTRIAL STAINLESS STEEL SWITCHES *only* DALI XC MODULE FOR CONTROL. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
4. PROVIDE NEW ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR IN THE WASHROOM AREA. MODIFY WIRING AS REQUIRED IN THE JUNCTION BOX IN CEILING SPACE.

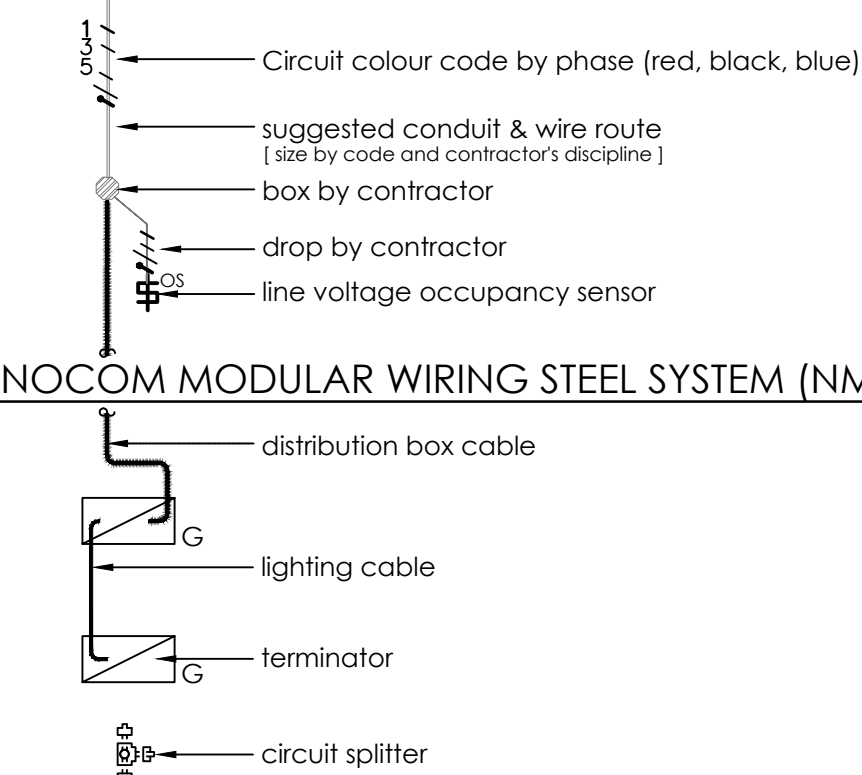


1 LEVEL 3 - RENOVATION LIGHTING PLAN

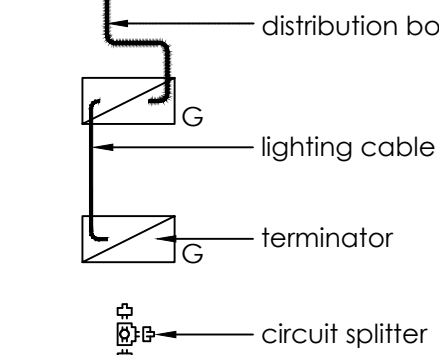


2 LEVEL 3 - EXISTING DALI SYSTEM SINGLE LINE DIAGRAM (FOR REFERENCE ONLY)
E202 NOT TO SCALE














NOCOM INFORMATION ON INSTALLATION LEGEND



NOCOM MODULAR WIRING STEEL SYSTEM (NMWSS) LEGEND



NOCOM DALI SYSTEM LEGEND

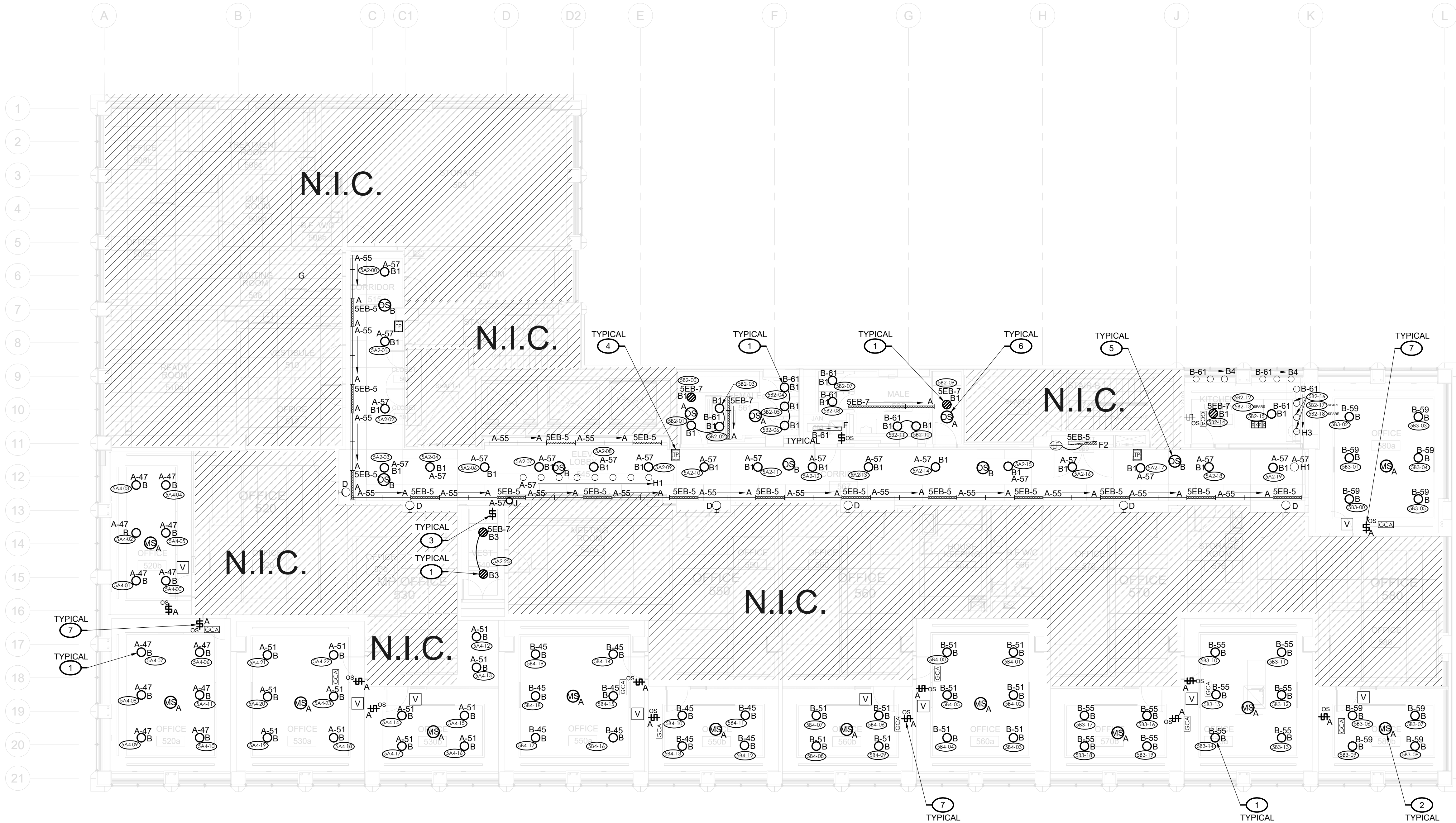
-  DALI RUN 2# 14 (T90 or R90)
- DALI RELAY MODULE
-  DDM DALI DIMMING MODULE
-  TP TOUCH PANEL
- TOUCH BOX
- "X" TOUCH PANEL
-  D 240V/24VDC Module power for "X" touch panel
note: on dn rail in a 6" sq. box in accessible ceiling space above "X" touch panel
-  V LOW VOLTAGE SWITCH
-  SCA GROUP CONTROLLER
-  Dial SETTING
-  CS CEILING SENSOR c/w PWR PK & INTERFACE
- c/w dip switch settings XXXX or OOOO varies to identify group Xion / OnOff*
-  MS DALI Msensor TYPE 1
-  4x2 DALI ADDRESS LOCAL = PAN. / LOOP / ADDRESS
-  4x1 DALI ADDRESS IN LCP = PAN. / LOOP / ADDRESS
-  Ballast DALI DIMMING BALLASTS
-  On/OFF only DRM IN DALI PANEL

