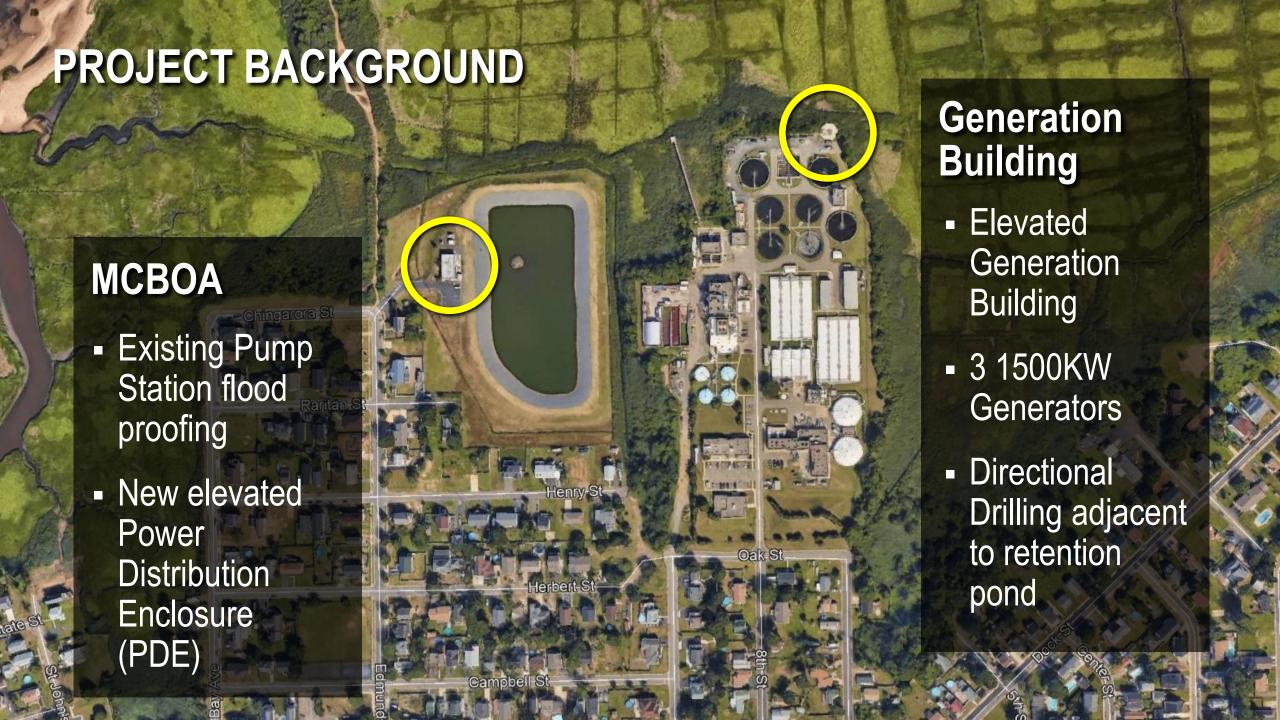


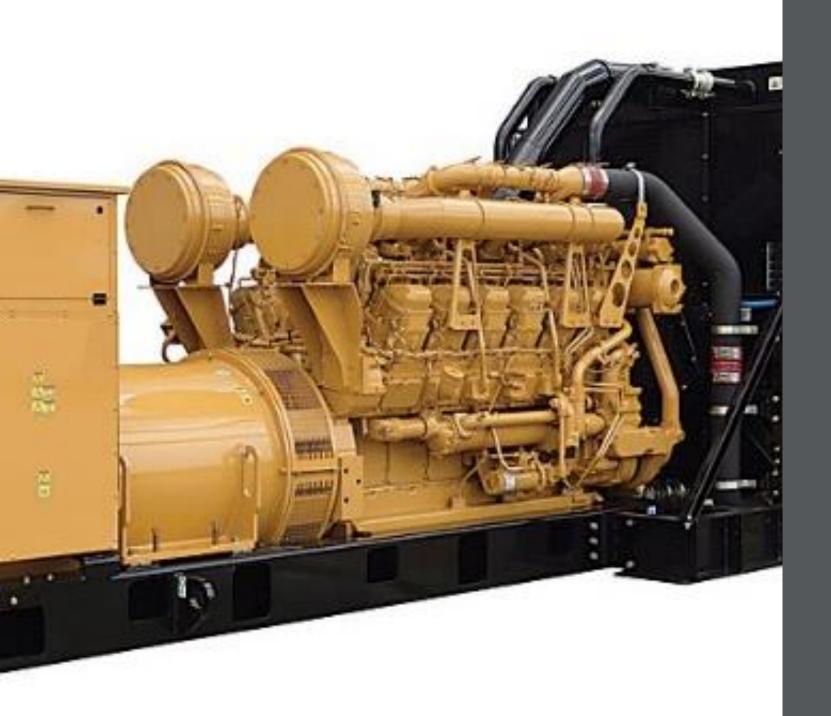
### Bayshore Regional Sewerage Authority Power Resiliency Generation Project

