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Legend

Notes

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Revision	By	Appd.	YY.MM.DD	
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A	ISSUED FOR CONSTRUCTION	HPCC	LK	2025.01.09
Issued		By	Appd.	YY.MM.DD
File Name:	e-101	Dwnl.	Chkd.	Dsgn.
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Permit/Seal

**ENGINEERS
 GEOSCIENTISTS
 MANITOBA**
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301



Client/Project

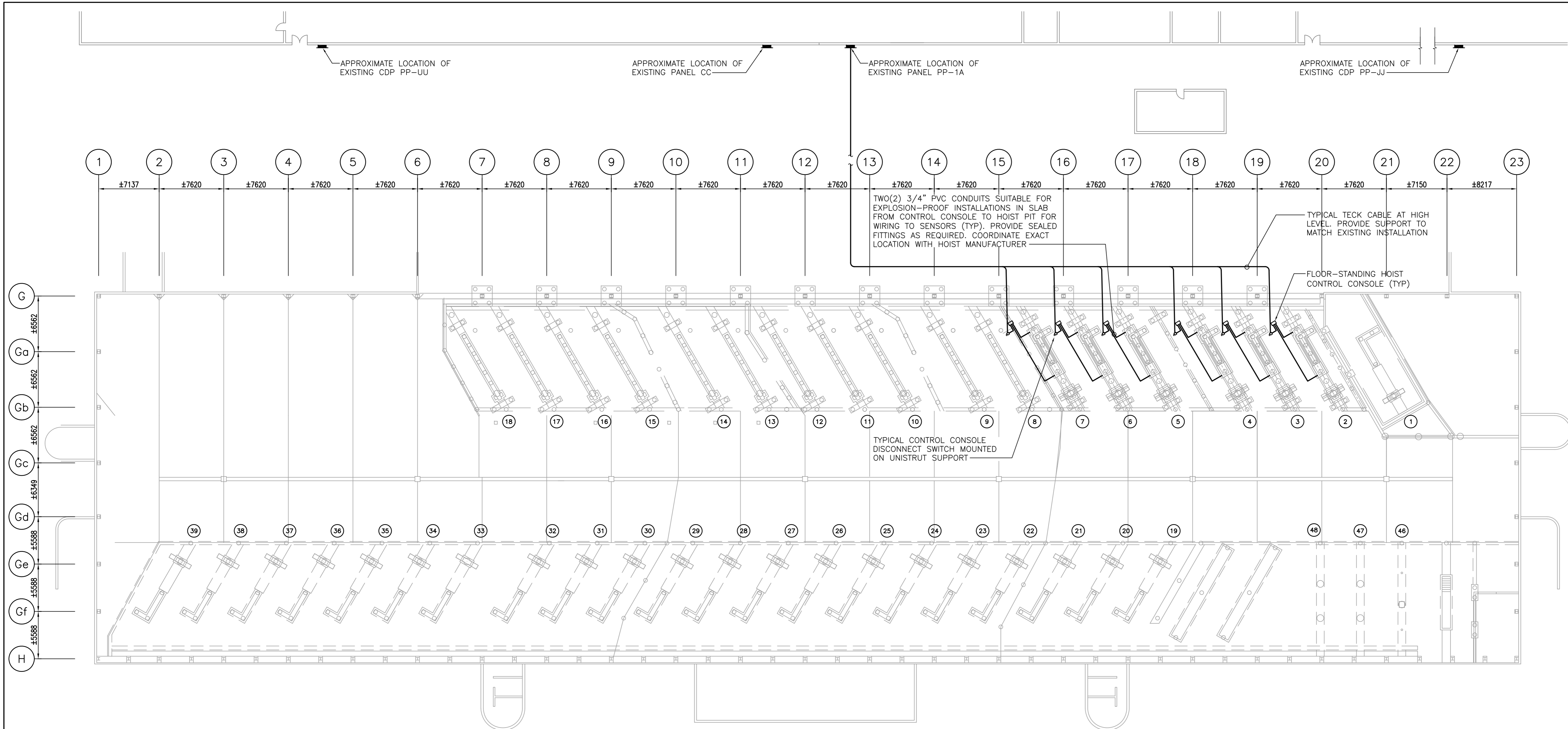
WINNIPEG TRANSIT
 GARAGE BUILDING

HOIST REPLACEMENT PROGRAM
 PHASE 3 - HOISTS 2 - 7
 421 Osborne Street, Winnipeg Manitoba

