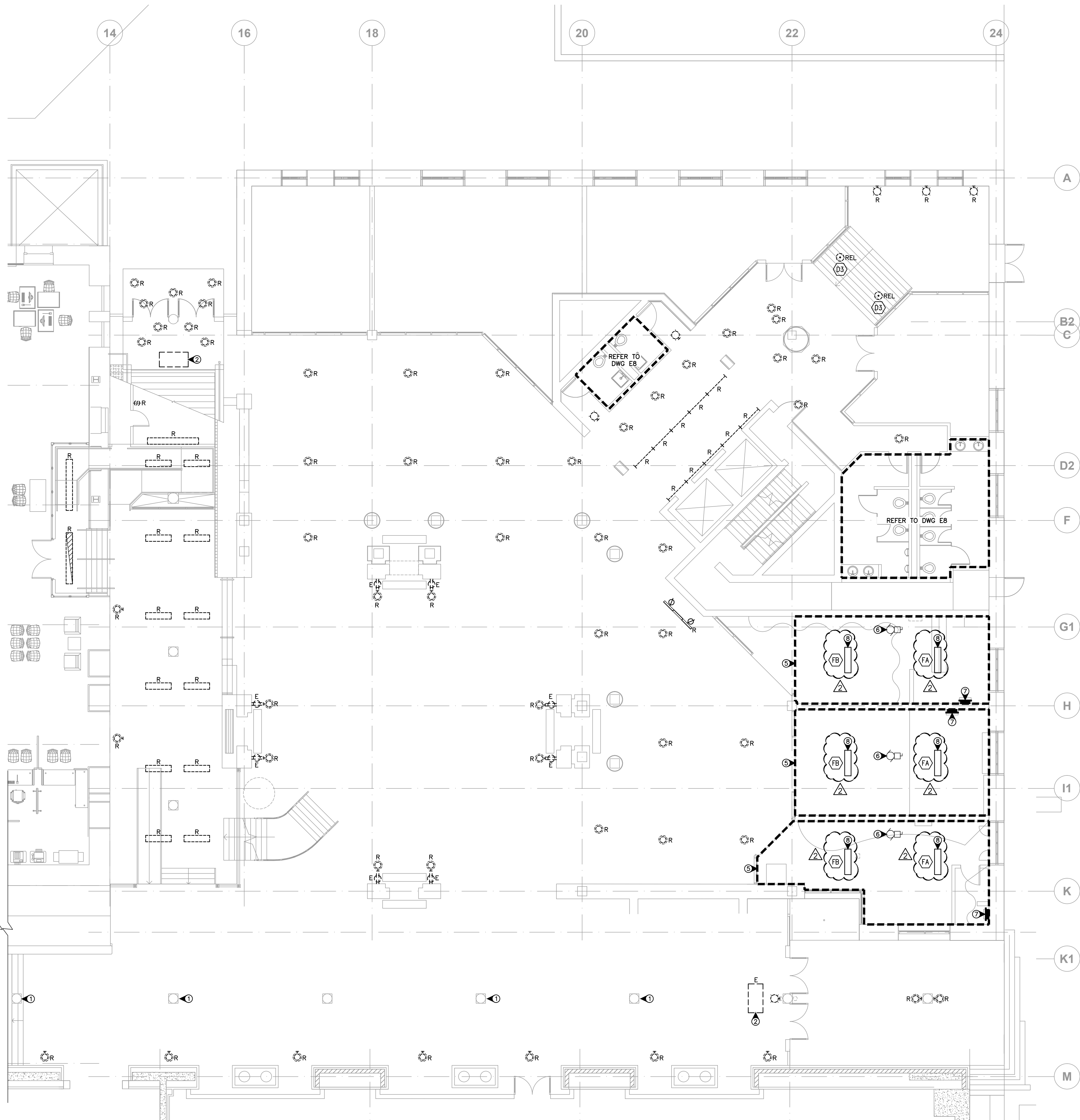


- A. ALL CIRCUITS AND WIRING FOR EXISTING LIGHT FIXTURES THAT ARE BEING REMOVED SHALL BE RETAINED FOR CONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE THE DESIGN INTENT. NEW WIRING IS REQUIRED TO BE INSTALLED FOR NEW PANELS AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- B. INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW PANELS. PROVIDE NEW SPECIFIED PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BEHIND LIGHT FIXTURES TO NEW PANELS. MINIMIZE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- C. ALLOW POSITIONING AND RELOCATION OF DAYLIGHT SENSORS WITHIN 20 METERS FROM LOCATIONS SHOWN ON DRAWINGS.
- D. FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- E. FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER COMPLETION OF INSTALLATION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- F. ALL EXPOSED CONDUIT RUNS ARE COORDINATED AND ROUTING REVIEWED BY DEPARTMENT REPRESENTATIVES PRIOR TO INSTALLATIONS.

- ① LIGHT FIXTURES AND MOUNTING ASSEMBLIES MOUNTED ON COLUMNS SHALL BE DISCONNECTED AND REMOVED. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- ② DISCONNECT AND REMOVE EXISTING FORCE FLOW HEATER. REMOVE WITH EXISTING FORCE FLOW HEATER. REMOVE ALL WIRING AND ACCESSIBLE CONDUITS BACK TO THE SOURCE AND MAKE SAFE. DISPOSE REMOVED FORCE FLOW HEATER.
- ③ DISCONNECT AND REMOVE EXISTING TRACK LIGHTING. TURN OVER REMOVED FIXTURES TO DEPARTMENTAL REPRESENTATIVE.
- ④ DISCONNECT AND REMOVE EXISTING LIGHTING WITHIN DISPLAY CASE. TURN OVER REMOVED FIXTURES TO DEPARTMENTAL REPRESENTATIVE.
- ⑤ DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES FOR REMOVED DISPLAY CASE. TURN OVER REMOVED FIXTURES TO DEPARTMENTAL REPRESENTATIVE.
- ⑥ EXISTING FAN COIL TO REMAIN AS-IS.
- ⑦ EXISTING TENANT PANELS TO REMAIN DURING DEMOLITION. WIRING TO EXISTING LIGHTING AND POWER WITHIN THE TENANT SPACE TO BE REMOVED.
- ⑧ SUPPLY AND INSTALL NEW INDUSTRIAL FLUORESCENT FIXTURE C/W 1-54W TSHO LAMPS & WIREGUARD IN THIS LOCATION FOR DEMOLITION LIGHTING AFTER DEMOLITION. CONNECT TO EXISTING AVAILABLE LIGHTING C/T IN THAT AREA. MINIMUM STANDARD FOR TYPE IFA FIXTURE BE COPPER LIGHTING METALLUX (4'-SFF-1-545-120-EBTIN). MINIMUM STANDARD FOR TYPE IFB FIXTURE BE COPPER LIGHTING METALLUX WITH 150W ENERGY BATTERY (4'-SFF-1-545-120-ELSHO-EBTIN).



1 PHASE 2 DEMOLITION PLAN
SCALE: 1:100

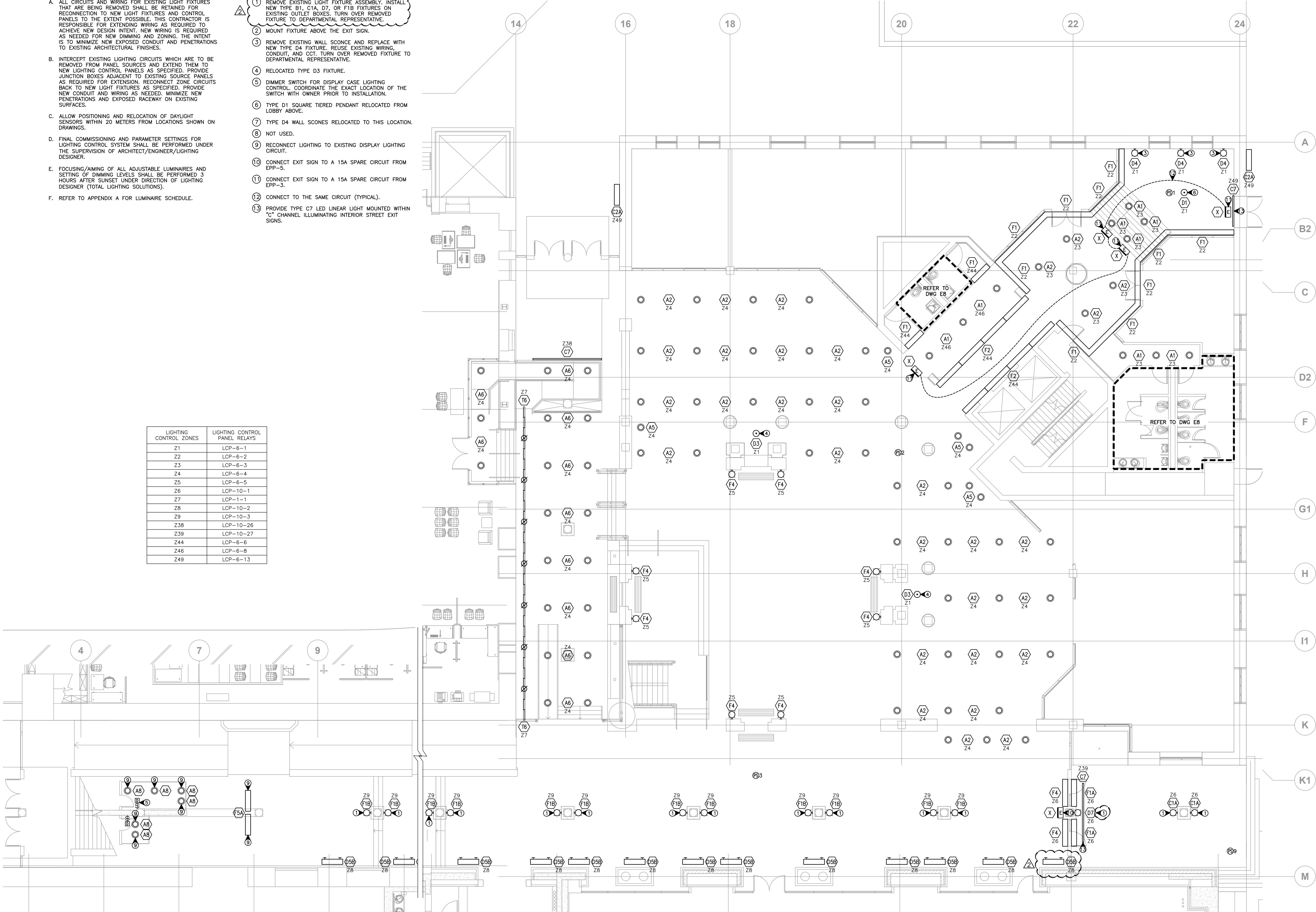
GENERAL NOTES:

- A. ALL CIRCUITS AND WIRING FOR EXISTING LIGHT FIXTURES THAT ARE BEING REMOVED SHALL BE RETAINED FOR RECONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- B. INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW LIGHTING CONTROL PANELS AS SPECIFIED. PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BACK TO NEW LIGHT FIXTURES AS SPECIFIED. PROVIDE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- C. ALLOW POSITIONING AND RELOCATION OF DAYLIGHT SENSORS WITHIN 20 METERS FROM LOCATIONS SHOWN ON DRAWINGS.
- D. FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- E. FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER SUNSET UNDER DIRECTION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- F. REFER TO APPENDIX A FOR LUMINAIRE SCHEDULE.


DRAWING KEY NOTES:

- 1 REMOVE EXISTING LIGHT FIXTURE ASSEMBLY. INSTALL NEW TYPE B1, C1A, D7, OR F1B FIXTURES ON EXISTING OUTLET BOXES. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- 2 MOUNT FIXTURE ABOVE THE EXIT SIGN.
- 3 REMOVE EXISTING WALL SCONCE AND REPLACE WITH NEW TYPE D4 FIXTURE. REUSE EXISTING WIRING, CONDUIT, AND CCT. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- 4 RELOCATED TYPE D3 FIXTURE.
- 5 DIMMER SWITCH FOR DISPLAY CASE LIGHTING CONTROL. COORDINATE THE EXACT LOCATION OF THE SWITCH WITH OWNER PRIOR TO INSTALLATION.
- 6 TYPE D1 SQUARE TIERED PENDANT RELOCATED FROM LOBBY ABOVE.
- 7 TYPE D4 WALL SCONES RELOCATED TO THIS LOCATION.
- 8 NOT USED.
- 9 RECONNECT LIGHTING TO EXISTING DISPLAY LIGHTING CIRCUIT.
- 10 CONNECT EXIT SIGN TO A 15A SPARE CIRCUIT FROM EPP-5.
- 11 CONNECT EXIT SIGN TO A 15A SPARE CIRCUIT FROM EPP-3.
- 12 CONNECT TO THE SAME CIRCUIT (TYPICAL).
- 13 PROVIDE TYPE C7 LED LINEAR LIGHT MOUNTED WITHIN "C" CHANNEL ILLUMINATING INTERIOR STREET EXIT SIGNS.

LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z1	LCP-6-1
Z2	LCP-6-2
Z3	LCP-6-3
Z4	LCP-6-4
Z5	LCP-6-5
Z6	LCP-10-1
Z7	LCP-1-1
Z8	LCP-10-2
Z9	LCP-10-3
Z38	LCP-10-26
Z39	LCP-10-27
Z44	LCP-6-6
Z46	LCP-6-8
Z49	LCP-6-13




1 ATRIUM NEW LIGHTING PLAN
SCALE: 1:100




Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada


REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique



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AES PROJECT NUMBER 2-12-085



PROJECT
NORTH

CUSTOMS
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OFFICE

Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
2	ISSUED FOR 66% CD REVIEW	2012/11/15
1	ISSUED FOR 33% REVIEW	2012/10/11
Revision/ Client/client	Description/Description	Date/Date

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER

SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

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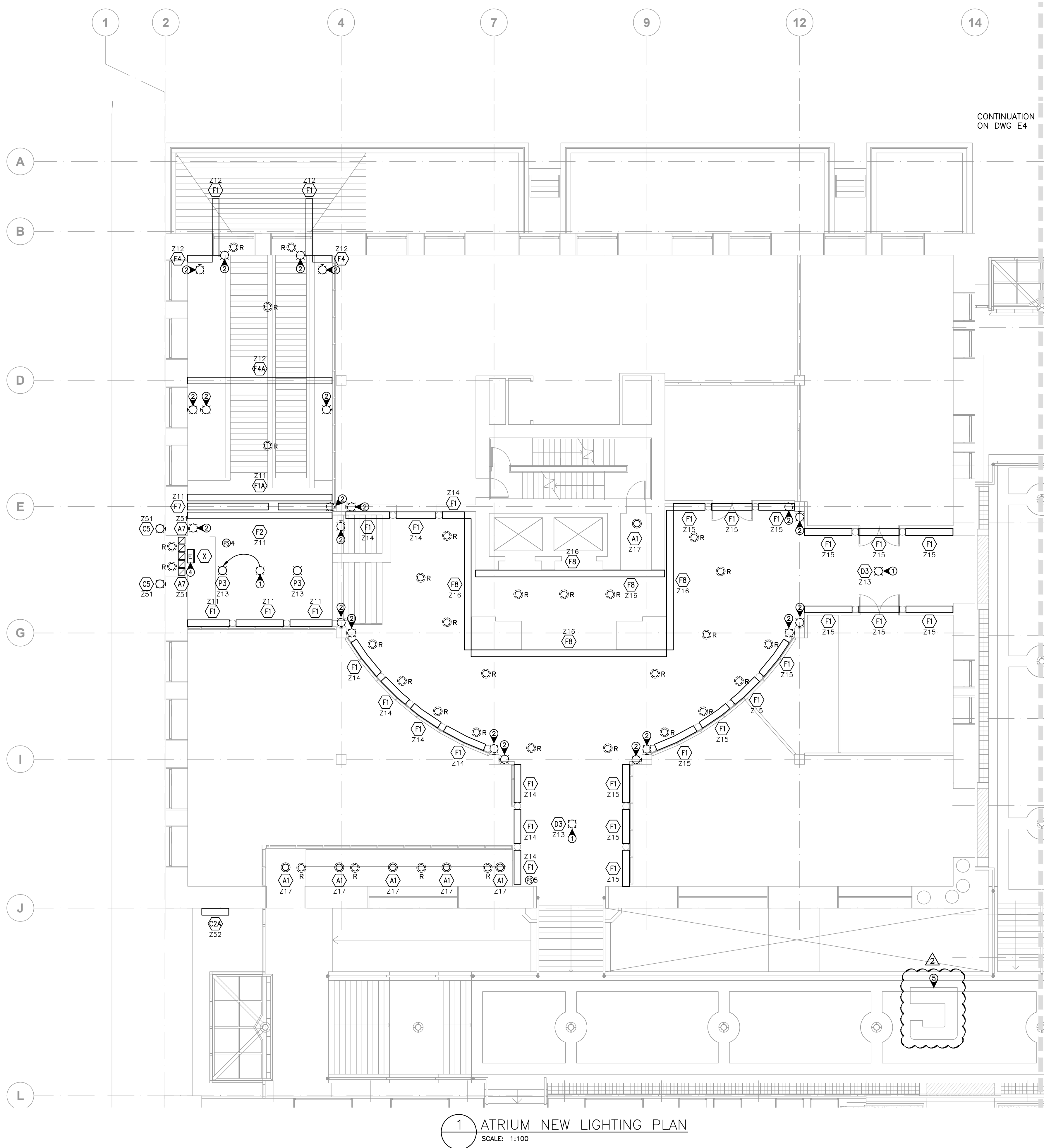
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AS

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
ATRIUM NEW
LIGHTING PLAN
LEVEL B1 LOWER MALL
FLOOR PLAN (NE)

Project No./No. du projet R.041365.001	Sheet/ Feuille E2 OF 30	Revision no./ La Révision no. 4
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1 ATRIUM NEW LIGHTING PLAN
SCALE: 1:100

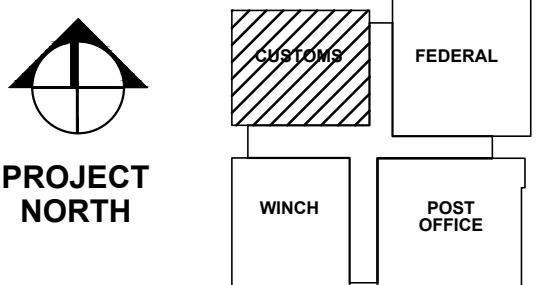
LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z11	LCP-1-2
Z12	LCP-1-3
Z13	LCP-1-4
Z14	LCP-1-5
Z15	LCP-1-6
Z16	LCP-1-7
Z17	LCP-1-8
Z51	LCP-1-12
Z52	LCP-1-13

GENERAL NOTES:

- A. ALL CIRCUITS AND WIRING FOR EXISTING LIGHT FIXTURES THAT ARE BEING REMOVED SHALL BE RETAINED FOR RECONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- B. INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW LIGHTING CONTROL PANELS AS SPECIFIED. PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BACK TO NEW LIGHT FIXTURES AS SPECIFIED. PROVIDE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- C. ALLOW POSITIONING AND RELOCATION OF DAYLIGHT SENSORS WITHIN 20 METERS FROM LOCATIONS SHOWN ON DRAWINGS.
- D. FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- E. FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER SUNSET UNDER DIRECTION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- F. REFER TO APPENDIX A FOR LUMINAIRE SCHEDULE.

DRAWING KEY NOTES:

- ① EXISTING LIGHT FIXTURE SHALL BE RELOCATED. PROVIDE ALTERATIONS TO FIXTURE CHANGING LAMP SOURCE AS SPECIFIED.
- ② DISCONNECT AND REMOVE EXISTING WALL SCONCES. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- ③ NOT USED.
- ④ CONNECT EXIT SIGN TO A 15A SPARE CIRCUIT FROM EPP-1.
- ⑤ INFORMATION DESK C/W RECEPTACLES, DATA, AND LIGHTING BY MILLWORK CONTRACTOR. REFER TO ARCHITECTURAL DRAWING A4.7.



Revision/	Description/Description	Date/Date
Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
2	ISSUED FOR 66% CD REVIEW	2012/11/15
1	ISSUED FOR 33% REVIEW	2012/10/11
Client/client		

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

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Designed by/Concept par
ER

Drawn by/Dessine par
AS

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

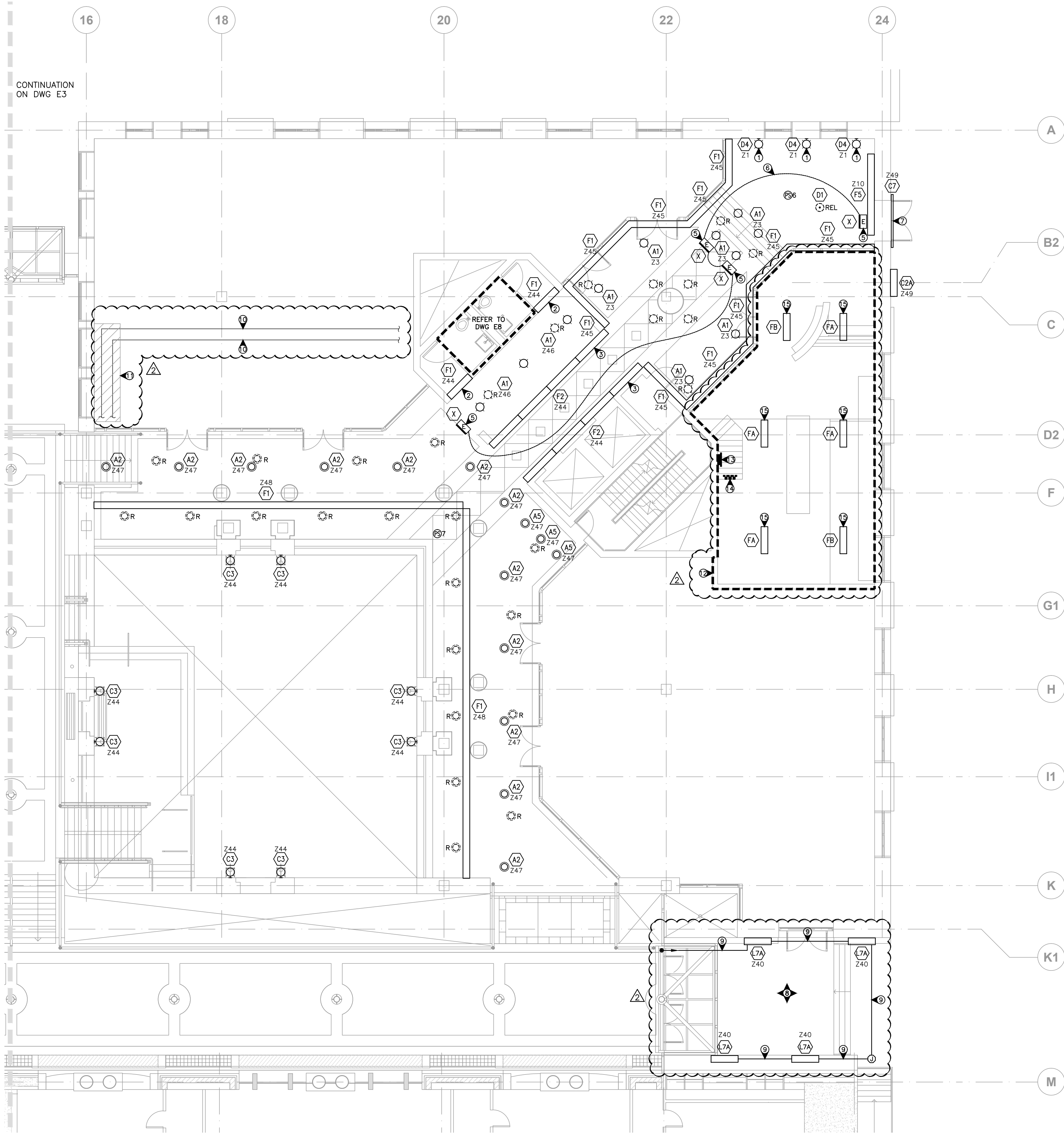
Drawing title/Titre du dessin

ATRIUM NEW
LIGHTING PLAN
LEVEL L1 UPPER MALL
FLOOR PLAN (NW)

Project No./No. du
projet
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no.
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CONTINUATION
ON DWG E3

1 ATRIUM NEW LIGHTING PLAN
SCALE: 1:100

LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z1	LCP-6-1
Z40	LCP-10-28
Z44	LCP-6-6
Z45	LCP-6-7
Z46	LCP-6-8
Z47	LCP-6-9
Z48	LCP-6-10
Z10	LCP-6-11
Z49	LCP-6-13

GENERAL NOTES:

- A. ALL CIRCUITS AND WIRING FOR EXISTING LIGHT FIXTURES THAT ARE BEING REMOVED SHALL BE RETAINED FOR RECONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- B. INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW LIGHTING CONTROL PANELS AS SPECIFIED. PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BACK TO NEW LIGHT FIXTURES AS SPECIFIED. PROVIDE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- C. ALLOW POSITIONING AND RELOCATION OF DAYLIGHT SENSORS WITHIN 20 METERS FROM LOCATIONS SHOWN ON DRAWINGS.
- D. FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- E. FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER SUNSET UNDER DIRECTION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- F. REFER TO APPENDIX A FOR LUMINAIRE SCHEDULE.

