

# **Welcome to the Community Meeting for the Montgomery County Brookville Smart Energy Depot Project**

**Located at the Montgomery County Brookville  
Maintenance Facility Transit Shop  
8710 Brookville Road, Silver Spring**

**April 19, 2021**





# Site Context





# Site



# Project

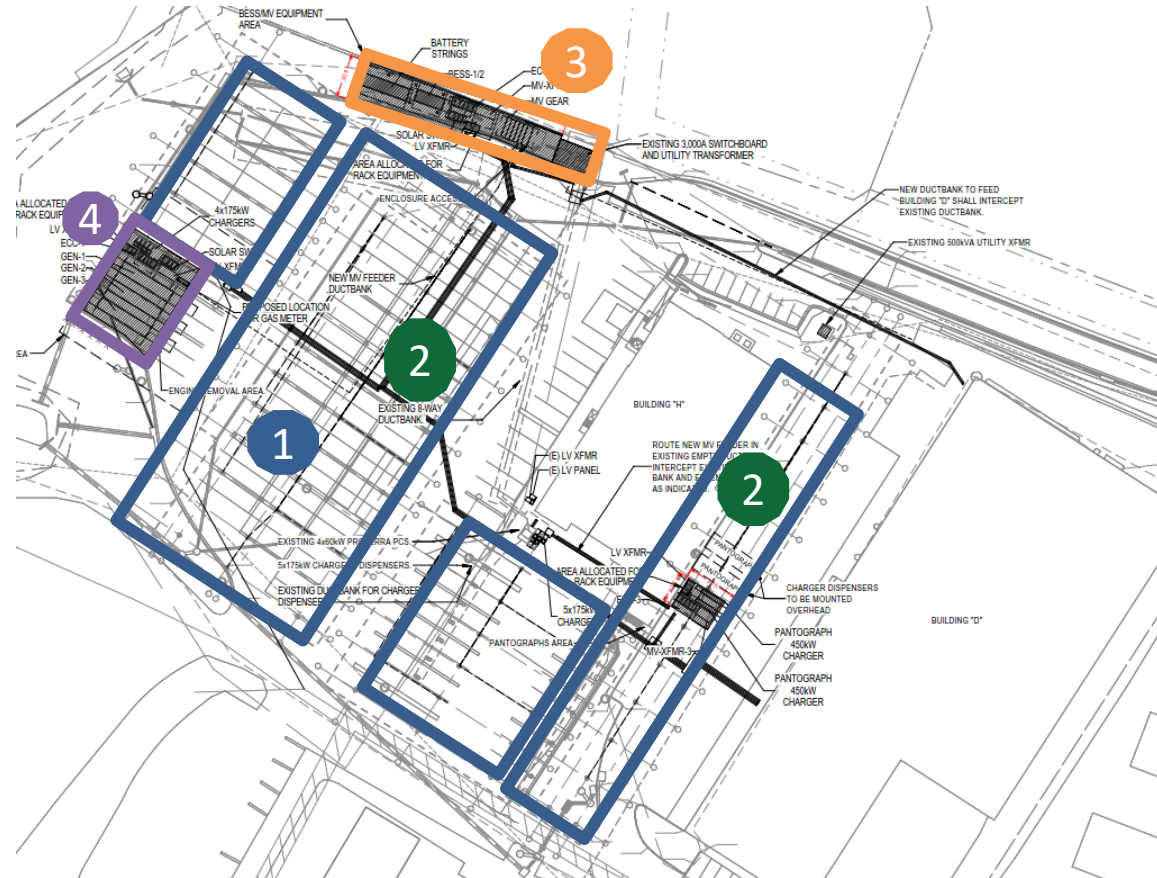
- **Electric bus charging**, incorporating **clean energy production technologies** will enable the County to provide **sustainable, resilient, and reliable energy supply for bus charging and site operations**. The Project will include the following:
  - 2 MW of solar photovoltaic canopies that will provide electrical power to the buses and to the battery storage systems
  - 4.3 MWH battery storage
  - 2 MW of natural gas generation
  - Microgrid controllers



