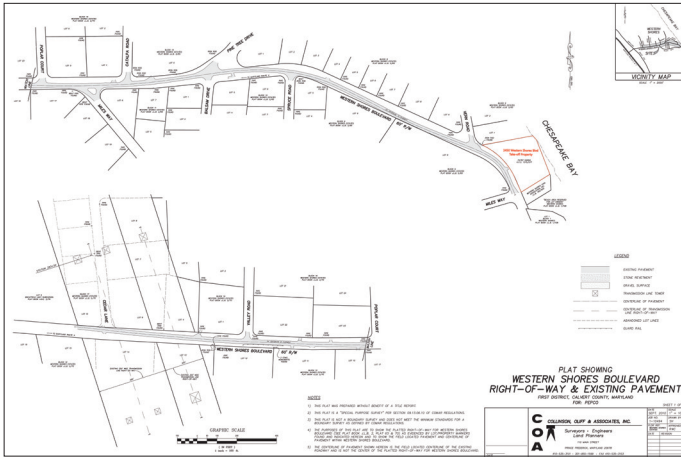


Installation Methods and Activities

The Mid-Atlantic Power Pathway (MAPP) is part of the solution to provide reliable, cost-effective electricity to the Mid-Atlantic region. Pepco and Delmarva Power plan to build the line from northern Virginia, across southern Maryland, ending in Delaware.

Cable Installation Along Existing Right of Way

The MAPP line will leave the BG&E right of way and follow Western Shores Blvd. until it reaches 2450 Western Shores Blvd. where it will transition from land-based to submarine cables for the Chesapeake Bay crossing.



Cables will be installed within existing county right of way.

Construction Schedule

- Construction is expected to take roughly three to five months
- Approximately 150 ft. of cable will be installed per day
- Less than 1,000 ft. of road will be closed at any given time

Duct Bank and Manhole Installation

When electricity lines are placed underground they often are connected through a series of duct banks. Manholes, which are rectangular structures, are installed at strategic locations to allow workers to obtain access to the cables in the duct bank.

Steps to Prepare for the Installation of Duct Banks and Manholes

1. Install sediment controls
2. Saw road surface
3. Excavate trench
4. Place sand/gravel
5. Install conduit
6. Pour concrete
7. Backfill and compact trench
8. Install manhole (accomplished as part of install duct)
9. Install temporary asphalt paving
10. Install permanent asphalt overlay
11. Complete final grading and seeding, where necessary
12. Remove sediment controls



Typical horizontal directional drilling machines

Cable Pulling and Splicing

- Lane closures will take place near each manhole in order to pull the cable
- After the cable is installed, it will be spliced within the manholes to create one continuous cable
- The splicing operation will take approximately two weeks per location
- Support and safety equipment will be visible
- Upon completion, the manhole lid will be flush with the ground surface

Horizontal Directional Drilling at Take-Off Property

- Four electrical conduits will be installed into the Chesapeake Bay seabed to prevent disturbance of the shoreline and the adjacent shallow water
- Conduits will end more than 1,000 ft. from the shoreline in the Chesapeake Bay
- Submarine cables will be pulled from the Bay, through the conduits and into the manholes at the take-off property

Duct Bank and Manhole Underground Installations

During construction Pepco will:

- Install two duct banks, each with three conduits in which the cables will be installed. Trenches will be approximately four to five ft. deep
- Install two manholes, one per duct bank, at the intersection of the BG&E right of way and Western Shores Blvd.
- Install two manholes at a midway point along Western Shores Blvd.
- Install two to four manholes on the take-off property. Manholes are expected to be approximately 34 ft. long by 15 ft. wide and 8 ft. high
- Use construction equipment such as pick-up trucks, flatbed trucks, dump trucks, concrete trucks, excavation equipment, paving equipment, cable transportation equipment, pulling equipment, small truck cranes, jersey barriers, steel road plates and fencing



Common duct bank and manhole installation activities