



LOS ANGELES COUNTY COASTAL RESILIENCE PROJECT UPDATES

Community Services Cluster Meeting

February 5, 2025

Coastal Resilience Initiative Update

PLANNING PHASE

Feasibility Study in progress. Estimated to be completed in Spring 2025.

Living Shoreline Demonstration Projects

Sand Compatibility and Opportunistic Use Program (SCOUP)

PLANNING PHASE

Establish 5 pre-approved sites for relatively small beach nourishment projects (up to 150k cubic yards per year) using opportunistically available sand sources, such as those generated from upland land development projects, harbor maintenance dredging projects, and flood control maintenance operations. Estimated to be completed in mid-2026.

LA County Regional Coastal Strategic Adaptation Plan

PROJECT KICK OFF JANUARY 2025

Develop a regional coalition of stakeholders and prepare a strategic plan to facilitate implementation of regional shoreline management activities for the Los Angeles County coast.



LA County Regional Coastal Strategic Adaption Plan

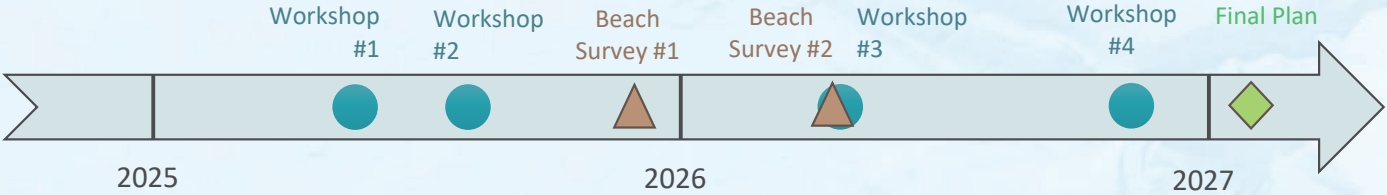
Developing the foundation for collaboration to protect and enhance the shoreline and ensure public access by making the beaches more resilient to current coastal erosion and future SLR

- County led initiative to develop a **regional coalition** of stakeholders to facilitate shoreline management **across multiple jurisdictions**
- Funded by a **\$1M grant** awarded through OPC’s SB1 Grant Program

Project Work Plan

- Organize and Initiate Stakeholder Meetings
- Prepare Shoreline Management Strategic Plan
- Establish and Conduct Regional Shoreline Monitoring Program

