Goleta Beach 2.0 Project Selection

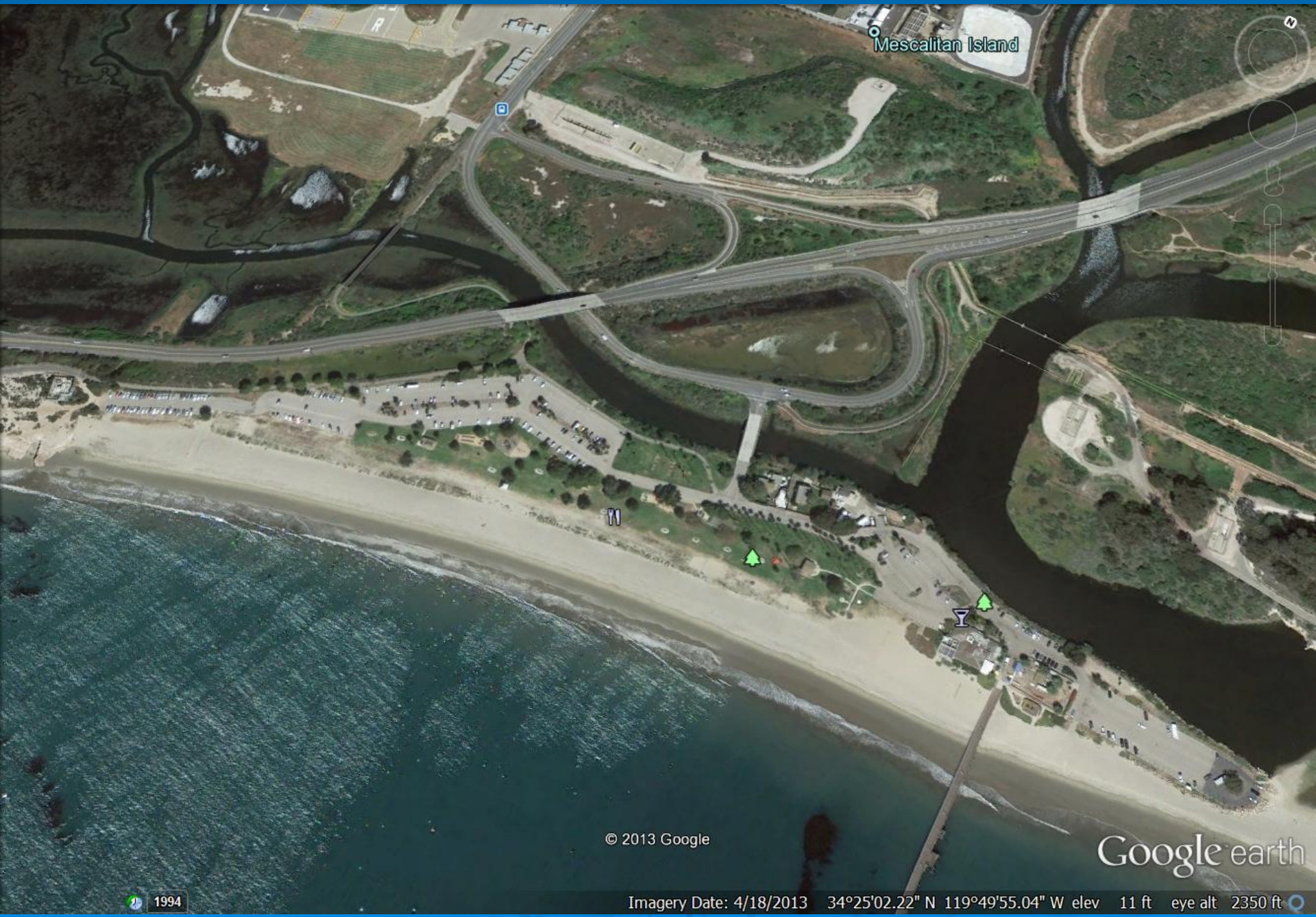
Goleta Beach County Park

March 18, 2014

Recommended Action

- Receive Report on the Goleta Beach 2.0 EIR Project and Project Alternatives

- Select Project to submit to California Coastal Commission (CCC) to resolve unpermitted status of rock revetment


Mescalitan Island
© 2013 Google
Google earth
1994
Imagery Date: 4/18/2013 34°25'02.22" N 119°49'55.04" W elev 11 ft eye alt 2350 ft

History

1980 - 2005:

- Shoreline erosion damages park facilities*
- Temp emergency rock revetments installed

2003 - 2009:

- Goleta Beach Master Plan process initiated
- Goleta Beach Master Plan Draft EIR issued
- Goleta Beach Master Plan CCC application submitted
  - permeable pier project
- CCC denies project (9-1)

