

Project Name:	City of Mississauga Fire Station 123 3050 The Collegeway, Mississauga, ON	Date Issued:	June 24, 2024
Quasar Project #:	CM-22-281		
DPAI Project #:	12301		
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Addendum #:	E02		
Revision #:	0		

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

1.0 Revisions to Specifications

.1 Section 26 05 00 – Common Work Results for Electrical

- i) Add enclosed ESA Plan Review comments.

2.0 Revisions to Drawings

.1 Drawing E-002 – Electrical Site Plan

- i) Add tag for EVSE-2.3 and EVSE-2.4.

.2 Drawing E-102 – Roof Power and Systems Plan

- i) EVPC-1 level 3 EV charger to be part of future scope.
- ii) Indicate locations of future transformers feeding future truck chargers TX-EVPC-1 and TX-EVPC-2 on roof.

.3 Drawing E-401– Large Scale Electrical Plans

- i) Add P2 keynote for stacked transformers.
- ii) Tag TX-RA and TX-PV with mounting level.

.4 Drawing E-601 – Single Line Diagram

- i) Delete outdoor NEMA rating and roof location from TX-PV location of TX-PV to be per drawing E-401.
- ii) Add feeder size for all EVSE feeders.
- iii) Change EVSE-2.3 & 2.4 from future to in-scope.
- iv) Delete two 250A/3P LSI circuit breakers and in lieu, add 300A/3P LSI circuit breaker c/w adjustable trip unit for fire truck EV charging stations.
- v) Change all equipment downstream of 300A/3P Fire Truck EV charging stations circuit breakers to future scope.
- vi) Show future transformer for each Fire Truck EV charging stations.
- vii) Show disconnect switch for each Fire Truck EV charging stations.
- viii) Add feeder sizes for 3W/C270 and 4W/C270 in the feeder schedules.



Quasar Consulting Group

A handwritten signature in black ink that reads "Christopher Borcsok".

Christopher Borcsok, P.Eng., LC, LEED AP

Senior Electrical Engineer

CB/bs

Low Voltage Report

QUASAR CONSULTING GROUP INC
Attn: Muhammad Shah
250 ROWNTREE DAIRY RD
WOODBIDGE ON L4L 9J7

NOTICE DATE: June 19, 2024
NOTIFICATION #: 40062363
PLAN REVIEWER: Braun, Gregory
INSPECTOR: Hyam, Thomas
TELEPHONE: (416)509-8169
PRINT DATE: June 19, 2024
CUSTOMER ID: 111107
CUST. ORDER #: N/A

Subject property:
CITY OF MISSISSAUGA FIRE STATION 123
SLD E-601 R6 800A
3050 THE COLLEGEWAY
MISSISSAUGA ON L5L 4X9

This office has examined the plans submitted by you for the low voltage portion of the above-noted installation. Work may commence on the project provided the installation is made in accordance with the submitted plans and specifications, the Ontario Electrical Safety Code and its supplements together with the following comments. Final approval of the installation is subject to field inspection.

1. This plan review is based on the Ontario Electrical Safety Code, 28th Edition / 2021.
2. Plans for the rooftop PV portion of the installation shall be submitted to the Plan Review Department prior to commencement of work. Rule 2-010, Bulletin 2-11-*
3. The drawings indicate the use of on-site manufactured cord sets to connect power to the fire trucks from a certified cord reel. All equipment must be approved by an accredited Certification Body, or accepted through field evaluation, or accepted by an Inspector under the provisions of Rule 2-024 of the current Ontario Electrical Safety Code. Rule 2-022, Rule 2-024, Bulletin 2-7-*
4. Each consumer's service shall be provided with a single service box certified to standard CSA C22.2 No 31 and shall be marked in a permanent manner with the following or equivalent wording #SUITABLE FOR USE AS SERVICE EQUIPMENT#. A service box is defined as an assembly consisting of an enclosure that can be locked or sealed, containing either fuses and a switch, or a circuit breaker, and of such design that it is possible to operate either the switch or circuit breaker to the open position by manual means when the box is closed. Rules 2-024 and 6-200 1)
5. The available fault current was not provided. All overcurrent protection shall be capable of interrupting the available fault current. Rule 14-012, Bulletin 14-4-*
6. Based on this calculation, Panel RP-MB is undersized. The overcurrent protection for a panelboard shall be permitted to be on the primary of a transformer supplying the panelboard, provided that the panelboard rating in amperes is not less than the overcurrent rating of the primary device in amperes multiplied by the ratio of the primary to the secondary voltage. Rule 14-606 2)
7. The grounded conductor of a solidly grounded separately derived ac system shall be connected to the equipment bonding terminal by a system bonding jumper, sized per Table 16, at the source, at the first switch controlling the system, or by the system bonding jumper that is connected to the bonding conductor included in the primary supply. Rule 10-212, Rule 10-616
8. Conductor information from Panel RP-UEV to the two 6.6kW EVSE chargers was not provided. The rating or setting of overcurrent devices shall not exceed the allowable ampacity of the conductors that they protect. Rule 14-104
9. The conductors on the secondary side of the three 75kVA transformers, TX-MB, TX-RA and TX-UEV were not provided. The secondary conductors connected to transformers shall have an ampacity rating not less than 125% of the rated secondary current of the transformer. Rule 26-256 2)
10. Where exposed to the weather, receptacles of configurations 5-15R, 5-20R, 5-20RA, 6-15R, 6-20R and 6-20RA shall be provided with cover plates suitable for wet locations whether or not a plug is inserted into the receptacle, and marked #Extra Duty#. Rule 26-708 2)
11. Permanent, legible signs shall be installed at the point of connection of the