DRAWING KEY NOTES:

- 1 DISCONNECT AND REMOVE EXISTING WALL SCONCE. INSTALL RETRO FITTED TYPE D4 WALL SCONCE ON OUTLET BOX. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- 2 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. REUSE EXISTING WIRING AND CONDUIT. INSTALL NEW TYPE F1 FIXTURE. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- 3 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. REUSE EXISTING WIRING AND CONDUIT. INSTALL NEW TYPE F2 FIXTURE. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- 4 TYPE D4 WALL SCONCE RELOCATED TO THIS LOCATION.
- 5 CONNECT EXIT SIGN TO A 15A SPARE CIRCUIT FROM EPP-3.
- 6 CONNECT TO THE SAME CIRCUIT (TYPICAL).
- 7 PROVIDE TYPE C7 LED LINEAR LIGHT MOUNTED WITHIN "C" CHANNEL ILLUMINATING INTERIOR STREET EXIT SIGNS.
- 8 SEE DRAWING E20 FOR OVERALL EXTERIOR LIGHTING.
- 9 CONDUIT UNDER THE BRIDGE.
- 10 EXISTING POWER AND SPEAKER CONDUITS AND WIRING. POWER CONDUIT AND WIRING ARE FOR EXISTING ATRIUM LIGHTING (CIRCUIT LP6-S).
- 11 EXISTING POWER AND SPEAKER CONDUITS AND WIRING TO BE RELOCATED AWAY FROM THE WALL FOR STRUCTURAL BEAM INSTALLATION. EXISTING POWER CONDUIT AND WIRING FOR ATRIUM LIGHTING TO BE COORDINATED WITH THE NEW WORK.
- 12 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES FOR REMOVAL OF T-BAR CEILING. TURN OVER REMOVED FIXTURES TO DEPARTMENTAL REPRESENTATIVE.
- 13 EXISTING MAIN TENANT PANEL TO REMAIN DURING DEMOLITION. WIRING TO EXISTING LIGHTING AND POWER WITHIN THE TENANT SPACE TO BE REMOVED.
- 14 EXISTING SUB TENANT PANEL TO BE REMOVED.
- 15 SUPPLY AND INSTALL NEW INDUSTRIAL FLUORESCENT FIXTURE C/W 1-54W TSHO LAMPS & WIREGUARD IN THIS LOCATION FOR TEMPORARY LIGHTING AFTER DEMOLITION. CONNECT TO EXISTING AVAILABLE LIGHTING CCT IN THAT AREA. MINIMUM STANDARD FOR TYPE FA FIXTURE TO BE COOPER LIGHTING - METALUX (4'-SSF-1-54TS-120-EBT1N). MINIMUM STANDARD FOR TYPE FB FIXTURE TO BE COOPER LIGHTING METALUX WITH INTEGRAL EMERGENCY BATTERY (4'-SSF-1-54TS-120-EL5HO-EBT1N).

Revision/ Client	Description/Description	Date/Date
Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
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Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER

**SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)**

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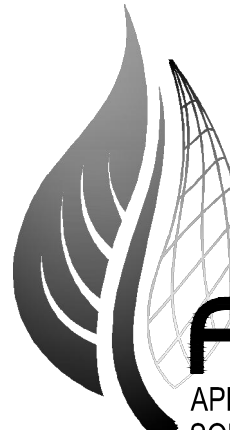
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PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
**ATRIUM NEW
LIGHTING PLAN
LEVEL L1 UPPER MALL
FLOOR PLAN (NE)**

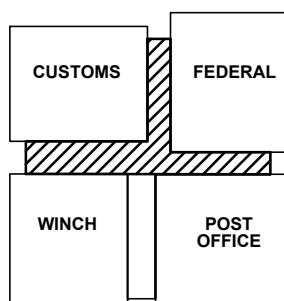
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.041365.001	E4 OF 30	4



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SOLUTIONS LIMITED
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AES PROJECT NUMBER 2-12-085



PROJECT
NORTH



Revision/ Client	Description/Description	Date/Date
Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
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Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

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PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

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Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

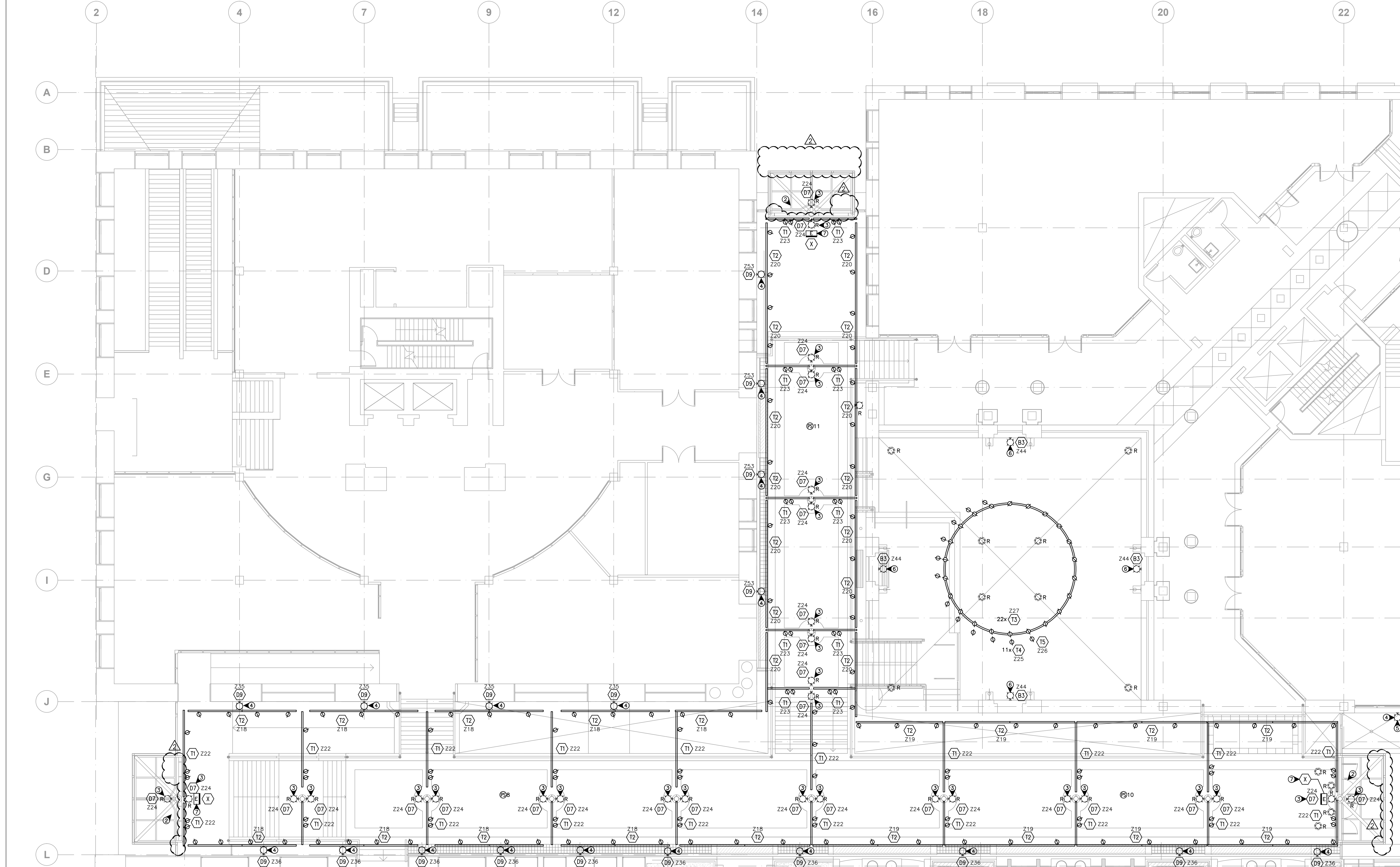
Drawing title/Titre du dessin

ATRIUM NEW
LIGHTING PLAN
LEVEL L1 UPPER MALL
FLOOR PLAN

Project No./No. du
projet
R.041365.001

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E5
OF 30

Revision no./
La Révision
no.
4



GENERAL NOTES:

- ALL CIRCUITS AND WIRING FOR EXISTING LIGHT FIXTURES THAT ARE BEING REMOVED SHALL BE RETAINED FOR RECONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW LIGHTING CONTROL PANELS AS SPECIFIED. PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BACK TO NEW LIGHT FIXTURES AS SPECIFIED. PROVIDE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- ALLOW POSITIONING AND RELOCATION OF DAYLIGHT SENSORS WITHIN 20 METERS FROM LOCATIONS SHOWN ON DRAWINGS.
- FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER SUNSET UNDER DIRECTION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- REFER TO APPENDIX A FOR LUMINAIRE SCHEDULE.

1 ATRIUM NEW LIGHTING PLAN

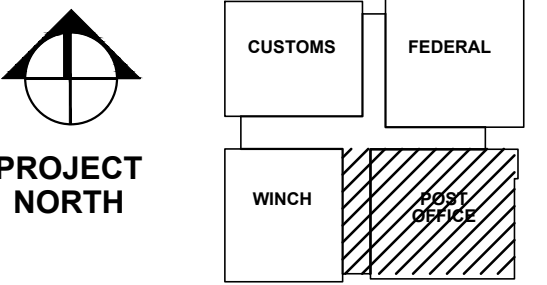
SCALE: 1:100


LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z37	LCP-10-25
Z38	LCP-10-26
Z39	LCP-10-27
Z53	LCP-1-14

LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z44	LCP-1-9
Z18	LCP-10-4
Z19	LCP-10-5
Z20	LCP-10-6
Z22	LCP-10-8
Z23	LCP-10-9
Z24	LCP-10-10
Z25	LCP-10-11
Z26	LCP-10-12
Z27	LCP-10-13
Z35	LCP-1-10
Z36	LCP-10-14

DRAWING KEY NOTES:

- NOT USED.
- DISCONNECT EXISTING NEON LIGHT FIXTURE FOR REMOVAL BY DEMOLITION CONTRACTOR. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- REMOVE EXISTING WALL MOUNTED FIXTURE. REPLACE WITH NEW TYPE D7 FIXTURE. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- EXISTING D9 WALL SCONCES TO REMAIN. RETROFIT TO CHANGE LAMP TO LED.
- TWO TYPE D9 FIXTURES LOCATED ON NORTH WALL.
- REMOVE EXISTING WALL PACK. REPLACE WITH NEW TYPE B3. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- CONNECT EXIT SIGN TO A 15A SPARE CIRCUIT FROM EPP-5. ALL EXIT SIGNS SHOWN ON THIS DRAWING SHALL SHARE THE SAME CIRCUIT.



	ADDENDUM 2	2013/05/
4	ISSUED FOR TENDER	2013/04/
3	ISSUED FOR 99% CD REVIEW	2013/01/
2	ISSUED FOR 66% CD REVIEW	2012/11/
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Revision/ Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER

SINCLAIR CENTRE

**SINCLAIR CENTRE
REVITALIZATION
PROJECT**

(PHASE 2)

Consultant Signature Only

Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

PHASE 2

LEVEL B2 FLOOR PLAN

LIGHTING & POWER LAYOUTS

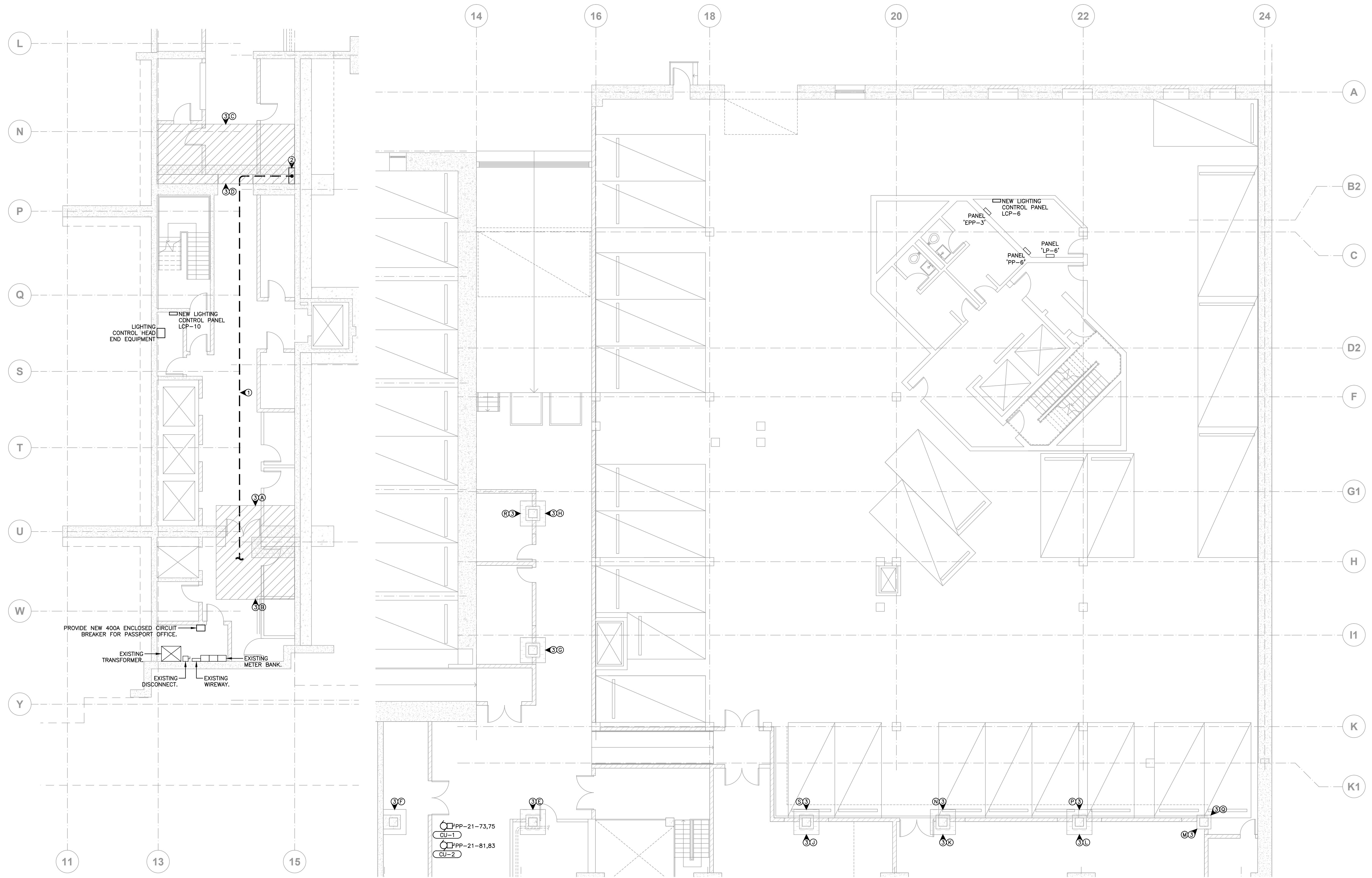
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R.041365.001	

Sheet/Feuille

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OF 30

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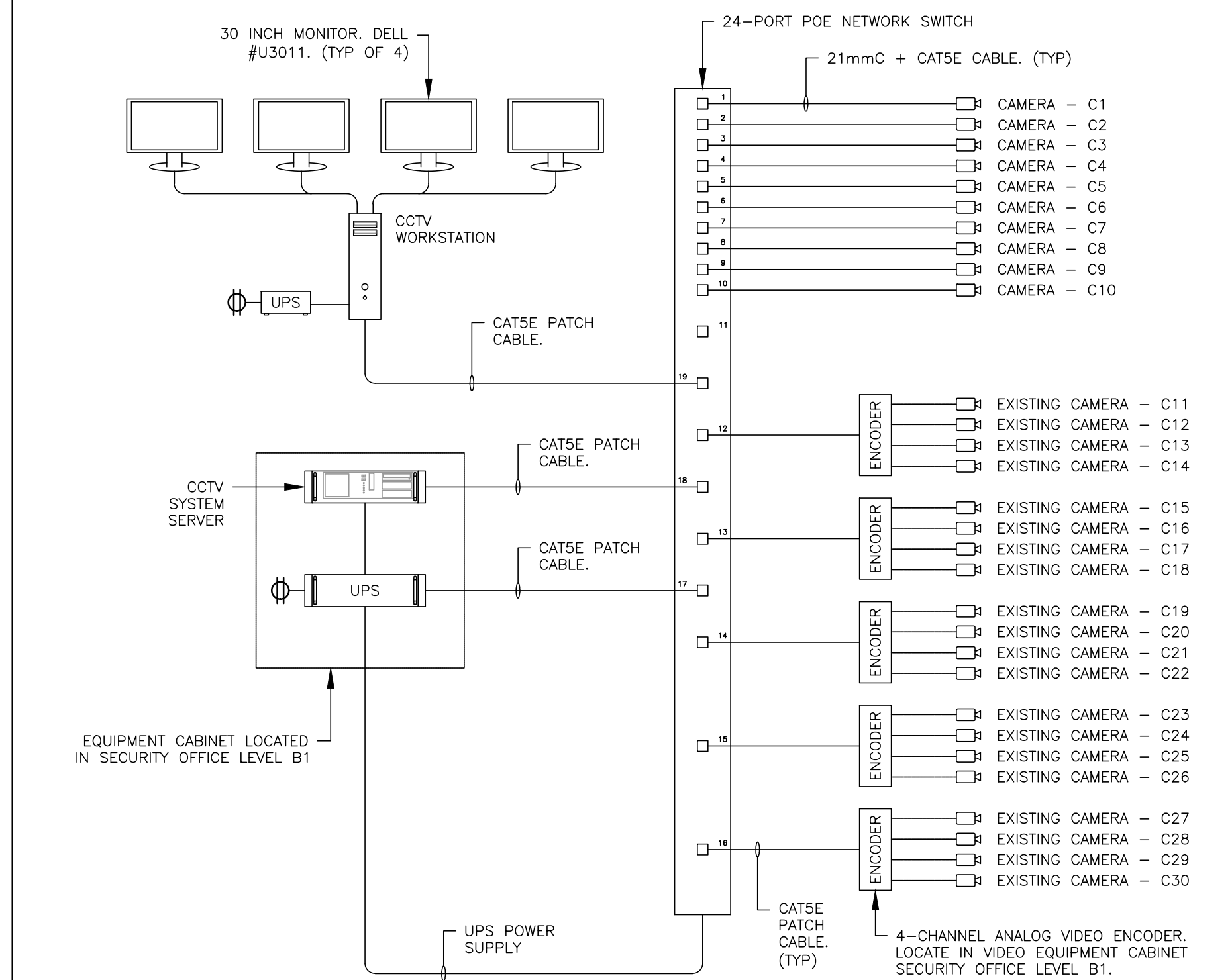
1 WINCH - P.O. BUILDING CORE
ELECTRICAL PLAN
SCALE: 1:100

A. REFER TO DRAWING E17 FOR ELECTRICAL SINGLE LINE DIAGRAMS.

- ① EXISTING CONDUITS SHALL REMAIN. PROTECT EXISTING CONDUITS DURING DEMOLITION AND RECONSTRUCTION OF EXISTING FLOOR SLAB FOR CONSTRUCTION OF ROCK ANCHOR FOR SEISMIC PURPOSE.
- ② CONDUITS RISE UP IN WIRING CHASE. PROTECT DURING DEMOLITION AND CONSTRUCTION.

2 FEDERAL - P.O. BUILDING CORE - ELECTRICAL PLAN
SCALE: 1:100

(A) REFER TO DRAWING E31 DETAIL 1. (F) REFER TO DRAWING E31 DETAIL 6. (L) REFER TO DRAWING E31 DETAIL 11. (R) REFER TO DRAWING E31 DETAIL 16.
(B) REFER TO DRAWING E31 DETAIL 2. (G) REFER TO DRAWING E31 DETAIL 7. (M) REFER TO DRAWING E31 DETAIL 12. (S) REFER TO DRAWING E31 DETAIL 17.
(C) REFER TO DRAWING E31 DETAIL 3. (H) REFER TO DRAWING E31 DETAIL 8. (N) REFER TO DRAWING E31 DETAIL 13.
(D) REFER TO DRAWING E31 DETAIL 4. (J) REFER TO DRAWING E31 DETAIL 9. (P) REFER TO DRAWING E31 DETAIL 14.
(E) REFER TO DRAWING E31 DETAIL 5. (K) REFER TO DRAWING E31 DETAIL 10. (Q) REFER TO DRAWING E31 DETAIL 15.

