AGENDA

- INTRODUCTION - OVERVIEW OF DESIGN BUILD DELIVERY
- REVIEW SCHEMATIC DESIGN REVIEW COMMENTS
- ARCHITECTURAL GUIDELINES
- SCHEMATIC DESIGN OVERVIEW
TREASURE ISLAND BACKGROUND

- Naval Station Treasure Island (NSTI) is a former US Navy base located in the City and County of San Francisco

- Treasure Island Development Authority (TIDA) is responsible for the reuse and development of NSTI and operation and maintenance of all utilities on Treasure Island and Yerba Buena Island (TI/YBI)

- SFPUC provides contracted services to TIDA for O&M of all utilities on TI/YBI through a yearly MOU

- Developer is obligated to construct and fund the new infrastructure for TI/YBI
NEW TI WATER RESOURCE RECOVERY FACILITY

LEGEND
- New TIWRRF
- Existing TIP

Existing Navy TIP Outfall
PROJECT OBJECTIVES

- Address aging infrastructure
- Ensure regulatory compliance
- Meet the wastewater and recycled water needs of the future TI/YBI development
PROJECT TEAM

- Project Manager - Jignesh Desai, SFPUC
- Project Engineer - Calvin Huey, SFPUC
- SFPUC Wastewater Enterprise Liaison - Nohemy Revilla, SFPUC
- Design Consultant - Billy Wong, Stantec
- Lead Architect - Elizabeth Navarro, Stantec
- Landscape Architect - Jamie Beckman, Merrill Morris Partners
CIVIC DESIGN REVIEW COMMENTS FROM SCHEMATIC DESIGN REVIEW PHASE 1 (7.20.2020)

(07/20/2020)  
* https://sfgov.org/arts/node/10244  
The Commissioners commended the project team for revisiting the Civic Design Review Committee's comments from the team's Conceptual Phase presentation. The Commissioners wondered how the equipment will fare in the site's extreme marine context. They also asked the team to consider the site's edging to cue outsiders that there is an edge to the park so that vehicles do not drive over it. The Commissioners would also like the team to consider the water-heavy environment for the project's planting plan.

(01/13/2020)  
* https://sfgov.org/arts/node/10190  
The Committee expressed their concerns regarding the campus's overall lack of continuity with the rest of the proposed Treasure Island master plan, both in layout and materiality. Other Treasure Island structures lie along the diagonal urban blueprint of the Island, while this treatment plant would disrupt the diagonal. The Committee insisted that the team revisit the campus's point of view, and that they ask themselves, given the early-staged nature of Treasure Island's development, “What will make this Treasure Island?” They also asked the project team to consider small creatures when building fencing around the structures. The Committee was very content with the progressive environmental aspects as well as the aesthetics and possibility for community engagement of the proposed wetlands.
ADMINISTRATION BUILDING

CAST IN PLACE CONCRETE

NORTH ELEVATION

WEST ELEVATION

SOUTH ELEVATION

EAST ELEVATION
MAINTENANCE BUILDING

CAST IN PLACE CONCRETE
ADMINISTRATION BUILDING FACADE

PERIMETER ENCLOSURE

CLEARVU INVISIBLE FENCE

MAINTENANCE BUILDING FACADE

CIP CONCRETE
All plants are native or adapted to the region and low water use. Plants have been selected that will thrive in shade and sun based on exposure.

Irrigation
An automatic irrigation system will be provided for all planted areas, utilizing a smart ET weather based controller and subsurface in-line drip-emitter tubing. The irrigation system will be connected to the appropriate domestic water line and will include a backflow prevention device. Use rotary irrigation at bottom of basin.

