



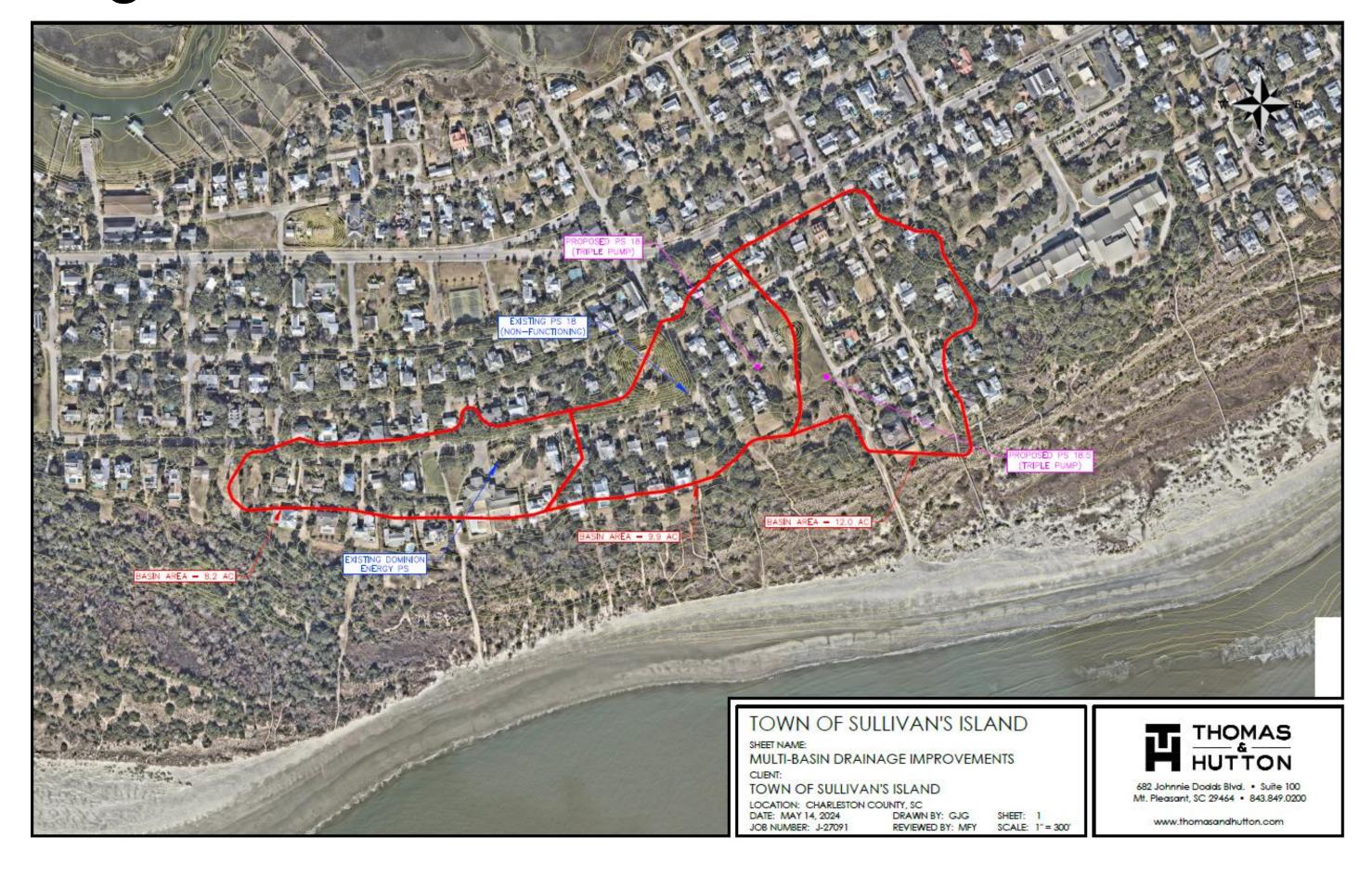


#### **Outline**

- Quick Overview of Proposed Drainage Project
- Study Area
- Drainage Basins
- Proposed Improvements
- Costs / FEMA Grant



## **Drainage Basins**





#### Why Flooding and Project Goals

## Flooding occurs because:

- The area is in a natural low (a bowl) with no outlet
- Existing stormwater pump station inoperable
- Existing drainage not designed to current standards (undersize infrastructure)

#### Goals

- Design to 10-year 24-hour hour storm event (6.6-inches)
- Provide protection against 100-year, 5-day precipitation (13.1-inches)
  - ✓ Ponding during this storm ponding is estimated to drain down within an hour
- Provide redundant power (standby generator) to provide uninterpreted operation in the event of power outage.