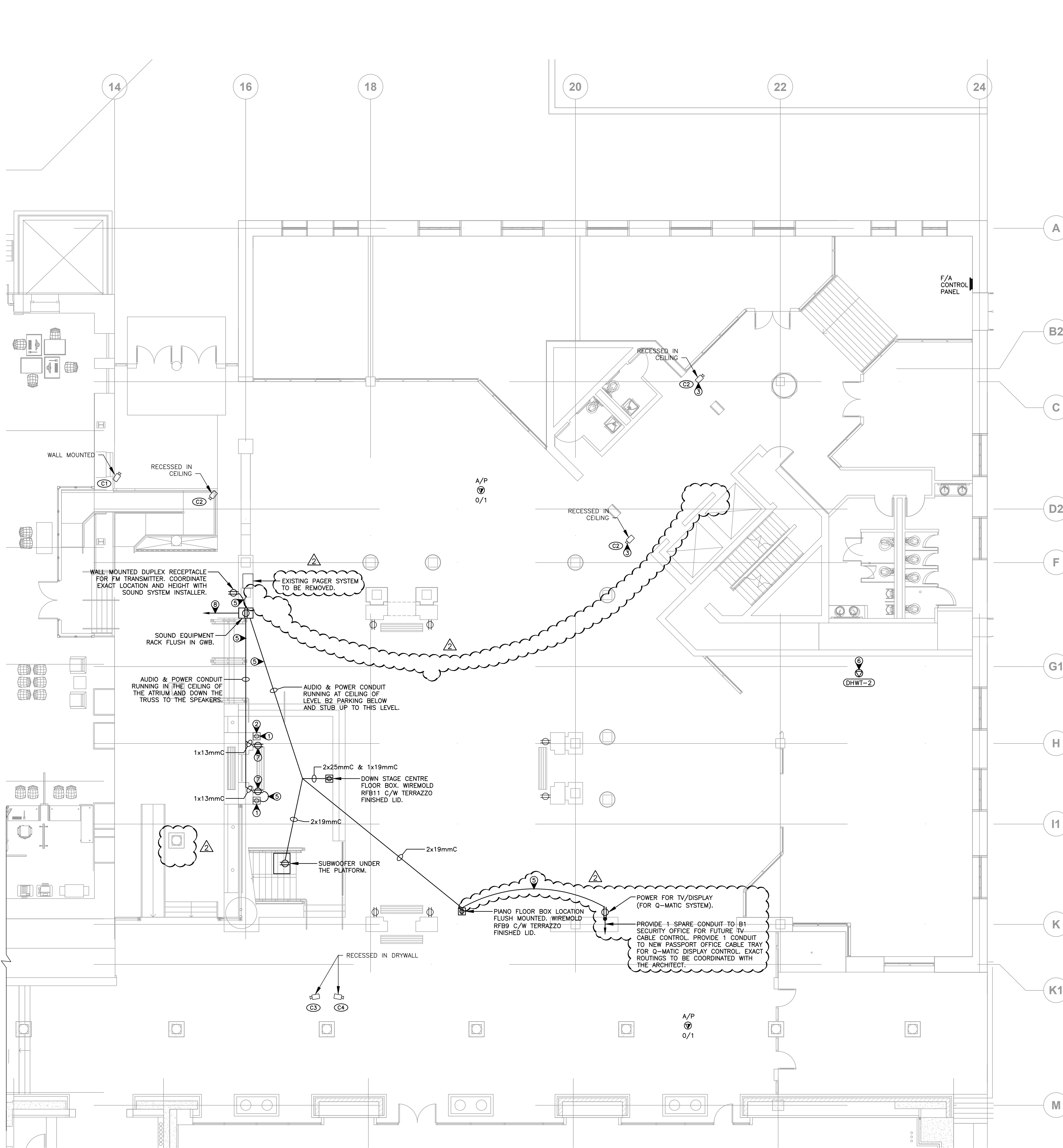


1 CCTV SYSTEM LAYOUT DETAIL
NTS

CCTV CAMERA TYPE SCHEDULE	
TYPE	DESCRIPTION
C1	2.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C2	2.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C3	5.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C4	5.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C5	2.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C6	2.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C7	3.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C8	3.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C9	3.0 MEGAPIXEL DAY/NIGHT H.264 HD 3-9mm INDOOR RECESSED/SURFACE DOME CAMERA
C10	2.0 MEGAPIXEL WDR DAY/NIGHT 20x PENDANT DOME PTZ CAMERA

DRAWING KEY NOTES:

- EXISTING HORIZONTALLY MOUNTED DUPLEX RECEPTACLE, PROVIDE 300x300 ACCESS HATCH IN NEW STAGE TO ALLOW ACCESS.
- REPLACE DAMAGED DUPLEX RECEPTACLE WITH NEW RECEPTACLE.
- REMOVE EXISTING CAMERA TO BE REMOVED. PROVIDE NEW CAMERA AS PER CCTV CAMERA TYPE SCHEDULE.
- PROVIDE JUNCTION BOX FOR SIGNAGE LIGHTING. CONNECT TO A 15A SPARE CIRCUIT FROM PP-6.
- CONNECT TO THE SAME CIRCUIT (TYPICAL).
- CONNECT ELECTRIC HOT WATER HEATER TO A 30A SPARE CIRCUIT FROM PP-6.
- PROVIDE 15A RECEPTACLE FOR LOUSPEAKER.
- PROVIDE 1x13mmC FOR CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL. FOR AUDIO SYSTEM SILENCING UPON F/A ACTIVATION.
- NOT USED.
- CONNECT FLOOR BOX RECEPTACLE TO A 15A SPARE CIRCUIT FROM PP-10. WIREMOLD RFB11 C/W TERRAZZO FINISHED LID.



1 ATRIUM NEW POWER & COMMUNICATIONS PLAN
SCALE: 1:100

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CHERNOFF THOMPSON ARCHITECTS

Vancouver Office
600 - 905 W. Pender St.
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Vancouver-Victoria
AES
APPLIED ENGINEERING SOLUTIONS LIMITED
www.appliedengineering.ca
AES PROJECT NUMBER 2-12-085

PROJECT NORTH

CUSTOMS

WINCH

POST OFFICE

Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
2	ISSUED FOR 66% CD REVIEW	2012/11/15
1	ISSUED FOR 33% REVIEW	2012/10/11
Revision/Client	Description/Description	Date/Date

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE REVITALIZATION PROJECT
(PHASE 2)

Consultant Signature Only

Designed by/Concept par
ER

Drawn by/Dessiné par
AS

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

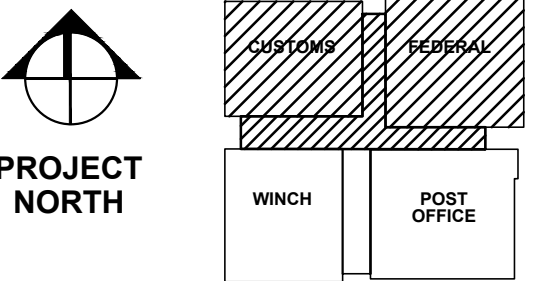
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL


Drawing title/Titre du dessin
ATRIUM NEW POWER & COMMUNICATION
LEVEL B1 LOWER MALL
FLOOR PLAN (NE)

Project No./No. du projet
R.041365.001

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OF 30

Revision no./La Révision no.
4



	ADDENDUM 2	2013/05/
4	ISSUED FOR TENDER	2013/04/
3	ISSUED FOR 99% CD REVIEW	2013/01/
2	ISSUED FOR 66% CD REVIEW	2012/11/
1	ISSUED FOR 33% REVIEW	2012/10/
Revision/ Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
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**SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)**

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Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Drawing title/Titre du dessin

**ATRIUM NEW
POWER & COMMUNICATION
LEVEL L1 UPPER MALL
FLOOR PLAN (NW)**

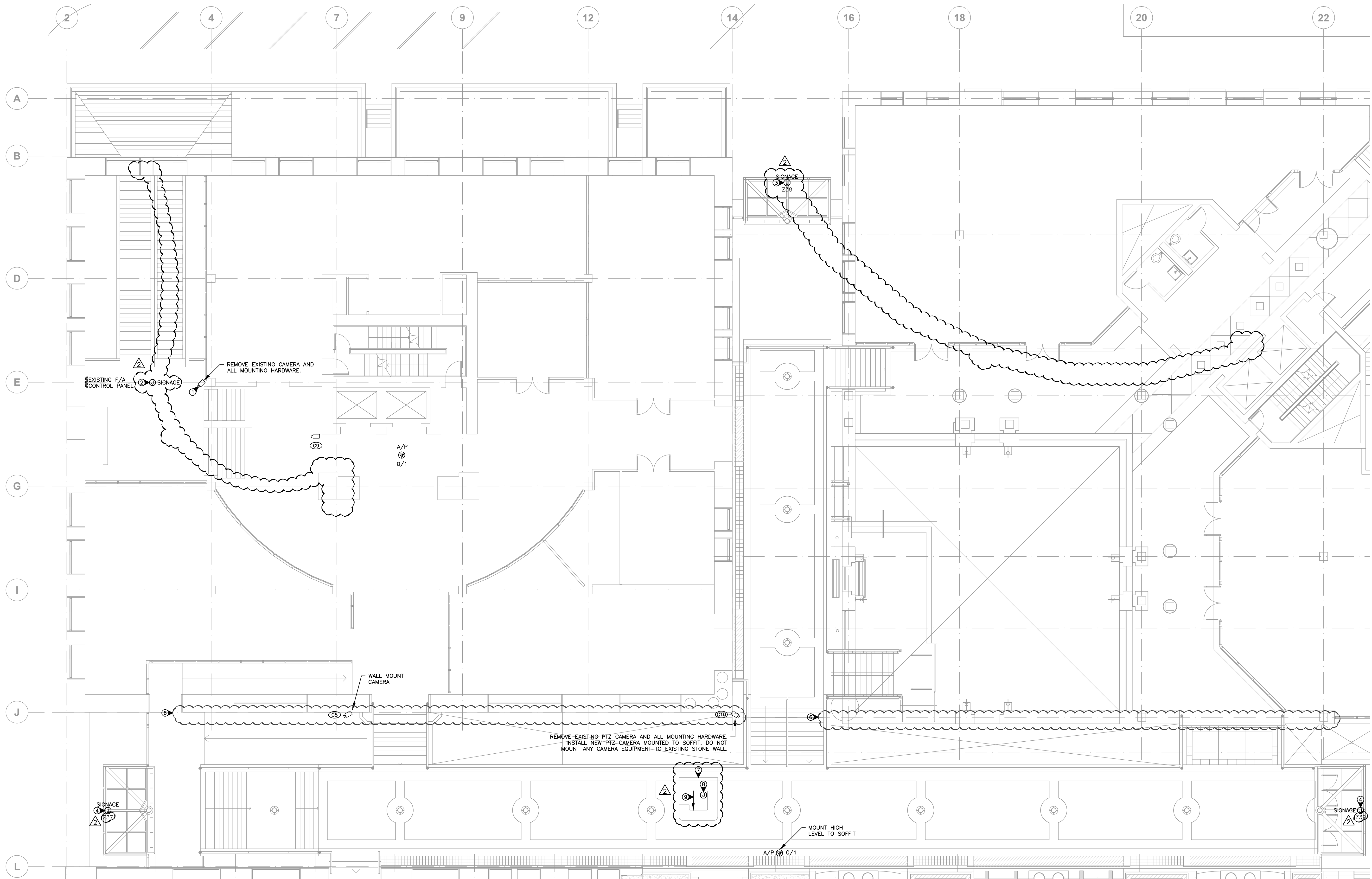
Project No./No. du projet	R.041365.001
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4



DRAWING KEY NOTES:

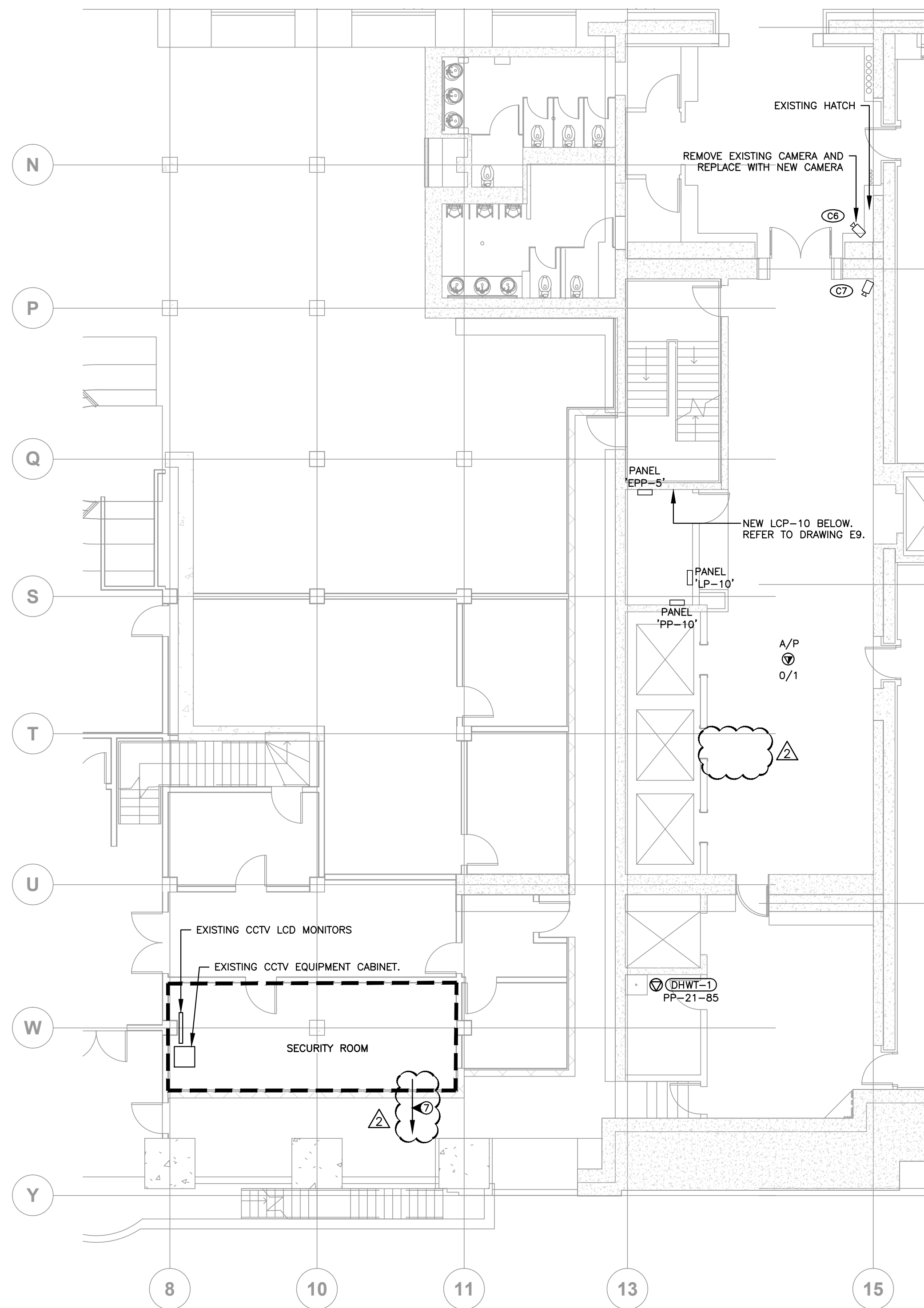
- 1 EXISTING CAMERA.
- 2 PROVIDE JUNCTION BOX FOR SIGNAGE LIGHTING. CONNECT TO A 15A SPARE CIRCUIT FROM PP-1.
- 3 PROVIDE JUNCTION BOX FOR SIGNAGE LIGHTING. CONNECT TO A 15A SPARE CIRCUIT FROM PP-6.
- 4 PROVIDE JUNCTION BOX FOR SIGNAGE LIGHTING. CONNECT TO A 15A SPARE CIRCUIT FROM PP-10.
- 5 NOT USED.
- 6 EXISTING ELECTRICAL DEVICES, SPEAKERS, CONDUITS AND WIRING, ETC TO BE REMOVED TEMPORARILY. RE-INSTALL AFTER GUTTER AND ROOF WORK HAS FINISHED. COORDINATE WITH STRUCTURAL WORK.

- 7 INFORMATION DESK C/W RECEPTEALS, DATA, AND LIGHTING BY MILLWORK CONTRACTOR. REFER TO ARCHITECTURAL DRAWING A47.
- 8 PROVIDE FLOOR MOUNTED JUNCTION BOX CIRCUITED FROM A 15A SPARE CIRCUIT FROM PANEL PP10. FEED CIRCUIT FROM BELOW. COORDINATE EXACT LOCATION WITH MILLWORK CONTRACTOR.
- 9 PROVIDE CONDUIT AND WIRING FROM THE DATA SERVER TO THE INTERACTIVE DISPLAY VESTIBULE IN LEVEL L1 (UPPER MALL) FLOOR IN WHICH P/O. BUILDING CORE FOR TV DISPLAY. CONDUIT AND WIRING TO RUN ON THE CEILING OF LEVEL B2 UP TO THE TV DISPLAY LOCATION. EXACT LOCATING TO BE COORDINATED WITH THE ARCHITECT.

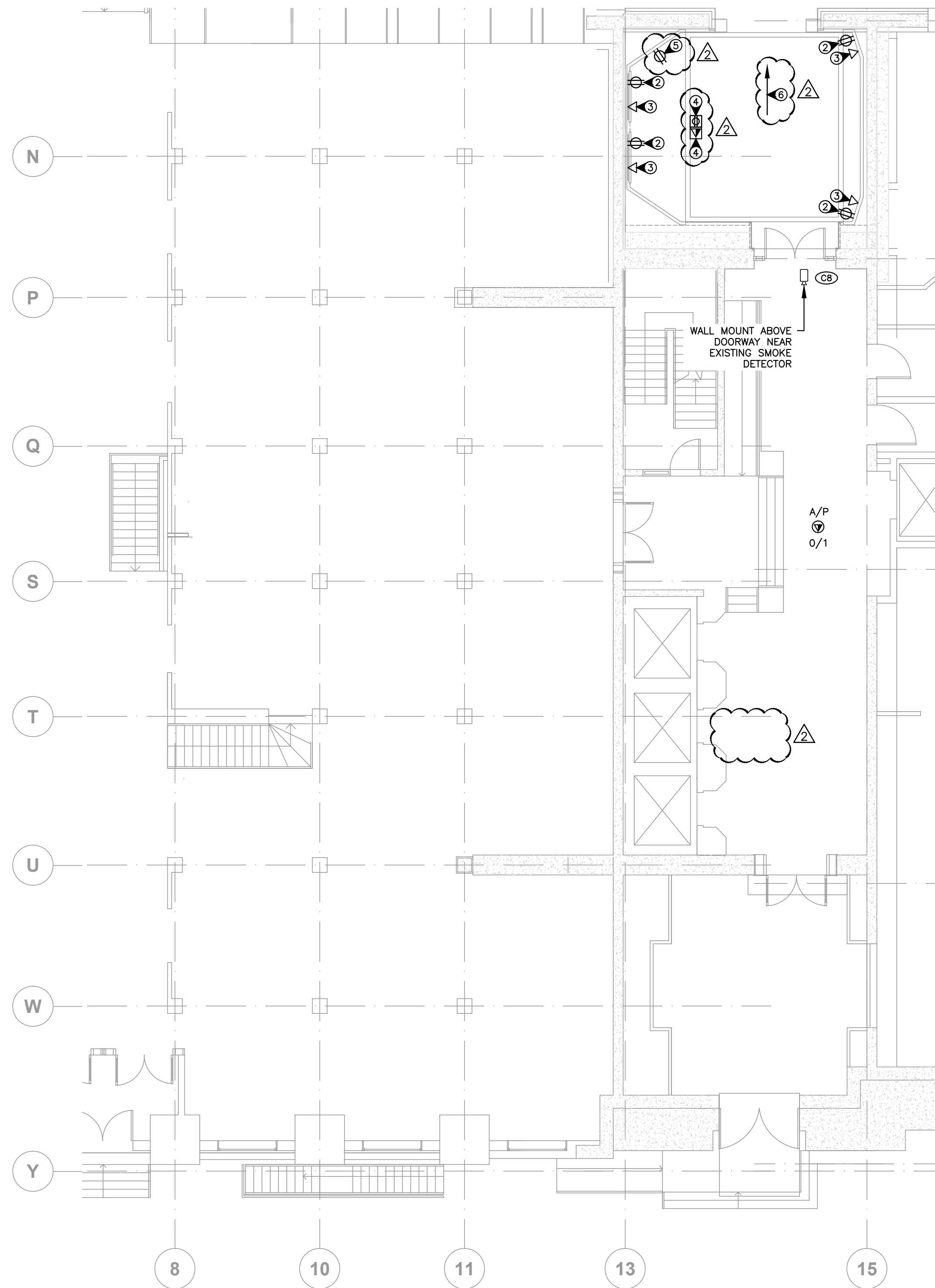
LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z37	LCP-10-25
Z38	LCP-10-26
Z39	LCP-10-27

1 ATRIUM NEW POWER & COMMUNICATIONS PLAN

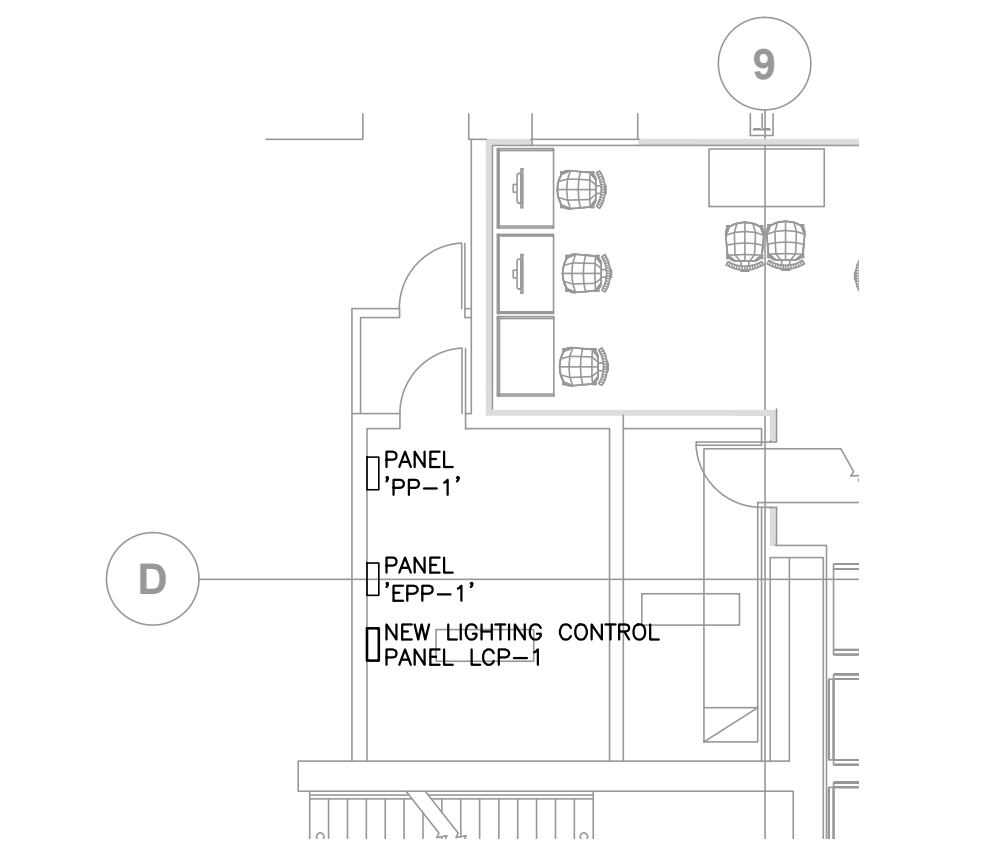
SCALE: 1:100



1 LEVEL B1 ELEVATOR LOBBY NEW POWER & COMMUNICATIONS PLAN
SCALE: 1:100



2 LEVEL L1 ELEVATOR LOBBY NEW POWER & COMMUNICATIONS PLAN
SCALE: 1:100



3 CUSTOMS BUILDING - LEVEL B1
ELECTRICAL ROOM
SCALE: 1:100

DRAWING KEY NOTES:

- 1 PROVIDE NEW CONVENIENT RECEPTACLE. CONNECT TO A 15A SPARE CIRCUIT FROM PP-10.
- 2 PROVIDE NEW RECEPTACLE FOR DISPLAY PANEL. CONNECT TO A 15A SPARE CIRCUIT FROM PP-10. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWING A45.
- 3 PROVIDE NEW DATA OUTLET FOR DISPLAY PANEL. CONNECT DATA TO SERVER AT THE NEW INFORMATION DESK. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWING A45.
- 4 PROVIDE NEW FLOOR DATA OUTLET AND RECEPTACLE. CONNECT TO A 15A SPARE CIRCUIT FROM PP-10.
- 5 CONVENIENT RECEPTACLE. CONNECT TO A 15A SPARE CIRCUIT FROM PP-10.
- 6 PROVIDE CONDUIT AND WIRING TO THE INFORMATION DESK DATA SERVER TV DISPLAY. CONDUIT AND WIRING TO RUN ON THE CEILING OF LEVEL B2 BACK TO THE INFORMATION DESK. EXACT ROUTING TO BE COORDINATED WITH THE ARCHITECT.
- 7 SPARE CONDUIT ON CEILING OF B1 FROM SECURITY OFFICE TO TV/DISPLAY IN LEVEL B1 (LOWER MALL) ATRIUM FOR FUTURE TV CABLE CONTROL.

