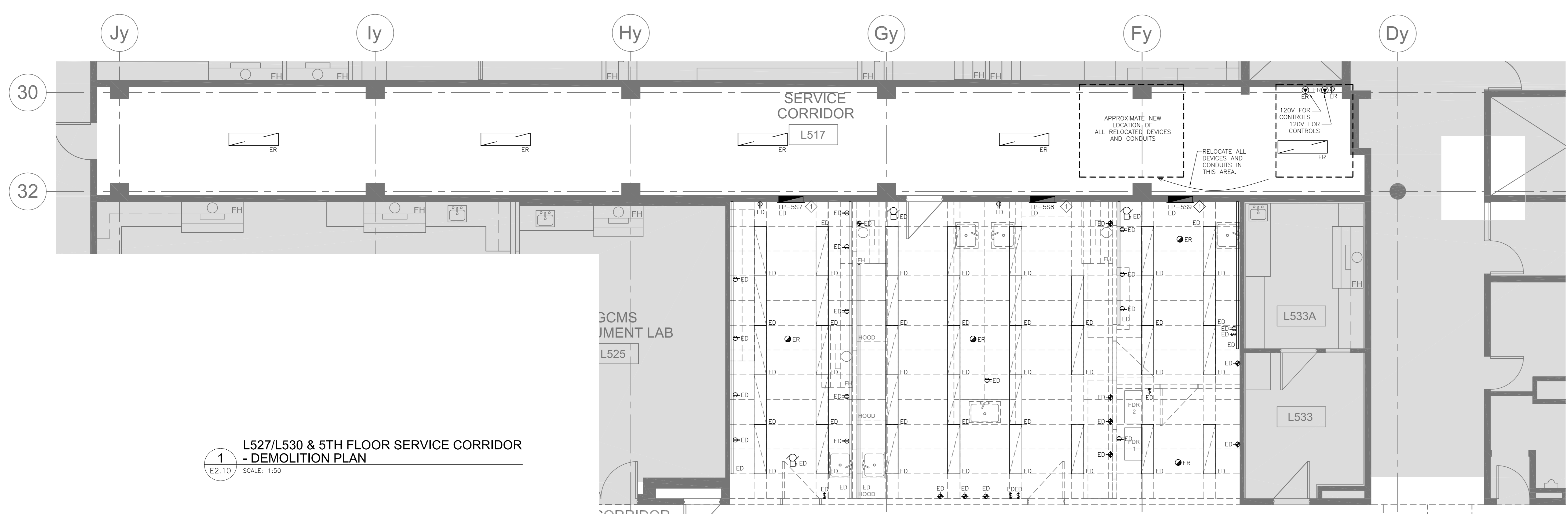


**KEY PLAN**  
N.T.S.



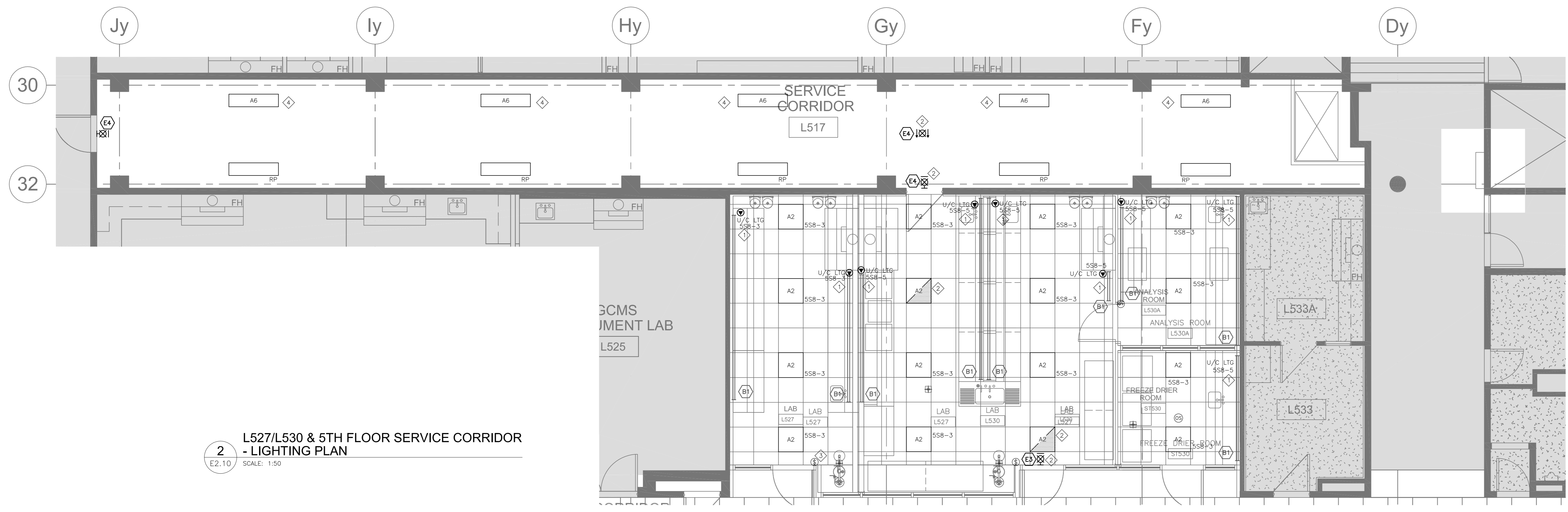
**1**  
L527/L530 & 5TH FLOOR SERVICE CORRIDOR  
- DEMOLITION PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- DEMOLISH ALL ELECTRICAL CEILING DEVICES, WALL DEVICES, AND EQUIPMENT CONNECTIONS WITHIN AREA OF WORK UNLESS OTHERWISE INDICATED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.
- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.

**KEYNOTES:**

- ALL CIRCUITS FEEDING AREAS OUTSIDE OF THIS PROJECT SCOPE TO BE RETAINED AND FED FROM NEW PANEL LP-558 IN SERVICE CORRIDOR. EXTEND AND SPLICE CIRCUITS AS REQUIRED. COORDINATE SHUTDOWN WITH OWNER'S REPRESENTATIVE AND MINIMIZE LENGTH OF DISRUPTION.



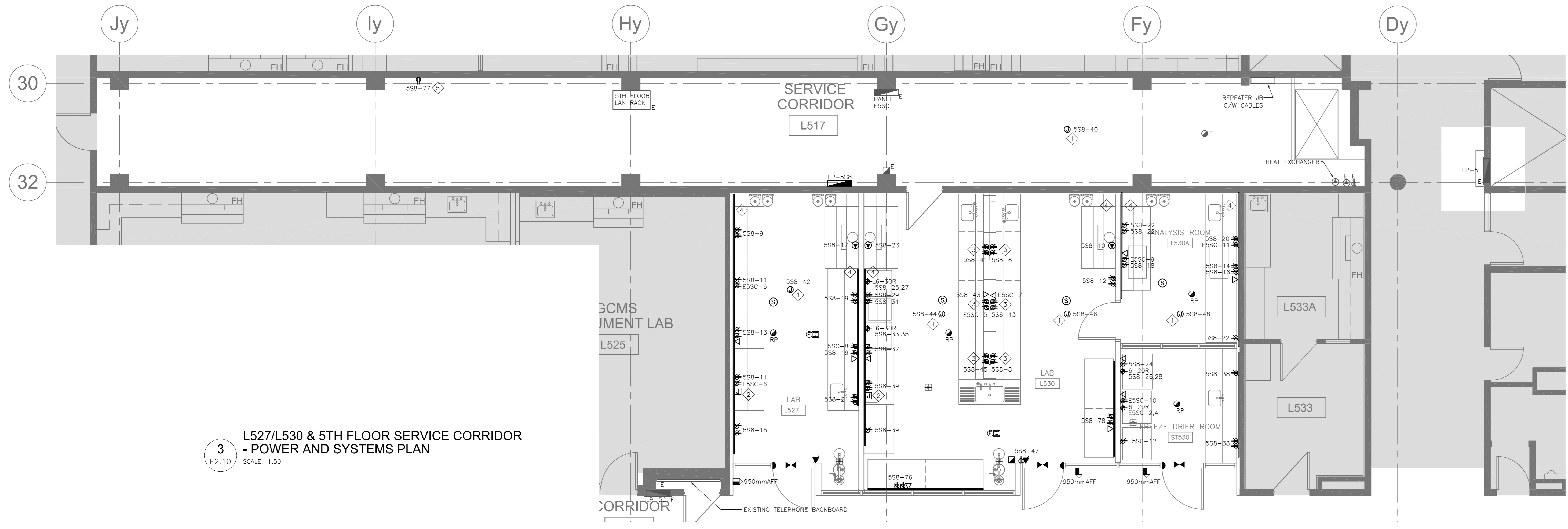
**2**  
L527/L530 & 5TH FLOOR SERVICE CORRIDOR  
- LIGHTING PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- FIXTURES DESIGNATED AS NIGHT LIGHTS SHALL BE UNSWITCHED.
- COORDINATE ALL U/C LIGHTING CONNECTIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE DROPS VIA DRYWALL PARTITIONS OR VIA BLOCK WALL PENETRATIONS, AS NEEDED.
- LIGHTING CONTROL IN EACH LAB AS PER DETAIL 6/E6.02.

**KEYNOTES:**

- ALL U/C LIGHTS C/W INTEGRAL SWITCH TO BE PROVIDED BY OTHERS. PROVIDE ELECTRICAL CONNECTION TO U/C LIGHTING. COORDINATE CONNECTION REQUIREMENTS WITH CASEWORK SUPPLIER.
- CONNECT EMERGENCY LIGHTS, EXIT SIGNS TO THE EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THE SERVICE CORRIDOR. FED FROM PANEL LP-58. VERIFY LOADING ON THE EXISTING CIRCUIT.
- RESERVED.
- PROVIDE NEW LIGHTING FIXTURES AND CONNECT TO THE EXISTING CORRIDOR LIGHTING CIRCUIT. VERIFY LOADING ON THE EXISTING CIRCUIT.



**3**  
L527/L530 & 5TH FLOOR SERVICE CORRIDOR  
- POWER AND SYSTEMS PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- CONTRACTOR SHALL CONFIRM ALL EQUIPMENT CONNECTIONS (RATINGS, PLUG TYPES, LOCATIONS) PRIOR TO ROUGH-IN. ANY RE-WORK COSTS DUE TO LACK OF THIS COORDINATION SHALL NOT BE INCURRED BY THE PROJECT.
- COORDINATE ALL POWER AND DATA CONNECTIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE DROPS VIA DRYWALL PARTITIONS OR VIA BLOCK WALL PENETRATIONS, AS NEEDED.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

- PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.
- PROVIDE RECEIVER FOR AUDIO SPEAKER SYSTEM. REFER TO DETAIL 2/E6.02.
- POWER AND DATA RACEWAY PROVIDED BY CASEWORK SUPPLIER. THIS CONTRACTOR TO PROVIDE OUTLET, WIRING AND TERMINATIONS. COORDINATE REQUIREMENTS WITH CASEWORK SUPPLIER.
- SURFACE RACEWAY PROVIDED BY THIS CONTRACTOR.
- MAIN CONTROLLER FOR SOUND MASKING SYSTEM IN OPEN OFFICES. EXACT LOCATION TO BE CONFIRMED ON SITE.

revision	issue	date
1	ISSUED FOR BID	04/11/2015

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

Detail No.	No. du détail
A	drawing no. - where detail required
B	drawing no. - où détail exigé
C	drawing no. - where detailed
	dessin no. - où détaillé

project title  
titre du projet

**CANADA CENTRE FOR INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHU, AND HEATING UPGRADE

drawing title  
titre du dessin  
**A&L BUILDING L527/L530 & 5TH FLOOR SERVICE CORRIDOR ELECTRICAL PLAN**

drawn by  
dessiné par **DD**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

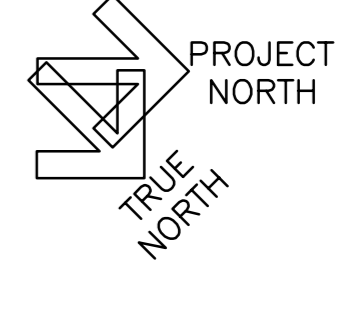
job office  
bureau de projet **KC**

project manager  
administrateur de projet

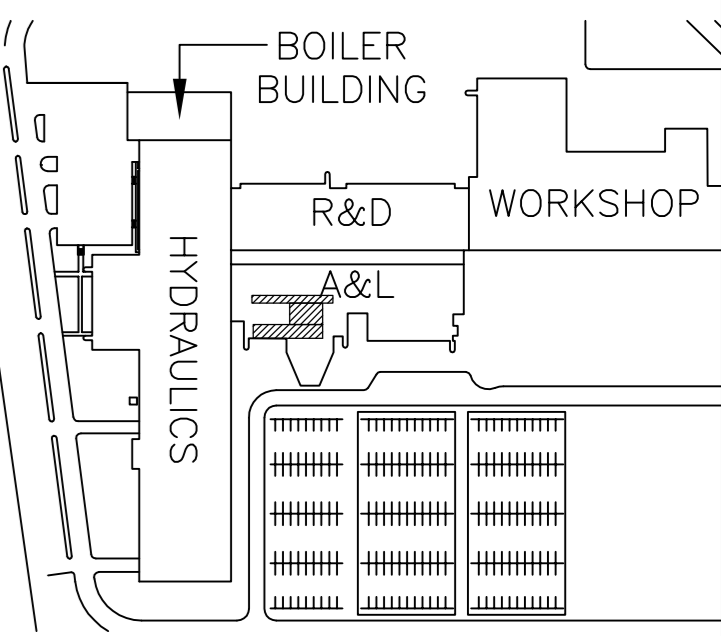
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date du projet **2015-02-24**

project no.  
no. du projet **R.073578.001**

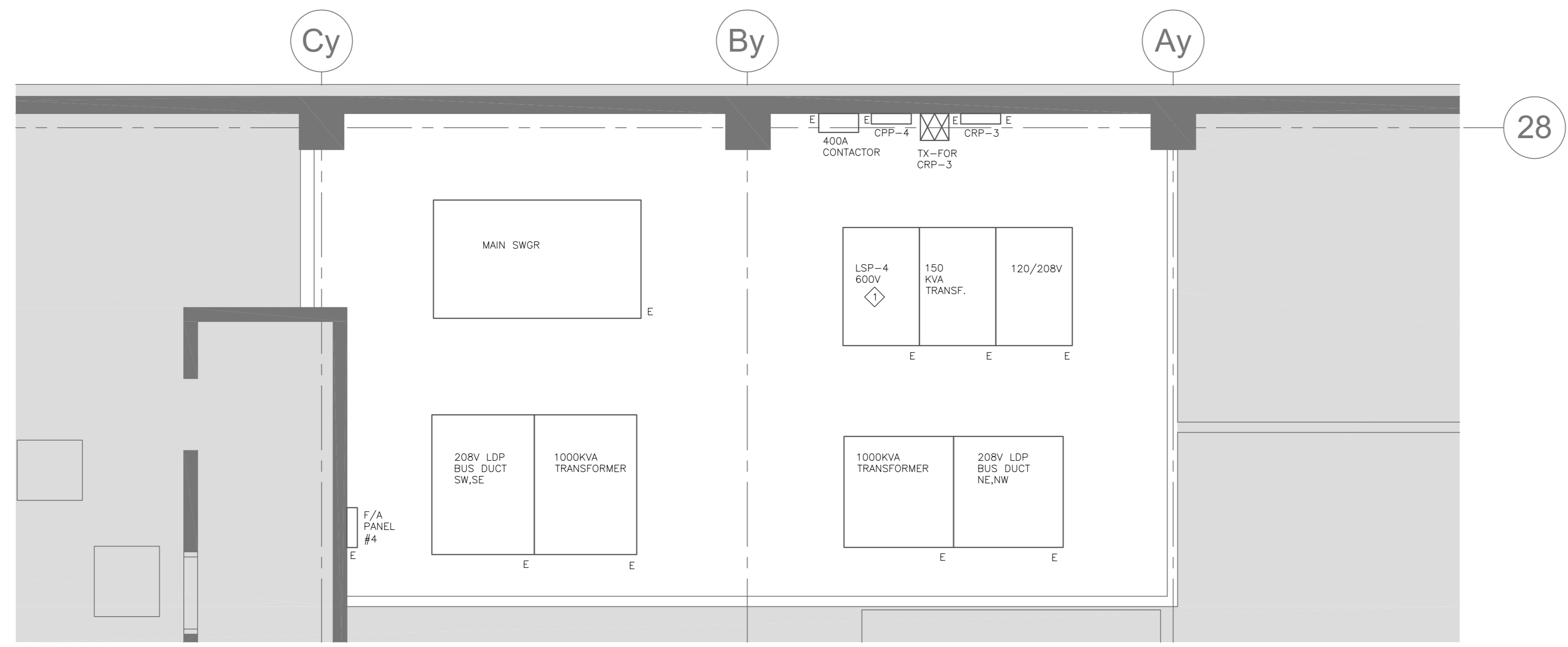
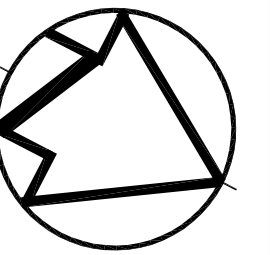
drawing no.  
dessin no. **E2.10**



Stamp



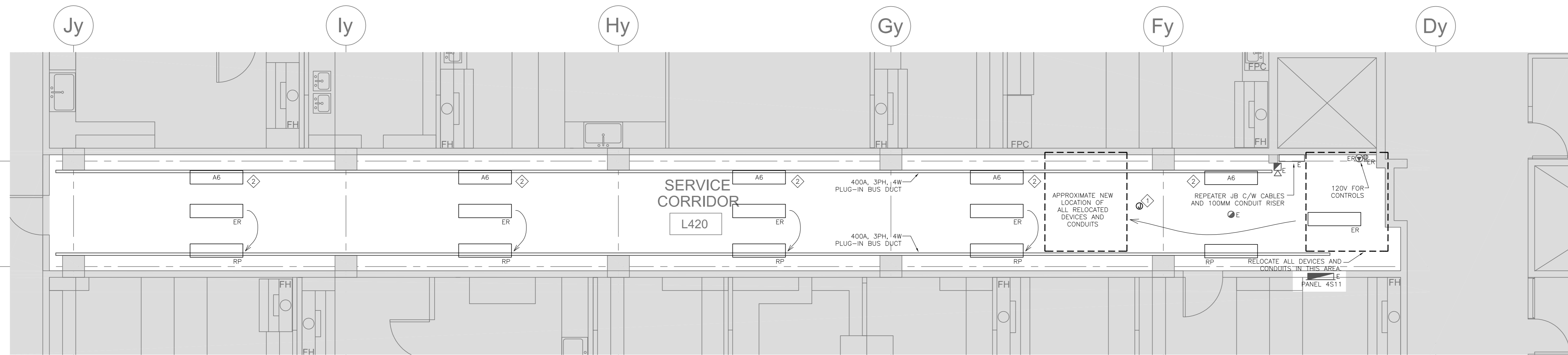
**KEY PLAN**  
N.T.S.



**1 3RD FLOOR ELECTRICAL ROOM LAYOUT**  
E2.11 SCALE: 1:50

**GENERAL NOTES:**  
1. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

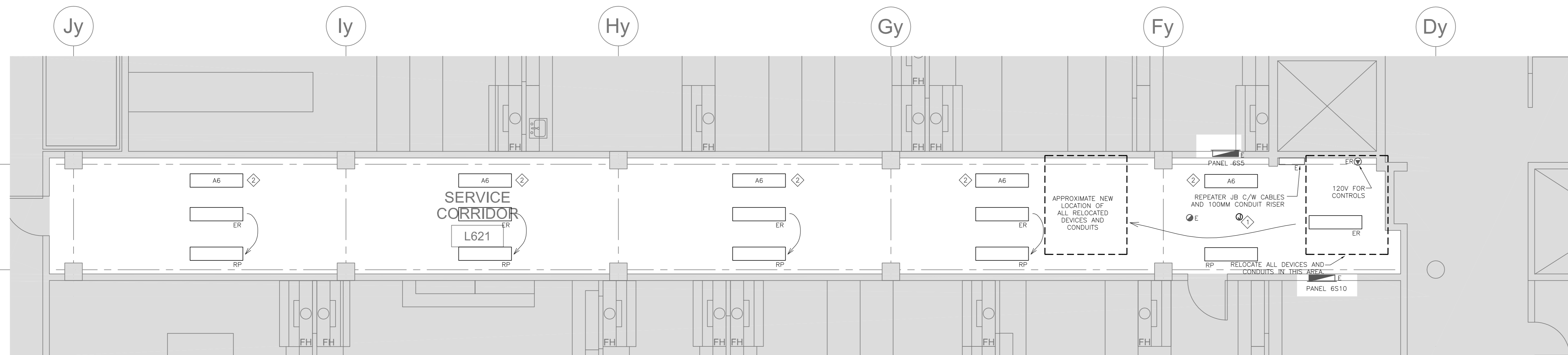
**KEYNOTES:**  
◇ PROVIDE NEW CIRCUIT FOR EF-40 ON ROOF. REFER TO DETAIL 4/E6.01.