Public Presentation 4/19/2021



# ORIENTATION BRSA Campbell St Union Beach Union Beach Ce Ave



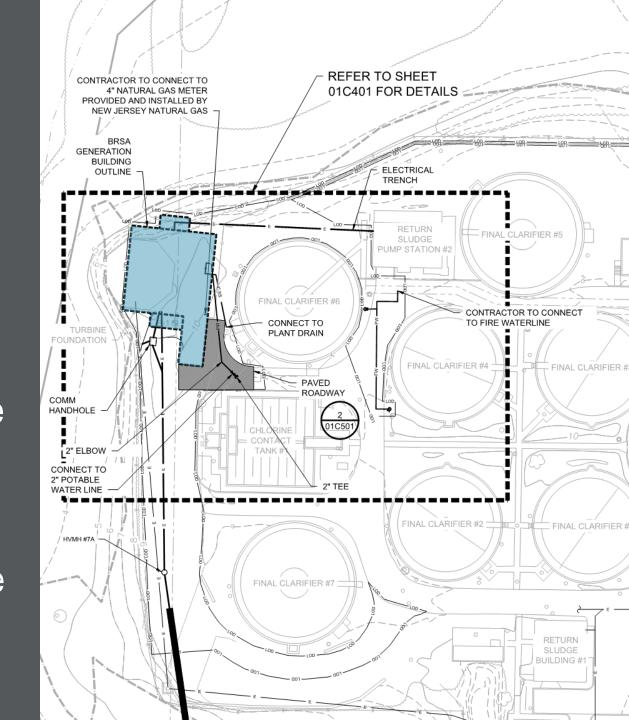


### PROJECT PURPOSE

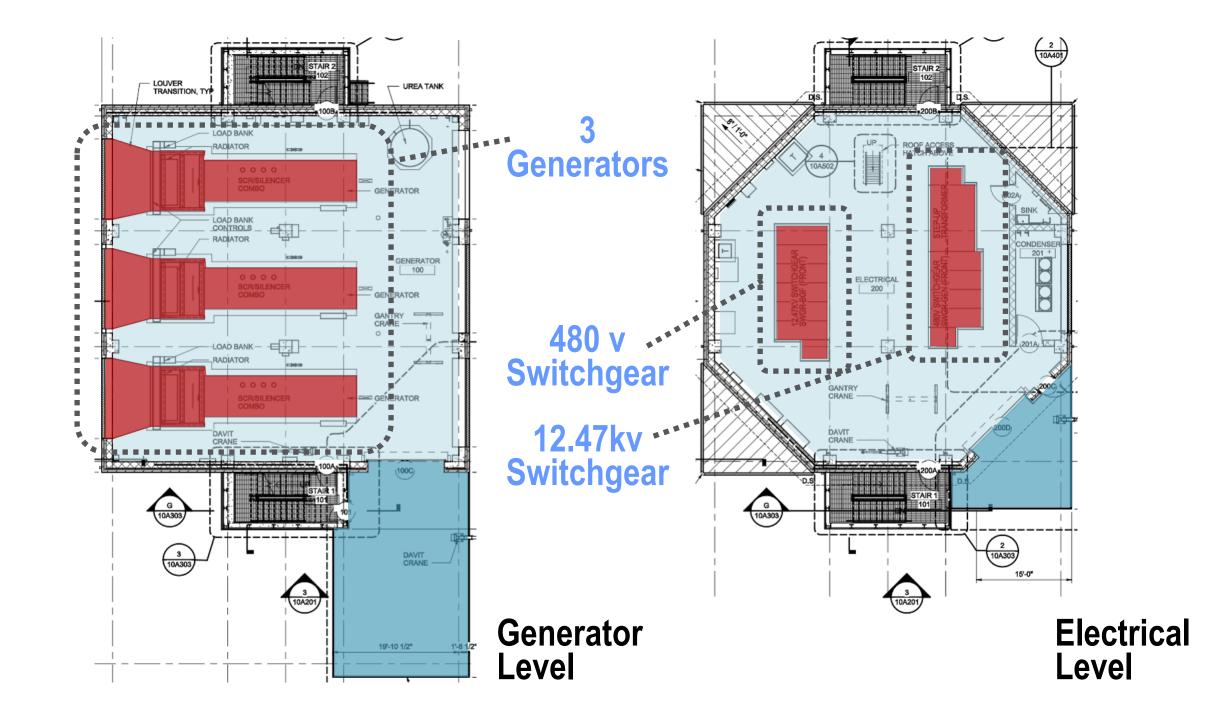
- The intent of the project is to provide the essential services of BRSA & MCBOA with reliable power in anticipation of, and during major storm events.
- BRSA & MCBOA services are a 24/7 operation that need to be maintained.

