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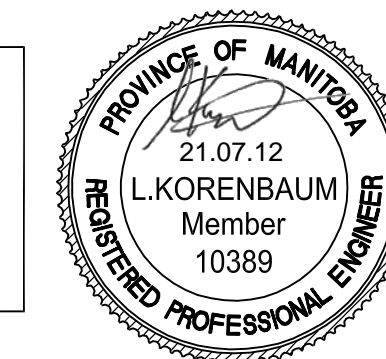
Legend

Notes

Revision	By	Appd.	YY.MM.DD
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4			
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C	HPCC	LK	2021.07.13
B	HPCC	LK	2021.06.23
A	HPCC	LK	2021.01.15
Issued			
File Name:	e-101		21.07.12
	Dwn.	Chkd.	Sign.
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Permit-Seal

**ENGINEERS
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 No. 1301



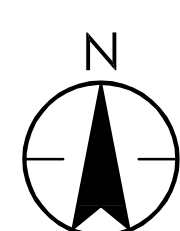
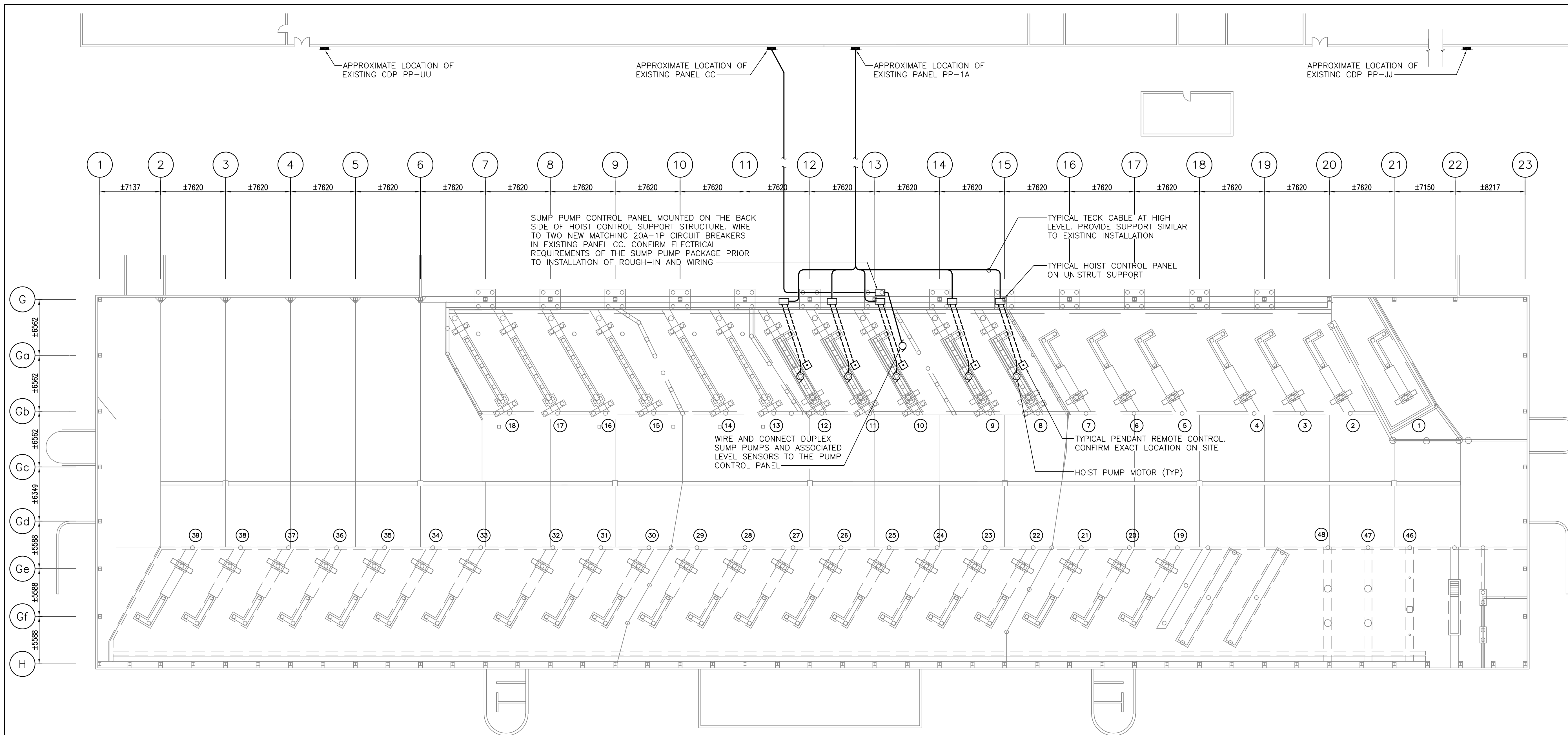
Client/Project

WINNIPEG TRANSIT
 GARAGE BUILDING
 HOIST REPLACEMENT PROGRAM
 PHASE 2 - HOISTS 8 - 12
 421 Osborne Street, Winnipeg Manitoba

Title

MAIN FLOOR
 NEW ELECTRICAL EQUIPMENT LAYOUT

Project No.	Scale	
115420037	AS NOTED	
Drawing No.	Sheet	Revision
439-2021 E-101	of	0



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

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, AND NO EQUIPMENT IS 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.
 - 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.

