

TREASURE ISLAND

WATER RESOURCE RECOVERY FACILITY

SFAC - CIVIC DESIGN REVIEW
PHASE 2 - DESIGN DEVELOPMENT

STANTEC | MERRILL MORRIS PARTNERS LANDSCAPE ARCHITECTURE | PCL CONSTRUCTION



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

AUGUST 21, 2023

TREASURE ISLAND - WATER RESOURCE RECOVERY FACILITY

SFAC - CIVIC DESIGN REVIEW - PHASE 2 DESIGN DEVELOPMENT

AGENDA

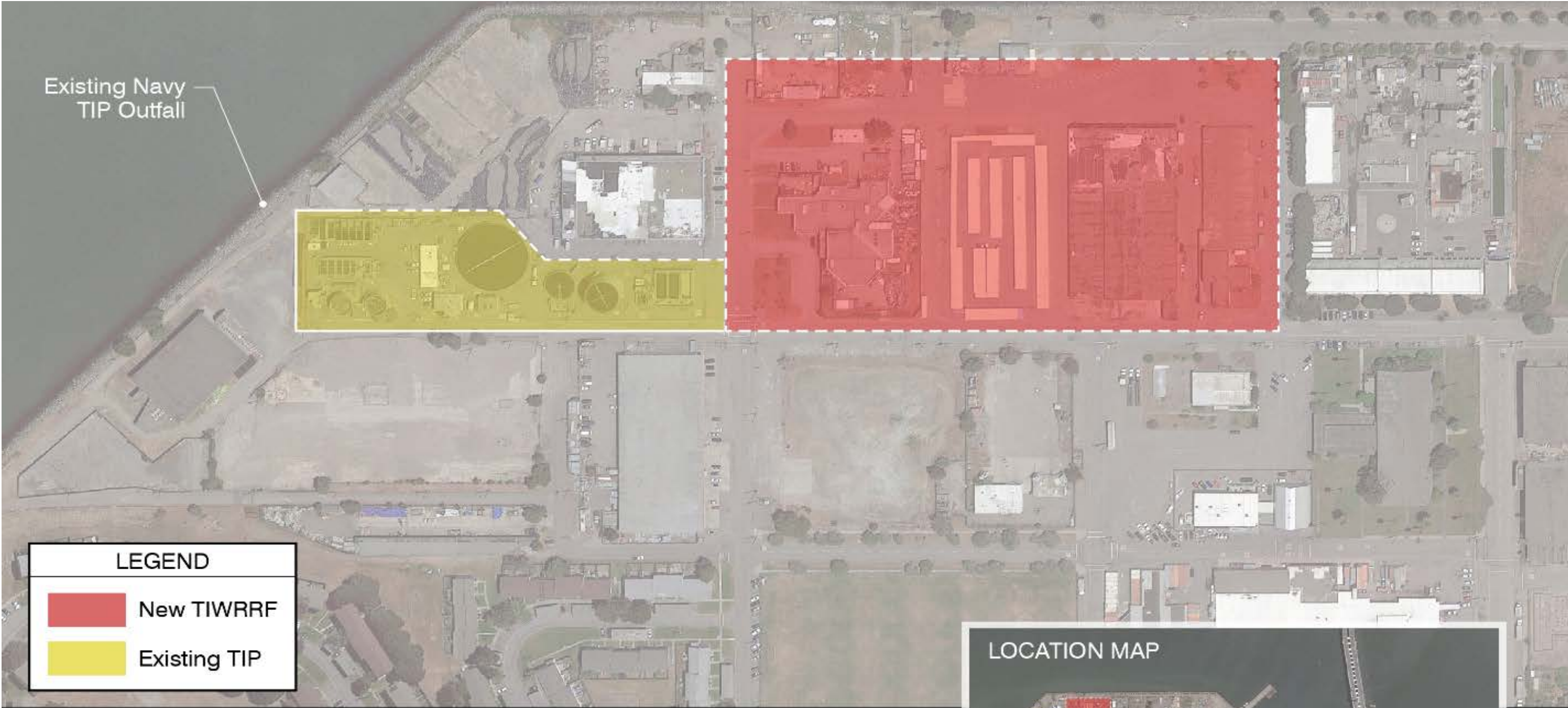
- INTRODUCTION - OVERVIEW OF DESIGN BUILD DELIVERY
- REVIEW SCHEMATIC DESIGN REVIEW COMMENTS
- ARCHITECTURAL GUIDELINES
- SCHEMATIC DESIGN OVERVIEW

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



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)