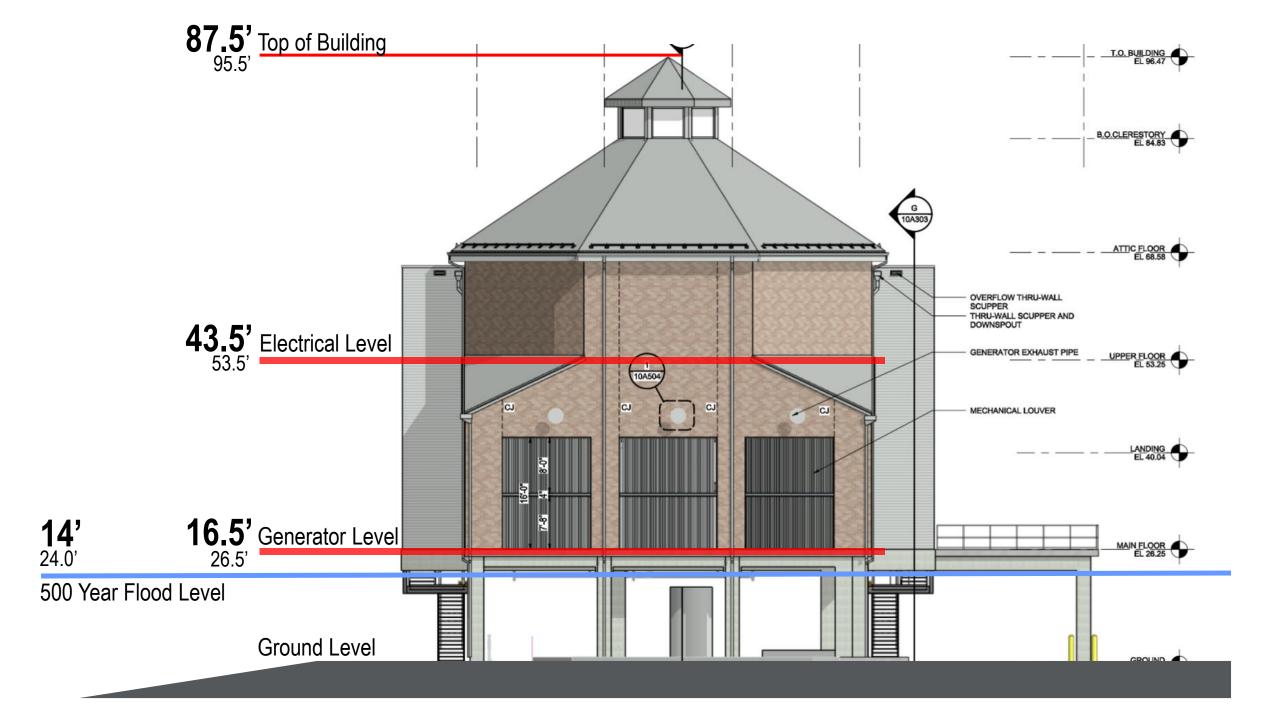
### **GENERATION BUILDING**

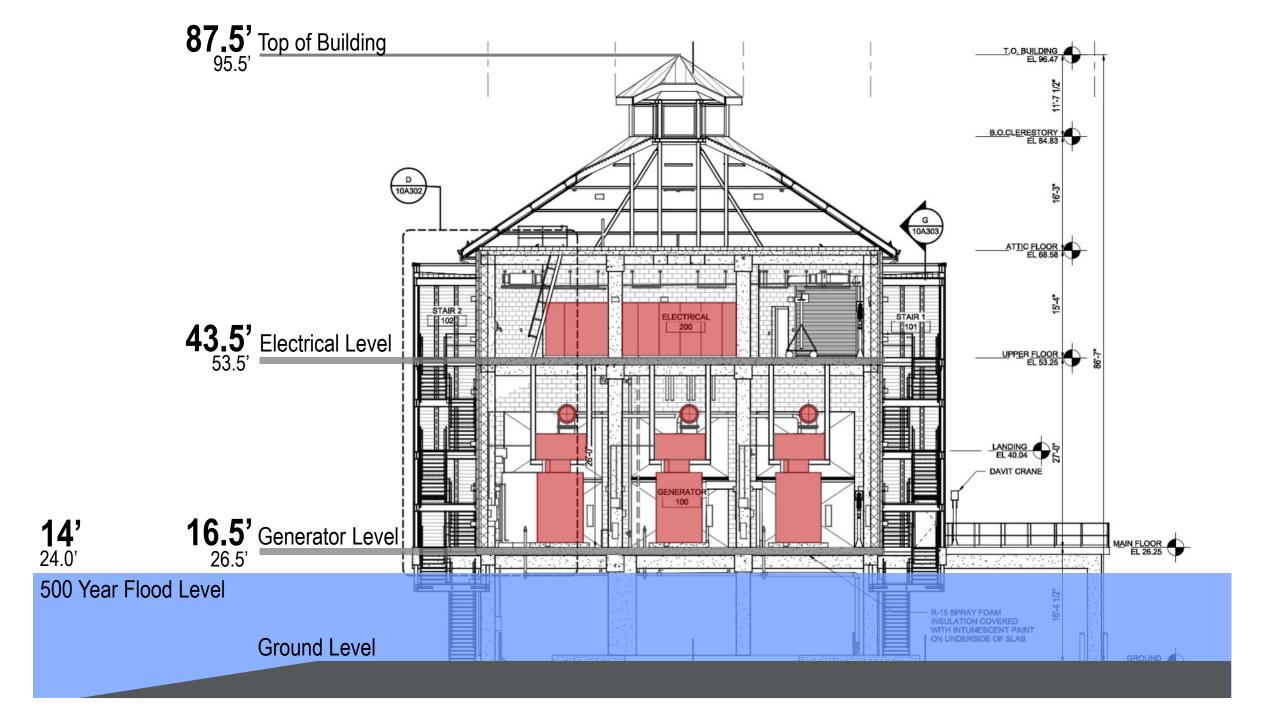
- Located atop the existing wind turbine pad
- Elevated above 500-year flood level
- Building Designated as "Special Industrial Occupancy"
- Emergency Generators running prior to major storm or during regular maintenance
- 2 hours/month maintenance
- Exhaust vents of Generation building are facing away from residents, directing noise towards the Bay.