RESPONSIBILITY:

- 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 MECHANICAL TO OBTAIN SHOP DRAWINGS FOR ALL MECHANICAL 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.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY CUTTING AND PATCHING REQUIRED TO ACCOMMODATE THE ADDITION OR RELOCATION OF ELECTRICAL.

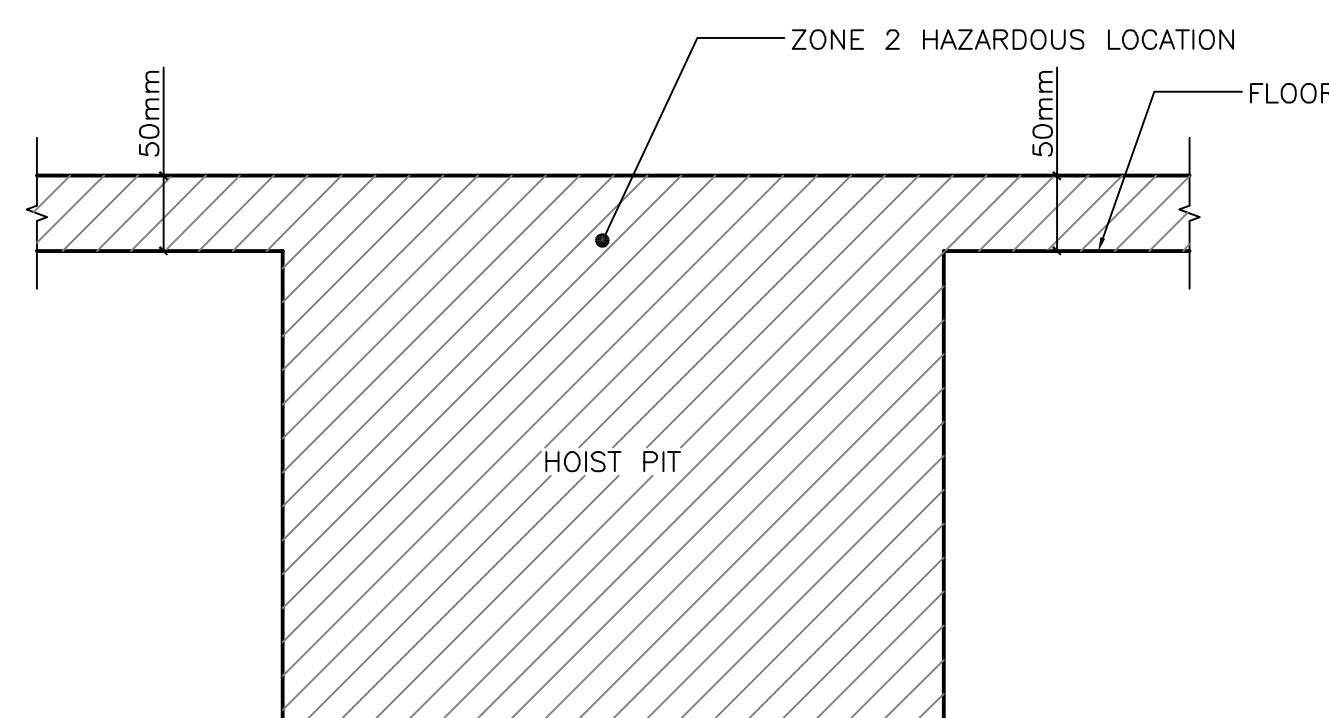
MATERIALS AND EQUIPMENT:

- PROVIDE IDENTIFICATION OF ALL PROVIDED ELECTRICAL EQUIPMENT, INCLUDING PANELBOARDS, DISCONNECT SWITCHES, SPLITTERS, MOTOR STARTERS, ETC.. IDENTIFICATION IS TO BE PROVIDED BY MEANS OF ENGRAVED LAMACOD LABELS FASTENED SECURELY TO THE EQUIPMENT.
 - 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.
 - 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.
 - 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, 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).

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.



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