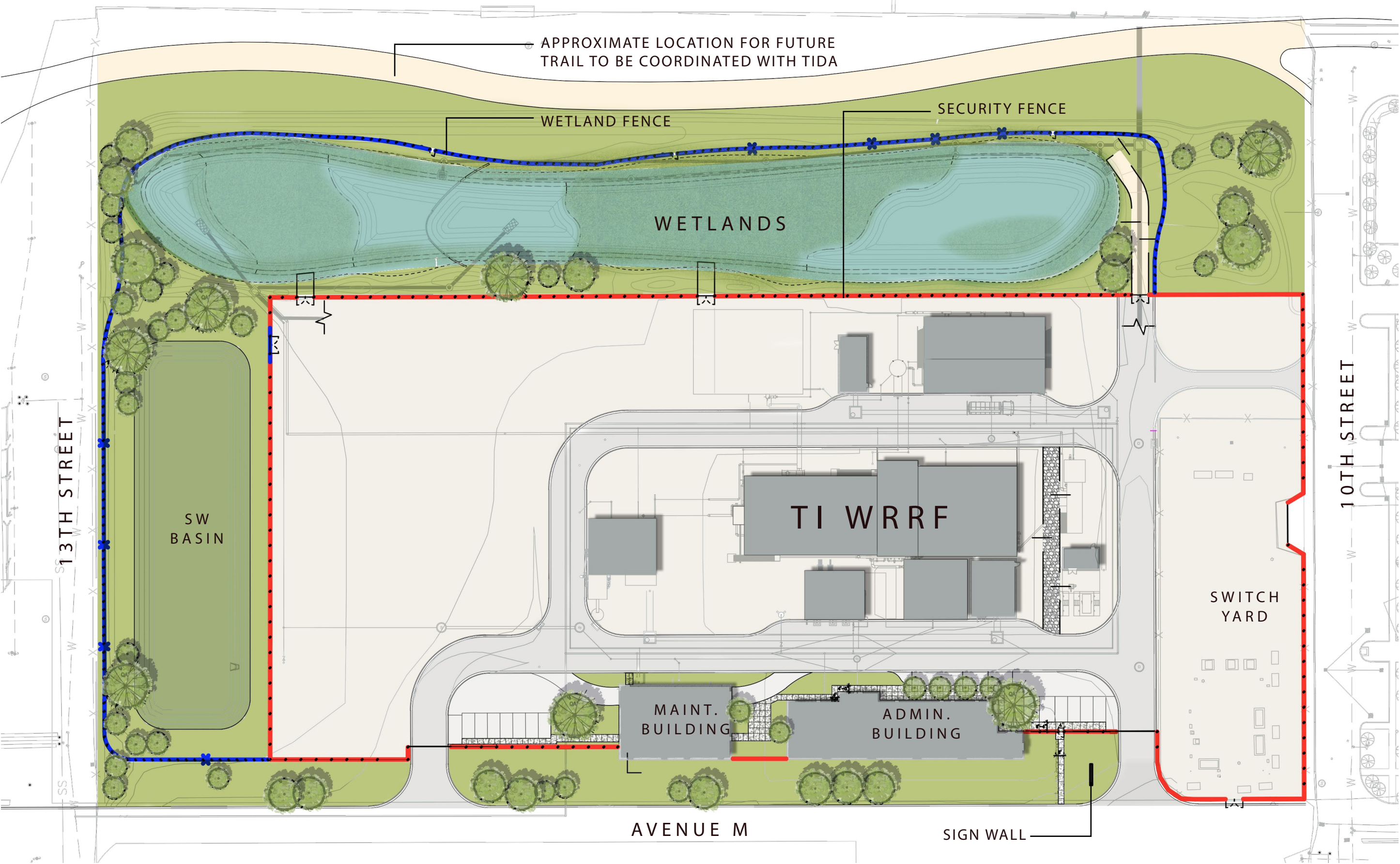
* <https://sfgov.org/arts/node/10190>

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, "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.