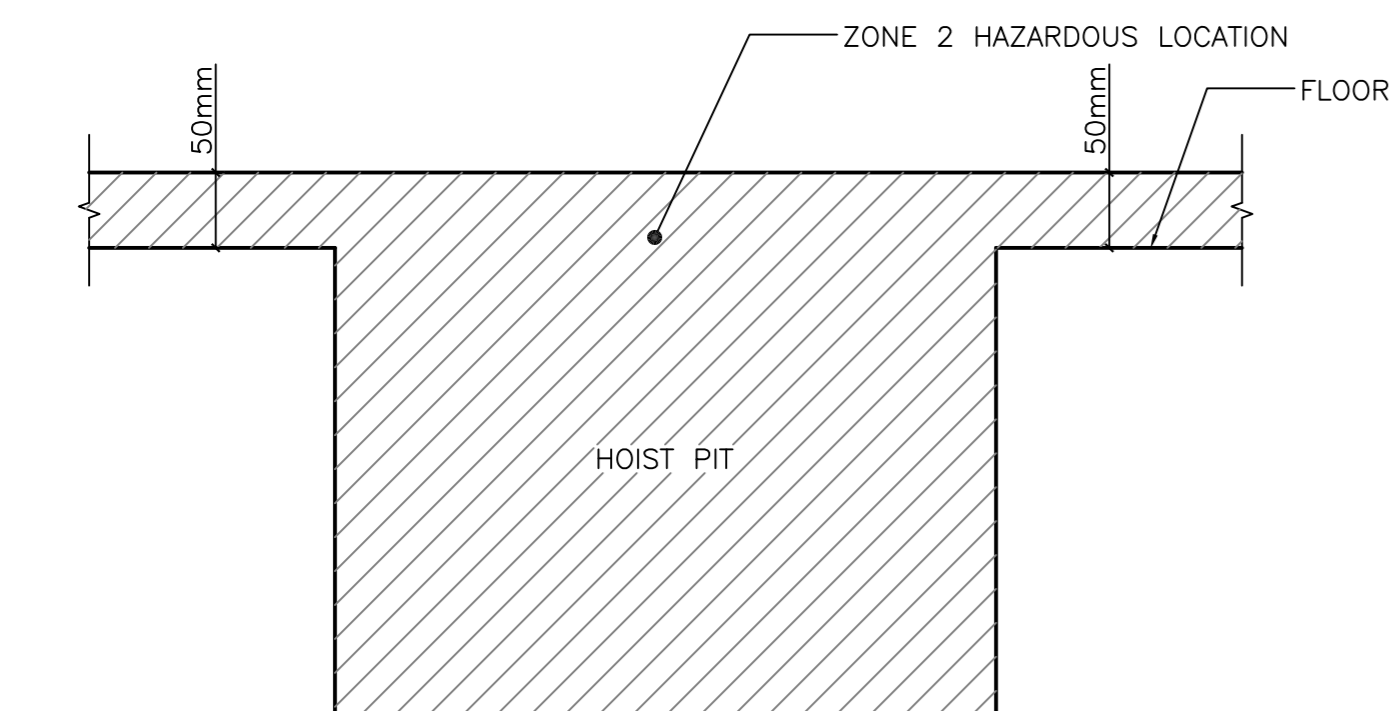
Title

MAIN FLOOR
 NEW ELECTRICAL EQUIPMENT LAYOUT

Project No.	Scale
115422050	AS NOTED
Drawing No.	Sheet
	Revision



1 MAIN FLOOR PLAN – NEW ELECTRICAL LAYOUT
 E-101 1:250



2 HOIST PIT – HAZARDOUS AREA CLASSIFICATION
 E-101 N.T.S.

ELECTRICAL SPECIFICATION:

