

# **Town of Palm Beach Water Supply Feasibility Study**

Meeting  
November 2022

# Overview

- City of West Palm Beach – As Is
- City of West Palm Beach – Membrane Upgrade
- City of Lake Worth Beach
- Intracoastal Waterway Transmission Line
- Next Steps

# City of West Palm Beach – As Is

Source Water	Raw Water Supply	Treatment Process	Treatment Capacity
Surface Water	41.2 MGD	Conventional (PAC, Lime Softening, carbon and sand filtration, UV disinfection, chloramine disinfection)	47 MGD

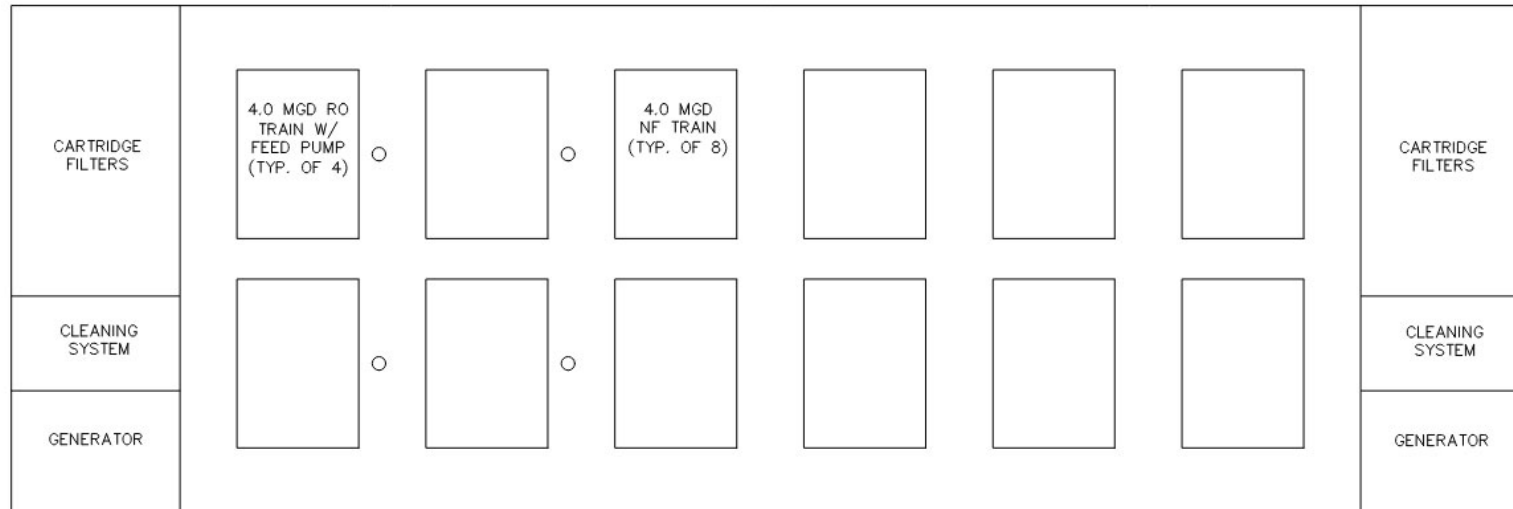


# City of West Palm Beach – Membrane Upgrade

Source Water	Raw Water Supply	Treatment Process	Treatment Capacity	Disposal Capacity Required
Surface Water	40 MGD	Nanofiltration (80% Recovery)	32 MGD	8 MGD
Floridan Aquifer	20 MGD	Brackish Water RO (80% Recovery)	16 MGD	4 MGD

