



# Boca Chica Mooring Field

# Agenda

- Current Problem – Long-term Unmanaged Anchoring
- Benefits of Managed Mooring Fields
- Project Introduction
  - Mooring field area
  - Upland site
  - Mooring field management plan
- Additional rules and regulations (not currently in effect)
  - 90-day anchoring time limit
  - Anchoring limitation areas

# Long-term Unmanaged Anchoring Issues

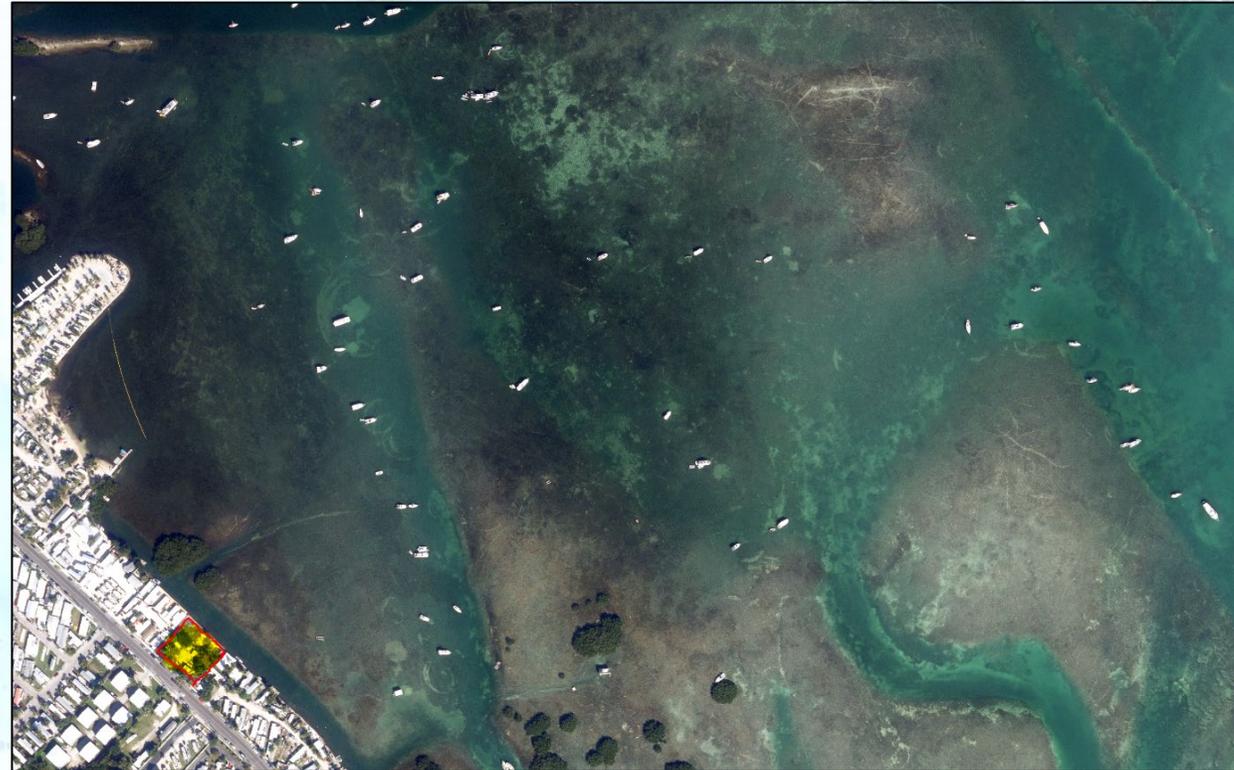
- Derelict vessels in Boca Chica Basin (2008-2023)
  - 124+ vessels removed
  - \$450,000+
- Seagrass damage
- Inappropriate ground tackle
- Marine debris



# Long-term Unmanaged Anchoring Issues

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- Solid waste management
- Inappropriate shoreside access
- Reduces access for other users