- PROVIDE ALL LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY (INCLUDING ALL SUCH REASONABLY IMPLIED OR INCIDENTAL), TO COMPLETE THE ELECTRICAL INSTALLATION AS INDICATED ON THE ELECTRICAL DRAWINGS. THE COMPLETE SYSTEM IS TO BE APPROVED, INSTALLED AND OPERATIONAL TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- THE WORK IS TO INCLUDE (BUT NOT NECESSARILY BE LIMITED TO) THE FOLLOWING:
 - PROVIDE A POWER DISTRIBUTION SYSTEM AS INDICATED ON THE DRAWINGS.
 - WIRE AND CONNECT ALL OWNER'S AND MECHANICAL EQUIPMENT SUPPLIED BY OTHERS. PROVIDE ALL MOTOR CONTROLS AS REQUIRED.
 - PROVIDE EQUIPMENT AND MATERIAL AS SPECIFIED.
 - PROVIDE ALL REQUIRED GROUNDING AND BONDING.

STANDARDS AND REGULATIONS:

- THE ENTIRE ELECTRICAL INSTALLATION IS TO BE IN ACCORDANCE WITH ALL CURRENT CODES, RULES AND REGULATIONS, INCLUDING (BUT NOT LIMITED TO) THE CURRENT EDITIONS OF THE CANADIAN ELECTRICAL CODE AND NATIONAL BUILDING CODE, WITH ALL APPLICABLE PROVINCIAL AND MUNICIPAL AMENDMENTS.
- INSTALL ALL EQUIPMENT AND DEVICES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SUBMISSIONS:

- ALL REQUIRED PERMITS AND THEIR APPLICATIONS ARE TO BE PROVIDED TO THE PROPER AUTHORITIES. PAY ALL ASSOCIATED FEES.
- REQUESTS FOR EQUALS ARE TO BE SUBMITTED TO THE CONTRACT ADMINISTRATOR NO LATER THAN SEVEN(7) WORKING DAYS PRIOR TO SUBMISSION OF TENDER.
- SHOP DRAWINGS ARE TO BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO ORDERING EQUIPMENT OR MATERIALS, AND NO EQUIPMENT OR MATERIALS ARE TO BE ORDERED WITHOUT THE CONTRACT ADMINISTRATOR'S REVIEW.
- A CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION FOR THE COMPLETE ELECTRICAL INSTALLATION IS TO BE SUBMITTED TO THE CONTRACT ADMINISTRATOR AFTER ALL WORK IS COMPLETE.
- ONE(1) HARD COPY SET OF CORRECTED 'AS-BUILT' DRAWINGS IS TO BE SUBMITTED TO THE CITY AT CLOSE OF PROJECT.
- PROVIDE ALL PRODUCT AND INSTALLATION INFORMATION COMPILED INTO AN OPERATION AND MAINTENANCE MANUAL FOR ALL DEVICES AND EQUIPMENT INSTALLED. PROVIDE ALL TESTING AND START UP DOCUMENTATION AND COPIES OF ALL PERMITS AND WARRANTY INFORMATION AS PART OF THE MANUAL. EACH SECTION TO INCLUDE MAINTENANCE INFORMATION FROM THE MANUFACTURER OR WRITTEN INSTRUCTIONS FROM THE CONTRACTOR FOR ALL SUPPLIED ITEMS/SYSTEMS.
- A GUARANTEE THAT ALL NEWLY INSTALLED OR MODIFIED ELECTRICAL IS TO OPERATE SATISFACTORILY FOR A PERIOD OF TWELVE(12) MONTHS AFTER FINAL ACCEPTANCE OF ALL BUILDING WORK.