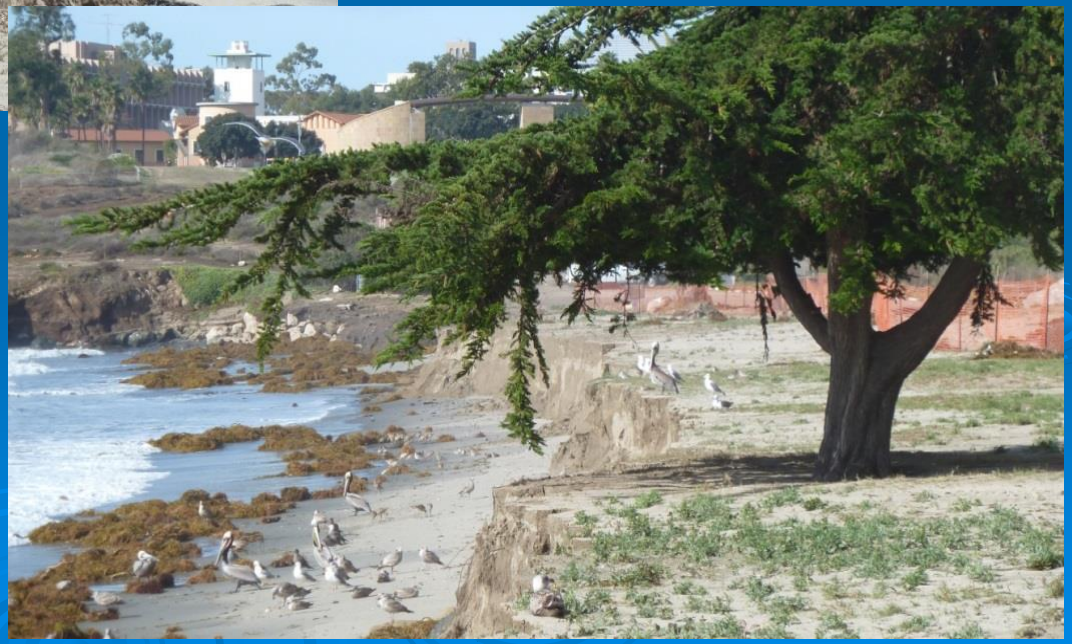
*$10 million in repairs since 1990s – County & Federal funds

History

2010 - 2013:

- Goleta Beach 2.0 Project initiated
- CIAP Grant Awarded - $1.5 million in 2012
- EIR for Goleta Beach 2.0 commenced
- Draft EIR completed

March 2014 Storm Damage



EIR Findings

- Shoreline at Goleta Beach fluctuates, not continually eroding
- Western revetment placed high on beach and largely buried
- Minimal effects on downcoast sand supply
- Modeling projects substantial erosion into Park during severe storm event