**2 4TH FLOOR SERVICE CORRIDOR - ELECTRICAL PLAN**  
E2.11 SCALE: 1:50

**GENERAL NOTES:**  
1. RELOCATE ALL DEVICES WITHIN INDICATED AREA BY UP TO 10m TOWARDS SOUTH. RELOCATE ALL ASSOCIATED WIRING AND CONDUIT AS REQUIRED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.  
2. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

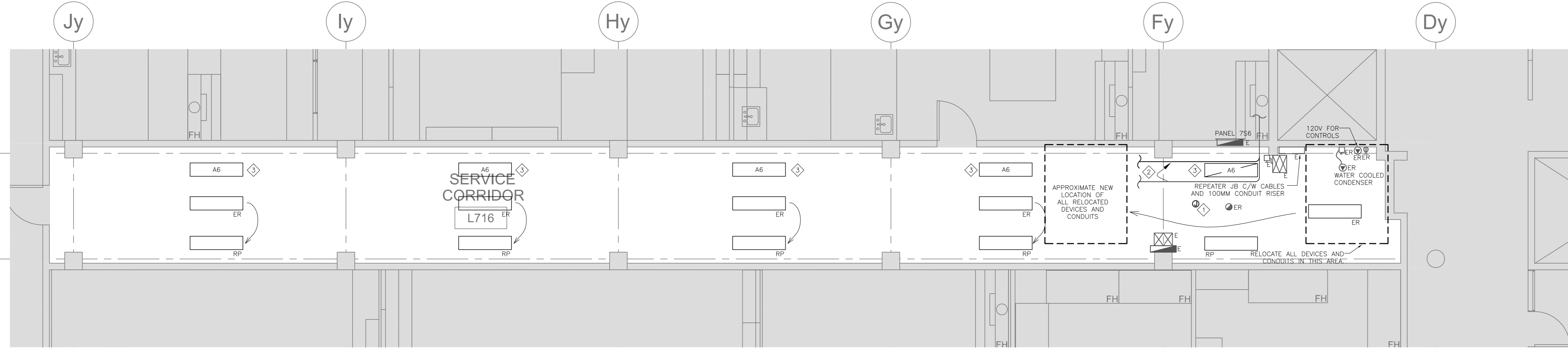
**KEYNOTES:**  
◇ PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.  
◇ PROVIDE NEW LIGHTING FIXTURES AND CONNECT TO THE EXISTING CORRIDOR LIGHTING CIRCUIT. VERIFY LOADING ON THE EXISTING CIRCUIT.



**3 6TH FLOOR SERVICE CORRIDOR - ELECTRICAL PLAN**  
E2.11 SCALE: 1:50

**GENERAL NOTES:**  
1. RELOCATE ALL DEVICES WITHIN INDICATED AREA BY UP TO 10m TOWARDS SOUTH. RELOCATE ALL ASSOCIATED WIRING AND CONDUIT AS REQUIRED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.  
2. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**  
◇ PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.  
◇ PROVIDE NEW LIGHTING FIXTURES AND CONNECT TO THE EXISTING CORRIDOR LIGHTING CIRCUIT. VERIFY LOADING ON THE EXISTING CIRCUIT.



**4 7TH FLOOR SERVICE CORRIDOR - ELECTRICAL PLAN**  
E2.11 SCALE: 1:50

**GENERAL NOTES:**  
1. RELOCATE ALL DEVICES WITHIN INDICATED AREA BY UP TO 10m TOWARDS SOUTH. RELOCATE ALL ASSOCIATED WIRING AND CONDUIT AS REQUIRED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.  
2. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**  
◇ PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.  
◇ EXISTING CONDUIT AT HIGH LEVELS TO BE RELOCATED TIGHT TO WEST WALL TO ACCOMMODATE NEW MECHANICAL DUCT. COORDINATE EXACT LOCATION WITH OTHER TRADES.  
◇ PROVIDE NEW LIGHTING FIXTURES AND CONNECT TO THE EXISTING CORRIDOR LIGHTING CIRCUIT. VERIFY LOADING ON THE EXISTING CIRCUIT.

1	ISSUED FOR BID	04/11/2015
revision	issue	date

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du détail
B/C	drawing no. - where detail required
C	drawing no. - where detailed
	dessin no. - où détaillé

project title / titre du projet

**CANADA CENTRE FOR INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHU, AND HEATING UPGRADE

drawing title / titre du dessin  
**A&L BUILDING 3RD ELEC RM & 4TH, 6TH, 7TH FLOOR SERVICE CORRIDOR ELECTRICAL PLAN**

drawn by / dessiné par: JZ

designed by / conçu par: RT

approved by / approuvé par: NA

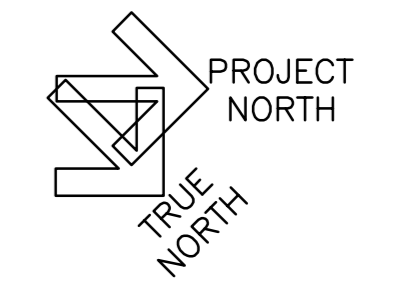
job office / bureau de projet: KC project manager / administrateur de projet

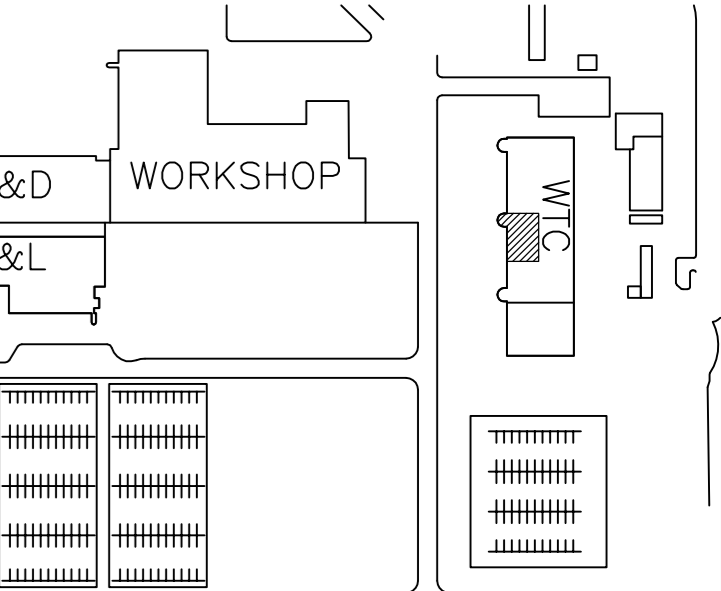
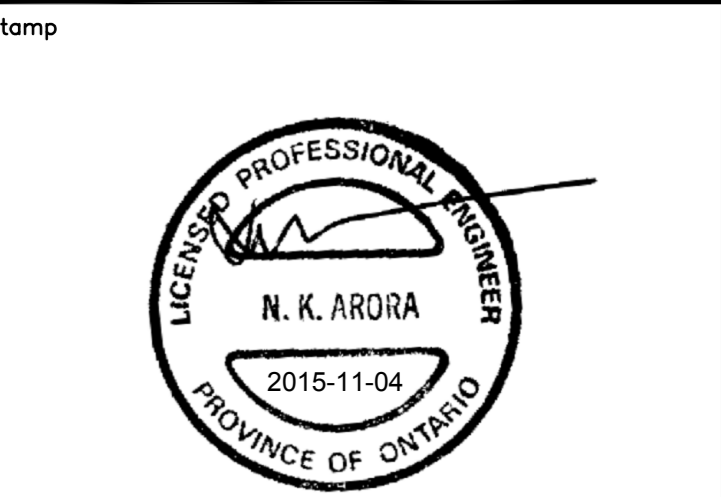
project date / date du projet: 2015-02-24

project no. / no. du projet: R.073578.001

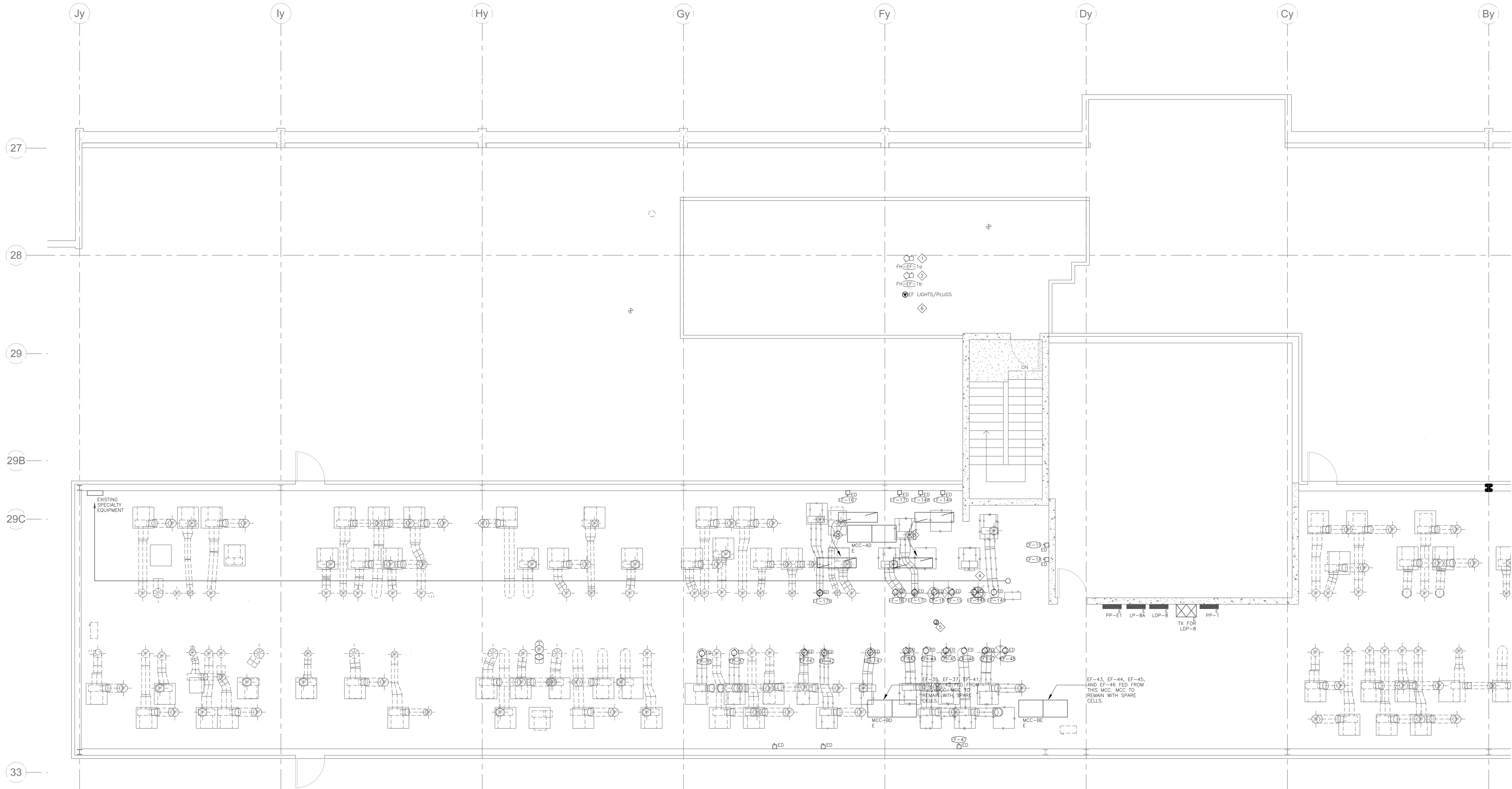
DIALOG NO. 09946T0200

drawing no. / dessin no.: E2.11





**KEY PLAN**  
N.T.S.



**1 A&L PENTHOUSE - ELECTRICAL PLAN**  
E2.12 SCALE: 1:50

**GENERAL NOTES:**

- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

- PROVIDE NEW FEED FROM LSP-4 LOCATED IN A&L 3RD FLOOR ELECTRICAL ROOM, REFER TO DETAIL 4/E6.01.
- PROVIDE NEW FEED FROM PP-1 LOCATED IN A&L PENTHOUSE, REFER TO DETAIL 4/E6.01.
- RELOCATE INDICATED LUMINAIRES TO SUIT FINAL EQUIPMENT LAYOUT. EXACT LOCATION TO BE COORDINATED ON SITE.
- EXISTING CONDUIT (FROM REPEATER JB BELOW) FOR SPECIALTY EQUIPMENT TO REMAIN.
- PROVIDE ONE CIRCUIT FROM LP-8A TO CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.
- PROVIDE ONE DEDICATED 120/15A CIRCUIT FROM LP-8A FOR AHU LIGHTS/CONTROL.

1	ISSUED FOR BID	04/11/2015
revision	issue	date

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du détail
C	drawing no. - where detail required
	dessin no. - où détail exigé
	drawing no. - where detailed
	dessin no. - où détaillé

project title  
titre du projet

**CANADA CENTRE FOR  
INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON,  
ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING  
UPGRADE

drawing title  
titre du dessin  
**A&L BUILDING PENTHOUSE  
ELECTRICAL PLAN**

drawn by  
dessiné par **JZ**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

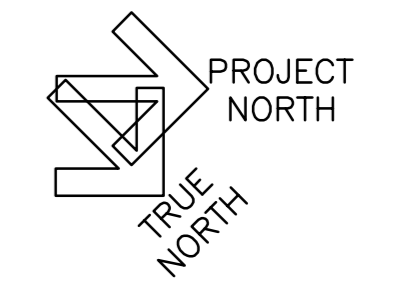
job  
offre **KC** project manager  
administrateur de projet

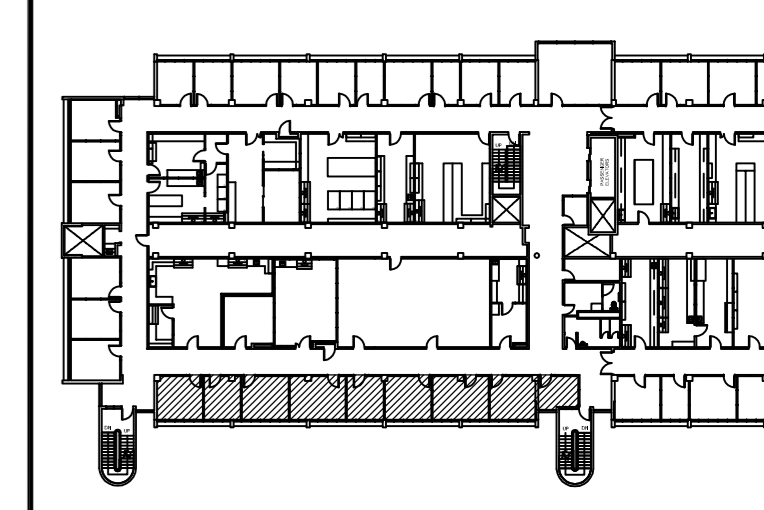
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date du projet **2015-02-24**

project no.  
no. du projet **R.073578.001**

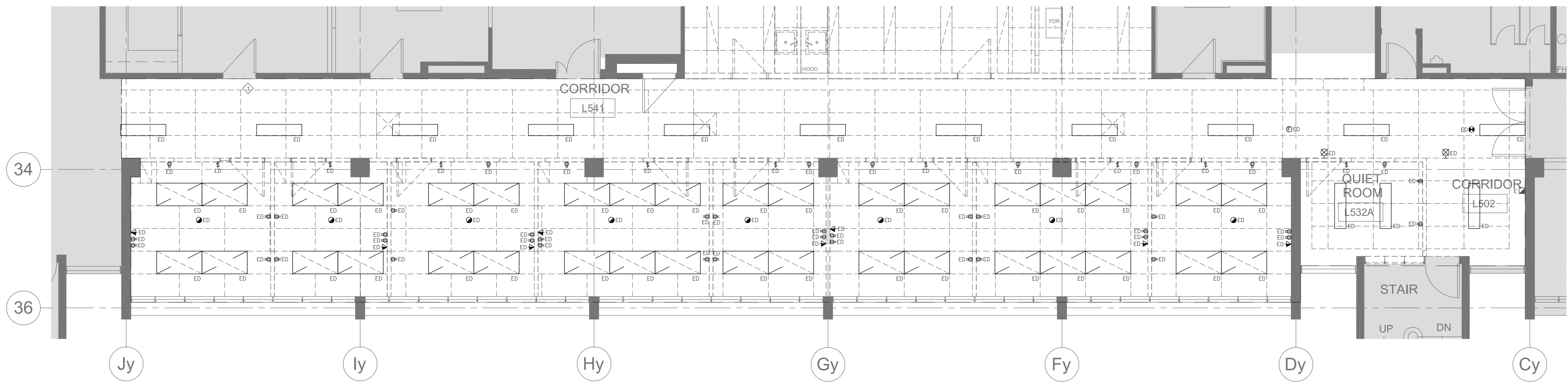
**DIALOG NO. 09946T0200**

drawing no.  
dessiné no. **E2.12**





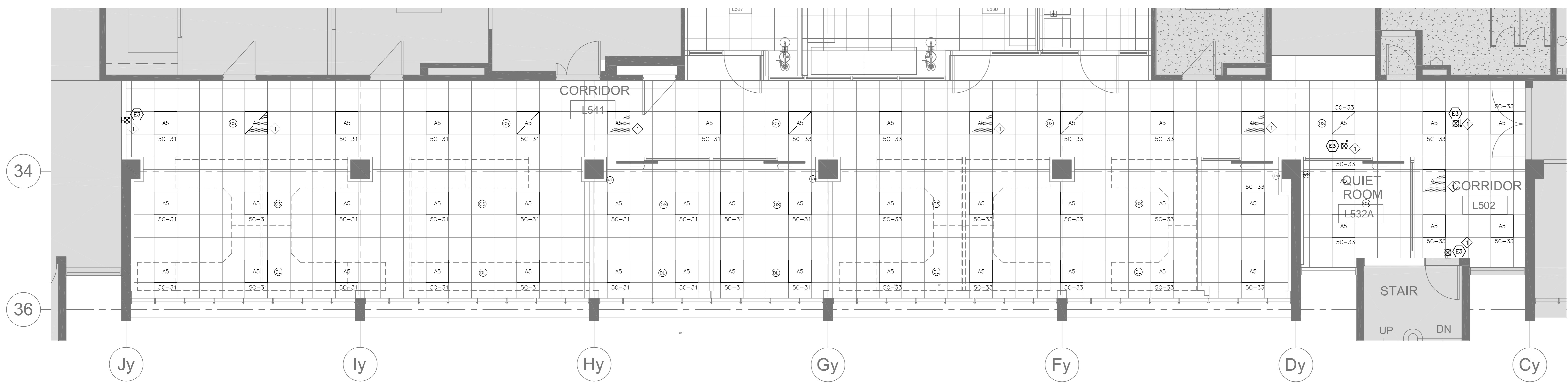
**KEY PLAN**  
N.T.S.



**1**  
O527-O532A  
- DEMOLITION PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- DEMOLISH ALL ELECTRICAL CEILING DEVICES, WALL DEVICES AND EQUIPMENT CONNECTIONS WITHIN AREA OF WORK UNLESS OTHERWISE INDICATED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.
- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BRISERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL AUXILIARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.



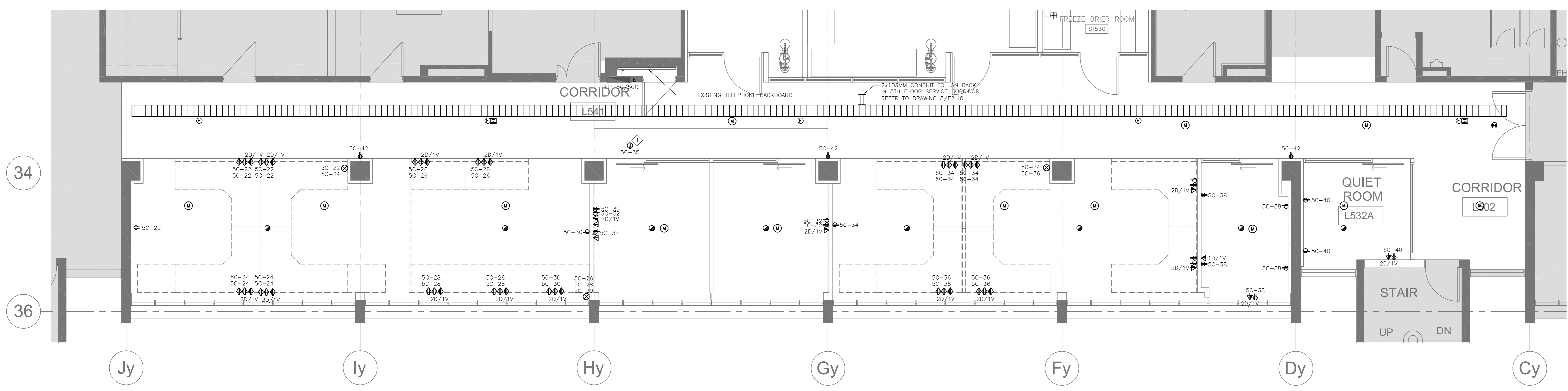
**2**  
O527-O532A  
- LIGHTING PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- FIXTURES DESIGNATED AS NIGHT LIGHTS SHALL BE UNSWITCHED.
- OCCUPANT SENSORS IN CORRIDORS TO CONTROL CORRIDOR LIGHTING FIXTURES ONLY.
- DAYLIGHT SENSORS TO CONTROL ROW OF LIGHT FIXTURES CLOSEST TO EXTERIOR GLAZING.
- LIGHTING CONTROL IN THIS AREA AS PER DETAIL 4/18-02.

**KEYNOTES:**

◇ CONNECT EMERGENCY LIGHTS, EXIT SIGNS TO THE EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THE SERVICE CORRIDOR. FED FROM PANEL LP-SC. VERIFY LOADING ON EXISTING CIRCUIT.



**3**  
O527-O532A  
- POWER AND SYSTEMS PLAN  
SCALE: 1:50

**GENERAL NOTES:**

- CONTRACTOR SHALL CONFIRM ALL EQUIPMENT CONNECTIONS (RATINGS, PLUG TYPES, LOCATIONS) PRIOR TO BEGINNING ANY RE-WORK COSTS DUE TO LACK OF THIS COORDINATION SHALL NOT BE INCURRED BY THE PROJECT.
- COORDINATE ALL POWER AND DATA CONNECTIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE DROPS VIA FURRED-OUT COLUMNS AND FURNITURE RACEWAYS.
- CONNECT ALL POWER AND DATA TO SYSTEMS FURNITURE VIA BUILT-IN RACEWAY. COORDINATE WITH FURNITURE SUPPLIER. ALL WIRING TERMINATIONS, AND OUTLETS BY THIS CONTRACTOR.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

◇ PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.