TI WRRF - PREVIOUS PERIMETER LAYOUT

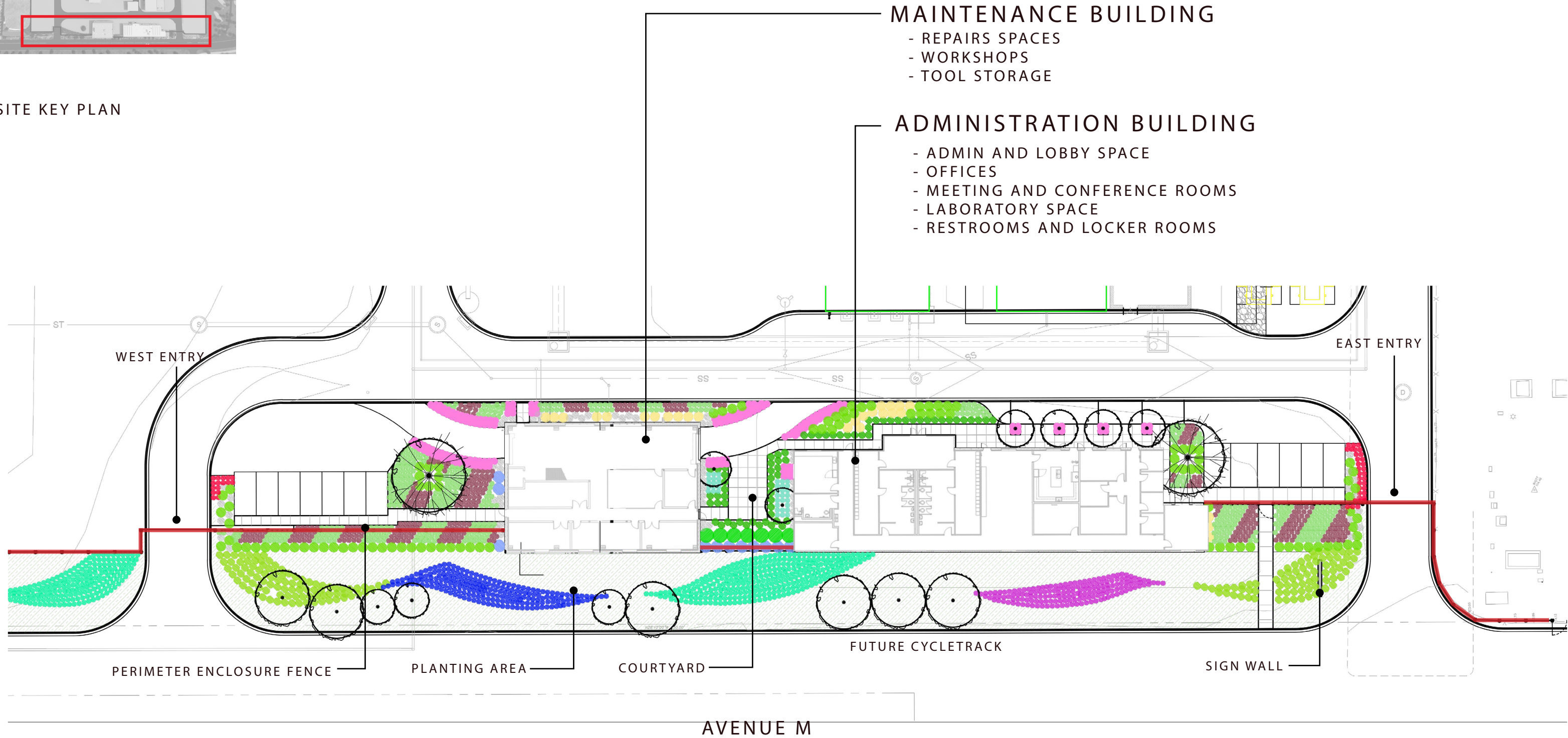


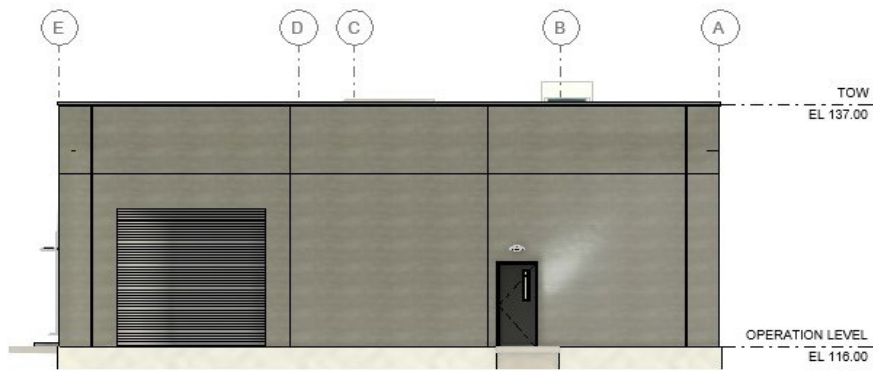


ADMINISTRATION AND MAINTENANCE BUILDINGS - CONCEPTUAL PLAN

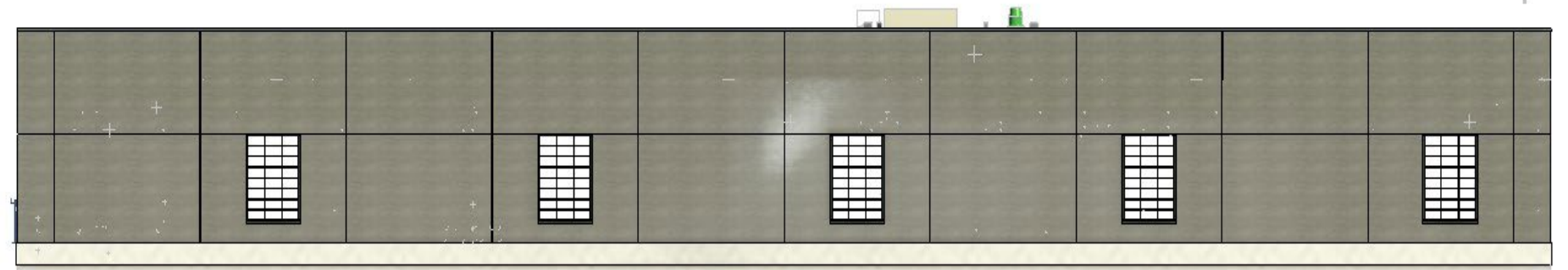


SITE KEY PLAN





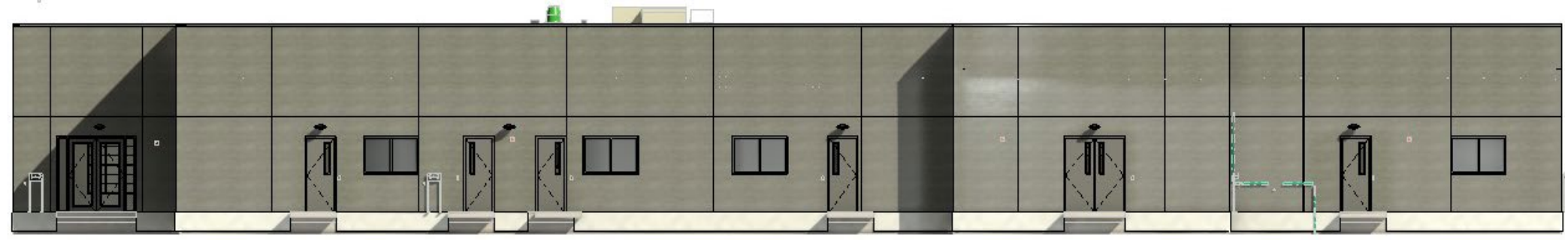
NORTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"



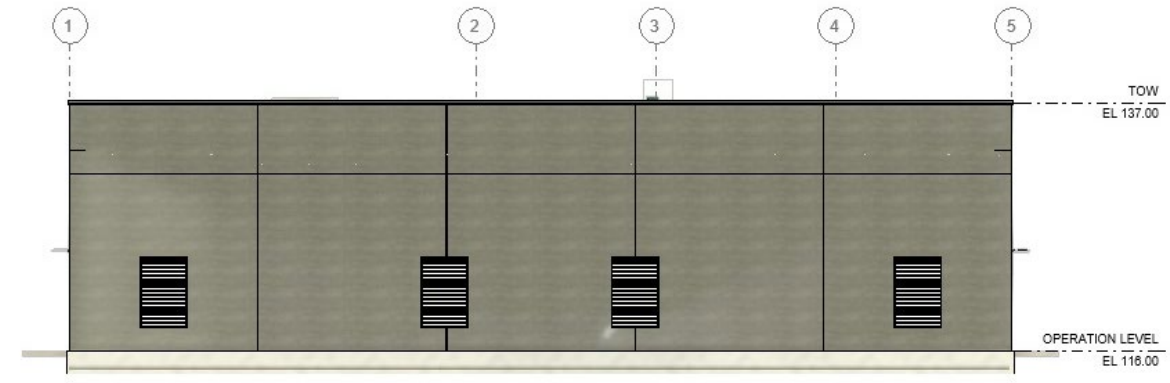
EAST ELEVATION
1/8" = 1'-0"



ADMINISTRATION BUILDING



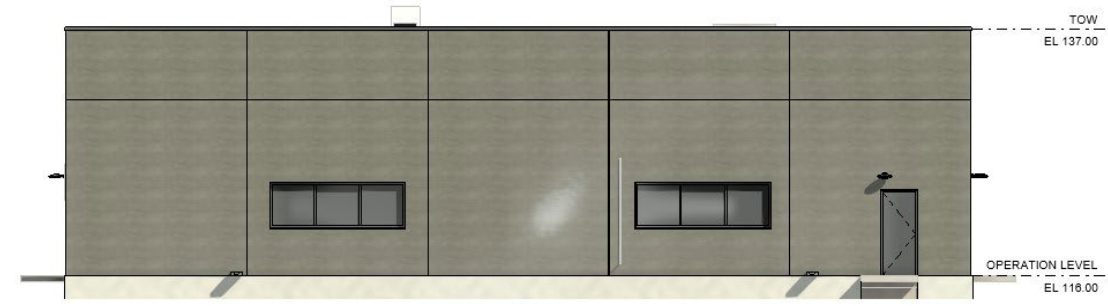
NORTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"



