

CITY OF SOLANA BEACH COASTAL STORM DAMAGE REDUCTION PROJECT

Project Update



US Army Corps
of Engineers®
Los Angeles District



November 29, 2023



PROJECT OVERVIEW

- Project is a partnership between City + State + Federal Agencies
- Project planning, environmental and permitting phase - 20 years
- One of the first entirely new federal beach sand projects in California
- USACE Project will create a new, 150-foot wide beach sand berm
- Volume of sand dredged is approximately 700,000 cubic yards
- Project footprint is approximately 7,200 feet long

PROJECT OVERVIEW

- Sand will be placed from Tide Park stairs to southern City limits
- Sand source is borrow site SO-5 (offshore San Dieguito River mouth)
- Sand renourishment events approximately every 10 years
- Renourishment volume is 290,000 cubic yards
- Final renourishment event would occur in 2074 (e.g., in 50 years)

PROJECT FOOTPRINT

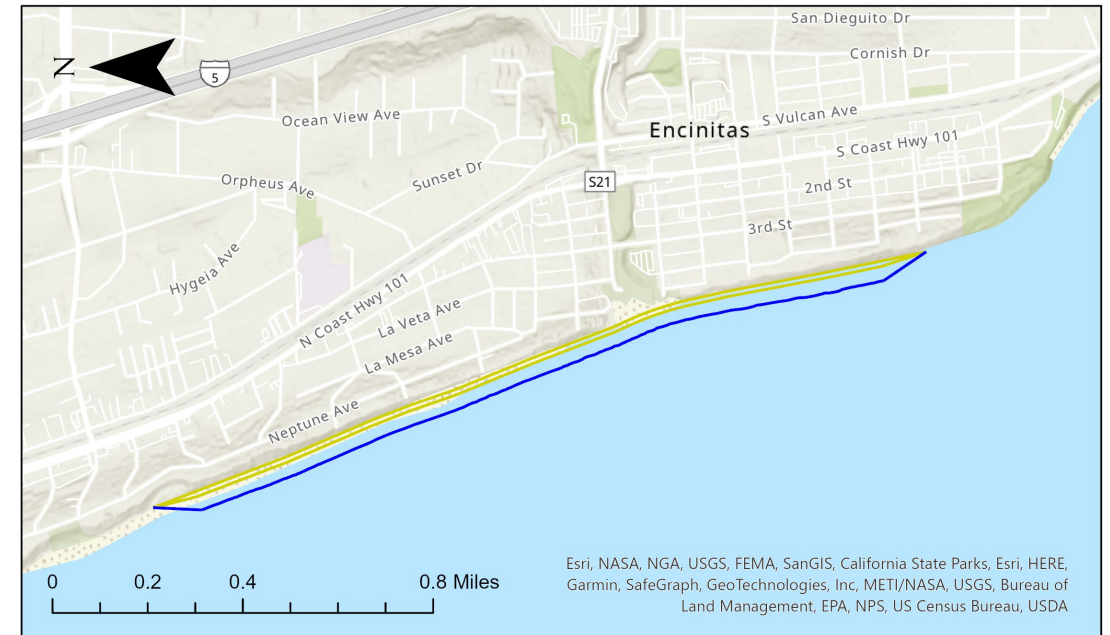


SOLANA BEACH & ENCINITAS NOURISHMENT FOOTPRINTS

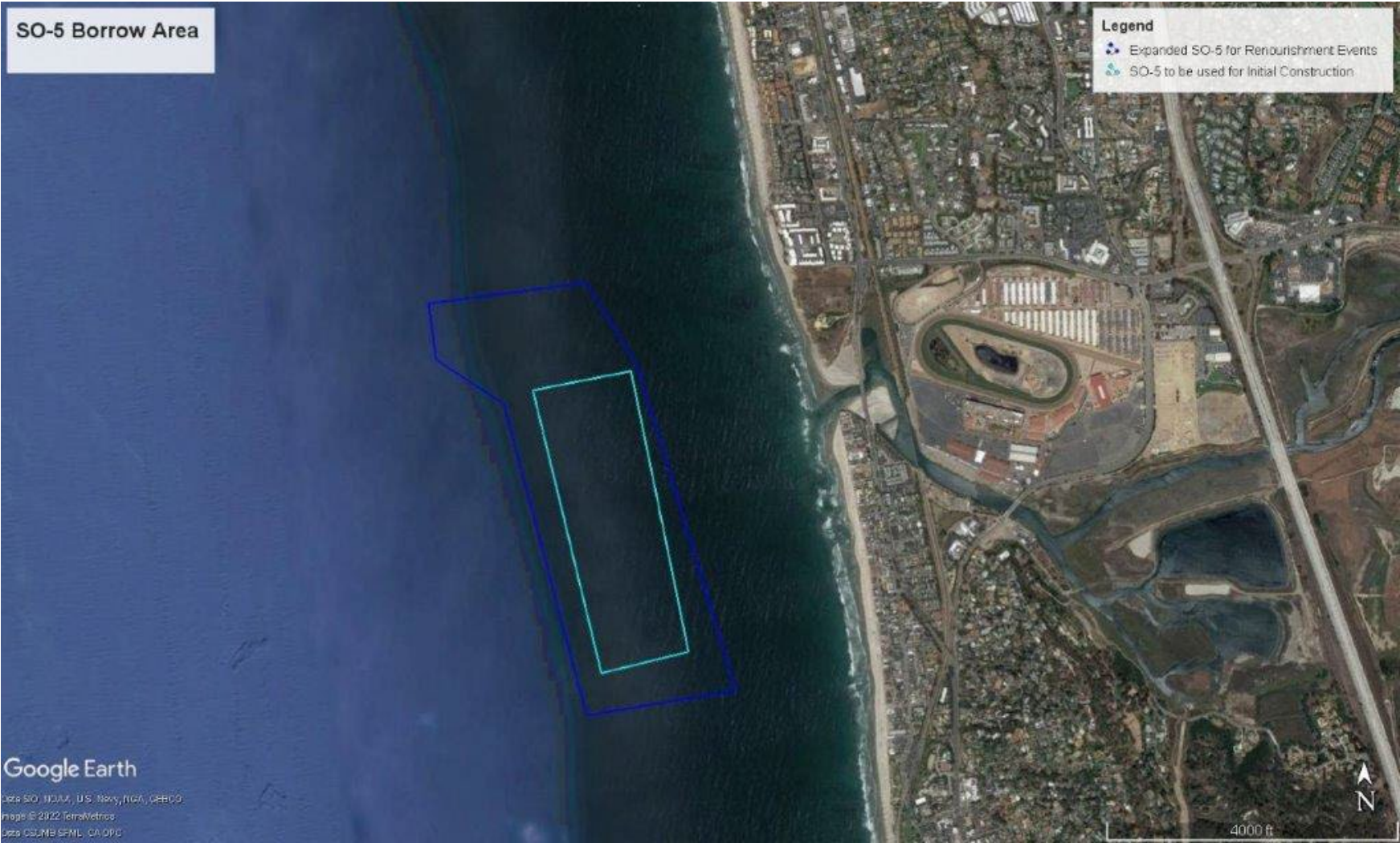
Solana Beach Nourishment Footprint