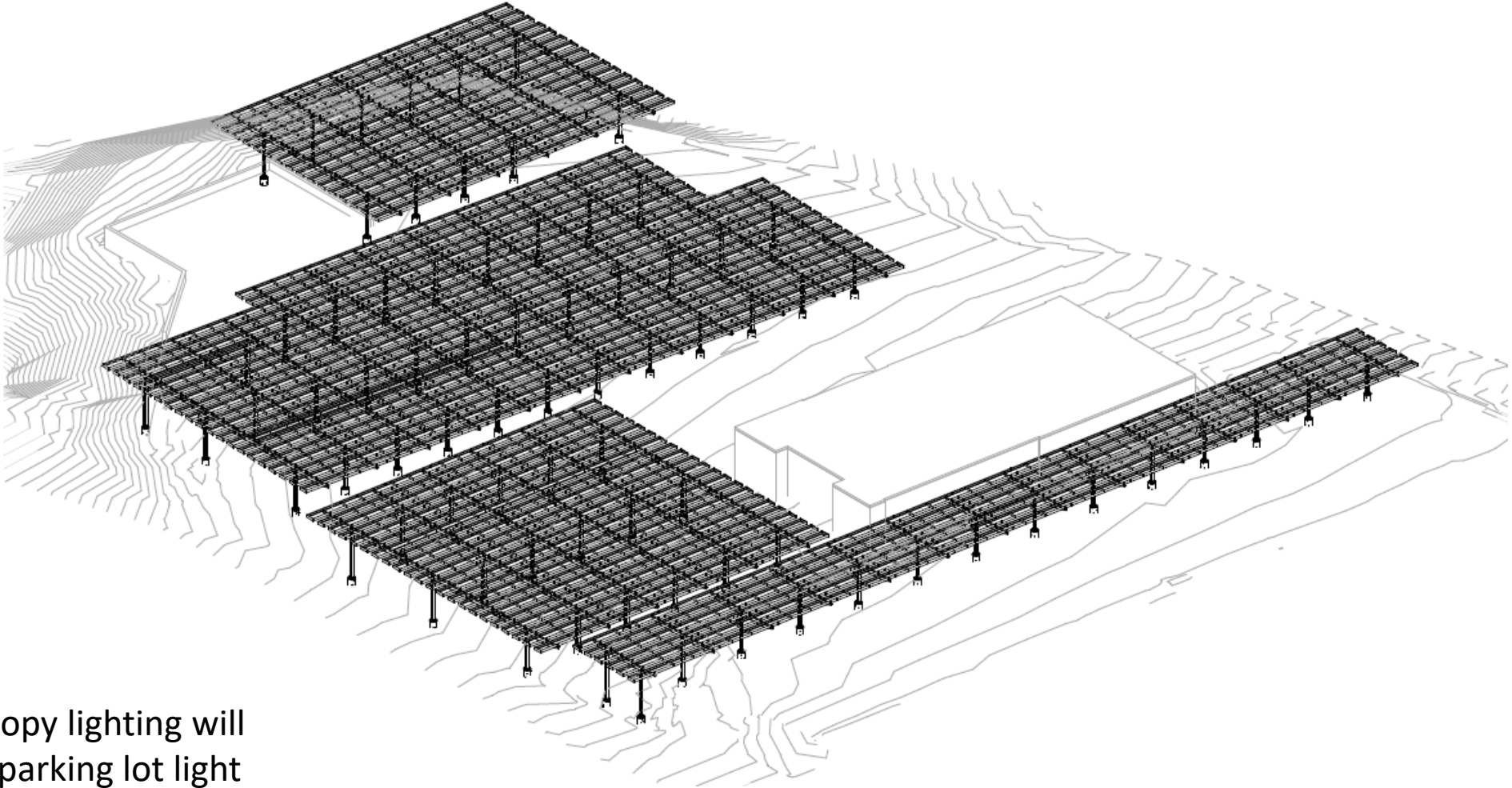
# Site Plan – Equipment Layout

## EV Smart Grid Depot Design

- 1 Solar Panels
- 2 Electric Bus Chargers
- 3 Battery Storage
- 4 Natural Gas Generators



