

City of Doral

EV Charging Stations

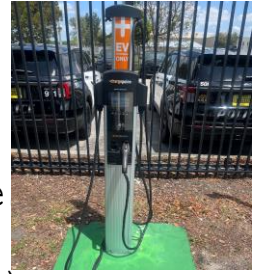


Existing Infrastructure

- Government Center Parking Garage
 - Number of chargers: 4 units (Chargepoint, Inc.)
 - Chargers type:
 - 2 - Single Pedestal (Model CT4010) Level 2
 - 2 - Dual Pedestal (Model CT4020) Level 2



- Police Training & Community Center
 - Number of chargers: 2 units (Chargepoint, Inc.)
 - Chargers type:
 - 1 - Single Pedestal (Model CT4010) Level 2
 - 1 - Dual Pedestal (Model CT4020) Level 2



- Parks & Recreation - Doral Central Park We Parking Lot
 - Number of chargers: 4 units (Chargepoint, Inc.)
 - Chargers type:
 - 4 - Dual Pedestal (Model CT4020) Level 2



- Cost of existing chargers (each unit):
 - ChargePoint CT4010 - \$2,850.00 (MSRP)
 - City Cost: \$2,600 EA (Purchased through State Sheriff Contract, FSA24-PWR3.0)
 - ChargePoint CT4020 - \$8,250.00 (MSRP)
 - City Cost: \$4,608 EA (Purchased through State Sheriff Contract, FSA24-PWR3.0)

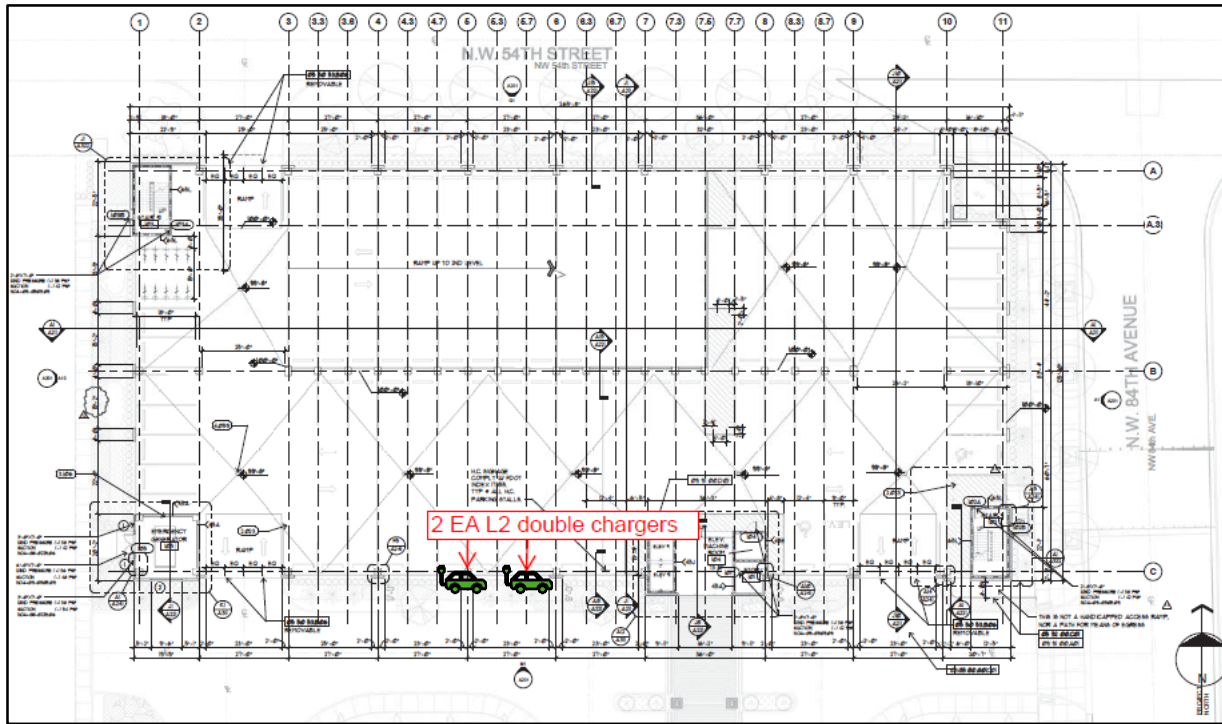
- Cost of Level 3 - \$39,600.00 (MSRP) (Single Pedestal)
 - City Cost: \$28,125.00 EA (Purchased through State Sheriff Contract)

- Note: At Government Center the units are installed by inhouse staff.