- **Achillea millefolium** Common Yarrow
- **Festuca k-image-125** Pacific Fescue
- **Hardenia brasiliensis** Meadow Berky
- **Lupinus brevifolius** Miniature Lupine
- **Stipa pulchra** Purple Needlegrass
- **Bromus carinatus** Brome Grass
- **Deschampsia cespitosa** Slender Hairgrass
- **Drosera californica** California Pitcher
- **Festuca k-image-125** Idaho Fescue
- **Lupinus nanus** Sky Lupine
PLANT PALETTE - COASTAL SCRUB

Achillea millefolium
Common Yarrow

Artemisia californica
California Sagebrush

Baccharis pilulifera
Tall Coyote Broom

Camissonia cheiranthifolia
Beach Evening Primrose

Lupinus arboreus 'Coastal Yellow'
Coastal Yellow Tree Lupine

Mimulus aurantiacus
Sticky Monkey Flower

Myrica californica
Pacific Wax Myrtle

Castilleja affinis
Indian Paintbrush

Ceanothus thyrsiflorus
Blue Blossom

Dichlis spicata var. stricta
Great Basin Salt Grass

Eriogonum latifolium
Seaside Buckwheat

Eriophyllum lanatum
Common Woolly Sunflower

Frangula californica
California Coffeeberry

Grindelia hirsutula
Hairy Gumweed

Heteromeles arbutifolia
Toyoni

Leymus arenarius 'Glaucus'
Blue Wild Rye

Leymus triticoides
Creeping Wild Rye

Lupinus arboreus 'Coastal Lavender'
Tree Lupine

SITE KEY PLAN
PLANT PALETTE - DETENTION BASIN

Achillea millefolium
Common Yarrow

Arbutus ‘Marina’
Marina Strawberry Tree

Carex tenuifolia
Berkeley Sedge

Cercis occidentalis
Western Redbud

Geijera parviflora
Australian Willow

Juncus patens
California Gray Rush

Lagerstroemia indica
Crape Myrtle

Lagerstroemia indica ‘Acoma’
Acoma Crape Myrtle

Laurus nobilis ‘Saratoga’
Saratoga Sweet Bay

Leymus arenarius ‘Glaucus’
Blue Wild Rye

Mimulus aurantiacus
Sticky Monkey Flower

Quercus agrifolia
Coast Live Oak

Quercus ilex
Holly Oak

Quercus suber
Cork Oak

Quercus wilsonii
Interior Live Oak

Tristania xsp. Laurina ‘Elegant’
Elegant Water Gum

SITE KEY PLAN
PLANT PALETTE - AVE M

Achillea millefolium
Common Yarrow

Bromus carinatus
Brome Grass

Deschampsia elongata
Slender hairgrass

Eschscholzia californica
California Poppy

Festuca Microstachys
Pacific Fescue

Festuca idahoensis
Idaho Fescue

Hordeum brachyantherum
Meadow Barley

Lupinus bicolor
Miniature Lupine

Lupinus nanus
Sky Lupine

Stipa pulchra
Purple Needlegrass

SITE KEY PLAN
PLANT PALETTE - ORNAMENTAL NATIVE PLANTING

Andromeda polifolia 'Blue Ice'
Blue Ice Big Rosemary

Anigozanthos flavidus 'Bush Pearl'
Bush Pearl Kangaroo Paws

Asparagus densiflorus 'Myers'
Myers Asparagus

Carex turgida
Berkeley Sedge

Cercois occidentalis
Western Redbud

Dietes iridioides
African Iris

Eriobotrya deflexa
Bronze Loquat

Festuca glauca
Blue Fescue, Blue Fescue Grass

Leontis leonurus
Lion's Tail

Lamandra confertifolia
Mat Rush

Olea europea 'Swan Hill'
Swan Hill Olives/B-Tree

Phormium 'Amazing Red'
Amazing Red N.Z. Flax

Raphiolepis indica 'Springtime'
Springtime Indian Hawthorn

Salvia leucantha 'Midnight'
Midnight Sage
PARCEL BOUNDARY & PERIMETER SECURITY ENCLOSURE
SITE CONSTRAINTS AND PARCEL DELINEATION
TI WRRF - PERIMETER ENCLOSURE

