

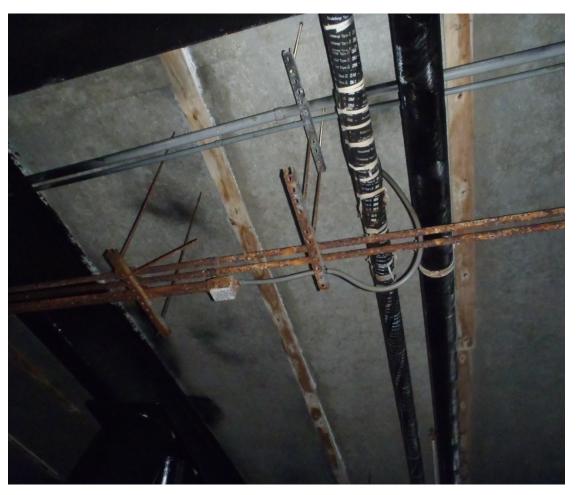
### Pier 69 Underdock Utility Replacement

- Underdock utilities are approximately 30 years of age -- well exceeded the typical 20-year service life
- 2019 underdock utility condition assessment revealed some utilities are in poor to very poor condition
- Utilities of concerns: electrical power, communications, sanitary sewer, potable water, and fire protection water lines
- Proactively replacing the end-of-life underdock utilities would allow scheduled replacement and avoid the need to perform emergency repairs at a higher cost and prolonged operational impacts

### **Existing Underdock Utilities**



**Corroded Electrical Equipment** 



**Corroded Electrical Conduits** 

## **Existing Underdock Utilities**



Galvanized Water Main



T91 Potable Water Pipe with Similar Age to P69 Pipe

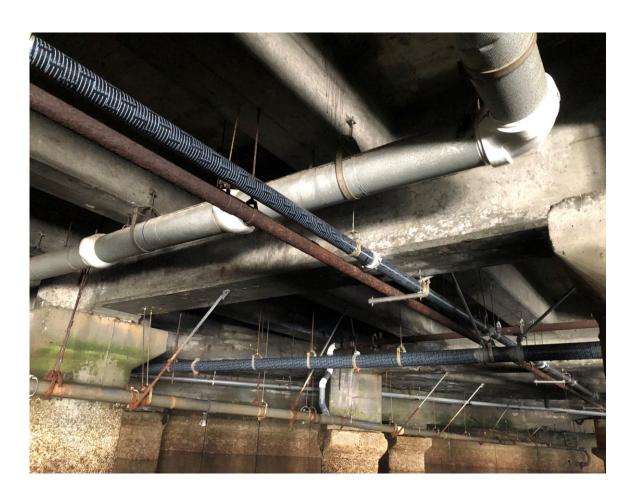
# **Existing Underdock Utilities**





**Corroded Sewer Lines and Hangers** 

# **Challenging Underdock Working Conditions**





Subject to Tides and Low Light Conditions

#### Schedule

- Commission Design Authorization
- Final Design and Permitting
- Construction Funding Authorization
- Construction

Q4,2020

Q4,2020 - Q2, 2021

Q2, 2021

Q3, 2021 - Q1/Q2, 2022