1	ISSUED FOR BID	04/11/2015
revision	issue	date

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A	Detail No.
B	No. du détail
B	drawing no. - where detail required
B	dessin no. - où détail exigé
C	drawing no. - where detailed
C	dessin no. - où détaillé

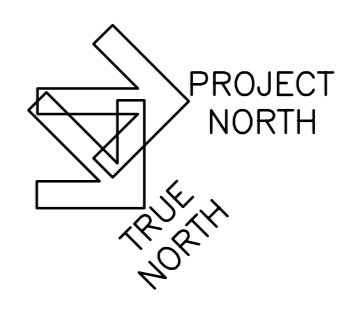
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867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING UPGRADE

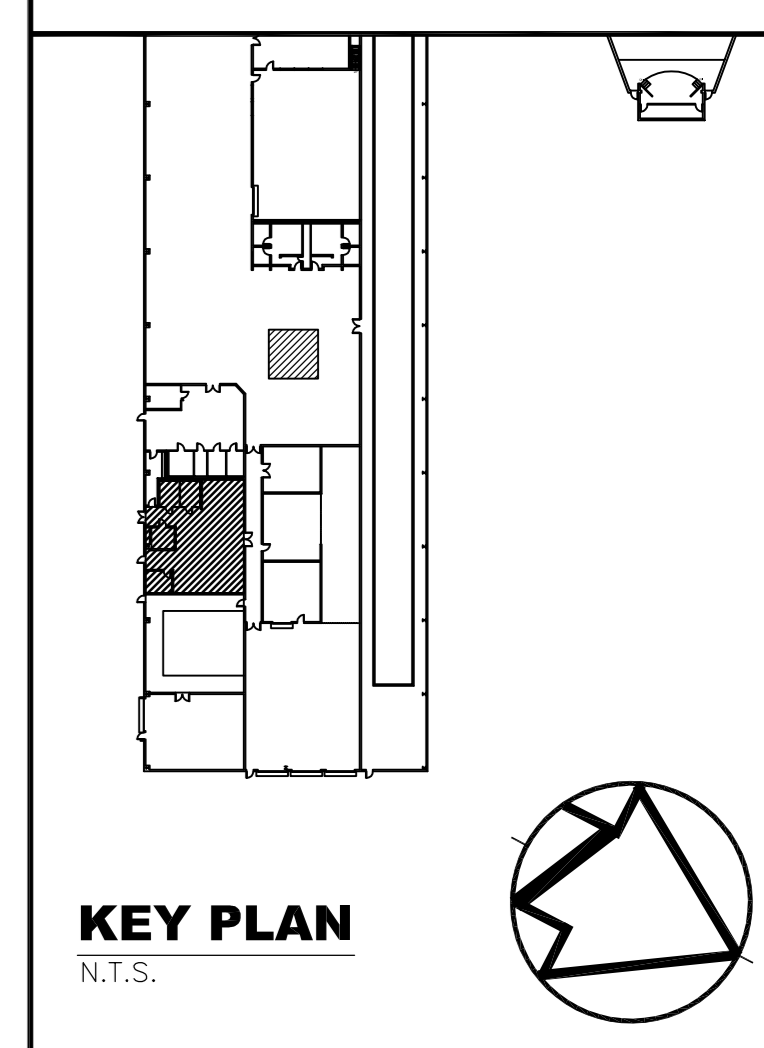
drawing title  
titre du dessin  
**A&L BUILDING 0521/0532A ELECTRICAL PLAN**

drawn by  
dessiné par DD  
designed by  
conçu par RT  
approved by  
approuvé par NA  
bvt office  
KC project manager  
administrateur de projet

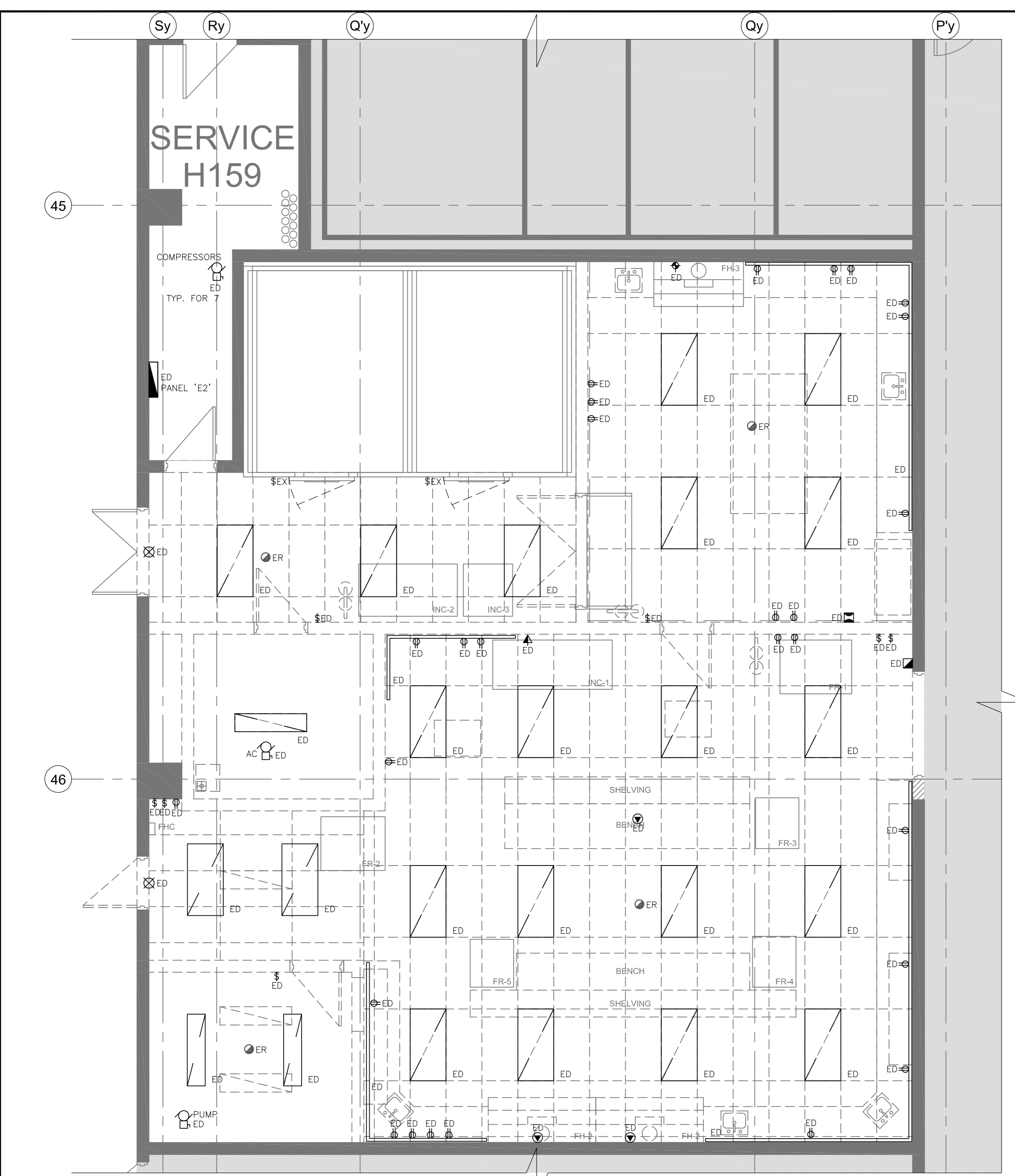
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date du projet 2015-02-24

project no.  
no. du projet R.073578.001  
DIALOG NO. 09946T0200  
drawing no.  
dessiné no. E2.13





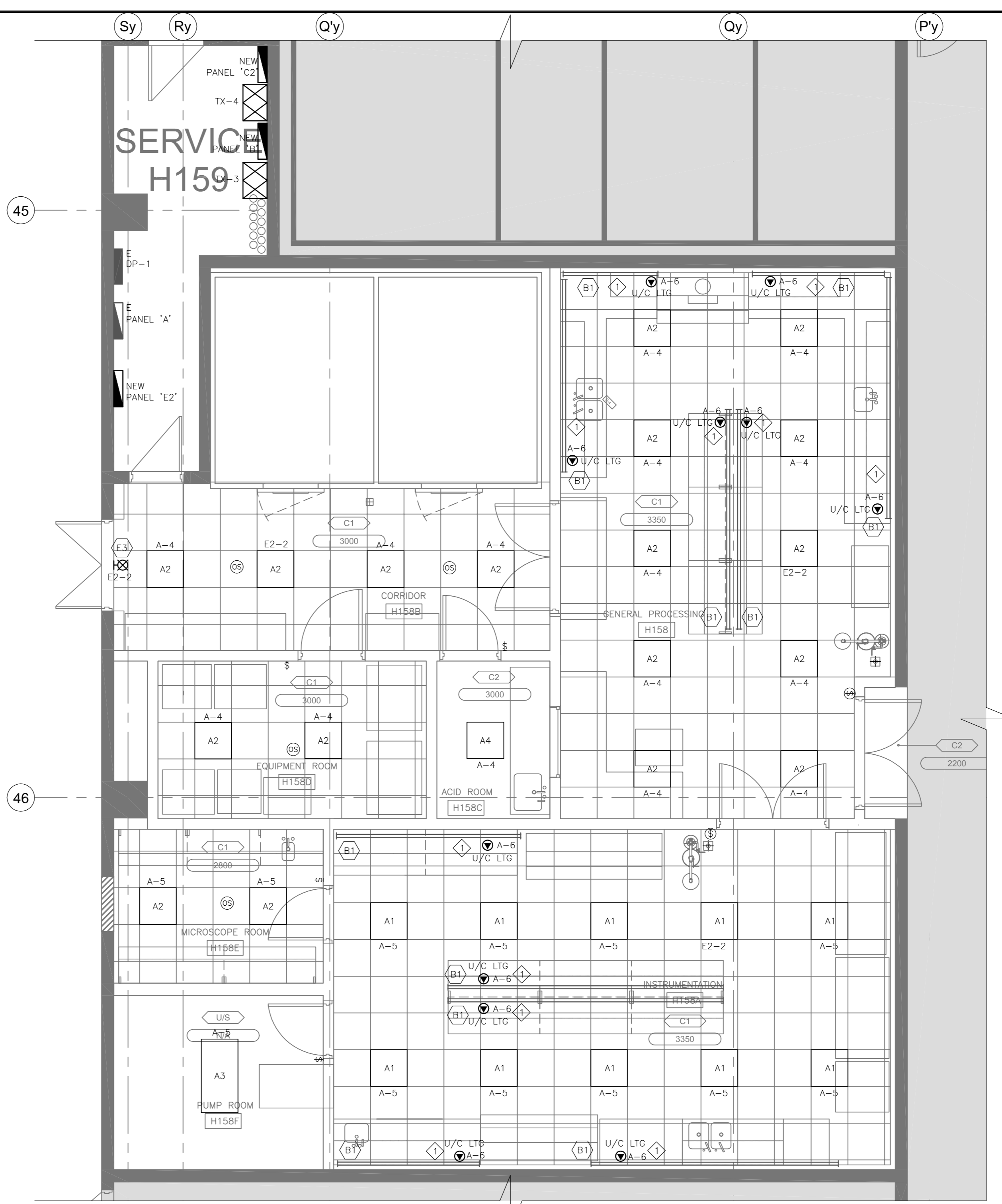
**KEY PLAN**  
N.T.S.



**GENERAL NOTES:**

- DEMOLISH ALL ELECTRICAL CEILING DEVICES, WALL DEVICES, AND EQUIPMENT CONNECTIONS WITHIN AREA OF WORK UNLESS OTHERWISE INDICATED. CONTRACTOR TO REVIEW SITE FOR EXACT QUANTITIES OF DEVICES PRIOR TO SUBMITTING BID PRICE.
- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.

**1 H158 - DEMOLITION PLAN**  
E2.20 SCALE: 1:50



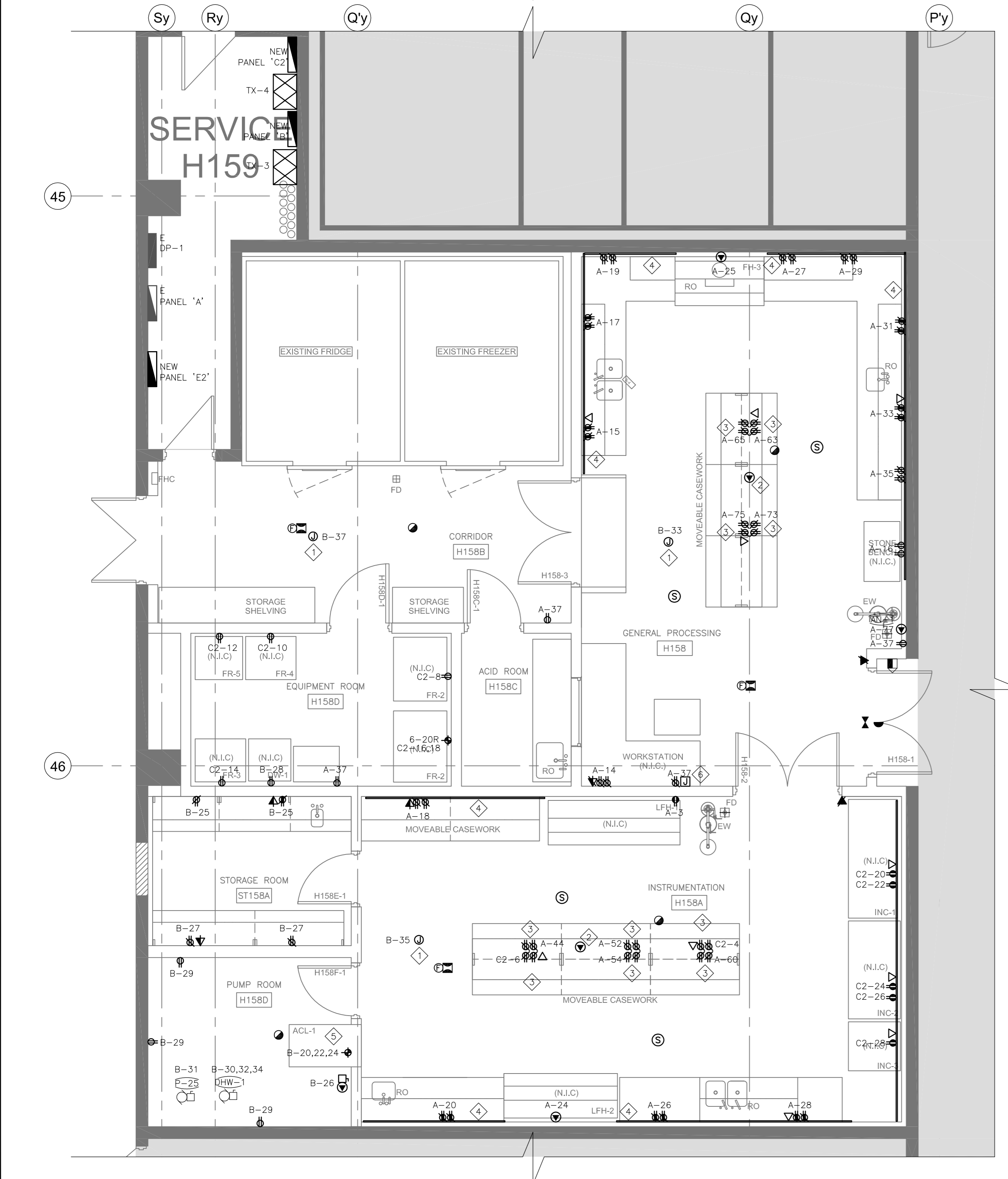
**GENERAL NOTES:**

- FIXTURES DESIGNATED AS NIGHT LIGHTS SHALL BE UNSWITCHED.
- COORDINATE ALL U/C LIGHTING CONNECTIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE DROPS VIA DRYWALL PARTITIONS OR VIA BLOCK WALL PENETRATIONS, AS NEEDED.
- LIGHTING CONTROL IN THIS AREA AS PER DETAIL 6/EE.02.

**KEYNOTES:**

◇ ALL U/C LIGHTS C/W INTEGRAL SWITCH TO BE PROVIDED BY OTHERS. PROVIDE ELECTRICAL CONNECTION TO U/C LIGHTING. COORDINATE CONNECTION REQUIREMENTS WITH CASEWORK SUPPLIER.

**2 H158 - LIGHTING PLAN**  
E2.20 SCALE: 1:50



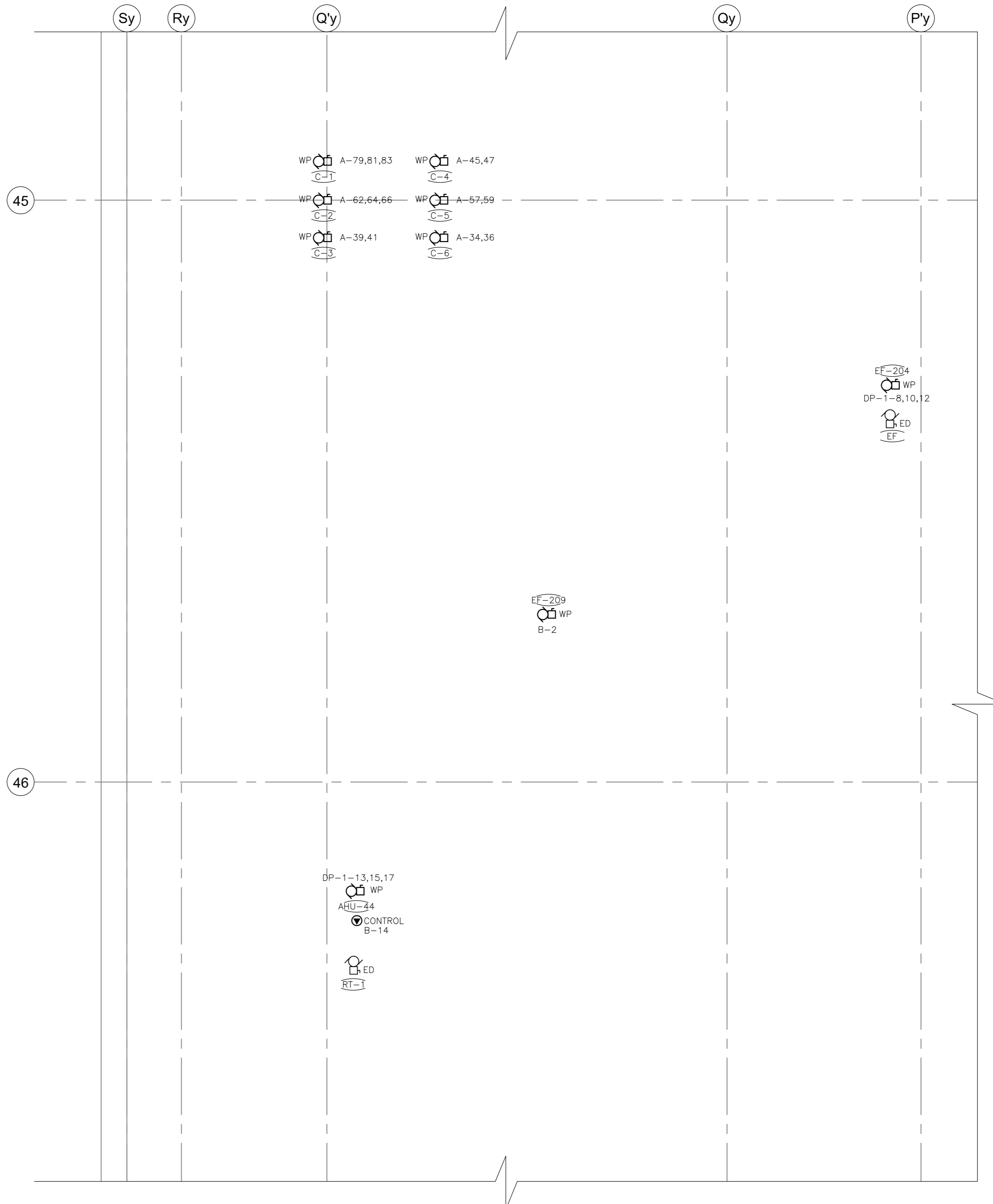
**GENERAL NOTES:**

- CONTRACTOR SHALL CONFIRM ALL EQUIPMENT CONNECTIONS (RATINGS, PLUG TYPES, LOCATIONS) PRIOR TO ROUGH-IN. ANY RE-WORK COSTS DUE TO LACK OF THIS COORDINATION SHALL NOT BE INCURRED BY THE PROJECT.
- COORDINATE ALL POWER AND DATA CONNECTIONS WITH ARCHITECTURAL DRAWINGS. PROVIDE DROPS VIA DRYWALL PARTITIONS OR VIA BLOCK WALL PENETRATIONS, AS NEEDED.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

- ◇ PROVIDE CIRCUITS INDICATED FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.
- ◇ PROVIDE ALL SERVICES TO ISLAND CASEWORK VIA OVERHEAD CARRIER. COORDINATE CONNECTION REQUIREMENTS WITH CASEWORK SUPPLIER.
- ◇ POWER AND DATA RACEWAY PROVIDED BY CASEWORK SUPPLIER. THIS CONTRACTOR TO PROVIDE OUTLET, WIRING AND TERMINATIONS. COORDINATE REQUIREMENTS WITH CASEWORK SUPPLIER.
- ◇ SURFACE RACEWAY PROVIDED BY THIS CONTRACTOR.
- ◇ USE #1 AWG WIRE.
- ◇ PROVIDE RECEIVER FOR IN-CEILING AUDIO SPEAKER SYSTEM. REFER TO DETAIL 2/EE.02.

**3 H158 - POWER PLAN**  
E2.20 SCALE: 1:50



**GENERAL NOTES:**

- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.

