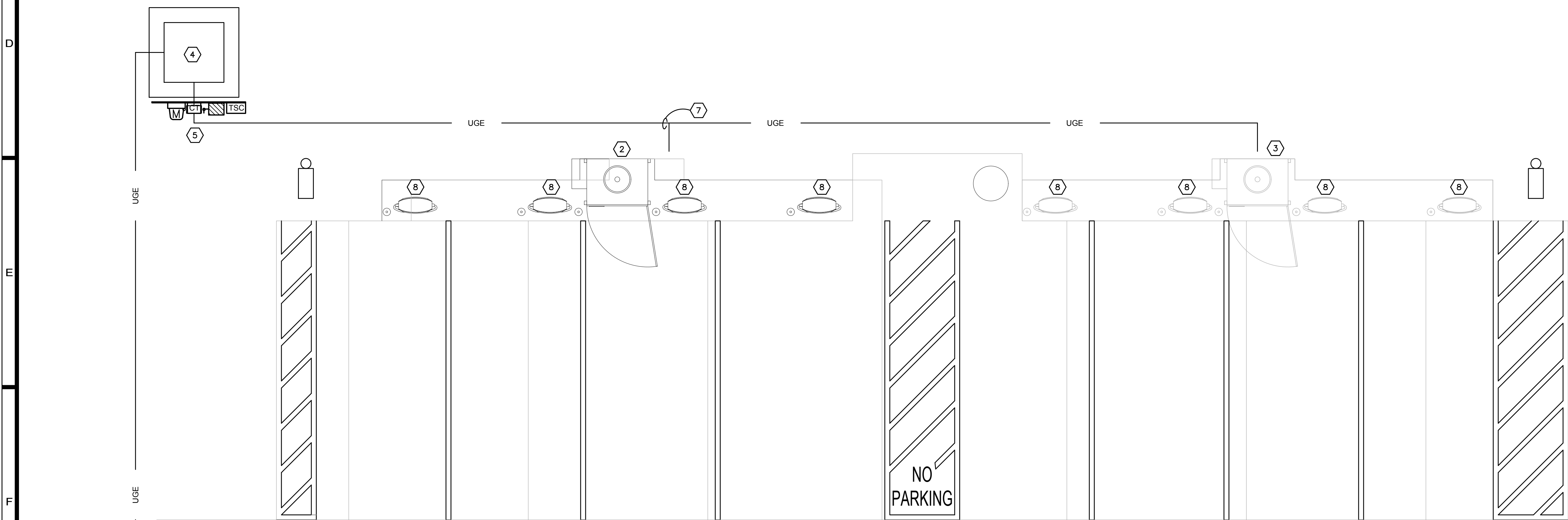


C1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

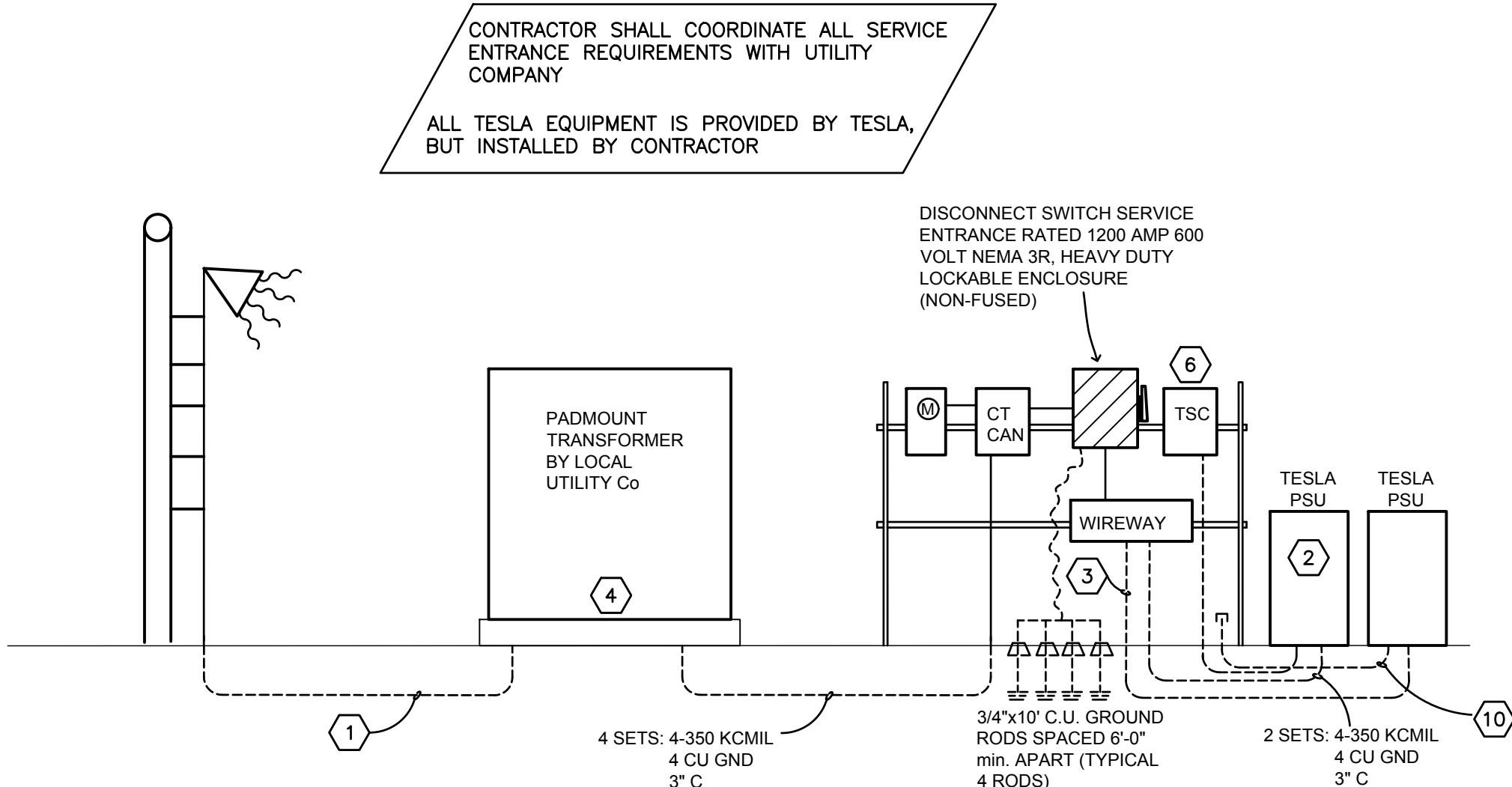


F1 ENLARGED ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL KEYNOTES:

- 1 PROVIDE AND INSTALL 2-4" CONDUITS FROM EXISTING UTILITY POLE TO NEW PAD MOUNT TRANSFORMER. CONTRACTOR SHALL NOTE THAT THE TRANSFORMER SHALL BE SIZED TO FEED ONE TESLA PSU (600 AMPS). THE TRANSFORMER SHALL BE UPSIZED LATER TO ACCOMMODATE THE FUTURE PSU AT A LATER TIME.
- 2 MAKE FINAL CONNECTION TO TESLA PSU INTEGRAL DISCONNECT.
- 3 FUTURE TESLA PSU. PROVIDE AND INSTALL 2-3" SPARE CONDUITS WITH PULLSTRING STUBBED UP AND CAPPED AT FUTURE PSU.
- 4 TRANSFORMER PAD SHALL BE SIZED TO ACCOMMODATE FUTURE LARGER TRANSFORMER WHICH SHALL SERVE THE FUTURE TESLA CHARGING STATION. COORDINATE WITH UTILITY COMPANY FOR EXACT PAD SIZE REQUIREMENTS.
- 5 UNISTRUT RACK INCLUDING METER, CT CAN, SERVICE ENTRANCE DISCONNECT, AND WIREWAY. SEE DETAILS.
- 6 TESLA SYSTEM CONTROLLER (TSC). PROVIDE 1-1" CONDUIT AND CAT6 CABLE FROM TSC TO PSU. ALSO PROVIDE 1-3/4" CONDUIT WITH #10 WIRE FROM TSC TO PSU TO POWER TSC. REFER TO TESLA WIRING DIAGRAM FOR EXACT POWER AND DATA CONNECTION REQUIREMENTS.