Buried Revetment
at Goleta Beach –
mid tide


Seawall in
Isla Vista


Revetment at Casa
Blanca/Sandyland
– low tide


Seawall at Butterfly
Beach – mid/high
tide


Revetment at Butterfly
Beach – low tide

Project Options

EIR Project
- Managed Retreat

Alternative 1
- Natural Shoreline Management

Alternative 2
- Temporary Revetment Retention with Pilot Projects

Alternative 3
- Westward Managed Retreat Program

Alternative 4
- No Project, Scenario 1: Remove revetment; no other changes

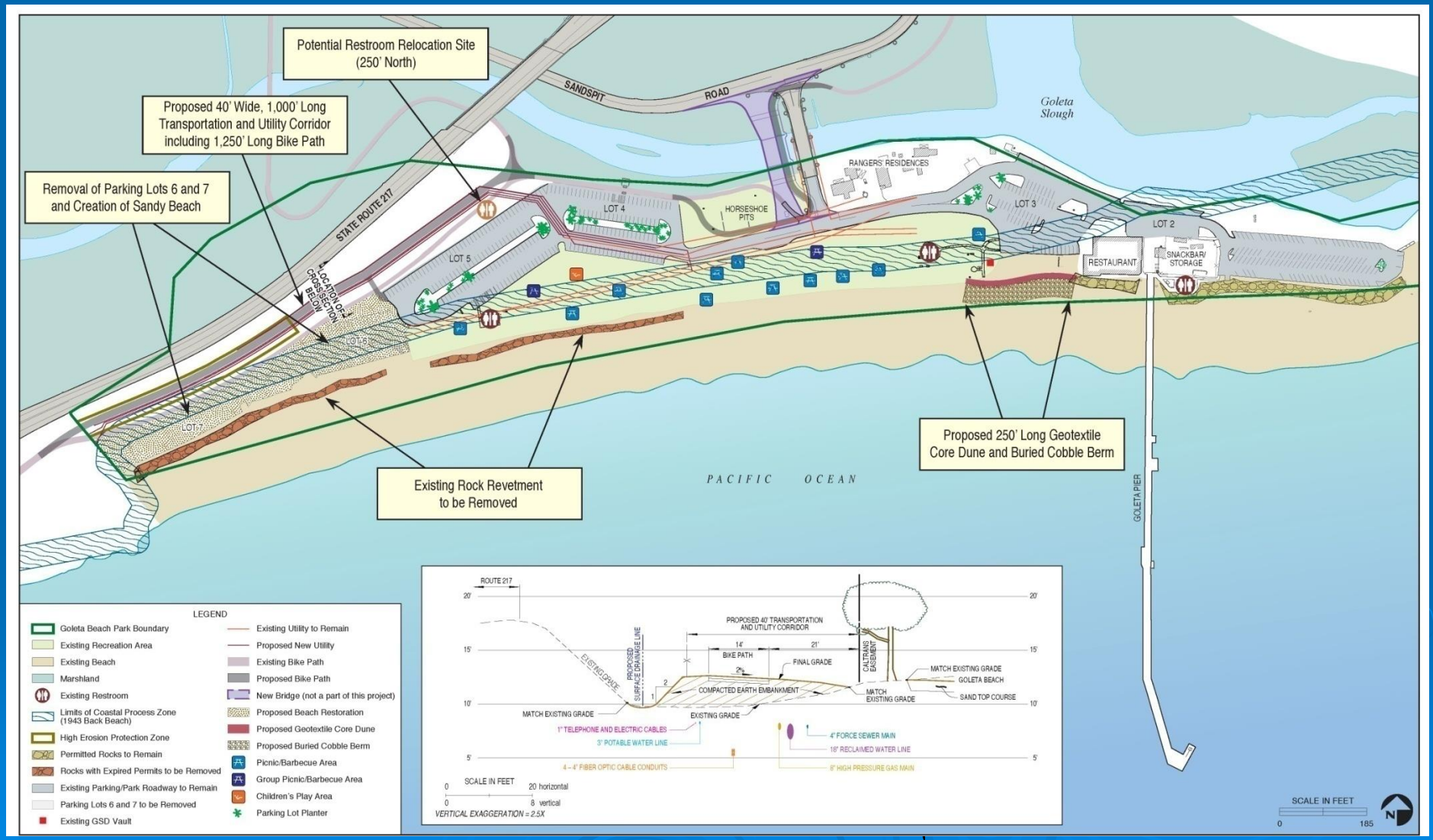
Alternative 5
- No Project, Scenario 2: No changes (revetment remains)

EIR Project

- Remove 1,200 ft Rock Revetment
- Remove Parking Lots 6 and 7 – 107 spaces
  - Replace with sandy beach
  - New parking spaces/restriping – no net loss
- Establish new Transportation & Utility Corridor
  - Relocate at-risk Utilities into Corridor
  - Relocate existing bike path into Corridor
- Protect Goleta Sanitary sewer vault w/cobble berm/geotextile dune system
- Consider relocation of western restroom

Estimated project cost: $4.2 million (+ utility reloc.)