Schedule



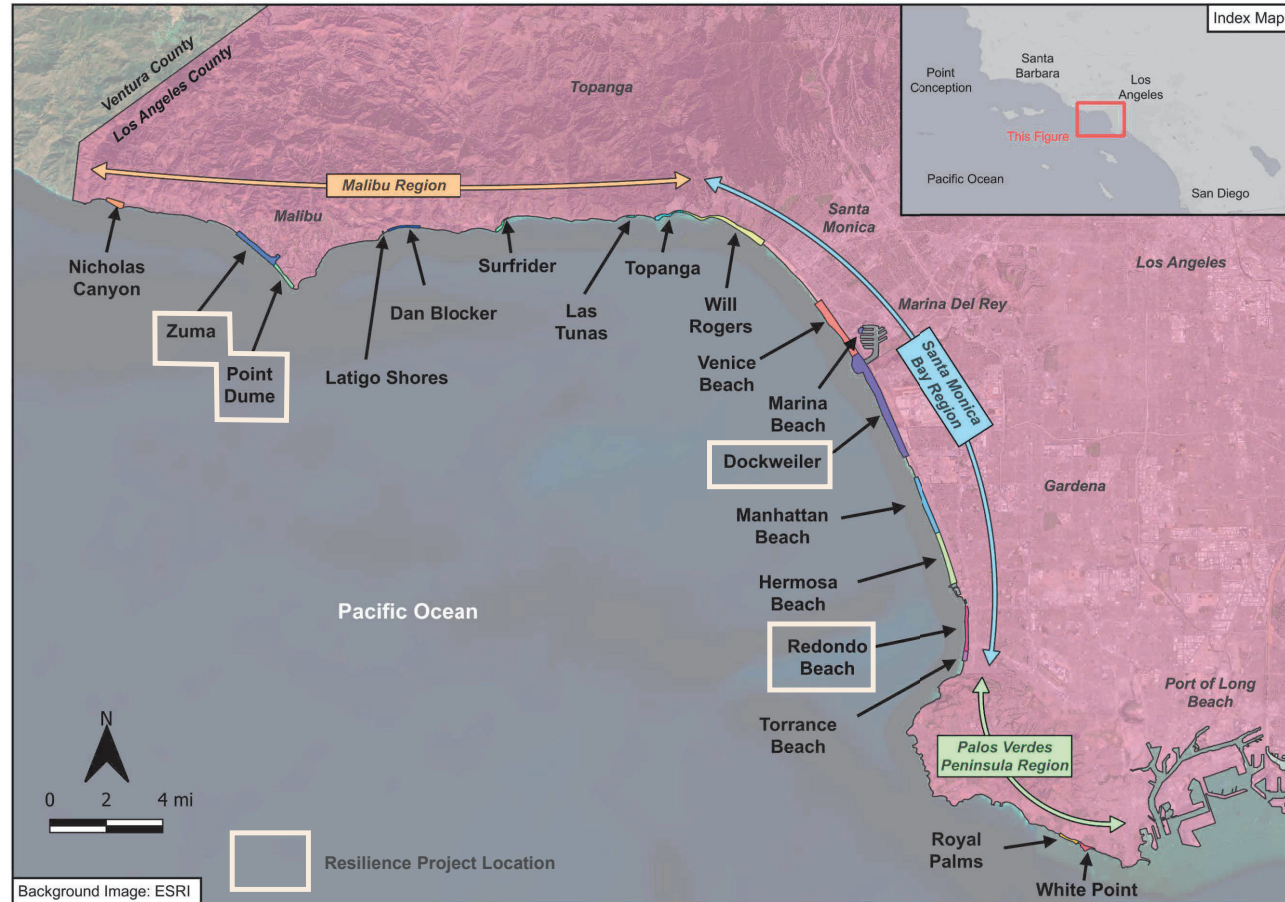
Living Shoreline Demonstration Projects

Purpose

- Increase resilience to present and future coastal hazards
- Preserve and enhance equitable public access to County-owned or maintained beaches

Projects

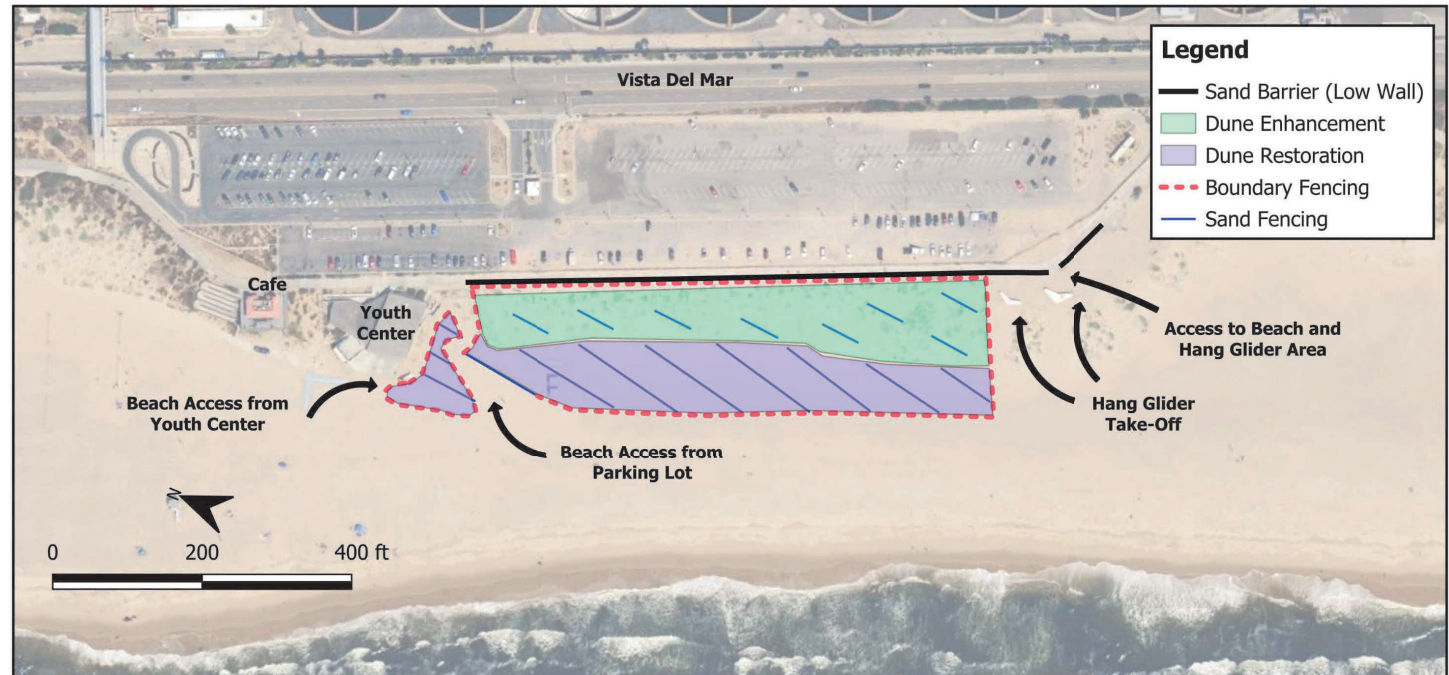
- **Zuma Beach and Point Dume**
Increase sediment supply and expand habitat through beach nourishment and dune creation
- **Dockweiler State Beach**
Enhance and expand dune habitat and limit sediment transport onto bike path, sidewalk, and parking lot
- **Redondo Beach**
Increase beach widths and create dune habitat between Topaz Groin and Redondo Pier through beach nourishment



