



**APCA**  
Certificate of Authorization  
MCW/AGE Consulting Professional Engineers  
No. 589 Expiry: April 30, 2017

**DO NOT SCALE DRAWINGS**

Revision/	Description/Description	Date/Date
0	ISSUED FOR CONSTRUCTION	2016/11/02

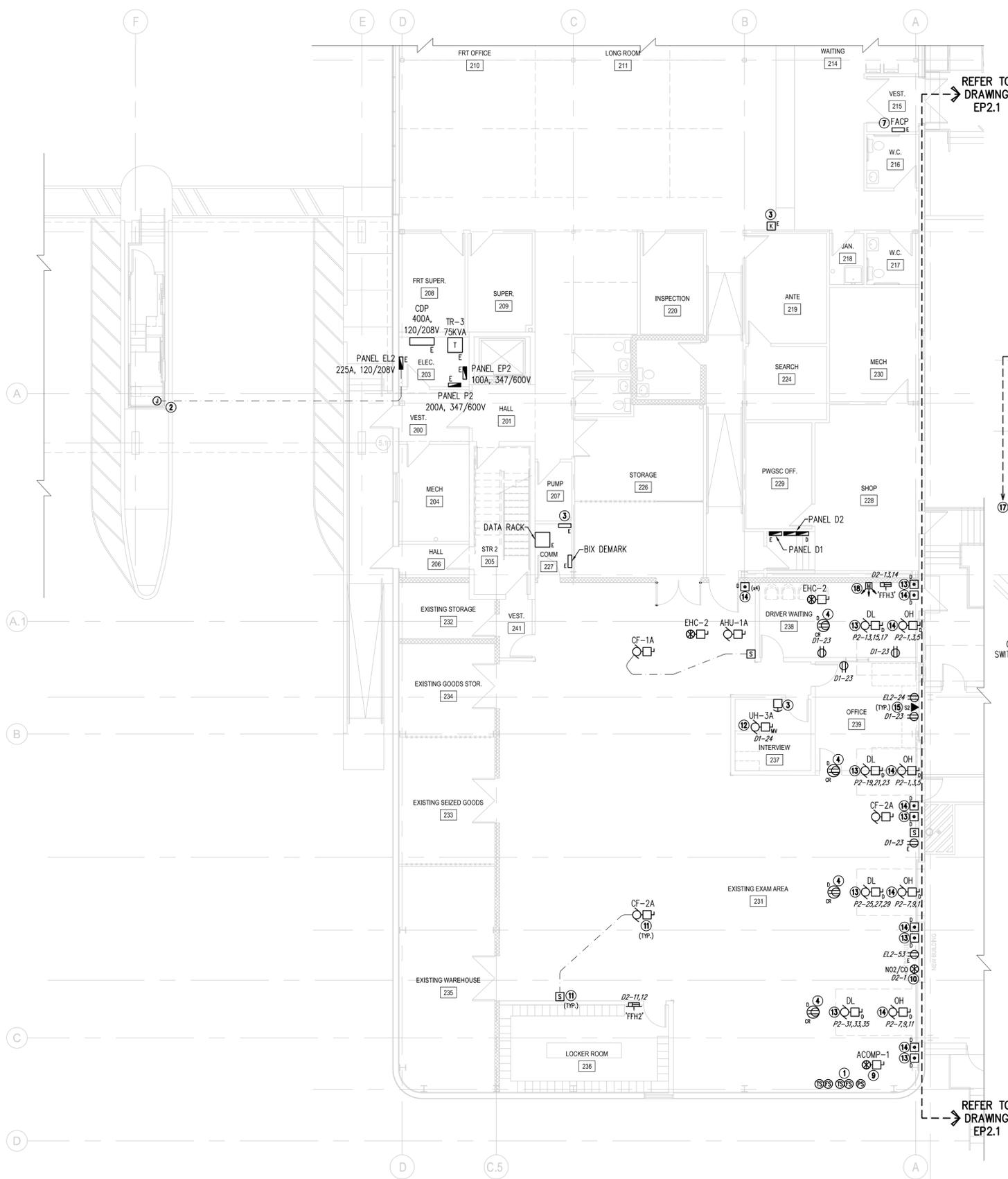
Client/client  
**PUBLIC WORKS AND GOVERNMENT SERVICES AGENCY**

Project title/Titre du projet  
**EMERSON, MANITOBA HIGHWAY 75, UNITED STATES BORDER**  
**EXPANSION AND REDEVELOPMENT OF THE EMERSON PORT OF ENTRY**