- 7 SUGGESTED ROUTING FOR UNDERGROUND ELECTRICAL AND CAT6 RACEWAY.
- 8 PROVIDE AND INSTALL 1-4" CONDUIT FROM PSU TO EACH SUPERCHARGER AND MAKE FINAL CONNECTION TO SUPERCHARGER. WIRING IS FACTORY INSTALLED.
- 9 PROVIDE AND INSTALL WISCONSIN LIGHTING LAB NF-SLS-100-40-HV-2W-RAL-6S-MPS LIGHT FIXTURE MOUNTED ON A VS-SSSA-25-4040-11-AB-FP SQUARE POLE. SEE FOUNDATION DETAIL. PROVIDE POWER FROM TESLA PSU VIA INTEGRAL 15AMP SINGLE POLE, 277V BREAKER WITH #12 WIRE, WITHIN A 3/4" CONDUIT. PROGRAM PHOTOCELL AND MOTION SENSOR IN ACCORDANCE WITH IECC 2021 LIGHTING CONTROL REQUIREMENTS. ARCHITECTURAL SHALL SELECT FIXTURE AND POLE COLOR/FINISH.
- 10 PROVIDE AND INSTALL 1" CONDUIT STUBBED UP AT TSC FOR FUTURE CAT6 CONNECTION, LEAVE PULLSTRING.

SAFETY SWITCH & FEEDER SCHEDULE						
EQUIPMENT SERVED	AMPERAGE RATING	VOLTAGE RATING	POLES	DUTY LISTING	NEMA RATING	FUSE SIZE
SERVICE ENTRANCE	1200	600	3	HEAVY	3R	1200



ELECTRICAL RISER DIAGRAM
NO SCALE

E1 ELECTRICAL RISER DIAGRAM
N.T.S.