**4 H158 - ELECTRICAL ROOF PLAN**  
E2.20 SCALE: 1:50

revision	issue	date
1	ISSUED FOR BID	04/11/2015

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du dessin
B	drawing no. - where detail required
B	dessin no. - où détail exigé
C	drawing no. - where detailed
C	dessin no. - où détaillé

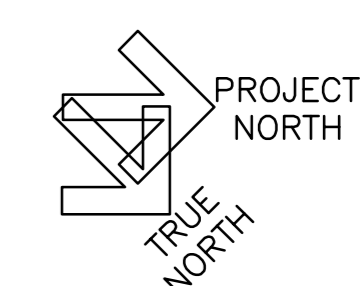
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**CANADA CENTRE FOR INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING UPGRADE

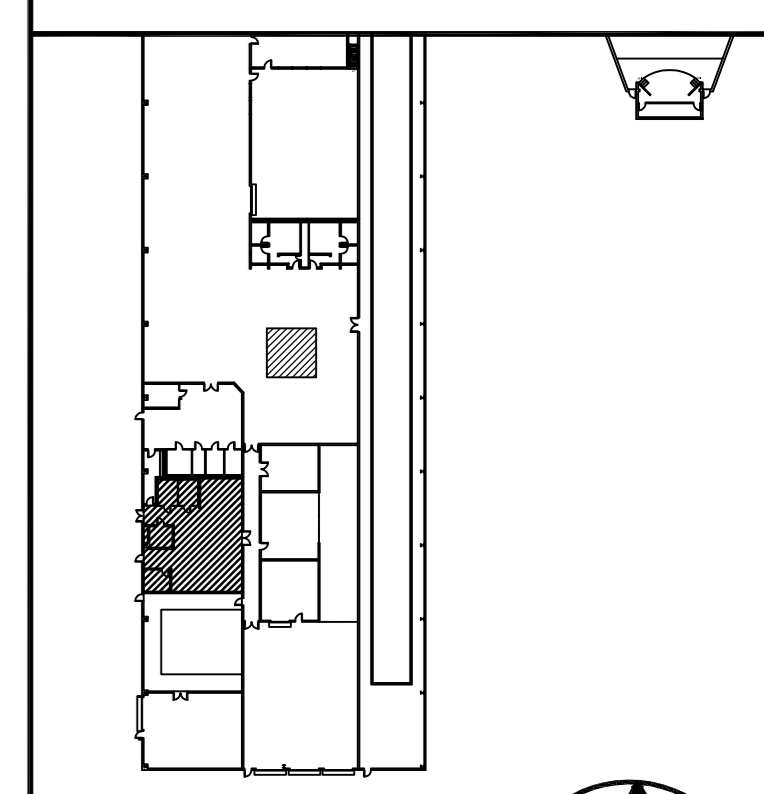
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**HYDRAULICS WING H158 ELECTRICAL PLAN**

drawn by  
dessiné par DD  
designed by  
conçu par RT  
approved by  
approuvé par NA  
bvt  
offre KC project manager  
administrateur de projet

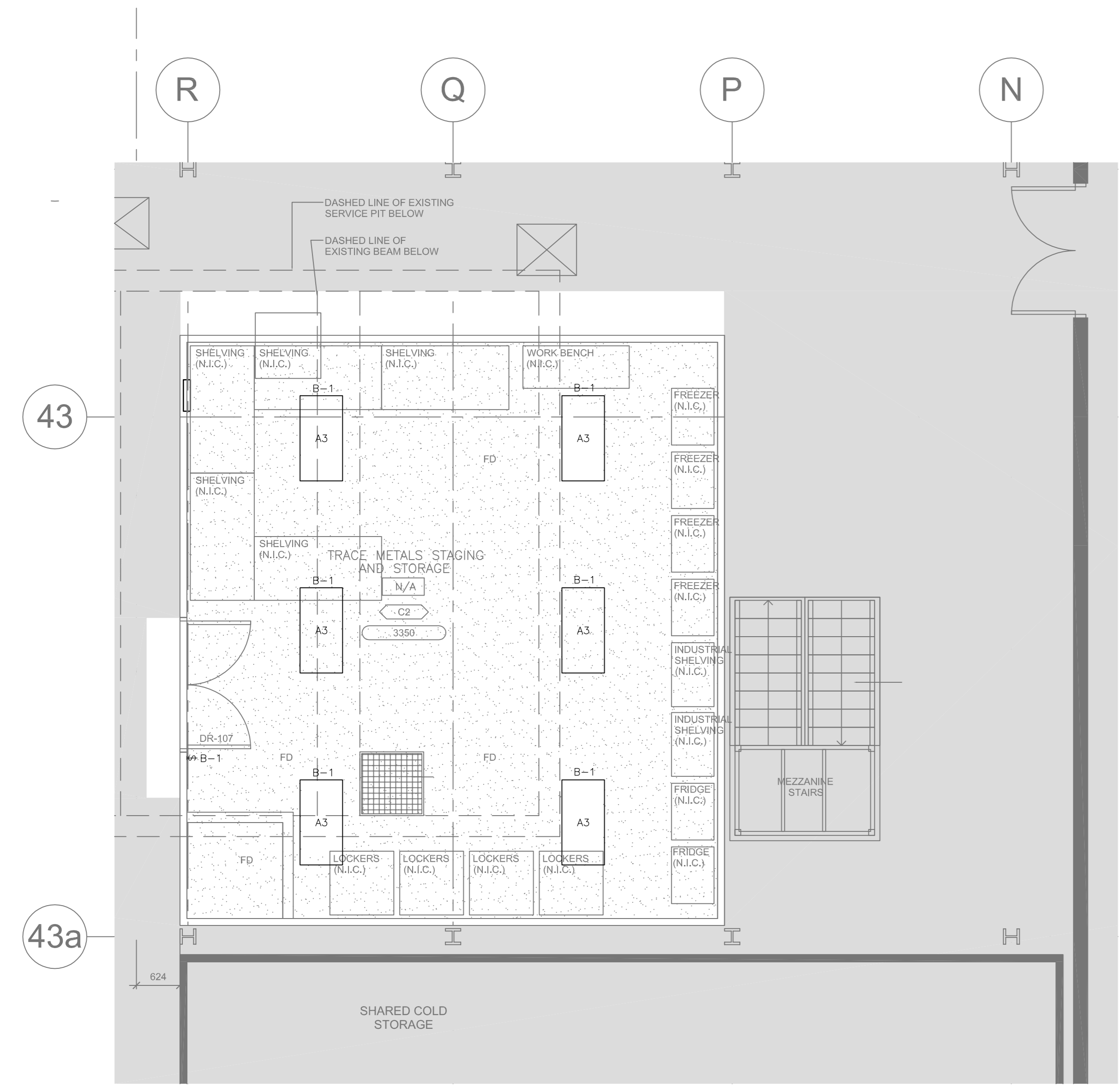
project date  
date du projet 2015-02-24

project no.  
no. du projet R.073578.001  
drawing no.  
dessin no. DIALOG NO. 09946T0200  
E2.20

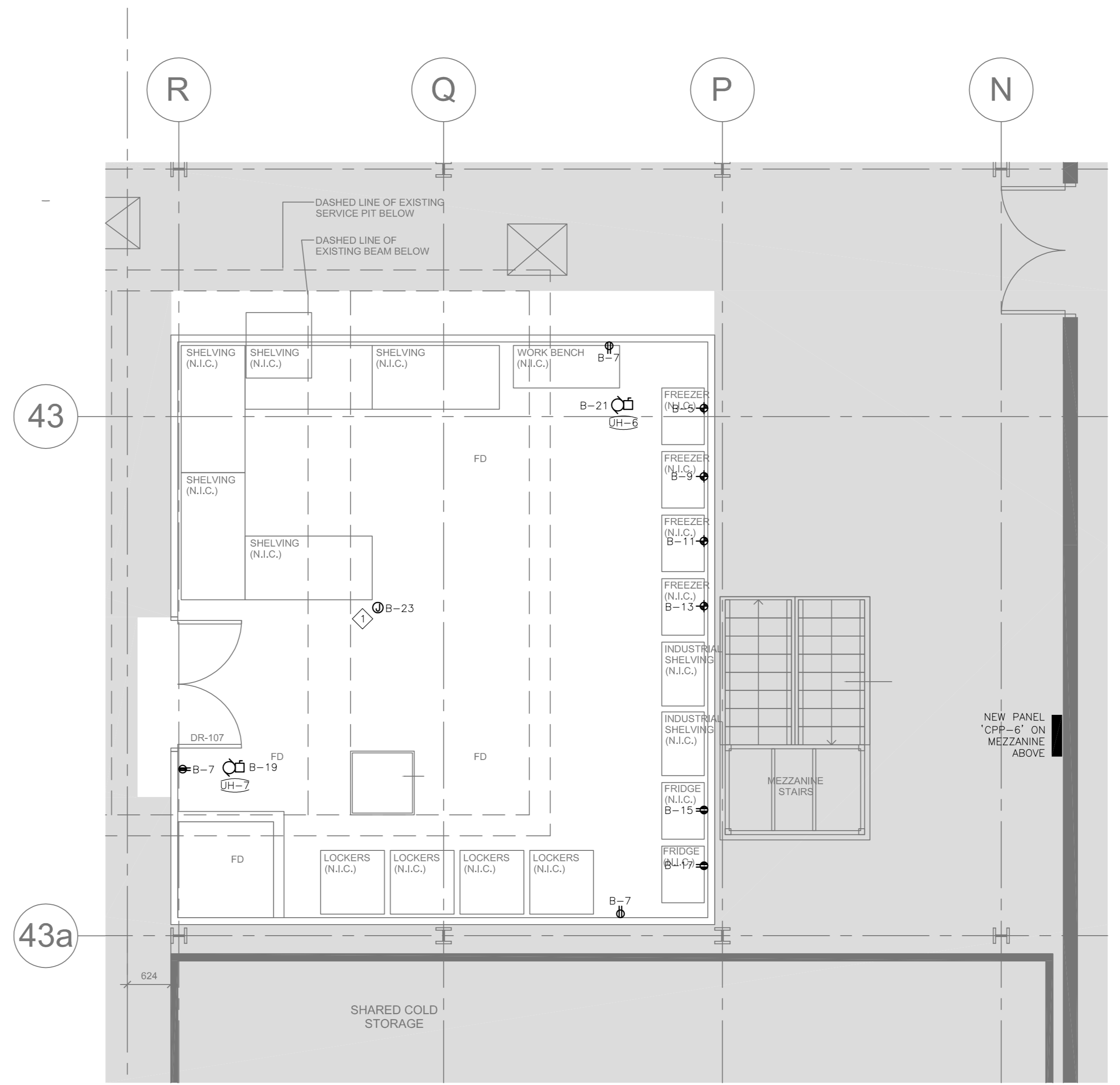




**KEY PLAN**  
N.T.S.



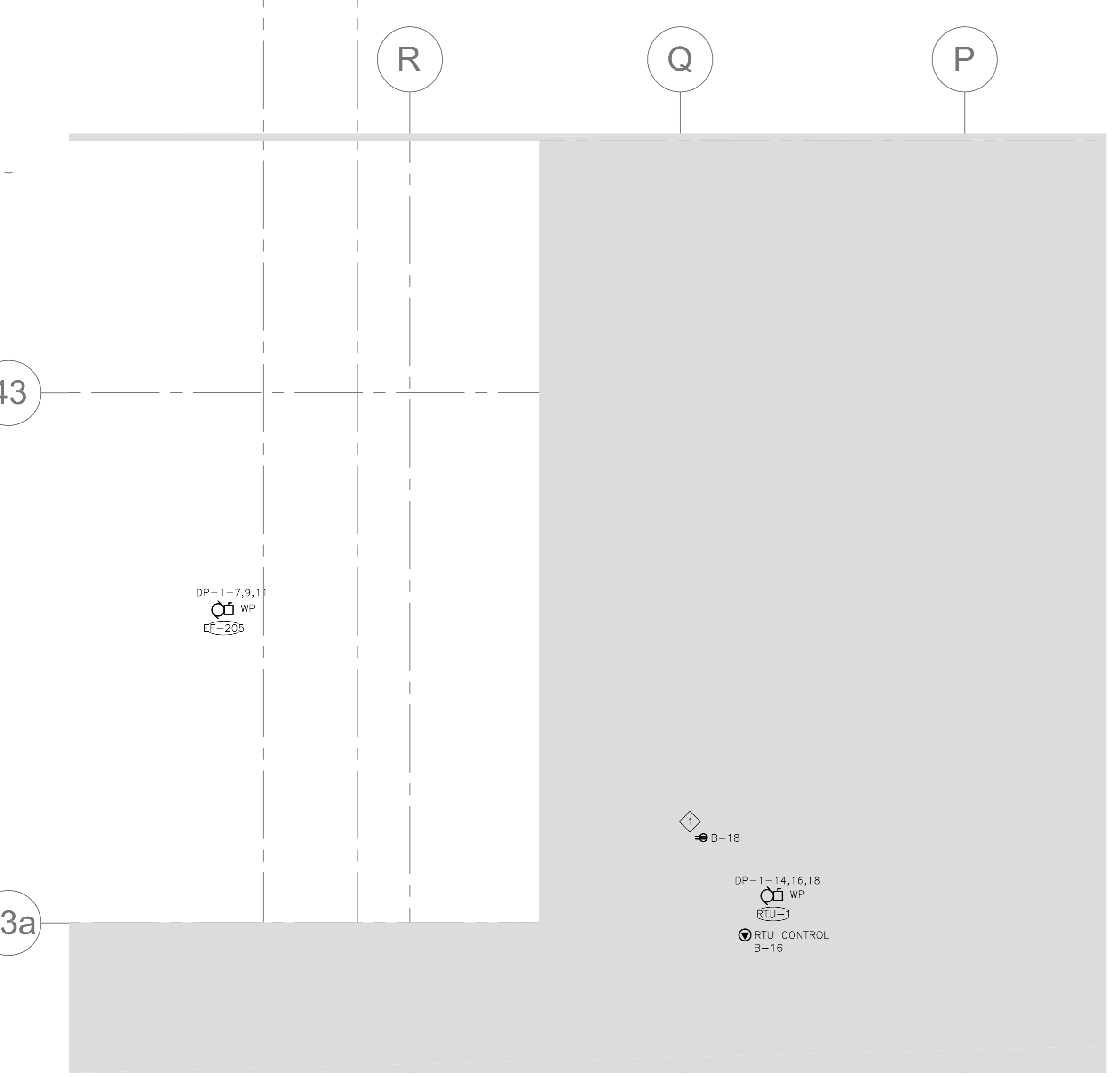
**1** TRACE METALS STAGING AND STORAGE ROOM  
- LIGHTING PLAN  
E2.21 SCALE: 1:50



**2** TRACE METALS STAGING AND STORAGE ROOM  
- POWER AND SYSTEMS PLAN  
E2.21 SCALE: 1:50

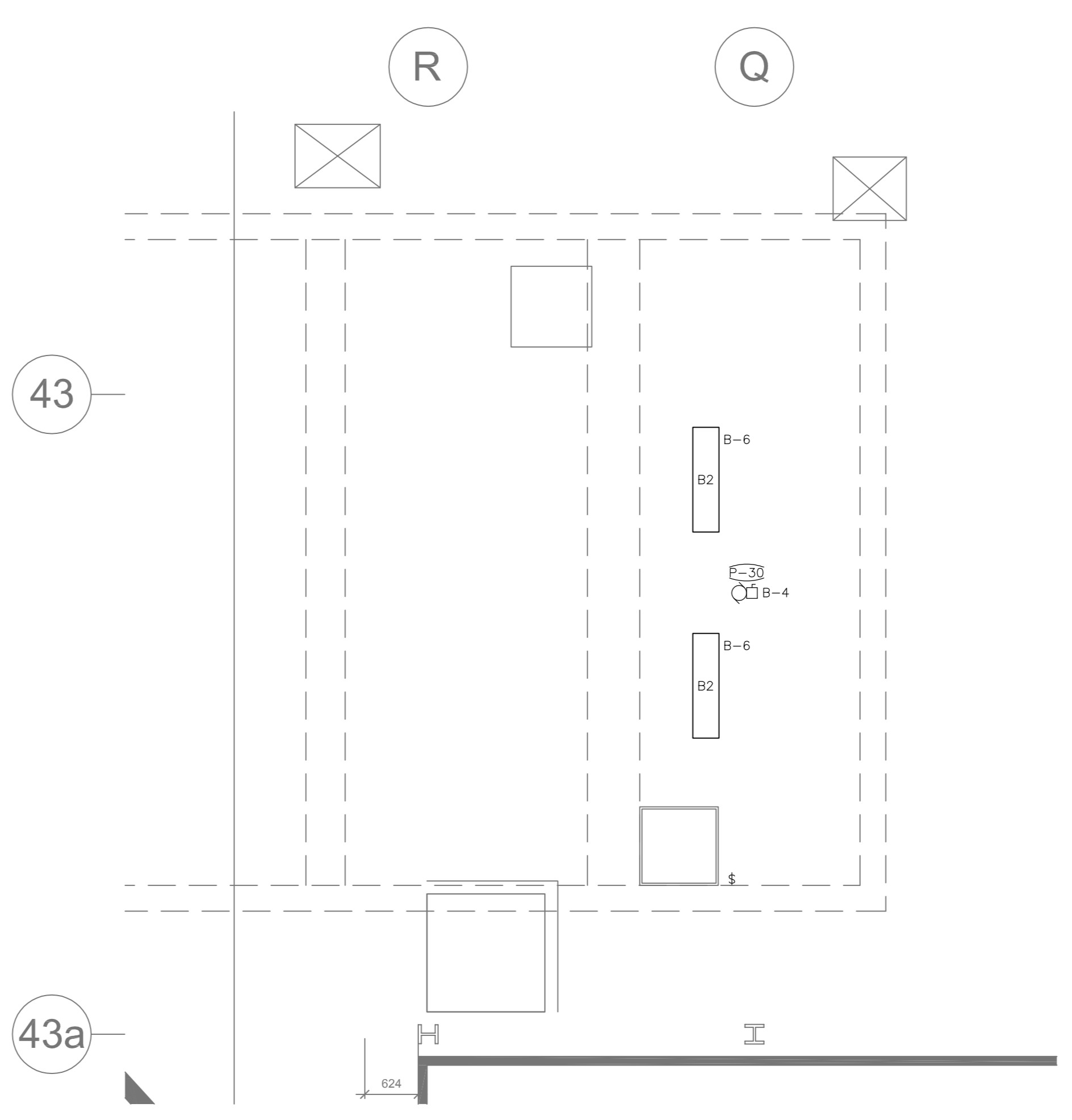
**GENERAL NOTES:**  
1. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**  
◇ PROVIDE CIRCUITS INDICATED FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.



**3** TRACE METALS STAGING AND STORAGE ROOM  
- ROOF PLAN  
E2.21 SCALE: 1:50

**KEYNOTES:**  
◇ PROVIDE IN-USE TYPE WEATHERPROOF GFCI RECEPTACLE MINIMUM 750MMx75MM MOUNTED ON UNISTRUT FRAME.



**4** SERVICE PIT ELECTRICAL PLAN  
E2.21 SCALE: 1:50

1	ISSUED FOR BID	04/11/2015
revision	issue	date

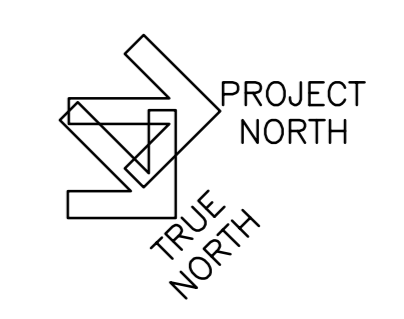
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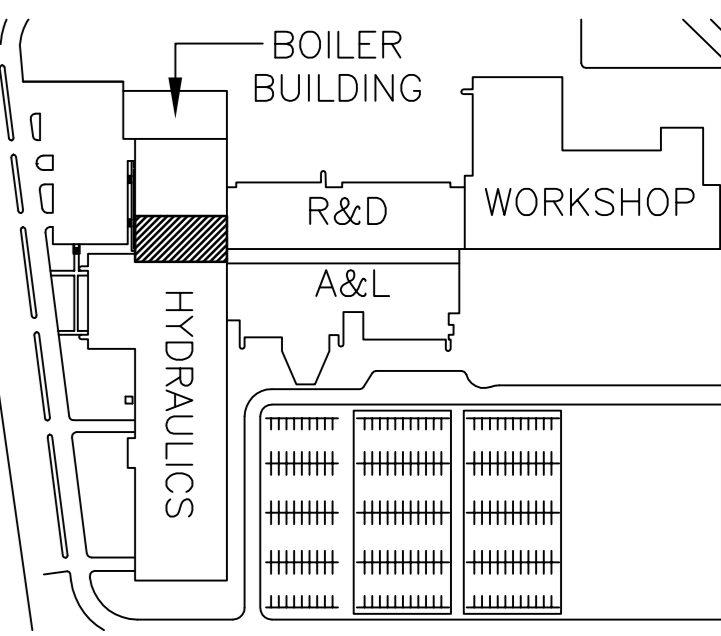
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B	No. du détail
B	drawing no. - where detail required
C	dessin no. - où détail exigé
C	drawing no. - where detailed
C	dessin no. - où détaillé

project title  
titre du projet  
**CANADA CENTRE FOR INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING UPGRADE

drawing title  
titre du dessin  
**HYDRAULICS WING TRACE METALS STAGING AND STORAGE ROOM ELECTRICAL PLAN**

drawn by dessiné par	DD
designed by conçu par	RT
approved by approuvé par	NA
job office	KC
project manager administrateur de projet	KC
project date date du projet	2015-02-24
project no. no. du projet	R.073578.001
	DIALOG NO. 09946T0200
drawing no. dessiné no.	E2.21