EIR Project Site Plan



EIR Conclusions

Significant Effects of EIR Project

Aesthetics

- Loss of shoreline lawn/trees

Coastal Processes

- Exposure of Park to wave attack, erosion and damage

Land Use

- Conflicts with Coastal Plan protections for recreation

Recreation

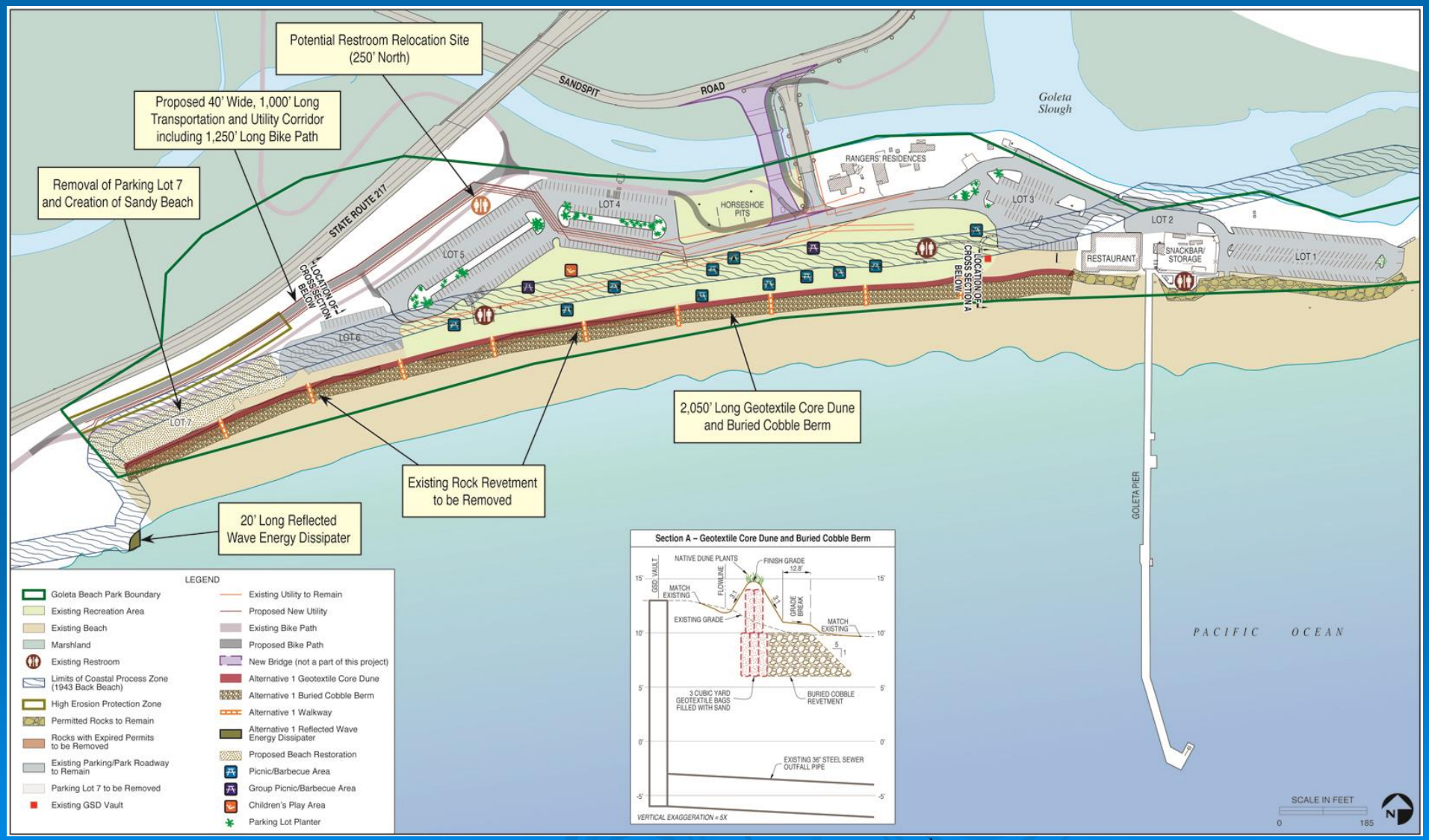
- Loss of beachfront lawn area

Alternative 1

- Remove 1,200 ft Rock Revetment
- Remove Parking Lot 7 – 55 spaces
  - Replace with sandy beach
  - New parking spaces/restriping – no net loss
- Establish new Transportation & Utility Corridor
  - Relocate at-risk Utilities and bike path
- Install 2,050 ft Cobble Berm/Geotextile Dunes
- Install 20 ft long Wave Energy Dissipater
- Periodic beach nourishment

Estimated project cost: $8.4 million (+ utility reloc.)

