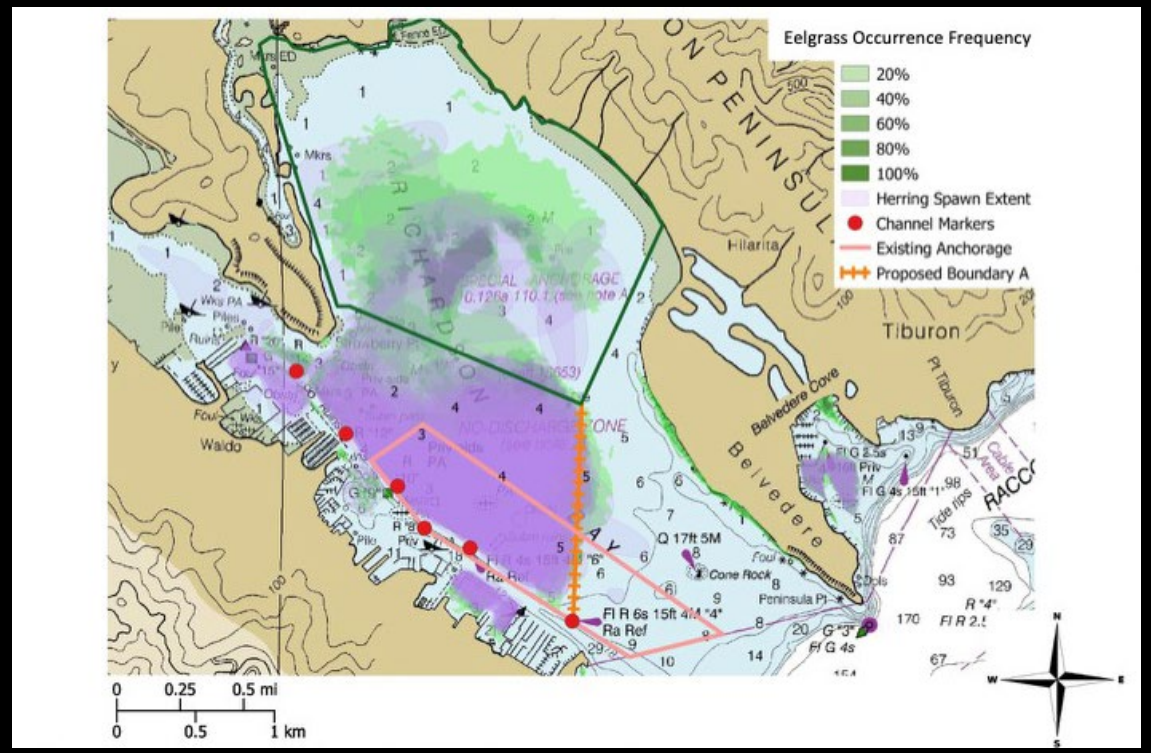
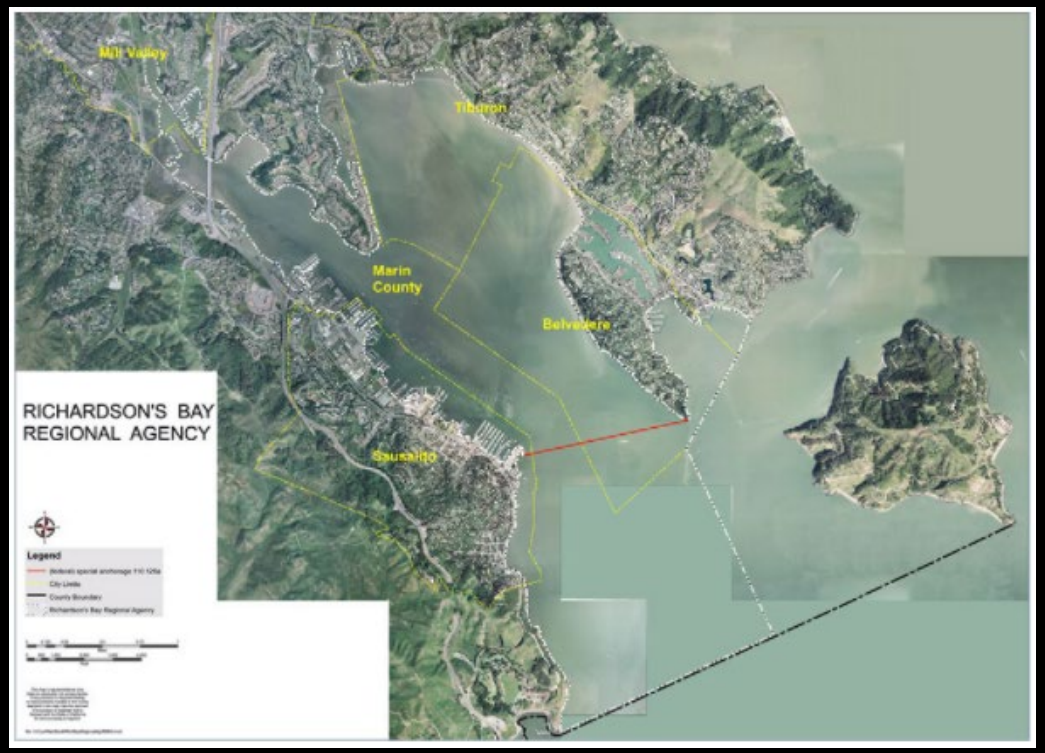
Richardson's Bay Mooring Field