electric vehicle supply equipment to the branch circuit wiring, warning against operation of the equipment without sufficient ventilation as recommended by the manufacturer's installation instructions. Rule 86-200

12. A separate disconnecting means shall be provided for electric vehicle supply equipment rated at more than 60 A, or more than 150 volts-to-ground. Rule 86-304 1)

13. The disconnecting means for electric vehicle supply equipment (EVSE) rated at more than 60 A or more than 150 volts-to-ground, shall be on the supply side of the point of connection of the EVSE, and capable of being locked in the open position. Rule 86-304

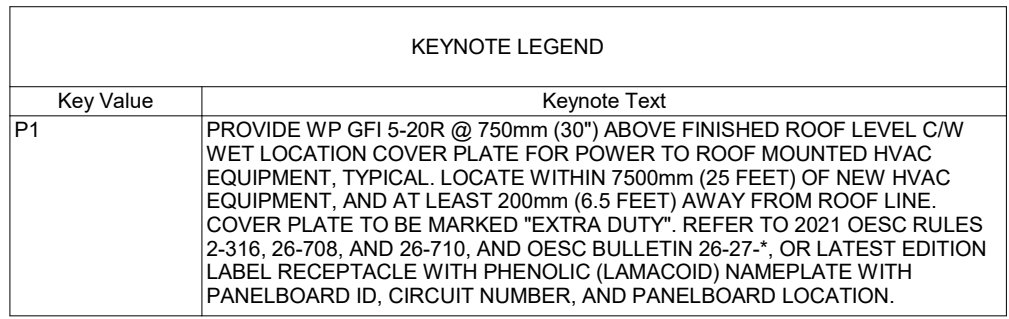
14. The total connected load of a branch circuit supplying electric vehicle supply equipment and the ventilation equipment permitted by Rule 86-300 shall be considered continuous for the purposes of Rule 8-104. Rule 86-302

15. Electric vehicle supply equipment shall be mechanically protected from damage either by location or other means. Rule 2-200

An invoice will be sent directly to your Accounts Payable Department. If we may be of any assistance regarding any aspect of this installation, particularly with respect to clarification of the above comments and regulations, please contact the Plan Review Department or the Inspector listed above.

Pour obtenir une version française du rapport, veuillez appeler 1-877-372-7233.

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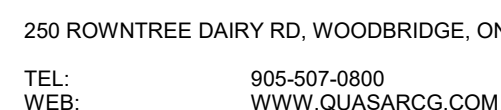


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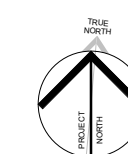
SEALS

9	ISSUED FOR ADDENDUM E-ADD-02	2024-06-24
8	ISSUED FOR TENDER	2024-05-01
7	ISSUED FOR TENDER	2024-05-01
6	ISSUED FOR TENDER REVIEW	2024-03-08
5	ISSUED FOR PERMIT	2024-01-24
4	ISSUED FOR 99% CD	2024-01-19
3	ALECTRA COORDINATION	2023-12-18
2	ISSUED FOR DESIGN DEVELOPMENT	2023-10-06
1	ALECTRA SERVICE REQUEST	2023-08-01

NO	ISSUES/REVISIONS	DATE
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DRAWING TITLE:

