

Revision	By	Appd.	Y/M/YY
1	ISSUED FOR ADDENDUM #4	CB AA	23.12.21
0	ISSUED FOR CONSTRUCTION	CB AA	23.09.18
File Name:	115423001_e_e-202m	CB AA CB	22.05.27
	Dwn. Chkd. Dgn.		Y/M/YY

ORIGINAL  
 DRAWING  
 SEALED BY  
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 2023-09-20



Client/Project  
 WINNIPEG TRANSIT DIRECT CURRENT FAST  
 CHARGING BUS STATIONS BRANDON GARAGE

600 Brandon Ave. Winnipeg, Manitoba

Title  
 PARTIAL MAIN FLOOR PLAN -  
 ELECTRICAL - NEW CONSTRUCTION

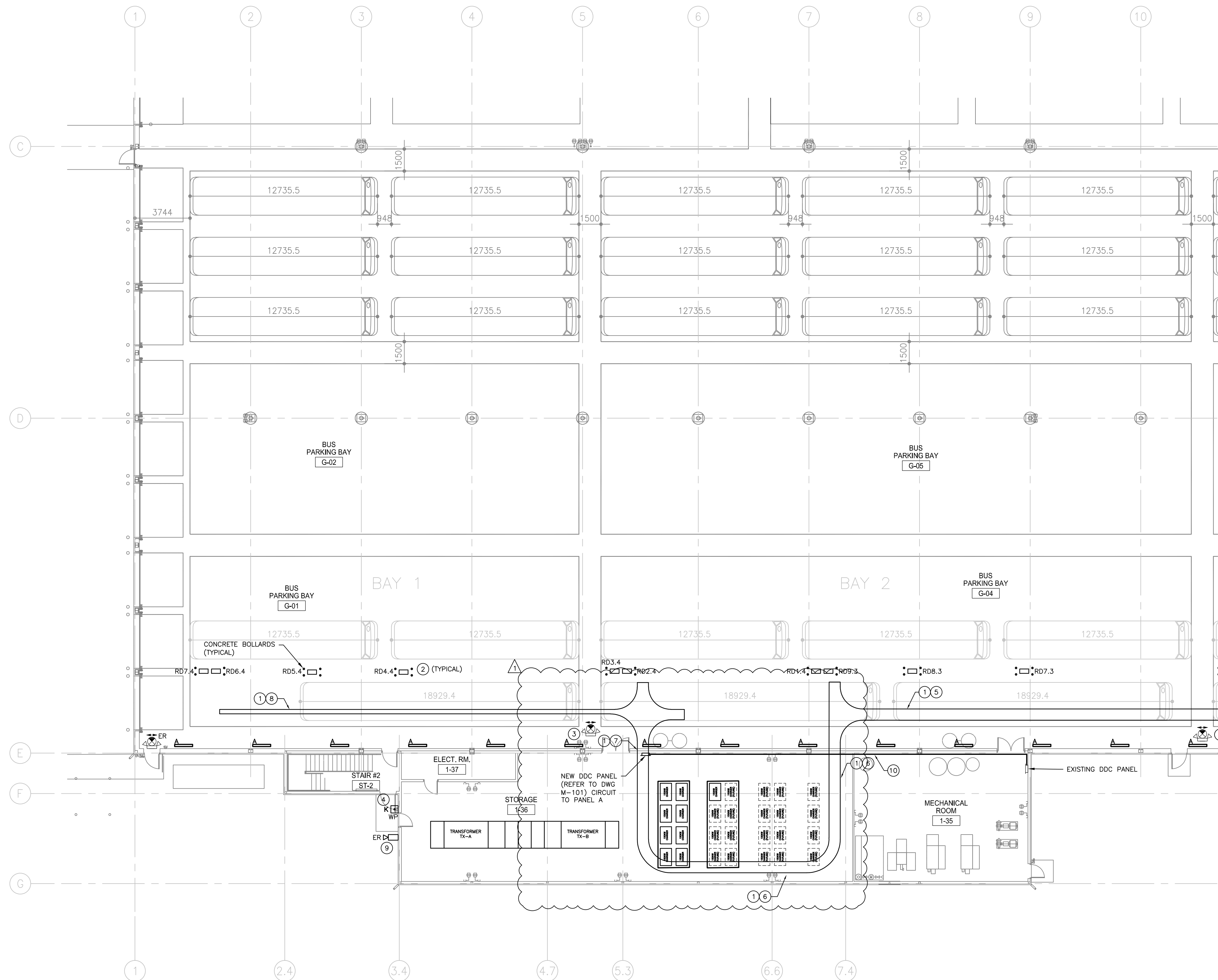
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Drawing No.	Sheet	Revision
E-202	5 of 12	1