MAINTENANCE BUILDING

ADMINISTRATION AND MAINTENANCE BUILDINGS - WEST ELEVATION - MATERIAL COHESION



CIP CONCRETE



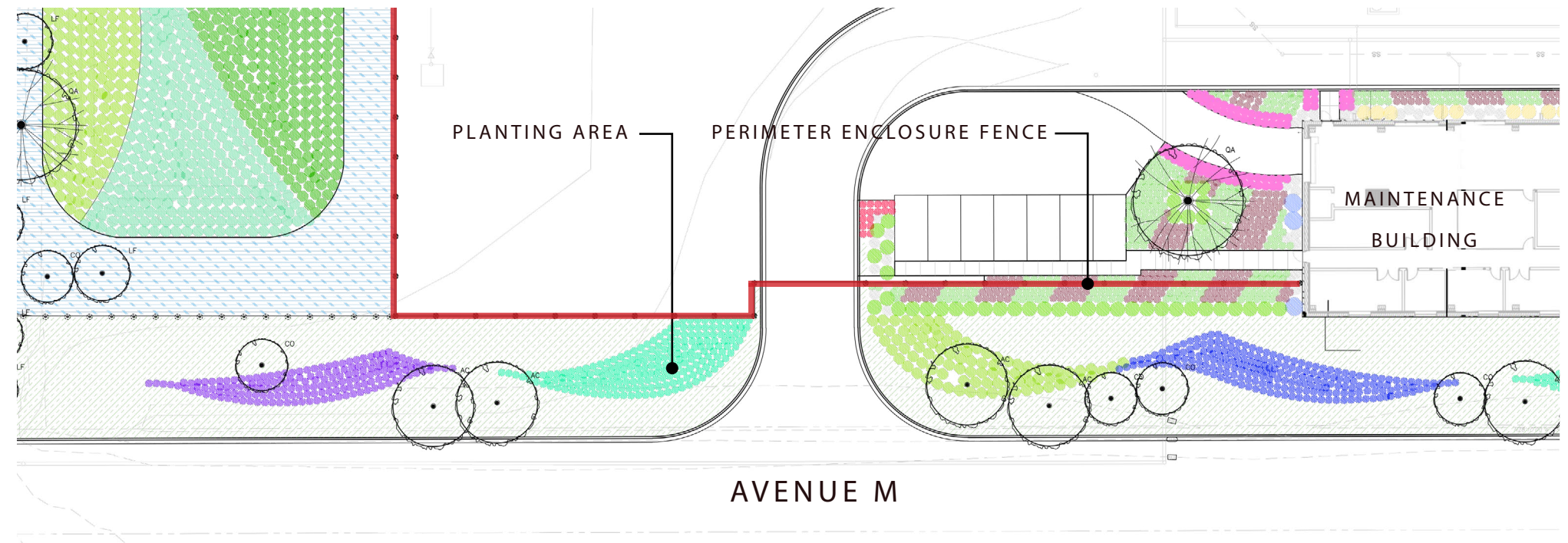
ADMINISTRATION AND MAINTENANCE BUILDINGS - WEST AND EAST GATE PLANTING PLAN



SITE KEY PLAN

PLANTS
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 Microstachys
Pacific Fescue



Hordeum brachyantherum
Meadow Barley



Lupinus bicolor
Miniature Lupine



Stipa pulchra
Purple Needlegrass



Bromus carinatus
Brome Grass



Deschampsia elongata
Slender hairgrass



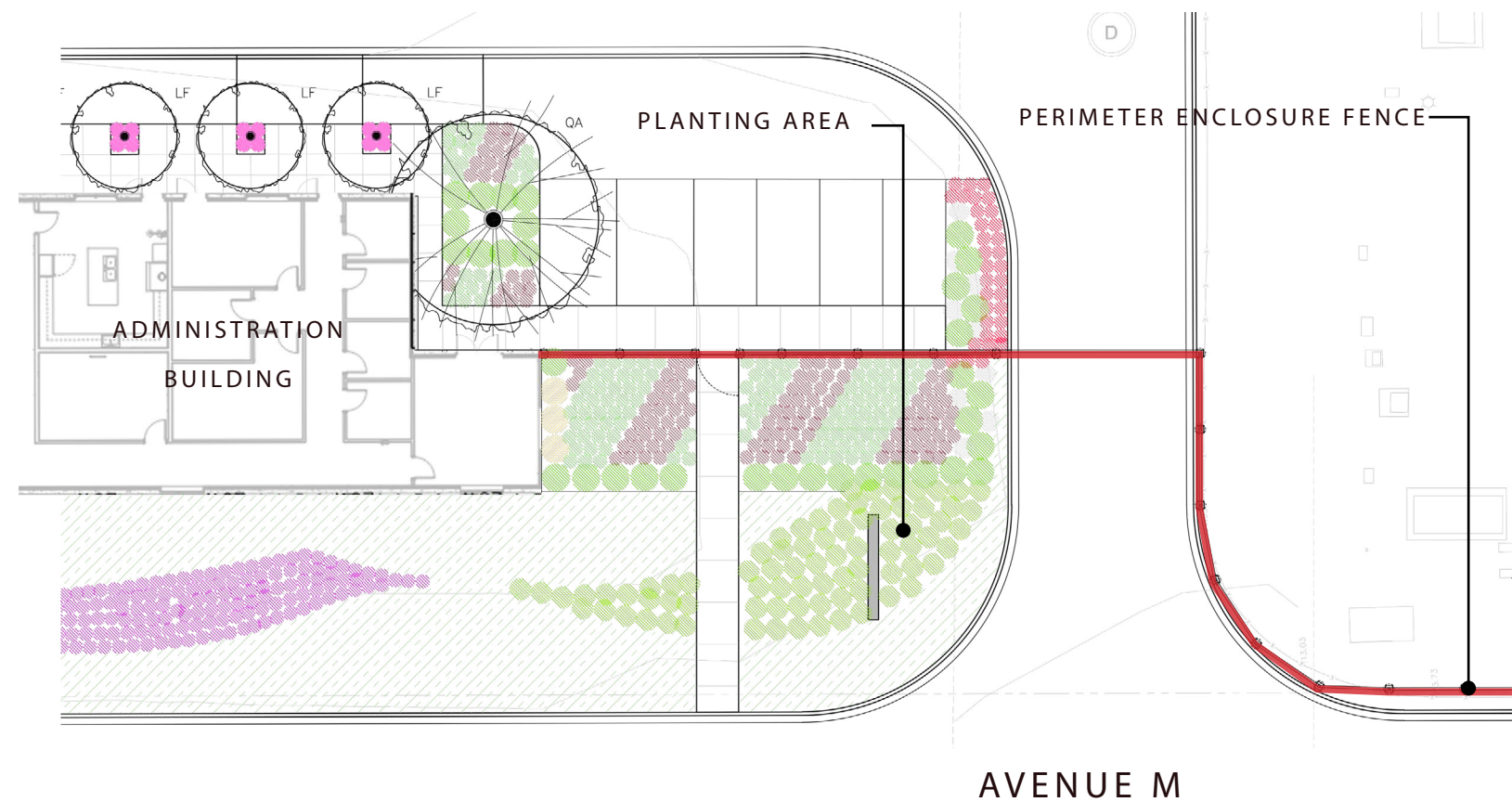
Eschscholzia californica
California Poppy