**KEY PLAN**  
N.T.S.

revision	issue	date
1	ISSUED FOR BID	04/11/2015

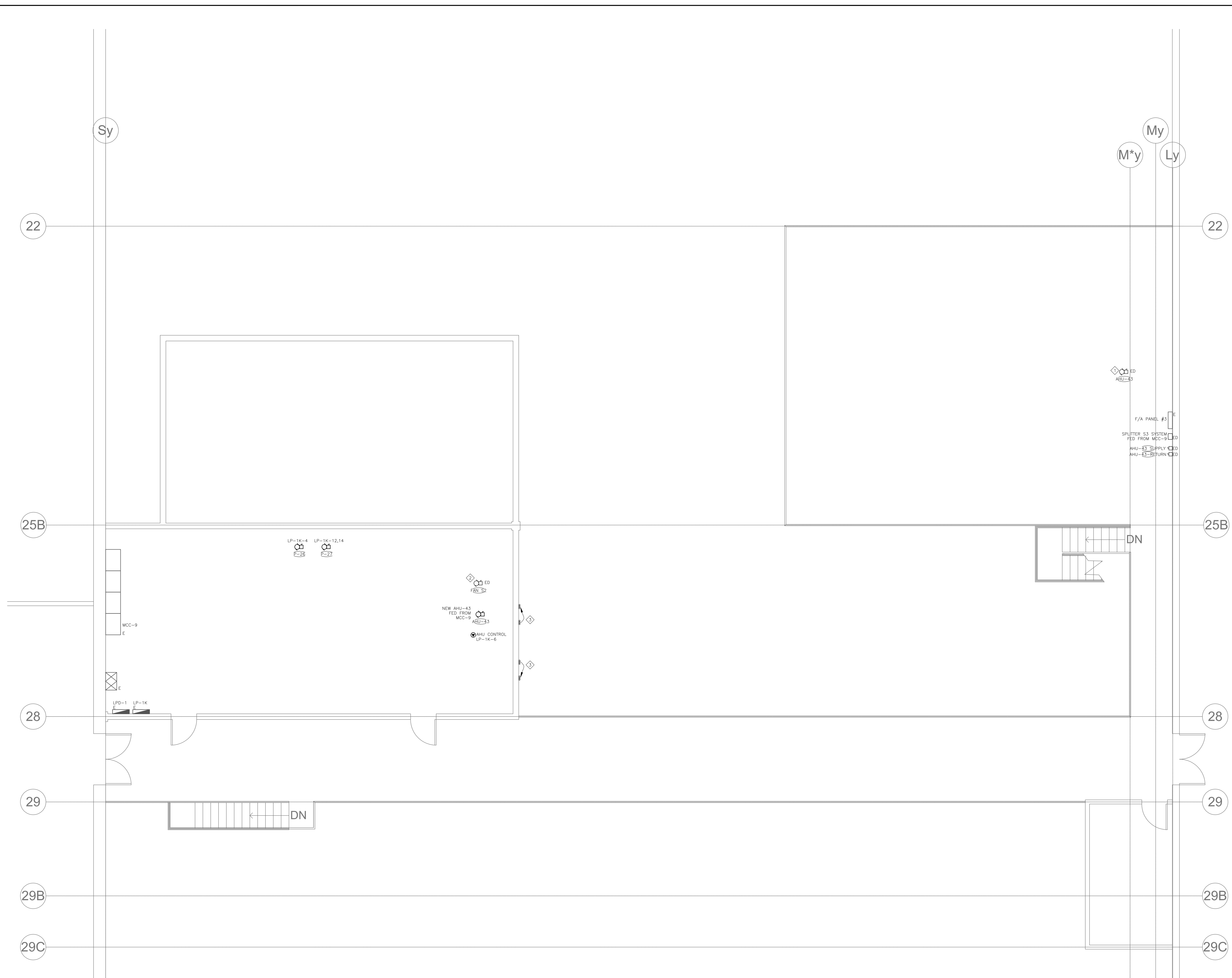
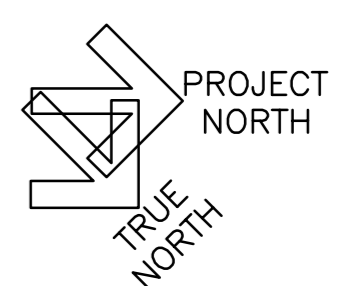
Do not scale drawings.  
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du détail
B	drawing no. - where detail required
B	dessin no. - où détail exigé
C	drawing no. - where detailed
C	dessin no. - où détaillé

project title  
titre du projet  
**CANADA CENTRE FOR  
INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON,  
ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING  
UPGRADE

drawing title  
titre du dessin  
**HYDRAULICS WING MEZZANINE  
ELECTRICAL PLAN**

drawn by dessiné par	DD
designed by conçu par	RT
approved by approuvé par	NA
job office	KC
project manager administrateur de projet	
project date date du projet	2015-02-24
project no. no. du projet	R.073578.001
	DIALOG NO. 09946T0200
drawing no. dessin no.	E2.22



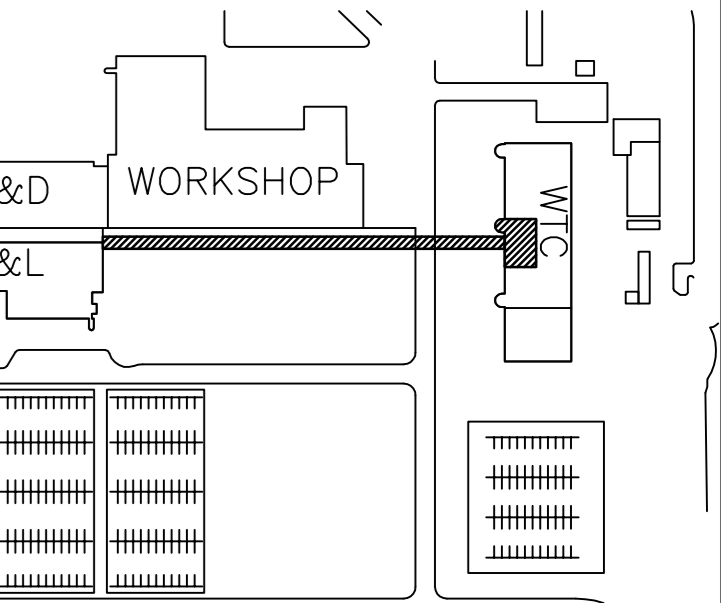
**1**  
E2.22  
**HYDRAULICS WING MEZZANINE  
- ELECTRICAL PLAN**  
SCALE: 1:50

- GENERAL NOTES:**
- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
  - REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.
  - CIRCUITING INDICATED FROM LP-1K IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO DETERMINE SPARE CIRCUITS WITHIN PANEL.
  - CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

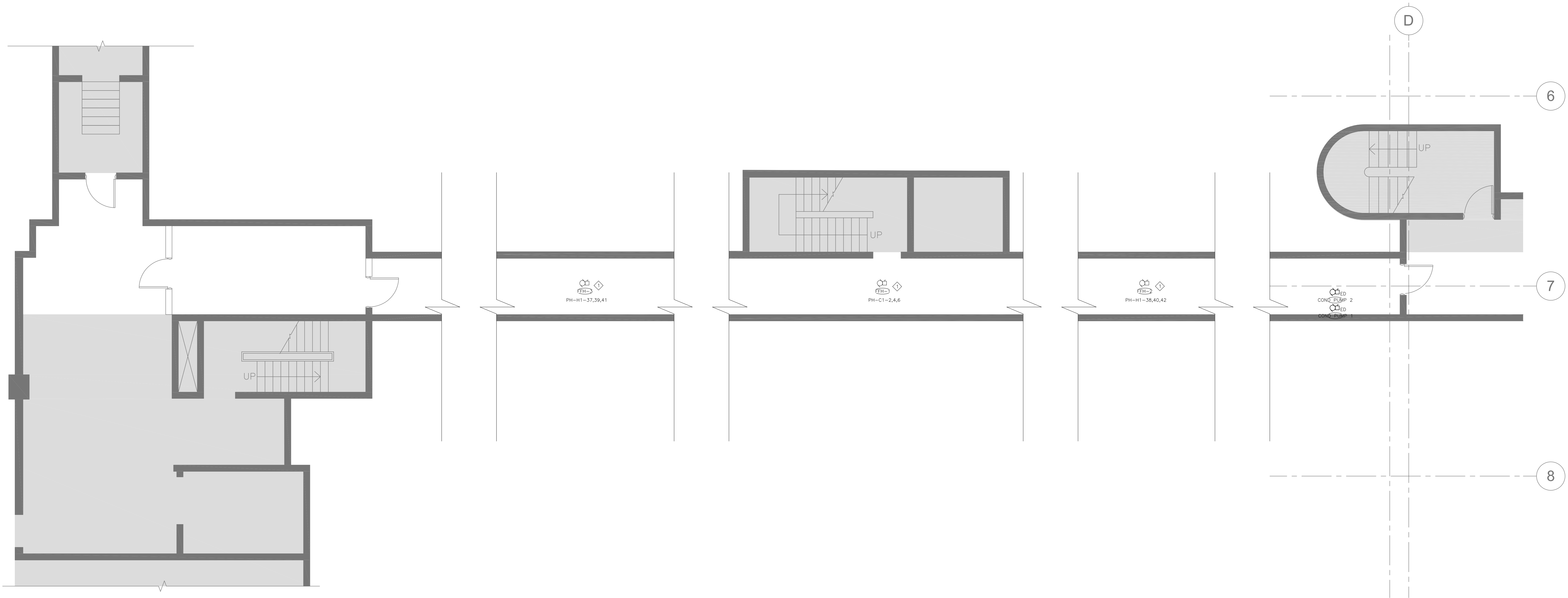
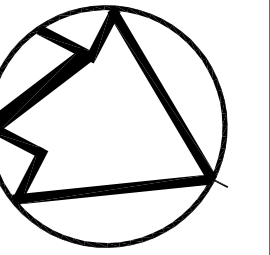
- KEYNOTES:**
- REMOVE ALL CIRCUITS TO EXISTING AHU-43.
  - REMOVE ALL CIRCUITS TO EXISTING SYSTEM S2 FAN, FED FROM MCC-9.
  - RELOCATE INDICATED VERTICAL CONDUITS (APPROXIMATELY 15M LENGTH) UP TO 15M HORIZONTALLY TO ALLOW FOR OPENING FOR NEW AIR HANDLING UNIT. EXTEND AND SPICE ALL CIRCUITS AS NEEDED. CARRY COSTS FOR SPLICING FOR 25 WIRES TOTAL.



Stamp



**KEY PLAN**  
N.T.S.



**1 WTC BUILDING TUNNEL - ELECTRICAL PLAN**  
E2.32 SCALE: 1:50

**GENERAL NOTES:**

1. WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
2. REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.
3. CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

◇ PROVIDE CIRCUITS FROM PANEL 'PH-H1' IN WTC PENHOUSE. REFER TO PARTIAL SINGLE LINE DIAGRAM ON DRAWING 5/E6.01.

revision	issue	date
1	ISSUED FOR BID	04/11/2015

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A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title  
titre du projet  
**CANADA CENTRE FOR  
INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON,  
ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING  
UPGRADE

drawing title  
titre du dessin  
**WTC BUILDING TUNNEL  
ELECTRICAL PLAN**

drawn by  
dessiné par **JZ**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

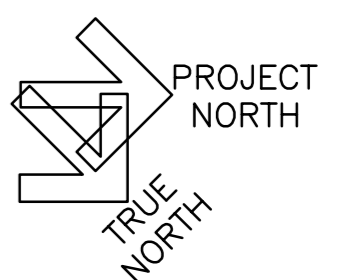
job  
offre **KC** project manager  
administrateur de projet

project date  
date du projet **2015-02-24**

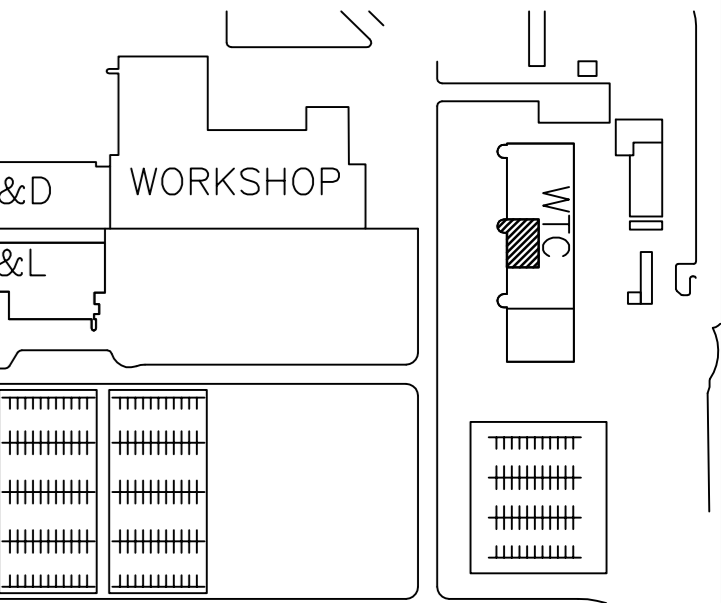
project no.  
no. du projet **R.073578.001**

**DIALOG NO. 09946T0200**

drawing no.  
dessiné no. **E2.30**



Stamp



**KEY PLAN**  
N.T.S.

revision	issue	date
1	ISSUED FOR BID	04/11/2015

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Detail No. No. du détail
A
B
C

project title  
titre du projet  
**CANADA CENTRE FOR  
INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON,  
ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING  
UPGRADE

drawing title  
titre du dessin  
**WTC BUILDING SECOND FLOOR  
ELECTRICAL PLAN**

drawn by  
dessiné par **DD**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

project manager  
administrateur de projet  
office **KC**

project date  
date du projet **2015-02-24**

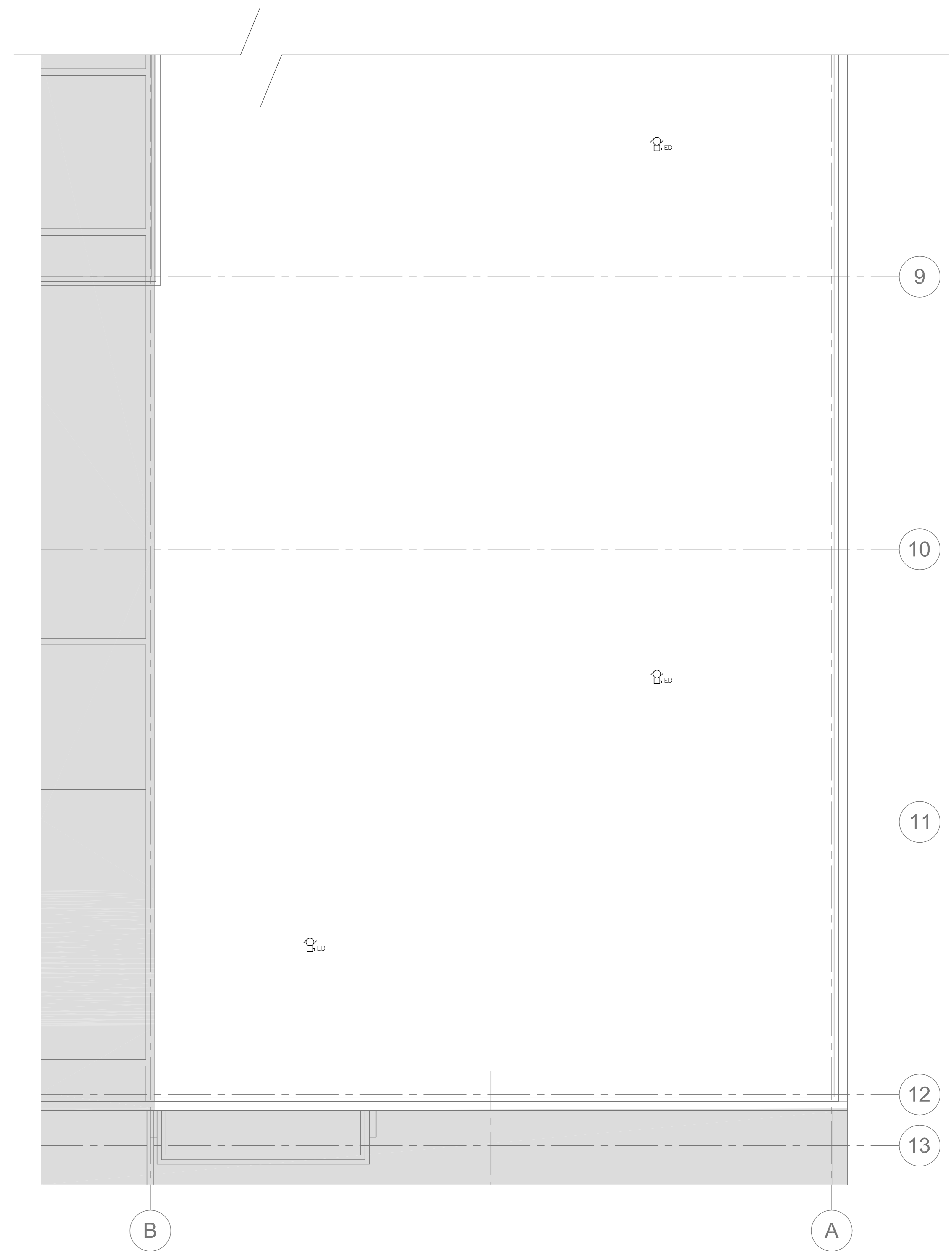
project no.  
no. du projet **R.073578.001**

**DIALOG NO. 09946T0200**

drawing no.  
dessiné no. **E2.31**



**1 WTC BUILDING SECOND FLOOR - ELECTRICAL PLAN**  
E2.30 SCALE: 1:50



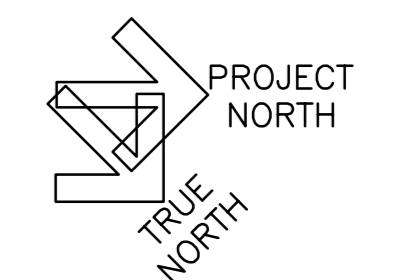
**2 WTC BUILDING SECOND FLOOR - ELECTRICAL PLAN (CONTINUED)**  
E2.30 SCALE: 1:50

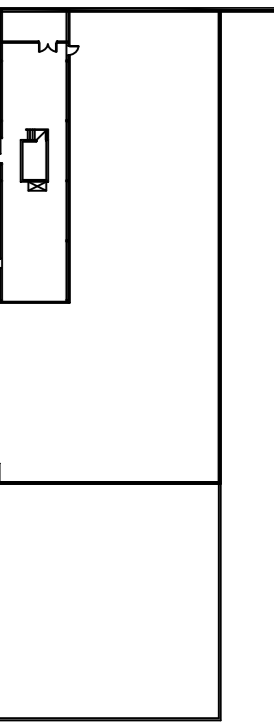
**GENERAL NOTES:**

- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL ANCILLARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

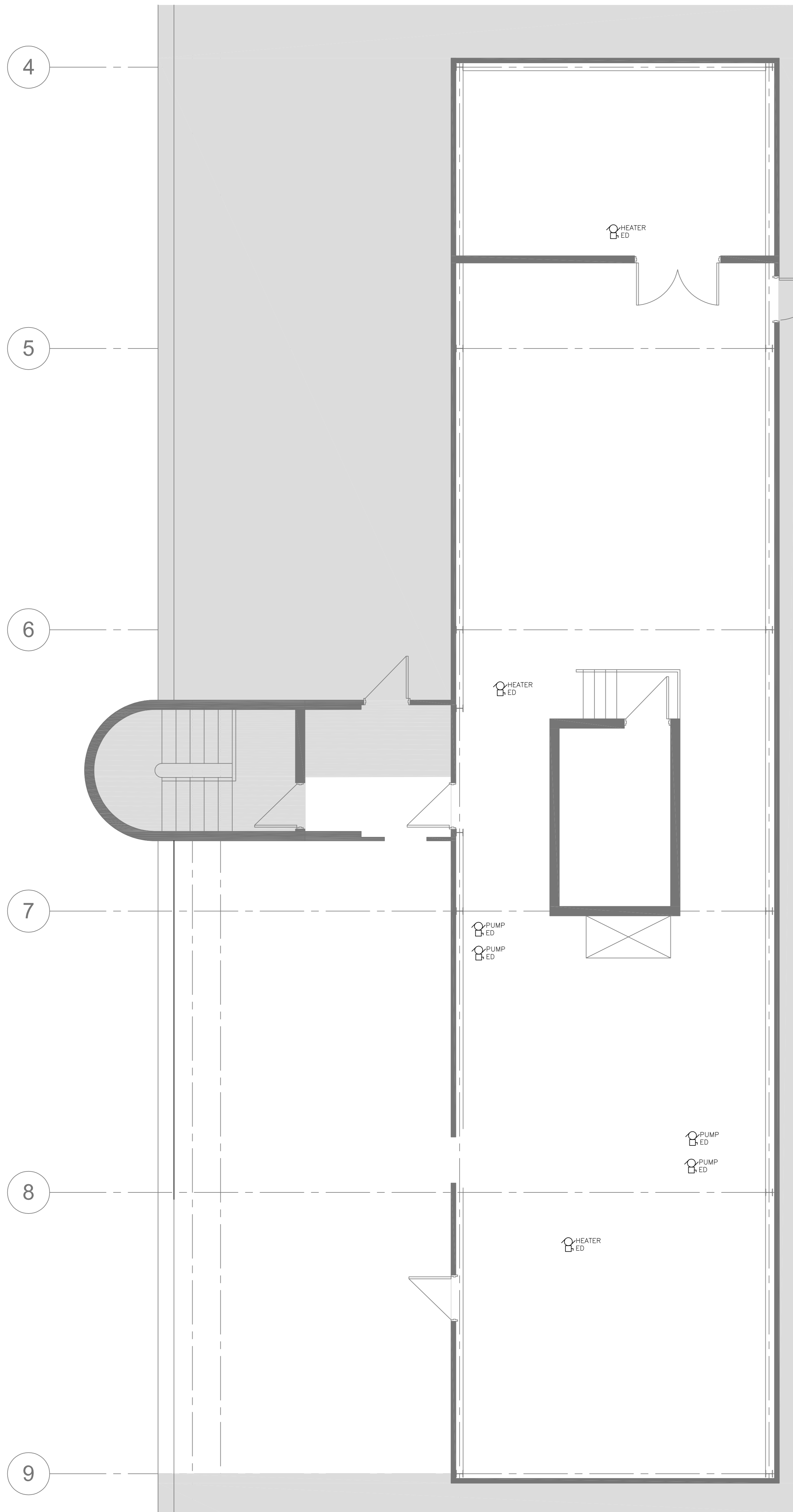
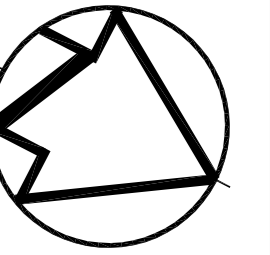
**KEYNOTES:**

- PROVIDE NEW 120V/15A BREAKER AND WIRING/CONDUIT FROM PANEL LP-14. CONFIRM SPARE WITHIN EXISTING PANEL PRIOR TO COMMENCING ROUGH-IN.