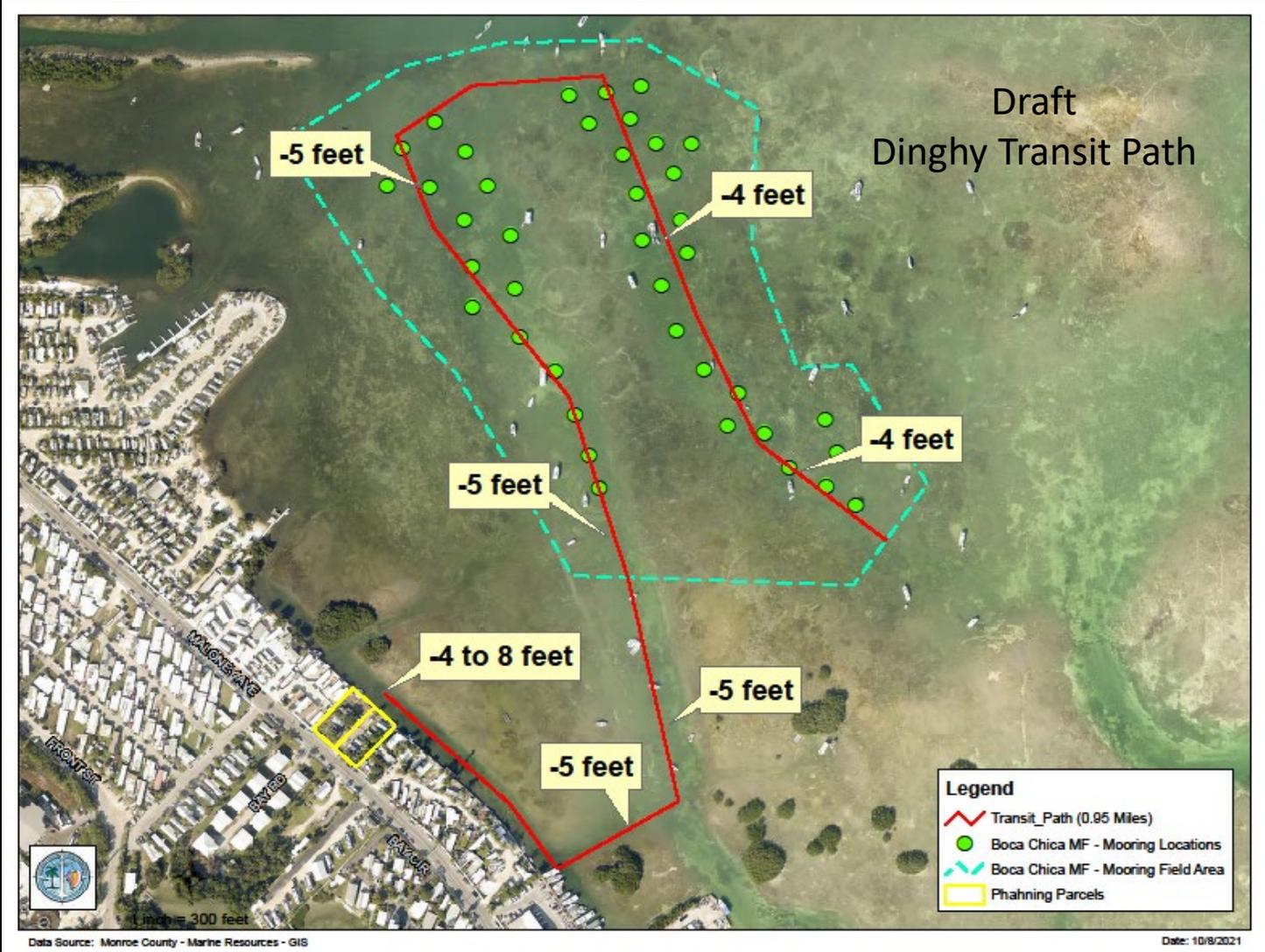
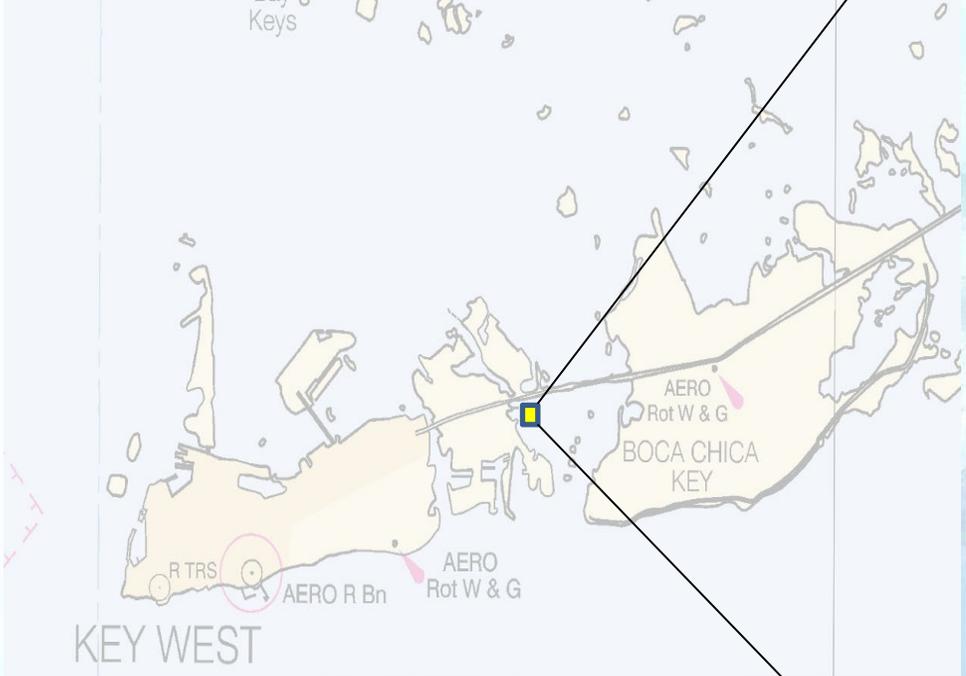