Layout Alternatives

April 14, 2022

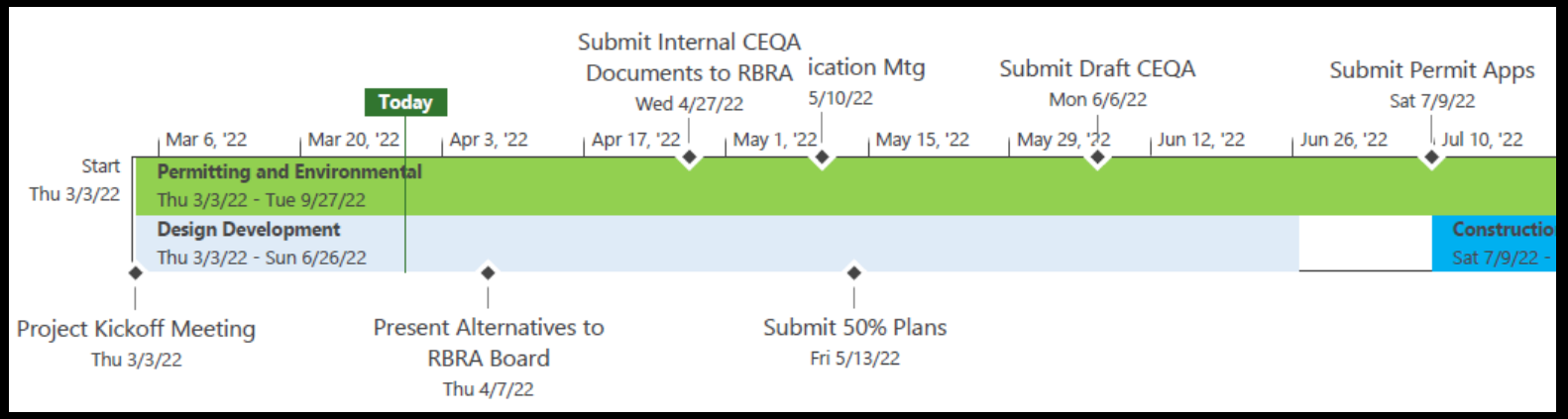
→ Project Overview

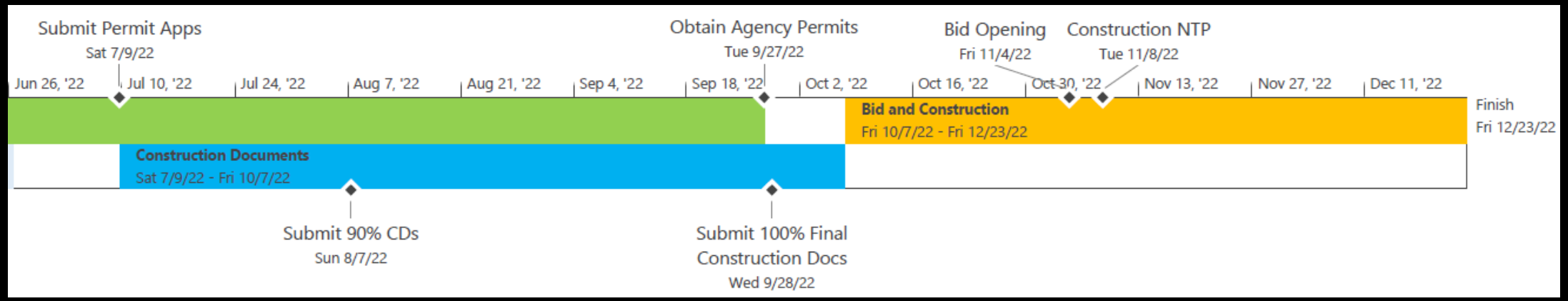




- August 2021, the RBRA entered into a Settlement Agreement (SA) with the Bay Conservation and Development Commission (BCDC)
- 3 mooring plan alternatives, 15-20 vessel moorings, various system type alternatives

