



COMMERCIAL/INDUSTRIAL EV CHARGER CHECKLIST

PERMIT APPLICATION & SUBMITTAL REQUIREMENTS

- Complete a building permit application online by visiting our [Online Permitting Portal](#)
- Provide ICC Electric Vehicle Charger installation contractor number
- Provide a Letter of Intent from the electrical contractor and a copy of their electrical license
- Complete and submit the attached electrical panel(s) schedule
- Submit a one-line diagram including the following:
 - Conduit size
 - Wire size
 - Grounding and bonding size
 - Burial depths
- Submit load calculations for each electrical panel
- Submit the vehicle charger specifications
- Submit a Plat of Survey indicating the location of the proposed charger stations
- Submit parking lot plan showing location of the electrical vehicle charger stations

Must comply with the following Codes:

- 2024 International Building Code
- 2018 Illinois Accessibility Code
- 2023 National Electrical Code (NEC)

INSPECTIONS:

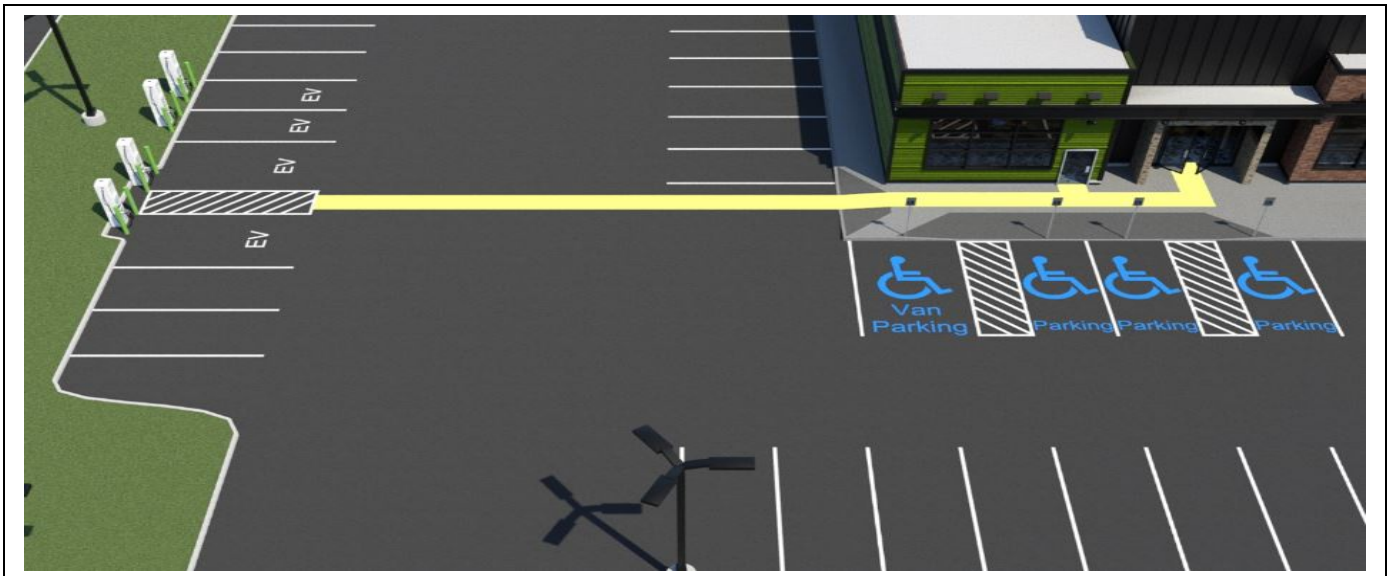
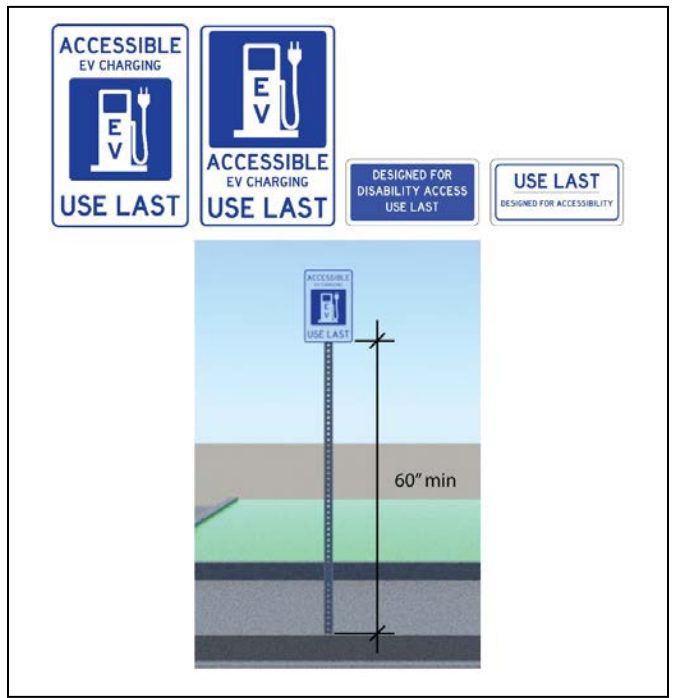
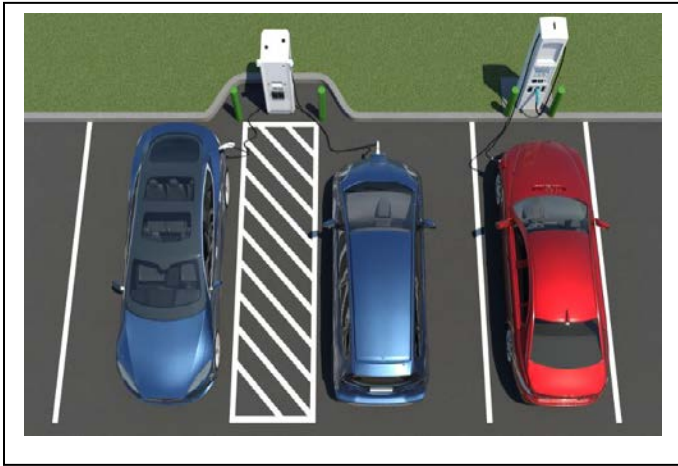
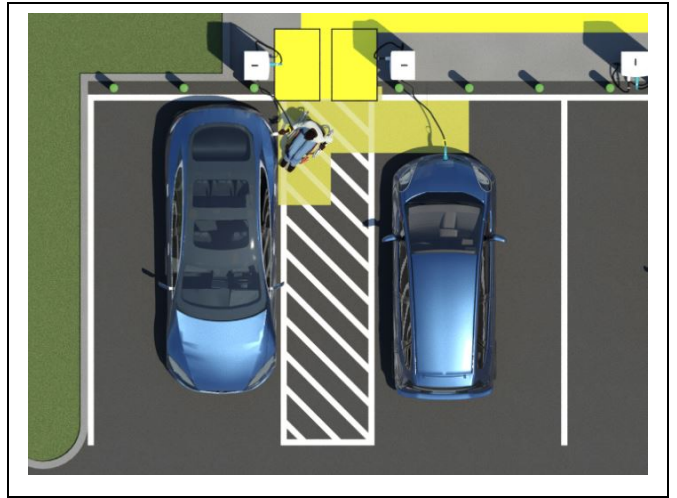
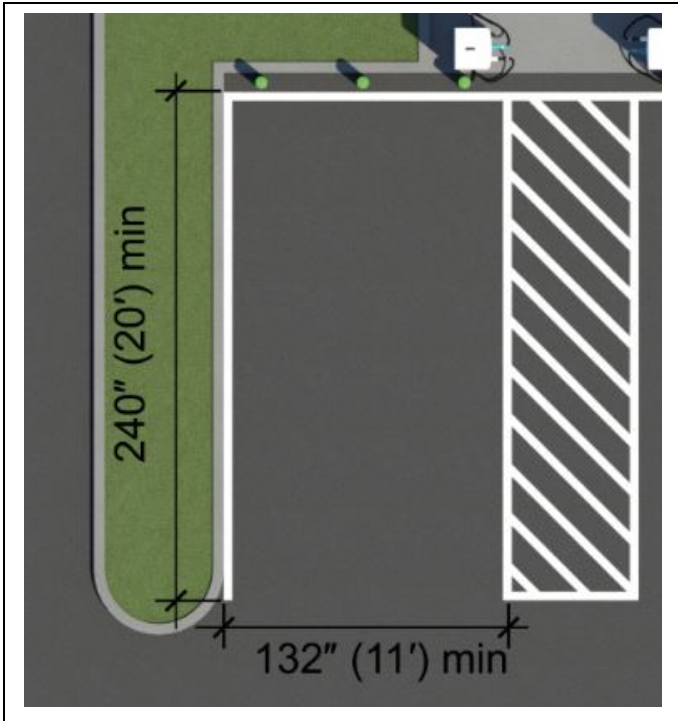
Inspections are scheduled by calling (847) 357-4220 between the hours of 8:00 a.m. and 5:00 p.m. Monday through Friday. Please have the **permit number** and **site address** ready. In addition, please allow a minimum of 24 hours when scheduling an inspection.