Revision/ Client/client	Description/Description	Date/Date
Δ	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
2	ISSUED FOR 66% CD REVIEW	2012/11/15
1	ISSUED FOR 33% REVIEW	2012/10/11

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

Consultant Signature Only

Designed by/Concept par
ER

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AS

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

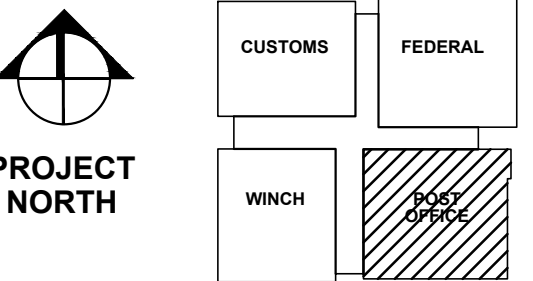
Drawing title/Titre du dessin

ELEVATOR LOBBY
NEW POWER & COMMUNICATION
LEVEL B1 LOWER MALL &
LEVEL L1 UPPER MALL
FLOOR PLANS (SW)

Project No./No. du
projet
R.041365.001


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no.
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RELAY PANEL SCHEDULE	
CIRCUITS	RELAYS
PP-22-1	1
PP-22-2	2
PP-22-3	3
PP-22-4	4
PP-22-5	5
PP-22-6	6
PP-22-7	7
PP-22-9	8

PANEL PP-22 (LIGHTING)							
DESCRIPTION	kW	BKR	CIRCUIT NO.		BKR	kW	DESCRIPTION
1001 2'x4'		20A	1	2	20A		1020 2'x4'
1001 2'x4'		20A	3	4	20A		1022 2'x4'
1002-A/1002-B 2'x4'		20A	5	6	20A		CORRIDOR
1002-A/1002-B RECESSED		20A	7	8	20A		WASHROOMS/MEETING /OFFICES
WALL PICTURES		20A	9	10	15A		BATTERY PACKS
OFFICES/KITCHEN/LOCKER		20A	11	12	15A		EXIT SIGNS
SPARE		20A	13	14	20A		SPARE
SPARE		20A	15	16	20A		SPARE
SPARE		20A	17	18	20A		SPARE
-		-	19	20	-		-
-		-	21	22	-		-
-		-	23	24	-		-
TOTAL x						TOTAL x	
MAINS: 50A MOUNTING: RECESSED MAIN BKR.: 50A			VOLTS: 208Y/120V LOCATION: BACK CORRIDOR 1021-A FED FROM: PP-21				

	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
2	ISSUED FOR 66% CD REVIEW	2012/11/15
1	ISSUED FOR 33% REVIEW	2012/10/11
Revision/ Client/client	Description/Description	Date/Date

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER

**SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)**

Consultant Signature Only

Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

**NEW PASSPORT OFFICE
LIGHTING
LEVEL B1 LOWER MALL (SE)**

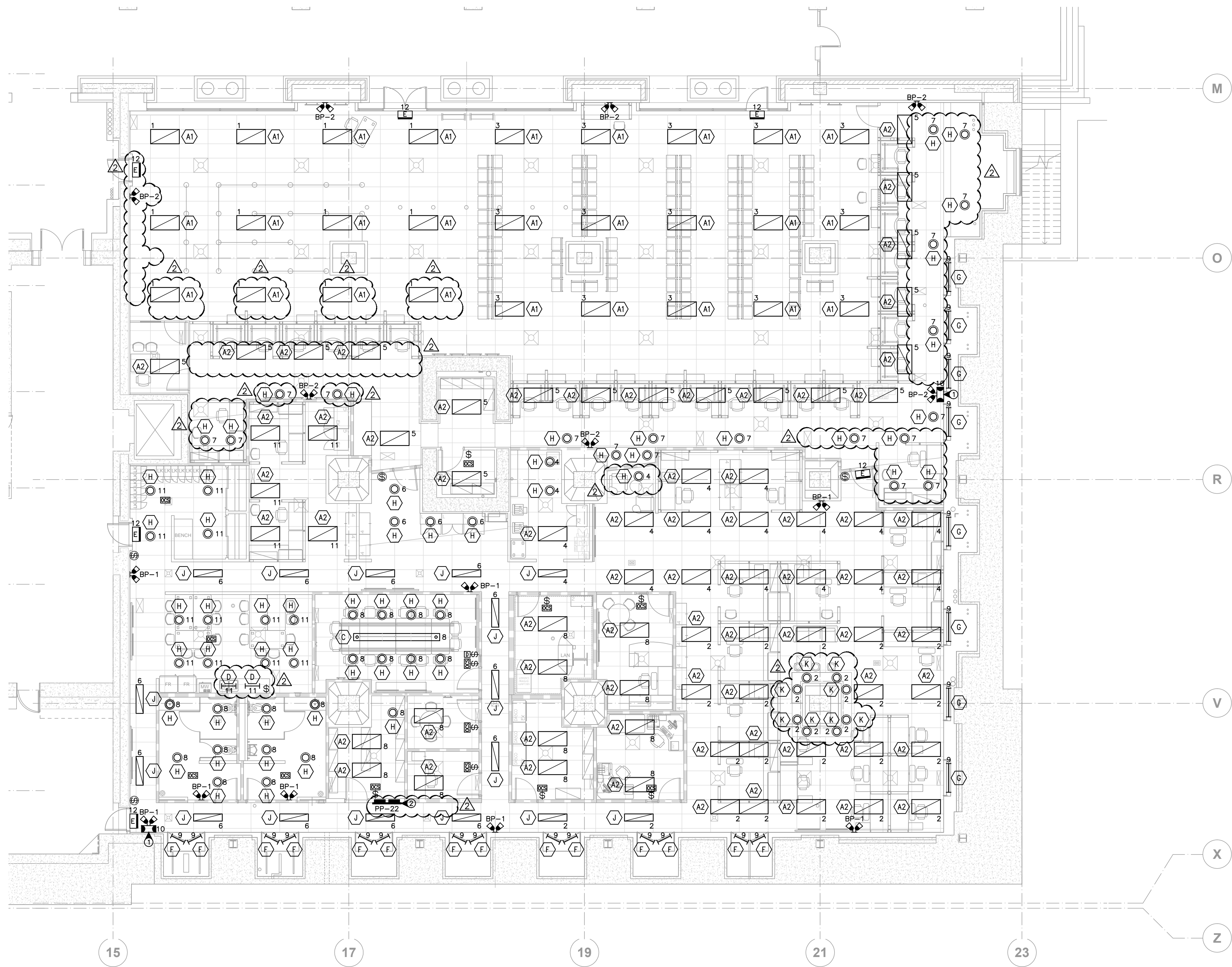
Project No./No. du projet	R.041365.001
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R vision
4



1 LIGHTING PLAN

SCALE: 1:100

GENERAL NOTES:

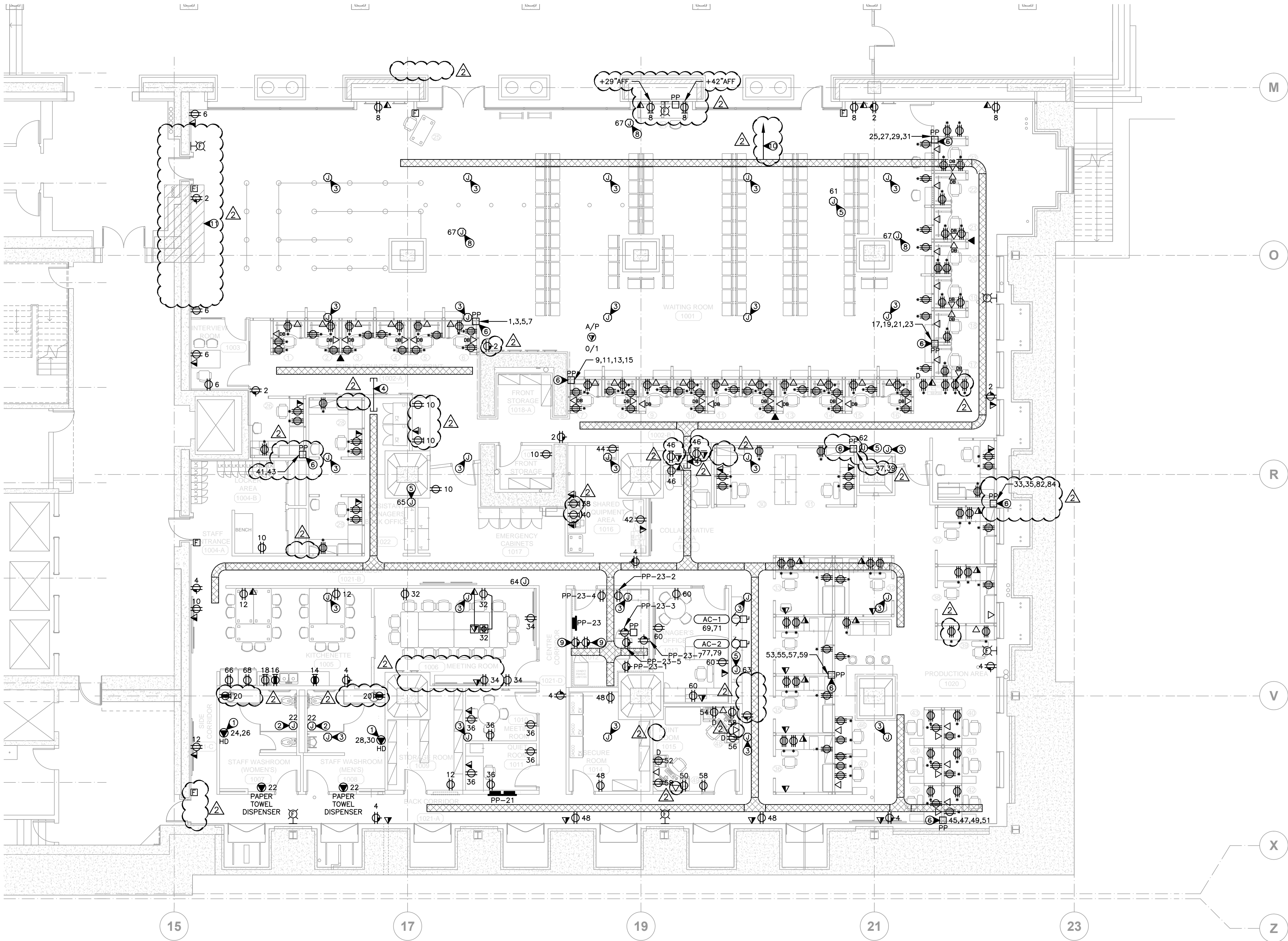
A. ALL CIRCUITS SHOWN ON THIS DRAWING ARE
CIRCUITED FROM PANEL PP-22 UNLESS SPECIFIED.

DRAWING KEY NOTES

- ① BATTERY PACK TO BE READY LITE LDX SERIES: LDX12-200-2-LD7.
- ② PROVIDE AND INSTALL 8 RELAYS CONTROL PANEL COMPLETE WITH LOW VOLTAGE SWITCHING. SYSTEM TO BE ZONE-BASED CONTROL OF INTERIOR LIGHTING IN SMALL APPLICATIONS. PANEL TO CONTROL EIGHT CHANNELS OR ZONES OF LIGHTING. ZONES RESPOND TO CONTROL SIGNALS FROM SYSTEM CLOCK (OR OTHER SIGNALING DEVICE) TO TURN LIGHTING ON AND OFF.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	CATALOGUE NO.	VOLT./BALLAST	LAMPS TYPE EACH	MOUNTING	REMARKS
A1	2x4' RECESSED LUMINAIRE FOR PUBLIC OFFICE AREAS	AXIS LIGHTING - DIA 2x4 DIA-24-VL-T8-3-W-120-E-1-TB9	120V/ INSTANT START	3 28W T8	RECESSED	-
A2	2x4' RECESSED LUMINAIRE FOR WORKING OFFICE AREAS	AXIS LIGHTING - DIA 2x4 DIA-24-VL-T8-2-W-120-E-1-TB9	120V/ INSTANT START	2 28W T8	RECESSED	-
C	12' SUSPENDED DIRECT/INDIRECT LUMINAIRE FOR MEETING ROOM	LEDALITE - SONA 7706-F02-P-N-12-1-1-E-W	120V/ INSTANT START	2 28W T5	SUSPENDED	-
D	2' UNDER CABINET LUMINAIRE IN THE KITCHEN	LITHONIA UC-21E-120	120V/ INSTANT START	1 13W T5	UNDER CABINET	-
F	2' WALL MOUNTED DIRECT LED LINEAR LUMINAIRE FOR PICTURES	LITHONIA LIGHTING - Y SERIES ZL1-L24-1700L-LP835	120V/ ELECTRONIC DRIVER	- 21W LED	WALL MOUNTED	-
G	4' WALL MOUNTED DIRECT LED LINEAR LUMINAIRE FOR PICTURES	LITHONIA LIGHTING - C SERIES ZL1-L48-2800L-LP835	120V/ ELECTRONIC DRIVER	- 32W LED	WALL MOUNTED	-
H	RECESSED ROUND LED DOWNLIGHT FOR OFFICE AREAS	LITHONIA LIGHTING - DOWBR LED DOWBR LED-1200L-35K-120-D08	120V/ ELECTRONIC DRIVER	- 28W LED	RECESSED	-
J	1x4' RECESSED LUMINAIRE FOR OFFICE CORRIDORS	AXIS LIGHTING - DIA 1x4 DIA-14-VL-T8-2-W-120-E-1-TB9	120V/ INSTANT START	2 28W T8	RECESSED	-
K	4" RECESSED ROUND LED DOWNLIGHT FOR OFFICE AREAS	LITHONIA LIGHTING - 4BL 4BL-MW-LED	120V/ ELECTRONIC DRIVER	- 9W LED	RECESSED	-
X	EXIT SIGN	BECHTEL OT-RM-L-WC-1-60SP	120V/ ELECTRONIC DRIVER	- 2W LED	WALL/CEILING	REFER TO DRAWING FOR DIRECTION ARROW.



1 POWER AND COMMUNICATIONS PLAN
SCALE: 1:100

GENERAL NOTES:

- A. ASTERISK (*) INDICATES THE DEVICE IS A PART OF SYSTEMS FURNITURE AND NOT IN SCOPE OF WORK.
- B. CABLE TRAY AND THE GRID OF CEILING MOUNTED OUTLET BOXES ARE APART OF BASE BUILDING FIT-UP.
- C. ALL CIRCUITS SHOWN ON THIS DRAWING ARE CIRCUITED FROM PANEL PP-21 UNLESS SPECIFIED.

DRAWING KEY NOTES

- 1 PROVIDE CONNECTION TO 1400W, 208V HAND DRYER.
- 2 PROVIDE 120V CIRCUIT FOR CONNECTION TO AUTO CONTROLS FOR WATER CLOSETS AND LAVATORIES.
- 3 PROVIDE JUNCTION BOX IN CEILING SPACE FOR ALL POWER CIRCUITS AS IT IS PART OF THE BASE BUILDING WORK. EXTEND CIRCUITS FROM THOSE JUNCTION BOXES TO FINAL TENANT LOCATIONS AS SHOWN. PROVIDE 3 CIRCUITS FOR EACH JUNCTION BOX WITH NEUTRAL WIRE TO BE #10 AWG.
- 4 1-76mm CONDUIT SLEEVE.
- 5 JUNCTION BOX FOR POWER TRANSFORMER TO TWO VAV BOXES. VAV BOX LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
- 6 PROVIDE 8 WIRE SYSTEM, 4 CIRCUITS TO THE POWER POLE, 3 HOT + 1 SHARED NEUTRAL + 1 GROUND AND 1 HOT + 1 DEDICATED NEUTRAL + 1 GROUND. NEUTRAL WIRE TO BE #10 AWG. POWER POLE TO BE PROVIDED BY THE FURNITURE SUPPLIER.
- 7 NOT USED.
- 8 PROVIDE 2 SEPARATE JUNCTION BOXES FOR Q-MATIC DISPLAY ON THE CEILING, ONE JUNCTION BOX FOR POWER AND ONE JUNCTION BOX FOR DATA/TEL WHICH FEEDS FROM THE NEAREST CABLE TRAY.
- 9 CONNECT SECURITY SYSTEM CABINET RECEPTACLE TO A 20A DEDICATED SPARE CIRCUIT ON PANEL PP-5
- 10 CONDUIT TO LEVEL B1 (LOWER MALL) ATRIUM R/V/DISPLAY FOR Q-MATIC DISPLAY. EXACT ROUTING TO BE COORDINATED WITH THE ARCHITECT.
- 11 POWER CONDUITS AND JUNCTION BOXES TO BE RELOCATED TO CLEAR FROM NEW STRUCTURAL WORK REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND E29 DETAIL 18.

PANEL PP-23 (LAN ROOM POWER)

DESCRIPTION	kW	BKR	CIRCUIT	NO. BKR	kW	DESCRIPTION
HOUSE KEEPING RECEPTACLE	20A	1	2	20A		GENERAL RECEPTACLE
HP LAN CABINET RECEPTACLE	20A	3	4	20A		GENERAL RECEPTACLE
H FRAME RECEPTACLE	20A	5	6	15A		SPARE
GENERAL RECEPTACLE	20A	7	8	15A		SPARE
SPARE	20A	9	10	15A		SPARE
SPARE	20A	11	12	15A		SPARE
-	-	13	14	-	-	-
-	-	15	16	-	-	-
-	-	17	18	-	-	-
-	-	19	20	-	-	-
-	-	21	22	-	-	-
-	-	23	24	-	-	-
TOTAL x						TOTAL x
MAINS:	50A					VOLTS: 208Y/120V
MOUNTING:	SURFACE					LOCATION: LAN ROOM 1012
MAIN BKR:	50A					FED FROM: PP-21

PANEL PP-21 (POWER)

DESCRIPTION	kW	BKR	CIRCUIT	NO. BKR	kW	DESCRIPTION
FURNITURE RECEPTACLE	15	1	2	20A		HOUSE KEEPING RECEPTACLE
FURNITURE RECEPTACLE	15	3	4	20A		HOUSE KEEPING RECEPTACLE
FURNITURE RECEPTACLE	15	5	6	15A		1003 / GENERAL RECEPT.
FURNITURE RECEPTACLE	15	7	8	15A		1001 GENERAL RECEPTACLE
FURNITURE RECEPTACLE	15	9	10	15A		1004-B / GENERAL RECEPT.
FURNITURE RECEPTACLE	15	11	12	15A		KITCHENETTE GENERAL RECEPT.
FURNITURE RECEPTACLE	15	13	14	20A		KITCHENETTE COUNTER RECEPT.
FURNITURE RECEPTACLE	15	15	16	20A		KITCHENETTE COUNTER RECEPT.
FURNITURE RECEPTACLE	15A	17	18	20A		KITCHENETTE MICROWAVE
FURNITURE RECEPTACLE	15A	19	20	15A		WASHROOM COUNTER RECEPT.
FURNITURE RECEPTACLE	15A	21	22	15A		WASHROOM EQUIPMENT
FURNITURE RECEPTACLE	15A	23	24	2P		WOMAN'S WASHROOM HAND DRYER
FURNITURE RECEPTACLE	15A	25	26	15A		MAN'S WASHROOM HAND DRYER
FURNITURE RECEPTACLE	15A	27	28	2P		1006 GENERAL / FLOOR RECEPT.
FURNITURE RECEPTACLE	15A	29	30	15A		1006 GENERAL RECEPTACLE
FURNITURE RECEPTACLE	15A	31	32	15A		1010 / 1011 GENERAL RECEPTACLE
FURNITURE RECEPTACLE	15A	33	34	15A		1016 LASER PRINTER
FURNITURE RECEPTACLE	15A	35	36	15A		1016 LASER PRINTER
FURNITURE RECEPTACLE	15A	37	38	15A		1016 COPIER
FURNITURE RECEPTACLE	15A	39	40	15A		1016 SHREDDER
FURNITURE RECEPTACLE	15A	41	42	15A		1002-B / 1019 GENERAL RECEPT.
FURNITURE RECEPTACLE	15A	43	44	15A		1014 GENERAL RECEPTACLE
FURNITURE RECEPTACLE	15A	45	46	15A		1015 PRINTER
FURNITURE RECEPTACLE	15A	47	48	15A		1015 LAMINATOR
FURNITURE RECEPTACLE	15A	49	50	15A		1015 PRINTER
FURNITURE RECEPTACLE	15A	51	52	15A		1015 LAMINATOR
FURNITURE RECEPTACLE	15A	53	54	15A		1015 LAMINATOR
FURNITURE RECEPTACLE	15A	55	56	15A		1015 GENERAL RECEPTACLE
FURNITURE RECEPTACLE	15A	57	58	15A		1013 GENERAL RECEPTACLE
MECHANICAL VAV	15A	59	60	15A		MECHANICAL VAV
MECHANICAL VAV	15A	61	62	15A		MECHANICAL VAV
MECHANICAL VAV	15A	63	64	15A		KITCHENETTE FRIDGE
MECHANICAL VAV	15A	65	66	15A		
TOTAL x						TOTAL x
MAINS:	400A					VOLTS: 208Y/120V
MOUNTING:	RECESSED					LOCATION: BACK CORRIDOR 1021-A
MAIN BKR:	400A					FED FROM: B2 ELECTRICAL ROOM NEW 400A METER

PANEL PP-21 (POWER)

DESCRIPTION	kW	BKR	CIRCUIT	NO. BKR	kW	DESCRIPTION
Q-MATIC DISPLAY	15A	67	68	15A		KITCHENETTE FRIDGE
AC-1	35A	69	70	3P 50A		PANEL PP-22
CU-1	35A	71	72	3P 50A		PANEL PP-23
AC-2	35A	73	74	3P 50A		PANEL PP-23
CU-2	35A	75	76	3P 50A		PANEL PP-23
DHWT-1	30A	77	78	3P 50A		PANEL PP-23
SPARE	15A	79	80	3P 50A		PANEL PP-23
SPARE	15A	81	82	15A		FURNITURE RECEPT
SPARE	15A	83	84	15A		FURNITURE RECEPT
SPARE	15A	85	86	15A		SPARE
SPARE	15A	87	88	15A		SPARE
SPARE	15A	89	90	15A		SPARE
SPARE	15A	91	92	15A		SPARE
SPARE	15A	93	94	15A		SPARE
-	-	95	96	-	-	-
-	-	97	98	-	-	-
-	-	99	100	-	-	-
-	-	101	102	-	-	-
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-	-	115	116	-	-	-
-	-	117	118	-	-	-
-	-	119	120	-	-	-
-	-	121	122	-	-	-
-	-	123	124	-	-	-
-	-	125	126	-	-	-
-	-	127	128	-	-	-
-	-	129	130	-	-	-
-	-	131	132	-	-	-
TOTAL x						TOTAL x
MAINS:	400A					VOLTS: 208Y/120V
MOUNTING:	RECESSED					LOCATION: BACK CORRIDOR 1021-A
MAIN BKR:	400A					FED FROM: B2 ELECTRICAL ROOM NEW 400A METER

ADDENDUM 2		2013/05/31
4 ISSUED FOR TENDER		2013/04/24
3 ISSUED FOR 99% CD REVIEW		2013/01/30
2 ISSUED FOR 66% CD REVIEW		2012/11/15
1 ISSUED FOR 33% REVIEW		2012/10/11
Revision/Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