→ Project Schedule

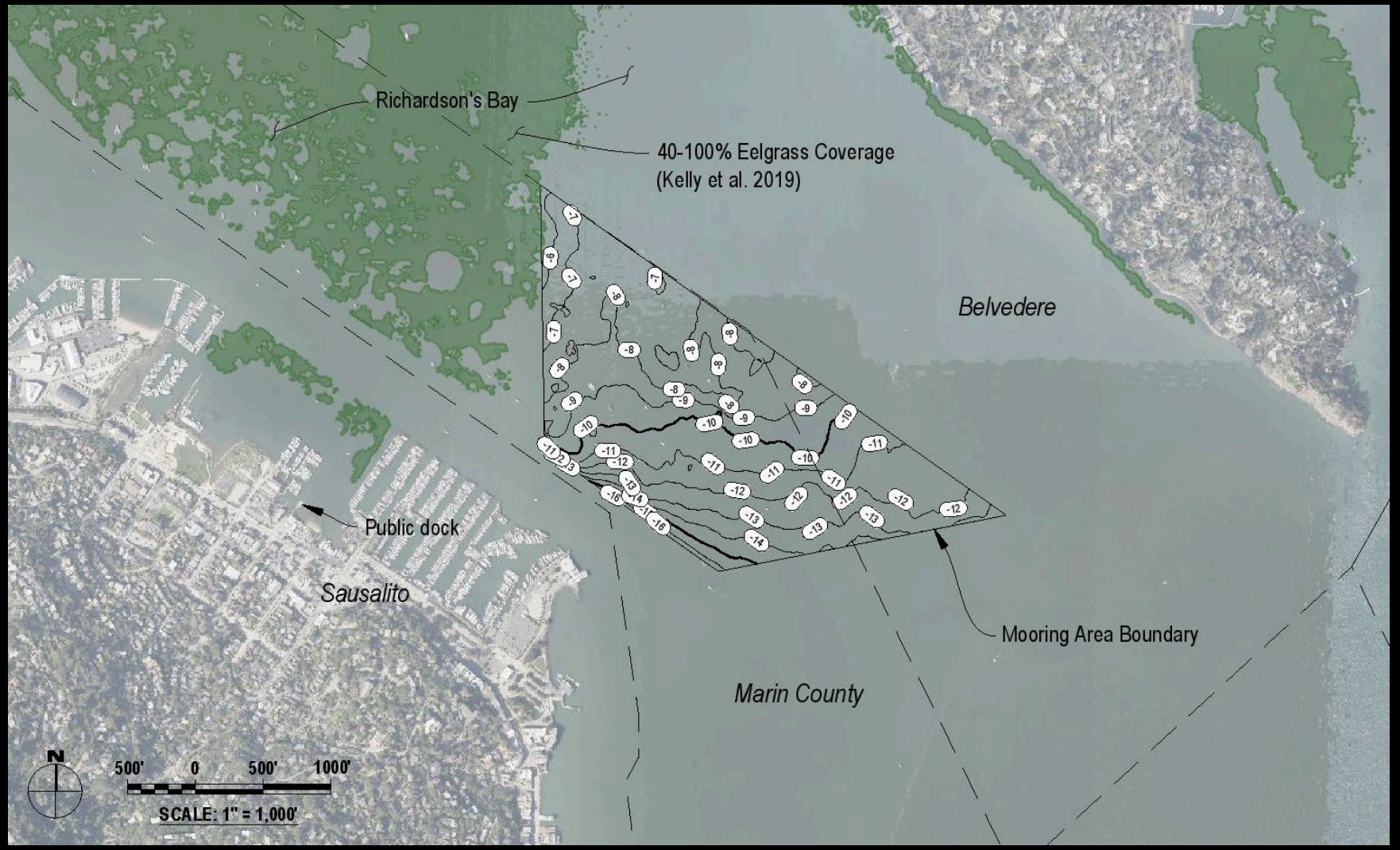




- Permitting/environmental efforts likely critical path for project
- Mooring installation before end of the year