FIXTURE TYPES & MEANS OF CONTROL LEGEND

- UNSWITCHED CIRCUIT DIRECT FROM POWER PANEL → Dali full control [ballast] in fixture
 → Dali dim by mod [DDM] local location
 SWITCHED CIRCUIT LEG FROM DALI PANEL → Dali on/off only [DRM] panel location

DALI DIMMING DRIVER
B
B1

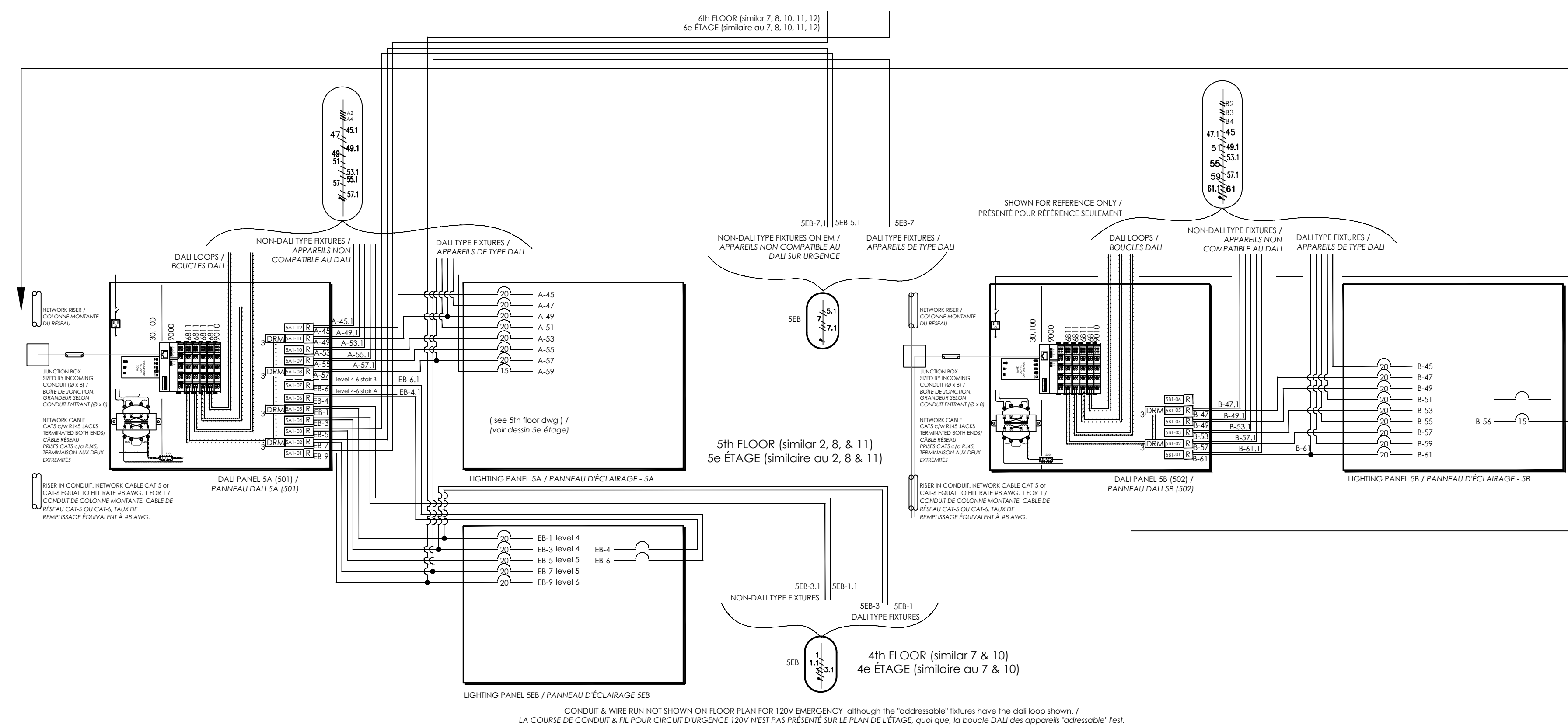
ON/OFF ONLY ☐ DRM



- DRAWING NOTES:**
- 1 PROVIDE NEW RECESSED DOWN LIGHT, TYPE AS SHOWN IN THE LIGHTING SCHEDULE. CONNECT TO EXISTING ELECTRICAL CIRCUIT AND CONTROLS CONNECTED TO THE DALI SYSTEM. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
 - 2 PROVIDE NEW OCCUPANCY SENSORS FOR OFFICE SUITES c/w DAYLIGHT HARVESTING TECHNOLOGY AND POWERED BY DALI BUS. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX IN THE ADMIN AREA OF THE OFFICES.
 - 3 PROVIDE NEW WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH. PROVIDE ALL ASSOCIATED CONDUITS AND WIRING FOR TYPE B3 LIGHT FIXTURES.
 - 4 PROVIDE NEW 2 BUTTON INDUSTRIAL STAINLESS STEEL SWITCHES c/w DALI XC MODULE FOR CONTROL. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
 - 5 PROVIDE NEW DALI LOW VOLTAGE CORRIDOR OCCUPANCY SENSORS CORRIDOR FUNCTION. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX.
 - 6 PROVIDE NEW ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR IN THE WASHROOM AREA. MODIFY WIRING AS REQUIRED IN THE JUNCTION BOX IN THE CEILING SPACE.
 - 7 PROVIDE NEW LOW VOLTAGE LIGHT SWITCHES AS GROUP CONTROLLER FOR OFFICES AND CONNECT TO THE EXISTING WIRING AND CONTROLS.

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1 LEVEL 5 - RENOVATION LIGHTING PLAN
E204 SCALE: 1 / 100



NOCOM DALI SYSTEM LEGEND

- DALI RUN 2#14 (T90 or R90)
- DALI RELAY MODULE
- DALI DIMMING MODULE
- TOUCH PANEL
- TOUCH BOX
- LOW VOLTAGE SWITCH
- GROUP CONTROLLER
- DIAL SETTING
- CEILING SENSOR c/w PWR PK & INTERFACE
- c/w dip switch settings XXXX or OOOO varies to identify group X=on / O=off
- DALI Msensor TYPE 1
- DALI ADDRESS LOCAL = PAN. / LOOP / ADDRESS
- DALI ADDRESS IN LCP = PAN. / LOOP / ADDRESS
- DALI DIMMING BALLASTS
- ON/OFF ONLY [DRM] IN DALI PANEL

NOCOM INFORMATION ON INSTALLATION LEGEND

- Circuit colour code by phase (red, black, blue)
- suggested conduit & wire route [state by code and contractor's discipline]
- box by contractor
- drop by contractor
- line voltage occupancy sensor