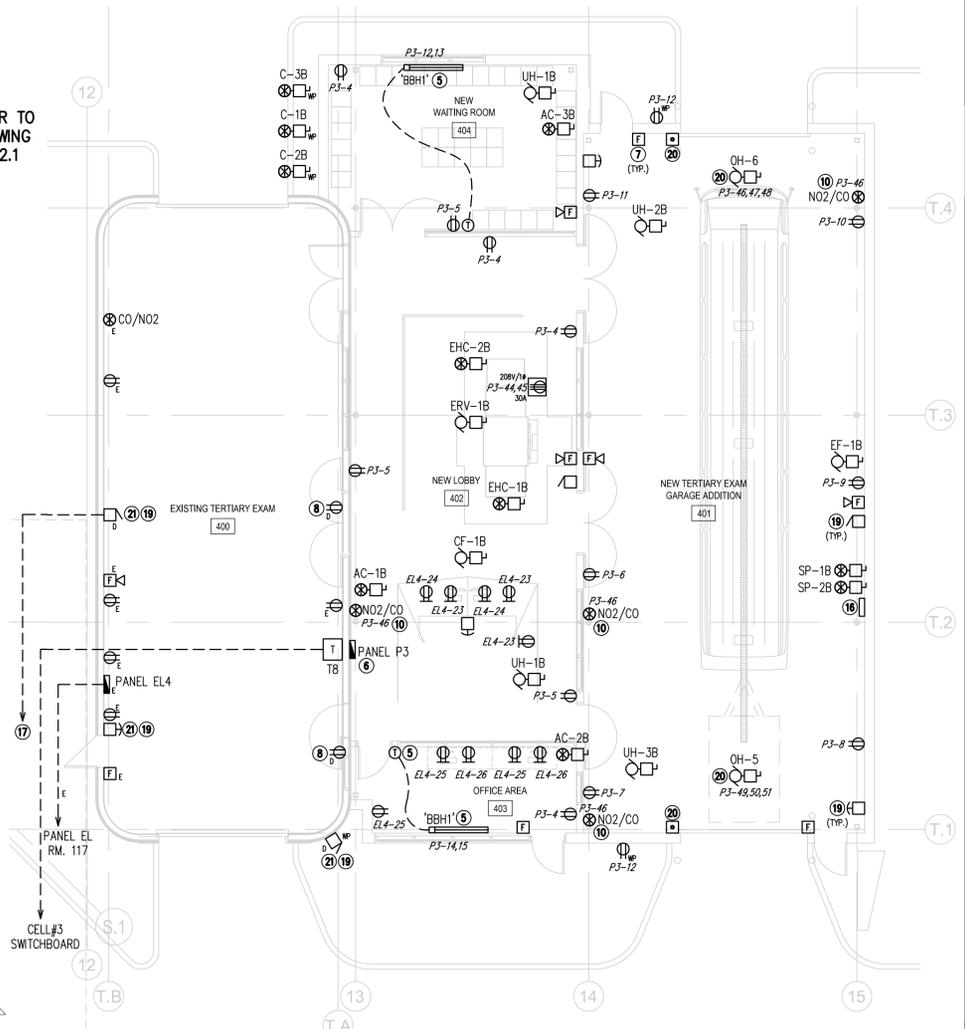
Approved by/Approve par  
**KEI**  
Designed by/Concept par  
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Drawn by/Dessine par  
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Ressources Architectural et de Directeur d'ingénierie, TPSCC

Drawing title/Titre du dessin  
**EXISTING WAREHOUSE & NEW TERTIARY GARAGE ADDITION - POWER & SYSTEMS LAYOUT**

Project No./No. du projet <b>R.068431.001</b>	Sheet/Feuille <b>EP2.2</b> of 26	Revision no./La Révision no. <b>0</b>
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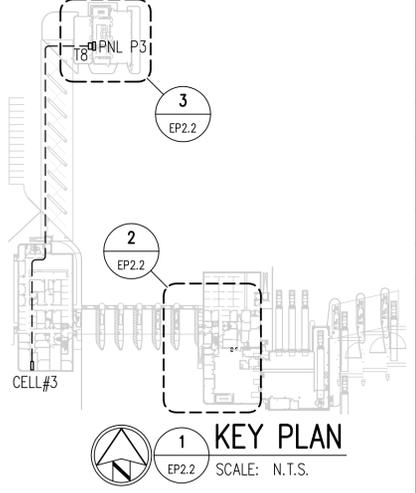