Consultant Signature Only

Designed by/Concept par
ER

Drawn by/Dessiné par
AS

PWOSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

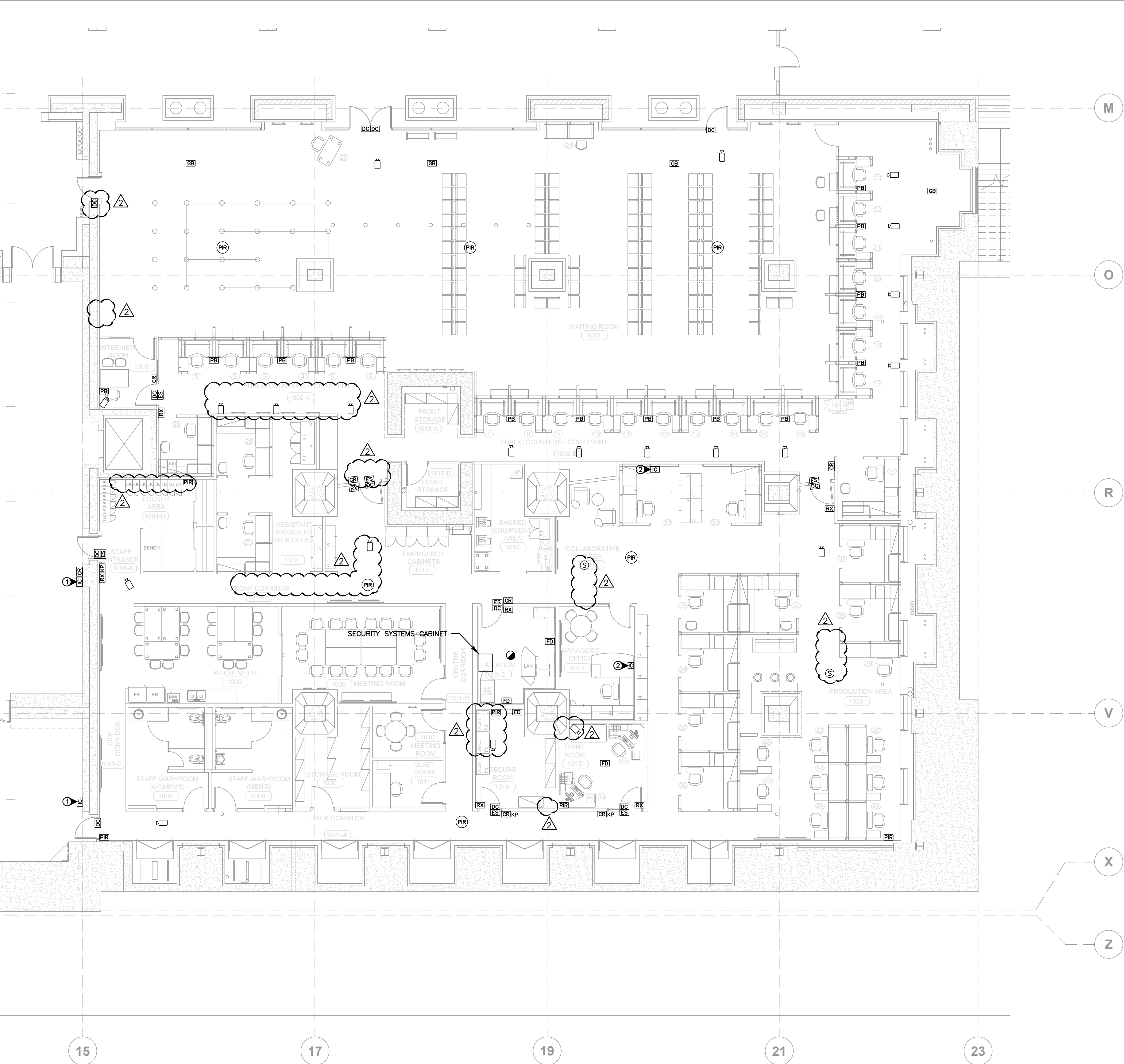
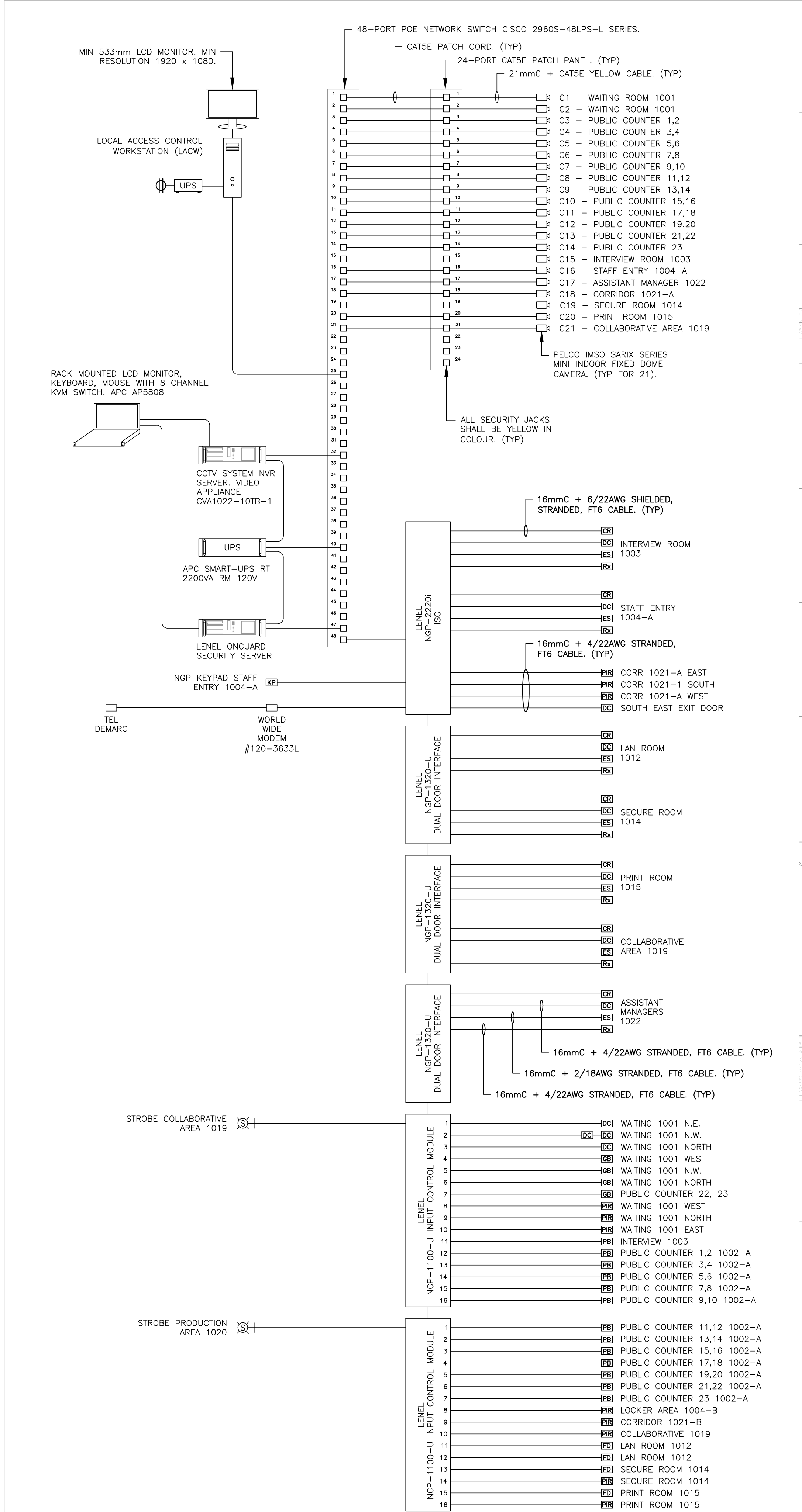
Drawing title/Titre du dessin

NEW PASSPORT OFFICE
POWER & COMMUNICATION
LEVEL B1 LOWER MALL (SE)

Project No./No. du projet
R.041365.001

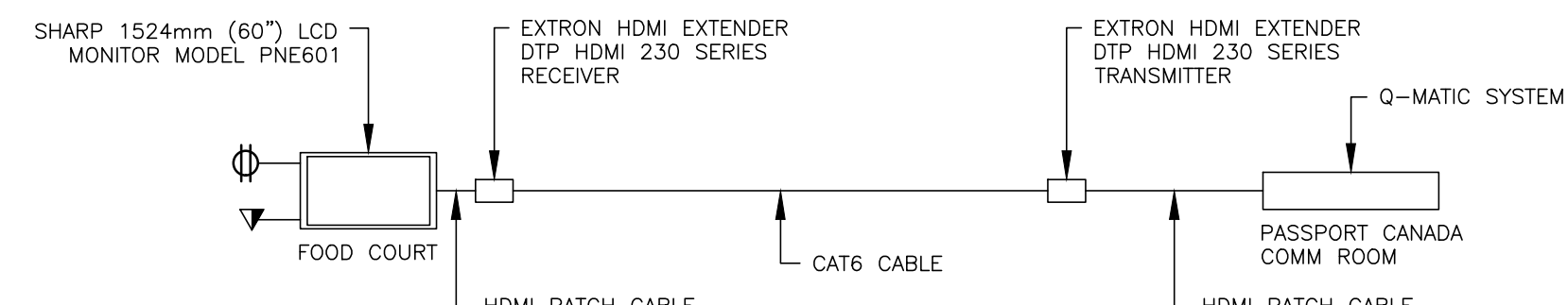
Sheet/Feuille
E15
OF 30

Revision no./
La Révision
no.
4



1 PASSPORT CANADA SECURITY SYSTEMS LAYOUT
SCALE: 1:100

- DRAWING KEY NOTES:
- 1 INTERCOM DOOR STATION C/W SPEAKER, CALL BUTTON AND CCTV CAMERA AIPHONE KB-DAR SERIES. DOOR RELEASE IS NOT REQUIRED.
- 2 INTERCOM MASTER STATION, HANDSET, LCD SCREEN. AIPHONE KB-3MRD SERIES.



3 Q-MATIC FOOD COURT LCD DISPLAY DETAIL
SCALE: NTS

2 PASSPORT CANADA SECURITY SYSTEMS WIRING LAYOUT
SCALE: NTS

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique

CHERNOFF THOMPSON ARCHITECTS

110-1241 West 4th Avenue, Suite 200, Vancouver, BC V6H 1A2
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AES
APPLIED ENGINEERING SOLUTIONS LIMITED
www.appliedengineering.ca
AES PROJECT NUMBER 2-12-085

PROJECT NORTH

CUSTOMS FEDERAL
WINCH ROSE OFFICE

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR 33X REVIEW	2012/10/11
2	ISSUED FOR 66X CD REVIEW	2012/11/15
3	ISSUED FOR 99X CD REVIEW	2013/01/30
4	ISSUED FOR TENDER	2013/04/24
ADDENDUM 2		2013/05/31

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER

**SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)**

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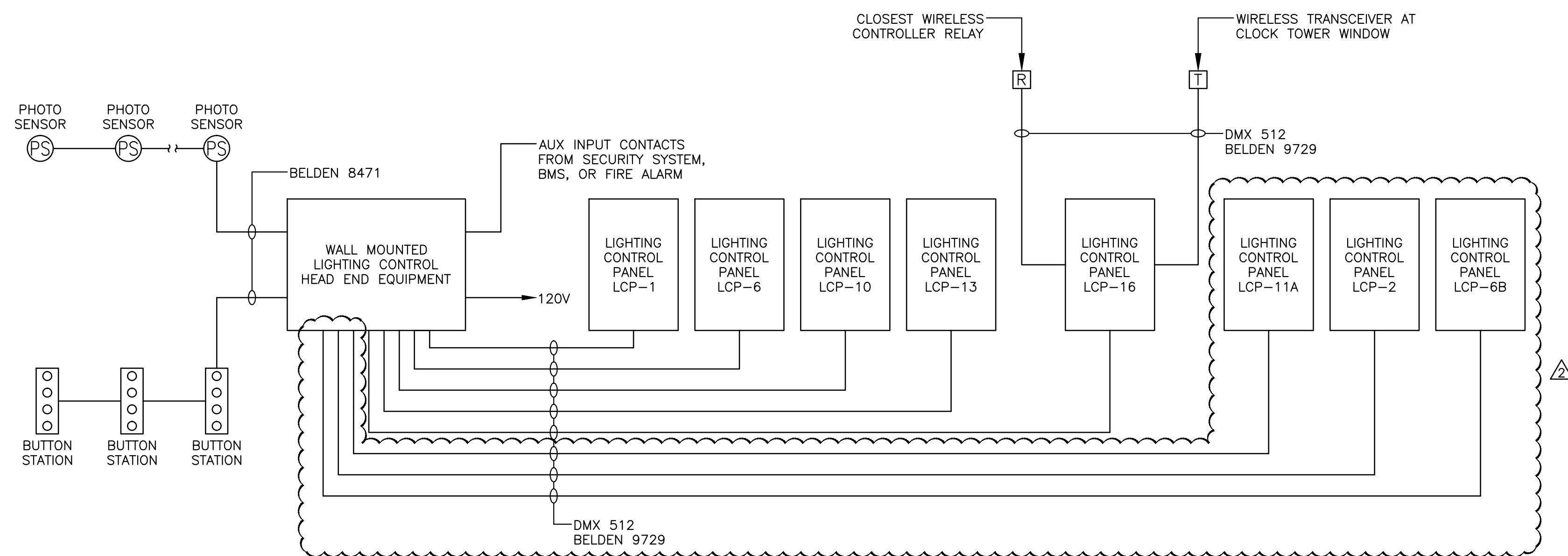
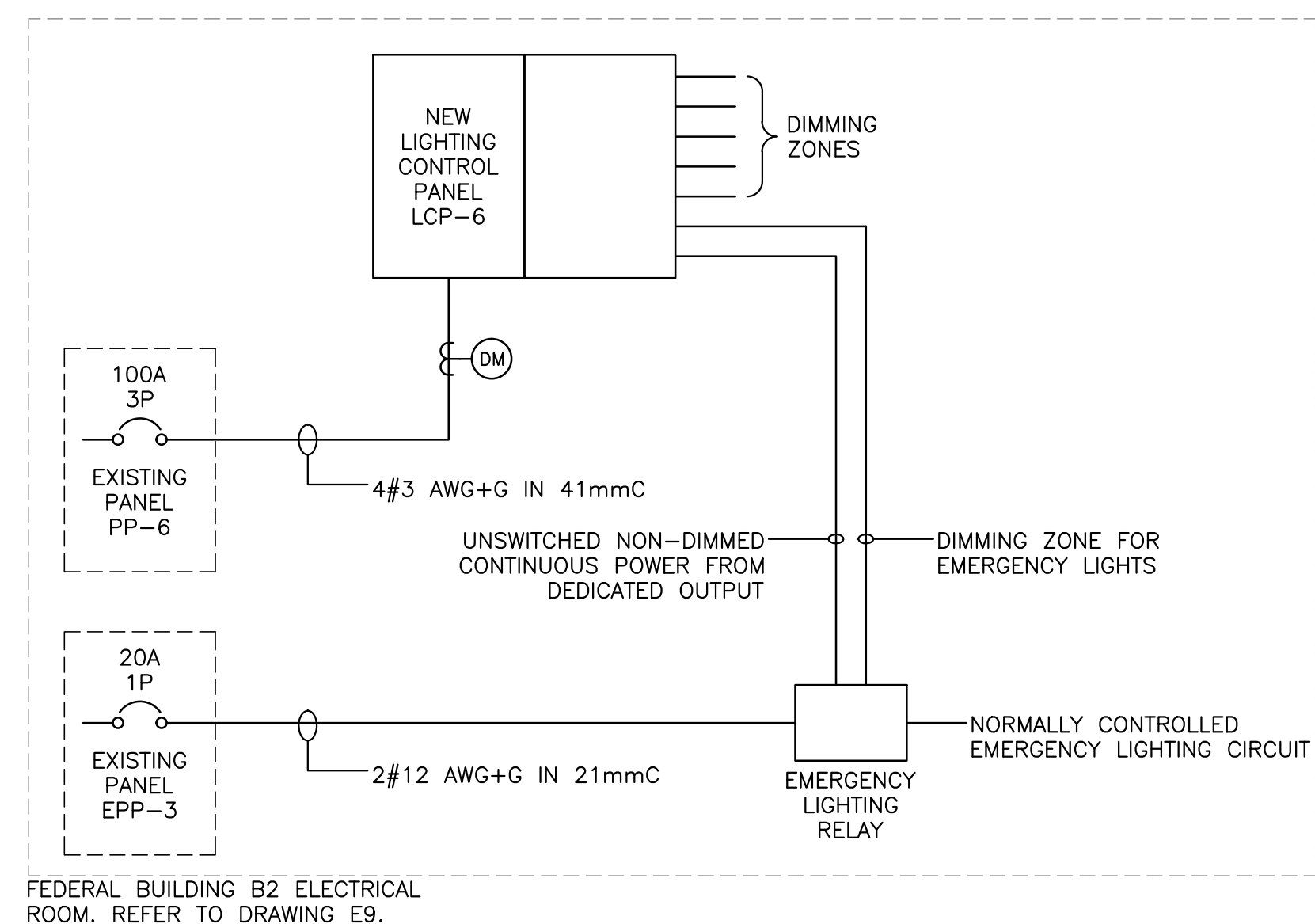
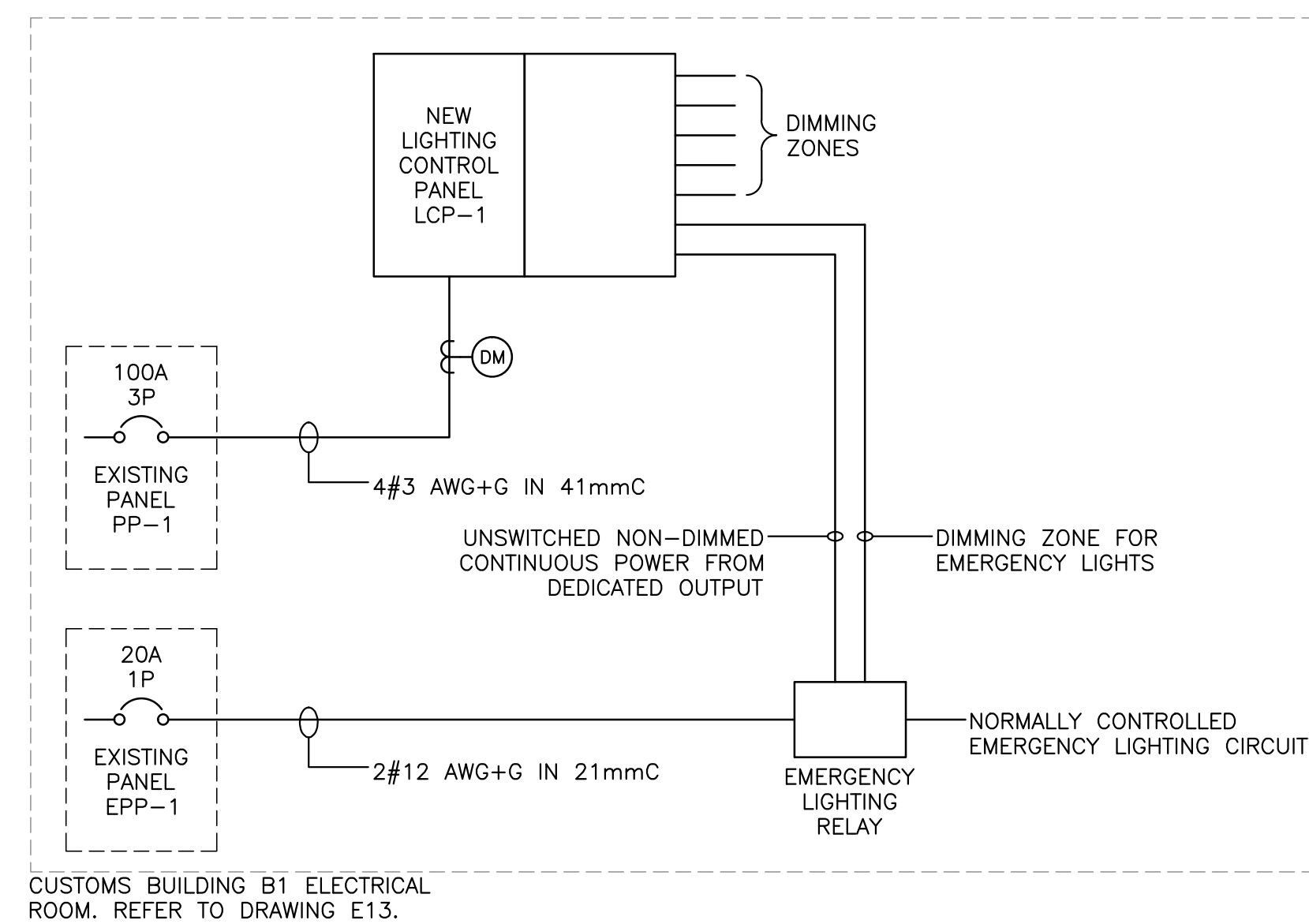
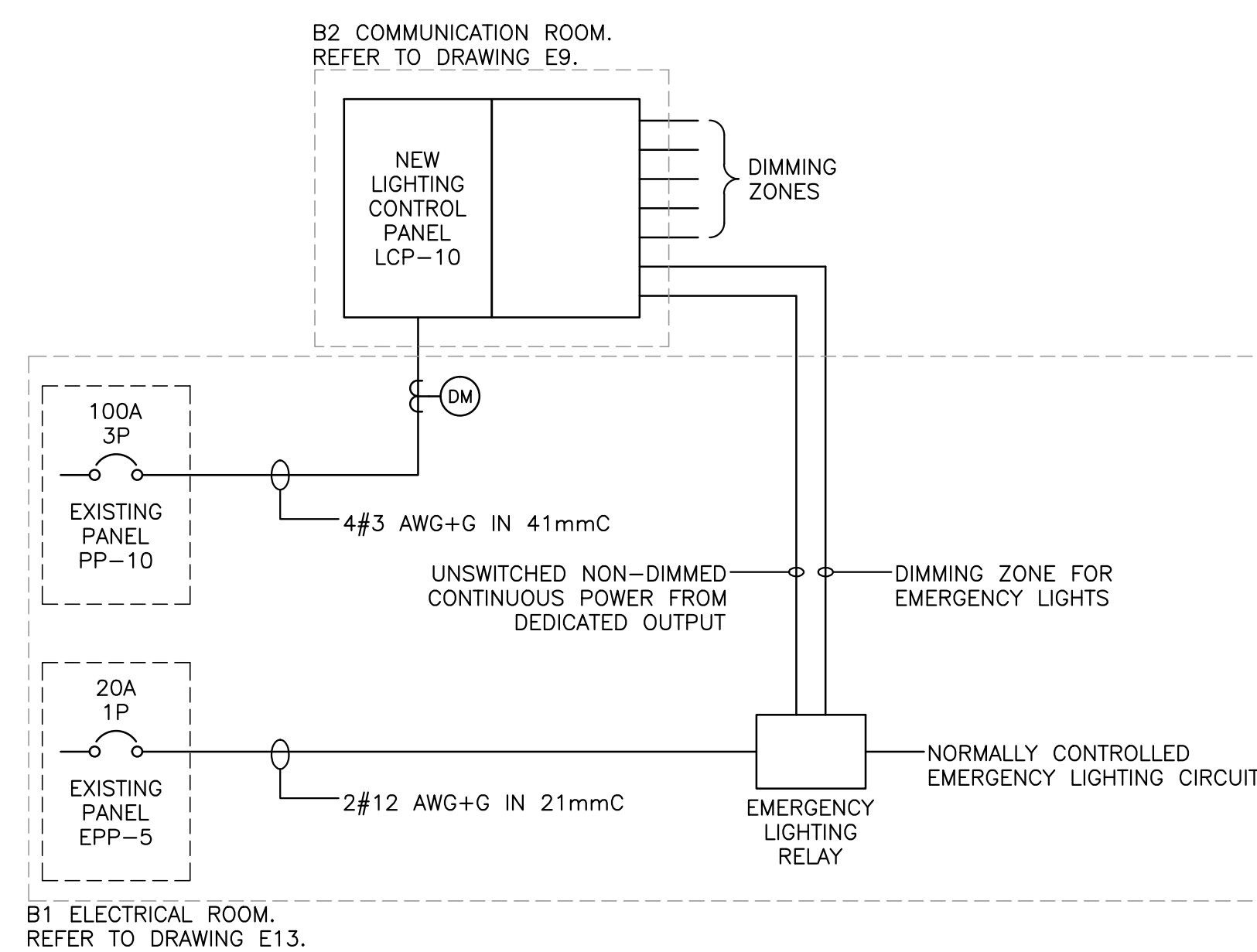
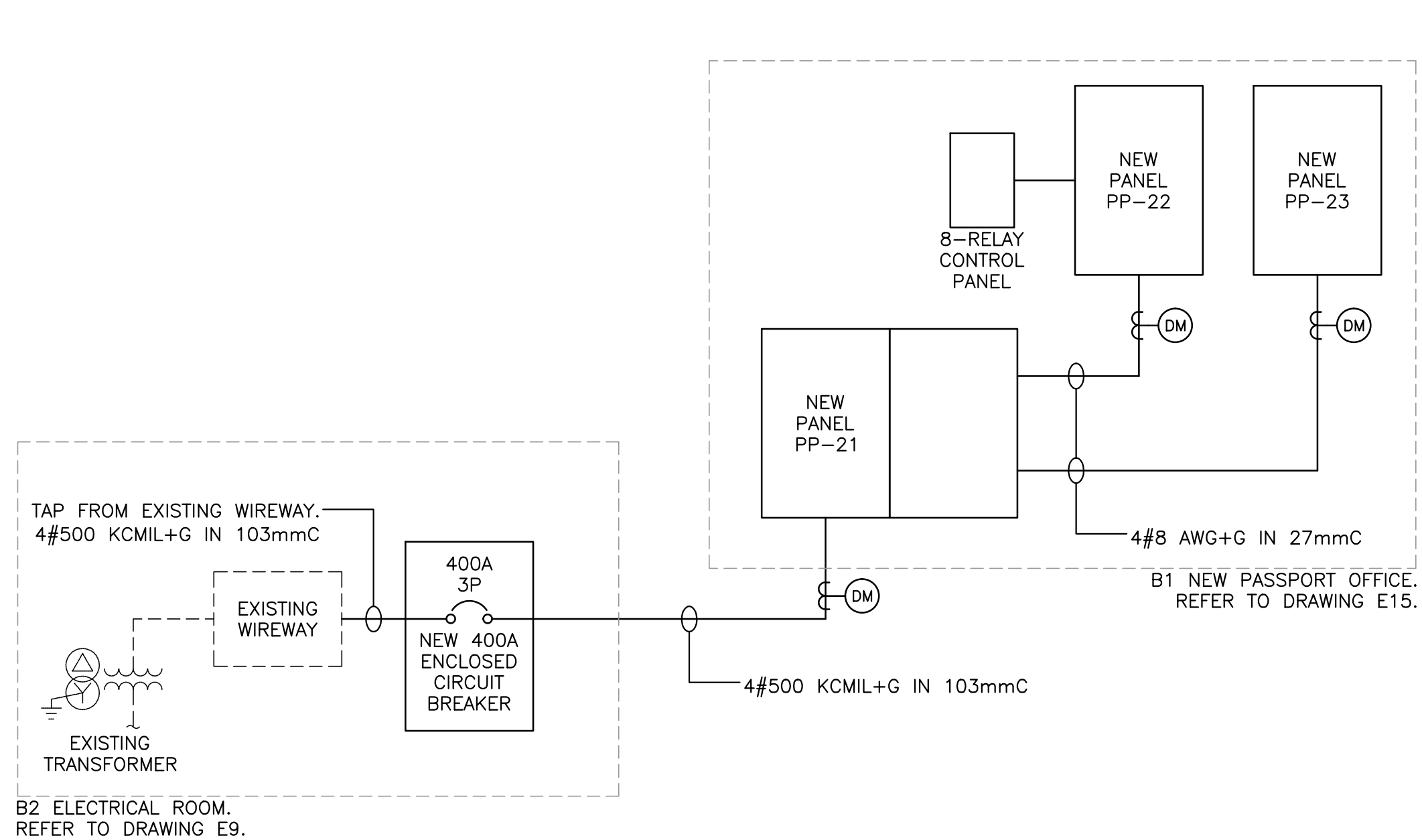
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PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
**NEW PASSPORT OFFICE
SECURITY
LEVEL B1 LOWER MALL (SE)**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.041365.001	E16 OF 30	4