Encinitas Nourishment Footprint



SO-5 OFFSHORE SAND SOURCE



PROPOSED PROJECT PHASING

Proposed
Pipeline Installation
December 4, 2023

Project Construction
December 2023 or
January 2024

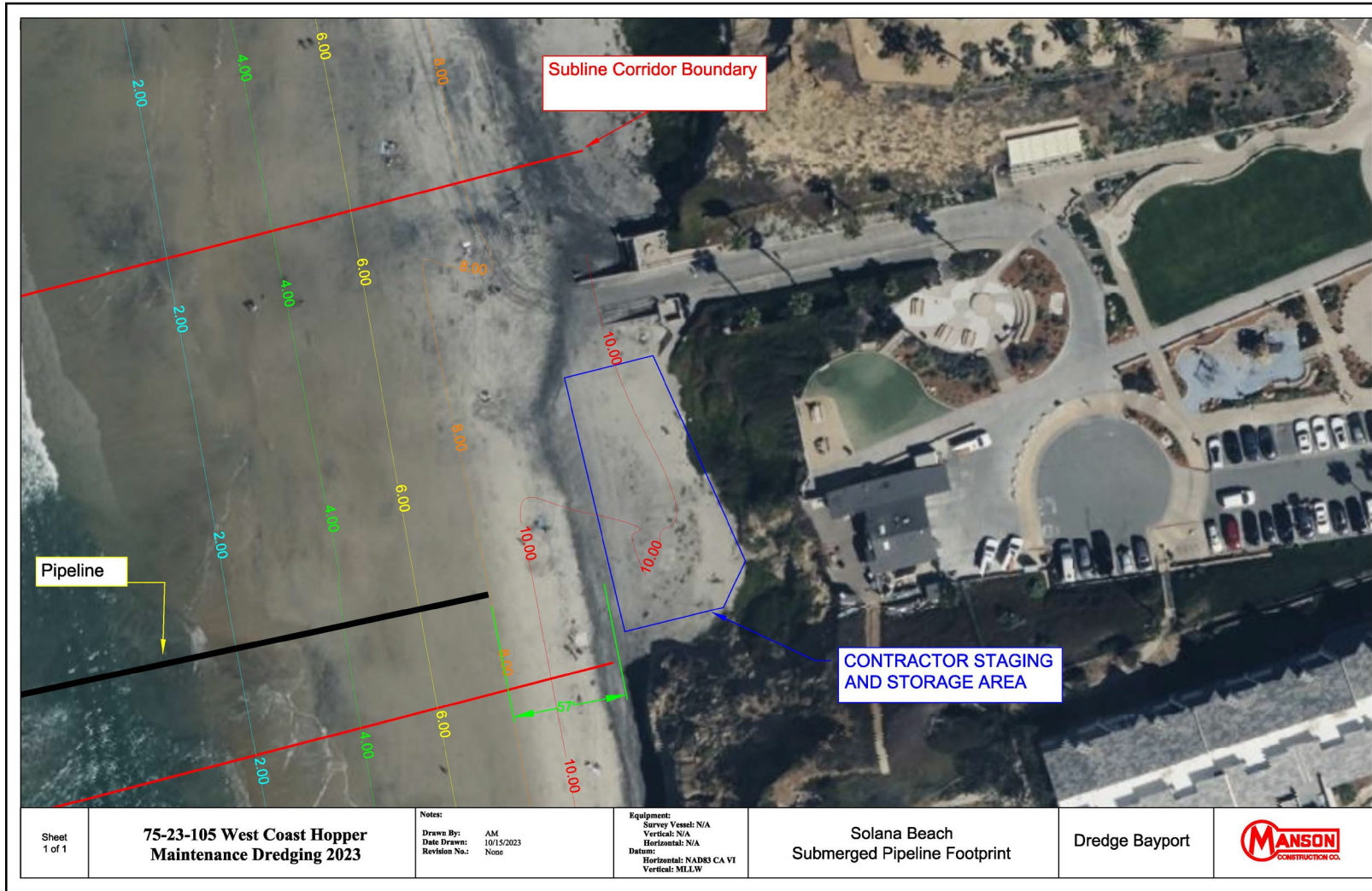
Construction will
last approximately
60 days

Dredging will occur
24 hours a day / 7
days a week

Shore equipment
operates 12
hours/day, 7 days
week

Post-construction
demob: February /
March 2024

SOLANA BEACH SUBMERGED PIPELINE FOOTPRINT LOCATION





PIPELINE LANDING: 1 DAY PROCESS



PIPELINE LANDING (SUBLINE INSTALL)