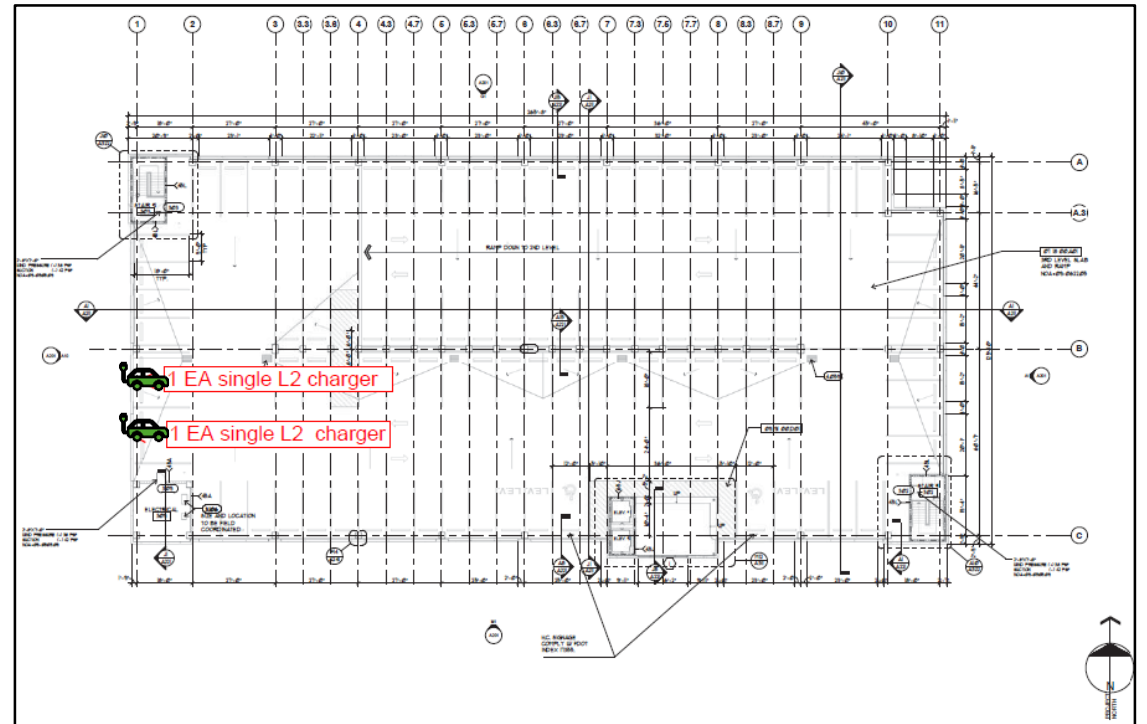


Government Center Parking Garage Existing Infrastructure

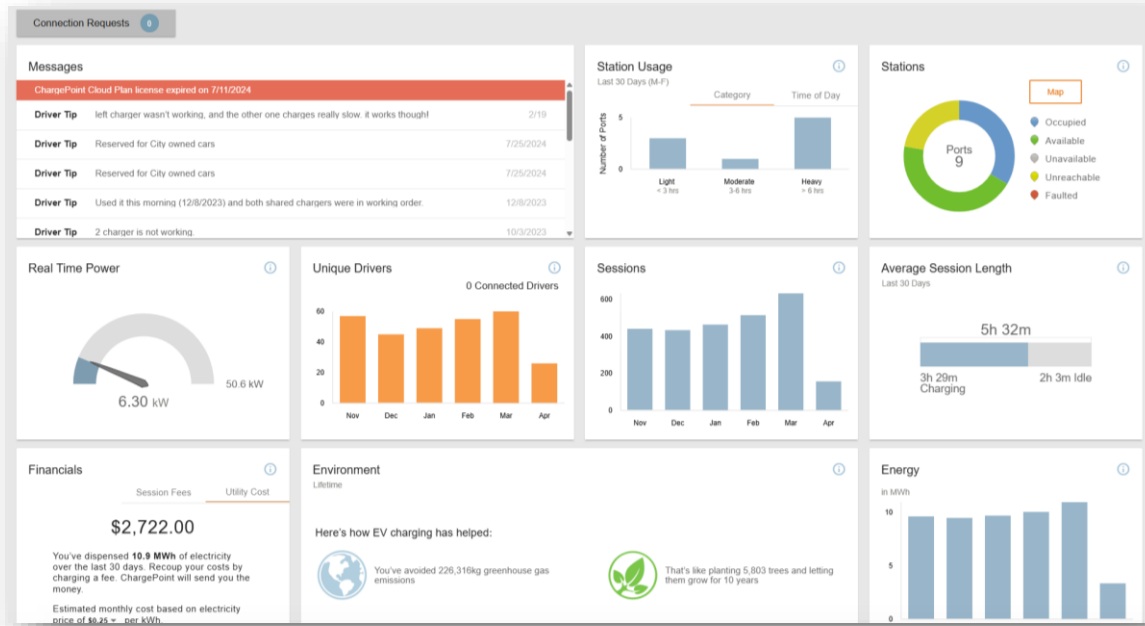
- 1st Floor