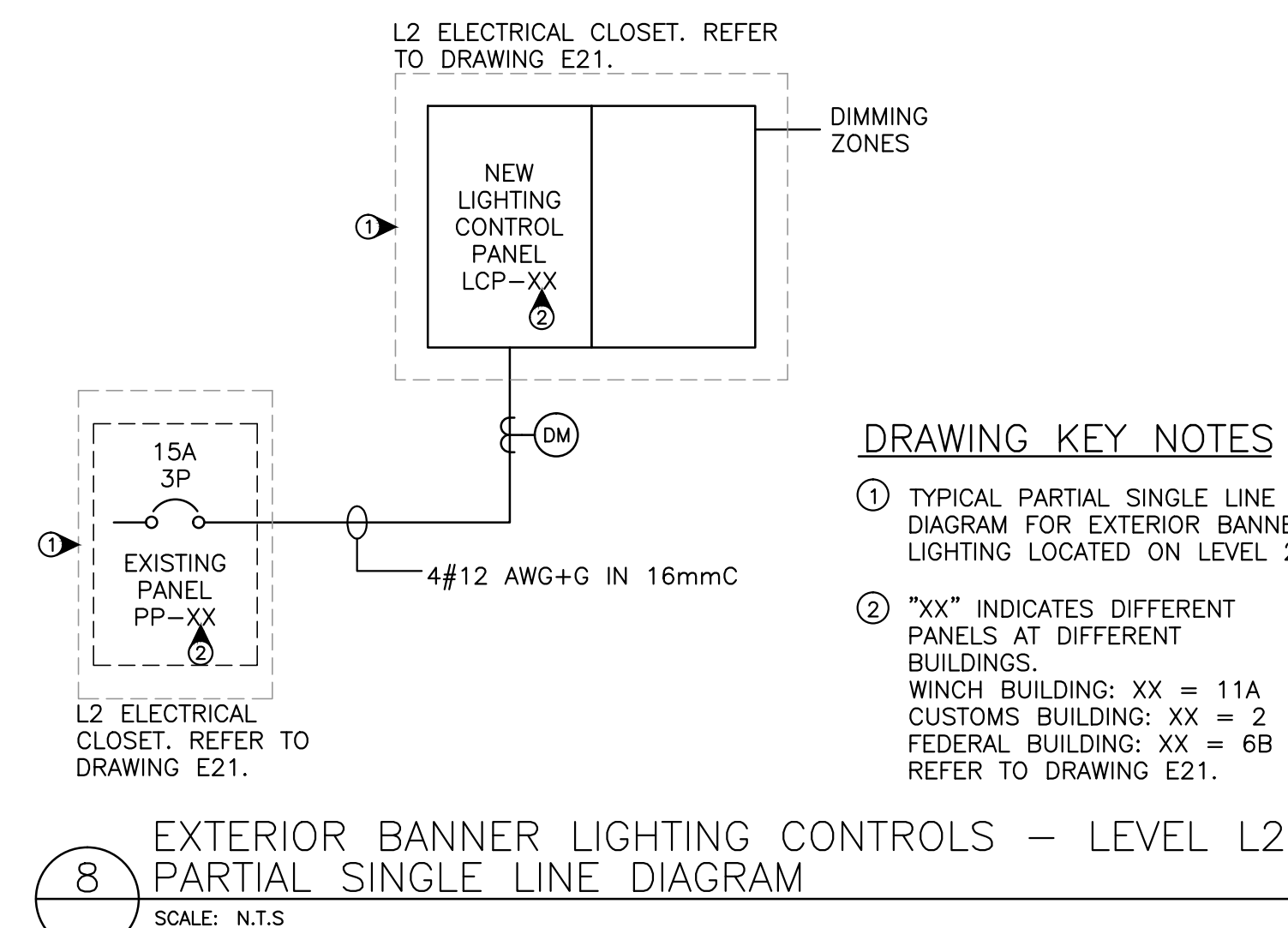
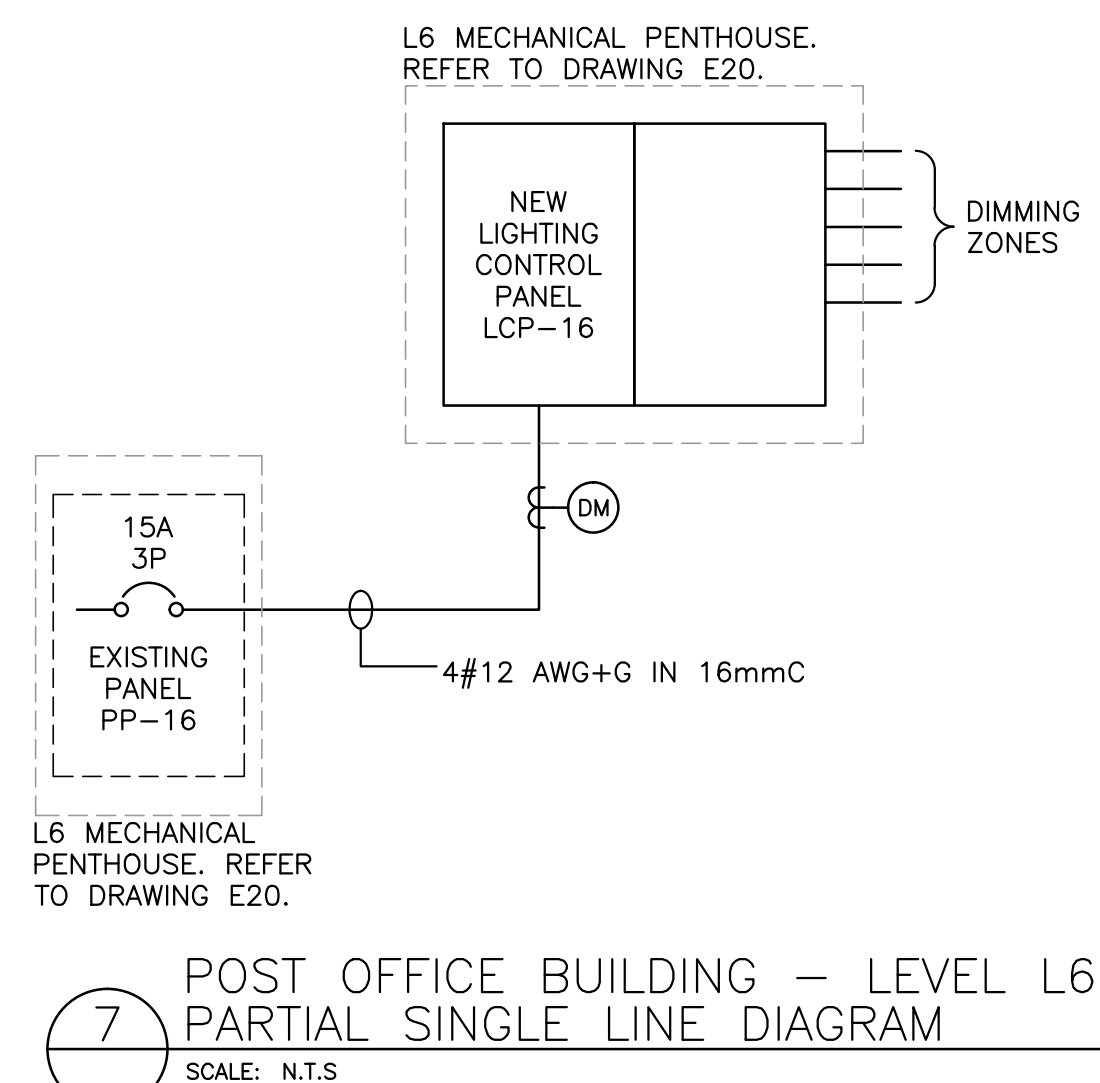
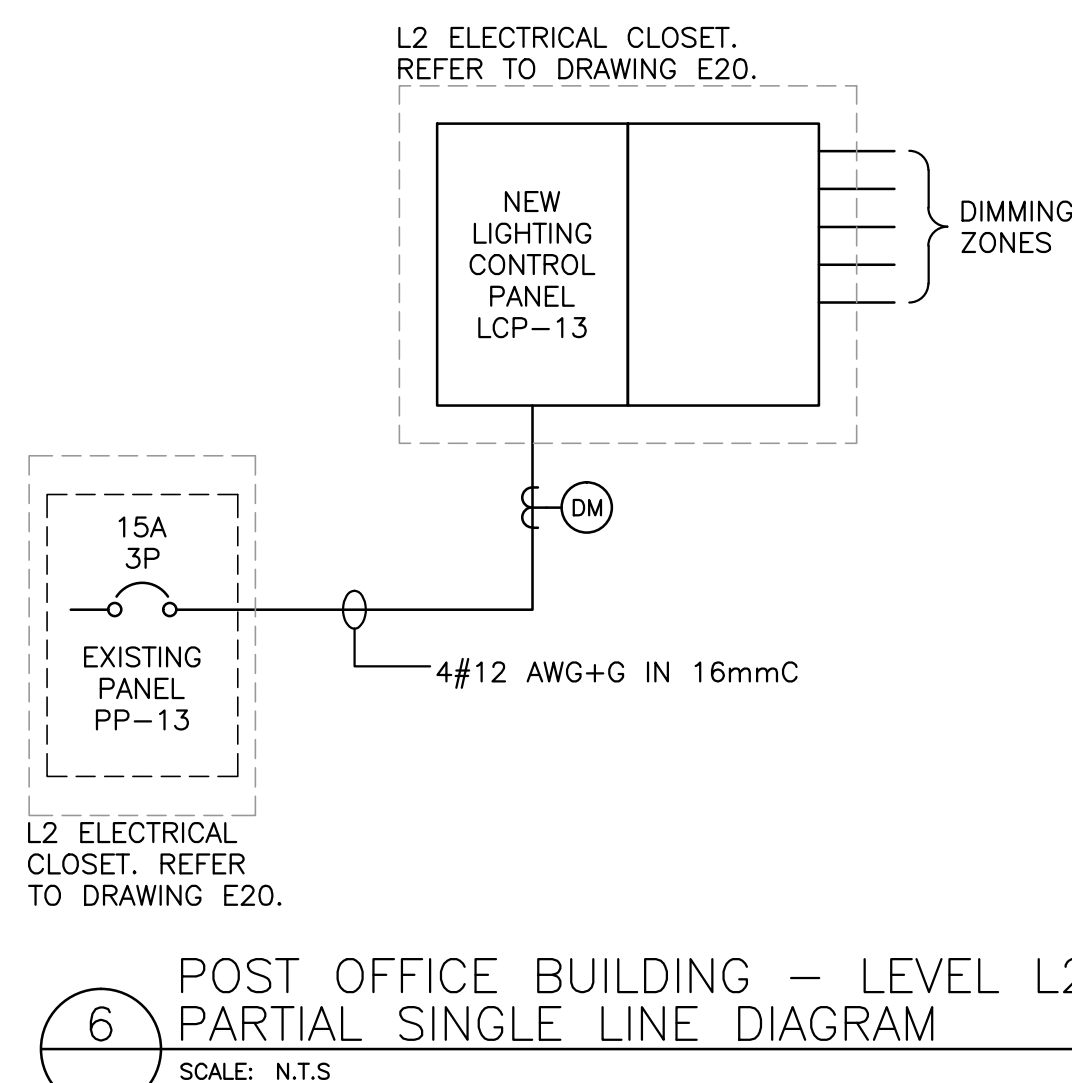


GENERAL NOTES:

A. LIGHTING CONTROL HEAD END EQUIPMENT SHALL BE DMX BASED SYSTEM. ARCHITECTURAL CONTROL PROCESSOR BASED CONTROL SYSTEM COMPLETE WITH WALL MOUNTED ENCLOSURE, POWER SUPPLIES, OUTPUT MODULES, RELAYS DIMMERS, BUTTON STATIONS, DAYLIGHT SENSORS. LIGHTING CONTROL PANELS LPCP-1 AND LPCP-6 SHALL BE 24 MODULES 24 CIRCUITS, PANELS LPCP-4 AND LPCP-6 SHALL BE 6 MODULES 12 CIRCUITS, AND PANEL LPCP-10 SHALL BE DOUBLE 12 MODULES 48 CIRCUITS COMPLETE WITH AUXILIARY RACK WITH 100A MAIN BREAKER, 208/120V 3-PHASE 4 WIRE. SYSTEM SHALL BE PROVIDED BY A SINGLE MANUFACTURER COMPLETE WITH PROGRAMMING AND COMMISSIONING. PROGRAMMING SHALL BE DONE UNDER SUPERVISION OF THE ARCHITECT/ENGINEER. SEE SPECIFICATIONS.

B. EMERGENCY LIGHTING RELAY SHALL BE BODINE GTD20A OR EQUIVALENT.

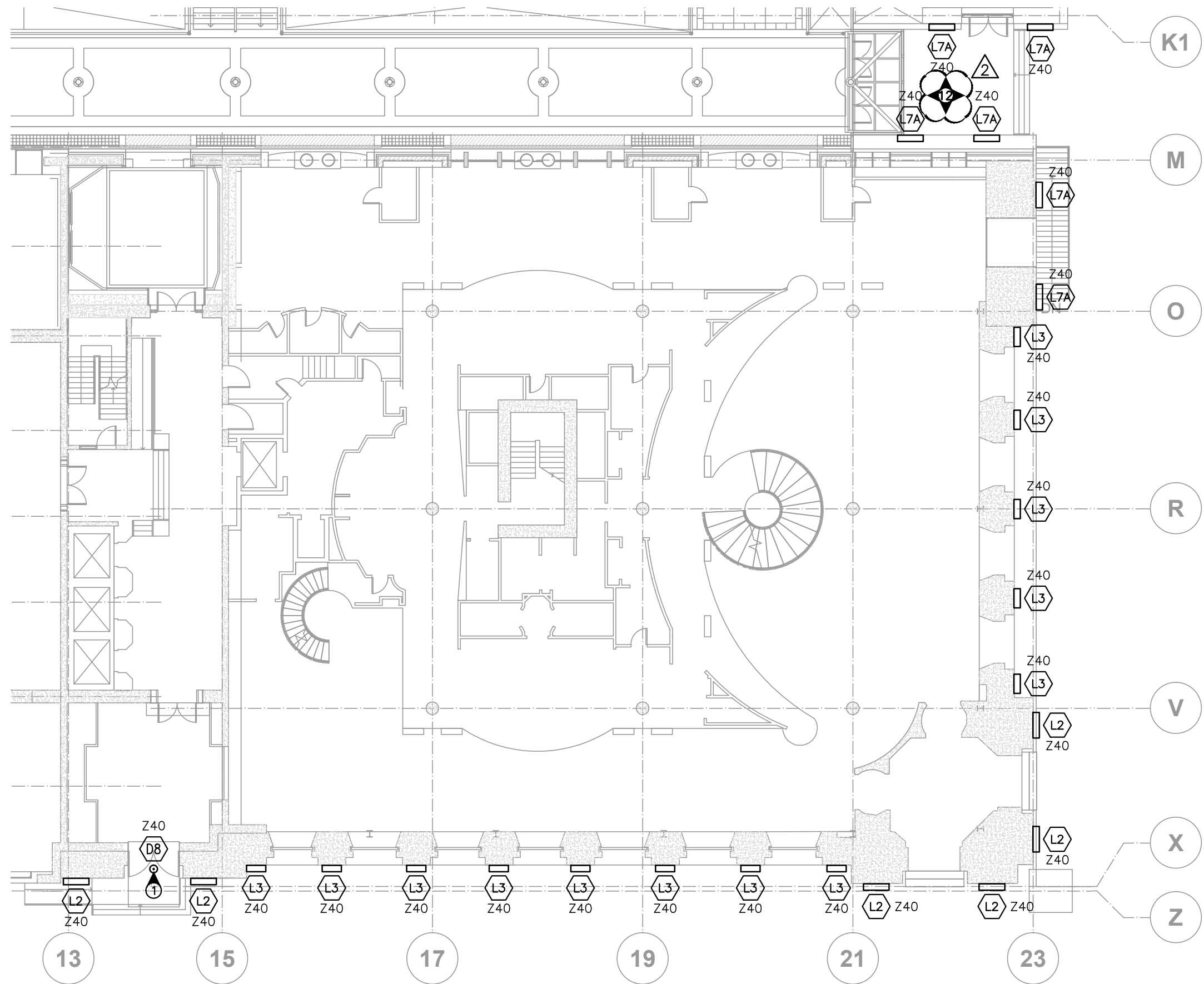
C. PROVIDE A COMPLETE DIGITAL METERING SYSTEM AS SHOWN ON SINGLE LINE DRAWING. METERS TO BE COMPLETE WITH ALL REQUIRED C/Ts, OUTPUT OPTIONS ETC. AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. ACCEPTABLE MANUFACTURER: QADLOGIC MINICLOSCT SC OR APPROVED EQUIVALENT. PROVIDE IP BASE CONNECTION TO DATA/COMMUNICATION SYSTEM FOR REMOTE MONITORING OF SYSTEM PERFORMANCE FROM DDC WORK STATION. ENERGY METERING SYSTEM TO LOG KWH, VOLTAGE, AMPERAGE, POWER FACTOR FOR MECHANICAL AND INSTANTANEOUS KW DEMAND.



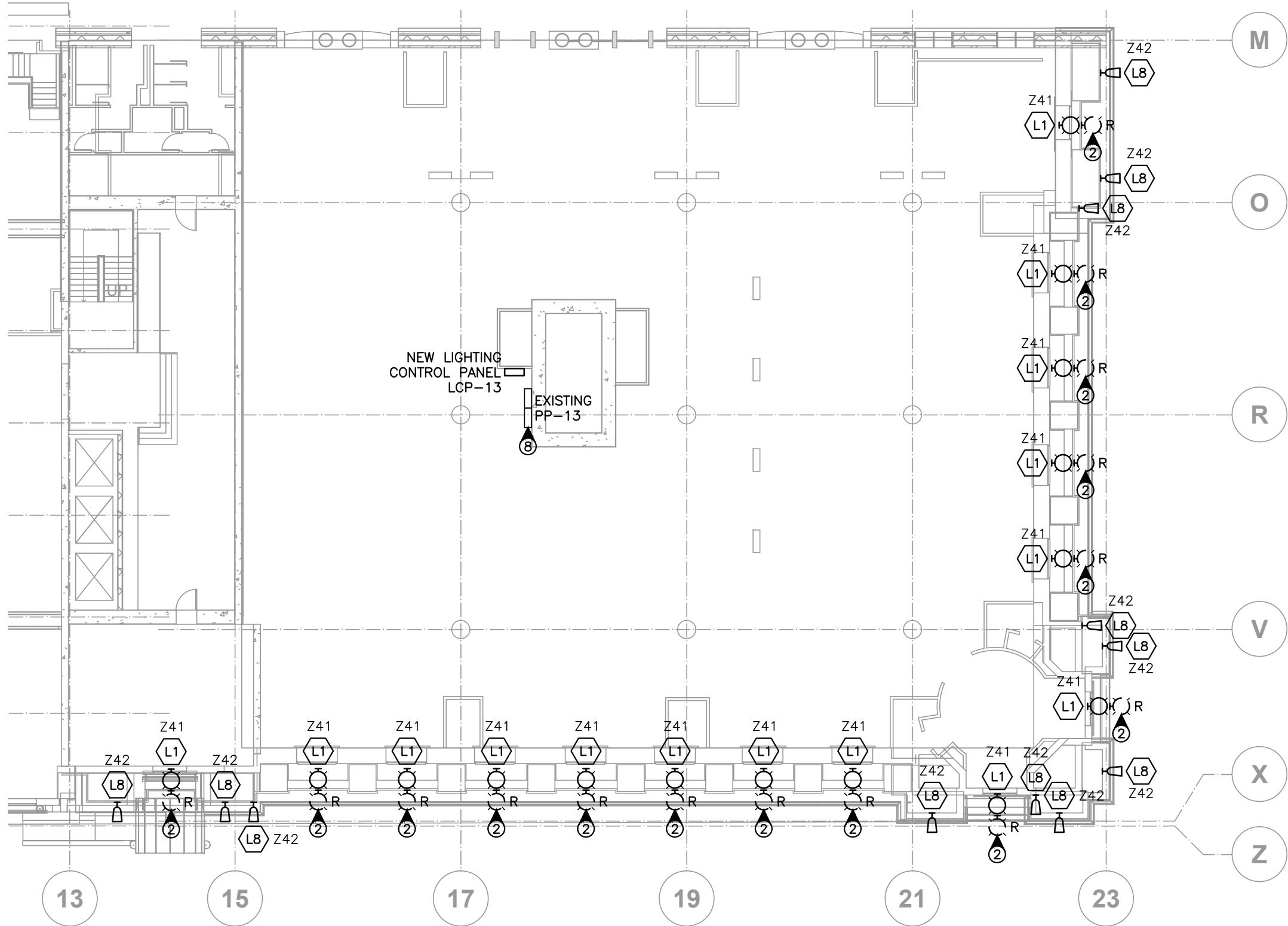
DRAWING KEY NOTES

① TYPICAL PARTIAL SINGLE LINE
DIAGRAM FOR EXTERIOR BANNER
LIGHTING LOCATED ON LEVEL 2.