Dockweiler State Beach

Proposed Project

- Low sand barrier at bike path
- Enhancement of existing dunes
- Restoration (expansion) of dunes seaward
- Public accessways at three locations



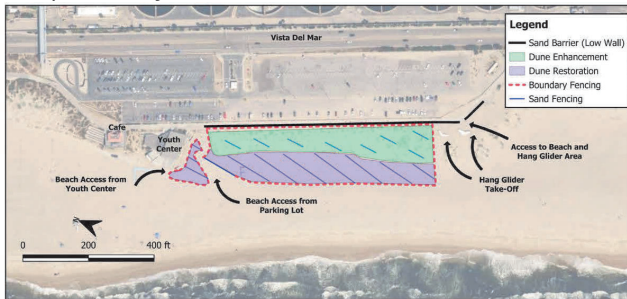
Low sand barrier at Zuma Beach



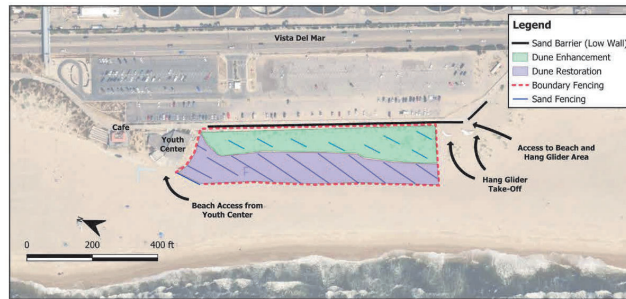
Dockweiler State Beach - Summary

Project	Enhanced Dune Habitat	Restored Dune Habitat	Length of Sand Barrier	Number of Beach Access Points
Proposed	1.3 acres	1.3 acres	850 ft	3
Alternative 1	1.3 acres	1.5 acres	850 ft	2
Alternative 2	1.3 acres	1.4 acres	700 ft	4

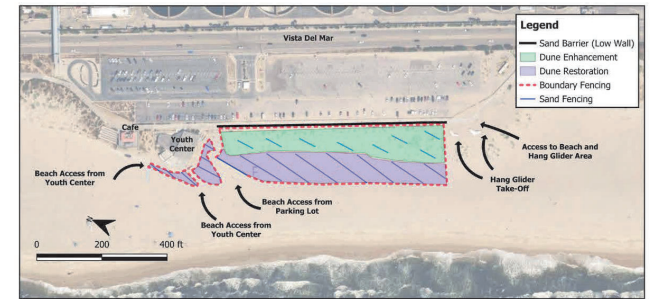
Proposed Project



Alternative 1



Alternative 2



Zuma Beach and Point Dume Beach

Opportunities

- Sediment placed at Zuma Beach is expected to benefit Point Dume Beach and other down-drift beaches
- Could be considered mitigation for impacts to sandy beach from Westward Beach Road revetment
- Significant portions of the shoreline have “high potential” for self sustaining dunes

