

National Electric Vehicle Investment (NEVI) Program for Pennsylvania (US 1 Edition)

October 6, 2022



NEVI Program

- Part of *Infrastructure Investment and Jobs Act (2021)*.
- Provides \$5 Billion for EV charging infrastructure over a 5-year period.
 - ❖ \$171.5 Million for PA from 2022-2026 (\$25.4M in FY2022).
 - ❖ States submit plans to FHWA to receive funding.
 - ❖ Federal funds cover 80 percent of project costs (acquisition, installation, O&M for five years) .
 - ✓ 20 Percent cost share from site hosts and vendors.
 - ❖ PennDOT expects to fund ~150 DCFC over five years.

NEVI Program

➤ Requirements:

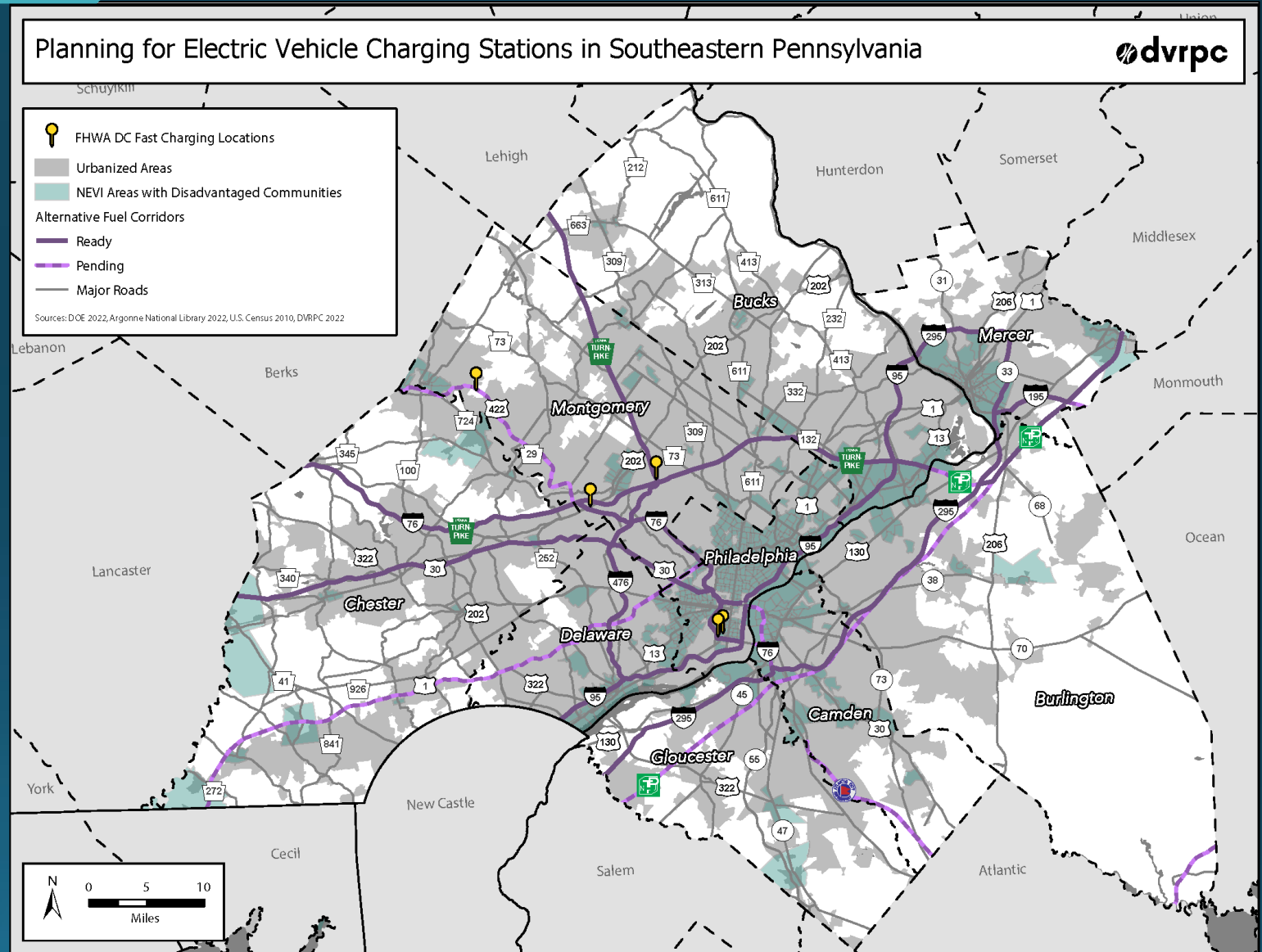
- ❖ Qualifying charging stations must be located within 1 mile of federally-designated Alternative Fuel Corridors (AFCs).
- ❖ Standards for charger equipment:
 - ✓ At least Four 150kW DCFC with minimum 600kW capacity.
 - ✓ One qualifying charging station every 50 miles along corridor.
 - ✓ Special consideration for Disadvantaged Communities and Rural Areas.