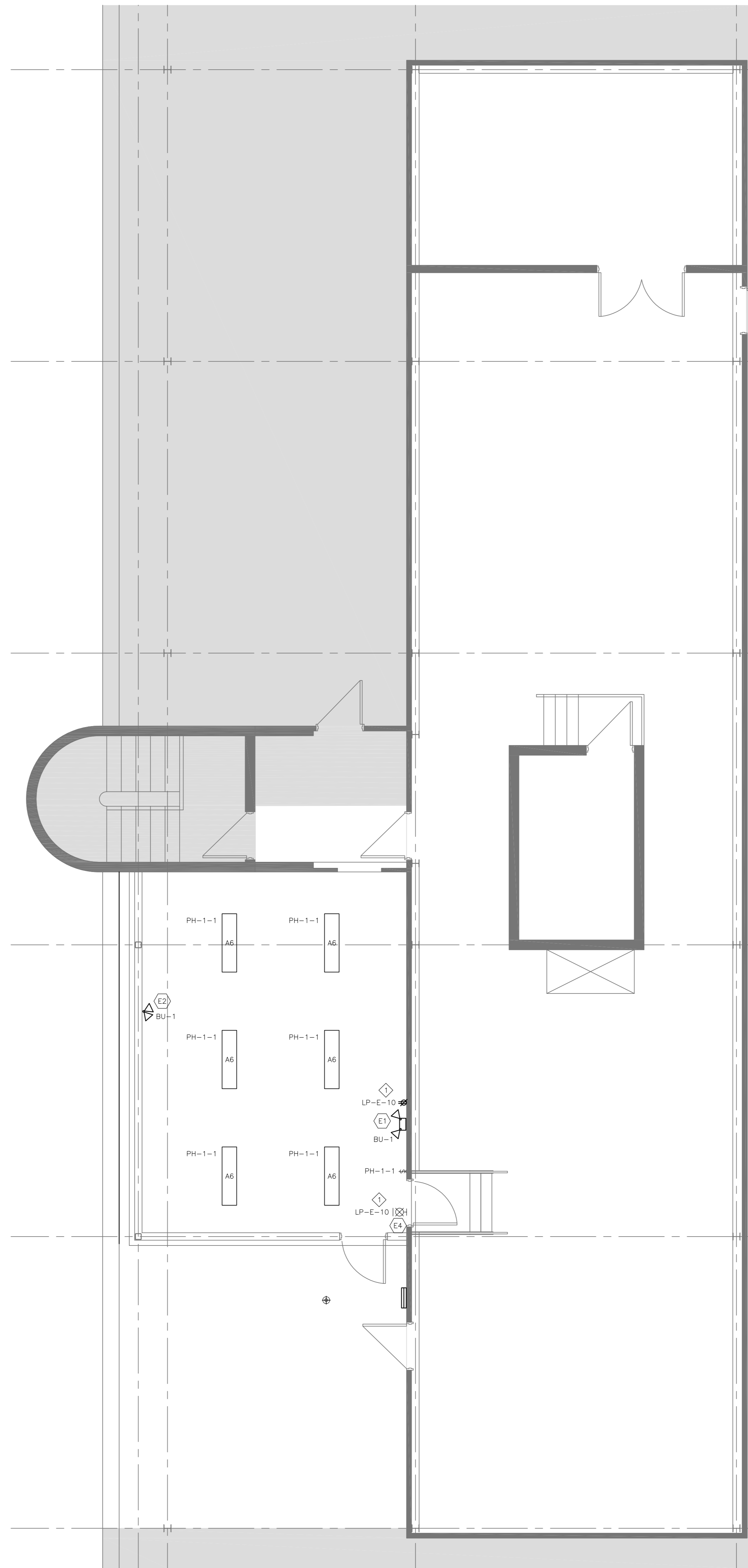
**KEY PLAN**  
N.T.S.



**1** WTC BUILDING PENTHOUSE - POWER DEMOLITION PLAN  
E2.31 SCALE: 1:50

**GENERAL NOTES:**

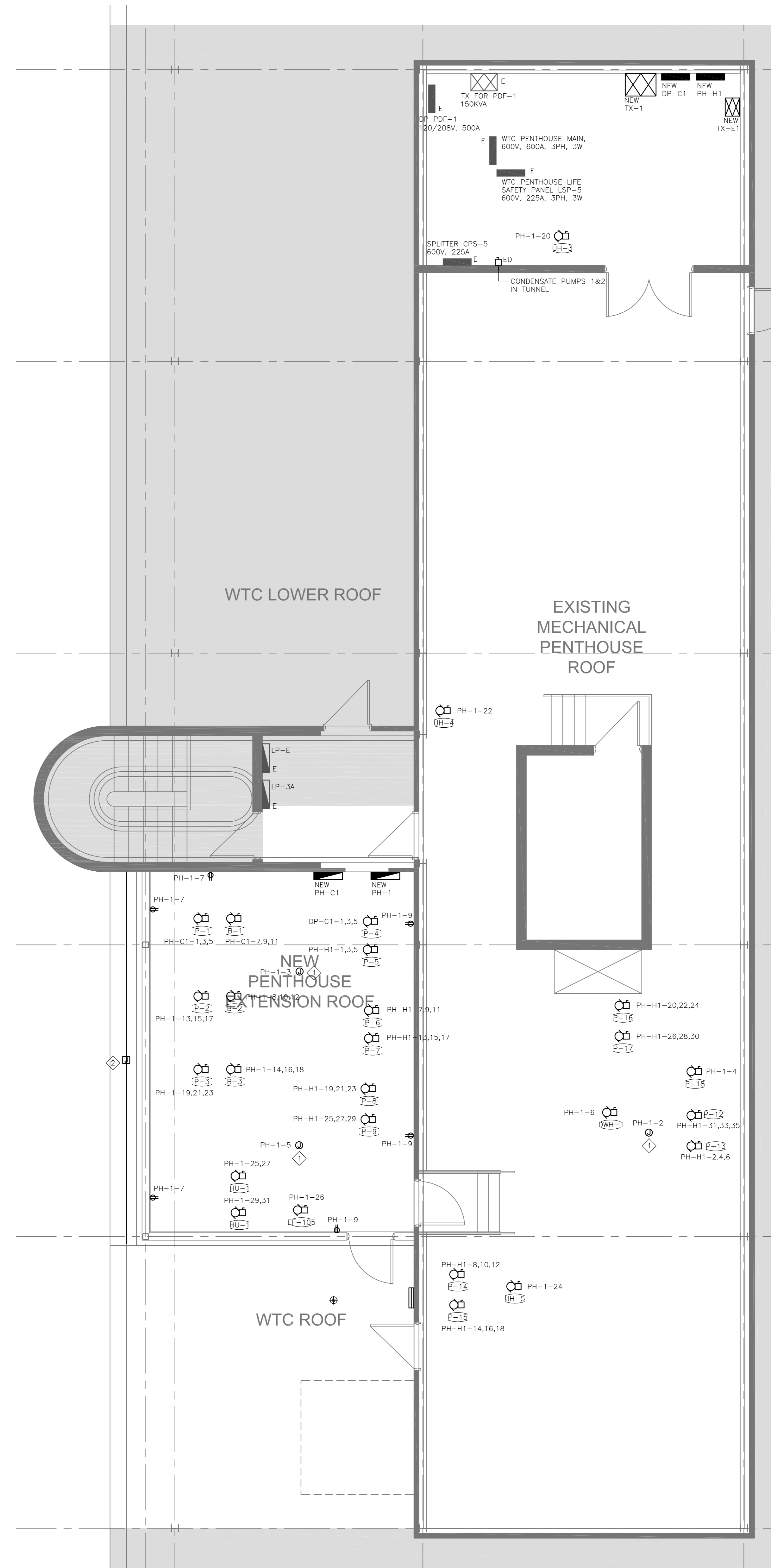
- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, REMOVE ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL AUXILIARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.



**2** WTC BUILDING PENTHOUSE - LIGHTING PLAN  
E2.31 SCALE: 1:50

**KEYNOTES:**

- UTILIZE EXISTING CIRCUITS FROM NOTED PANEL. CONTRACTOR TO VERIFY LOADS ON CIRCUIT PRIOR TO CONNECTING NEW LOADS.



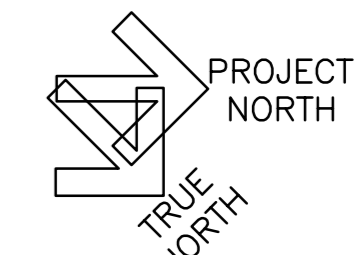
**3** WTC BUILDING PENTHOUSE - POWER PLAN  
E2.31 SCALE: 1:50

**GENERAL NOTES:**

- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

**KEYNOTES:**

- PROVIDE CIRCUITS INDICATED WITHIN CEILING JUNCTION BOX FOR MISCELLANEOUS MECHANICAL/CONTROLS CONNECTIONS. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR AND EXTEND THESE CIRCUITS WITHIN THE AREA AS REQUESTED BY THE TRADE.
- RELOCATE EXISTING ROOFTOP ELECTRICAL DEVICE AND RE-ROUTE ASSOCIATED CONDUIT/WIRING TO ACCOMMODATE NEW PENTHOUSE.



revision	issue	date
1	ISSUED FOR BID	04/11/2015

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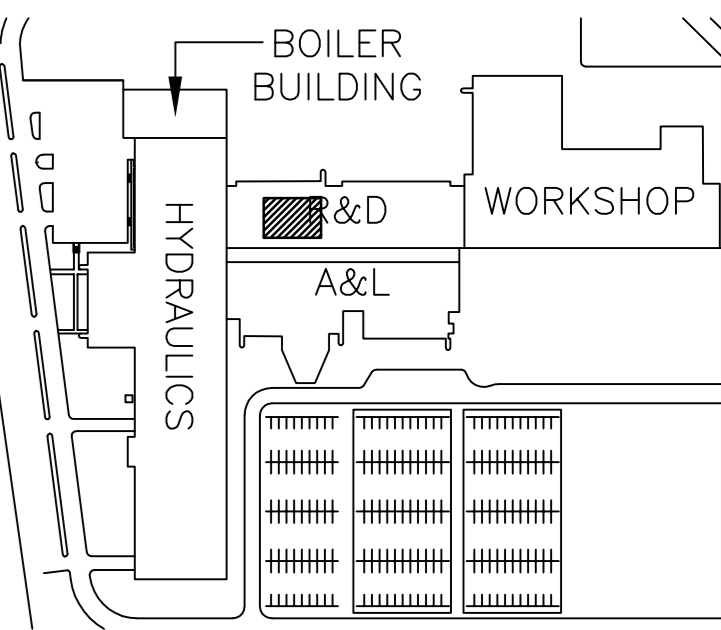
Detail No.	No. du détail
A	drawing no. - where detail required
B	desin no. - où détail exigé
C	drawing no. - where detailed
	desin no. - où détaillé

project title  
titre du projet  
**CANADA CENTRE FOR  
INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON,  
ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING  
UPGRADE

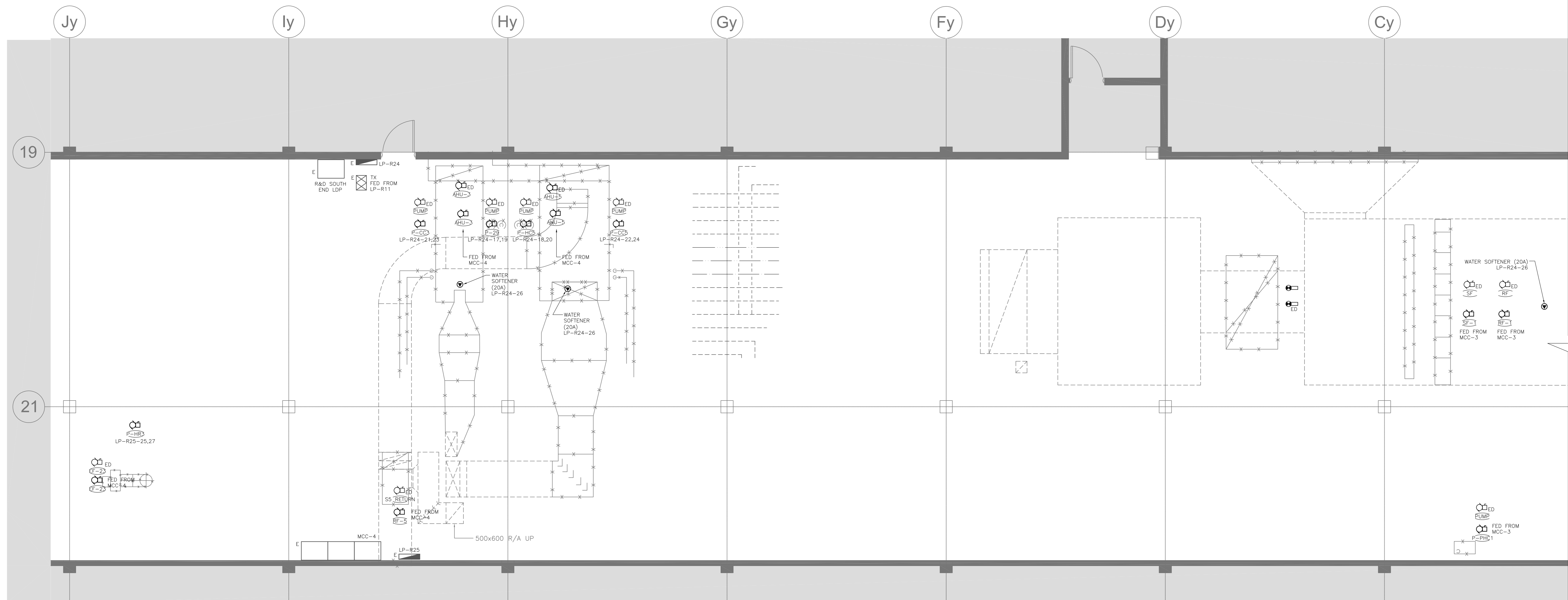
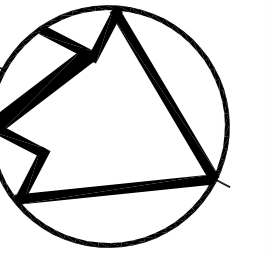
drawing title  
titre du dessin  
**WTC BUILDING PENTHOUSE  
ELECTRICAL PLAN**

drawn by dessiné par	DD	project manager administrateur de projet
designed by conçu par	RT	
approved by approuvé par	NA	
job office	KC	
project date date du projet	2015-02-24	
project no. no. du projet	R.073578.001	
drawing no. dessiné no.	DIALOG NO. 09946T0200 E2.32	

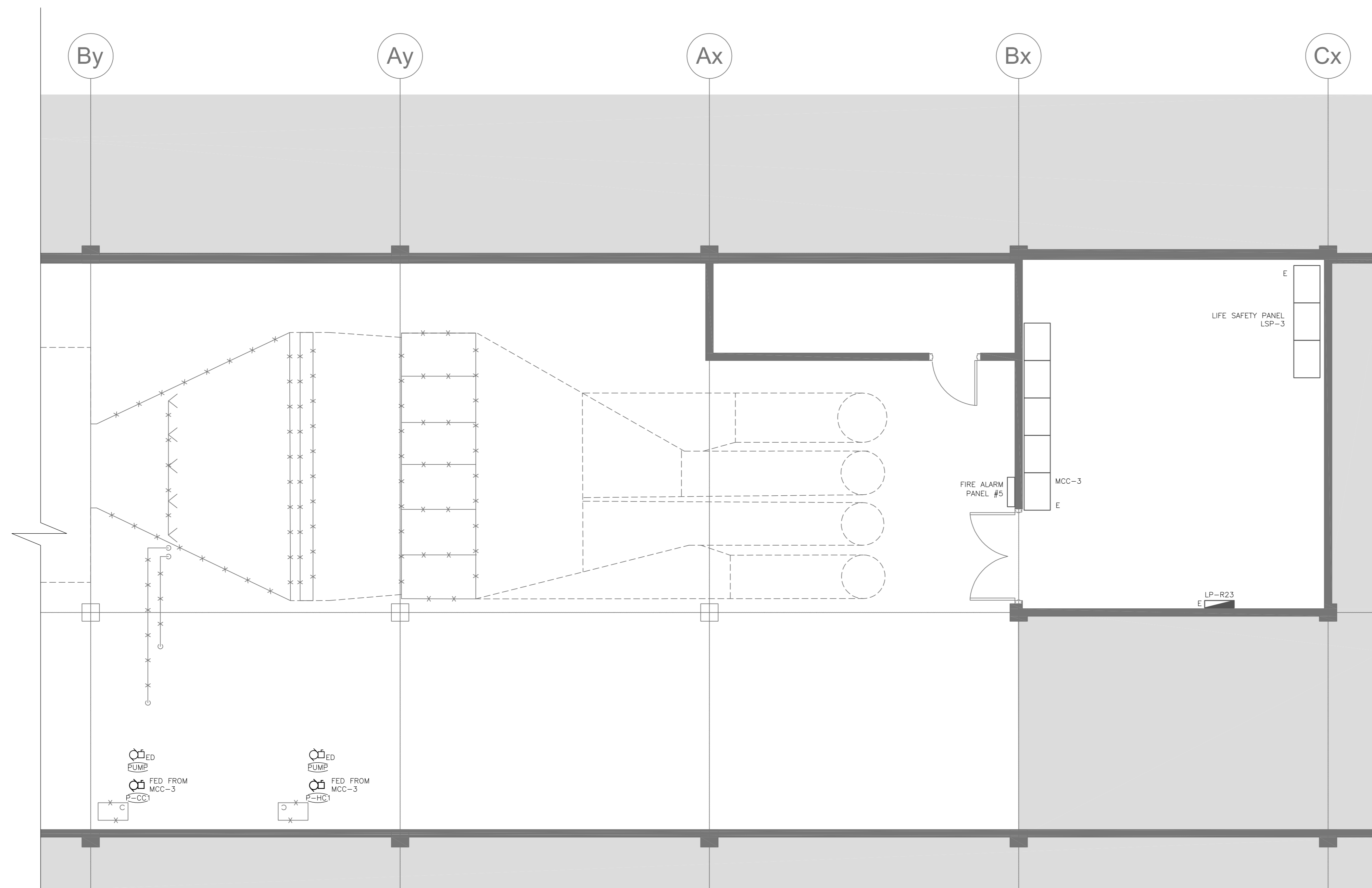
Stamp



**KEY PLAN**  
N.T.S.



**1**  
R&D PENTHOUSE  
- ELECTRICAL PLAN  
SCALE: 1:50



**2**  
R&D PENTHOUSE  
- ELECTRICAL PLAN (CONTINUED)  
SCALE: 1:50

**GENERAL NOTES:**

- WHERE MECHANICAL EQUIPMENT IS INDICATED FOR DEMOLITION, DEMOLISH ALL BREAKERS, WIRING, CONDUIT, STARTERS, DISCONNECTS AND ALL AUXILIARY DEVICES UNLESS OTHERWISE INDICATED.
- REMOVE ALL REDUNDANT WIRING AND RACEWAY BACK TO SOURCE.
- CONTRACTOR SHALL SCAN SLAB PRIOR TO ANY CORING AND/OR CUTTING.

revision	issue	date
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project title  
titre du projet  
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867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING UPGRADE

drawing title  
titre du dessin  
**R&D PENTHOUSE ELECTRICAL PLAN**

drawn by  
dessiné par **DD**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

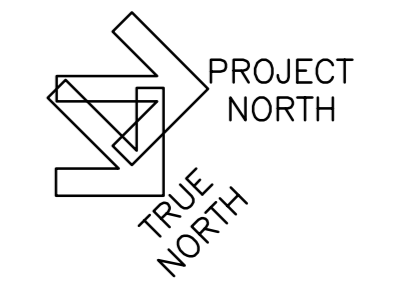
job office  
bureau de projet **KC** project manager  
administrateur de projet

project date  
date du projet **2015-02-24**

project no.  
no. du projet **R.073578.001**

drawing no.  
dessiné no. **DIALOG NO. 09946T0200**

drawing no.  
dessiné no. **E2.40**



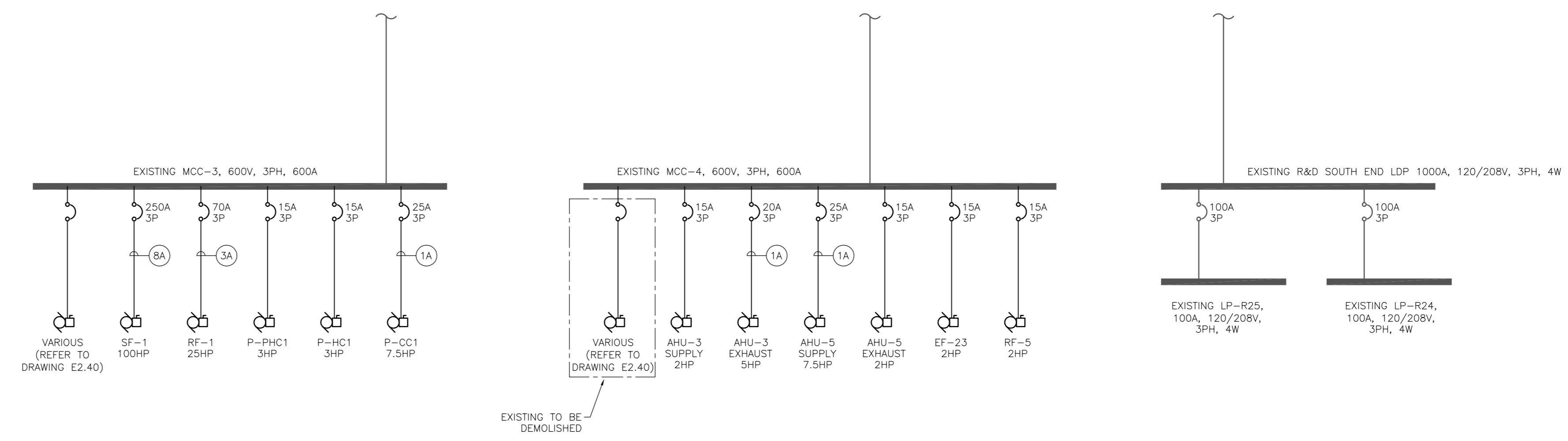




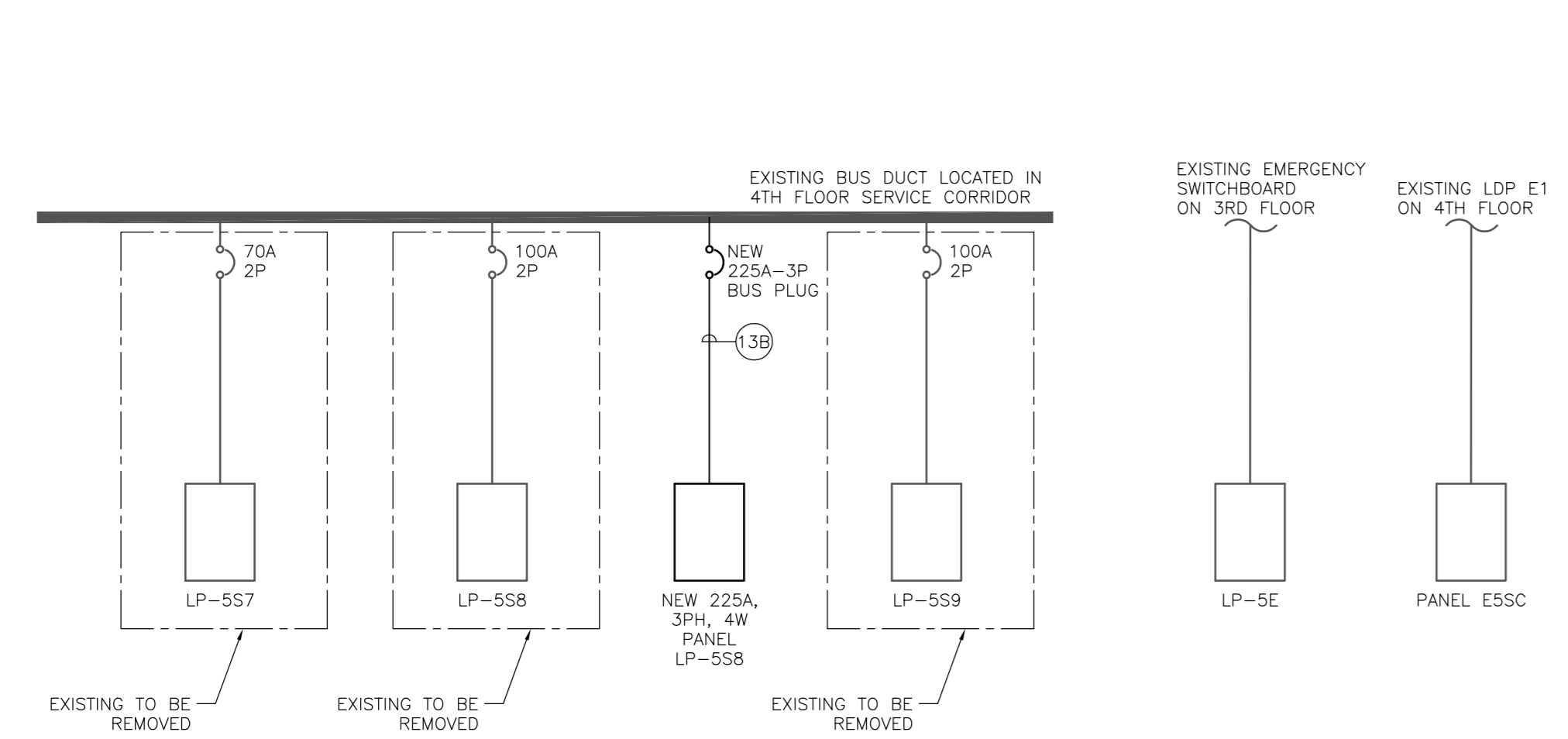
**1 A&L OFFICE SLD PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