NOCOM MODULAR WIRING STEEL SYSTEM (NMWSS) LEGEND

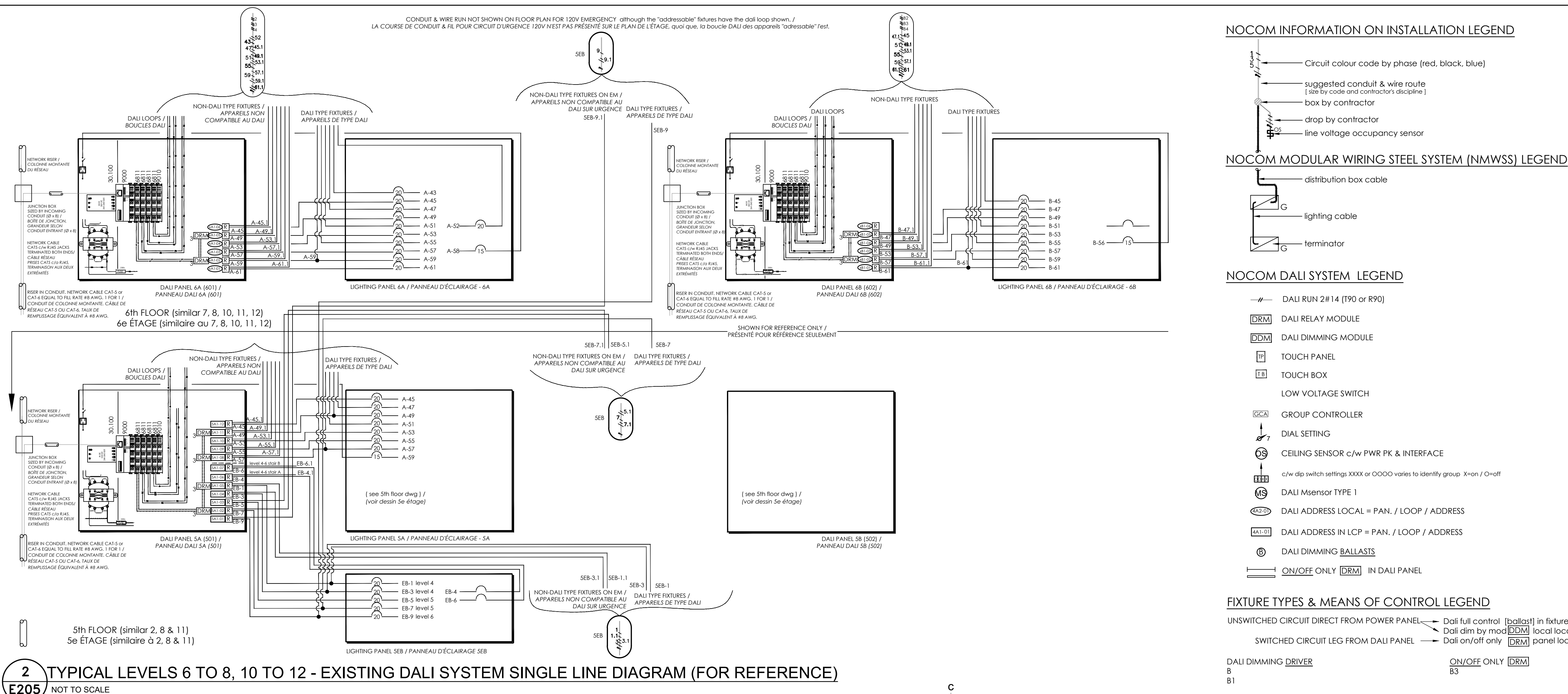
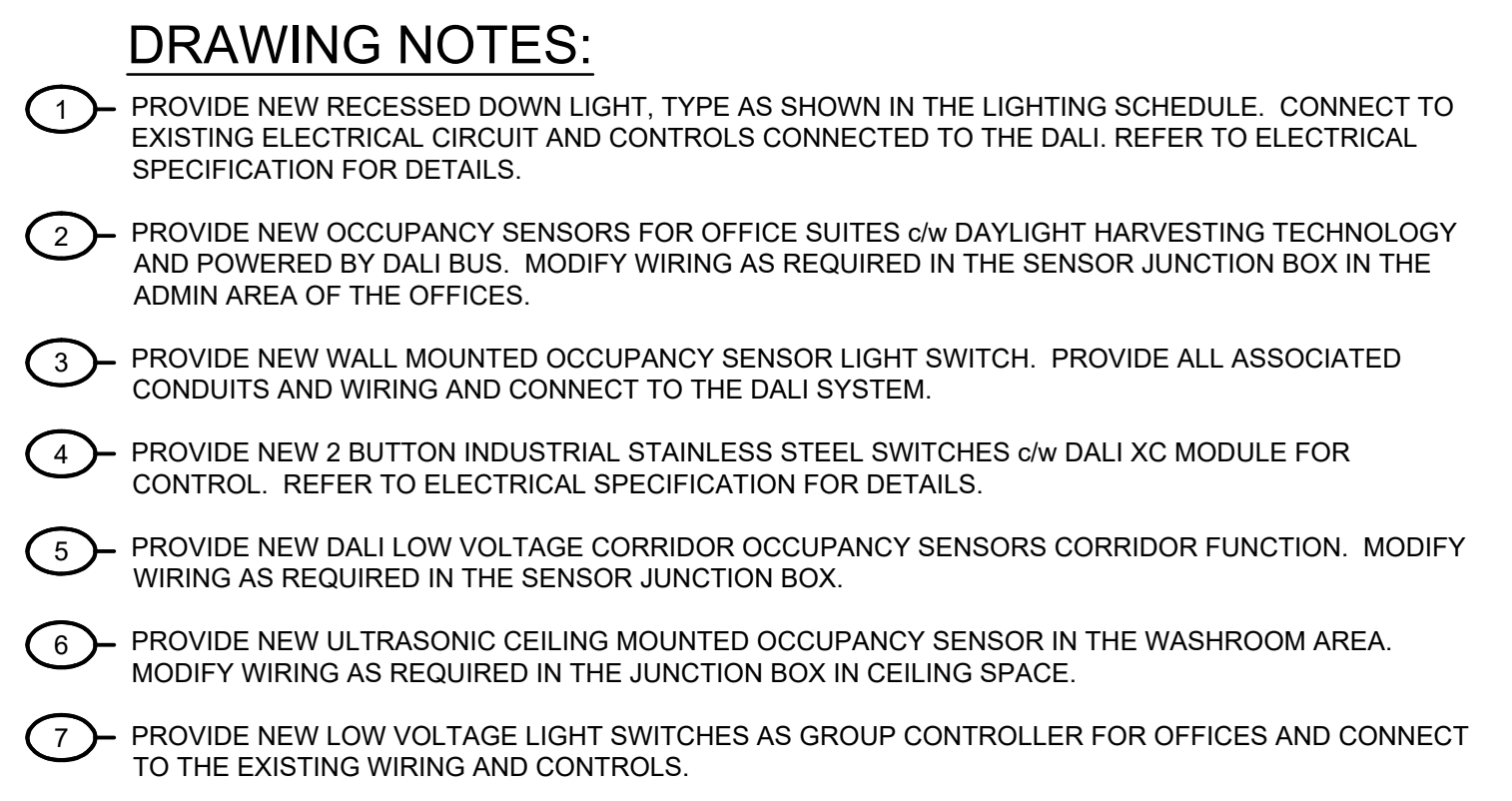
- distribution box cable
- lighting cable
- terminator