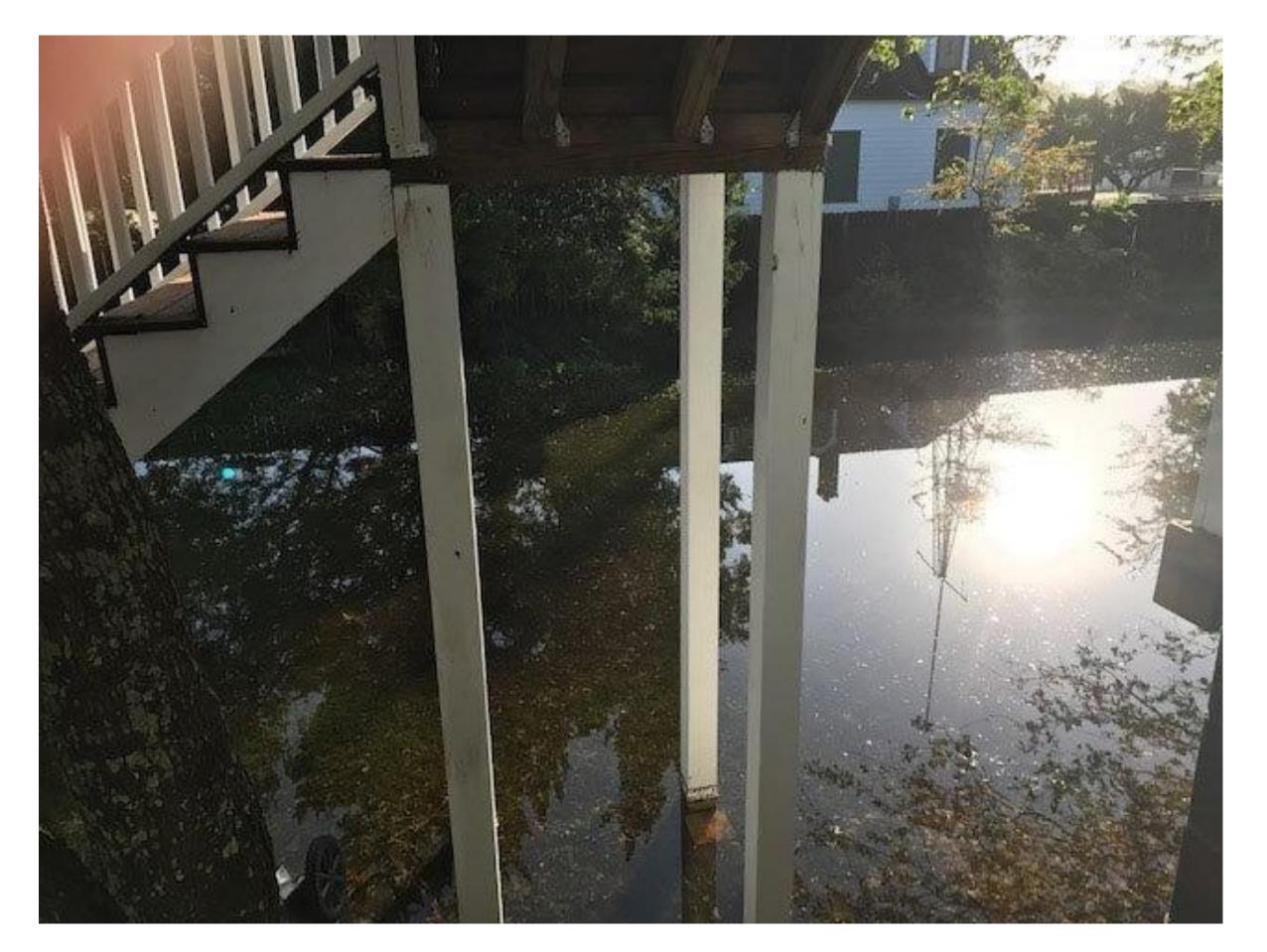




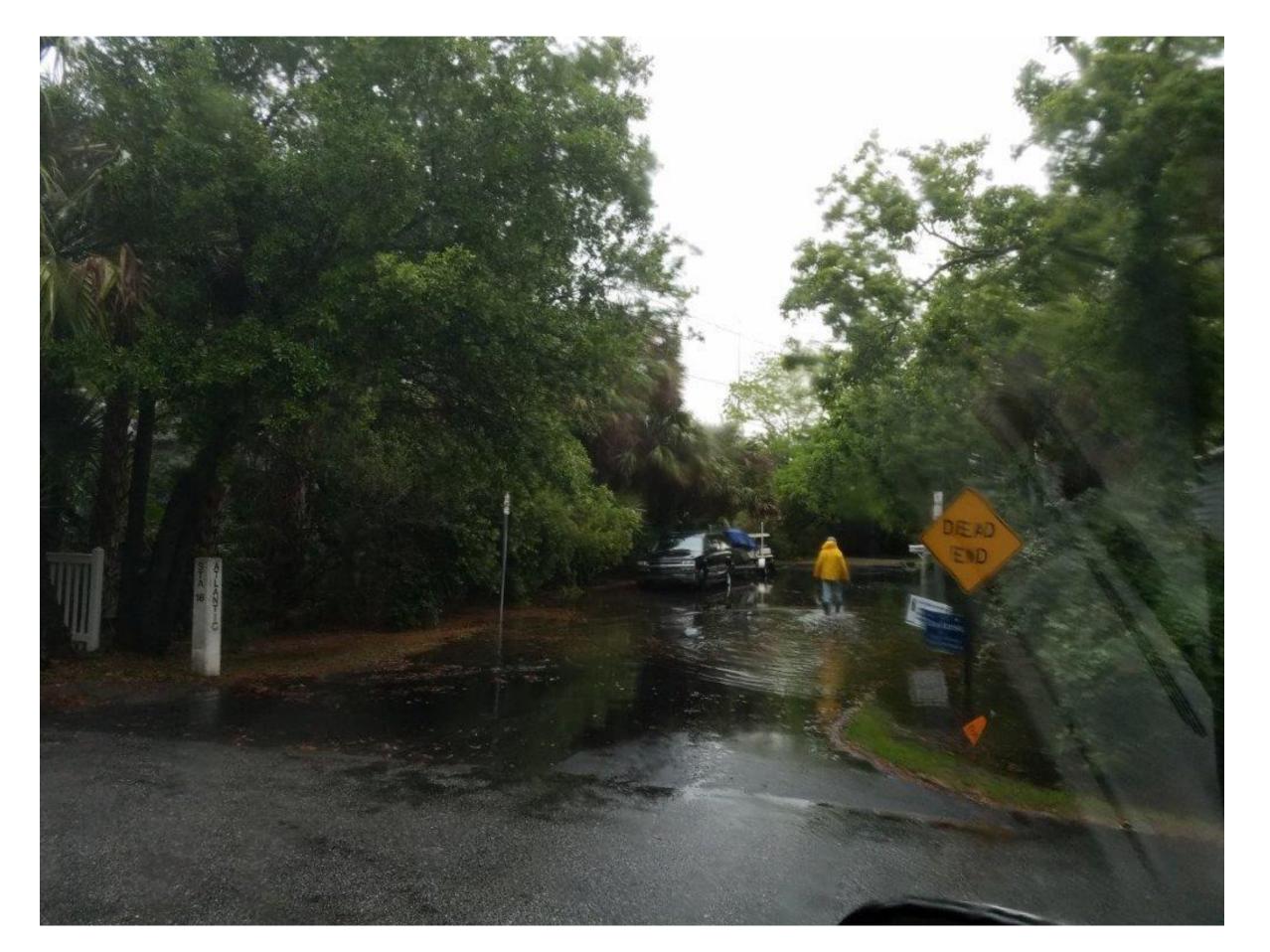












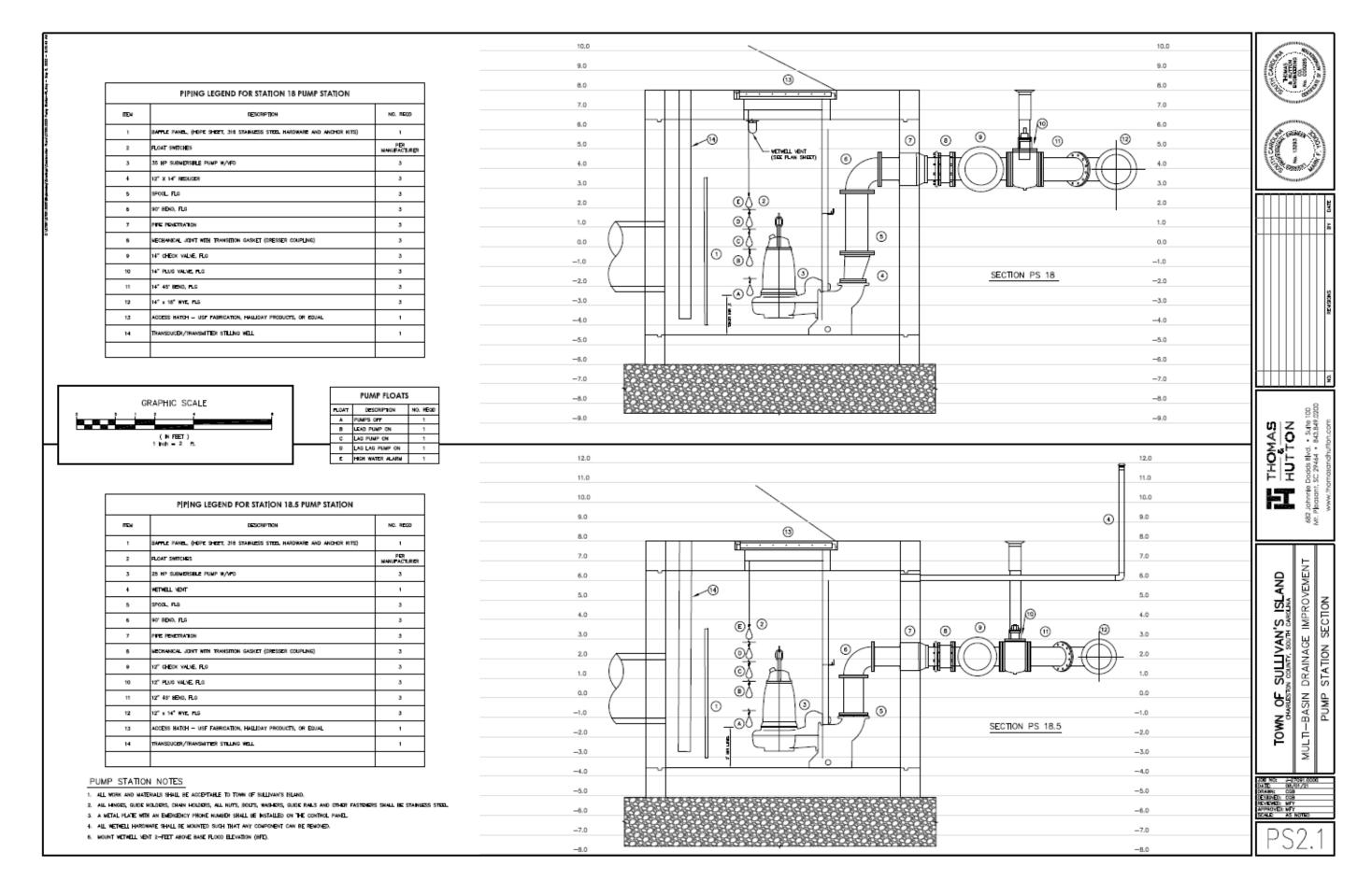


### **Proposed Improvements**



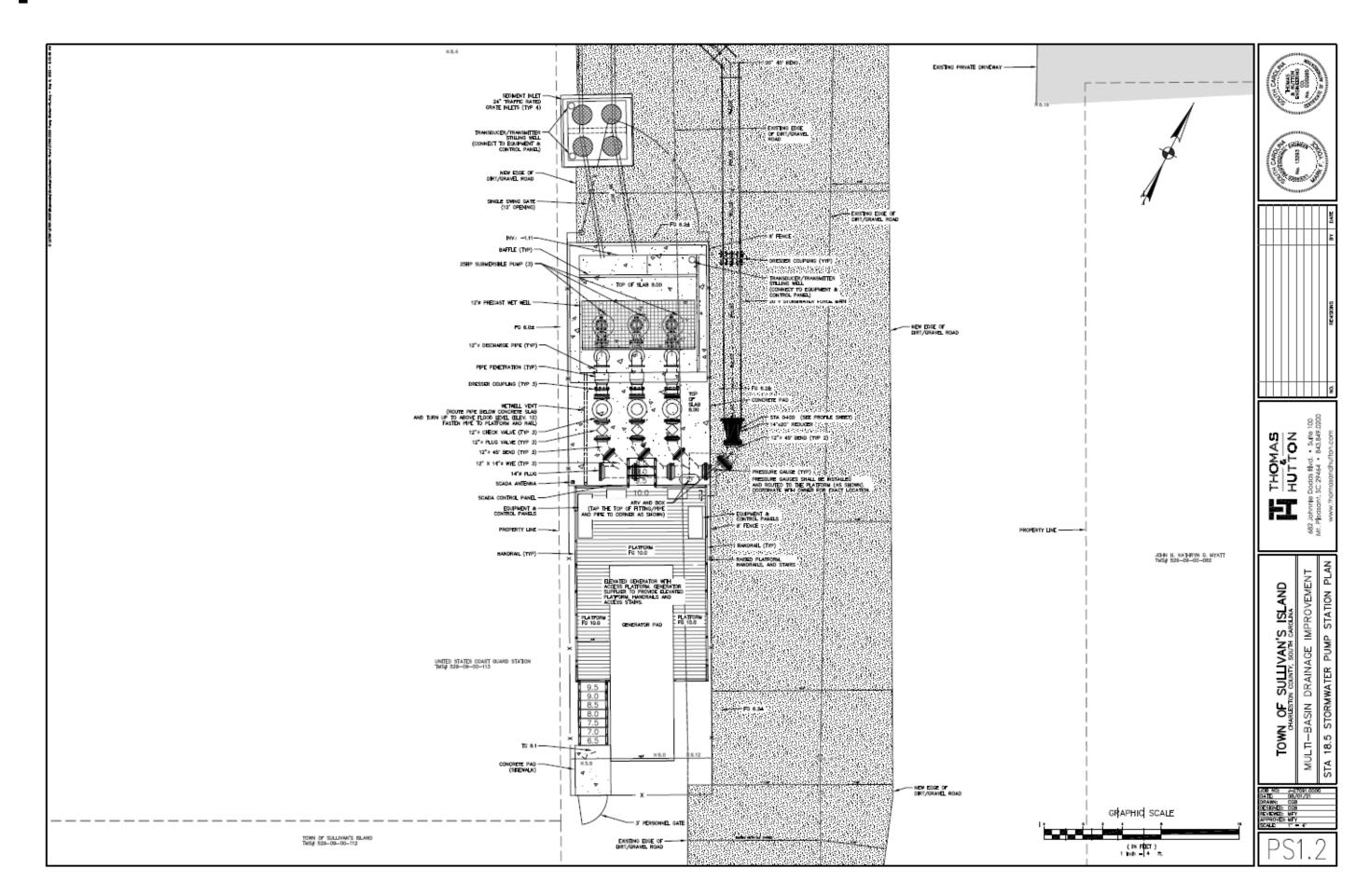


#### **Submersible Pump Station**



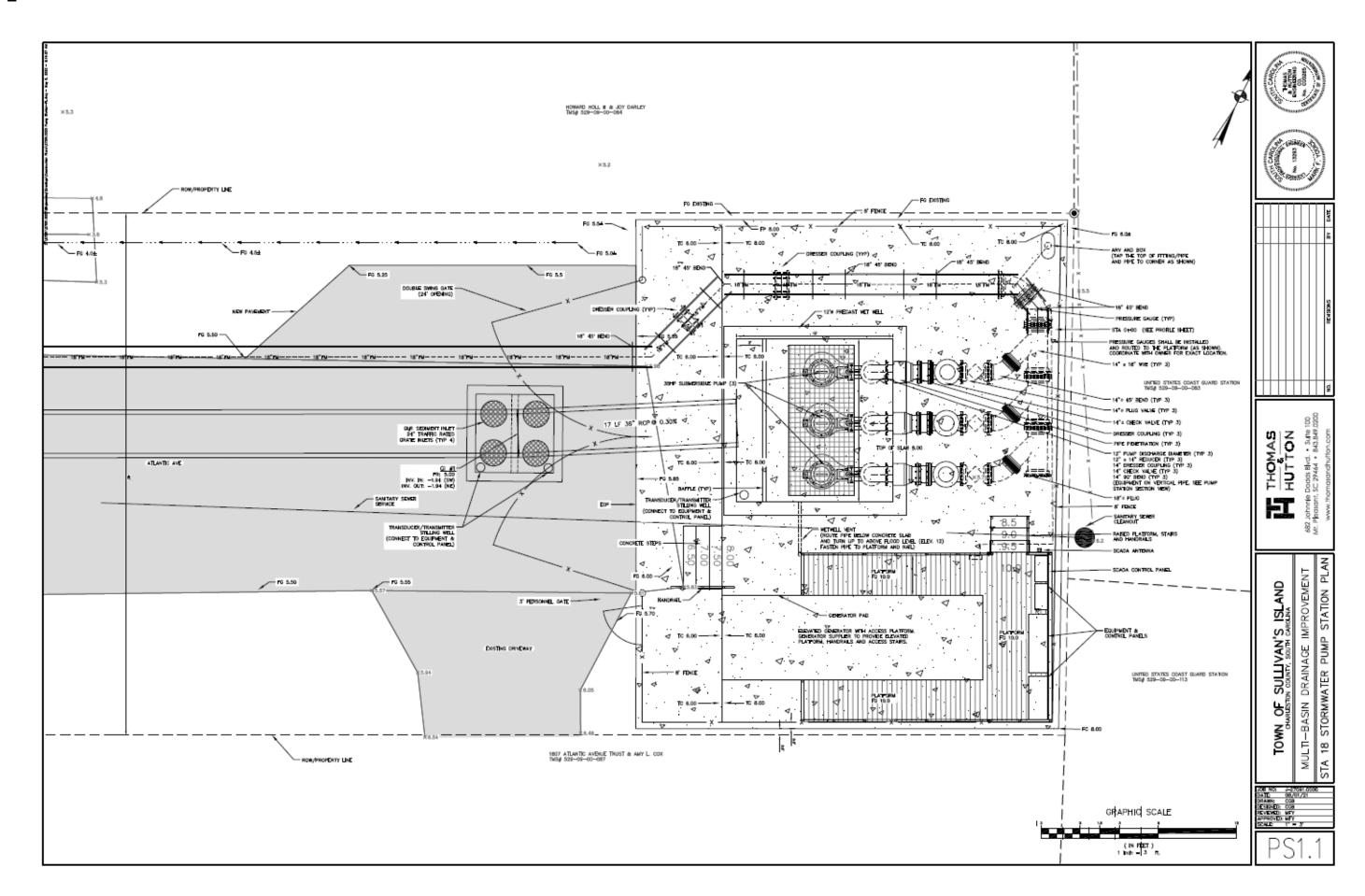


#### Pump Station on Sta 18 1/2





#### **Pump Station on Sta 18**





#### Highlights

- The 22-acre study area is supposed to be drained by an inoperable, existing stormwater pump station located at the intersection of Station 18 Street and Atlantic Avenue (within SCDOT ROW). The stormwater runoff collects at the intersection and the neighboring residences adjacent to the U.S. Coast Guard Lighthouse property. The only means of stormwater drainage in this area is infiltration.
- The proposed equipment are designed to be above with the latest FEMA Flood elevation and comply with Sullivan's Island Ordinance. Equipment will be at least one (1) foot above flood elevation.
- The new drainage system will handle the 10-year 24-hour storm event and will drain down the 100-year, 5-day rainfall in a short time (projected less than one hour).
- SCEMD is offering a 70% Federal Cost Share / 30% Non-Federal Cost Share currently (FEMA Grant) to assist with funding.

Project Total	\$5,829,214.00
70.000% Federal Share	\$4,080,449.80
30.00% Local Share	\$1,748,764.20



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# Questions & Answers



May 21, 2024