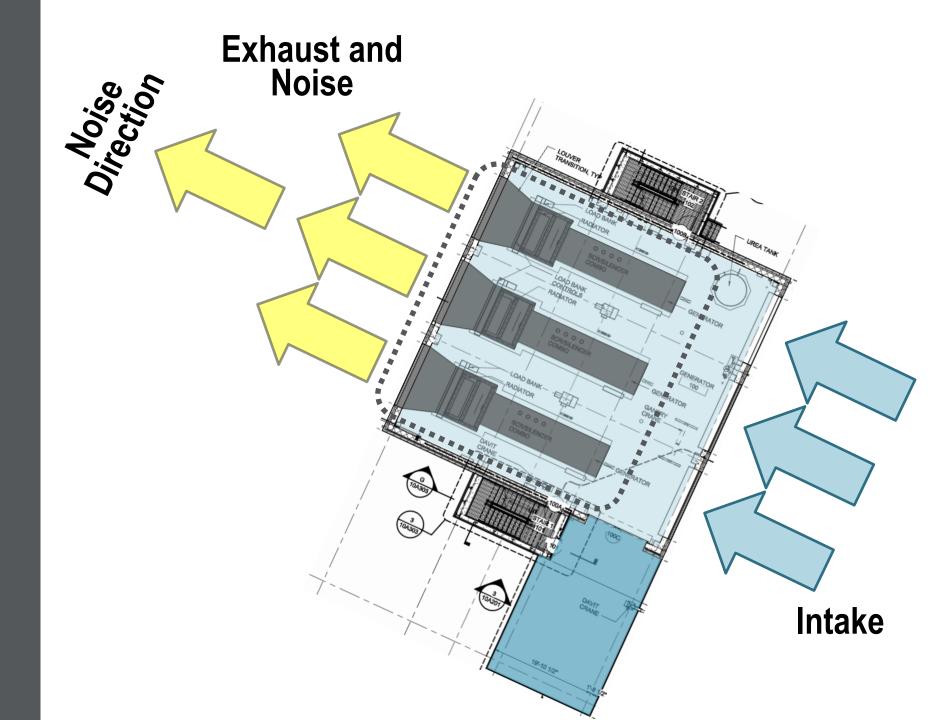








### AIR FLOW & NOISE

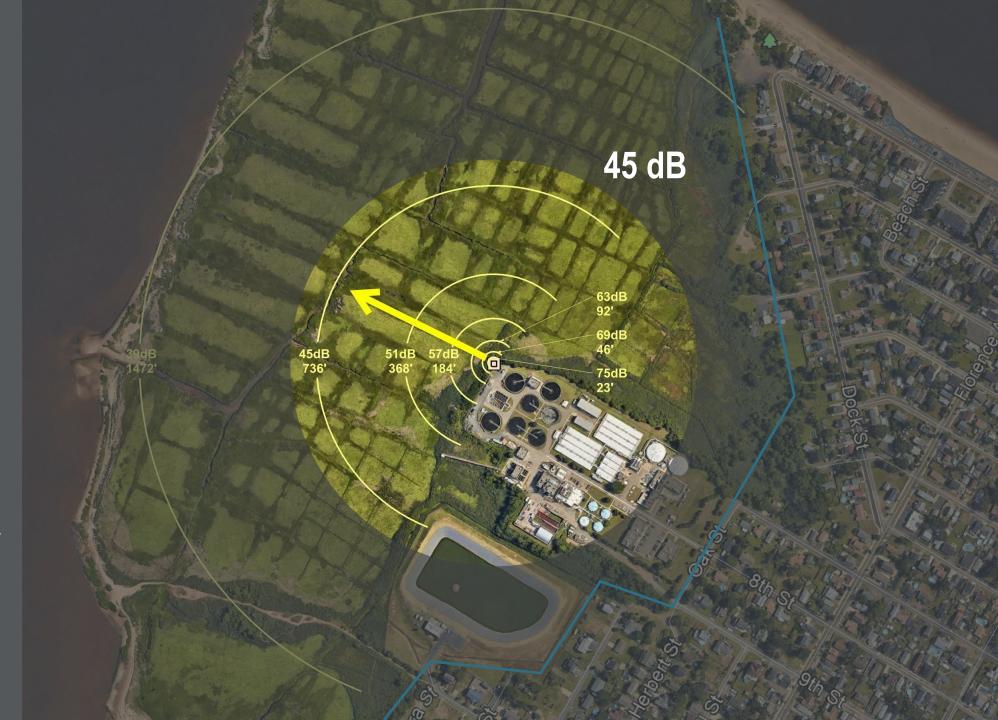


### AIR FLOW & NOISE



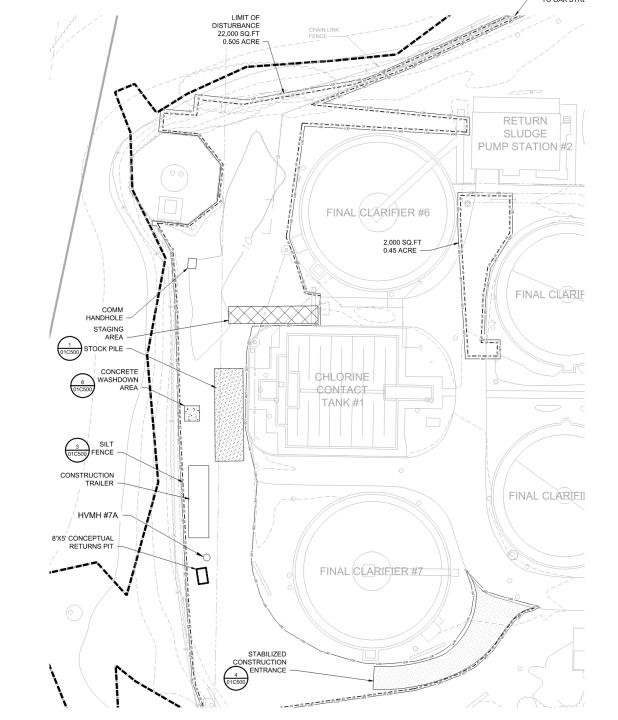
### NOISE

- Noise ordinance at property line
  - 65 decibels during daytime
  - 50 decibels during night
- Maintenance and testing completed during the day
- Exhaust points toward bay, away from residents