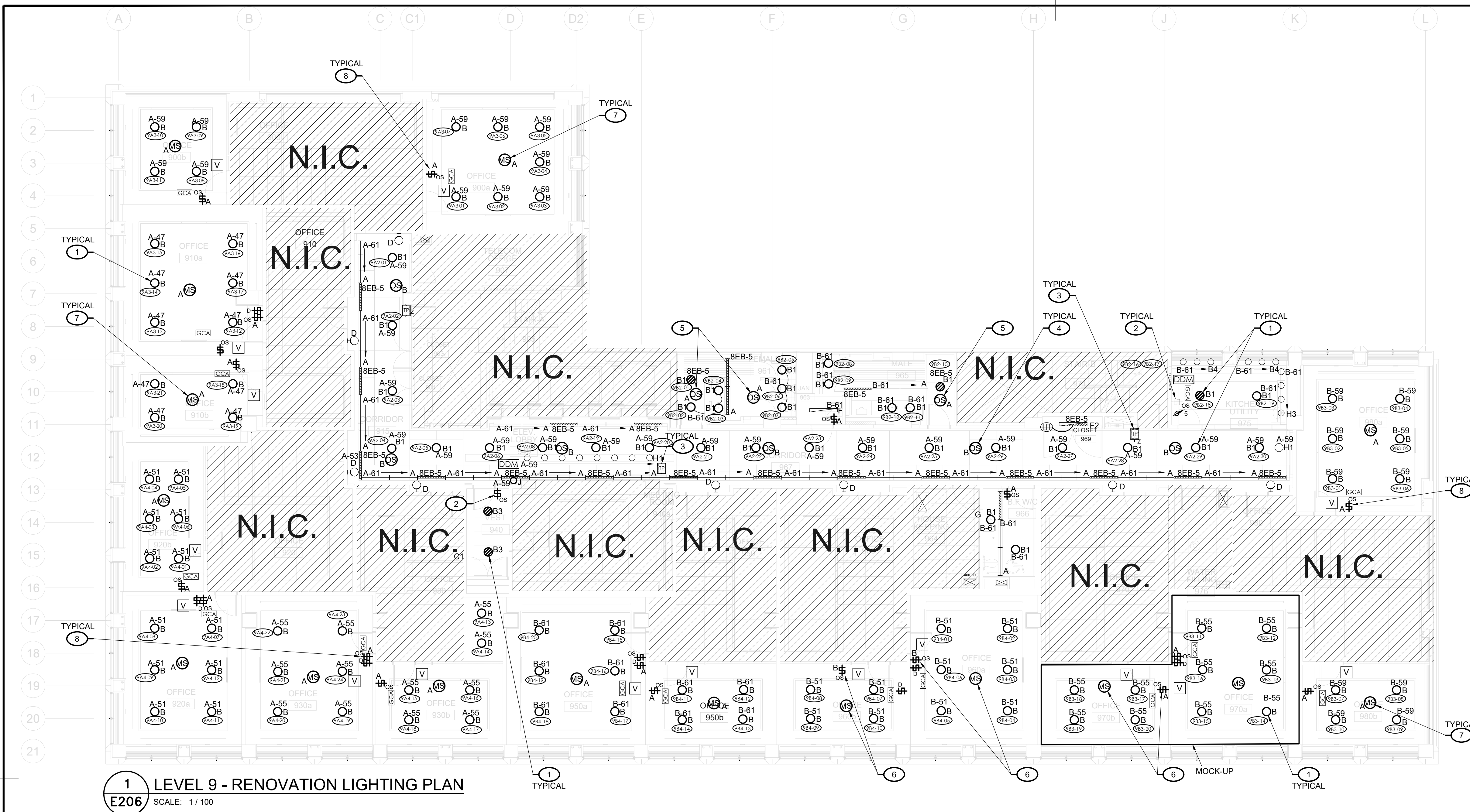
FIXTURE TYPES & MEANS OF CONTROL LEGEND

- UNSWITCHED CIRCUIT DIRECT FROM POWER PANEL
- SWITCHED CIRCUIT LEG FROM DALI PANEL
- DALI full control [ballast] in fixture
- Dali dim by mod [DRM] local location
- Dali on/off only [DRM] panel location
- DALI DIMMING DRIVER
- ON/OFF ONLY [DRM]

2 LEVEL 5 - EXISTING DALI SYSTEM SINGLE LINE DIAGRAM (FOR REFERENCE ONLY)
E204 NOT TO SCALE

1	ISSUED FOR TENDER	2021/12/16
revisions	description	date
A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	
project	project	
DOWNTOWN BUILDING LED LIGHTING UPGRADE		
drawing	dessin	
LEVEL 5 - RENOVATION		
Designed By	Conçu par	
Date	November 2021	(yyyy/mm/dd)
Drawn By	Dessiné par	
Date	November 2021	(yyyy/mm/dd)
Reviewed By	Examiné par	
Date	November 2021	(yyyy/mm/dd)
Approved By	Approuvé par	
Date	December 2021	(yyyy/mm/dd)
Tender	MARTIN BOULAY	Submission
Project Manager	Administrateur de projets	
Project no.	No. du projet	
R.102621.002		
Drawing no.	No. du dessin	
E204		





DRAWING NOTES:

- 1 PROVIDE NEW RECESSED DOWNLIGHT, TYPE AS SHOWN IN THE LIGHTING SCHEDULE. CONNECT TO EXISTING ELECTRICAL CIRCUIT AND CONTROLS CONNECTED TO THE DALI SYSTEM. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
- 2 PROVIDE NEW WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH. PROVIDE ALL ASSOCIATED CONDUITS AND WIRING AND CONNECT TO THE DALI SYSTEM.
- 3 PROVIDE NEW 2 BUTTON INDUSTRIAL STAINLESS STEEL SWITCHES c/w DALI XC MODULE FOR CONTROL. REFER TO ELECTRICAL SPECIFICATION FOR DETAILS.
- 4 PROVIDE NEW DALI LOW VOLTAGE CORRIDOR OCCUPANCY SENSORS CORRIDOR FUNCTION. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX.
- 5 PROVIDE NEW ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR IN THE WASHROOM AREA. MODIFY WIRING AS REQUIRED IN THE JUNCTION BOX IN THE CEILING SPACE.
- 6 PROVIDE RF REMOTE SWITCHES AND WIRELESS SELF-POWERED LOW PROFILE OCCUPANCY SENSORS IN SUITE 900 c/w DALI XC MODULE CONNECTED TO A LOW VOLTAGE RECEIVER.
- 7 PROVIDE NEW OCCUPANCY SENSORS FOR OFFICE SUITES c/w DAYLIGHT HARVESTING TECHNOLOGY AND POWERED BY DALI BUS. MODIFY WIRING AS REQUIRED IN THE SENSOR JUNCTION BOX IN THE ADMIN AREA OF THE MP'S OFFICES.
- 8 PROVIDE NEW LOW VOLTAGE LIGHT SWITCHES AS GROUP CONTROLLER FOR OFFICES AND CONNECT TO THE EXISTING WIRING AND CONTROLS.

Public Services and Procurement Canada / Services publics et Approvisionnement Canada

Real Property Branch / Direction générale des biens immobiliers

Project North
Nord du projet

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
1	ISSUED FOR TENDER	2021/12/16

A

C

A detail no.
no. du détail
B location drawing no.
sur dessin no.
C drawing no.
dessin no.