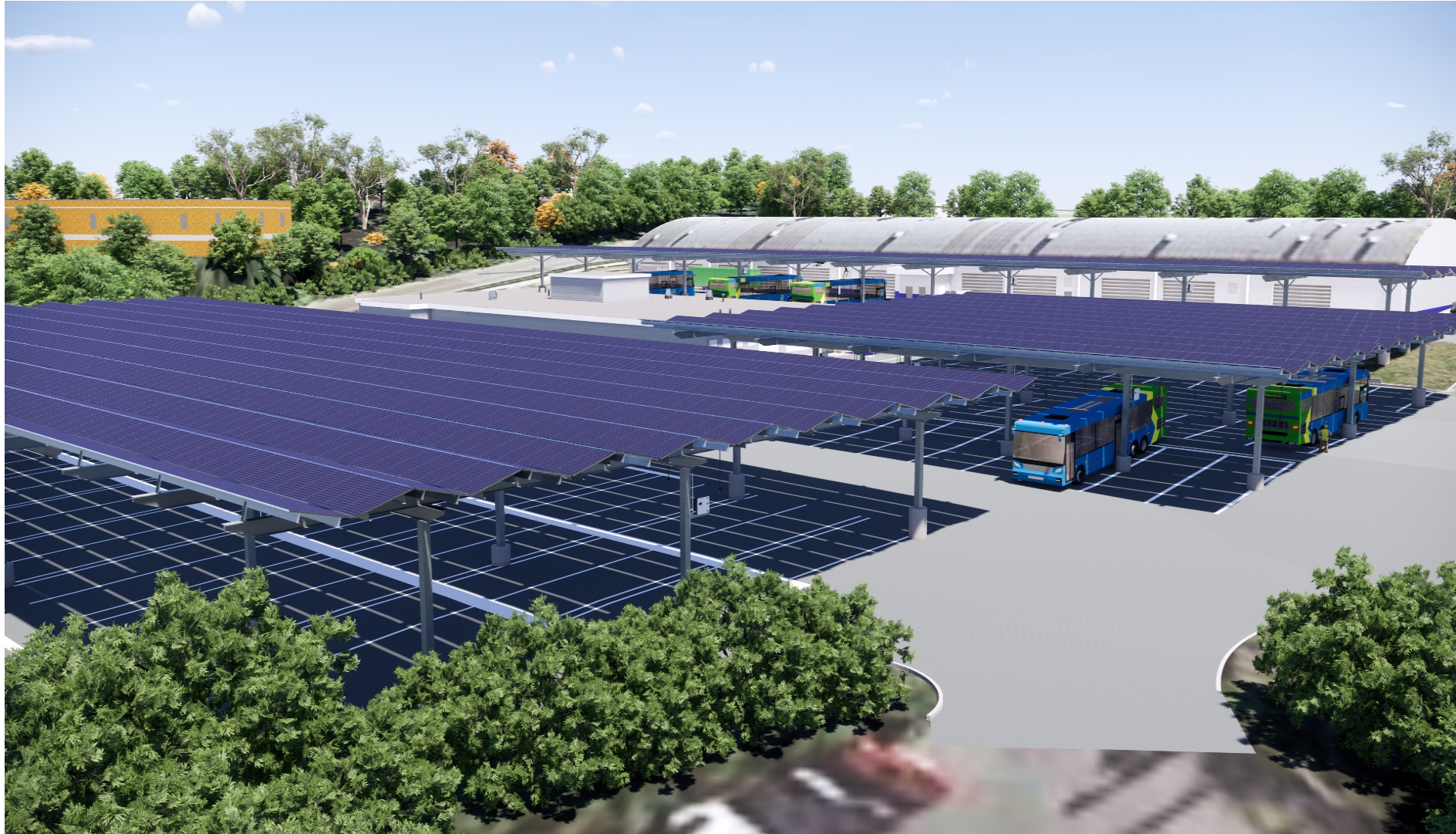
# Solar canopies



Solar canopy lighting will shift the parking lot light from high pole mounted pole lights.