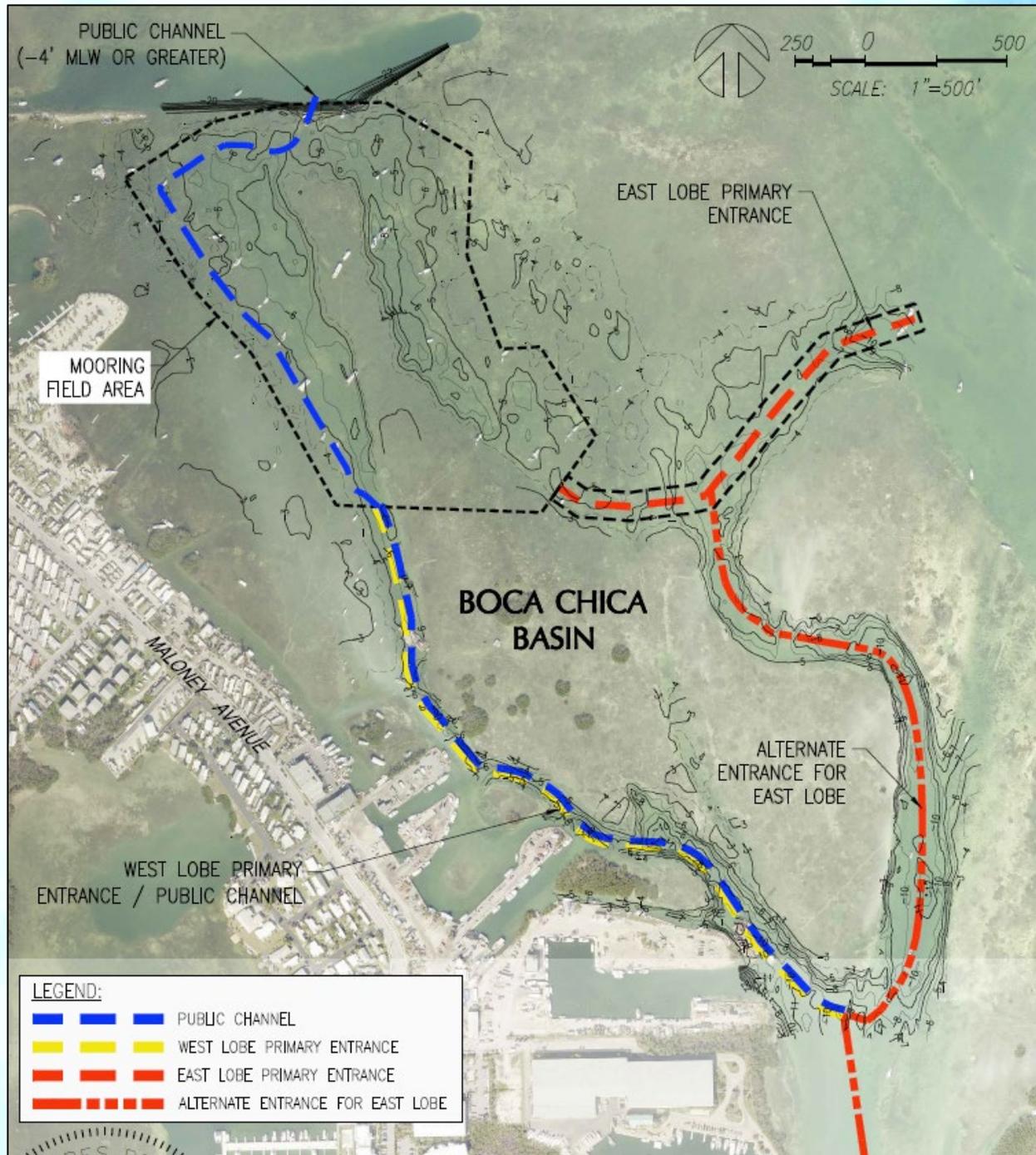
# Benefits of Managed Mooring Fields

- Vessel inspected regularly by dockmaster/staff for maintenance issue
  - Bilge is clear of fuel or oil
  - Vessel is capable of propulsion by motor or sail
  - Marine sanitation device in working condition
  - Waste regularly pumped out
  - Vessel is seaworthy
  - Vessel is properly moored
- Access to upland at appropriate location with security
- Upland site with appropriate solid waste capacity



