



Electric Vehicles Charging Stations

Background and Work to Date

The Fairlington Meadows EV Tasks has been meeting regularly since November 2021.

We have completed the following tasks:

- Discussed with Fairlington's Lawyer the issues related to personal chargers in non-deeded spaces
- Defined the focus of the task force community-based charger solutions
- Survey Meadows Residents
- Researched multiple charging providers to compare service levels and costs
- Researched and received quotes from two electrical contractors for infrastructure work
- Communicated with Fairlington Villages and Commons in relation to their EV chargers
- Presented updates at two board meetings and taken questions from residents
- Compete Special Board Meeting which invited feedback from residents and the board
- Reviewed meeting feedback and messages to the board both in support and with concerns



EV Charging Stations – Infrastructure Work

Based on PSE Quote:

- Install new 200 amp single phase outdoor rated electrical panel.
- New panel to contain (2) 80 amp circuit breakers for the car charger and (1) 20 amp circuit breaker for electrical panel convenience outlet.
- Install new ground rods and ground wire as required by current electrical code.
- Directionally drill underground from the new panel location to the parking lot. Approximate location of new car charger
- Install new conduit and wire for the proposed new bank car charger.
- Install new 2'x2' concrete car charger base to mount customer provide car charger.
- Provide electrical permit and final inspection.





EV Charging Stations – Revised Recommendations to the board

The following is the majority recommendation of the EV Task Force:

- PSE for the electrical work
- Blink for the Pedestals
- We are recommending the Electrical Modernization in the two courts, 3, 15,
- Leasing One Dual Charging Pedestal (the ability to charge 2 vehicles at once) initially, and the second dual charger based on demand in 2023.
- We are recommending a decision at the May Board Mtg so the Association can begin the process with Dominion (which can take 4-6 months)

The focus on the 2-location option, which had been discussed previously, reflects the feedback from residents in surveys and board communication that supports a community-based EV charging facility while taking into account some residents concerns over cost, scale and location.



Electric Vehicles Charging Stations – The costs



Breakdown of the costs:

- Electric upgrade and Infrastructure Costs \$30,282.96
 - For 2 locations
- 1 Dual Blink chargers on the “Blink As a Service” agreement
 - \$2,604 per year for 5 years

Warranty on parts and labor for all equipment including the cable management system

Network fees

100% of net revenue from the stations will be remitted back to the Association by Blink every 30 days via ACH deposit





EV Charging Stations – Why Courts 3 and 15

- Court 3 has nine unassigned parking spots. The location in front of 3343 S Stafford is the best candidate for the initial installation. There is one existing unassigned parking spot in front of the unit and there is another unassigned parking spot located 2 spaces away. There is an existing electric transformer with an existing account near this location.
- Court 15 has 3 unassigned parking spots. The location near the front of 3456 S Stafford will have one unassigned spot soon and we could move another resident to one of the other unassigned spots to have a dual charger station.

EV charging station's location selection criteria:

- Use of Unassigned parking spots
- Access to existing Fairlington Meadows electric service
- Parking spots be located on Meadow's property (not aligned along county sidewalks)
- No impact to sidewalks
- Locations convenient to residents (not concentrated in one location)





EV Electric Vehicles Charging Stations

Blink Product Overview

Blink IQ 200 Level 2 AC EV Charging Station

Fast 80-Amp Level 2 EV Charging

- Network connected charging stations
- Tracks energy usage and manages driver billing
- Multiple deployment configuration from single advanced unit, dual-port unit, and kiosk/smart configuration
- Flexible Installation: Wall, Pedestal, or Pole Mounts
- Flexible installation on any size circuit breaker from 10 to 100 Amps with 80% output at the port
- Local load management circuit sharing capabilities
- OpenADR 2.0b certified controllable output, supporting utility
- Blink OCPP v1.5 and v1.6J support demand response requests
- RFID, Apple Pay, Google Wallet, and all major credit cards payment methods

Full IQ 200 Specification
available at BlinkCharging.com.

*Coming soon

BlinkCharging.com • (888) 998.2546



EV Charging solutions with Blink
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