- BACKFILL INSPECTION**
- FINAL**

COMMERCIAL/INDUSTRIAL EV CHARGER REQUIREMENTS

General:

- Circuit must be rated and calculated at 125% continuous load per NEC Article 625.41 and 625.42
- Wire size must be one size larger per NEC Article 625.41 and 625.42
- Charger must be on a dedicated circuit per NEC Article 625.40
- EV charging stalls shall be designed according to the US Access Board design recommendations for EV charging stalls <https://www.access-board.gov/ta/tad/ev/>
- Minimum of one EV parking stall shall be ADA accessible
- Provide EV charger signage
- EV Chargers must comply with NEC Article 625



RESIDENTIAL [] COMMERCIAL [] - PANEL LABEL _____ - NEW [] EXISTING []

PANEL SIZE: 100-AMP [] 200-AMP [] 400-AMP [] OTHER____[]

VOLTAGE: 120/240 [] 120/208 [] 277/480 []

PHASE: 1-PHASE [] 3-PHASE []

TYPE OF SERVICE: OVERHEAD [] UNDERGROUND []

| CIRCUIT | CIRCUIT BREAKER SIZE | CIRCUIT DESCRIPTION | WIRE SIZE |
|---------|----------------------|---------------------|-----------|
| 1 | | | |
| 3 | | | |
| 5 | | | |
| 7 | | | |
| 9 | | | |
| 11 | | | |
| 13 | | | |
| 15 | | | |
| 17 | | | |
| 19 | | | |
| 21 | | | |
| 23 | | | |
| 25 | | | |
| 27 | | | |
| 29 | | | |
| 31 | | | |
| 33 | | | |
| 35 | | | |
| 37 | | | |
| 39 | | | |
| 41 | | | |

| CIRCUIT | CIRCUIT BREAKER SIZE | CIRCUIT DESCRIPTION | WIRE SIZE |
|---------|----------------------|---------------------|-----------|
| 2 | | | |
| 4 | | | |
| 6 | | | |
| 8 | | | |
| 10 | | | |
| 12 | | | |
| 14 | | | |
| 16 | | | |
| 18 | | | |
| 20 | | | |
| 22 | | | |
| 24 | | | |
| 26 | | | |
| 28 | | | |
| 30 | | | |
| 32 | | | |
| 34 | | | |
| 36 | | | |
| 38 | | | |
| 40 | | | |
| 42 | | | |