REVISIONS:

- THE ELECTRICAL CONTRACTOR IS TO VISIT SITE TO CONFIRM THAT ALL ELECTRICAL WORK INDICATED CAN BE COMPLETED WITHOUT ANY ADDITIONAL COST TO THE CITY.

- THE ELECTRICAL CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS (INCLUDING RELATED ELECTRICAL, MECHANICAL AND ARCHITECTURAL) TO CONFIRM THAT THE WORK REPRESENTED THEREIN CAN BE COMPLETED. ANY DEFECT, DISCREPANCY, OMISSION OR INTERFERENCE THAT IS DISCOVERED TO AFFECT THE SATISFACTORY COMPLETION OF THE WORK OR ITS WARRANTY IS TO BE REPORTED IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.
- THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR ANY DAMAGE DONE BY PERFORMING THIS WORK IMPROPERLY.
- THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH OTHER TRADES TO OBTAIN SHOP DRAWINGS FOR ALL MECHANICAL AND OTHER EQUIPMENT, AND TO PROVIDE CIRCUIT BREAKERS AND WIRING IN ACCORDANCE WITH THESE SHOP DRAWINGS.
- THE ELECTRICAL CONTRACTOR IS TO RELOCATE OUTLETS AT NO ADDITIONAL COST IF REQUESTED PRIOR TO ROUGH-IN.
- THE ELECTRICAL CONTRACTOR IS TO TEST ALL SUPPLIED, INSTALLED, CONNECTED, OR MODIFIED ELECTRICAL IN THE PRESENCE OF THE OWNER UPON COMPLETION OF WORK. PROVIDE EQUIPMENT AND WIRING TEST DOCUMENTATION TO THE ENGINEER PRIOR TO ENERGIZING OF ANY EQUIPMENT.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY CUTTING AND PATCHING REQUIRED TO ACCOMMODATE THE ADDITION OR RELOCATION OF ELECTRICAL.

MATERIALS AND EQUIPMENT:

- PROVIDE IDENTIFICATION OF ALL PROVIDED ELECTRICAL EQUIPMENT, INCLUDING PANELBOARDS, DISCONNECT SWITCHES, SPLITTERS, MOTOR STARTERS, ETC.. IDENTIFICATION IS TO BE PROVIDED BY MEANS OF ENGRAVED LAMACOID LABELS FASTENED SECURELY TO THE EQUIPMENT USING STAINLESS STEEL RIVETS.
- REFER TO MECHANICAL FOR EXACT LOCATION AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. PROVIDE ALL DISCONNECT SWITCHES, MANUAL MOTOR STARTERS, MAGNETIC MOTOR STARTERS (UNLESS PACKAGED WITH EQUIPMENT; REFER TO MECHANICAL), PUSHBUTTON STATIONS, HAND/OFF/AUTO SELECTOR SWITCHES, INTERLOCK CONTACTS REQUIRED FOR STARTERS, STARTER HEATER ELEMENTS REQUIRED FOR STARTER CONTACTORS, TIME CLOCKS, TIME SWITCHES, AND PHOTO-ELECTRIC RELAYS AS REQUIRED. PROVIDE PILOT LIGHTS FOR ALL STARTERS, PUSHBUTTON STATIONS AND SWITCHES. FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT IS TO BE FLEXIBLE USING LIQUID TIGHT CONNECTIONS.
- CONDUITS ARE TO BE ELECTRIC METALLIC TUBING (EMT) UNLESS OTHERWISE INDICATED OR PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. CONCEAL ALL CONDUITS UNLESS OTHERWISE INDICATED. CONDUITS ARE UNDER NO CIRCUMSTANCE TO BE INSTALLED EXPOSED IN AREAS REQUIRING CONCEALMENT WITHOUT FIRST RECEIVING WRITTEN APPROVAL. MINIMUM CONDUIT SIZE: 21mm (3/4").
- WIRING IS TO BE IN CONDUIT OR TECK CABLE, UNLESS OTHERWISE INDICATED. ALL CONDUIT AND FLEXIBLE CONDUIT TO INCLUDE MIN. #12AWG COPPER BONDING CONDUCTOR IN EACH RUN.
- WIRE AND CABLE ARE TO BE STANDARD AWG COPPER WITH X-LINK POLYETHYLENE INSULATION RATED TO 600V AND 90°C UNLESS OTHERWISE INDICATED OR PROHIBITED. ALUMINUM CONDUCTORS WILL BE ACCEPTED ONLY UPON APPROVAL. CONDUCTOR SIZES INDICATED ARE FOR COPPER, UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE: #12 AWG.