A

B

C

project

project

DOWNTOWN BUILDING
LED LIGHTING UPGRADE

drawing

dessin

LEVEL 9 - RENOVATION

Designed By	K. Sellathurai	Conçu par	
Date	November 2021	(yyyy/mm/dd)	
Drawn By	A. Tharmakuralajah / M. Tjoa	Dessiné par	
Date	November 2021	(yyyy/mm/dd)	
Reviewed By	K. Sellathurai	Examiné par	
Date	November 2021	(yyyy/mm/dd)	
Approved By	J. Discher P.Eng.	Approuvé par	
Date	December 2021	(yyyy/mm/dd)	
Tender	MARTIN BOULAY	Submission	
Project Manager	Administrateur de projets		
Project no.	No. du projet		
	R.102621.002		
Drawing no.	No. du dessin		
	E206		

NOCOM INFORMATION ON INSTALLATION LEGEND

NOCOM MODULAR WIRING STEEL SYSTEM (NMWSS) LEGEND

NOCOM DALI SYSTEM LEGEND

- DALI RUN 2# 14 (T90 or R90)
- DRM DALI RELAY MODULE
- DDM DALI DIMMING MODULE
- TM TOUCH PANEL
- TB TOUCH BOX
- LOW VOLTAGE SWITCH
- GCA GROUP CONTROLLER
- DIAL SETTING
- CS CEILING SENSOR c/w PWR PK & INTERFACE
- c/w dip switch settings: XXXXX or OOOO varies to identify group. X=on / O=off
- MS DALI Msensor TYPE 1
- LA1-01 DALI ADDRESS LOCAL = PAN. / LOOP / ADDRESS
- LA1-02 DALI ADDRESS IN LCP = PAN. / LOOP / ADDRESS
- DL DALI DIMMING BALLASTS
- ON/OFF ONLY [DRM] IN DALI PANEL

FIXTURE TYPES & MEANS OF CONTROL LEGEND

- UNSWITCHED CIRCUIT DIRECT FROM POWER PANEL
- SWITCHED CIRCUIT LEG FROM DALI PANEL
- Dali full control [ballast] in fixture
- Dali dim by mod [DDM] local location
- Dali on/off only [DRM] panel location
- DALI DIMMING DRIVER
- B1
- ON/OFF ONLY [DRM] B3

PWGSC B1 (1000 x 707) Drawing name: O:\A\A001000-A001499\A001173_Valour Building - LED Lighting Upgrade\400\450_Electrical\E106_E206.dwg Dec 16, 2021 - 11:48am

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

1 ISSUED FOR TENDER 2021/12/16

revisions	description	date
A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project projet

DOWNTOWN BUILDING
LED LIGHTING UPGRADE

drawing dessin

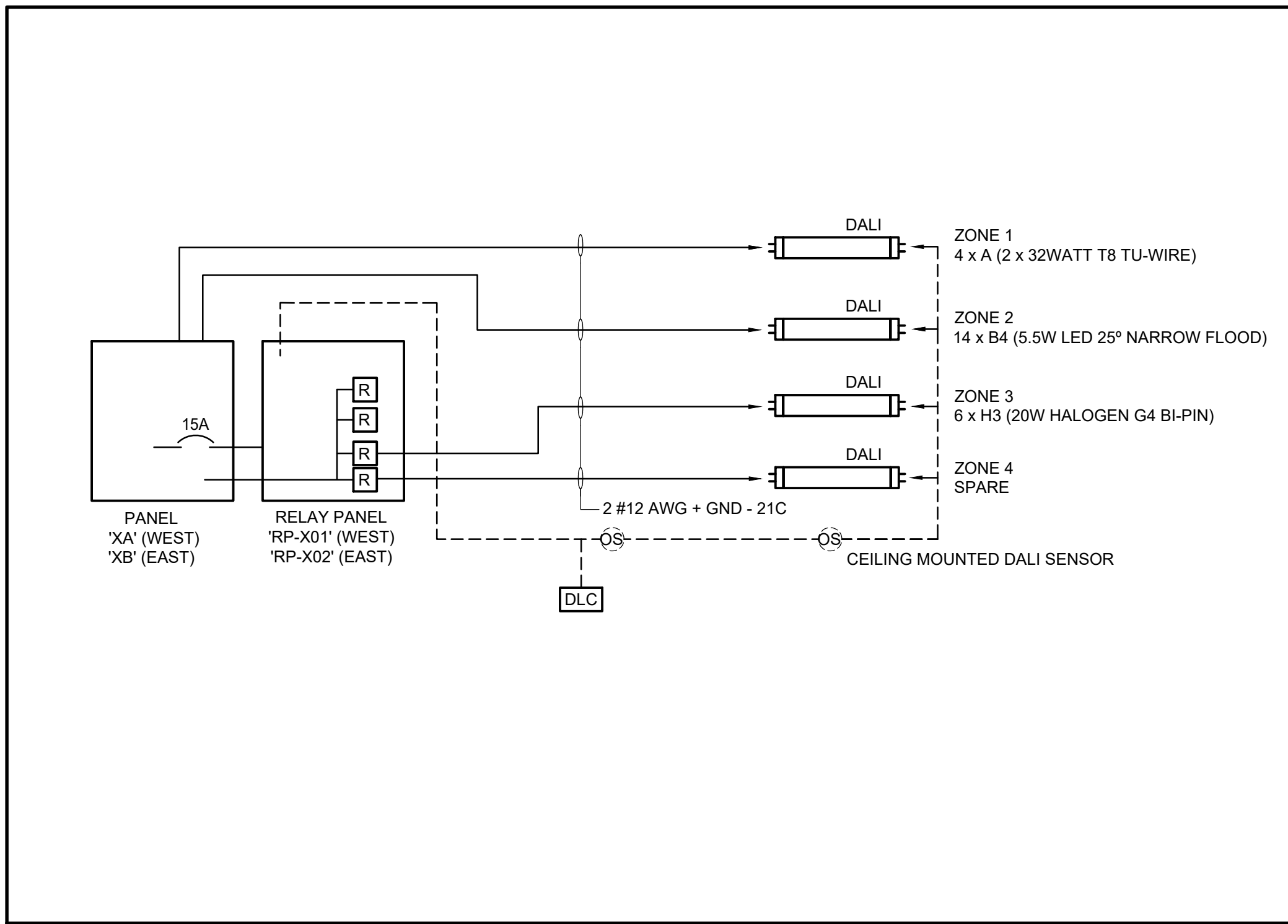
LIGHTING CONTROL
WIRING DIAGRAMS

Designed By K. Sellathurai November 2021	Conçu par (yyyy/mm/dd)
Drawn By A. Tharmakurajah / M. Tjoa November 2021	Dessiné par (yyyy/mm/dd)
Reviewed By K. Sellathurai November 2021	Examiné par (yyyy/mm/dd)
Approved By J. Discher P.Eng. December 2021	Approuvé par (yyyy/mm/dd)
Tender MARTIN BOULAY	Soumission