# Boca Chica Mooring Field





# Draft Vessel Transit Paths

### LEGEND

- 30FT VESSEL (R = 50FT); 5-7FT MLLW
- ▨ NO MOORING/ANCHORING AREA

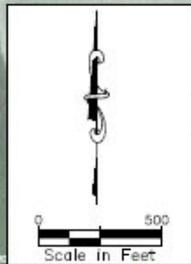
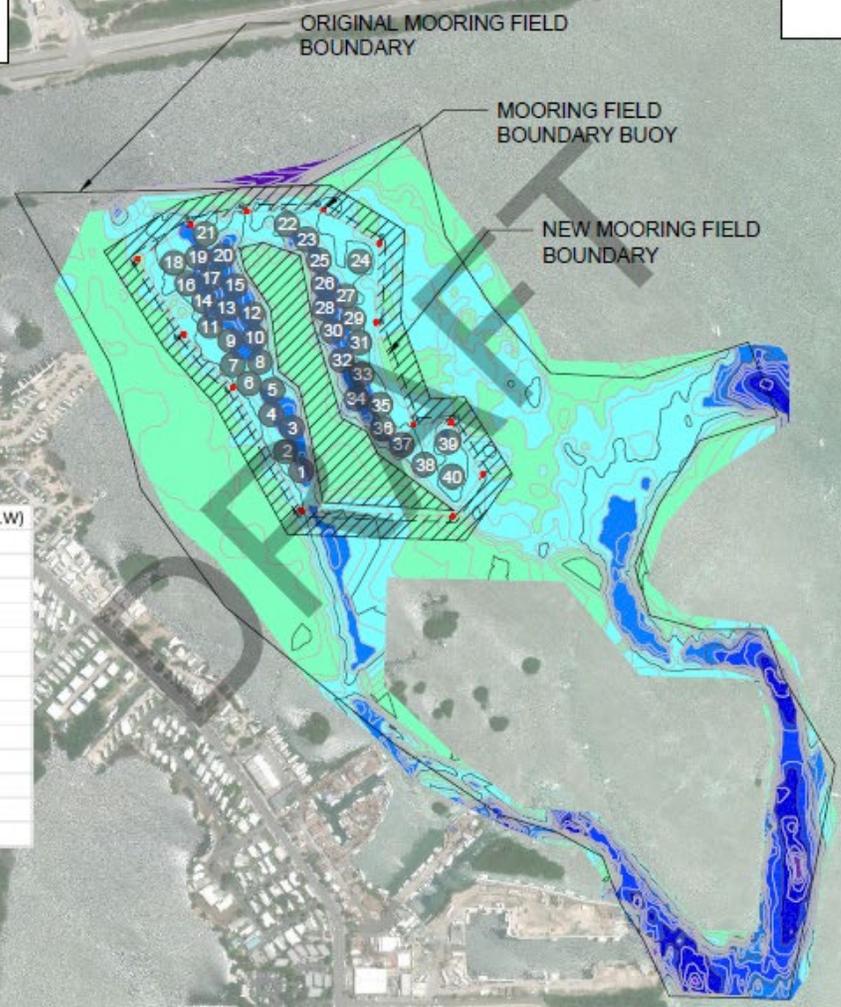
### Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	-30.000	-20.000	Dark Purple
2	-20.000	-12.000	Medium Purple
3	-12.000	-10.000	Dark Blue
4	-10.000	-8.000	Blue
5	-8.000	-6.000	Light Blue
6	-8.000	-4.000	Cyan
7	-4.000	-2.000	Light Green
8	-2.000	0.000	Yellow