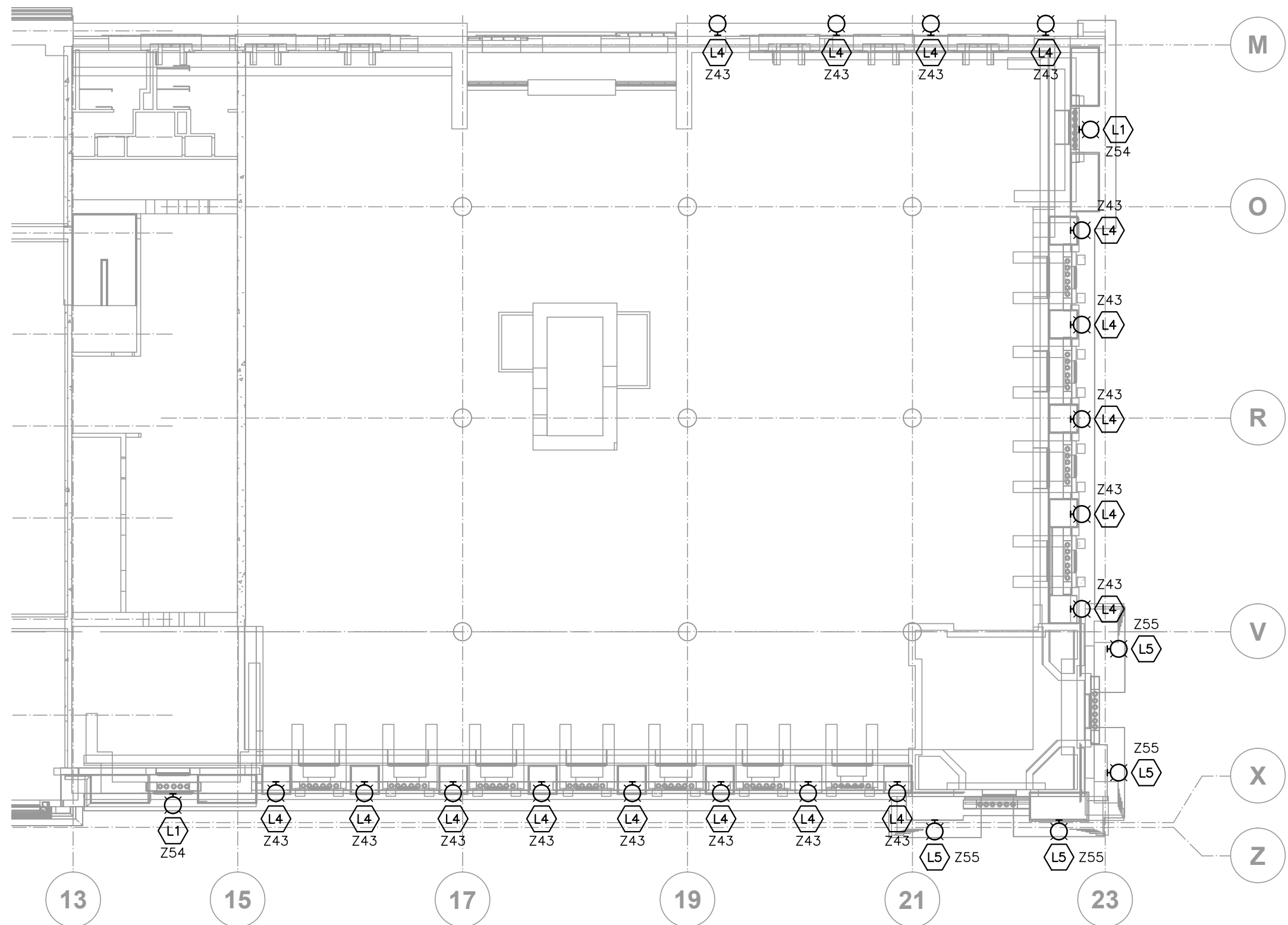
② "XX" INDICATES DIFFERENT
PANELS AT DIFFERENT
BUILDINGS.
WINCH BUILDING: XX = 11A
CUSTOMS BUILDING: XX = 2
FEDERAL BUILDING: XX = 6B
REFER TO DRAWING E21.



1 EXTERIOR LIGHTING – LEVEL L1 PLAN
SCALE: 1:200



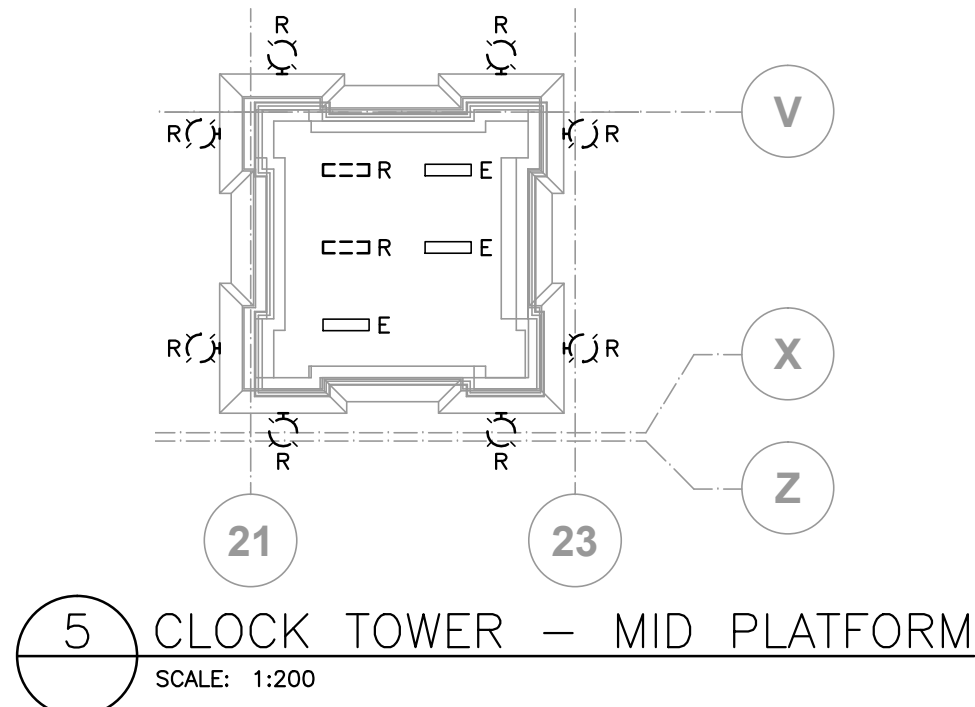
2 EXTERIOR LIGHTING – LEVEL L2 PLAN
SCALE: 1:200



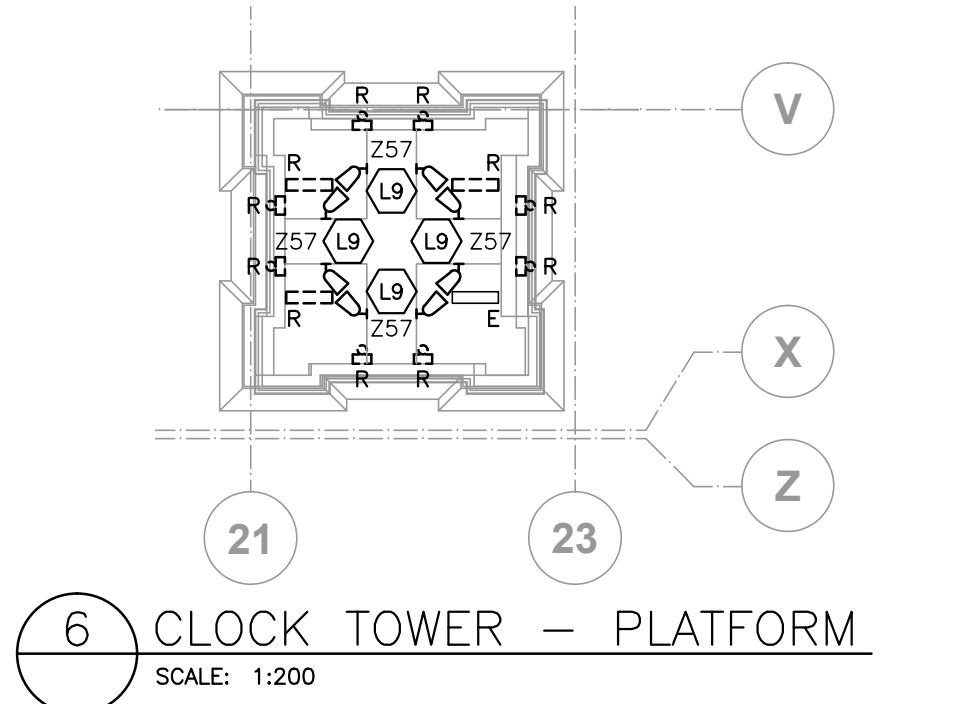
3 EXTERIOR LIGHTING – LEVEL L5 PLAN
SCALE: 1:200



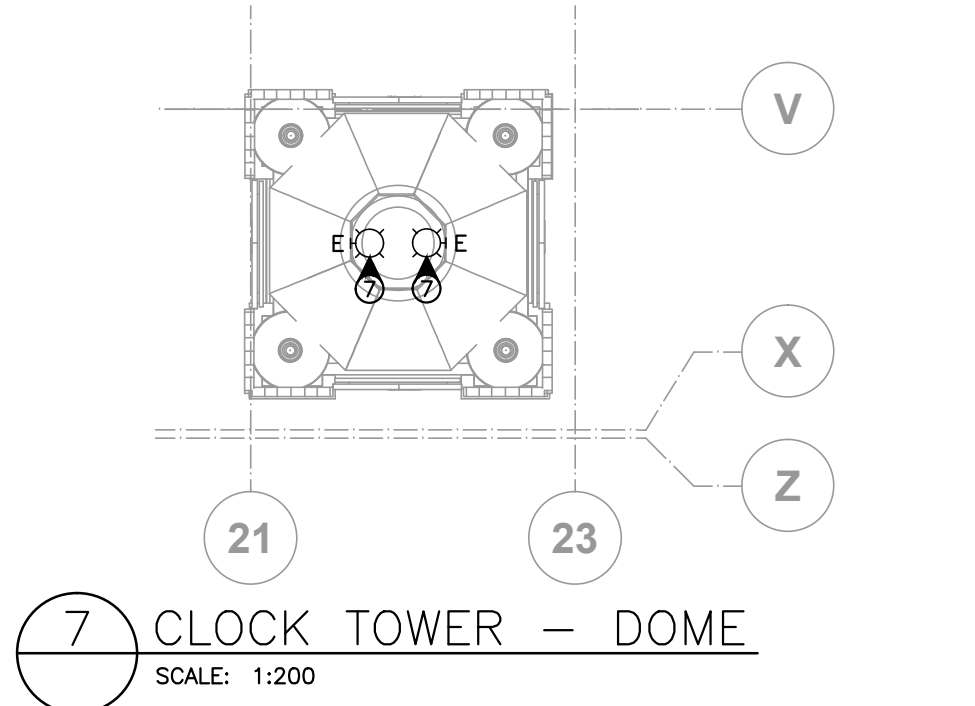
4 INTERIOR & EXTERIOR LIGHTING – LEVEL L6 & ROOF PLAN
SCALE: 1:200



5 CLOCK TOWER – MID PLATFORM
SCALE: 1:200



6 CLOCK TOWER – PLATFORM
SCALE: 1:200



7 CLOCK TOWER – DOME
SCALE: 1:200

LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z40	LCP-10-28
Z41	LCP-13-1
Z42	LCP-13-2
Z43	LCP-16-1
Z54	LCP-16-2
Z55	LCP-16-3
Z56	LCP-16-4
Z57	LCP-16-5
Z58	LCP-16-6

GENERAL NOTES:

- ALL MOUNTING TO BE CONFIRMED BY THE ARCHITECT.
- ALL OCCUPANCY SENSORS SHOWN ON THIS DRAWING ARE WIRELESS TYPE.
- REMOVE ALL EXISTING EXTERIOR LIGHTING FROM POST OFFICE BALCONIES AND CLOCK TOWER AND MAKE GOOD. REUSED EXISTING WIRING AND CONDUITS WHERE FEASIBLE.
- ALL L1 TYPE FIXTURES SHALL BE CENTERED ON THE WINDOWS AND LOCATED APPROXIMATELY 30mm IN FRONT OF THE FACADE. FIXTURES SHALL BE MOUNTED TO AN EXTERIOR JUNCTION BOX SURFACE FLOOR MOUNTED WITH +/- 10 DEGREES TILT TOWARDS THE BUILDING. FINAL PLACEMENT OF LUMINAIRES TO BE REVIEWED AND APPROVED BY THE LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- ALL CIRCUITS AND WIRING FOR EXISTING LIGHTING TO BE REMOVED SHALL BE RETAINED FOR RECONNECTION TO NEW LIGHT FIXTURES AND CONTROL PANELS TO THE EXTENT POSSIBLE. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- INTERCEPT EXISTING LIGHTING CIRCUITS WHICH ARE TO BE REMOVED FROM PANEL SOURCES AND EXTEND THEM TO NEW LIGHTING CONTROL PANELS AS SPECIFIED. PROVIDE JUNCTION BOXES ADJACENT TO EXISTING SOURCE PANELS AS REQUIRED FOR EXTENSION. RECONNECT ZONE CIRCUITS BACK TO NEW LIGHT FIXTURES AS SPECIFIED. PROVIDE NEW CONDUIT AND WIRING AS NEEDED. MINIMIZE NEW PENETRATIONS AND EXPOSED RACEWAY ON EXISTING SURFACES.
- FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
- FOCUSING/AIMING OF ALL ADJUSTABLE LUMINAIRES AND SETTING OF DIMMING LEVELS SHALL BE PERFORMED 3 HOURS AFTER SUNSET UNDER DIRECTION OF LIGHTING DESIGNER (TOTAL LIGHTING SOLUTIONS).
- REMOVE 10 EXISTING SWITCHES ON LEVEL L6. SPLICE WIRE BACK TOGETHER AND INSTALL WIRELESS SWITCH STATIONS. EXACT QUANTITY OF SWITCHES TO BE VERIFIED ON SITE.
- REFER TO APPENDIX A FOR LUMINAIRE SCHEDULE.
- FINAL LOCATIONS OF LUMINAIRES ON SECOND FLOOR BALCONIES AND ON THE ROOF TO BE AS DIRECTED ON SITE BY LIGHTING DESIGNER PRIOR TO INSTALLATION. FIXTURES TO BE ENERGIZED AT THE TIME OF REVIEW AND REVIEW TO TAKE PLACE AFTER DAR.

DRAWING KEY NOTES:

- REMOVE EXISTING LIGHTING FIXTURE. REPLACED WITH NEW TYPE D8 LUMINAIRE. TURN OVER REMOVED FIXTURE TO DEPARTMENTAL REPRESENTATIVE.
- REMOVE EXISTING FLOODLIGHTS. REPLACE EVERY SECOND FLOODLIGHT WITH A SURFACE MOUNTED, WET LOCATION RATED ENCLOSURE TO HOUSE TRANSFORMER AND DIMMING DRIVER WHICH WILL BE SHARED BETWEEN TWO L1 TYPE FIXTURES (TYPICAL).
- LIGHTING IN THIS ZONE TO BE CONTROLLED SEPARATELY FROM PERIMETER ZONE. ALL EXISTING LIGHTING IN THIS ZONE TO BE ON ZONE 56.
- LIGHTING IN THE PERIMETER ZONE SHALL BE CONTROLLED SEPARATELY FROM THE INTERIOR ZONE. BY THE OCCUPANCY SENSOR DURING THE DAY AND BY TIME BASED AUTOMATED CONTROL DURING THE TIME WHEN FACADE LIGHTING IS TURNED ON.
- QUANTITY OF RELAY IS BASED ON ELECTRICAL AS-BUILT DRAWINGS. CONTRACTOR TO VERIFY ON SITE. A RELAY IS REQUIRED FOR EACH EXISTING CIRCUIT WITH EACH CONTROL SPACE (TYPICAL).
- WIRELESS CEILING MOUNTED OCCUPANCY SENSOR. CONTRACTOR IS RESPONSIBLE TO FIND SUITABLE LOCATION IN FIELD (TYPICAL).
- EXISTING LUMINAIRE TO REMAIN. INSTALLED NEW 3000K CFL LAMP. FOCUS FIXTURE TOWARDS WINDOWS ABOVE.
- REARRANGE EXISTING PANEL BREAKERS TO ACCEPT 3-POLE BREAKER.
- REMOVE EXISTING LIGHTING FIXTURE LOCATED ON ROOF.
- THREE TYPE L6 LUMINAIRES TO BE INSTALLED ON ROOF. EXACT LOCATION TBD. PROVIDE 10' OF FLEX, COILED CABLE FOR EACH LUMINAIRE.
- WIRELESS TRANSCEIVER FOR CONTROL OF LIGHTS ON BIRKS BUILDING ROOF. SEE DRAWING E28. PROVIDE 120V CONNECTION FROM CLOSEST UN-SWITCHED SOURCE. MOUNT INSIDE THE WINDOW. AIM AT BIRKS BUILDING ROOF. DMX CONTROL FROM LCP-16 LOOP.
- REFER TO DRAWING E4 FOR ENLARGED DETAIL OF THIS AREA.

Revision/Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet
757 W HASTINGS ST, VANCOUVER
SINCLAIR CENTRE
SINCLAIR CENTRE
REVITALIZATION
PROJECT
(PHASE 2)

Consultant Signature Only

Designed by/Concept par

ER

Drawn by/Dessine par

AS

PWOSC Project Manager/Administrateur de Projets TPSGC

TOM DUNPHY

Regional Manager, Architectural and Engineering Services

Gestionnaire régionale, Services d'architecture et de génie, TPSGC

PREETIPAL PAUL

Drawing title/Titre du dessin

EXTERIOR LIGHTING

LEVEL L1, L2, L5, L6 & ROOF PLAN

Project No./No. du

project

R.041365.001

Sheet/Feuille

E20


OF 30

Revision no./

La Révision

no.

4

	ADDENDUM 2	2013/05/31
4	ISSUED FOR TENDER	2013/04/24
3	ISSUED FOR 99% CD REVIEW	2013/01/30
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Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL


Drawing title/Titre du dessin
EXTERIOR BANNER LIGHTING PLAN

Project No./No. du projet R.041365.001	Sheet/ Feuille E21 OF 30	Revision no./ La Révision no. 4
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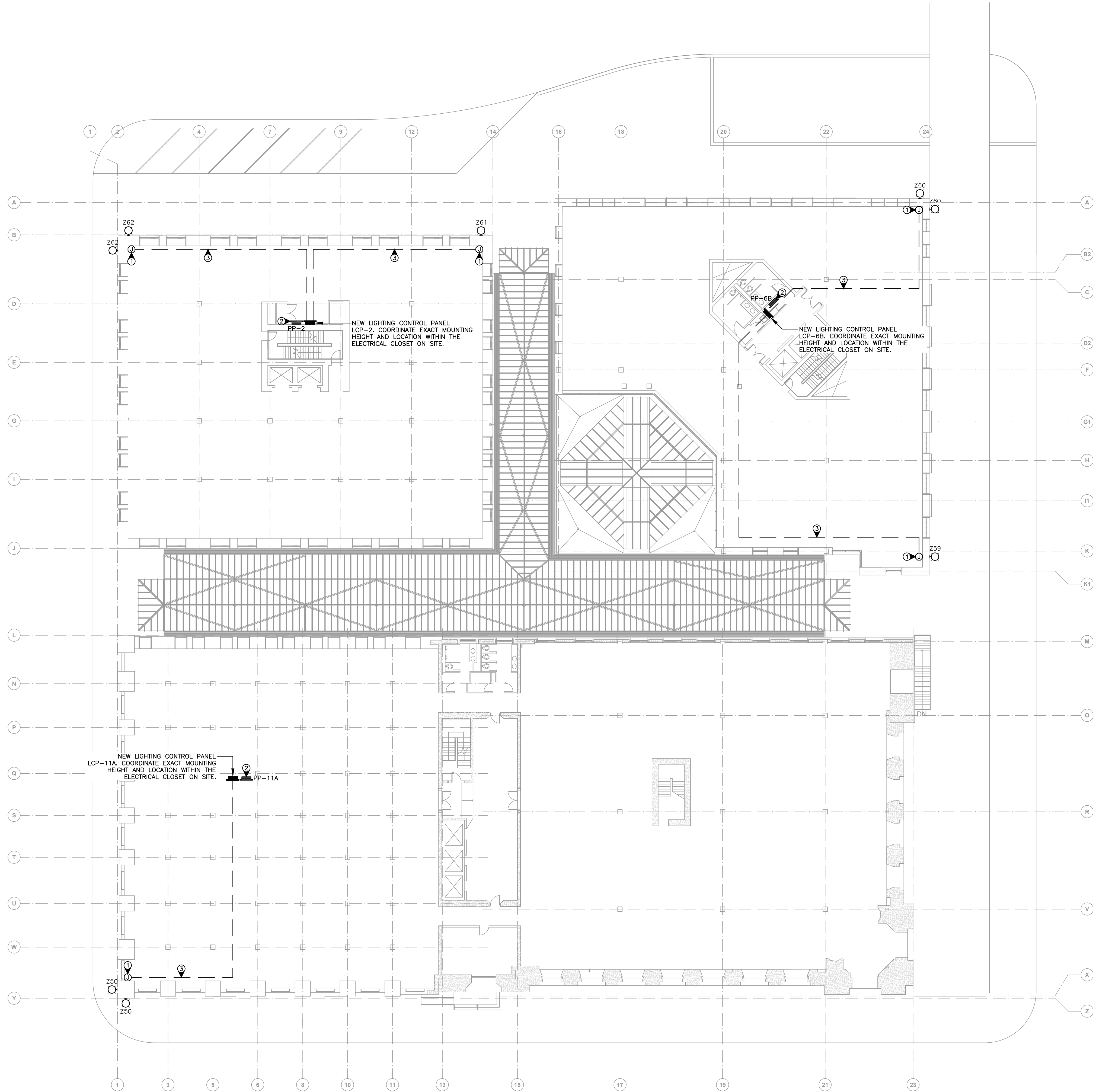
DRAWING KEY NOTES:

- JUNCTION BOX LOCATED ON LEVEL L2 INTERIOR FOR EXTERIOR BANNER LIGHTING.
- APPROXIMATE LOCATION OF EXISTING PANELS. REFER TO DRAWING E17 FOR PARTIAL SINGLE LINE DIAGRAM.
- CONDUIT TO BE ON THE CEILING SPACE, EXACT ROUTING TO BE COORDINATED ON SITE.