Festuca idahoensis
Idaho Fescue



Lupinus nanus
Sky Lupine



PLANT PALETTE - COASTAL SCRUB



Achillea millefolium
Common Yarrow



Artemisia californica
California Sagebrush



Baccharis pilularis v. consanguineum
Tall Coyote Brush



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 Blossum



Distichlis spicata var. stricta
Great Basis Salt Grass



Ericameria ericoides
Mock Heather



SITE KEY PLAN



Eriogonum latifolium
Seaside Buckwheat



Eriophyllum lanatum
Common Woolly Sunflower



Frangula californica
California Coffeeberry



Grindelia hirsutula
Hairy Gumweed



Heteromeles arbutifolia
Toyon



Leymus arenarius 'Glaucus'
Blue Wild Rye



Leymus triticoides
Creeping Wild Rye



Lupinus arboreus 'Coastal Lavender'
Tree Lupine

PLANT PALETTE - DETENTION BASIN



Achillea millefolium
Common Yarrow



Arbutus 'Marina'
Marina Strawberry Tree



Carex tumulicola
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 wislizenii
Interior Live Oak



Tristaniopsis laurina 'Elegant'
Elegant Water Gum



SITE KEY PLAN

PLANT PALETTE - AVE M



Achillea millefolium
Common Yarrow



Bromus carinatus
Brome Grass



Deschampsia elongata
Slender hairgrass



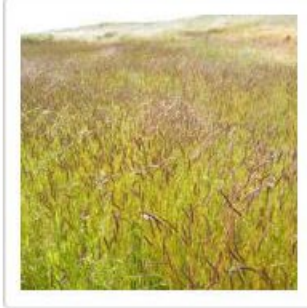
Eschscholzia californica
California Poppy