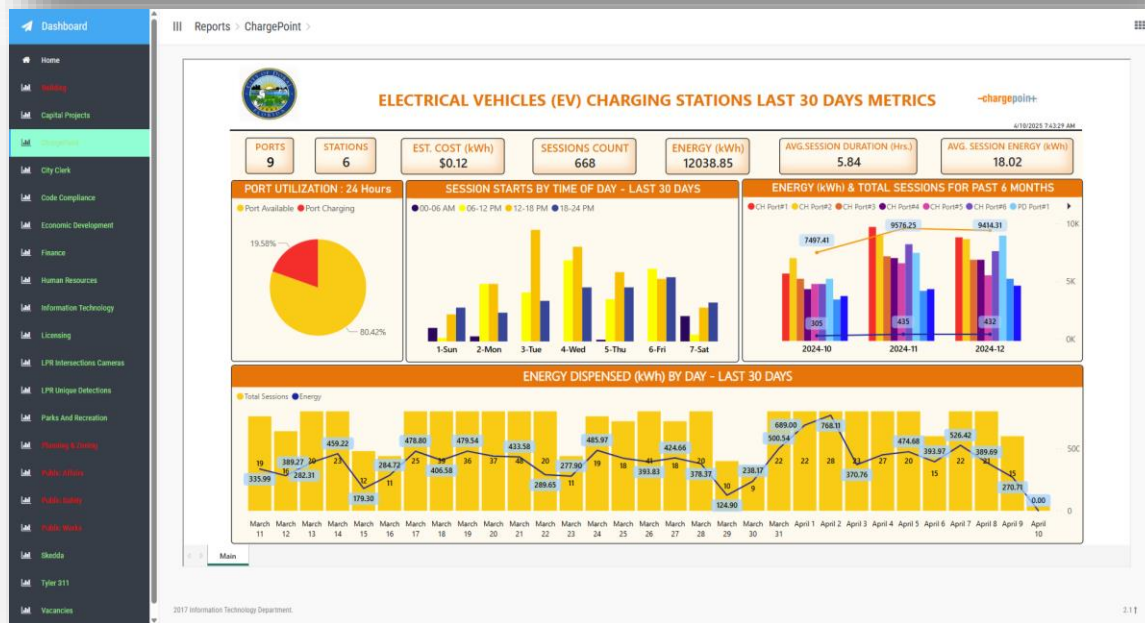
- 3rd Floor



Dashboard (Internal Use)



- Station Usage
- Power consumption
- Average Session Length
- Electricity Dispensed
- Energy
- Etc.