ROOF POWER AND SYSTEMS PLAN



ISSUE DATE: 2024-06-2

DRAWN BY: MS CHECKED BY: CE

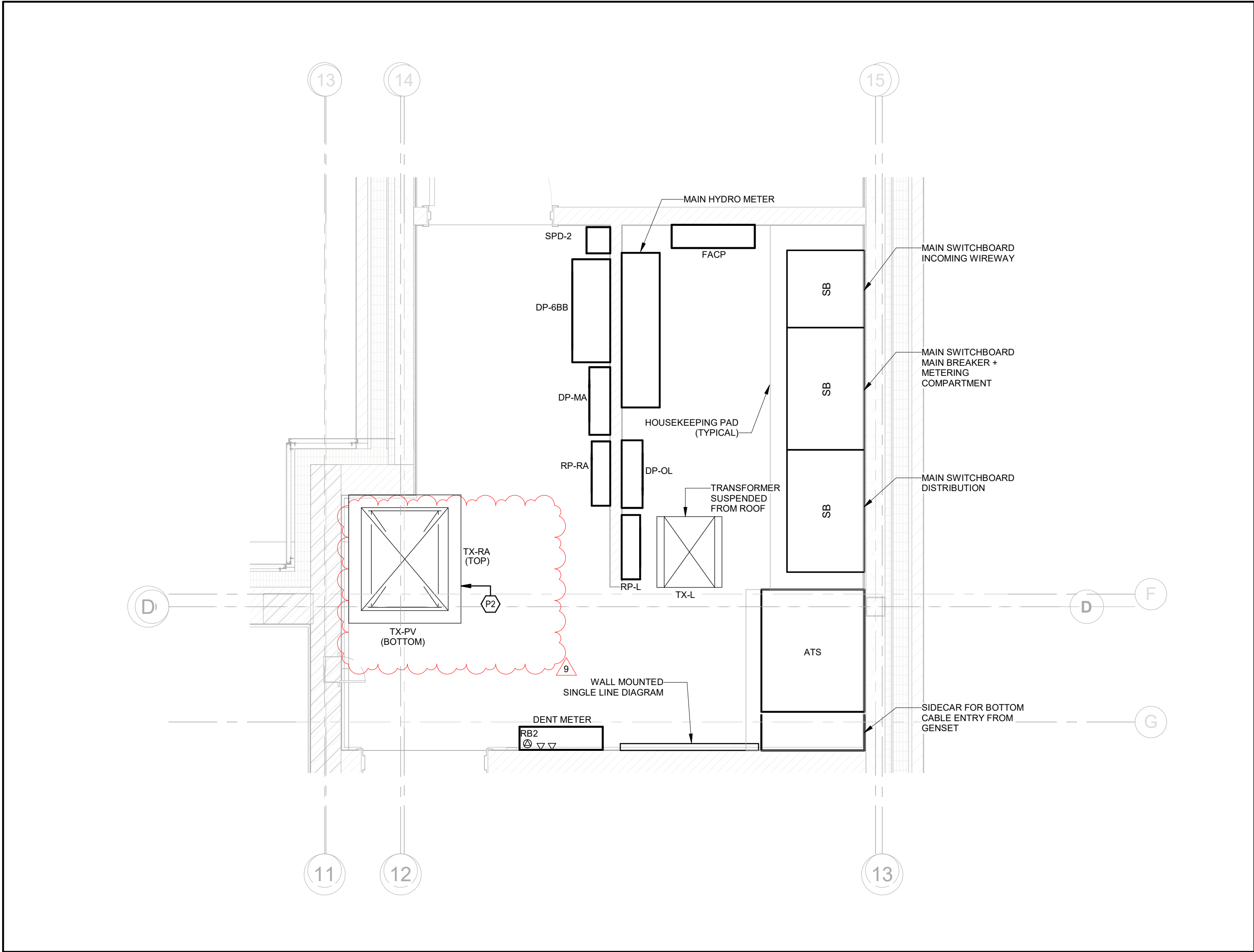
PROJECT NO.: CM-22-281 SCALE: 1 : 75

DRAWING NO.:	REVISION:
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100

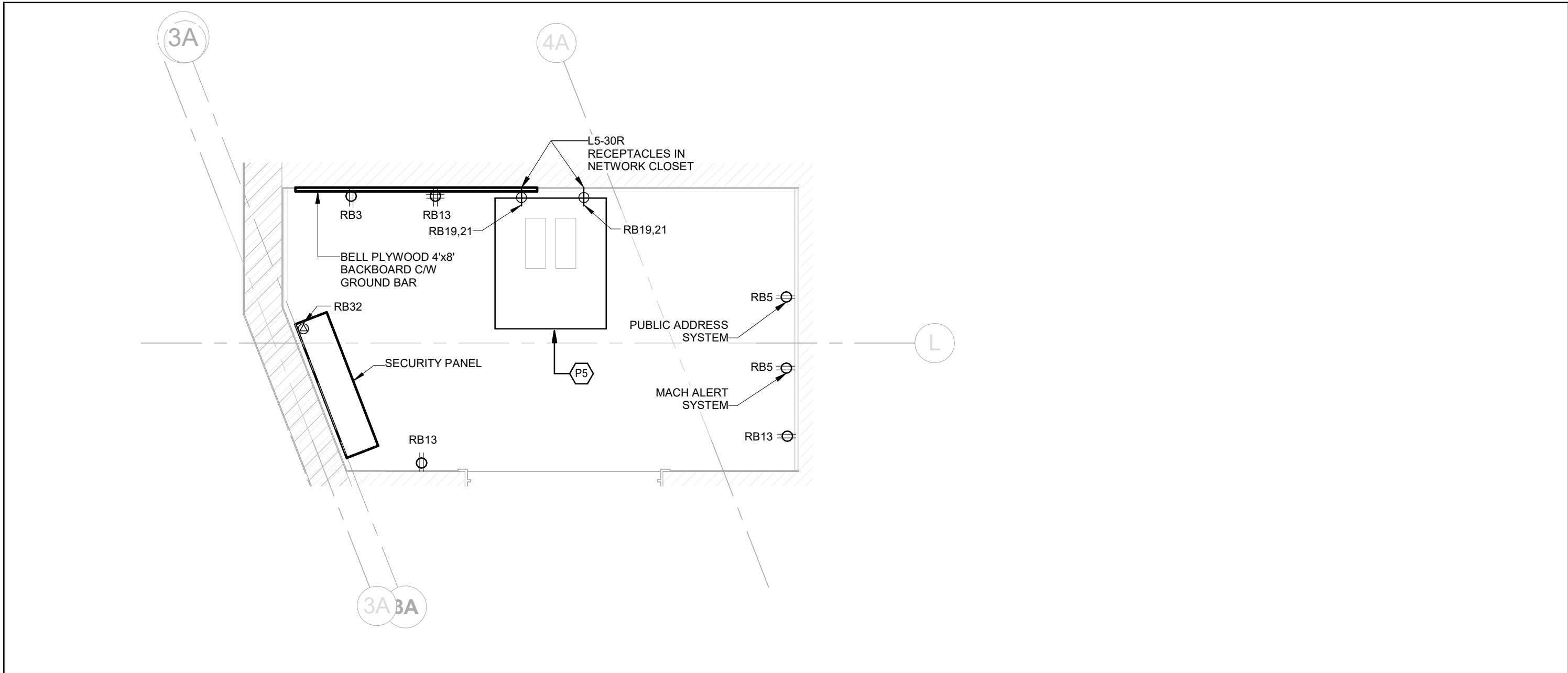
E-102	9
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KEYNOTE LEGEND	
Key Value	Keynote Text
P2	TWO TRANSFORMERS STACKED ONE ON TOP OF THE OTHER. COMPLETE WITH ENGINEERED STRUCT CHANNEL SUPPORT. CONTRACTOR TO HIRE STRUCTURAL ENGINEER TO PROVIDE SEALED DETAIL DURING SUBMITTAL REVIEW PHASE.
P6	PROVIDE COMMUNICATION RACK CONSISTING OF 2-POST RACK WITH VERTICAL CABLE MANAGEMENT, VERTICAL POWER BAR AND 1.5 KVA UPS C/W EBM AS DESCRIBED IN SECTION 27.10.00.



1 ENLARGED VIEW OF ELECTRICAL ROOM

SCALE: 1 : 25



2 ENLARGED VIEW OF I.T ROOM

SCALE: 1 : 20



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SEALS

NO.	ISSUES/REVISIONS	DATE
9	ISSUED FOR ADDENDUM E-ADD-02	2024-06-24
8	ISSUED FOR TENDER	2024-05-01
7	ISSUED FOR TENDER	2024-05-01
6	ISSUED FOR TENDER REVIEW	2024-03-08
5	ISSUED FOR PERMIT	2024-01-24
4	ISSUED FOR 99% CD	2024-01-19
3	ELECTRA COORDINATION	2023-12-18
2	ISSUED FOR DESIGN DEVELOPMENT	2023-10-06
1	ELECTRA SERVICE REQUEST	2023-08-11

DRAWING TITLE:

LARGE SCALE ELECTRICAL PLANS

ISSUE DATE: 2024-06-24

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: As Indicated

DRAWING NO.: REVISION:

E-401 9