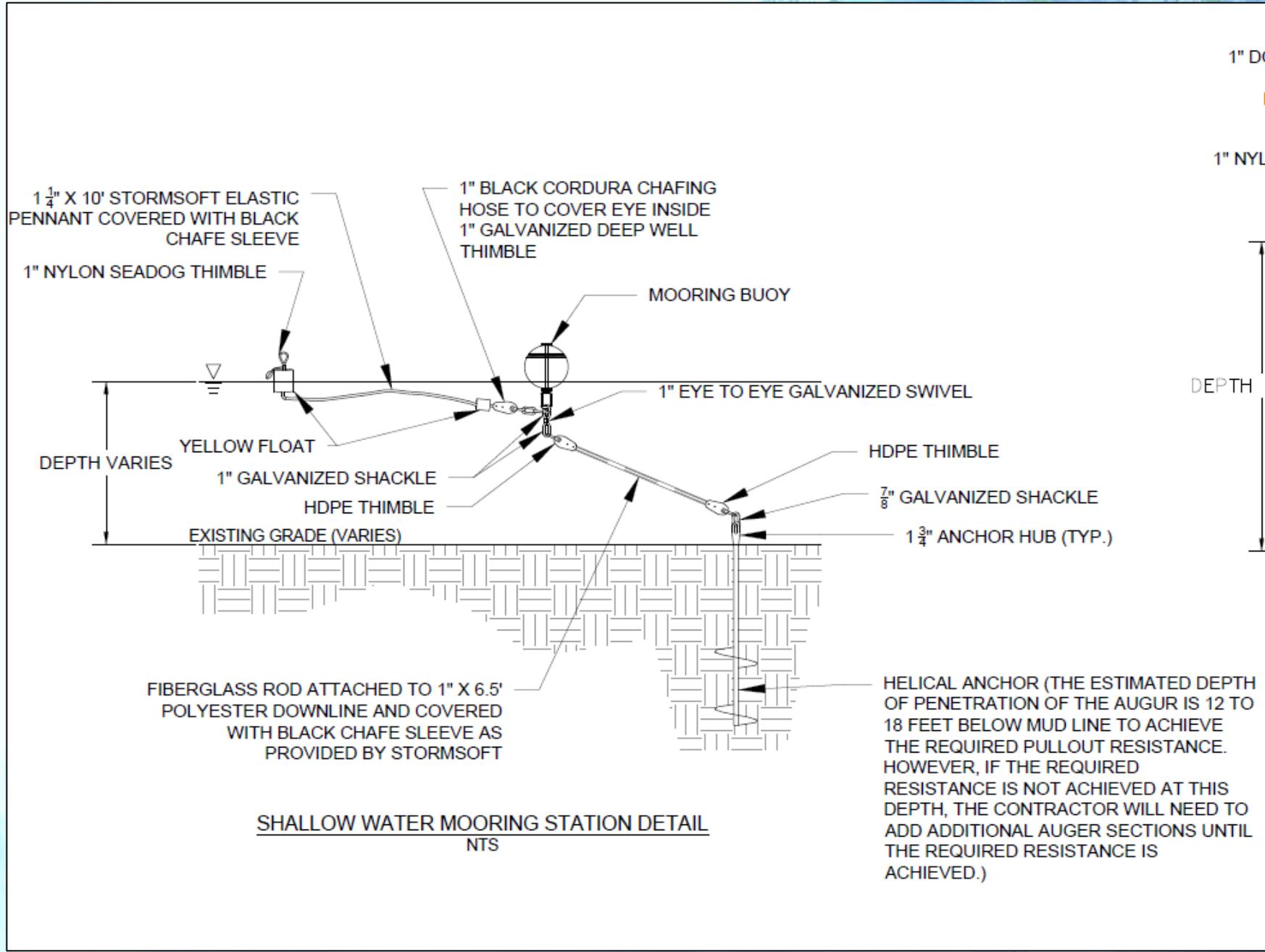
Point	Lat (DD MM.MMM)	Long (DD MM.MMM)	Depth (ft MLLW)
A	N24 34.381	W081 43.869	-3.9
B	N24 34.405	W081 43.830	-6
C	N24 34.414	W081 43.789	-4.8
D	N24 34.415	W081 43.732	-5.3
E	N24 34.393	W081 43.691	-4.4
F	N24 34.339	W081 43.693	-4.8
G	N24 34.270	W081 43.665	-4.8
H	N24 34.272	W081 43.637	-5.2
I	N24 34.237	W081 43.614	-4.3
J	N24 34.208	W081 43.636	-3.2
K	N24 34.211	W081 43.747	-4.8
L	N24 34.295	W081 43.798	-4.8
M	N24 34.331	W081 43.835	-4.8