Clearvu - Technical Specification

SPECIFICATION

<table>
<thead>
<tr>
<th>NO#</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>PANEL</td>
<td>CLEARVU MESH PANELS (10’-10’-1/8&quot;) 3305mm x (3’9’)/4mm HIGH GALVANIZED WIRE. PANEL FORMATION PANEL REINFORCED WITH 2 x ‘V’ FORMATION HORIZONTAL RECESSED BANDS (RIGIDITY), 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH. LINE WIRE SECURE CONNECTION, LOCKING RECESS MECHANISM AND 1 X 30° FLANGE AT TOP AND 1 X 90° FLANGE AT TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.</td>
</tr>
<tr>
<td>1B</td>
<td>PANEL</td>
<td>CLEARVU MESH PANELS (10’-10’-1/8&quot;) 3305mm x (3’9’)/4mm HIGH GALVANIZED WIRE. PANEL FORMATION PANEL REINFORCED WITH 4 x ‘V’ FORMATION HORIZONTAL RECESSED BANDS (RIGIDITY), 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH. LINE WIRE SECURE CONNECTION, LOCKING RECESS MECHANISM AND 1 X 30° FLANGE AT TOP AND 1 X 90° FLANGE AT TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.</td>
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<tr>
<td>2</td>
<td>POST</td>
<td>COCHRANE SQUARE POST, SEALED WITH STEEL CAPS. COATING: GALVANIZED, THEN STRUCTURAL MARINE GRADE COATED.</td>
</tr>
<tr>
<td>3</td>
<td>CLAMPS</td>
<td>SINGLE BOLT COMB CLAMPS. DOUBLE BOLT COMB CLAMPS. COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.</td>
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<tr>
<td>4</td>
<td>FOUNDATION</td>
<td>Ø32 x 6’-9’ DEEP CONCRETE.</td>
</tr>
<tr>
<td>5</td>
<td>CLAMP</td>
<td>SHADOW CLAMP.</td>
</tr>
<tr>
<td>6</td>
<td>ANTI-SCALE</td>
<td>COCHRANE ANTI-SCALE</td>
</tr>
</tbody>
</table>

CLIENT APPROVAL

TREASURE ISLAND WRRF - CIVIC DESIGN SCHEMATIC - PHASE 2 REVIEW

AUGUST 21, 2023
TI WRRF - VEHICULAR GATE

Single Leaf Sliding Gate - Technical Specification

30' Wide x 10' High Gate
TI WRRF - WETLAND FENCE AND GATE

MESH FENCE

- **Plan**: Detention Basin
  - Planting
  - Top Soil
  - Subgrade Soil
  - Concrete Footing
  - Galvanized Steel Wire Mesh, Attached to Back Side of Wood Posts
  - 6" Dia. Pressure Treated Wood Post

- **Section**: Galvanized Steel Wire Mesh, Attached to Back Side of Wood Posts
  - 6" Dia. Pressure Treated Wood Post

- **Elevation**: Galvanized Steel Wire Mesh, Attached to Back Side of Wood Posts
  - 6" Dia. Pressure Treated Wood Post
  - 4' O.C.

- **Elevation**: 3x2 Grid, Attached to Back Side of Wood Posts
  - 6" Dia. Pressure Treated Wood Post
  - Finished Grade

**Notes:**
1. Fence Post and Rail to be Continuous Connection
2. Fabricator to Submit Shop Drawings to LA for Review Prior to Construction.
EXTERIOR SIGNAGE AND GRAPHICS

- Non-Directional Brush Finish
- Staff Door/Gate
- Recessed Door
- Channel Internally Face Lit
- Surface Mount Individual Numbers
- Lexan Face for Daytime Visibility
- Elegant Design/Specialty Graphics

FACE ILLUMINATED
CHANNEL LETTERS - INTERNALLY

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TOUR AROUND THE FACILITY - AVENUE M

NOTE:
FUTURE ROAD IMPROVEMENTS WILL TAKE PLACE APPROXIMATELY IN 2028 AND FUTURE FORCE MAINS IN 2033.

EXISTING SWITCH YARD
TOUR AROUND THE FACILITY - SOUTH ENTRY AND ADMINISTRATION BUILDING
TOUR AROUND THE FACILITY - ADMINISTRATION BUILDING - PUBLIC ART OPPORTUNITIES

POSSIBLE ART ENRICHMENT OPPORTUNITY LOCATION
POSSIBLE ART ENRICHMENT OPPORTUNITY LOCATION
TOUR AROUND THE FACILITY - NORTH ENTRY
TOUR AROUND THE FACILITY - NORTH ENTRY
TOUR AROUND THE FACILITY - NORTHERN SHORELINE PARK AND WETLANDS
TOUR AROUND THE FACILITY - NORTHERN SHORELINE PARK AND WETLANDS
THANK YOU
QUESTIONS, ANSWERS AND DISCUSSION