→ Alternatives Development

- 3 mooring field layout alternatives presented within Mooring Area Boundary
- Determine a preferred alternative for design development
  - Preferred alternative to be carried through CEQA / permitting
  - Preferred alternative refined for second (May) RBRA meeting



→ Alternatives Development

Mooring Design Parameters (125’ Radius Mooring)

Conventional Mooring

- Maximum water depth: 13 feet
- Scope: 4:1 (conventional moorings)
- Pendant Length: 10 feet
- Maximum boat length: 65 feet
- Buffer within mooring circle varies depending on vessel size

Conservation Mooring

- Maximum water depth: 13 feet
- Scope: 2:1 (conservation moorings)
- Pendant Length: 10 feet
- Maximum boat length: 65 feet
- ~20 foot buffer within mooring circle for 65 foot vessel, varies for smaller vessels depending on size

→ Alternatives Development

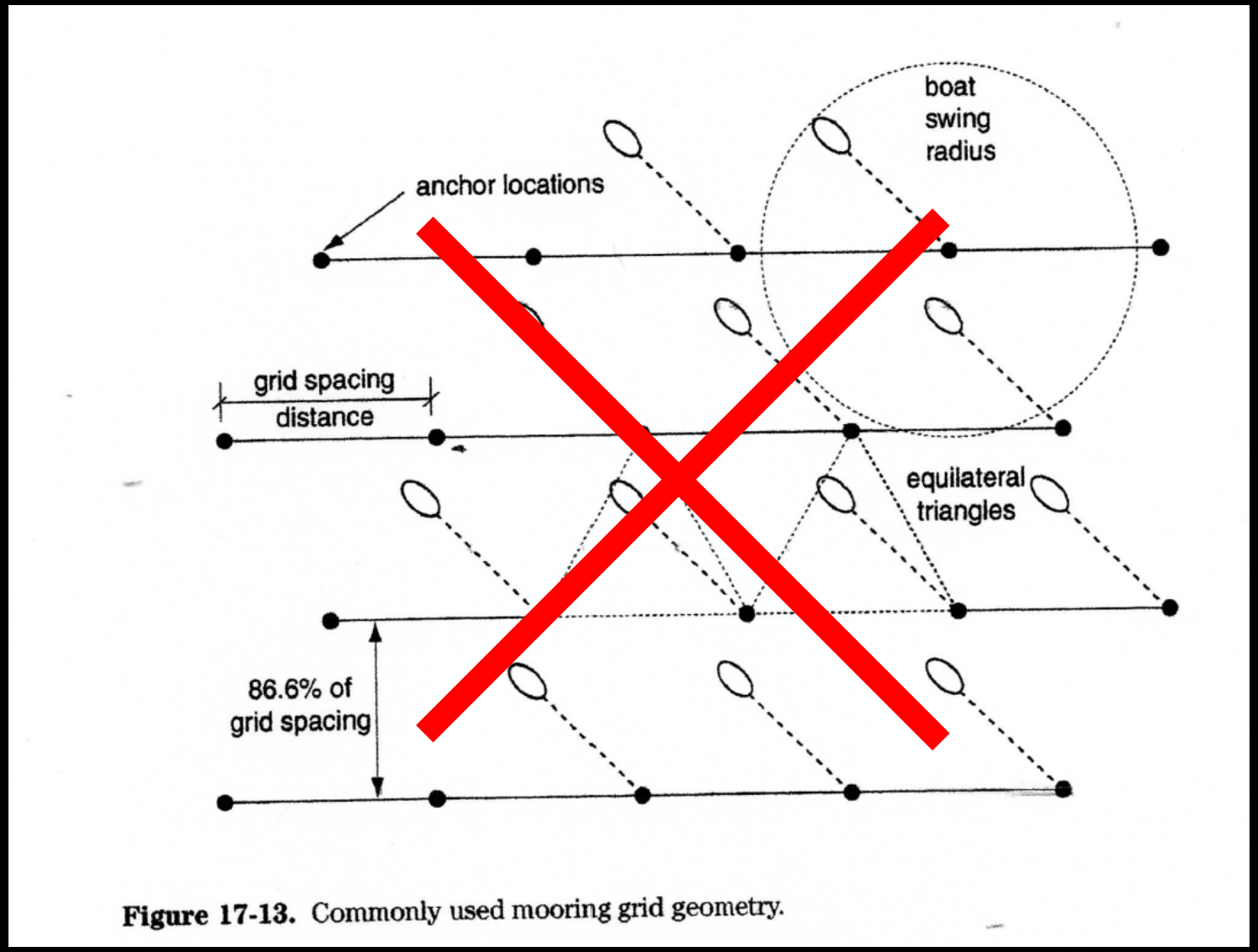
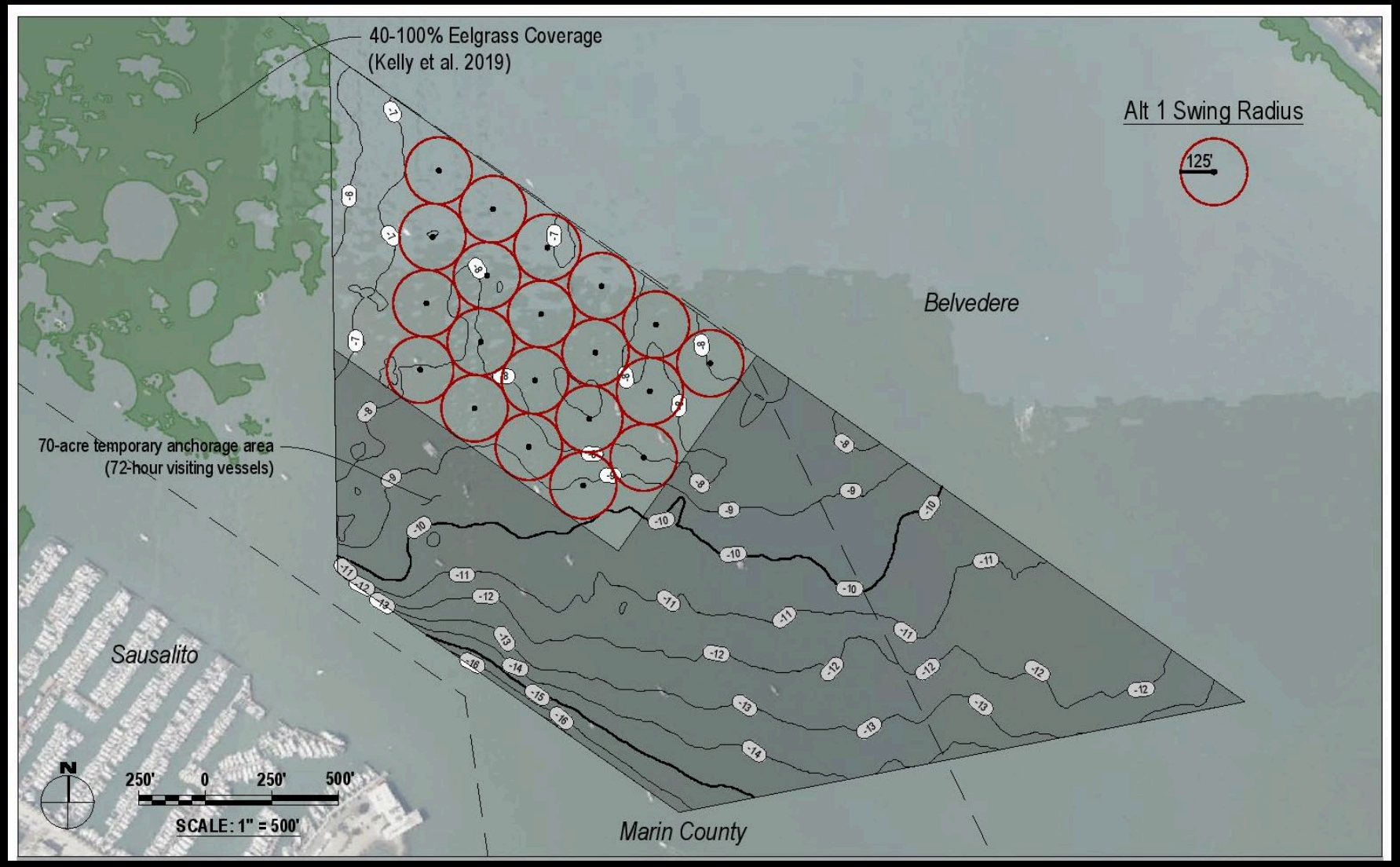
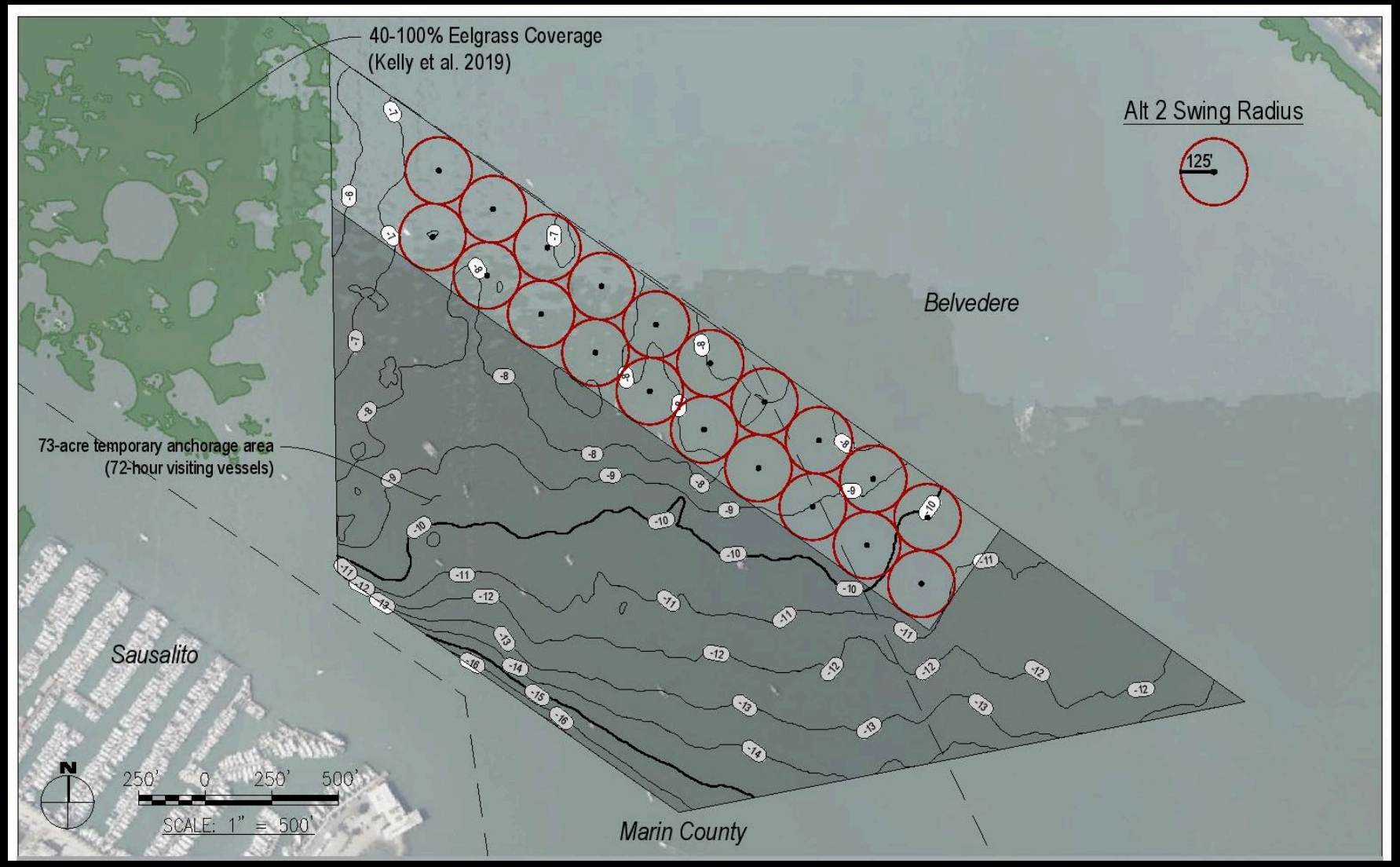