DVRPC Region AFCs

➤ AFC's in SEPA:

- ❖ I-76
- ❖ I-95
- ❖ I-276
- ❖ I-295
- ❖ I-476
- ❖ US 1 – Designated in 2022
- ❖ US 30
- ❖ US 422

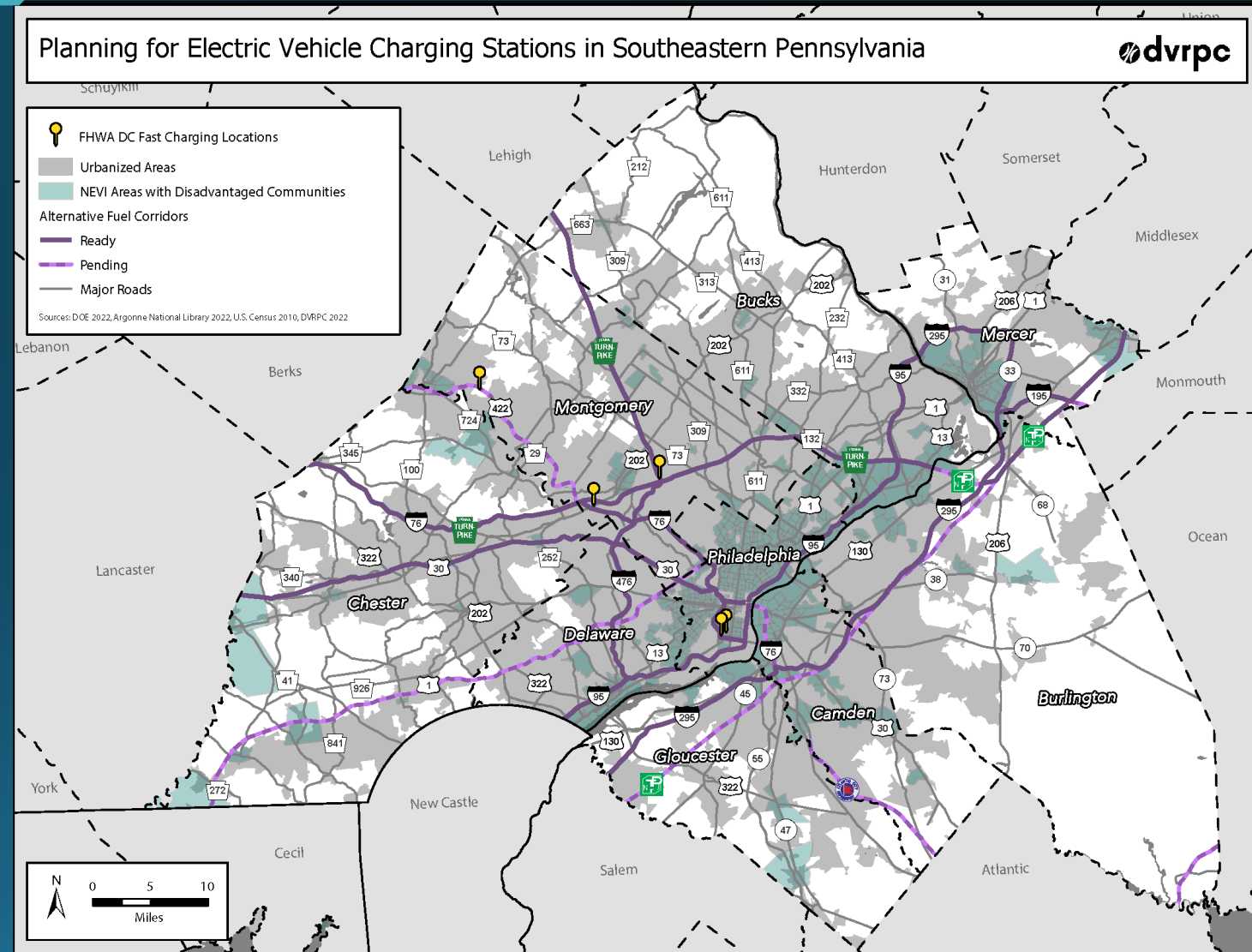
[PennDOT NEVI Map](#)