- NOTES:
1. BASEMAP SOURCE: BING MAPS 2023
  2. FIELD SURVEY COMPLETED BY COASTAL SYSTEMS INTERNATIONAL, INC. ON FEB. 28, 2017
  3. ELEVATIONS ARE IN FEET, REFERENCED TO MEAN LOWER LOW WATER
  4. HORIZONTAL DATUM IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), IN U.S. SURVEY FEET

SLIP MIX	
VESSEL SIZE (FT)	NUMBER OF VESSELS
30	40



# Draft Mooring Field Layout



SHALLOW WATER MOORING STATION DETAIL  
NTS

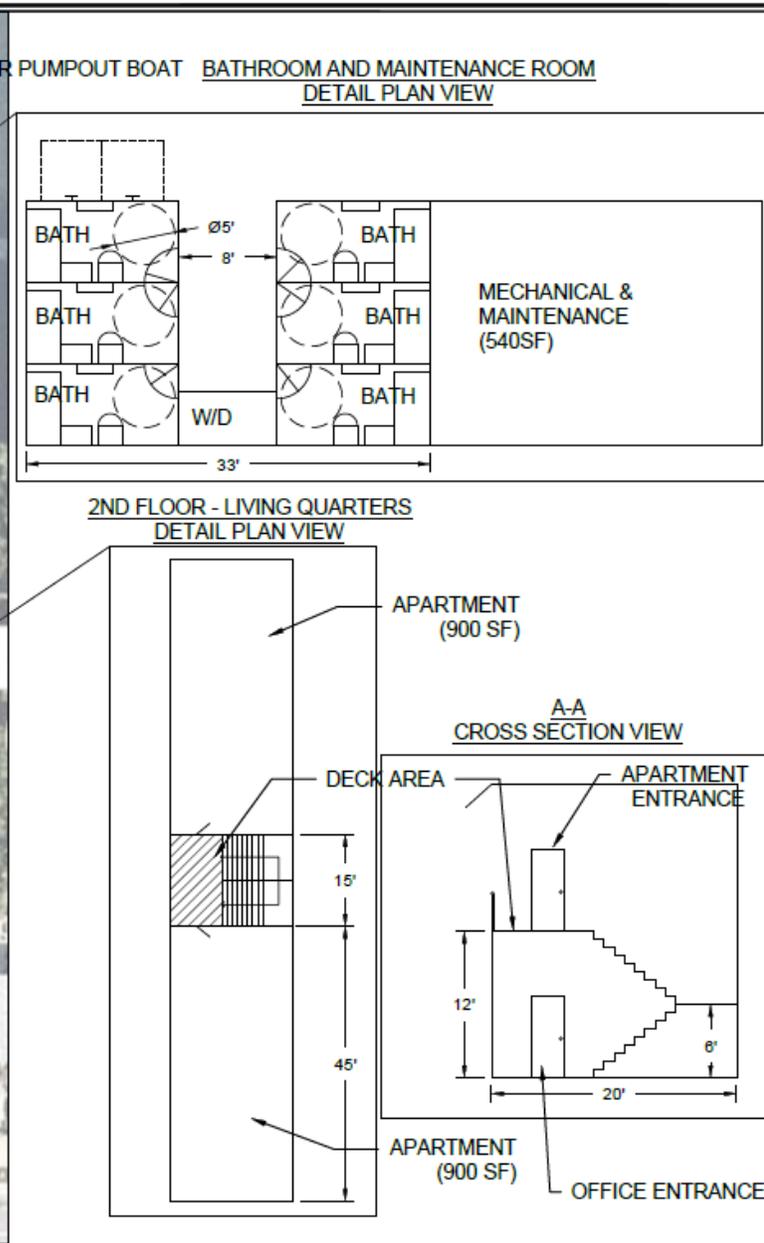
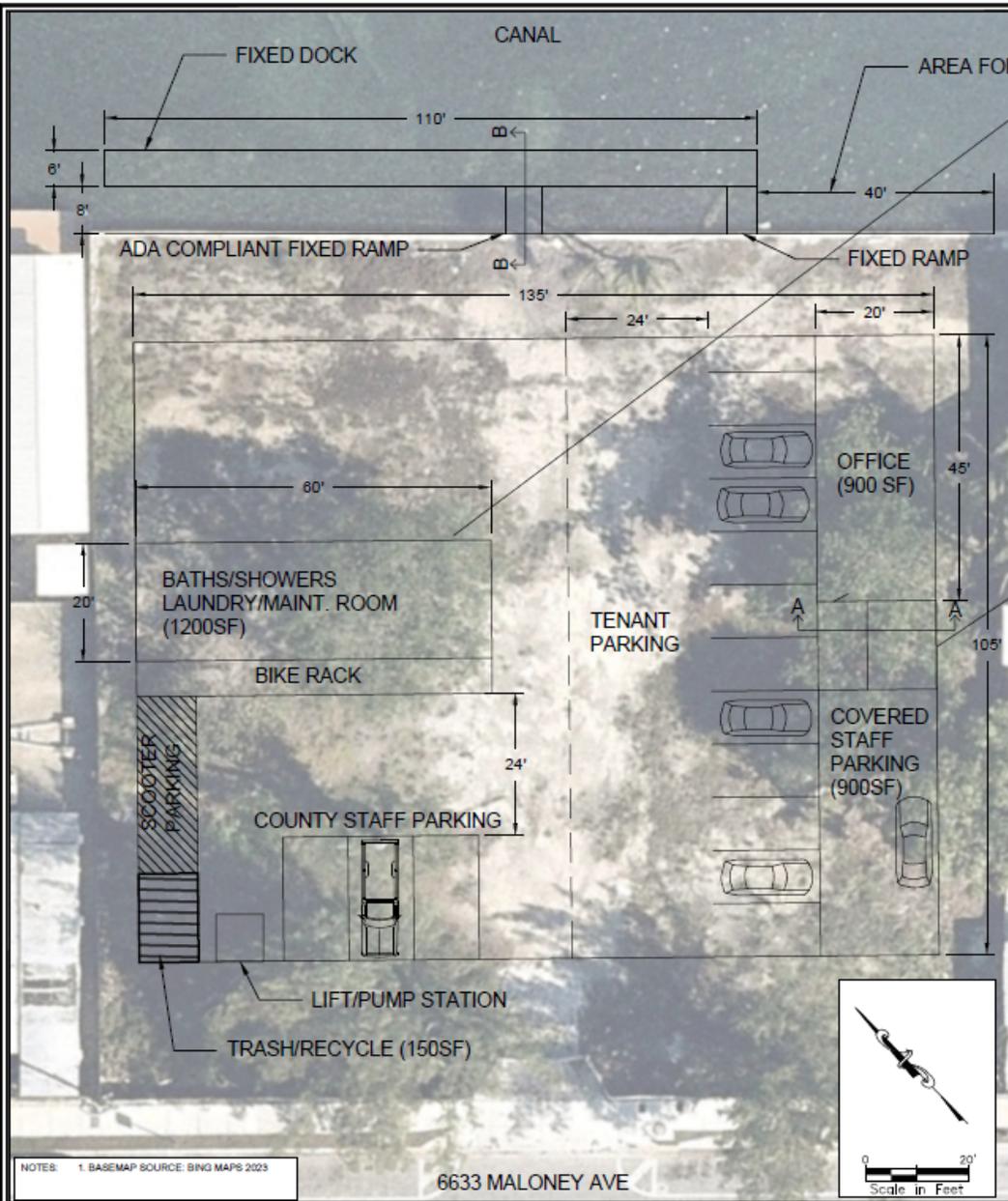
# Mooring System