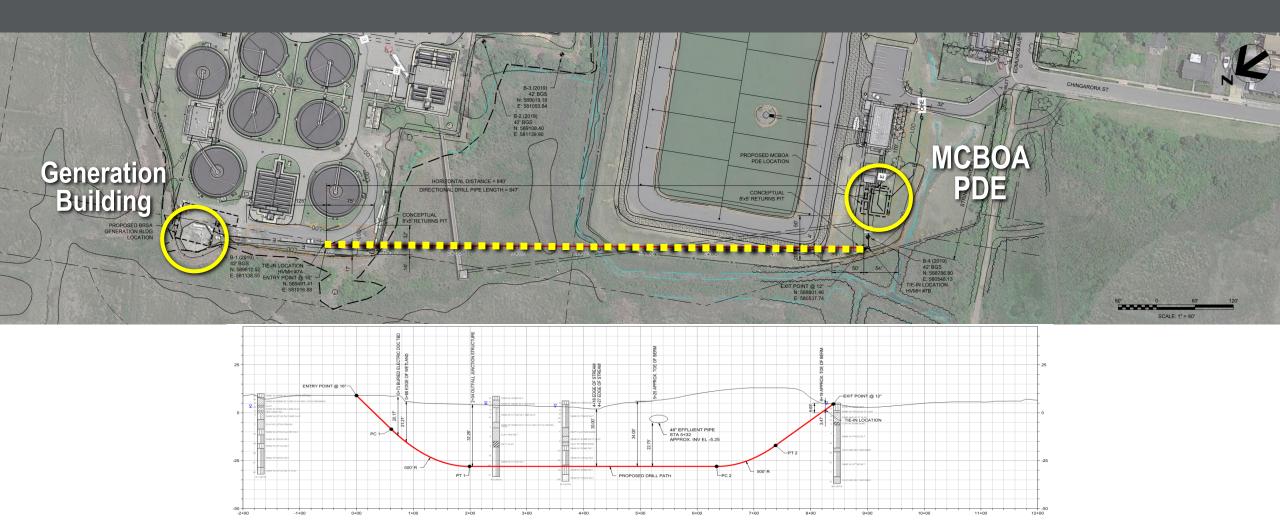
## GENERATION BUILDING EROSION CONTROL

- Construction Entrance
- Concrete Washdown
- Silt Fence
- Stockpile with silt fence



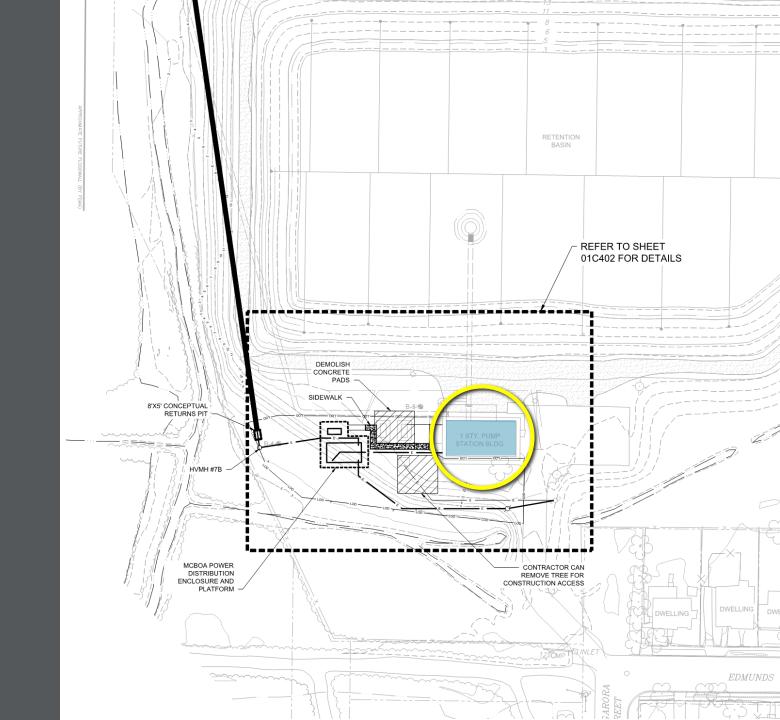
### HORIZONTAL DIRECTIONAL DRILL PLAN

 Providing conduit and power from Generation Building to MCBOA PDE, while not disturbing wetlands and retention pond