Alternative 1 Site Plan: Natural Shoreline Management

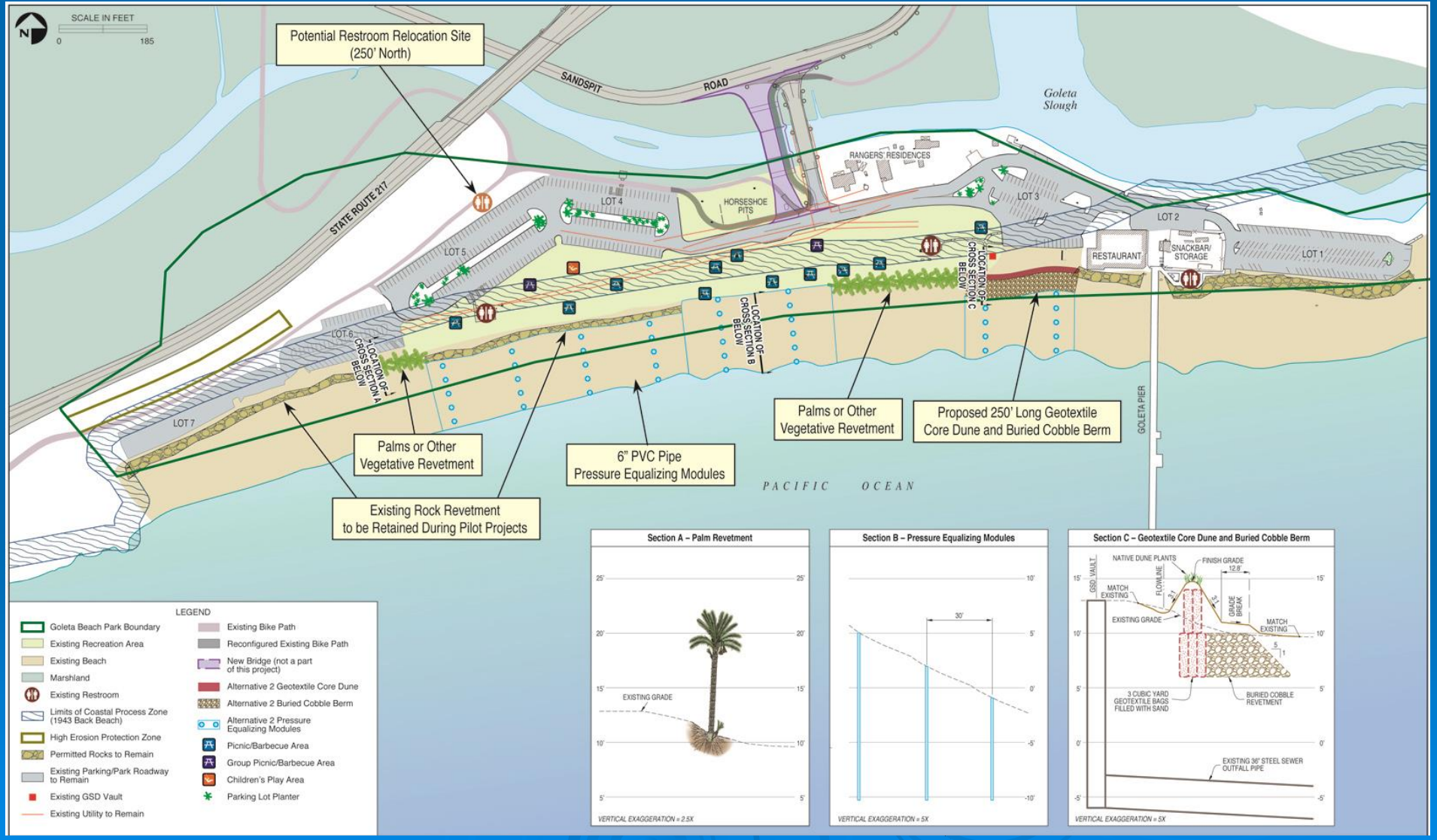


Alternative 2

- Retain 1,200 ft Rock Revetment – 20-yr Test Period
- Install 3 Pilot Projects – 20 yr Test Period
  - Cobble Berm / Geotextile Dune system
  - Vegetative Revetment, Canary Island Date Palms
  - Pressure Equalizing Modules
- Remove revetment and implement preferred project after test period
- Retain Parking Lots 6 & 7
- Retain Utility and Bike Corridors
- Single Beach Nourishment event