# Solar Canopy Rendering



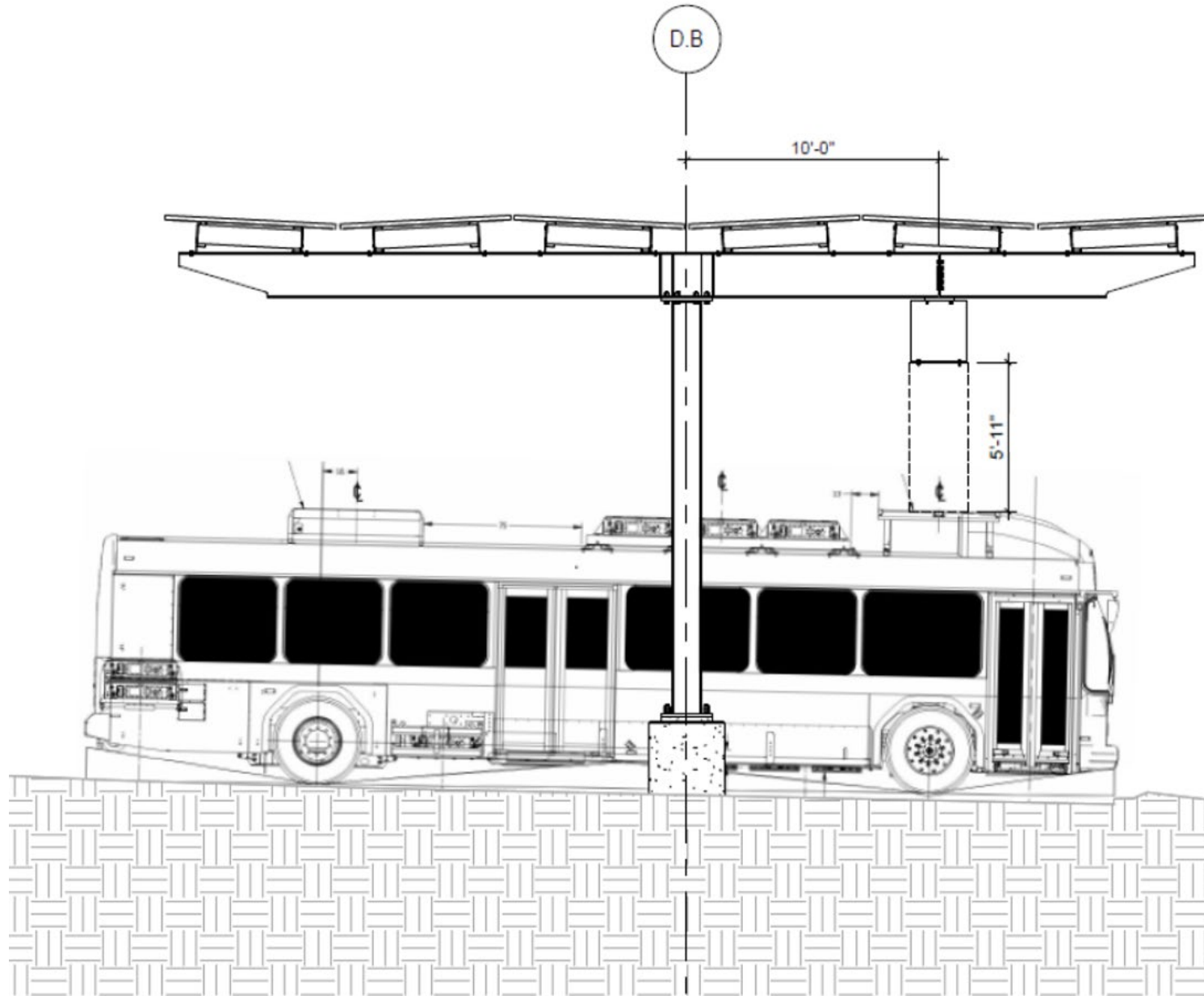


# Rendering of Reel Chargers





# Pantograph Chargers



# Electric Bus Chargers





# Battery & Battery Storage



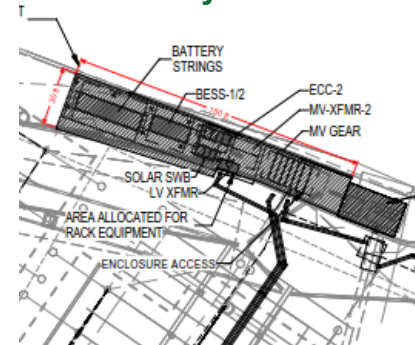
DynaPower BESS Battery String Container



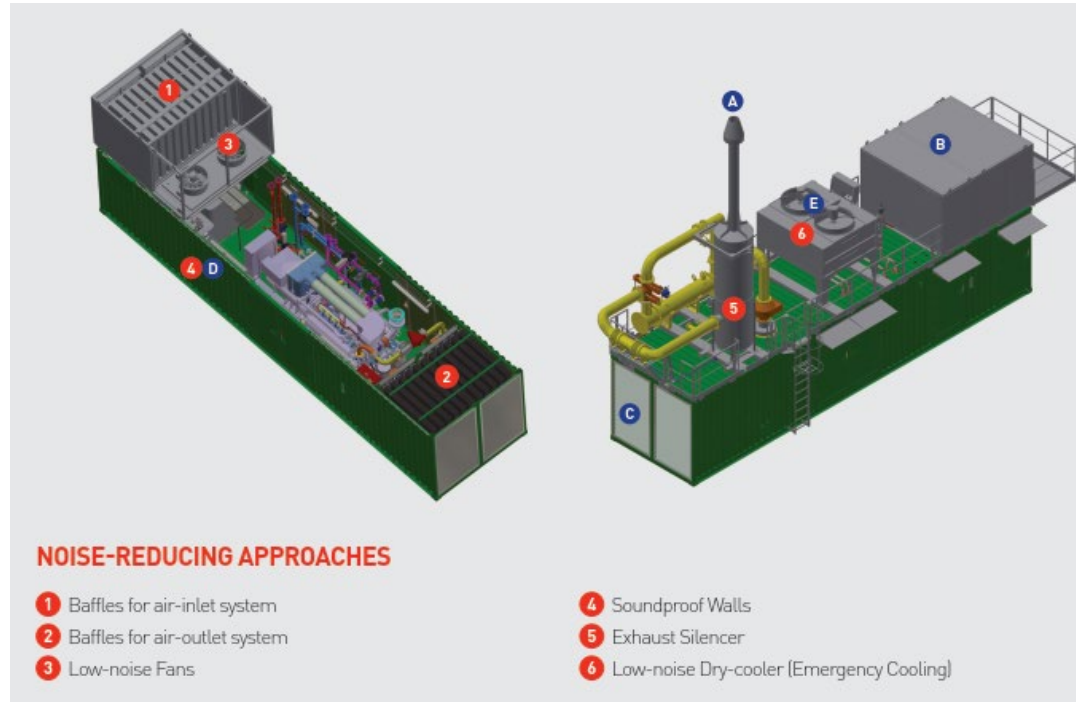
3D Rendering of BESS Area