GENERAL NOTES:

- EXACT LOCATION OF CHARGING DISPENSERS TO BE COORDINATED AND CONFIRMED ON SITE WITH THE OWNER PRIOR TO INSTALLATION. CENTER EACH DISPENSER INSTALLATION, INCLUDING MOUNTING SUPPORTS, BETWEEN DRIVING AISLES. MARK OUT DRIVING AISLES, LOCATION OF THE DISPENSERS, DISPENSER SUPPORTS AND BOLLARDS ON THE FLOOR OF TRANSIT GARAGE FOR OWNER'S REVIEW PRIOR TO COMMENCING THE ROUGH-INS.
- CABLE TRAY SIZES SHOWN ON THE DRAWING REPRESENT MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL VERIFY CABLE TRAY FILL AND ADJUST CABLE TRAY SIZE, AS WELL AS FREQUENCY OF THE SUPPORTS AS NEEDED TO ACCOMMODATE THE FINAL CABLE COUNTS AND CABLE TRAY LOAD. CABLE TRAY CAPACITY WITHIN ROOM 1-36 AND AT THE CONNECTION TO THE TRAY IN TRACKS AREA SHALL BE SIZED TO ACCOMMODATE 320% ADDITIONAL CABLE LOAD ASSOCIATED WITH PHASE 2.
- CONTRACTOR MAY USE EMT CONDUIT IN LIEU OF CABLE TRAY. IF CONDUITS ARE USED IN LIEU OF CABLE TRAY, CONTRACTOR TO SUBMIT A DRAWING INDICATING HOW THE 320% SPARE CAPACITY OUTLINED IN GENERAL NOTE 2 IS MET USING FUTURE CONDUIT INSTALLATION.
- CONTRACTOR TO PROVIDE EMT CONDUIT RACEWAY FROM THE CABLE TRAY TO THE DISPENSER, BASED ON DISPENSER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONDUIT SIZE SHALL BE BASED ON THE DISPENSER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL SURVEY EXISTING LIGHTING ON SITE PRIOR TO SUBMITTING THE BID, AND ENSURE THAT CABLE TRAY DOES NOT IMPACT THE EXISTING LIGHTING LAYOUT OR ANY OTHER DEVICES. WHERE REQUIRED, PROVIDE JOG IN CABLE TRAY TO ACCOUNT FOR EXISTING MECHANICAL PIPING.
- PROVIDE SEPARATE PRICE TO SUPPLY AND INSTALL TYPE A LINEAR INDUSTRIAL FIXTURES COMPLETE WITH ANGLE MOUNTING BRACKETS. STANDARD OF ACCEPTANCE: LITHONIA ZL1N-L48-SMR-3000LM-FST-347-40K-BOCRI-WH. WALL MOUNT FIXTURES AT 3000mm AFF. WIRE AND CONNECT FIXTURES TO THE NEAREST AVAILABLE 347V LIGHTING CIRCUIT IN THE TRACKS AREA.
- RACEWAYS INSTALLED FOR COMMUNICATION CABLES (FIBRE OR COPPER) SHALL CONFORM TO THE REQUIREMENTS OF TIA-569. WHERE THE USE OF LB JOINTS ARE REQUIRED ON COMMUNICATION RACEWAYS, THE LB JOINTS SHALL BE TIA-568 LISTED.
- CONTRACTOR TO ENSURE A MINIMUM OF 500mm CLEARANCE BETWEEN THE HIGHEST POINT OF THE HIGHEST TRANSIT BUS AND THE NEW RACEWAYS. CONFIRM MAXIMUM BUS HEIGHT WITH OWNER PRIOR TO COMMENCING THE ROUGH-INS.