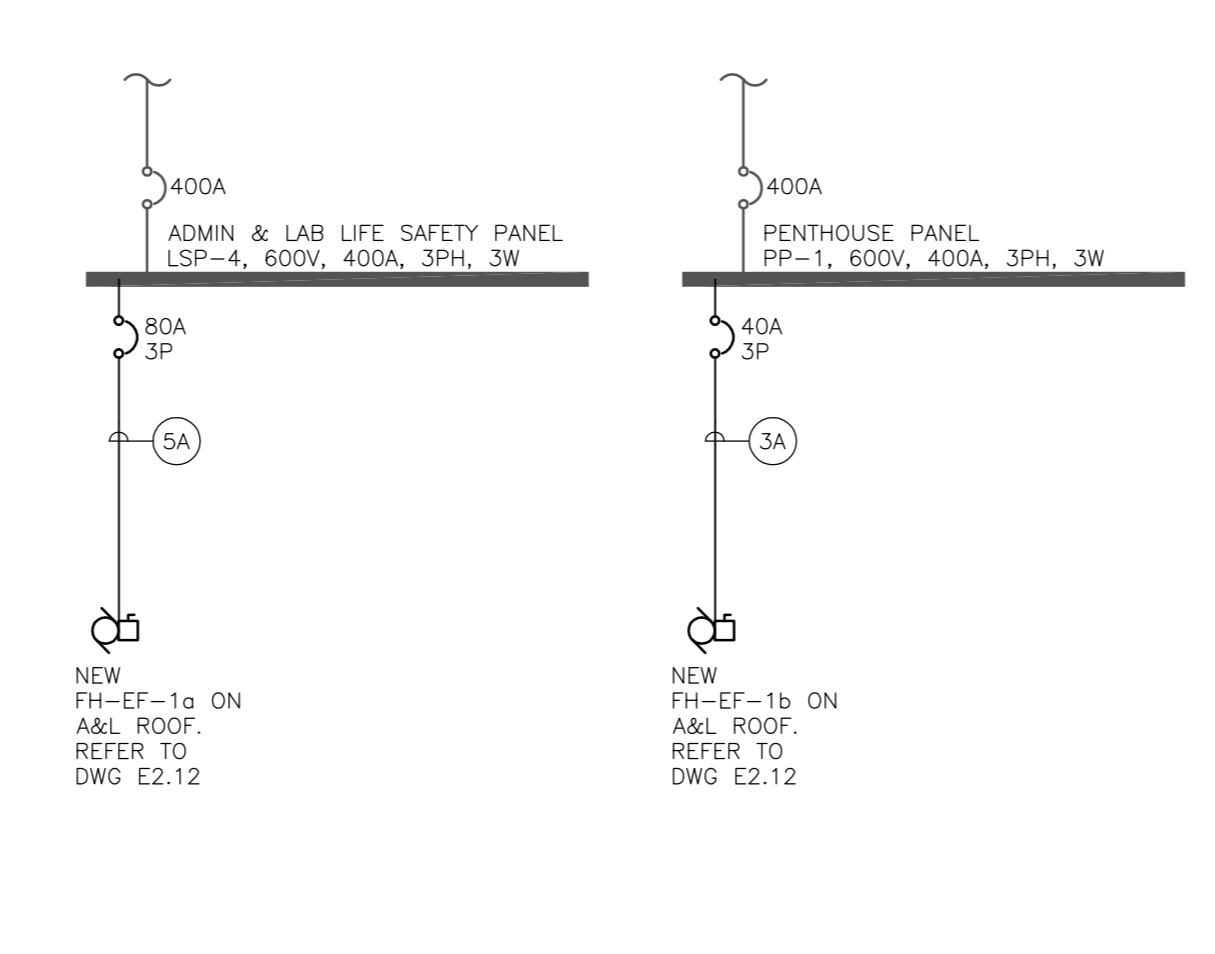
**2 R&D PENTHOUSE PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



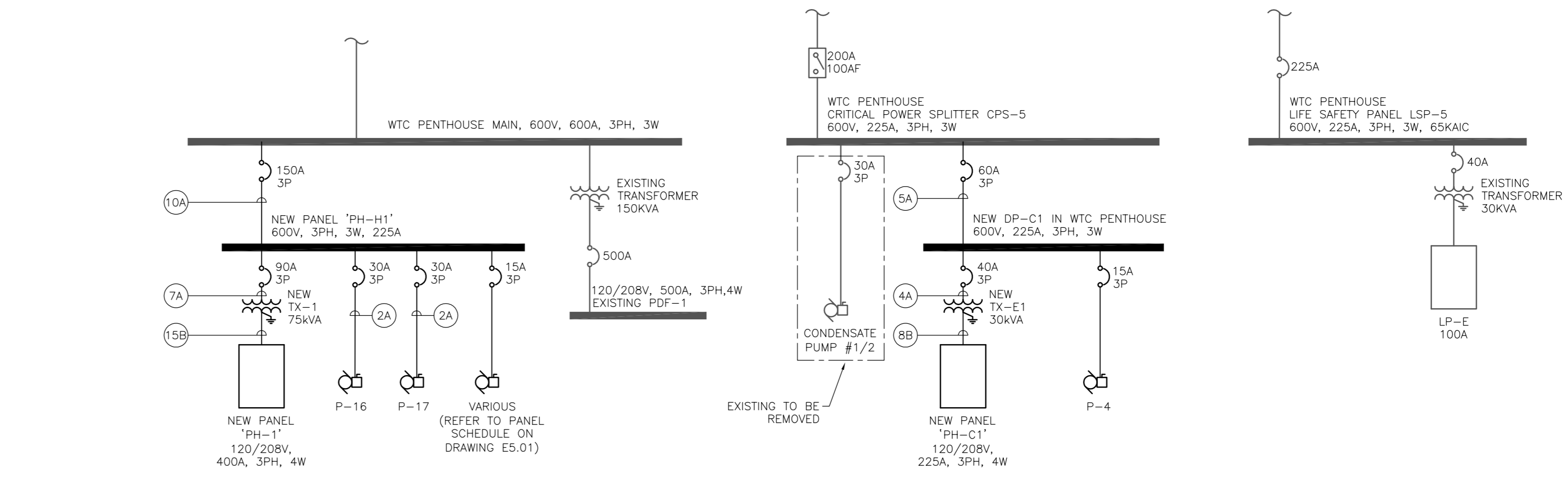
**3 A&L L527/L530 PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



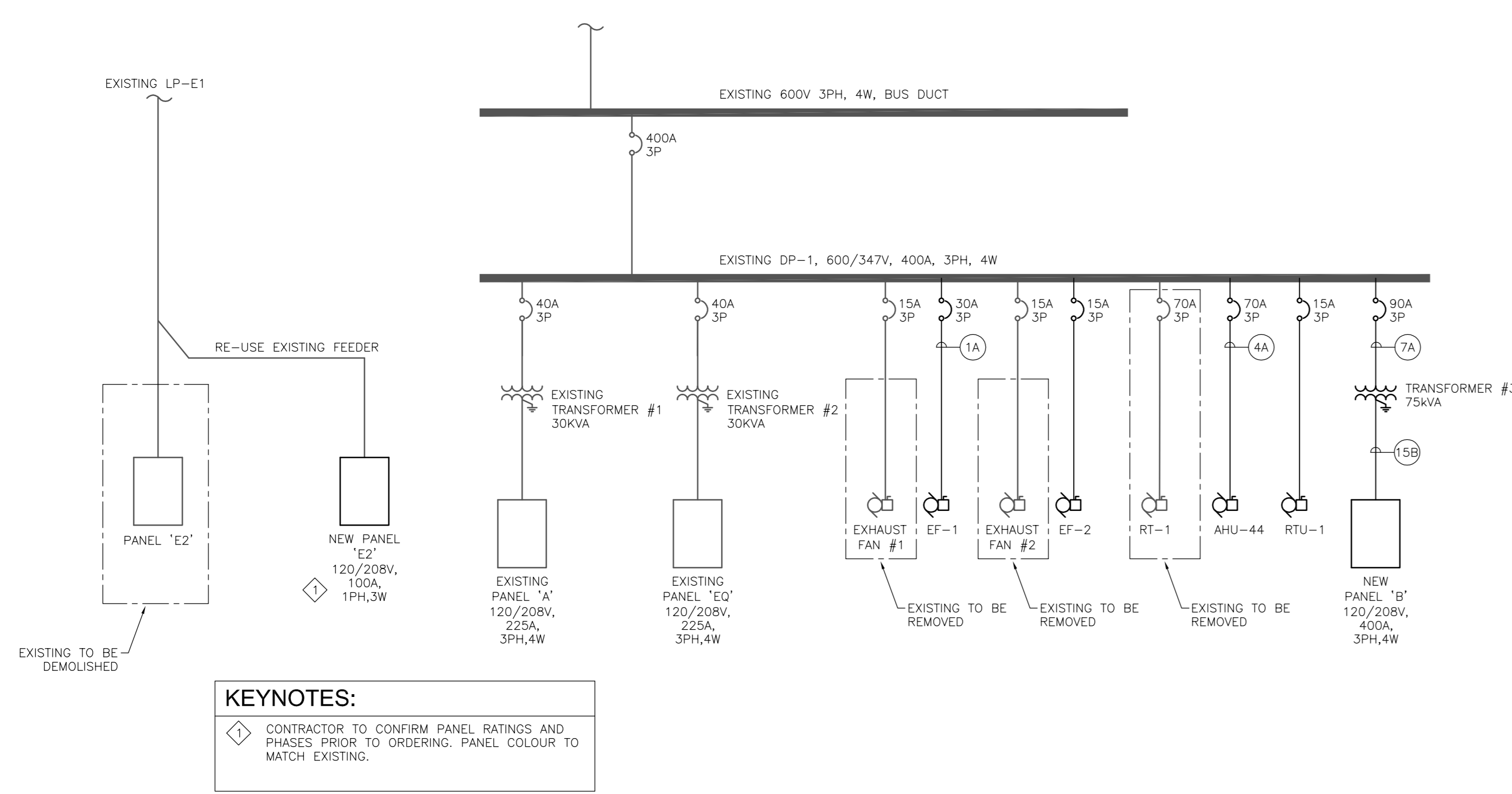
**4 A&L PENTHOUSE PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



**5 WTC PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS

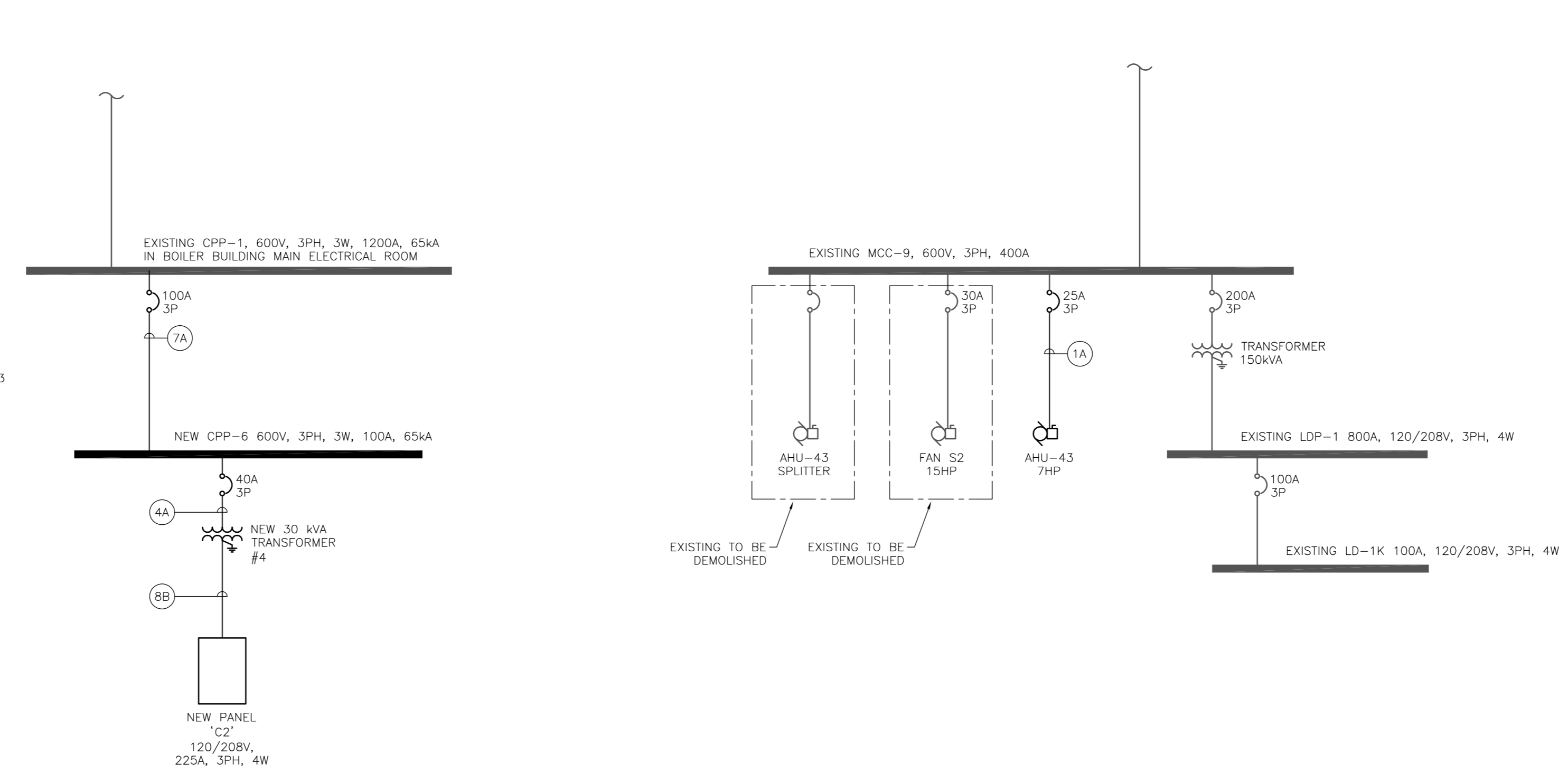


**6 HYDRAULICS H158, TRACE METALS STAGING AND STORAGE ROOM PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



**KEYNOTES:**  
 ◊ CONTRACTOR TO CONFIRM PANEL RATINGS AND PHASES PRIOR TO ORDERING. PANEL COLOUR TO MATCH EXISTING.

**7 HYDRAULICS MEZZANINE PARTIAL SINGLE LINE DIAGRAM**  
EG.01 SCALE: NTS



FEEDER SCHEDULE (75°C CONDUCTOR RATING)				
FEEDER AMPS (A)	FEEDER NO.	FEEDER GROUP (COPPER - 600V)		FEEDER BONDING CONDUCTOR
		A 3P/3W (3) AWG	B 3P/4W (4) AWG	
20	1	#12, 21mmC	#12, 21mmC	12
25	2	#12, 21mmC	#12, 21mmC	12
35	3	#10, 21mmC	#10, 21mmC	12
50	4	#8, 21mmC	#8, 27mmC	10
65	5	#6, 27mmC	#6, 35mmC	8
85	6	#4, 35mmC	#4, 35mmC	8
100	7	#3, 35mmC	#3, 35mmC	6
115	8	#2, 35mmC	#2, 41mmC	6
130	9	#1, 41mmC	#1, 53mmC	6
150	10	#10, 53mmC	#10, 53mmC	6
175	11	#20, 53mmC	#20, 53mmC	6
200	12	#30, 53mmC	#30, 63mmC	4
230	13	#40, 63mmC	#40, 63mmC	4
255	14	#50MCM, 63mmC	#250MCM, 75mmC	4
285	15	#300MCM, 75mmC	#300MCM, 75mmC	4
310	16	#350MCM, 75mmC	#350MCM, 75mmC	3
335	17	#400MCM, 75mmC	#400MCM, 91mmC	3
380	18	#500MCM, 91mmC	#500MCM, 103mmC	3
420	19	#600MCM, 103mmC	#600MCM, 103mmC	1
475	20	#750MCM, 103mmC	#750MCM, 103mmC	1

NOTES:  
 1. PROVIDE BONDING WIRE IN ALL CONDUITS. SIZE AS PER LATEST CANADIAN ELECTRICAL CODE  
 2. ALL SIZES ARE BASED ON COPPER CONDUCTORS  
 3. PROVIDE BONDING CONDUCTOR SIZED FOR FEEDER AMPACITY FOR PARALLEL FEEDS.