DREDGE PIPE SUBLINE BEING “LANDED” IN SAN CLEMENTE: 11/21/23



DREDGE PIPELINE BEING PULLED ASHORE





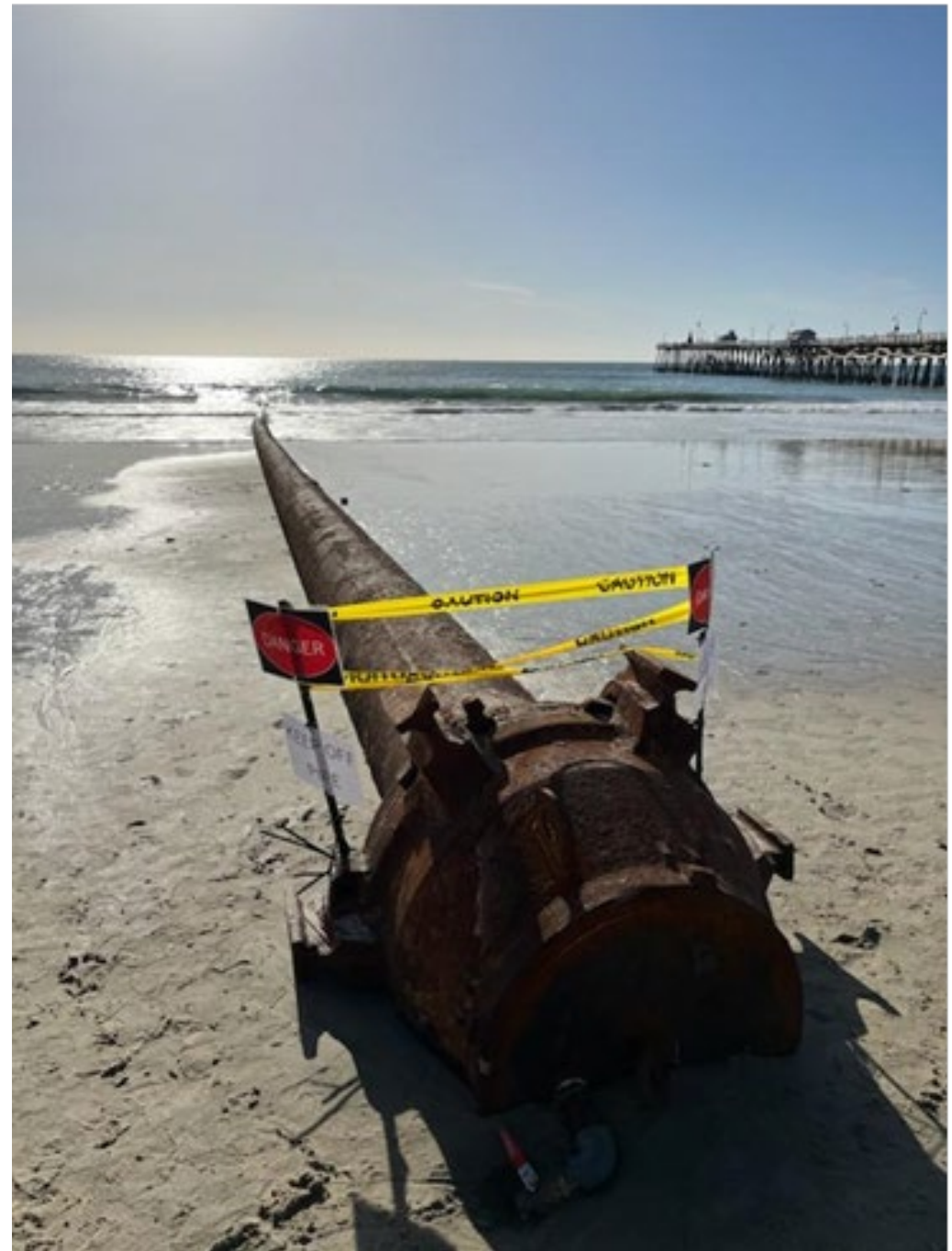
TEMPORARY BEACH CLOSURE