Festuca Microstachys
Pacific Fescue



Festuca idahoensis
Idaho Fescue



Hordeum brachyantherum
Meadow Barley



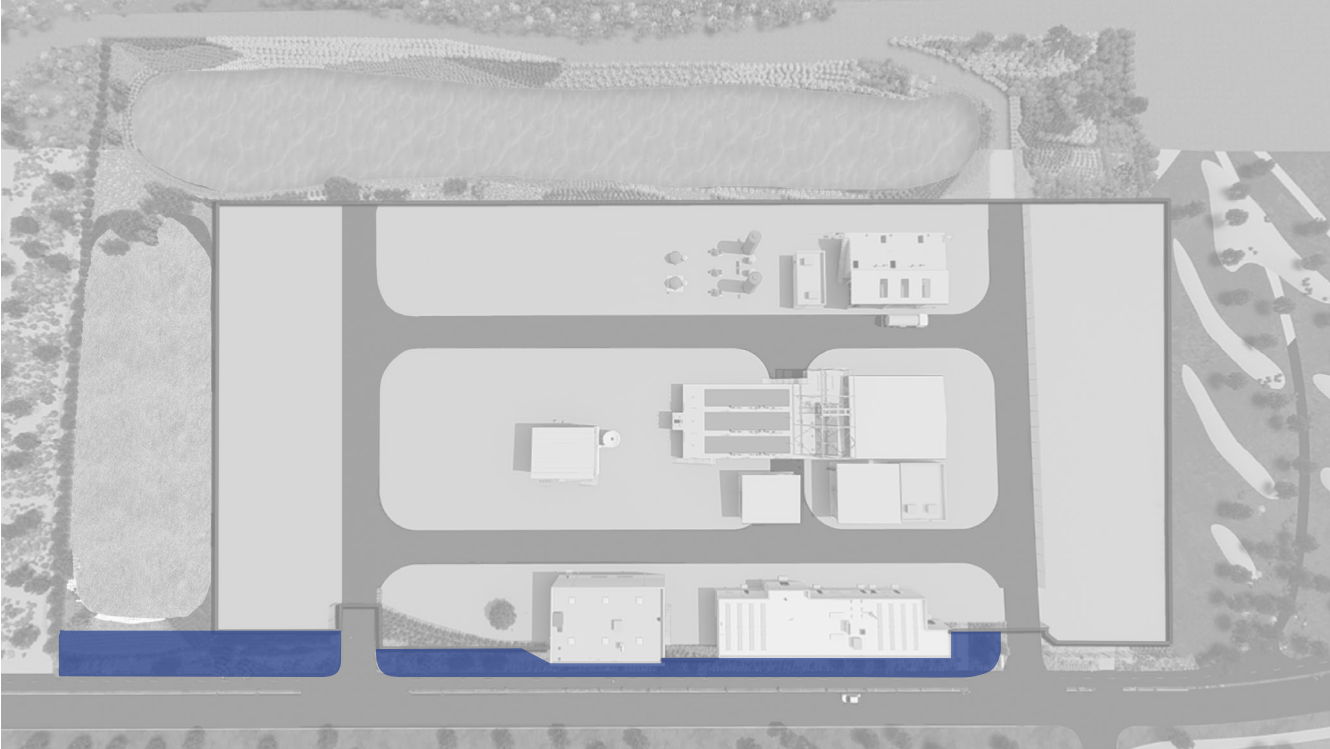
Lupinus bicolor
Miniature Lupine



Lupinus nanus
Sky Lupine



Stipa pulchra
Purple Needlegrass



SITE KEY PLAN

PLANT PALETTE - ORNAMENTAL NATIVE PLANTING



Andromeda polifolia 'Blue Ice'
Blue Ice Bog Rosemary



Anigozanthos flavidus 'Bush Pearl'
Bush Pearl Kangaroo Paws



Asparagus densiflorus 'Myers'
Myers Asparagus



Carex tumulicola
Berkeley Sedge



Cercis occidentalis
Western Redbud



Dietes iridioides
African Iris



Eriobotrya deflexa
Bronze Loquat



Festuca glauca
Blue Fescue, Blue Fescue Grass



Leonotis leonurus
Lion's Tail



Lomandra confertifolia
Mat Rush



Olea europaea 'Swan Hill'
Swan Hill Olives® Tree



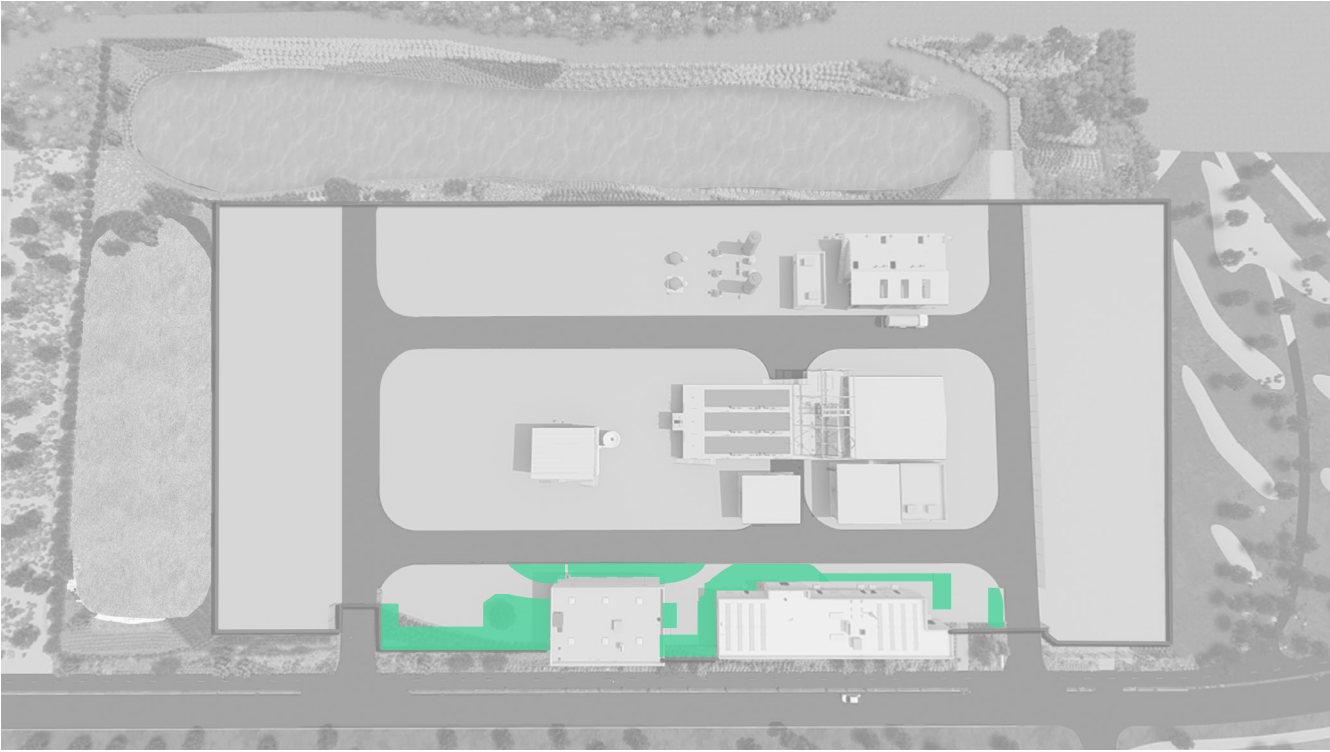
Phormium 'Amazing Red'
Amazing Red N.Z. Flax