Estimated project cost: $10.9 - $15.6 million

Alternative 2 Site Plan:
Temp Revetment Retention w/ Pilot Projects

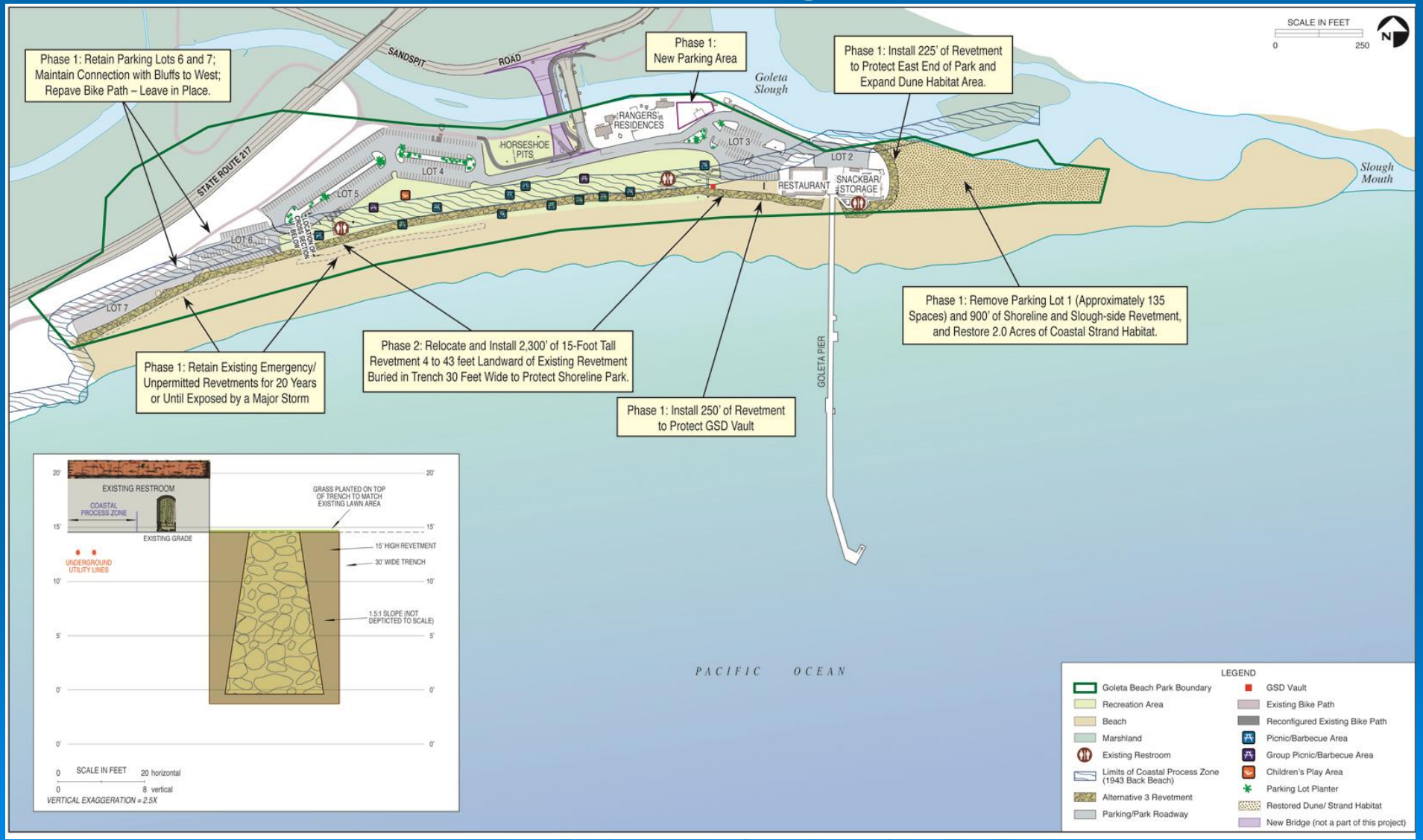


Alternative 3

- Permit 1,200 ft of Rock Revetment
  - Relocate revetments landward once exposed and extend to fill in gaps
- Restore 2 acres of Sandspit
  - Remove Parking Lot 1 (east end of Park) – 135 spaces
  - Remove 900 ft of Rock Revetment
  - Replacement parking
- New revetment to protect snack shop, GSD vault
- Retain Parking Lots 6 & 7
- Retain existing utilities and bike path