1	ISSUED FOR BID	04/11/2015
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revision	issue	date
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Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du détail
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	dessin no. - où détail exigé
	drawing no. - where detailed
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project title  
titre du projet  
**CANADA CENTRE FOR INLAND WATERS**  
 867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
 LABS, AHUs, AND HEATING UPGRADE

drawing title  
titre du dessin  
**ELECTRICAL PARTIAL SINGLE LINE DIAGRAMS**

drawn by  
dessiné par **DD**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

job office  
poste de travail **KC**

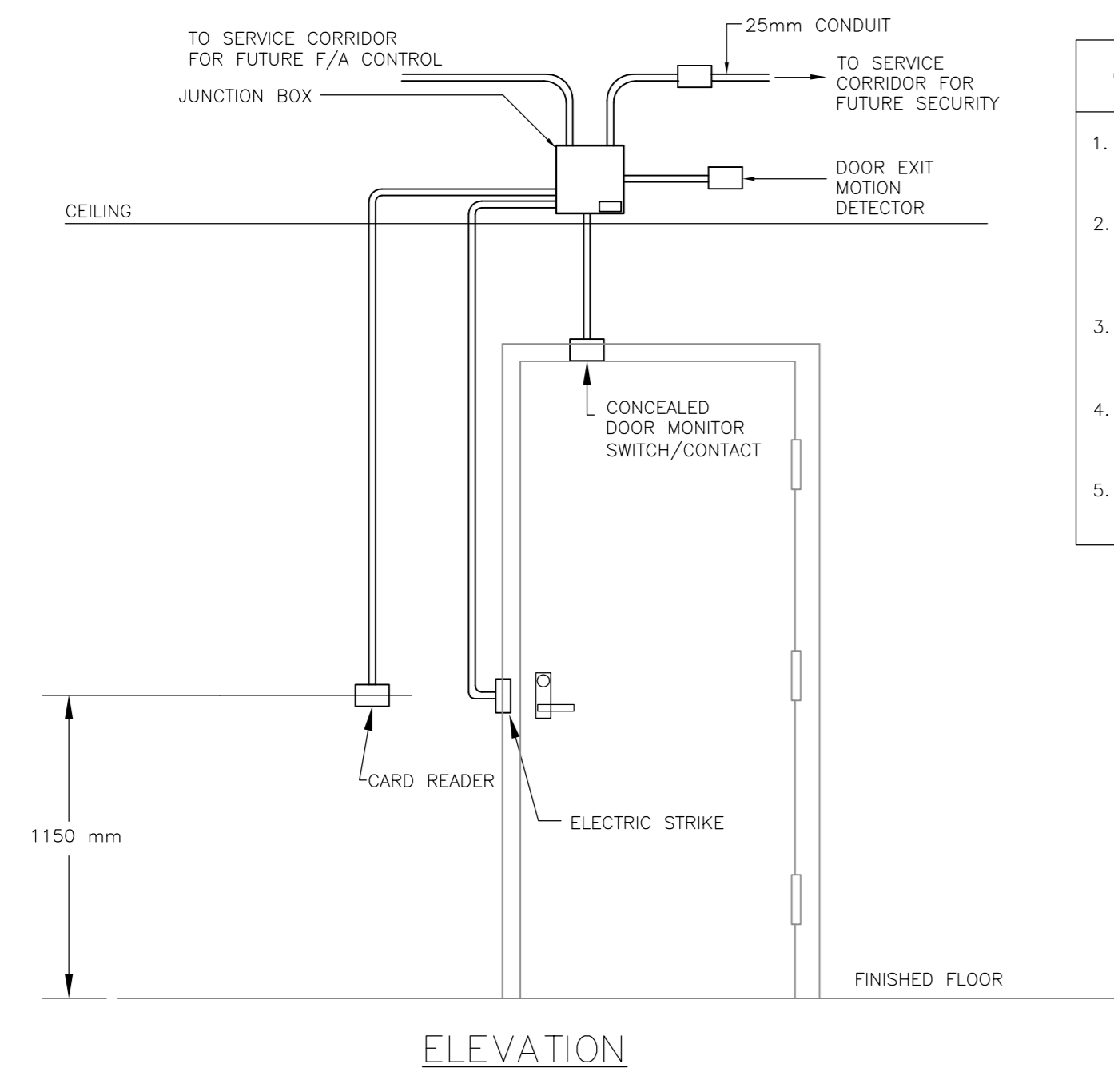
project manager  
administrateur de projet **KC**

project date  
date du projet **2015-02-24**

project no.  
no. du projet **R.073578.001**

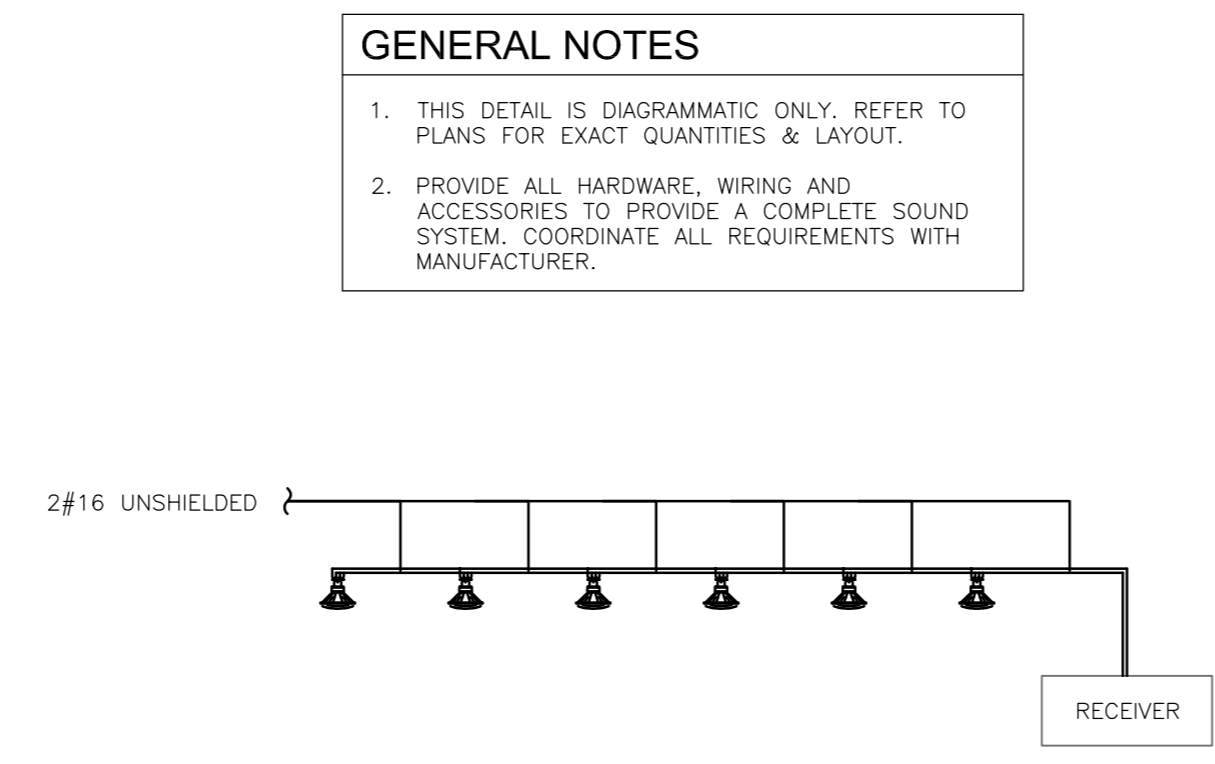
drawing no.  
dessiné no. **DIALOG NO. 09946T0200**

EG.01



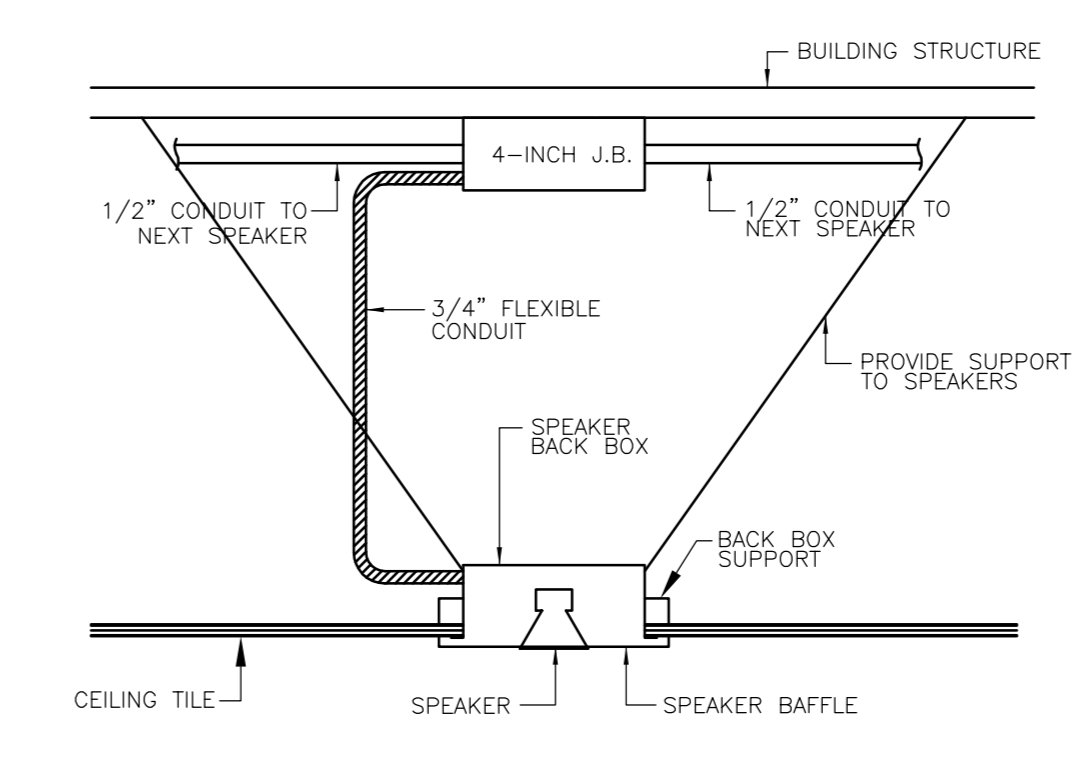
- GENERAL NOTES:**
1. CONDUIT AND ROUGH-INS ONLY. PROVIDE BLANK COVER PLATES FOR ALL BLANK DEVICES BOXES.
  2. REFER TO FLOOR PLANS FOR DEVICE TYPES, LOCATIONS AND QUANTITIES. PROVIDE ROUGH-IN COMPLETE WITH PULL STRINGS.
  3. ALL CONDUIT, OUTLET BOXES (SINGLE GANG) TO BE SUPPLIED BY ELECTRICAL DIVISION.
  4. ALL JUNCTION BOXES SHALL BE MOUNTED IN SECURE SIDE OF THE FLOOR SPACE.
  5. SECURITY DEVICES SHALL BE RECESSED MOUNTED IN SINGLE GANG BACKBOXES.

**1 CARD READER/DOOR DETAIL**  
E6.02 SCALE: N.T.S.

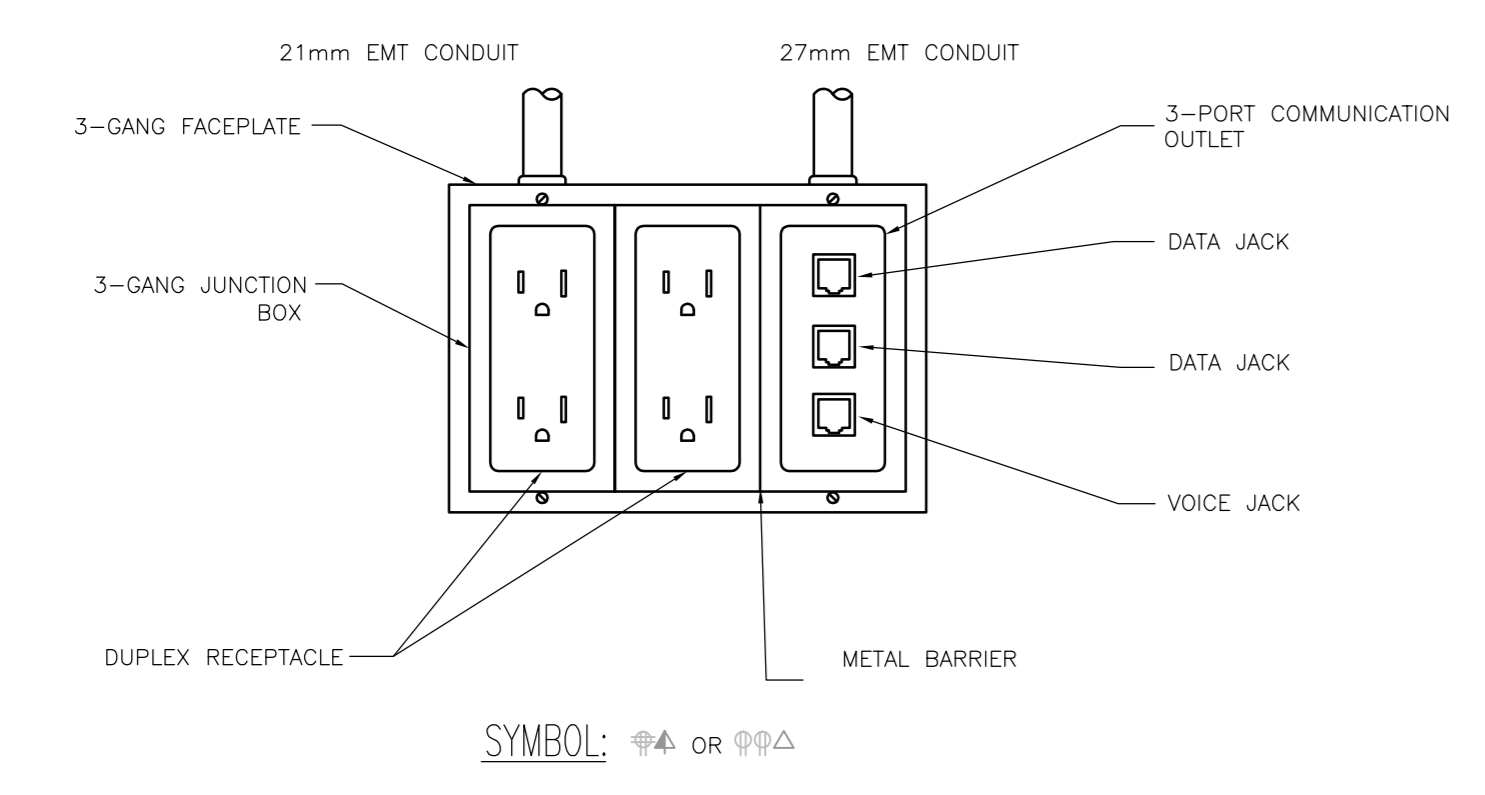


- GENERAL NOTES**
1. THIS DETAIL IS DIAGRAMATIC ONLY. REFER TO PLANS FOR EXACT QUANTITIES & LAYOUT.
  2. PROVIDE ALL HARDWARE, WIRING AND ACCESSORIES TO PROVIDE A COMPLETE SOUND SYSTEM COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.

**2 LAB SOUND SYSTEM SCHEMATIC**  
E6.02 SCALE: N.T.S.

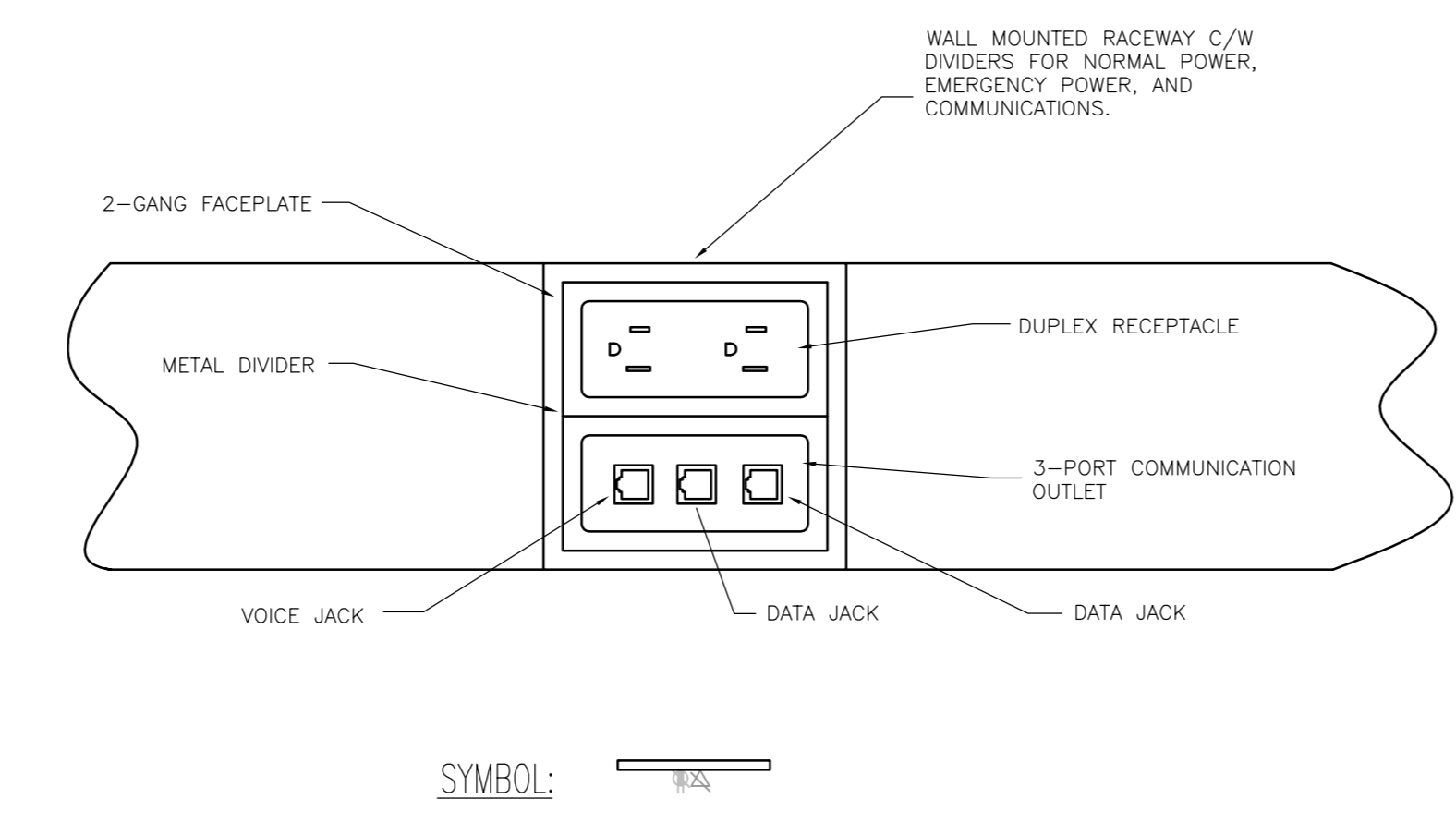


**3 LAB SOUND SYSTEM SPEAKER MOUNTING DETAIL**  
E6.02 SCALE: N.T.S.



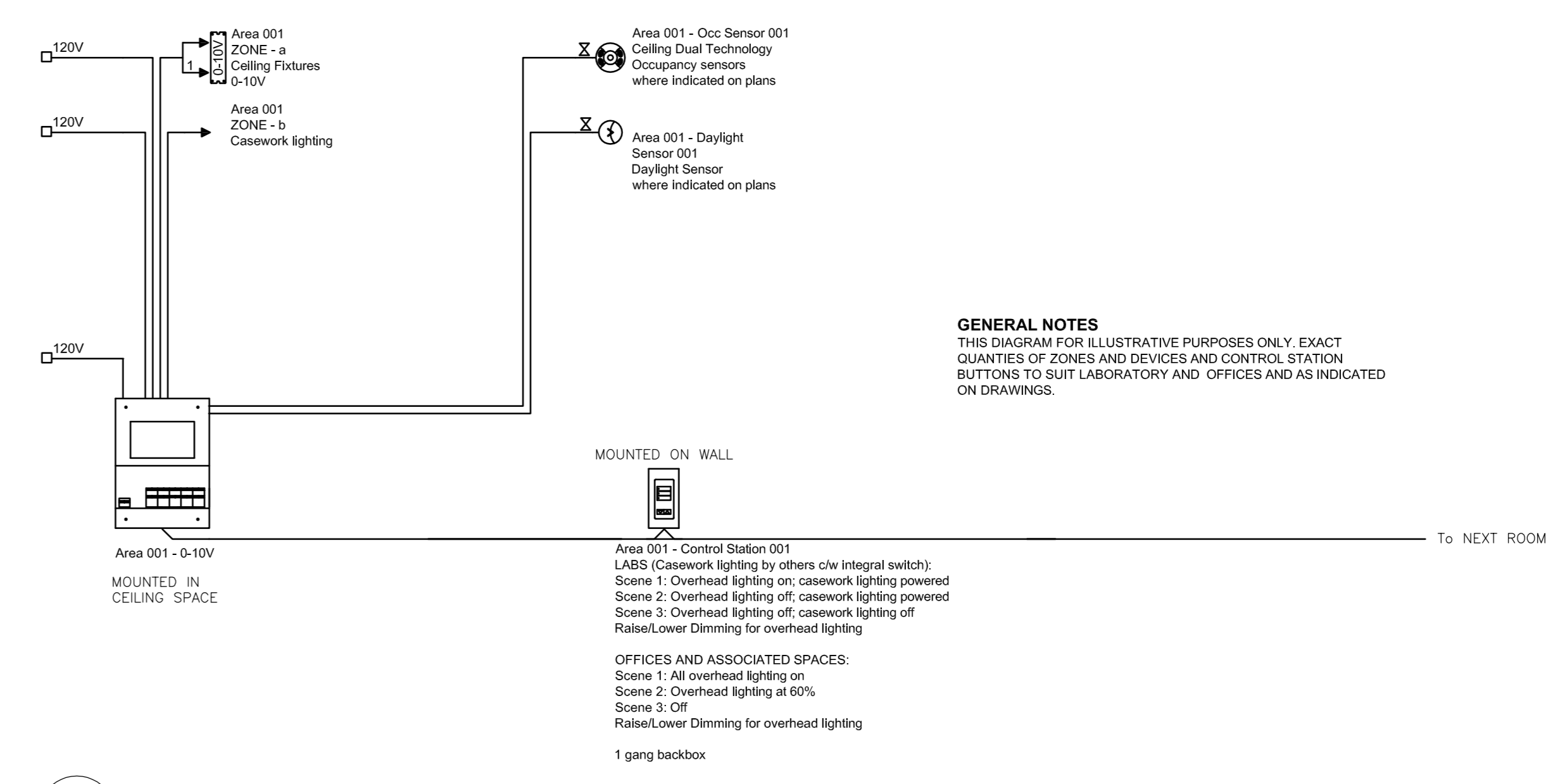
- DETAIL NOTES:**
1. PROVIDE STAINLESS STEEL COVERPLATES IN LABS AND CORRIDORS. ALL COVERPLATES IN OFFICES TO BE WHITE.
  2. NUMBER OF COMMUNICATION CABLES TERMINATED IN EACH OUTLET MAY VARY. FOR EXACT NUMBER OF COMMUNICATION CABLES AT EACH OUTLET REFER TO PLANS.

**4 TYPICAL WALL MOUNTED POWER AND DATA OUTLETS DETAIL**  
E6.02 SCALE: N.T.S.



- DETAIL NOTES:**
1. NUMBER OF COMMUNICATION CABLES TERMINATED IN EACH OUTLET MAY VARY. FOR EXACT NUMBER OF COMMUNICATION CABLES AT EACH OUTLET REFER TO PLANS.

**5 TYPICAL POWER AND DATA OUTLETS MOUNTED ON RACEWAY**  
E6.02 SCALE: N.T.S.



- GENERAL NOTES**
- THIS DIAGRAM FOR ILLUSTRATIVE PURPOSES ONLY. EXACT QUANTITIES OF ZONES AND DEVICES AND CONTROL STATION BUTTONS TO SUIT LABORATORY AND OFFICES AND AS INDICATED ON DRAWINGS.

**6 TYPICAL LIGHTING CONTROL DETAIL FOR LABS AND OFFICES**  
E6.02 SCALE: N.T.S.

1	ISSUED FOR BID	04/11/2015
revision	issue	date

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	No. du détail
B	drawing no. - where detail required
B	dessin no. - où détail exigé
C	drawing no. - where detailed
C	dessin no. - où détaillé

project title  
titre du projet

**CANADA CENTRE FOR INLAND WATERS**  
867 LAKESHORE ROAD BURLINGTON, ONTARIO, L7R 4A6  
LABS, AHUs, AND HEATING UPGRADE

drawing title  
titre du dessin

**ELECTRICAL DETAILS**

drawn by  
dessiné par **DD**

designed by  
conçu par **RT**

approved by  
approuvé par **NA**

job  
offre **KC** project manager  
administrateur de projet

project date  
date du projet **2015-02-24**

project no.  
no. du projet **R.073578.001**

**DIALOG NO. 09946T0200**  
drawing no.  
dessiné no. **E6.02**