ELECTRICAL GENERAL NOTES

1. COORDINATE EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES, LIGHT FIXTURES, ETC. W/ ARCHITECT / OWNER PRIOR TO ROUGH-IN.
2. COMPLETE CONNECTIONS TO ALL EQUIPMENT & PROVIDE PROPER CONDUIT SUPPORTS/STRAPS REQUIRED FOR SECURE INSTALLATIONS. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS W/ MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF ANY AND ALL RATED ASSEMBLIES AND SHALL PROPERLY SEAL ALL PENETRATIONS TO THE ASSEMBLIES SUCH THAT THE RATING(S) OF THE ASSEMBLIES ARE MAINTAINED.
4. REFER TO SPECIFICATIONS PRIOR TO ANY ROUGH-IN WORK FOR SPECIFIC REQUIREMENTS RELATIVE TO ROUGH-IN OF DEVICES.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF ALL CEILING MOUNTED DEVICES.
6. CONDUIT SHALL NOT BE RUN HORIZONTAL IN CONCRETE SLABS (ON GRADE AND AT LEVELS ABOVE). SHOULD IT BE NECESSARY TO RUN ANY ELECTRICAL SERVICES, CONDUITS, ETC. THROUGH THE BUILDING'S FOOTINGS, CONTRACTOR SHALL REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL RE-REINFORCEMENT REQUIREMENTS. WHERE ELECTRICAL SERVICES ARE RUN PARALLEL TO THE FOOTINGS, ALSO REFER TO STRUCTURAL DRAWINGS FOR THE MINIMUM CLEAR DISTANCE TO MAINTAIN BETWEEN THE FOOTING AND THE CONDUIT.
7. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF OR HERSELF WITH THE EXISTING CONDITIONS VERIFYING THAT THE WORK CAN BE PERFORMED AS DESCRIBED IN THESE DRAWINGS, PRIOR TO SUBMITTING A BID.
8. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL LOCATE ALL WORK TO REMAIN, INCLUDING BUT NOT LIMITED TO SITE UTILITIES, PLUMBING, HVAC, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL TO REMAIN, AND SHALL PROTECT SUCH WORK FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
9. FURTHERMORE, THE CONTRACTOR SHALL AT ALL TIMES CONSULT WITH THE ARCHITECT AND FOLLOW DIRECTIVES ISSUED BY THE ARCHITECT WHICH WILL INSURE THE CONTINUED SAFE FUNCTIONING OF THE OWNERS OPERATIONS. THE CONTRACTOR SHALL MINIMIZE ENCUMBRANCES TO THE OWNER'S OPERATIONS AT ALL TIMES AND SHALL NOTIFY THE ARCHITECT OF ANY WORK AFFECTING THE OPERATION OF THE OWNER AT LEAST THREE DAYS PRIOR TO PERFORMING SAID WORK.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE CORRECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING, PREPARING SHOP DRAWINGS, OR ORDERING MATERIALS.
11. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER AS TO CONCEAL IT AS MUCH AS POSSIBLE.
12. CONTRACTOR MUST COMPLY WITH 2020 (2026 POST JULY 1, 2026) NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
13. CONTRACTOR SHALL REFER TO ALL OTHER PORTIONS OF THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, ADDENDA, ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS AND ANY APPROVED CHANGE ORDERS) AND PROVIDE ALL LIGHT FIXTURES, OUTLETS, TELE/DATA OUTLETS, SPEAKERS, AND ASSOCIATED CIRCUITRY AS IF ORIGINALLY INCLUDED ON THE ELECTRICAL PLANS. IF THERE ARE ANY DISCREPANCIES, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING PRIOR TO ORDERING EQUIPMENT, ROUGH-IN FOR EQUIPMENT AND/OR INSTALLATION OF EQUIPMENT. PRIOR TO ROUGH-IN OF EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT AND REVIEWING SAID SUBMITTALS TO ENSURE COMPATIBILITY WITH THE ELECTRICAL SYSTEM. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE REQUIRED ROUGH-IN REQUIREMENTS AND THE ELECTRICAL SYSTEM.
14. PROVIDE NYLON PULLSTRING IN ALL EMPTY CONDUITS.
15. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS. NEUTRALS SHALL NOT BE SHARED.
16. PROVIDE COORDINATION AND SHORT CIRCUIT STUDY AS PART OF CONTRACT FOR COMPLETE ELECTRICAL SYSTEMS.
17. THE POWER COMPANY SHALL BE CONTACTED WITHIN TEN DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WITH HAVE AIC/ WITHSTAND RATINGS GREATER THAN THE AVAILABLE SSC AT EACH POINT IN THE ELECTRICAL SYSTEM.
18. CONTRACTOR TO VERIFY EXACT VOLTAGE FROM UTILITY TRANSFORMER PRIOR TO WORK



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Site Development for
Broadway EV Charging LLC

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