Constraints

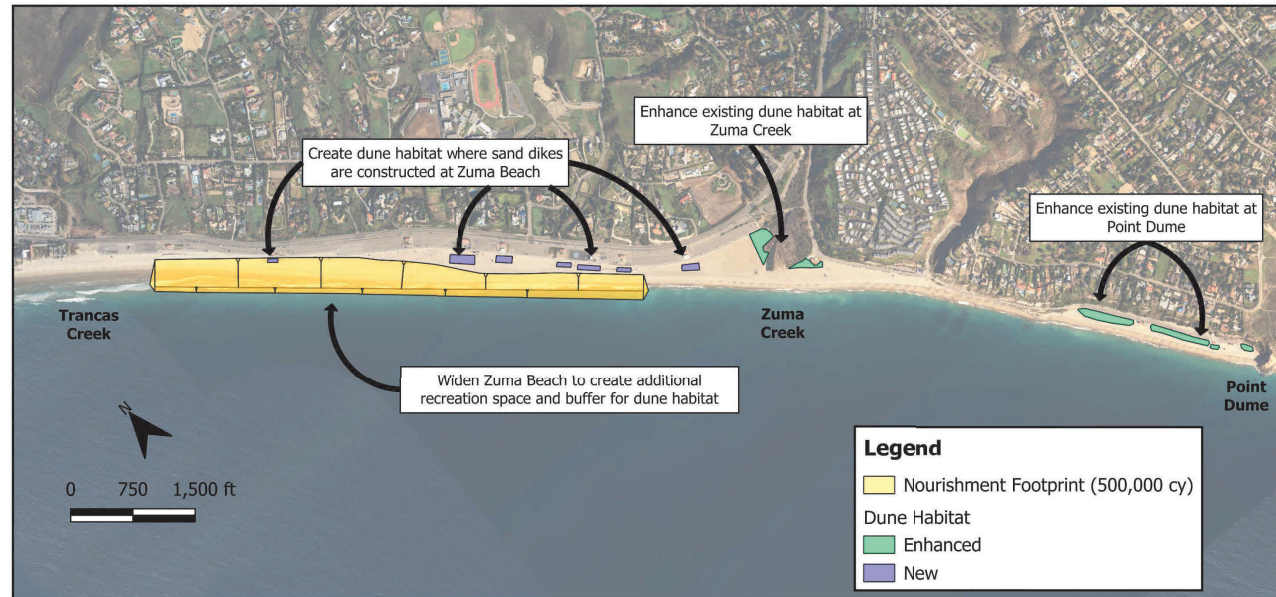
- Point Dume Beach is in the Point Dume **State Marine Reserve**
- Public access must be preserved
- Existing biological habitat
 - Western Snowy Plover
 - Essential Fish Habitat
 - Area of Special Biological Significance



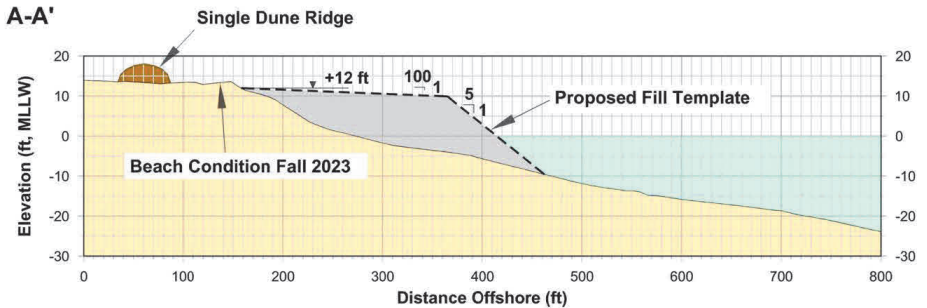
Zuma Beach and Point Dume Beach

Proposed Project

- Beach nourishment at Zuma (500,000 cy)
 - Renourishment interval ~5 years
- Create dune habitat at Zuma Beach where winter sand dikes are typically built
- Enhance existing dune habitat at Zuma Creek and Point Dume Beach