GENERAL NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR EXTENDING WIRING AS REQUIRED TO ACHIEVE NEW DESIGN INTENT. NEW WIRING IS REQUIRED AS NEEDED FOR NEW DIMMING AND ZONING. THE INTENT IS TO MINIMIZE NEW EXPOSED CONDUIT AND PENETRATIONS TO EXISTING ARCHITECTURAL FINISHES.
- B. FINAL COMMISSIONING AND PARAMETER SETTINGS FOR LIGHTING CONTROL SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF ARCHITECT/ENGINEER/LIGHTING DESIGNER.
-  C. COORDINATE WORK AFTER BUSINESS HOURS.

LIGHTING CONTROL ZONES	LIGHTING CONTROL PANEL RELAYS
Z50	LCP-11A-1
Z59	LCP-6B-1
Z60	LCP-6B-2
Z61	LCP-2-1
Z62	LCP-2-2



1 EXTERIOR BANNER LIGHTING PLAN
SCALE: 1:200



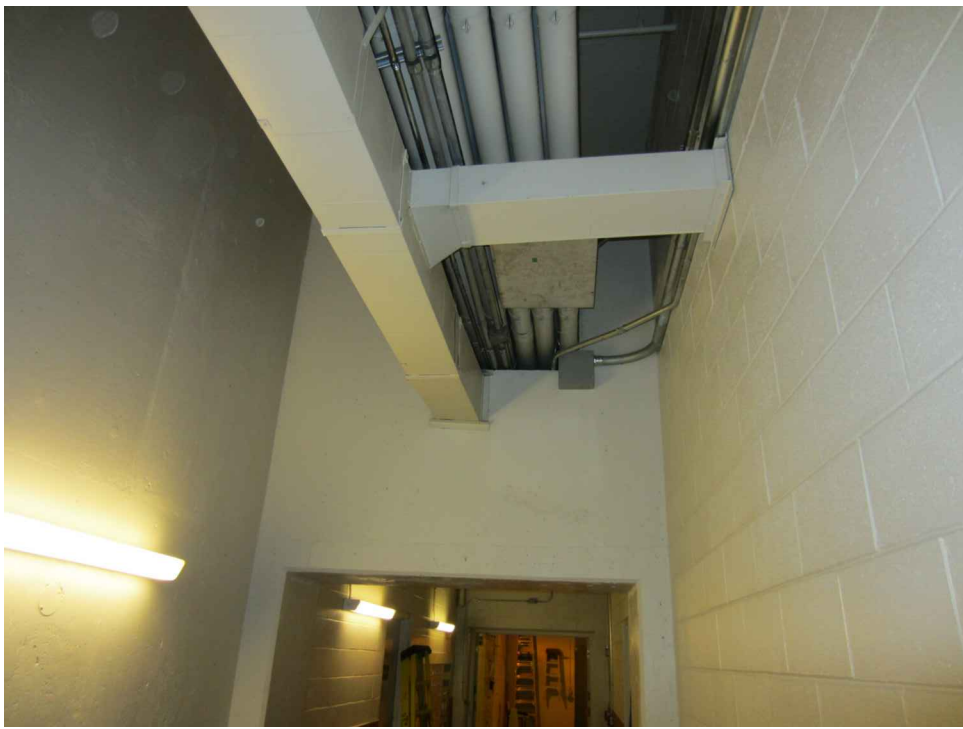
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SCALE: N.T.S



2 POWER DETAIL B
SCALE: N.T.S



3 POWER DETAIL C
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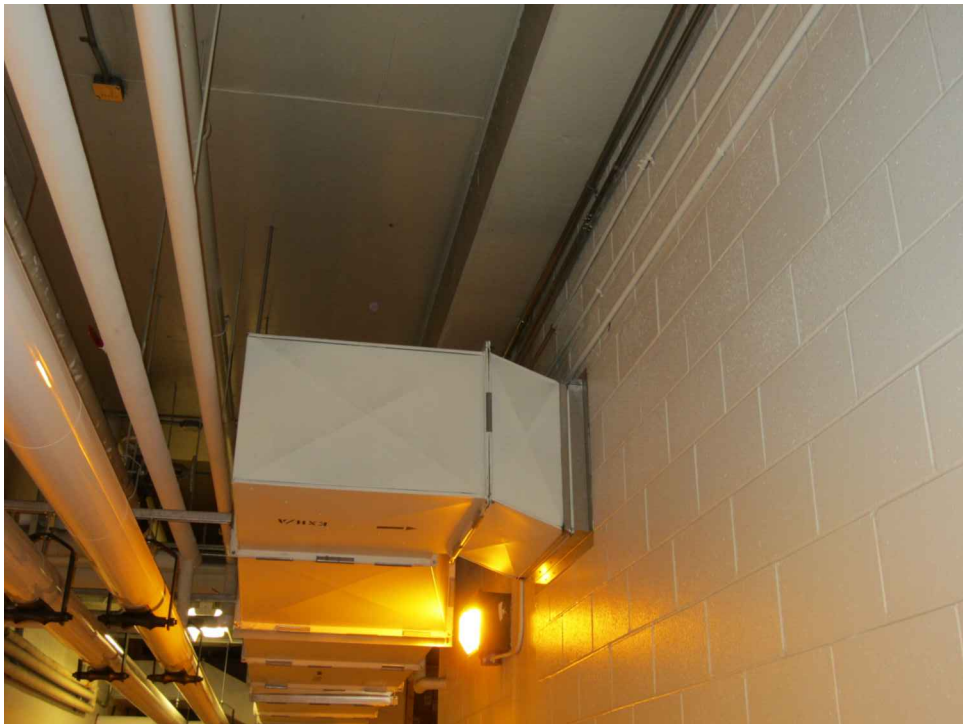
4 POWER DETAIL D
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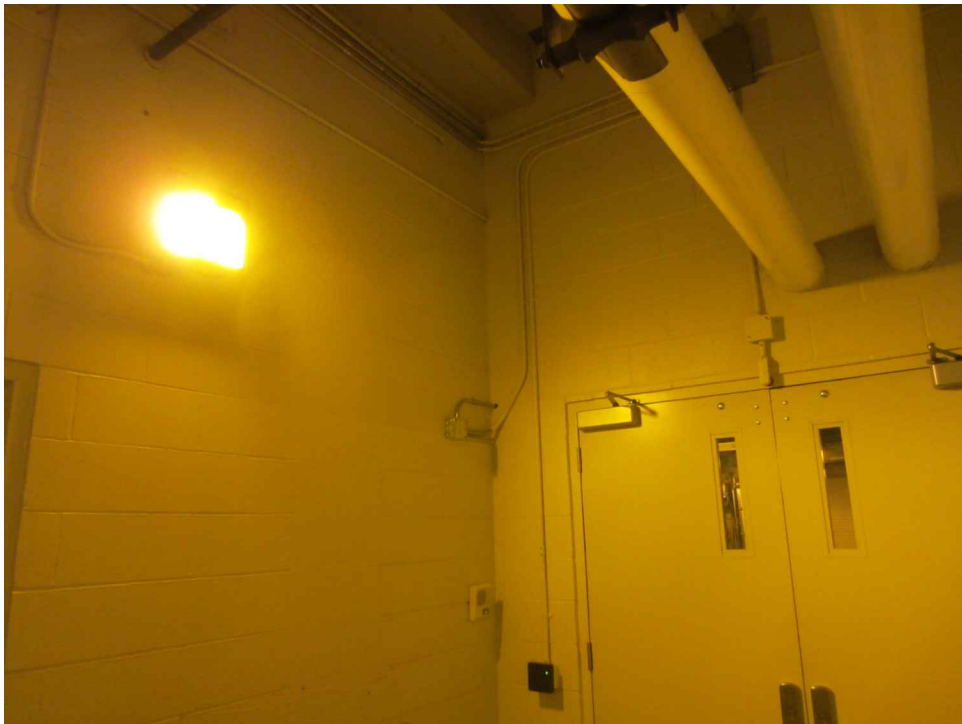
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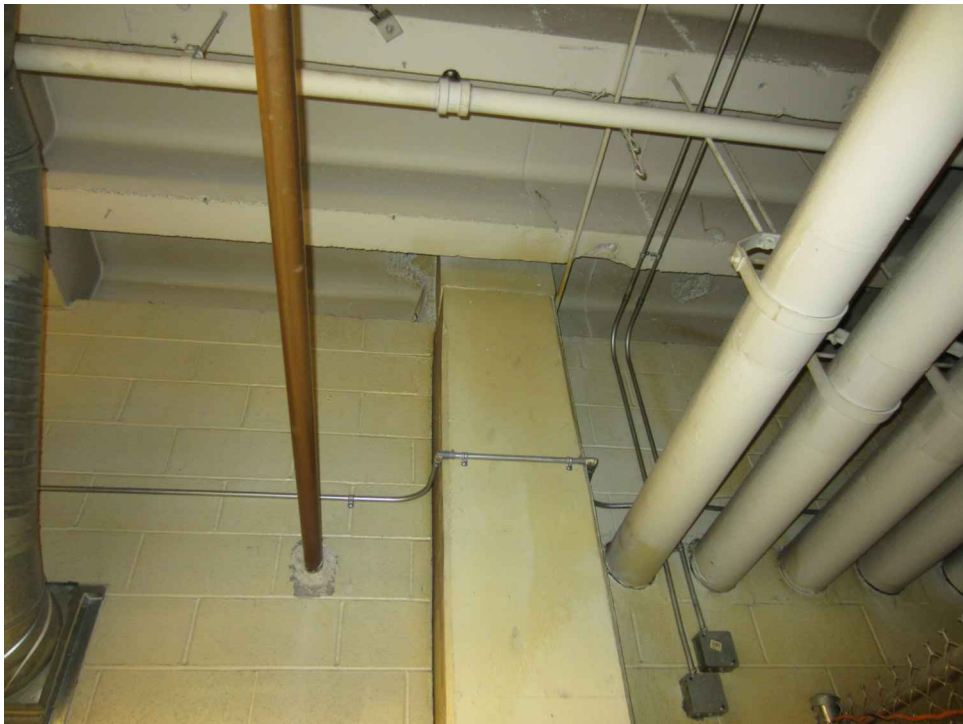
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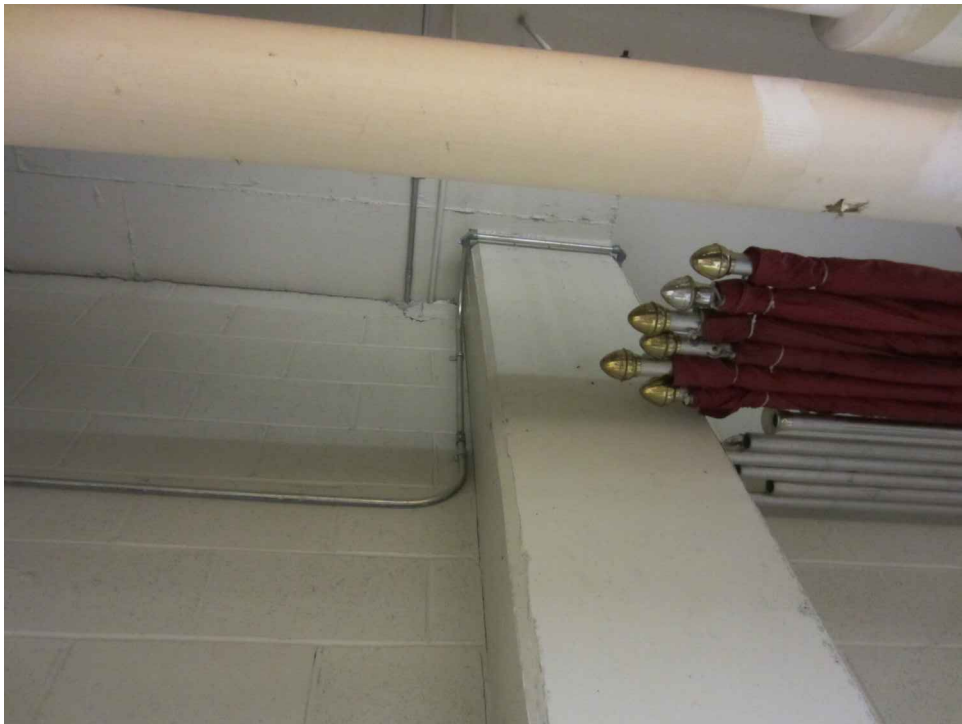
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8 POWER DETAIL H
SCALE: N.T.S



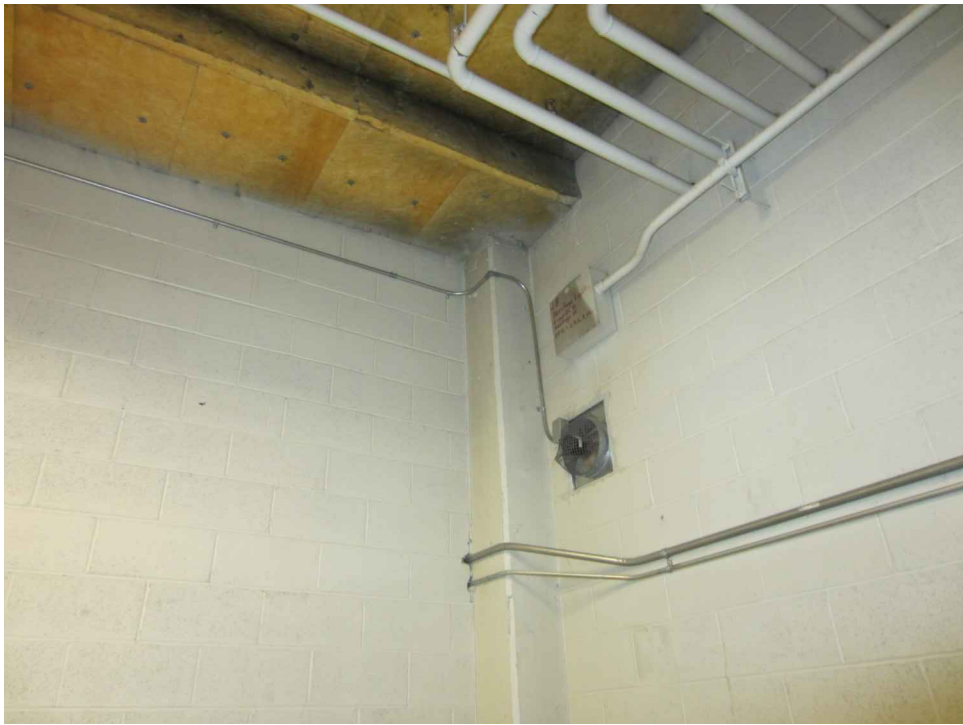
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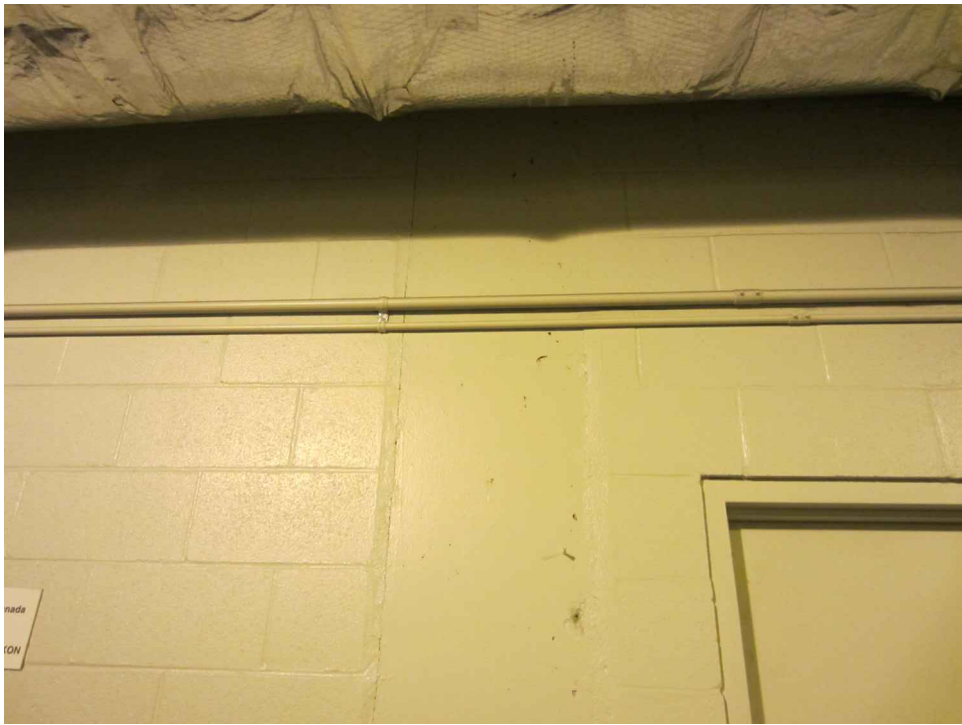
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11 POWER DETAIL L
SCALE: N.T.S



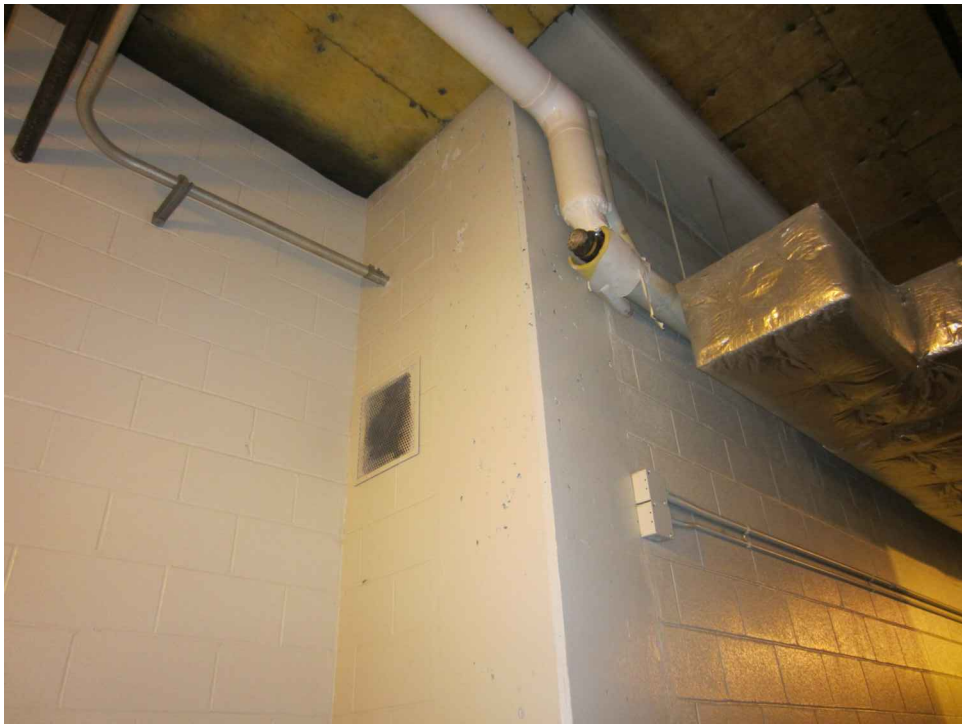
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13 POWER DETAIL N
SCALE: N.T.S



14 POWER DETAIL P
SCALE: N.T.S



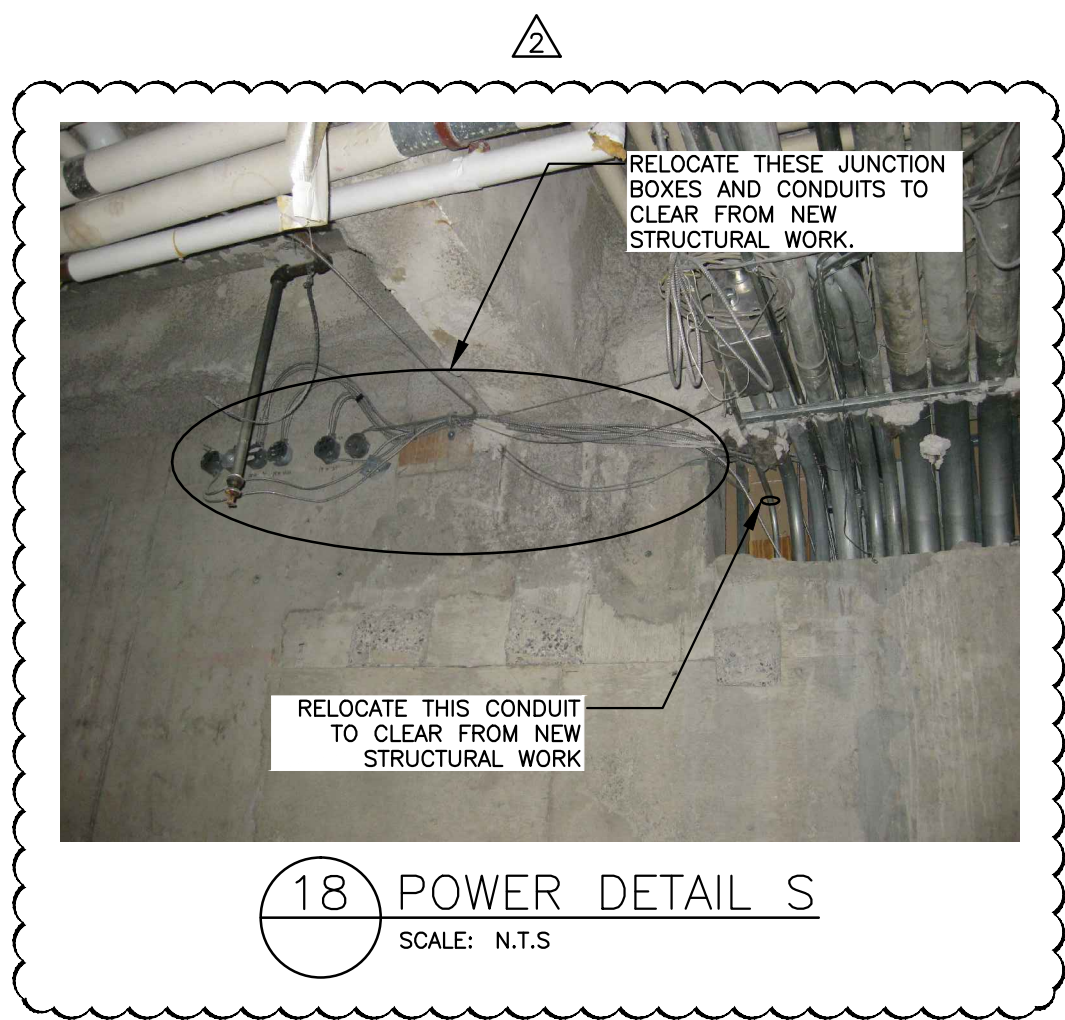
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16 POWER DETAIL R
SCALE: N.T.S



17 POWER DETAIL S
SCALE: N.T.S



18 POWER DETAIL S
SCALE: N.T.S

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TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSPC
PREETIPAL PAUL
Drawing title/Titre du dessin
POWER DETAILS 1

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.041365.001	E29 OF 30	4