Use

- everyone.
- Cost to the City:
 - The City's cost at Government Center (GC) is \$0.25 per kWh on average from March 2024-2025.
 - Average cost of energy dispensed (FPL) \$3,000/month.
 - FPL bill for the Government Center on average from March 2024 to 2025:
 - Average Energy Bill \$14,329.48/month
- As per the US EPA, every passenger vehicle emits approximately 4.6 tons of CO2 per year.
- Based on these value the City has helped prevent the emission of approximately 500,000 lb. of greenhouse gasses.
- This is like planting 5,800 trees and letting them grow for 10 years.

Plan to charge: (Promote Use & Transfer)

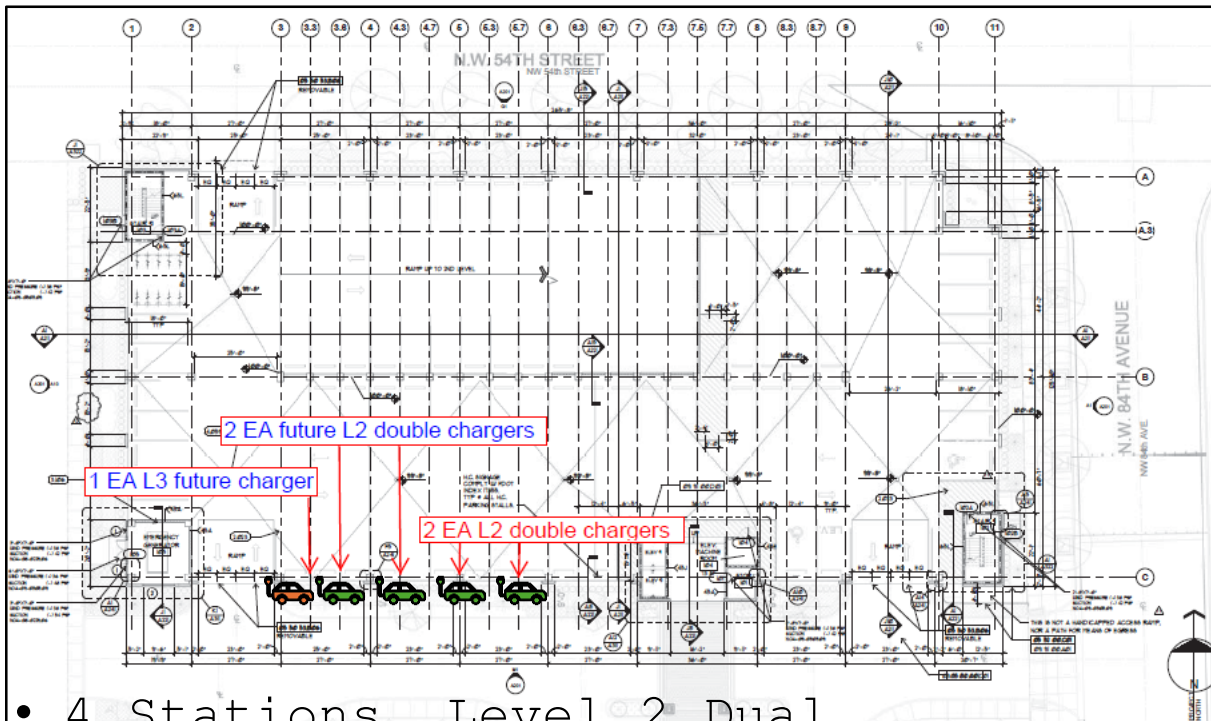
- Charging rate for ChargePoint chargers in the vicinity:
 - Downtown Doral Paseo Boulevard charges \$1.25 / hr.
 - 30 min. grace period, after the time has expired, rate increases per hour the longer it remains charging.
 - City of Miami Springs charges \$0.99 /session plus \$1.50 /hour.
 - Coral Gables charges \$0.30/Kwh.
 - 30 min. grace period, after the time has expired, rate increases by \$0.03/min.
- Average Charging cost in Miami (per Car & Driver Magazine): \$0.36 /Kwh
- Average Charging cost in the nation (per Car & Driver Magazine): \$0.55 /Kwh
- How much we can charge?
 - The City can program the chargers to provide a grace period and then start charging after the grace period has expired.
 - The price can be set to average the local price and offset the cost of the energy being dispense in addition to the Cloud Network and Assure Renewals (\$8,000 / Yearly)
- Limit charging to 3-4 hrs. and then increase charging fee to promote use and transfer.