Raphiolepis indica 'Springtime'
Springtime Indian Hawthorn



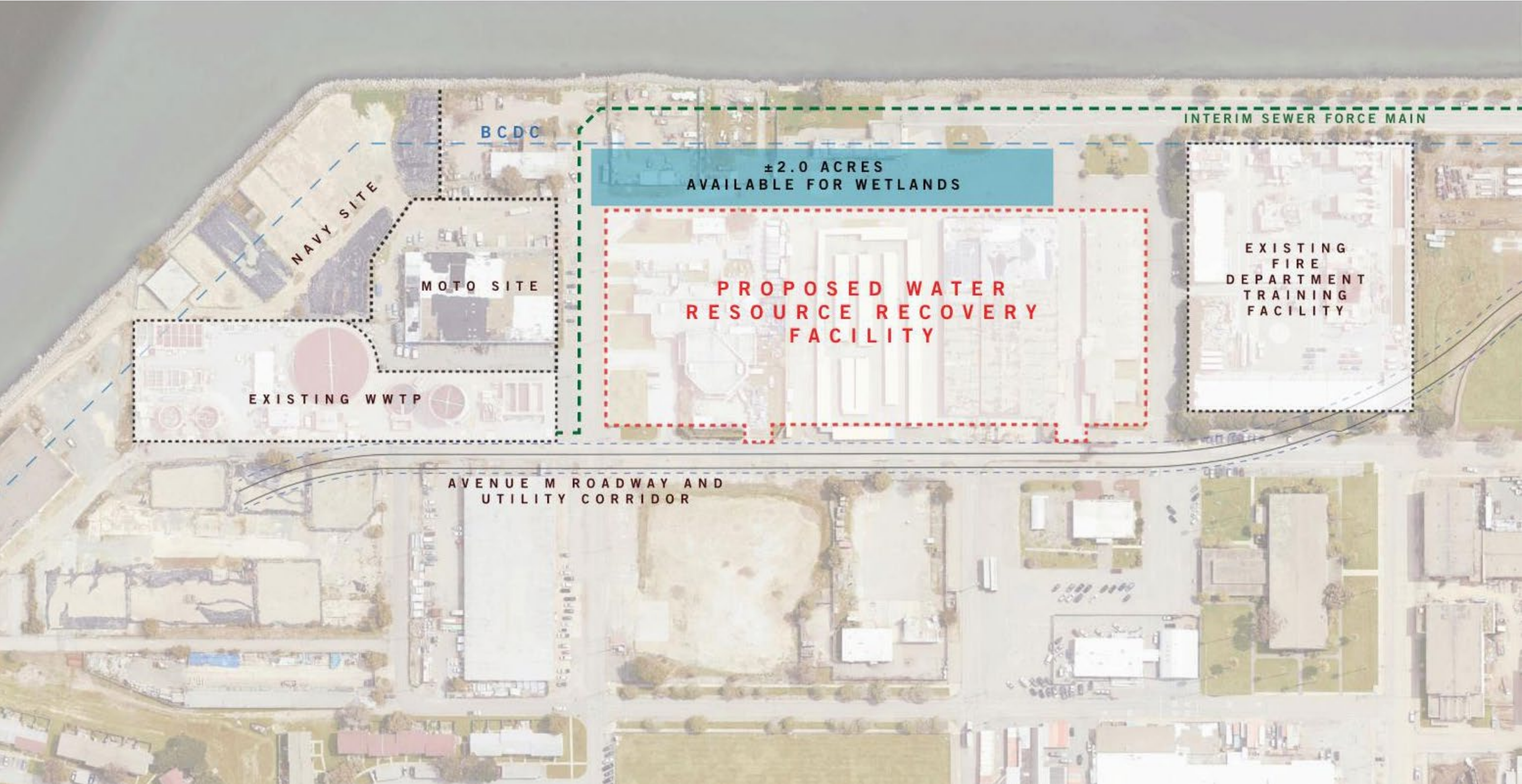
Salvia leucantha 'Midnight'
Midnight Sage



SITE KEY PLAN

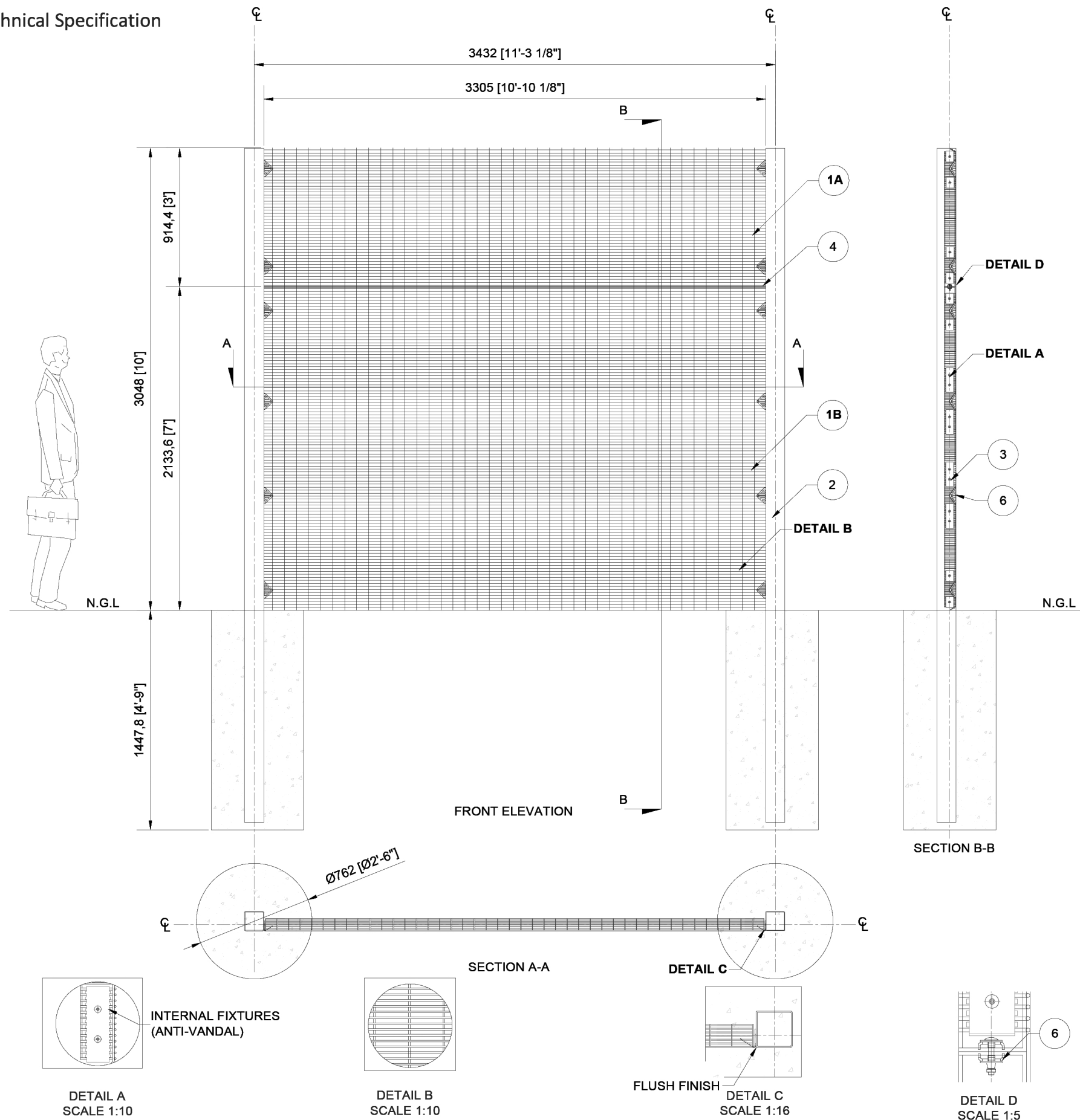
PARCEL BOUNDARY & PERIMETER SECURITY ENCLOSURE