# Shoreside Facility Design Elements

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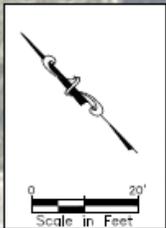
- Dockmaster's office
- Dockmaster's apartment
- Tenant restroom/shower facility
- Tenant laundry facility
- Solid waste/recycling
- Dinghy dockage = dock + mooring area cannot exceed 25% of waterway width
- Sewage offloading/collection pump station

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NOTES: 1. BASEMAP SOURCE: BING MAPS 2023

6633 MALONEY AVE



# Upland Facility Conceptual Plan

# Mooring Field Management

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- Two guiding documents, enforced by Harbormaster and law enforcement partners (if necessary):
  - Mooring Field Management Plan = required for mooring field permit
  - Tenant Agreement = required for each mooring field tenant
  - Mooring field will accommodate local liveboards and transient cruisers. Liveboard status cannot exceed 10 years.
- Requirements
  - Mooring field tenant agreement required
  - **Operational vessels only**
  - All vessels must have a Type III MSD (marine sanitation device) in compliance with Federal and State regulations
  - Weekly vessel pumpout provided by mobile pumpout vessel
  - Harbormaster authorized to conduct vessel inspections to ensure compliance with MSD regulations

# Mooring Field Management

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- Prohibitions: Violation of rules may result in ejection from premises
  - Subleasing vessel and/or mooring not allowed
  - No commercial activity
  - Illegal activities prohibited
  - Sewage (human and pet) discharge prohibited
  - Major repair/ maintenance of vessels (including boat hull scraping or painting)
  - Open fires on vessels
  - Disorderly, rowdy or boisterous conduct; excessive noise that disrupts quiet enjoyment of mooring field or shoreside support facility by others
  - Hanging laundry from vessel in public view

# Hurricanes

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- Vessels are allowed to remain
- Mooring systems are designed for wind and waves up to, at a minimum, tropical storm forces
- Owner is responsible for any and all damages to vessel, personal property, and other persons, vessels or property caused by their failure to remove vessel from mooring field
- Analysis by FWC Boating and Waterways indicates that vessels in mooring fields during Hurricane Ian fared **significantly** better than those at anchor

# Anchoring Limitation Area in Monroe County: **(327.4108 FS)**

- 90-day anchoring time limit in Monroe County if vessel is within 10 linear nautical miles of a public mooring field or designated anchoring area
  - Vessel must pull anchor and be moved from its location using the vessel's propulsion system and be re-anchored in a new location. The new location must be:
    - No less than one-half linear nautical mile from the vessel's starting location **OR** in a different designated anchoring area.
    - A vessel may not be re-anchored in its originating location for at least 90 days after relocating.
- Does not apply to vessels on permitted moorings
- **Not effective until 100** new moorings within 1 mile of Key West Bight
- Penalty = non-criminal infraction (\$50→\$100→\$250)
  - After 3<sup>rd</sup> violation in 12 months = vessel is a '**public nuisance**' and can be removed/destroyed

# FWC's Designated Anchoring Limitation Areas