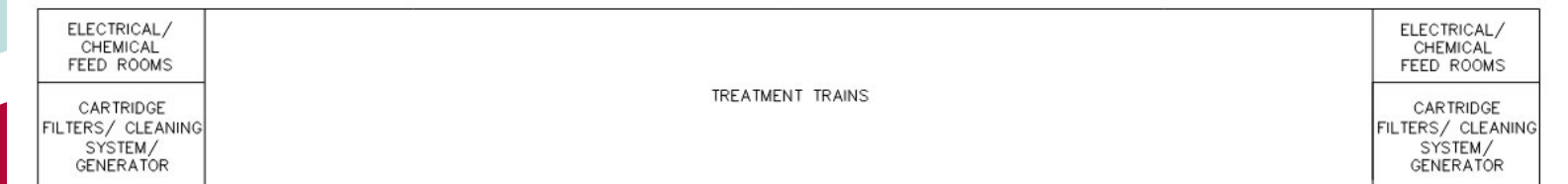


# City of West Palm Beach – Membrane Upgrade



FLOOR PLAN  
AS NOTED

FLOOR AREA = 20,000-25,000 SQFT



SECTION A - CEILING HEIGHT PROFILE  
AS NOTED



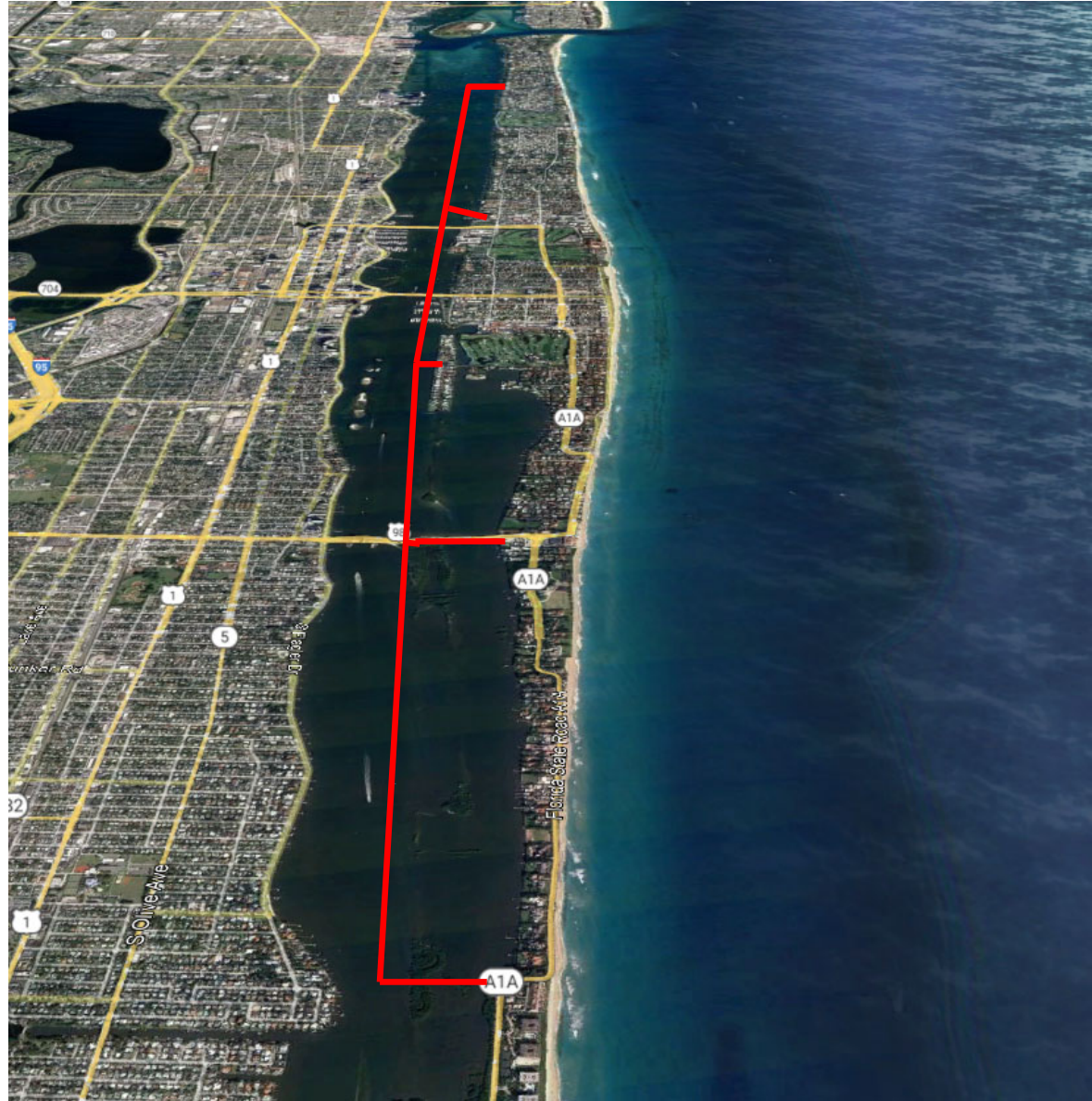
# City of Lake Worth Beach

Source Water	Raw Water Supply	Treatment Process	Treatment Capacity
Existing Capacity			
Surficial Aquifer	5.1 MGD	Conventional (Lime Softening and filtration)	5.1 MGD
Floridan Aquifer	6 MGD	Brackish Water RO (70% Recovery)	4.5 MGD
Future Capacity			
Surficial Aquifer	5.1 MGD	Nanofiltration (80% Recovery)	4.1 MGD
Floridan Aquifer	20 MGD	Brackish Water RO (75% Recovery)	15 MGD



# Intracoastal Waterway Transmission Line

- FDEP Coordination
- FDOT Coordination
- Risks



# Next Steps

- Public Workshop
- Further communication and plan refinement with the City of West Palm Beach
- Further communication and plan refinement with the City of Lake Worth Beach