SAN CLEMENTE SUBLINE INSTALL: 11/21/23

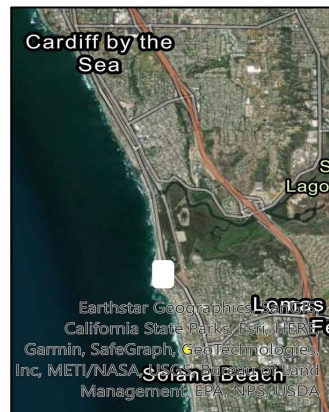
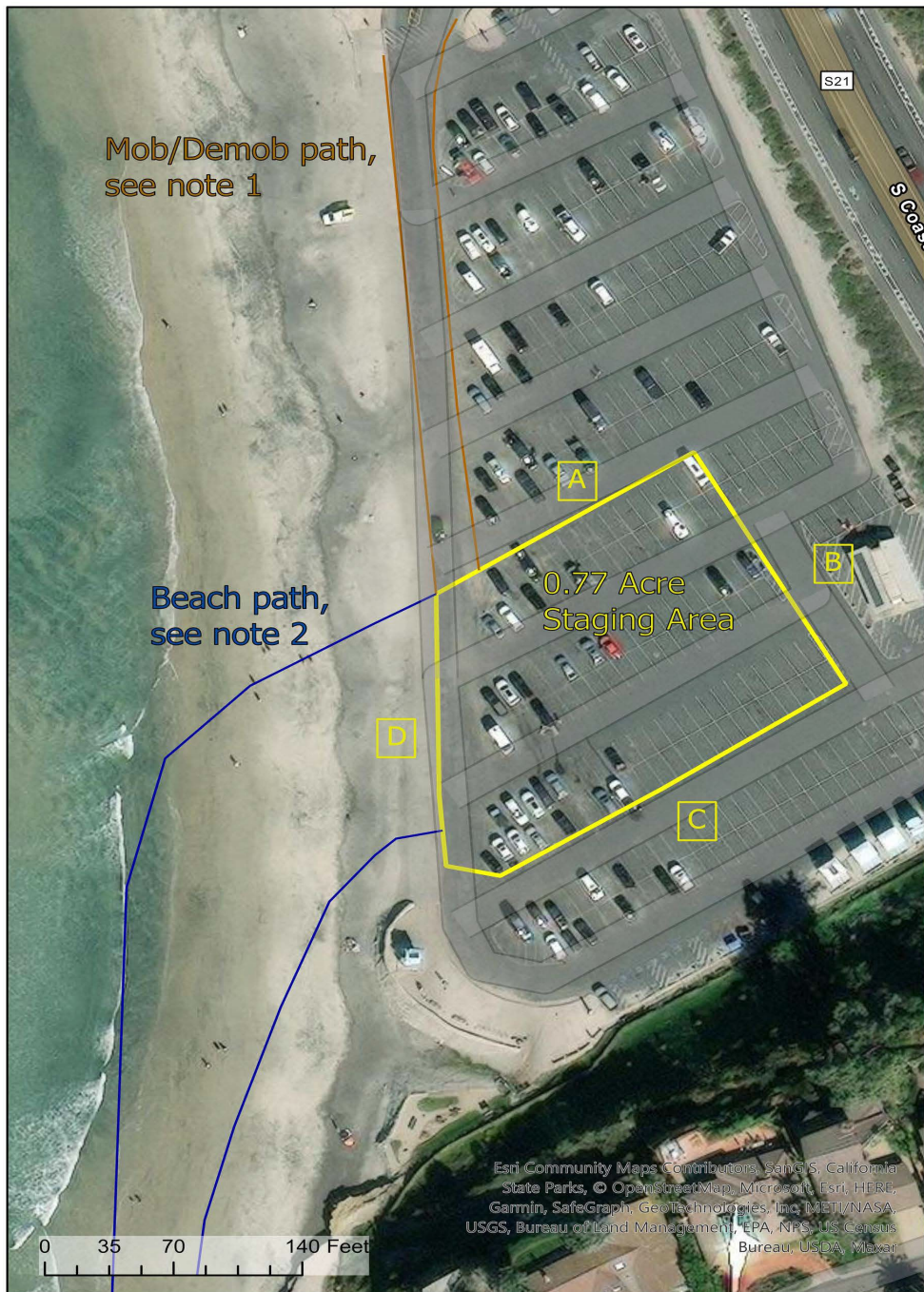
Dredge “subline”
placed
on the beach
prior to start of
construction phase.