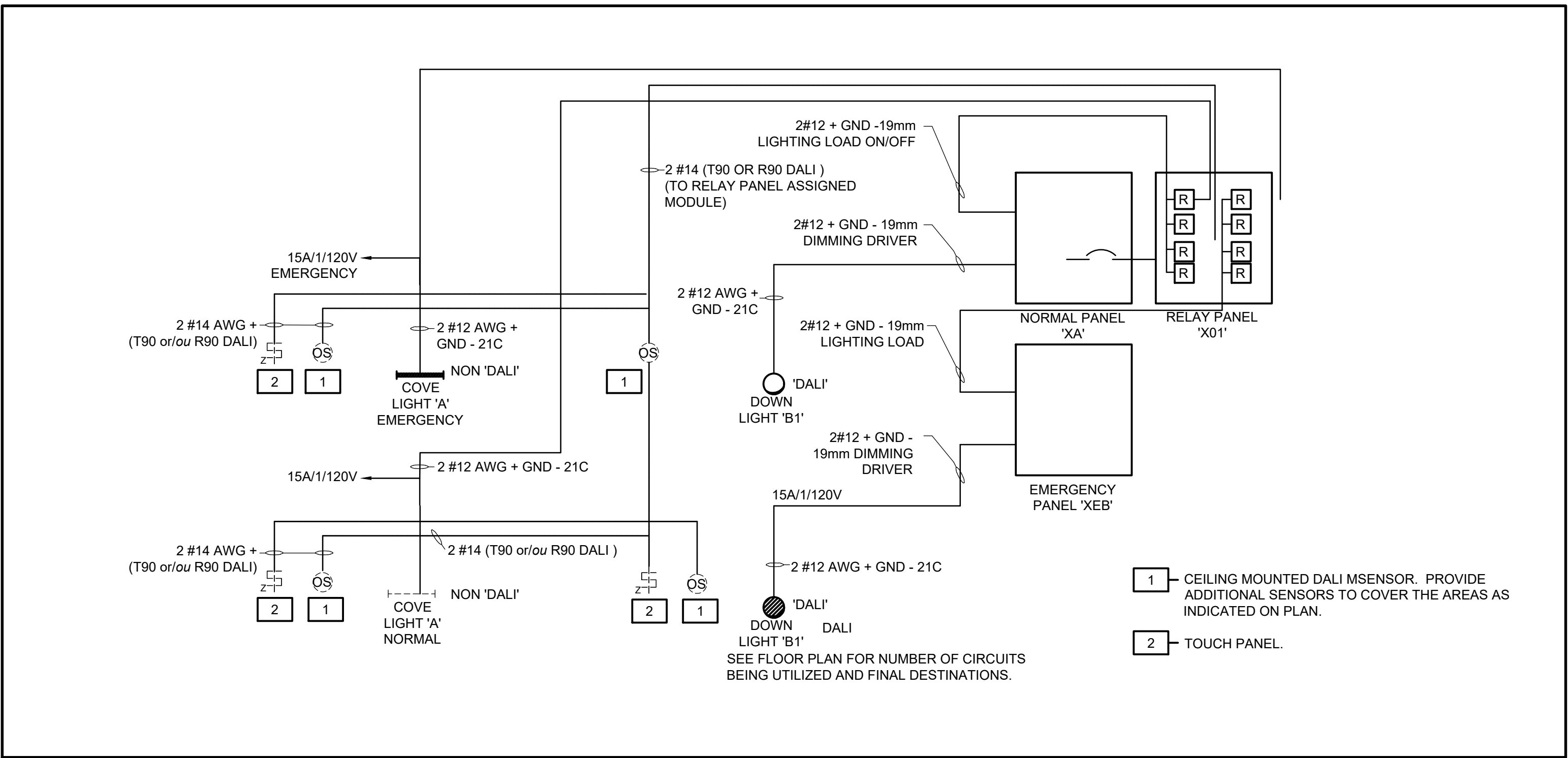
Project Manager Administrateur de projets
Project no. No. du projet