Estimated project cost: $22.8 million

Alternative 3 Site Plan: Westward Managed Retreat

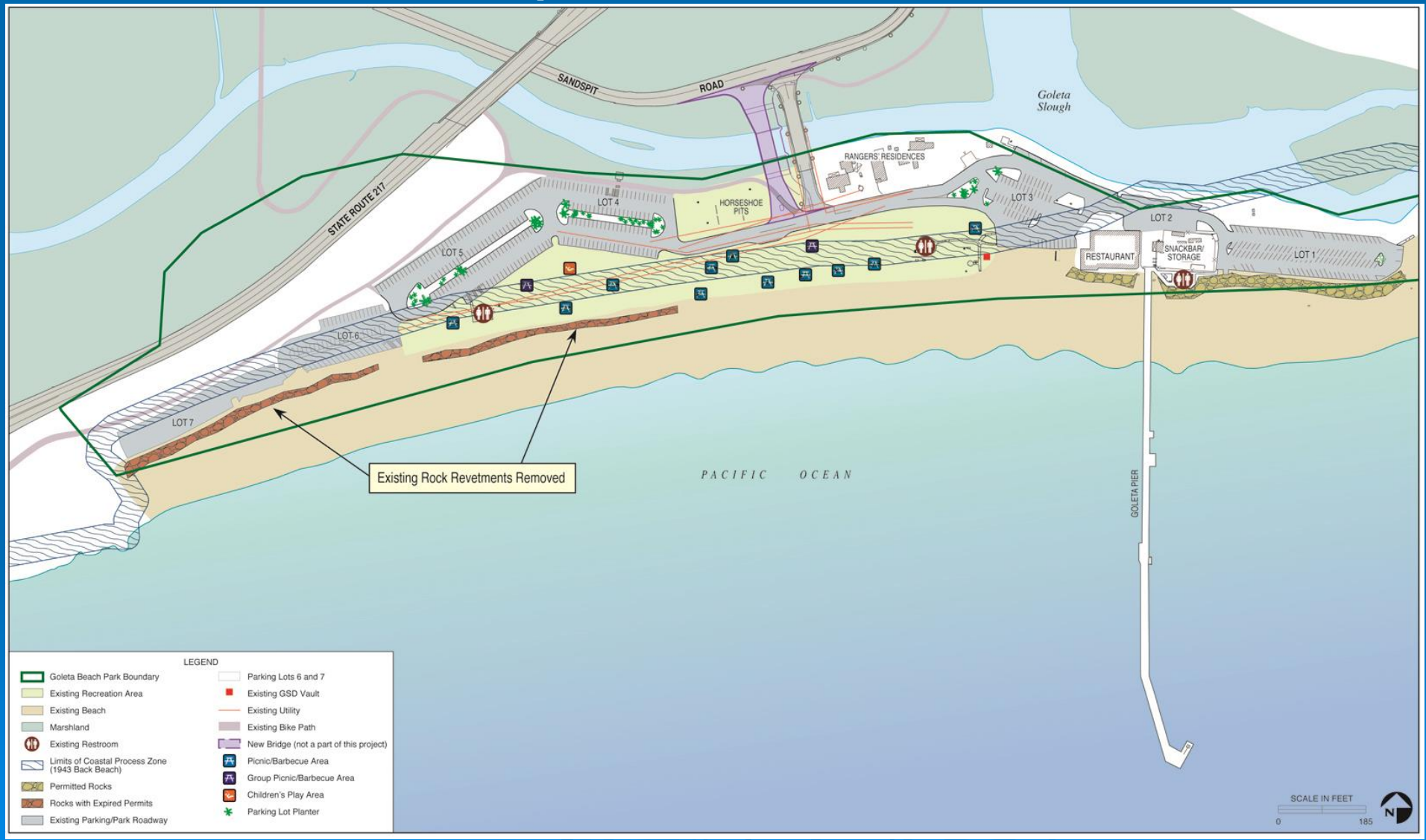


Alternative 4

- Remove 1,200 ft Rock Revetment
- No other changes

Estimated project cost: $2 million

Alternative 4 Site Plan: Removal of Unpermitted Rock Revetment

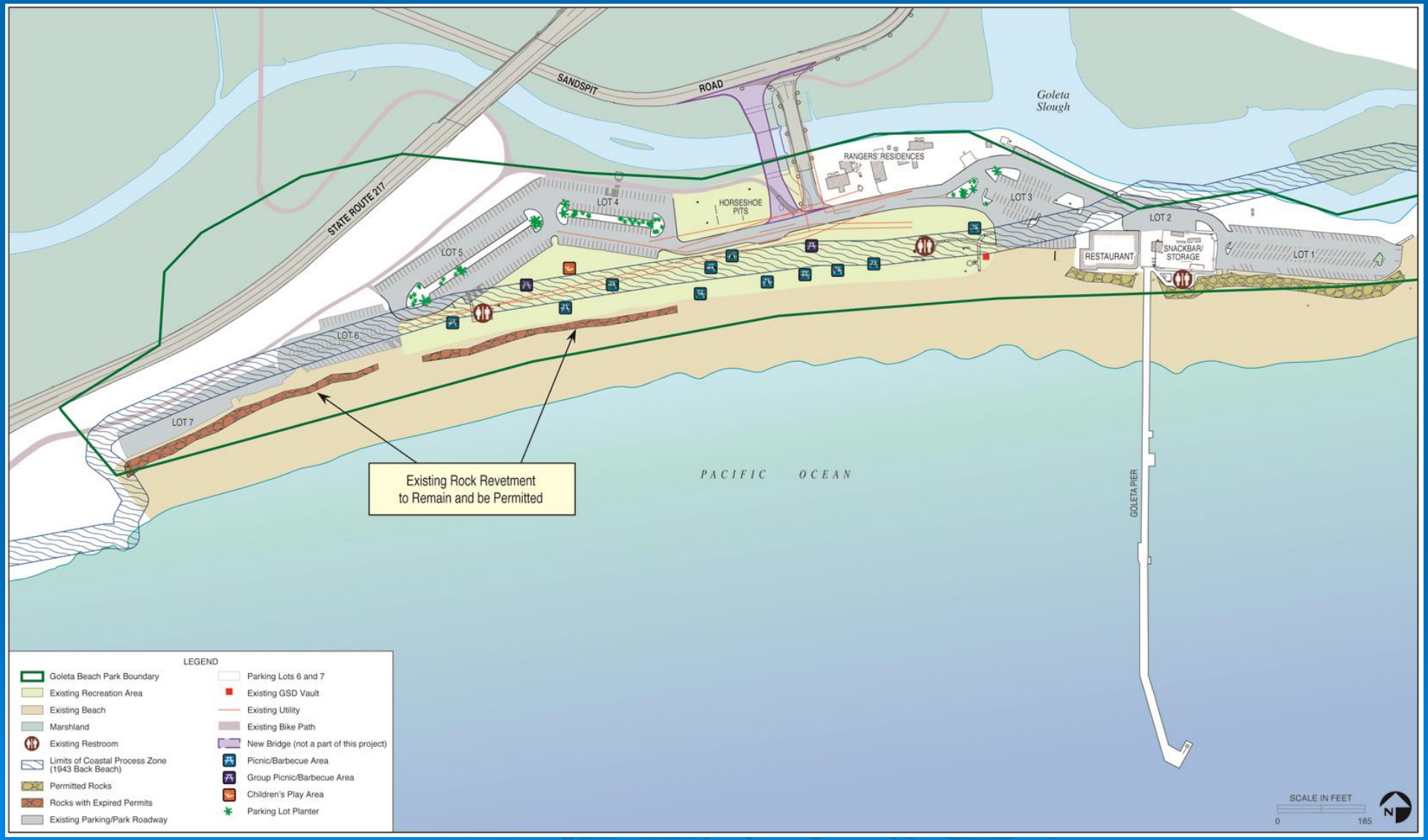


Alternative 5

- Permit and retain 1,200 ft Rock Revetment
- No other changes

Estimated project cost: $0

Alternative 5 Site Plan: No Changes



Project Alternative Matrix

Attachment 8: Project Alternatives Matrix

Project Element	EIR Project – Managed Retreat	Alternative 1 – Natural Shoreline Management	Alternative 2 – Pilot Projects	Alternative 3 – Westward Managed Retreat	Alternative 4 – Remove Revetment	Alternative 5 – Retain Revetment
Existing 1,200 ft. Unpermitted Western Rock Revetment	Remove	Remove	Retain for 20 years, then remove	Retain for 20 years or until exposed, then relocate landward	Remove	Retain
Existing Permitted / Historical Revetment	Retain	Retain	Retain	Remove portion fronting Parking Lot 1	Retain	Retain
Parking Lot Removal	Remove Lots 6 and 7 (107 spaces)	Remove Lot 7 (55 spaces)	None	Remove Lot 1 (135 spaces)	None	None
Utility Relocation	Yes	Yes	No	No	No	No
Bike Path Relocation	Yes	Yes	No	No	No	No
Sewer Vault Protection	Geotextile Dune/Cobble Berm	Geotextile Dune/Cobble Berm	Geotextile Dune/Cobble Berm	Rock Revetment	None	None
Alternative Shoreline Protection Method(s)	None	2,050 ft. of Geotextile Dune/Cobble Berm	Pilot Testing – Vegetative erosion control; Geotextile Dune/Cobble Berm; Pressure Equalizing Modules	2,050 ft. of Rock revetment located up to 43 ft. landward of existing revetment and buried under existing lawn	None	None
Other Project Elements	None	Reflected Wave Energy Dissipater at western headland	Expansion of selected protection measure along 2,050 ft. of shoreline after 20 years	Removal of 900 ft. of rock revetment protecting Parking Lot 1; 225 ft. of new rock revetment to protect restroom/snack bar and Parking Lot 2	None	None
Known Project Cost (excluding utility relocation borne by utilities)	$4.21 million	$8.37 million	Test Phase - $7.4 million Final Phase - $3.5-$8.2 million (depends on which measure selected)	$22.8 million	$1.96 million	$0
epair Costs (compared to current)	Higher	Higher	Slightly Higher	Same	Much Higher	Same
Beach Nourishment notwithstanding SBCFDC activities)	None	Periodic under BEACON	100,000 cyds	None	None	None
Parking Replacement	N/A	N/A	N/A	Restriping – 70 spaces New Spaces – 30-45	N/A	N/A