KEY NOTES:

- PROVIDE AND INSTALL NEW 12C RATED LADDER TYPE CABLE TRAY C/W #1/0 AWG GREEN BONDING CONDUCTOR TYPE TC BONDING TO BE COMPLETED PER SPECIFICATIONS AND CEC. TRAY TO BE SUPPORTED FROM ROOF STRUCTURE. REFER TO DETAIL 3 ON DRAWING E-304 FOR TYPICAL TRAY SUPPORT.
- PROVIDE AND INSTALL CHARGING DISPENSERS AT LOCATIONS SHOWN. DISPENSERS TO BE MOUNTED ON STRUT CHANNEL. DISPENSER TO BE MOUNTED AT 1200MM AFF. STRUT CHANNEL TO BE SUPPORTED FROM CEILING STRUCTURE AND FLOOR. STRUT CHANNEL SUPPORTS SHALL ACCOMMODATE UP TO 50mm OF ROOF MOVEMENT VIA SLIP JOINT AT THE BASE OF THE SUPPORT. DISPENSERS AND ALL ASSOCIATED INFRASTRUCTURE SHALL NOT MOVE WITH RESPECT TO THE ROOF.
- EXISTING EXIT SIGN/BATTERY COMBINATION UNIT TO BE LOWERED APPROXIMATELY 1500MM AS TO NOT BE OBSTRUCTED BY THE CABLE TRAY. COORDINATE EXACT LOCATION ON SITE. EXTEND WIRE AND CONDUIT AS NECESSARY.
- EMERGENCY KEYED DE-ENERGIZATION SOUTH SWITCH FOR MAIN DISTRIBUTION PANEL FEEDING CHARGERS. UPON SWITCH ACTIVATION, MAIN DISTRIBUTION PANEL CONTACT TO OPEN AND DE-ENERGIZE PANEL.
- 760mm X 140mm (DC CABLES)  
760mm X 140mm CW DIVIDER (AC CABLES, DIELECTRIC FIBER).
- 2 x 760mm X 140mm (DC CABLES)  
760mm X 140mm CW DIVIDER (AC CABLES, DIELECTRIC FIBER).
- 760mm X 140mm (DC CABLES)  
760mm X 140mm CW DIVIDER (AC CABLES, DIELECTRIC FIBER).
- 300mm X 140mm (DC CABLES)  
300mm X 140mm CW DIVIDER (AC CABLES, DIELECTRIC FIBER).
- EXISTING SECURITY CAMERA IN RELOCATED LOCATION. COORDINATE NEW CAMERA LOCATION ON THIS WALL WITH OWNER AND THE LOCATION OF THE NEW AIR INTAKE HOOD. EXTEND CONDUIT AS NECESSARY, ALLOW FOR SUPPLY, INSTALLATION AND TESTING OF NEW CAT6 CABLE FROM THE CAMERA TO THE PATCH PANEL IN THE IT ROOM.
- 37mm EMT CONDUIT C/W CAT6 23 AWG UTP FT4 PRE-TERMINATED CABLE BETWEEN DDC PANELS. INSTALL CONDUIT IN ACCORDANCE WITH TIA-569 REQUIREMENTS.



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 PARTIAL MAIN FLOOR SOUTH TRACKS – ELECTRICAL – NEW CONSTRUCTION

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