- JUNCTION BOXES, OUTLET BOXES AND SWITCH BOXES ARE TO BE GALVANIZED PRESSED STEEL C/W THREADED HUBS AND FITTINGS, OF SIZE AND TYPE TO SUIT, AND ARE TO REMAIN ACCESSIBLE.

RESPONSIBILITY IN EXISTING BUILDINGS:

- EXAMINE THE SITE TO DETERMINE ALL INFORMATION REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION. NO COMPENSATION WILL BE PROVIDED FOR ADDITIONAL WORK DUE TO FAILURE TO PERFORM THIS EXAMINATION.
- RELOCATE, EXTEND OR REFEED EXISTING WIRING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION OR RENOVATION, TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- THE ELECTRICAL CONTRACTOR MAY REUSE EXISTING CONDUITS, WIRING AND DEVICES THAT ARE CODE CONFORMING AND IN GOOD REPAIR UPON APPROVAL OF THE CONTRACT ADMINISTRATOR AND THE LOCAL INSPECTION DEPARTMENT.
- NOTIFY THE CITY IMMEDIATELY OF ANY EXISTING WIRING THAT IS FOUND TO BE SUBSTANDARD OR DOES NOT OTHERWISE MEET THE PROJECT REQUIREMENTS.
- UPDATE PANEL DIRECTORIES OF ALL PANELBOARDS WITH NEW OR MODIFIED CIRCUITS (TYPEWRITTEN).
- PROVIDE ONE SET OF 3 ADDITIONAL 20AMP TYPE J FUSES AND TURN OVER TO CUSTOMER FOR SPARE PARTS AFTER UNITS HAVE BEEN SUCCESSFULLY COMMISSIONED.

GENERAL NOTES:

- EXAMINE THE SITE TO DETERMINE ALL INFORMATION REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION. NO COMPENSATION WILL BE PROVIDED FOR ADDITIONAL WORK DUE TO FAILURE TO PERFORM THIS EXAMINATION.
- THE ELECTRICAL CONTRACTOR MAY REUSE EXISTING CONDUITS, WIRING AND DEVICES THAT ARE CODE CONFORMING AND IN GOOD REPAIR UPON APPROVAL OF THE CONTRACT ADMINISTRATOR AND THE LOCAL INSPECTION DEPARTMENT.
- NOTIFY THE CITY IMMEDIATELY OF ANY EXISTING WIRING THAT IS FOUND TO BE SUBSTANDARD OR DOES NOT OTHERWISE MEET THE PROJECT REQUIREMENTS.
- UPDATE PANEL DIRECTORIES OF ALL PANELBOARDS WITH NEW OR MODIFIED CIRCUITS (TYPEWRITTEN).
- CONFIRM ELECTRICAL REQUIREMENTS OF THE HOIST SYSTEM AND ALL ASSOCIATED COMPONENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST TO THE CITY.
- X-RAY EXISTING SLAB PRIOR TO ANY TRENCHING OR CORING. DO NOT CUT REINFORCING STEEL.

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