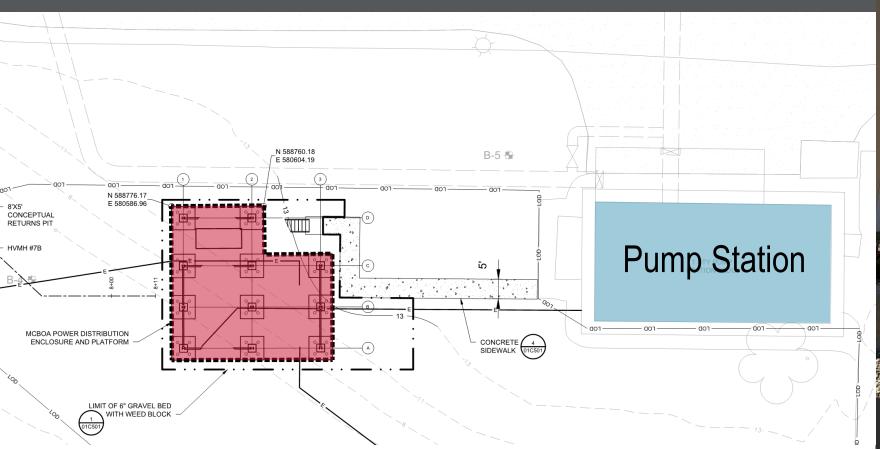
### MCBOA PUMP STATION

- Flood proofing existing pump station walls
- New PDE for electrical equipment
- Protected to 500-year flood level
- Noise level from PDE operation will comply with 50db at property line.



### MCBOA PDE

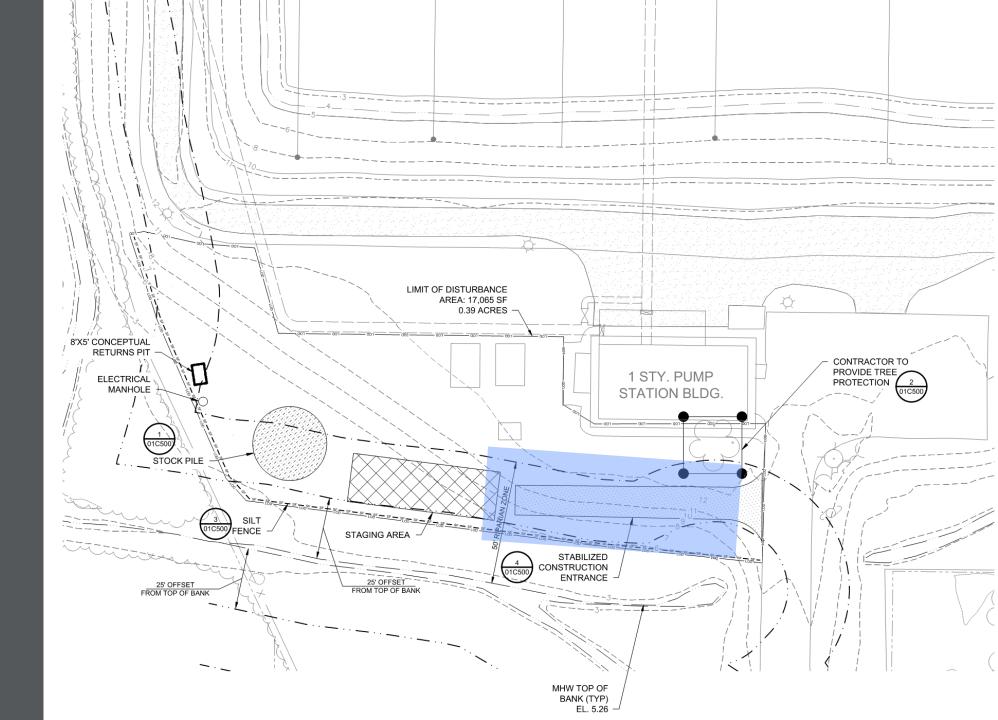
- PDE installed to the North West of the pump station
- Elevated platform supports existing diesel generator and transformer to operate MCBOA pump station.