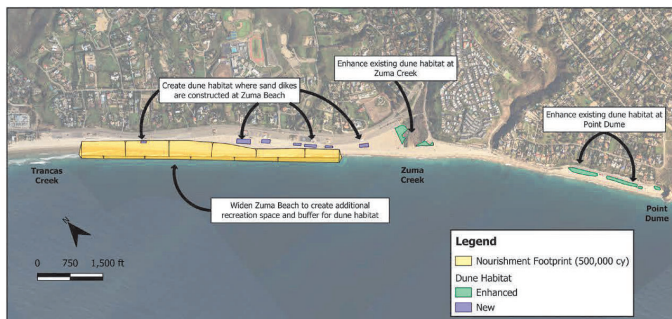
Section A-A'



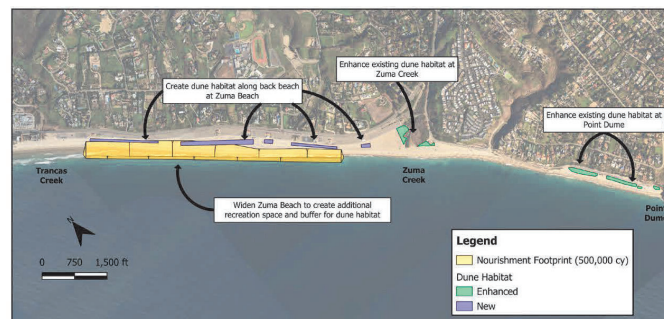
Zuma Beach and Point Dume Beach- Summary

Project	Beach Nourishment	Renourishment Interval	New Dune Habitat	Enhanced Dune Habitat
Proposed	500,000 cy	5 years	2.5 acres	4.5 acres
Alternative 1	500,000 cy	5 years	7.5 acres	4.5 acres
Alternative 2	750,000 cy	8 years	2.5 acres	4.5 acres

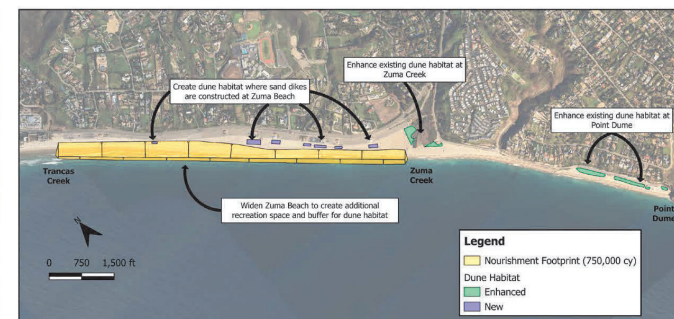
Proposed Project



Alternative 1



Alternative 2



Redondo Beach

Opportunities

- Prior use as beach nourishment site (USACE)
- Pier provides possible location for sediment retention structure
- No negative down-drift impacts from sediment retention (to the north)

Constraints

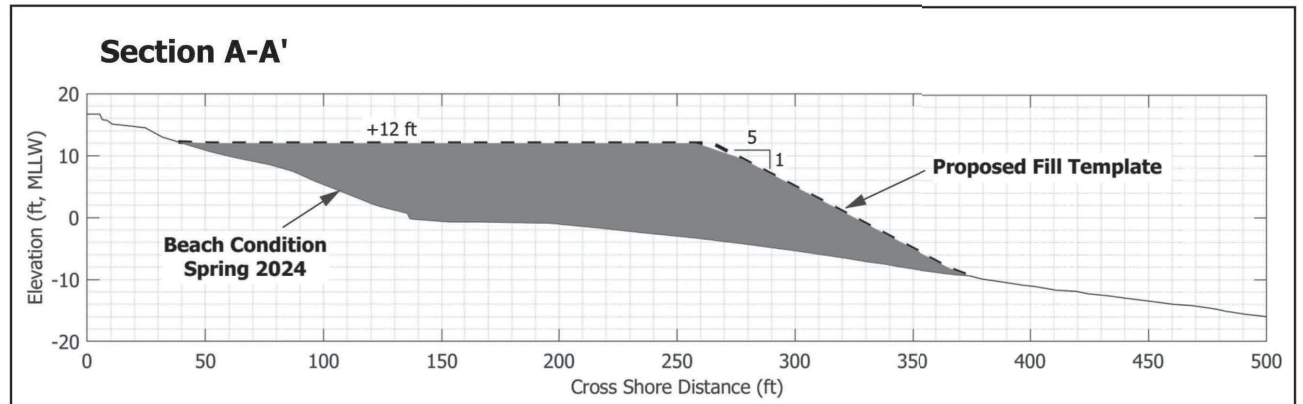
- Public access must be preserved
- Towel space will be reduced where dunes are created
- Potential grunion impacts during nourishment
- Proximity to Redondo Submarine Canyon