**2 EXISTING WAREHOUSE – POWER LAYOUT**  
EP2.2 SCALE: 1:100



**3 TERTIARY GARAGE BUILDING – POWER LAYOUT**  
EP2.2 SCALE: 1:100

- NOTES:
- WIRE AND CONNECT MECHANICALLY SUPPLIED PRESSURE & FLOW SWITCHES & TAMPER VALVES TO EXISTING FIRE ALARM SYSTEM. COORDINATE QUANTITY & LOCATIONS WITH PROVIDER.
  - PROVIDE ADDITIONAL CIRCUITS FROM PANEL EL2 AS REQUIRED. CONDUIT SHALL BE BURIED FROM ELECTRICAL ROOM TO PIL 406.
  - WIRE AND CONNECT NEW INTERVIEW ROOM 237 LATCHING PUSHBUTTON TO EXISTING SECURITY CONTROL PANEL. INSTALL IN CONDUIT C/W 4-22 AWG WIRE. KEY PAD MUST SOUND UPON INITIATION OF LATCHING PUSHBUTTON. DURESS PUSHBUTTON SHALL BE FEDERAL SIGNAL MODEL# PSEM-R.
  - DISCONNECT & REMOVE EXISTING CORD REEL MAINTAIN & EXTEND EXISTING CIRCUIT.
  - PROVIDE BASEBOARD HEATER C/W REMOTE LINE VOLTAGE THERMOSTAT.
  - PROVIDE NEW 225A, 120/208V, 3Ø 42 CIRCUIT PANEL CONNECTED TO CELL#3 IN ELECTRICAL ROOM 117.
  - WIRE & CONNECT NEW SYSTEM MATCHING FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM.
  - DISCONNECT & REMOVE OUTLET C/W ASSOCIATED WIRING TO ACCESSIBLE JUNCTION BOX.
  - WIRE & CONNECT MECHANICALLY SUPPLIED COMPRESSOR.
  - WIRE AND CONNECT NO<sup>2</sup>/CO PANEL & REMOTE SENSORS AS SUPPLIED BY MECHANICAL.
  - WIRE AND CONNECT CEILING FAN AS SUPPLIED BY MECHANICAL C/W 24V SPEED CONTROLLER IN CONDUIT. COORDINATE WITH MECHANICAL.
  - DISCONNECT EXISTING UNIT HEATER FOR RELOCATION BY MECHANICAL. EXTEND WIRING TO NEW LOCATION AND RE-CONNECT. COORDINATE WITH MECHANICAL.
  - DISCONNECT & REMOVE EXISTING DOCK LEVELLER WIRING & CONTROL. TURN OVER EQUIPMENT TO OWNER & MAINTAIN CIRCUIT FOR EXTENSION TO NEW DOCK LEVELLER.
  - DISCONNECT & REMOVE EXISTING OVERHEAD DOOR WIRING & CONTROL. TURN OVER EQUIPMENT TO OWNER & MAINTAIN CIRCUIT FOR EXTENSION TO NEW OVERHEAD DOOR.
  - WIRE & CONNECT DATA OUTLET TO COMM. 227 AND TERMINATE ON EXISTING DATA RACK. COORDINATE WITH OWNERS IT REPRESENTATIVE.
  - WIRE & CONNECT SUMP PUMP CONTROL PANEL AS SUPPLIED BY MECHANICAL.
  - PROVIDE CEILING MOUNT DURESS BUZZER/STROBE IN WAITING AREA ROOM 147. COORDINATE LOCATION WITH OWNER. REFER TO DRAWING EC2.2.
  - PROVIDE SYSTEM MATCHING MOTION DETECTOR CONNECTED TO EXISTING SECURITY SYSTEM IN ROOM 227. COORDINATE WITH OWNERS SECURITY REPRESENTATIVE.
  - PROVIDE NEW 120V DURESS SYSTEM C/W DURESS PUSHBUTTON BY FEDERAL SIGNAL MODEL# PSEM-R & DURESS BUZZER/STROBE BY FEDERAL SIGNAL MODEL# 400ST. BLUE DOME, HORN# 350, MOUNTING KIT 400 HMK-AC.
  - WIRE & CONNECT OVERHEAD DOOR AS SUPPLIED BY OTHERS.
  - DELETE EXISTING DURESS PUSHBUTTON & DURESS BUZZER/STROBE.



**1 KEY PLAN**  
EP2.2 SCALE: N.T.S.