Exposure of Lawn Area/Facilities to Erosion and Storm Damage	Yes – future loss/damage to up to 2.6 acres of lawn	Reduced but not eliminated	Minimal during test phase, reduced but not eliminated upon final phase	No – largely protected	Yes – future loss/damage to up to 2.6 acres of lawn	Minimized except where gaps

Coastal Commission Input

- In approving temporary rock revetments, CCC required County to develop long-term solution:
  - Seek permanent retention of revetment
  - Seek alternative project to address beach erosion
  - Remove revetment and restore site
- Required County to study alternative “soft” approaches to address erosion
- In denying permeable pier, several Commissioners encouraged managed retreat approach

Coastal Commission Input

- CCC staff commented on the DEIR for Goleta Beach 2.0 and recommended a phased retreat alternative be studied:
  - Immediate removal of unpermitted rock revetment
  - Relocate utilities to utility or highway corridor
  - Relocate Goleta Sanitary vault and outfall pipeline
  - Allow minor repair/reconstruction of lawn area/facilities from infrequent storm events
  - Phased plan for increased storm event frequency
    - Retain parking lots, facilities until storm frequency increases
    - Incremental response for facility removal / relocation

Public Involvement

2003

- Two visioning sessions held on Park master plan

2003 thru 2005

- 18 member Working Group formed and met 12 times over 20 month period

2005

- 3 Parks Commission Meetings
- BOS initiates EIR for permeable pier

2008

- BOS hearing on permeable pier for CCC submission

Public Involvement

2010

- Board hearing to initiate Goleta Beach 2.0

2012 - 2013

- Board hearing to initiate EIR
- Jun 28, 2012: EIR Public Scoping Meeting
- Jun 12, 2013: DEIR Public Workshop
- Jul 23, 2013: DEIR Hearing
- 90-day DEIR public review period
  - June 3 – August 30, 2013
  - Numerous comments received
    - 172 written, 25 oral, 35 petition signatures, 379 postcards

Next Steps

- Board of Supervisors project selection →
  - Defer local approval/certification of EIR
  - Submit CDP application to CCC (1-2 months)
    - CCC Staff review for application completeness
    - CCC hearing: 6-9 mos. once application deemed complete
    - Total CCC process could take 1 yr or more

Next Steps

- CCC approval →
  - Local Permit Approval and Certification of EIR
- Local Permit Approval →
  - Funding, Design and Implementation of Project

Recommended Action

- Receive Report on the Goleta Beach 2.0 EIR Project and Project Alternatives

- Select Project to submit to California Coastal Commission (CCC) for CDP to resolve unpermitted status of rock revetment