DynaPower BESS Inverter

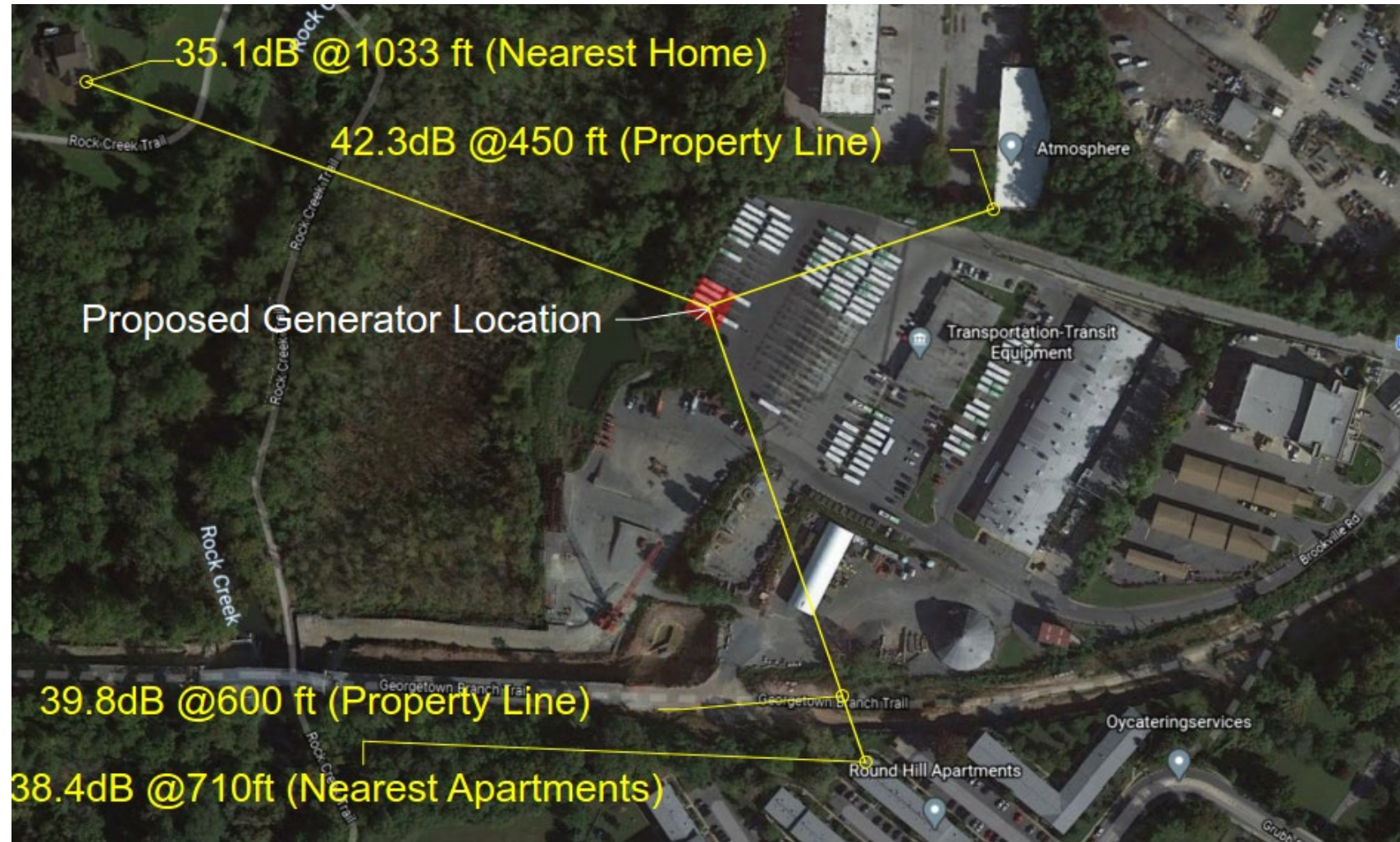


# Generators

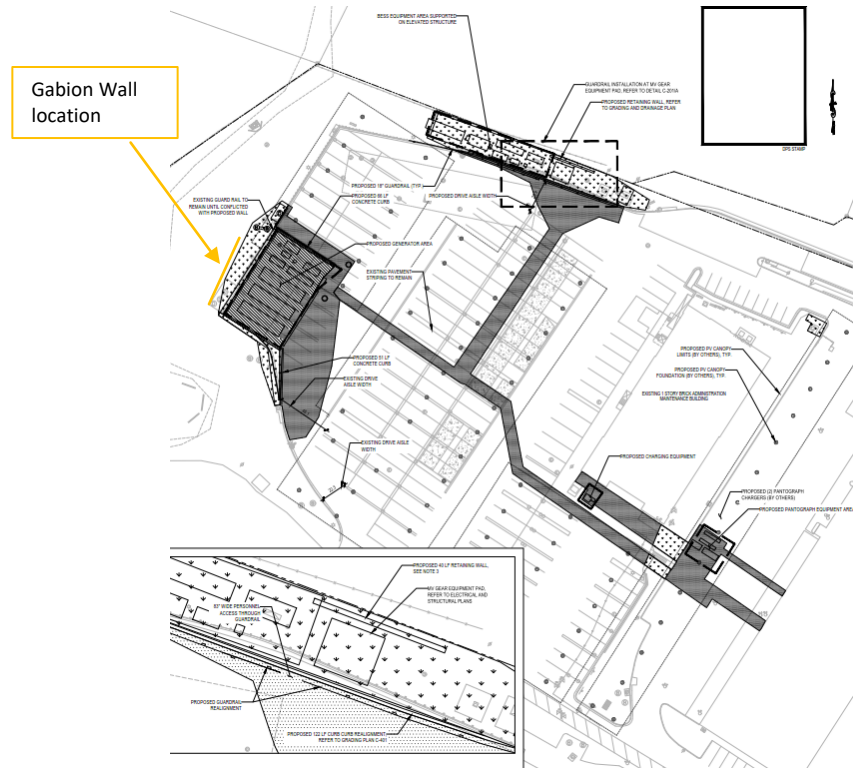




# Generator Details



# Stormwater Management





# Phasing/Schedule

- **Pre-submission meeting April 19, 2021**
- **Phase 1: Construction to commence fall 2021**
  - Electrical infrastructure, installation of all solar canopies, battery energy storage system, one generator and up to seven additional chargers
- **Phase 2: 2024**
  - Additional generator and up to 6 additional e-bus chargers

# Questions?

**Feel free to reach out to  
[dgs.green@montgomerycountymd.gov](mailto:dgs.green@montgomerycountymd.gov)  
with additional questions/comments.**