Proposed to occur
on 12/4/23 with
City concurrence



**EXAMPLE:
EQUIPMENT
STORAGE AT
CARDIFF
STATE
PARKS
PARKING
LOT**





Notes:

1. Approximate mobilization/demobilization path (orange) will be utilized at the beginning and end of construction.
2. Approximate beach path (blue) will be utilized periodically by equipment transiting to the Solana Beach construction area.

S. Cardiff Staging Area
Approximate Dimensions:

- A - 165 feet
- B - 165 feet
- C - 230 feet
- D - 175 feet

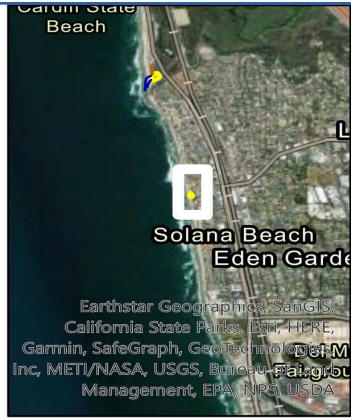


STATE PARKS

SEASIDE

PARKING LOT

STAGING AREA



FLETCHER COVE STAGING AREA

Fletcher Cove Staging Area
Approximate Dimensions:

- A - 50 feet
- B - 130 feet
- C - 60 feet
- D - 130 feet





EXAMPLE: CONSTRUCTION PHASE

2019 05 07

EXAMPLE: CONSTRUCTION PHASE



PUBLIC SAFETY PROGRAM



Public signs to be posted at multiple locations



**Equipment moving along beach
will have spotters at all times**



**Temporary construction
fencing around dredge
discharge area**



**No public access in active
sand placement areas**

USACE & Contractor Signage

72"

48"

PROJECT FUNDED BY

Bipartisan Infrastructure Law

INVESTING IN AMERICA



72"

48"

Design and Construction Supervised by:



US Army Corps of Engineers
Portland, San Francisco, & Los Angeles Districts



U.S. ARMY

West Coast Hopper Maintenance Dredging 2023

San Clemente, CA

Sponsored by:



Contractor:
Manson Construction Co.
Seattle, Washington

48"

48"

Safety is a Job Requirement



West Coast Hopper Maintenance Dredging 2023
Manson Construction Co.
Seattle, Washington

This project started **11-21-23**

Days since last lost time accident

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Total lost time injuries

		0

OUTREACH & COMMUNICATIONS

- Public Outreach & Communications
 - Public signs to be posted by City, USACE & Contractor
 - Beach access limitations during active construction phase
 - Temporary beach closures in work zone to protect public safety
 - Project information & construction schedule communicated:
 - ✓ @ Council Meetings
 - ✓ Press Releases & E-Blasts, QR Code
 - ✓ Dedicated Project Website
 - ✓ Social Media posts
 - ✓ Public Noticing onsite

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STAFF RECOMMENDATION

That the City Council receive this Update Report and consider and provide direction to:

- Allow USACE & Contractor to install dredge subline 12/4/23
- Prepare for project mobilization as early as 12/11/23
- Prepare for sand placement as early as 12/15/23
- Staff will continue to keep the public & Council informed

QUESTIONS?