R.102621.002

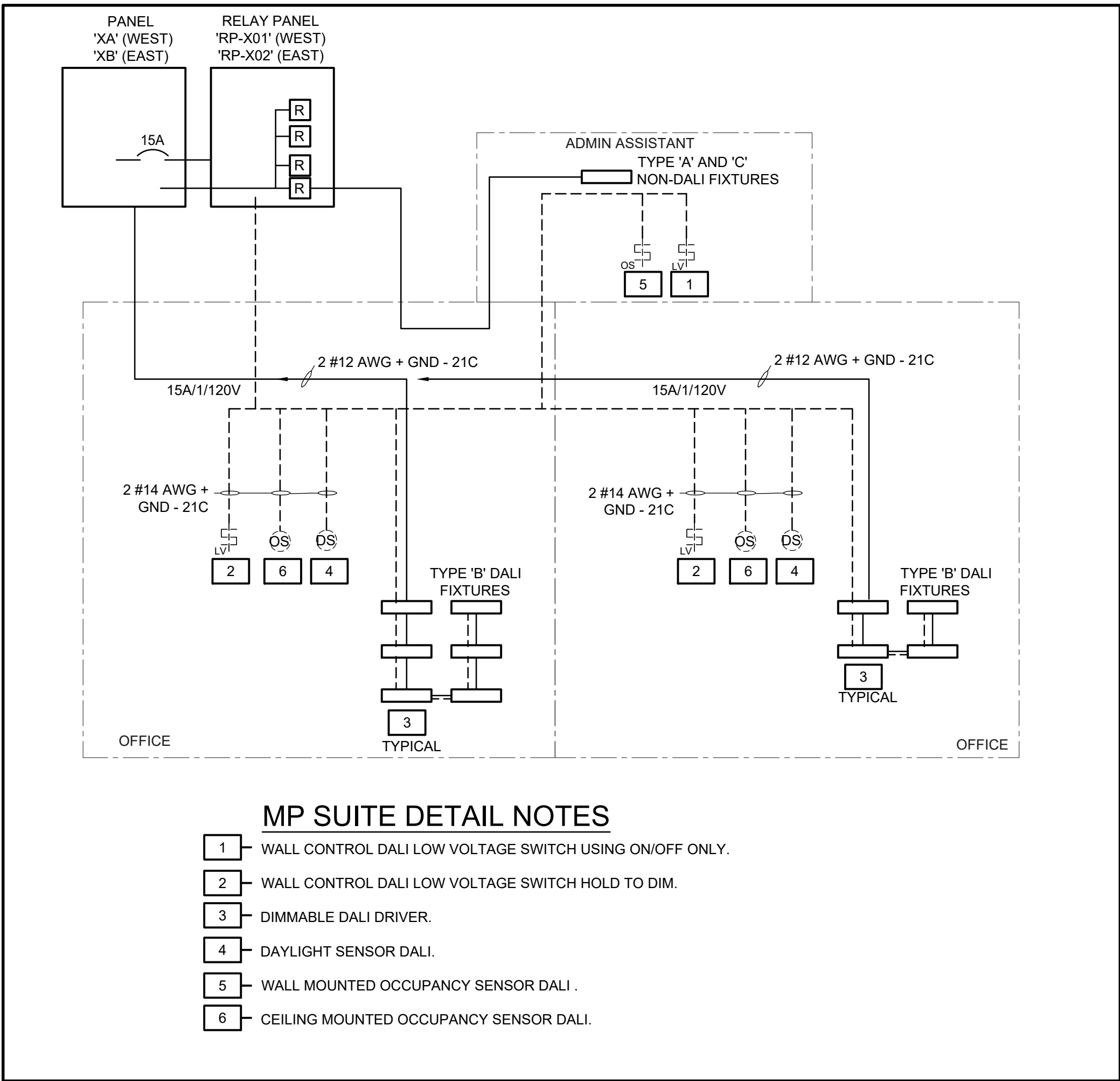
Drawing no. No. du dessin
E300



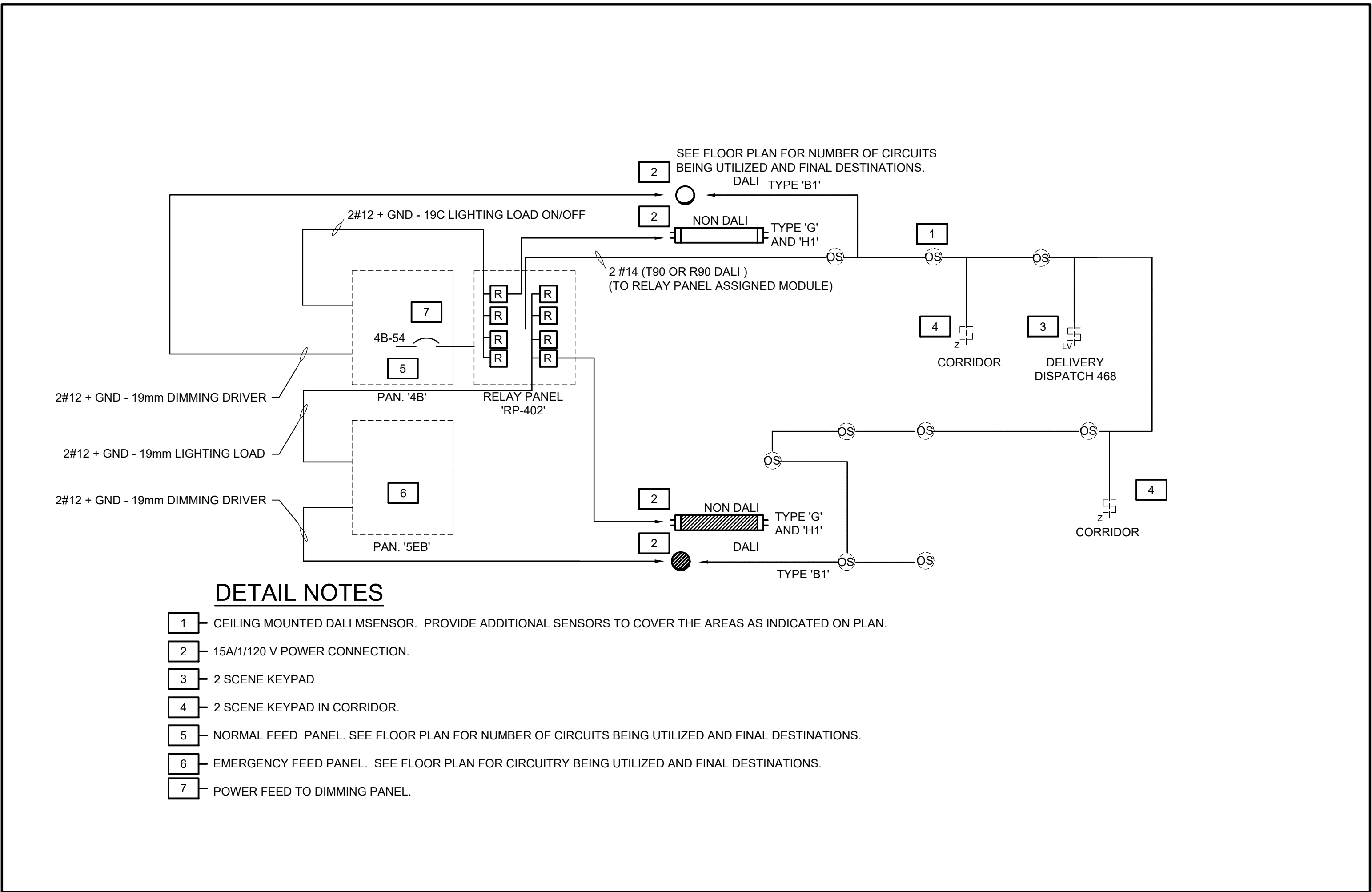
1 TYPICAL EXISTING MEETING ROOM WIRING DETAIL (REFERENCE ONLY)
E300 NOT TO SCALE



2 LEVELS 5-12 EXISTING CORRIDOR LIGHTING CONTROL WIRING DETAIL (REFERENCE ONLY)
E300 NOT TO SCALE



3 TYPICAL EXISTING OFFICE WIRING DETAIL (REFERENCE ONLY)
E300 NOT TO SCALE



4 LEVEL 4 - EXISTING CORRIDOR LIGHTING CONTROL WIRING DETAIL (REFERENCE ONLY)
E300 NOT TO SCALE