Grants

- Grant:
 - Energy Efficiency Conservation Block Grant (EECBG) by the Department of Energy (DOE)
 - Grant is awarded by formula by the State of FL based on population through the DOE Infrastructure Bill.
 - Grant Use: Alternative Energy / Energy Efficiency Improvements
 - Grant Amount: \$140,950.00
- Funding will be used for improvements at the GC Parking Garage.
- New 200 Amps electrical panel to be installed (Existing panel is 200 Amps). New transformer will be installed.
- Number of Chargers to be installed:
 - 5 Level 2 dual pedestal
 - 1 Level 3 single pedestal
- Location of proposed chargers: 1st Floor & 3rd Floor Parking Garage

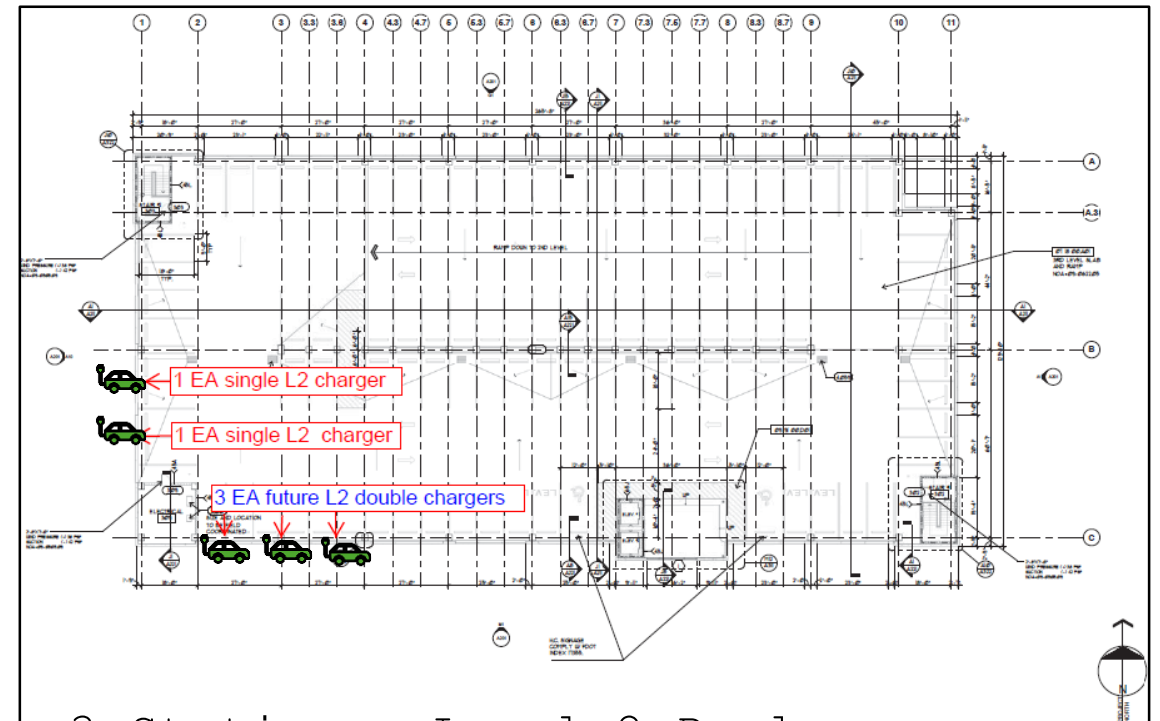
Government Center Garage EV Chargers Planned Improvements

• 1st Floor



- 4 Stations, Level 2 Dual Chargers - 8 Ports
- 1 Station, Level 3 Single Charger - 1 Port

• 3rd Floor



- 3 Stations, Level 2 Dual Chargers - 6 Ports
- 2 Stations, Level 2 Single Chargers - 2 Ports

Questions
?