US 1 AFC

➤ Characteristics

- ❖ No Qualifying DCFC on the corridor between MD border and I-76
- ❖ Some interchanges qualify under Rural and DAC
- ❖ Important nodes for connections to north-south routes
- ❖ Western section is true “Interstate Look-alike” – Funding Focus Area 2
- ❖ Parallels I-95, MDHD potential



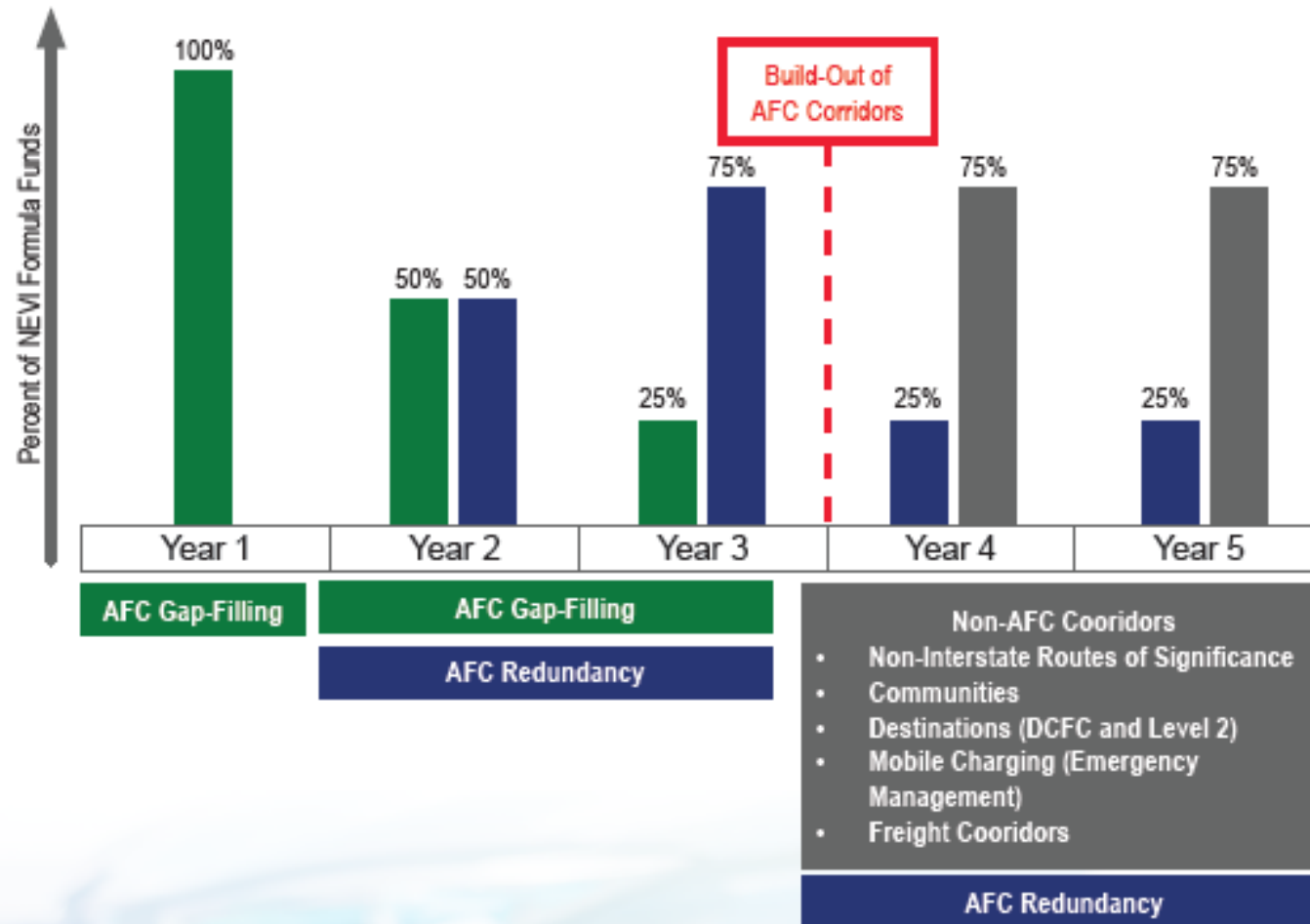
What we know:

- ❖ For these first rounds of funding, the EV Mobility Plan identifies DCFC priorities.
- ❖ Big state, DCFC are expensive (\$250K+).
- ❖ Whole US₁ AFC is 52 miles.
- ❖ Once AFCs are “Built Out”, PennDOT can focus on other facilities or level 2 charging.
- ❖ A national competitive program for DCFC is expected in the fall.

[PennDOT EV Mobility Plan](#)

What we know:

Figure 8: Phasing of Stations Receiving NEVI Formula Funds, by Funding Cycle



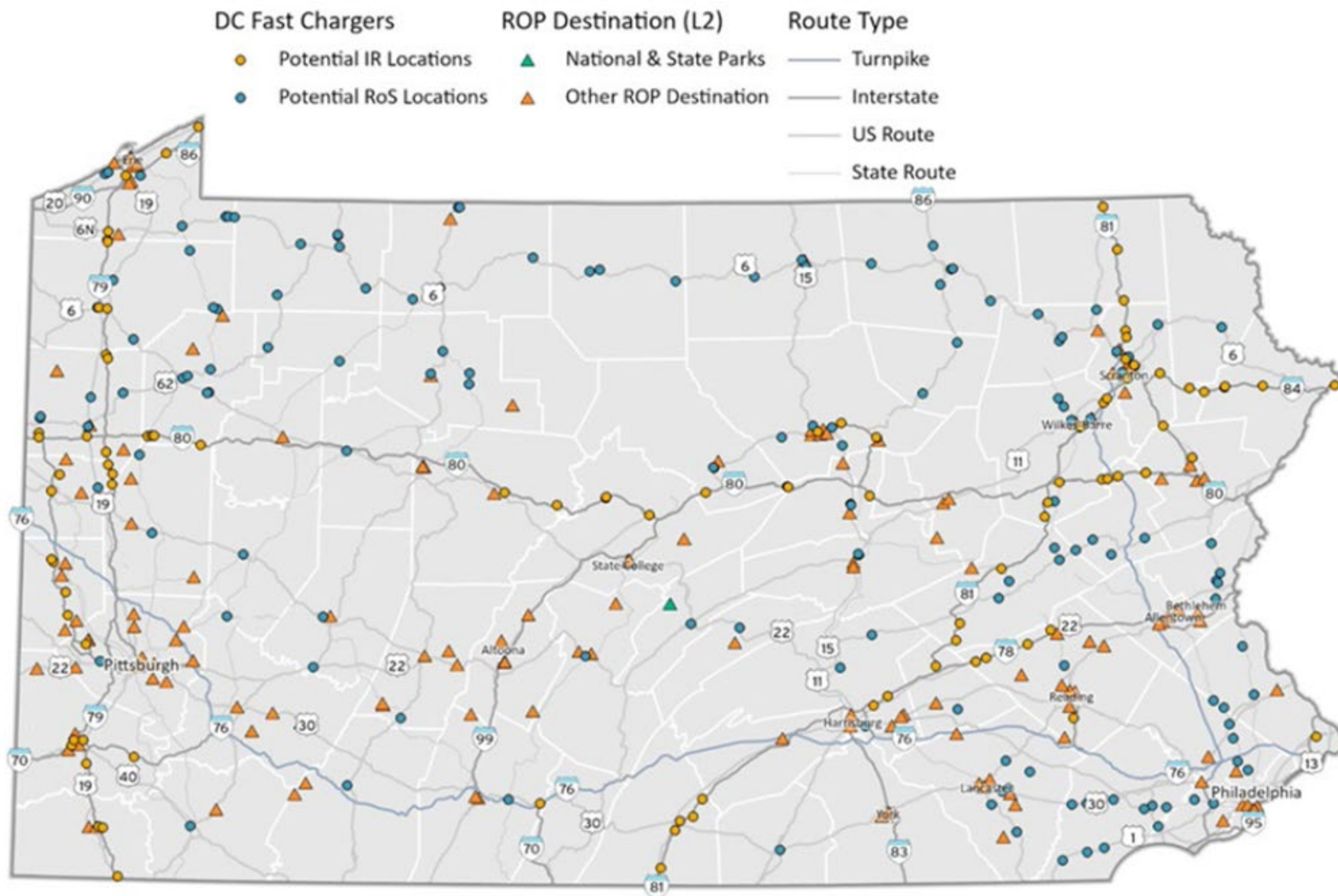


Figure 3.461 Recommended Locations for EVSE Installation Consideration

Site Considerations:

- Have ample parking.
- Are within 1 mile of an exit ramp or the corridor, depending on functional class. If no sites are available within 1 mile, sites at a slightly further distance can be considered.
- Are adjacent to restaurants or other amenities for drivers to visit while the vehicle charges. Locations with ample lighting and security measures are preferred.
- Appear to have enough power to support DC Fast Charging.
- Fill gaps – 20-30 miles from nearest DCFC on the corridor.

US 1 AFC

➤ Interchanges that meet these criteria:

✓ Oxford Commons:

- ❖ < 1 mi from PA 10 interchange
- ❖ ~1.5 mi from PA 472 interchange

✓ PA 796 in Penn Township & Baltimore Pike:

- ❖ <0.5 mi from PA 796 interchange

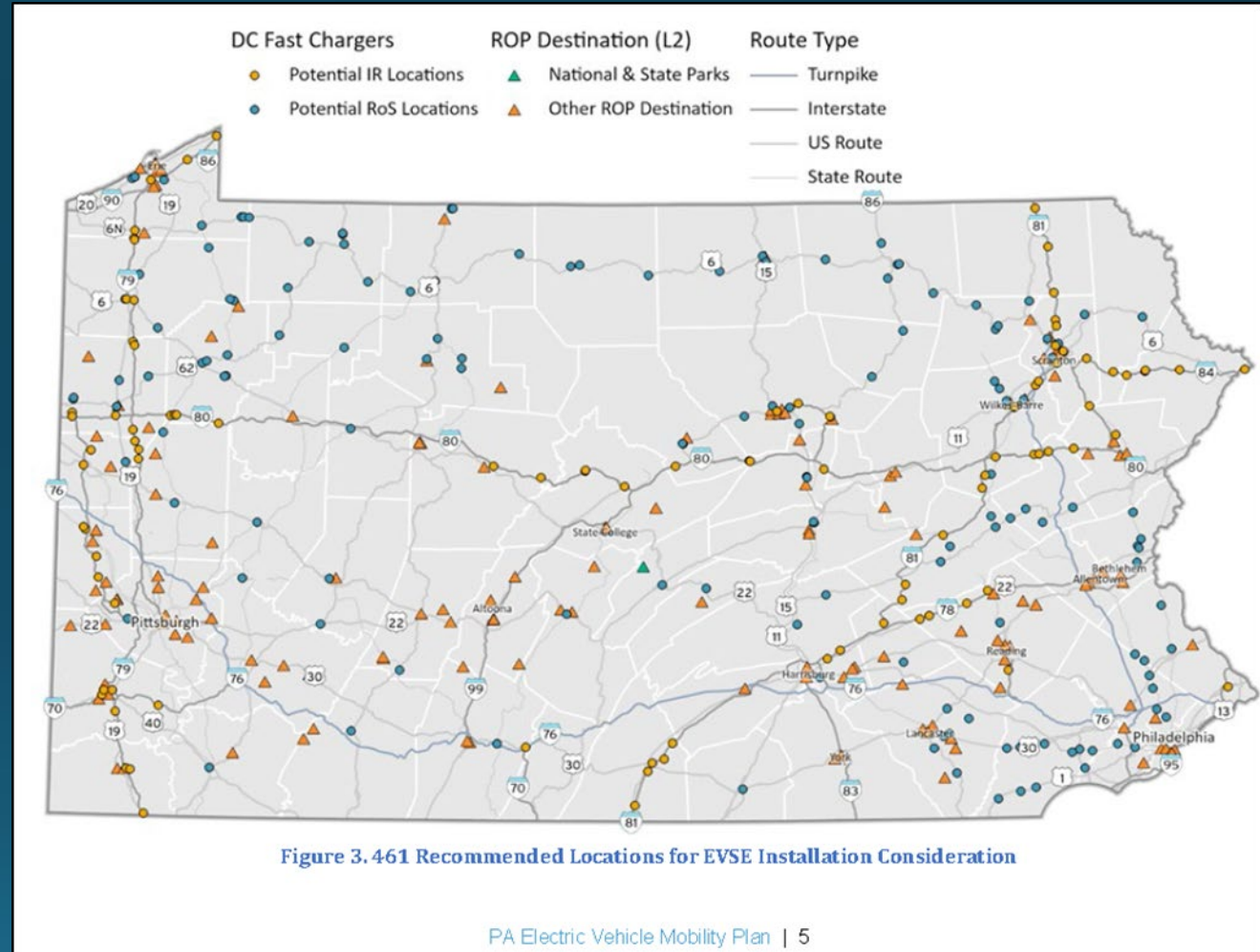
✓ PA 41:

- ❖ Numerous amenities and parking along PA 41 <0.5 mi from interchange

✓ US 202:

- ❖ Multiple options

[PennDOT NEVI Map](#)



What we know:

“PennDOT is planning to implement a competitive grant program to award and disburse NEVI Formula funds. This program will include a request for applications for private or public entities interested in receiving NEVI funding to install, own, and operate electric charging infrastructure in Pennsylvania.”

“AFC build-out and the designation of new AFCs will ultimately determine the number of DCFC deployed and whether funding may also be used for less costly Level 2 chargers or other charging alternatives.”

Preparing for the Future

- NEVI is a multi-year funding opportunity.
 - ❖ Not the only game in town.
 - ❖ AFIG, Driving PA Forward, other incentives.
- DCFC must be supplemented with level 2 chargers.
- Plan and Prioritize.

Factors to Consider

- Distance from existing stations.
- EV concentration.
- Average Annualized Daily Traffic (AADT) & truck traffic.
- Population and Employment density.
- Amenities.
- Rural or Disadvantaged Status.

Timeline – Important Dates

- August and September – Central Office Meets with City and District.
- October 2022 – FHWA Approves PennDOT NEVI Plan.
- November 2022 – PennDOT announces Grant Program.
- February 2023 – Grant (Round 1) applications due.
- June 2023 – Grant awards announced.

Discussion

- What can DVRPC offer?
 - ❖ Data, mapping, analysis.
 - ❖ Connections to PennDOT Program staff, Clean Cities, Training Resources.
- What is your interest and capacity for this effort?
- Start planning now!
 - ❖ Partners, budgets, and proposals .