Redondo Beach

Proposed Project

- Beach nourishment (300,000 cy)
 - ~90-ft wide equilibrated beach width at start of project
 - ~70-ft wide beach after 20 years
- Dune restoration at south end
- Sediment retention (groin) at pier



Redondo Beach - Summary

Project	Beach Nourishment	Renourishment	Sediment Retention (Groin)	Dune Habitat
Proposed	300,000 cy	No	Yes	4.5 acres
Alternative 1	300,000 cy	No	No	4.5 acres
Alternative 2	150,000 cy	No	Yes	4.5 acres

Proposed Project



Alternative 1



Alternative 2



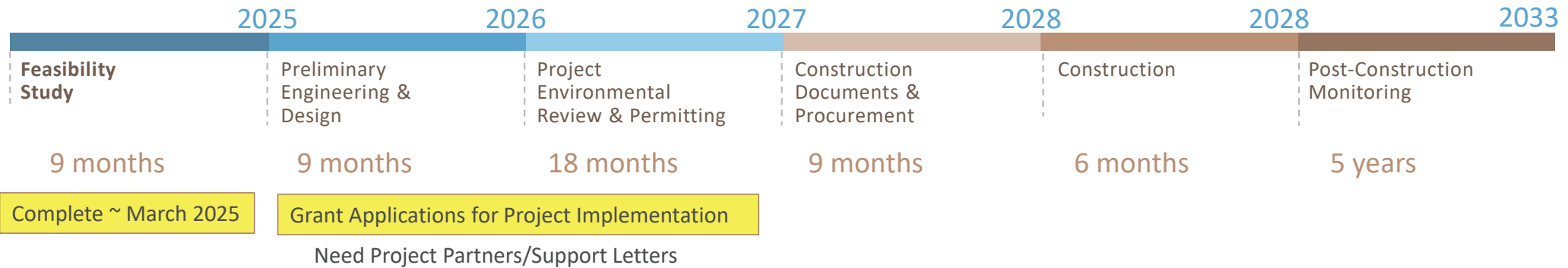
Alternatives Analysis – Next Steps

Next Steps

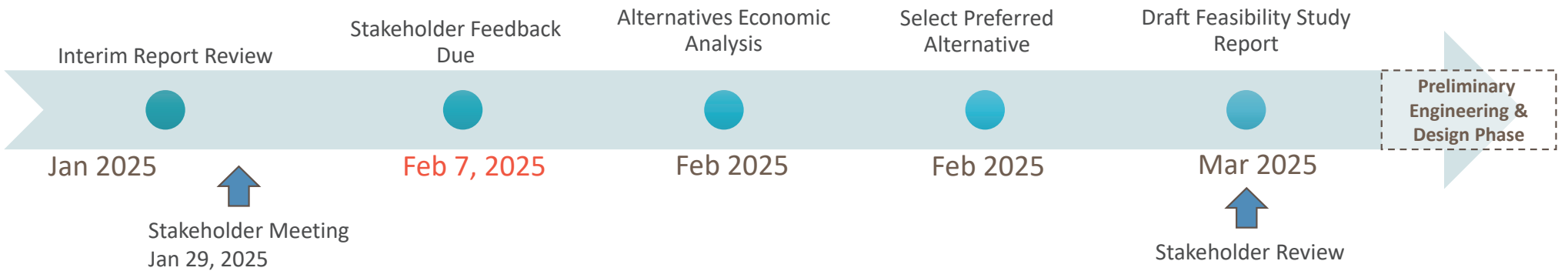
1. Confirm selected alternatives are suitable based on public feedback
2. Apply relative weights for evaluation metric
 - Net increase in beach width
 - Quantity of dune habitat
 - Environmental benefits and impacts
 - Public access benefits and impacts
 - Economic analysis (*to be completed*)
3. Rank alternatives based on weighted score



Project Schedule



Feasibility Study Schedule



Thank You!

- Contact coastalresilience@bh.lacounty.gov
- DBH Coastal Resilience Webpage
<https://beaches.lacounty.gov/coastal-resilience-2/>
 - Find past and current reports
 - Sign up for email notification
 - Find stakeholder meeting materials

