Foster City Levee Improvements Project
CIP 301-657

Planning Commission Submittal
May 3, 2018

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CONSULTING CIVIL ENGINEERS

City of Foster City Department of Public Works
### Foster City Design Flood Protection Elevations

Here is a summary of the existing and planned elevations for flood protection:

#### Existing Elevation

- **10-11**
- **11-12**
- **12-13**
- **13+**

#### Flood Improvements Elevations for 2050 Sea Level Rise

- **Flood Improvements Elevations for 2050 Sea Level Rise (feet, NAVD)**
- **Existing Elevation**

<table>
<thead>
<tr>
<th>Segment</th>
<th>Existing Flood Protection Elevation (feet, NAVD)</th>
<th>Flood Improvements Elevations for 2050 Sea Level Rise (feet, NAVD)</th>
<th>Maximum Elevation Increase from Existing Conditions (feet)</th>
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<tr>
<td>1</td>
<td>&gt; 13</td>
<td>15.5</td>
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<tr>
<td>2</td>
<td>11 – 12</td>
<td>19 – 18.5</td>
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<tr>
<td>3</td>
<td>10 – 13</td>
<td>18 – 17.5</td>
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<td>11 – 13</td>
<td>17.5</td>
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<td>5</td>
<td>11 – 12</td>
<td>16.5 – 13</td>
<td>5.5</td>
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<td>12 – 13</td>
<td>13</td>
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<td>8</td>
<td>12 – 13</td>
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**All elevations in Feet NAVD**
Foster City Levee Improvements
Typical Sections Key
As Shown in the Construction Plan

Transition Area Sections:
1) Concrete floodwall on the backside of the levee on the north side of the San Mateo Bridge (approximately 200' long)
2) Trail repaving and realignment under the bridge (approximately 300' long)
3) An earthen levee in combination with a concrete wall until the sheet pile wall starts again (approximately 200' long)

Legend
Section
Earthen Levee
Double Wall
Sheet Pile Wall
Sheet Pile Wall - No Shoulder
Earthen Levee - J Parcel
Other
No Improvements

Bay/Slough Side Wall Treatment Options:
1. Painted steel and cap
2. Painted steel and concrete cap

Trail Side Wall Treatment Options:
1. Painted steel and cap
2. Painted steel and concrete cap
3. Concrete fascia with concrete cap
4. Concrete panels with concrete cap

~$3 Million
~$3.5 Million
~$5 Million
~$5 Million
Typical View between Mariner’s Point and San Mateo Bridge

- Handrail over MSE Block Wall, on Landside of Bay Trail
- Sheet Pile Wall - Painted, on Bay Side of Bay Trail

Levee Access at Beachpark Boulevard and Swordfish Street

- Sheet Pile Wall - covered with Concrete, on Bay Side of Bay Trail
- Sheet Pile Wall covered with Patterned and Stamped Precast Concrete Panels, on Bay Side of Bay Trail
- Sitting Area at Base of Sheet Pile Wall
- Pedestrian Access to Bay Trail
- Driveway Access to Bay Trail

EAST 3RD AVENUE

BEACH PARK BOULEVARD
View A - Transition at Floodbreak adjacent to San Mateo Bridge

View B - Looking East Beneath the San Mateo Bridge/ SR92

Key Plan
Typical View of Access along Beachpark Boulevard
Levee Wall - Concrete Wall with Concrete Cap and 10'-0'' Wide Glass Openings at Access Points

Sheet Pile Wall - Painted, on Bay Side of Bay Trail
Painted Steel Cap

Typical View of Access along Beachpark Boulevard
Levee Wall - Grey Sheetpile Wall with Steel Cap and 10'-0'' Wide Glass Openings at Access Points

Sheet Pile Wall - Painted, on Bay Side of Bay Trail
Painted Steel Cap
View from Port Royal Park

Concrete Wall - on South Side of Bay Trail
<table>
<thead>
<tr>
<th>Genus</th>
<th>Species</th>
<th>Common Name</th>
<th>BCDC Page</th>
<th>BCDC Native</th>
<th>Plant Type</th>
<th>Planting Method</th>
<th>PCS Seed Source **</th>
<th>Source***</th>
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</table>

**Legend:**
- *BCDC = Backyard Garden Center*
- *PCD = Point Conception Design*
- *PCS = Point Conception Seed*
- *BFS = Backyard Florida Seed*
- *Shrubs = Shrub Mix*
- *Perennials = Perennial Mix*
- *Annuals = Annual Mix*
- *Grasses = Grass Mix*

**Notes:**
- *Planting method*: Seedling or Direct Seed
- *PCSD Seed Source*: Santa Barbara Seed Center
- *Source***: Local Nursery
Legend
- ADA Accessible Ramp
- Stairs
- Bench
- Bike Rack
- Pet Litter Station
- Picnic Table
- Trash Recpticle
- Boat Access Ramp
- Public Parking
- Trail Access Point
- Bay Access Point

Foster City Levee Improvements
Access Points and Amenities

1. ADA Accessible Ramp
2. Stairs
3. Bench
4. Bike Rack
5. Pet Litter Station
6. Picnic Table
7. Trash Recpticle
8. Boat Access Ramp
9. Public Parking
10. Trail Access Point
11. Bay Access Point

Services Layer: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
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