### MCBOA EROSION CONTROLS

- Construction Entrance
- Silt Fence
- Stockpile with silt fence



# 9th Avenue construction access

### CONSTRUCTION SEQUENCE

- Access through 9th Avenue to BRSA facility
- Access along Edmunds Avenue for MCBOA facility
- Large Delivery Items only during working hours:
  - Generators mid 2022
  - Electrical Equipment mid 2022
  - MCBOA PDE early 2022
  - Concrete work early mid 2022
- Work Hours: 7:00 AM 3:30 PM
- Construction Activities:
  - Pile work expected late 2021 early 2022
- Construction Route:
  - Route 36 → Union Avenue → Front Street → Florence
    Avenue → 9th Street

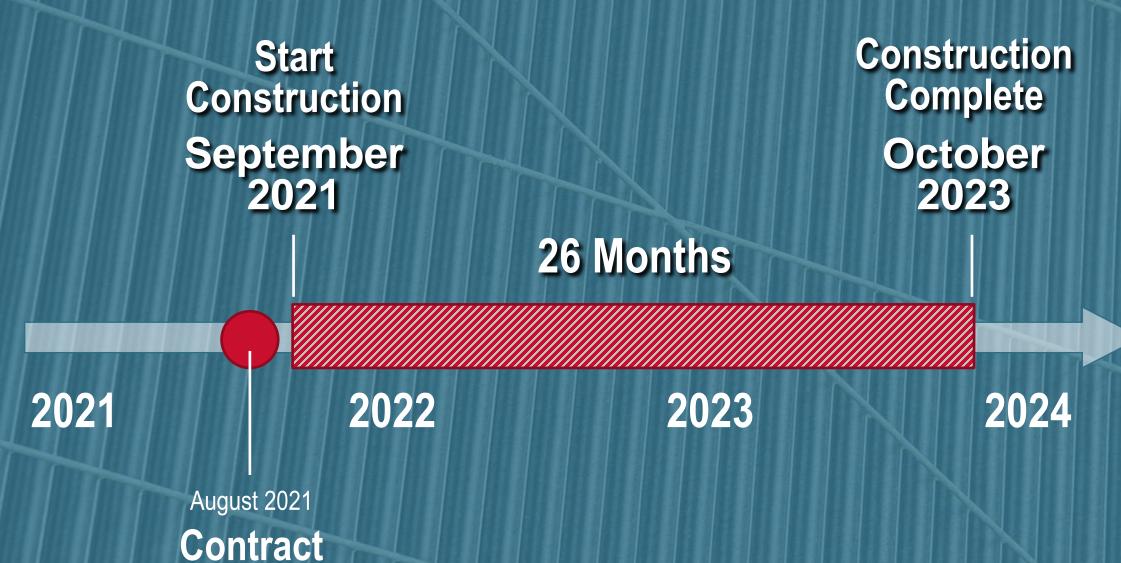
# **GENERATION OPERATIONS**

- Generators are planned to operate in Storm Anticipation Mode
  - Powering the facility 6-hours prior to storm and continue operation during loss of power
  - Monthly maintenance:30 minutes per monthper generator



### **ANTICIPATED SCHEDULE**

**Awarded** 



### Questions from Planning Board meeting on February 25, 2021

Q: Are the upper portions of the structure susceptible to high winds. Was there any regulation requiring studies to be performed?

- o A: We are not aware of any regulation requiring a study. However, the building is designed to meet wind forces per code.
- Q: Will you notify the residents when there is testing or running of the generators.
  - A: This is something that can be considered. However, BRSA currently tests their diesel generators and receives no complaints.
- Q: Local fire truck ladder is a maximum of 75 feet. Is this a problem.
  - A: A ladder would be needed for rescue of personnel who should not be above the 2<sup>nd</sup> floor elevation, which is 44 feet above ground.
- Q: Will NJNG be bringing in a new line and need to upgrade their system. Will new gas line be from main road.
  - o A: NJNG will be providing the new gas main. They need to replace the gas main on 7<sup>th</sup> avenue, and Poole Avenue.
- Q: Are you willing to conduct a public meeting? Coordinate with Business Administrator and Engineer.
  - o A: BRSA is willing to conduct a presentation for the public and make information available on the BRSA website.
- Q: Are you getting any Grant Funding?
  - A: Yes, FEMA is covering 90%.

Closing Comment: This is a great project and will be a benefit for the residents of Union Beach.