Figure 17-13. Commonly used mooring grid geometry.

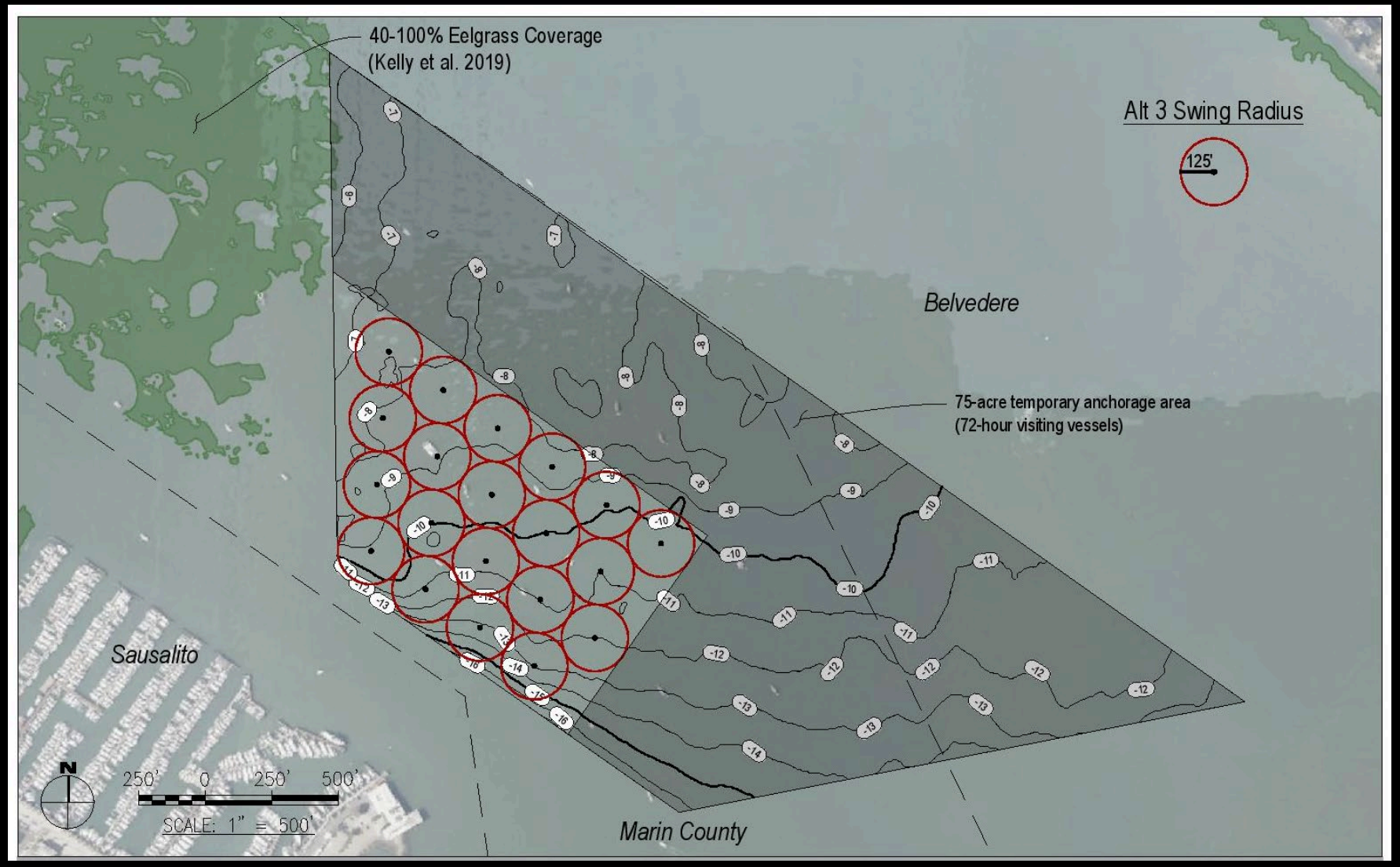
→ Layout Alternative 1



→ Layout Alternative 2

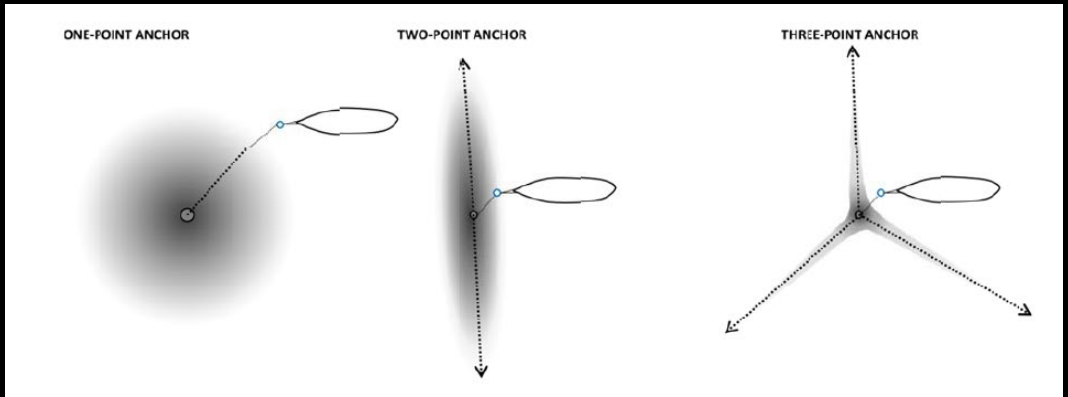


→ Layout Alternative 3



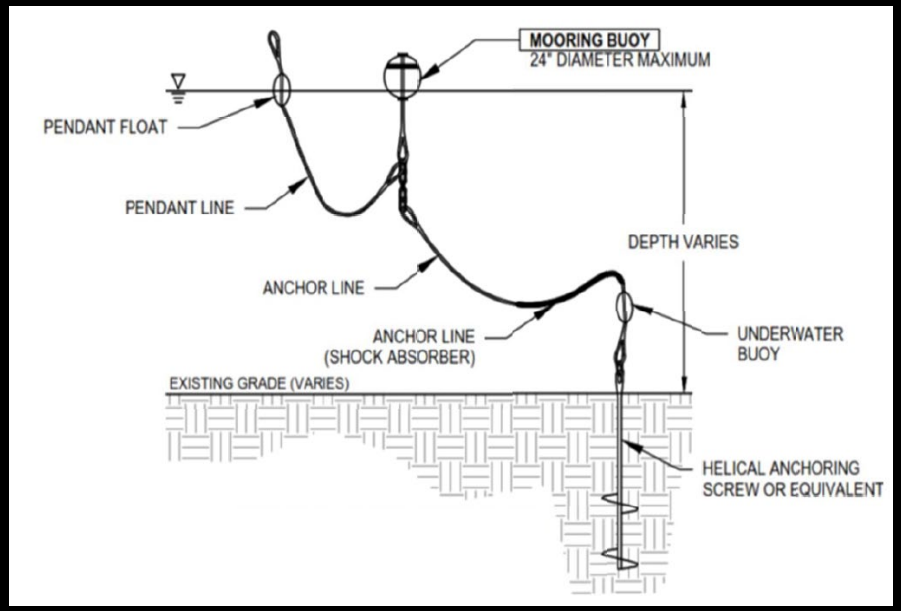
→Mooring System Alternatives

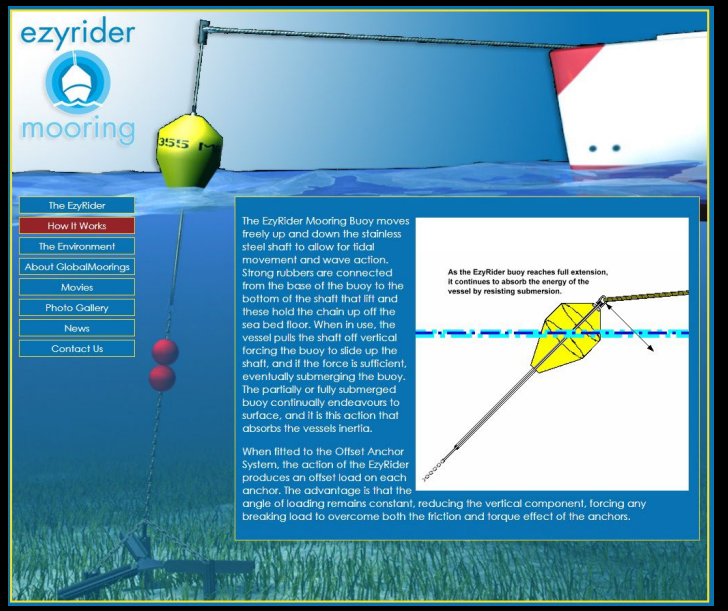
Conventional



- Conventional mooring
  - One-, two-, and three-point anchors
- “Conservation” mooring
  - Various manufacturers: Seaflex, EzyRider, Eco-mooring, StormSoft, etc

“Conservation”





→ Permitting and Environmental Review

1. Prepare CEQA Initial Study/Mitigated Negative Declaration

2. Obtain all required Permits and Approvals:

   - U.S. Coast Guard – *Private Aids to Navigation Permit*
   - U.S. Army Corps of Engineers – *Nationwide Permit 10* or *Letter of Permission*
   - Regional Water Quality Control Board - *Section 401 Water Quality Certification* or *Waste Discharge Requirements*
   - County of Marin – RBRA to Obtain Lease

→Next Steps

- May RBRA Meeting – Present Preferred Alternative Layout Refined
- May RBRA Meeting – Present Cost / Benefit Table for Mooring System Types
- Develop and Submit Internal Draft IS / MND / CEQA Documents
- Develop and Submit Various Agency Permit Applications / Notifications