SITE CONSTRAINTS AND PARCEL DELINEATION



TI WRRF - PERIMETER ENCLOSURE

Clearvu - Technical Specification



SPECIFICATION

CLEARVU INVISIBLE WALL PANEL

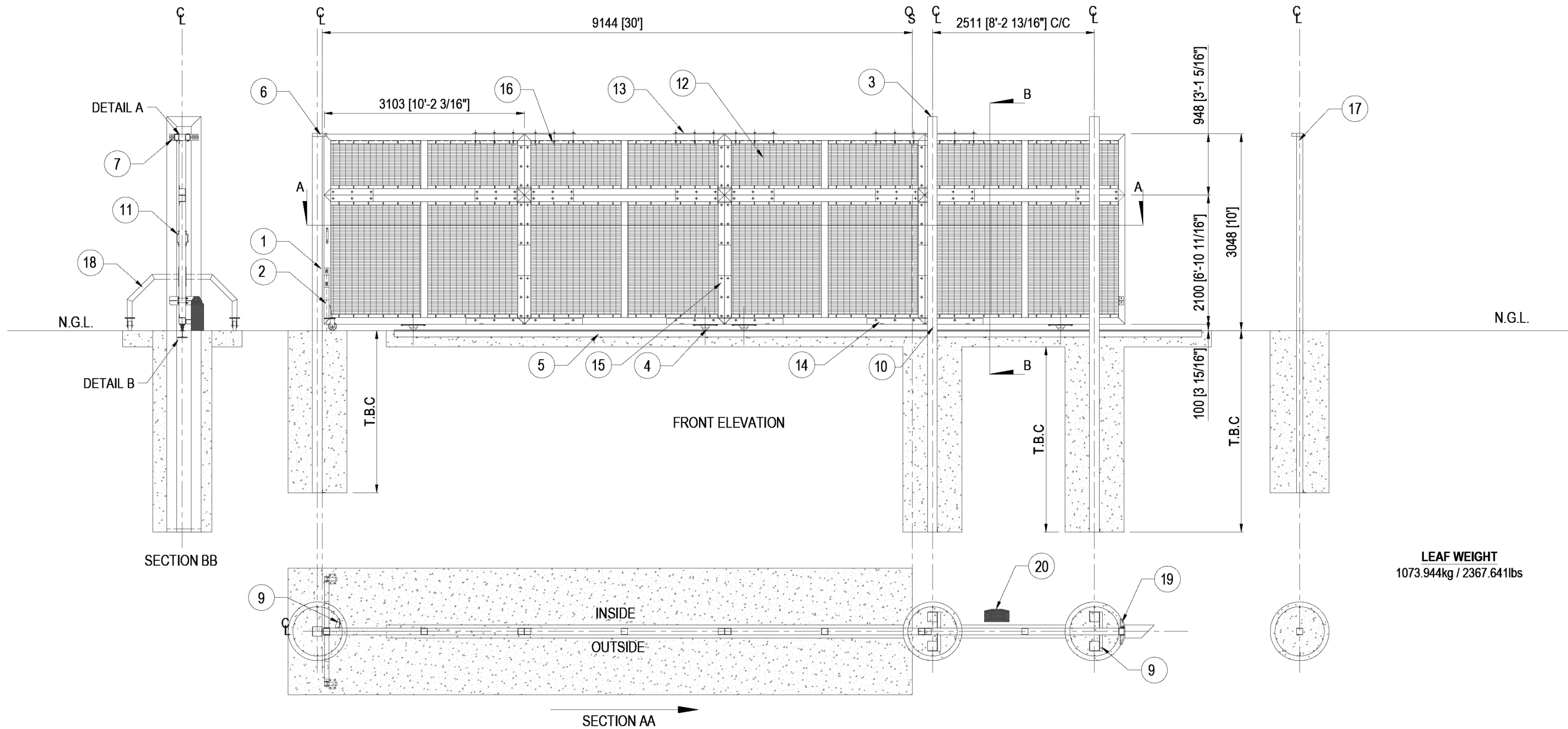
NO#	ITEM	DESCRIPTION
1A	PANEL	CLEARVU MESH PANELS [10'-10 1/8"]3305mm WIDE x [3']914.4mm HIGH GALVANIZED WIRE. PANEL FORMATION: PANEL REINFORCED WITH 2 x 'V' FORMATION HORIZONTAL RECESSED BANDS (RIGIDITY), 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH, 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.
1B	PANEL	(PATENTS AND DESIGN REGISTRATIONS APPLY) CLEARVU MESH PANELS [10'-10 1/8"]3305mm WIDE x [7']2133.6mm 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 90° FLANGE AT TOP AND 1 X 30° FLANGE AT TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
2	POST	(PATENTS AND DESIGN REGISTRATIONS APPLY) COCHRANE SQUARE POST, SEALED WITH STEEL CAPS. COATING: GALVANIZED, THEN STRUCTURAL MARINE GRADE COATED.
3	CLAMPS	SINGLE BOLT COMB CLAMPS. DOUBLE BOLT COMB CLAMPS. COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
4	FOUNDATION	Ø30' x 4'-9" DEEP CONCRETE.
5	CLAMP	SHADOW CLAMP.
6	ANTI-SCALE	COCHRANE ANTI-SCALE

CLIENT APPROVAL

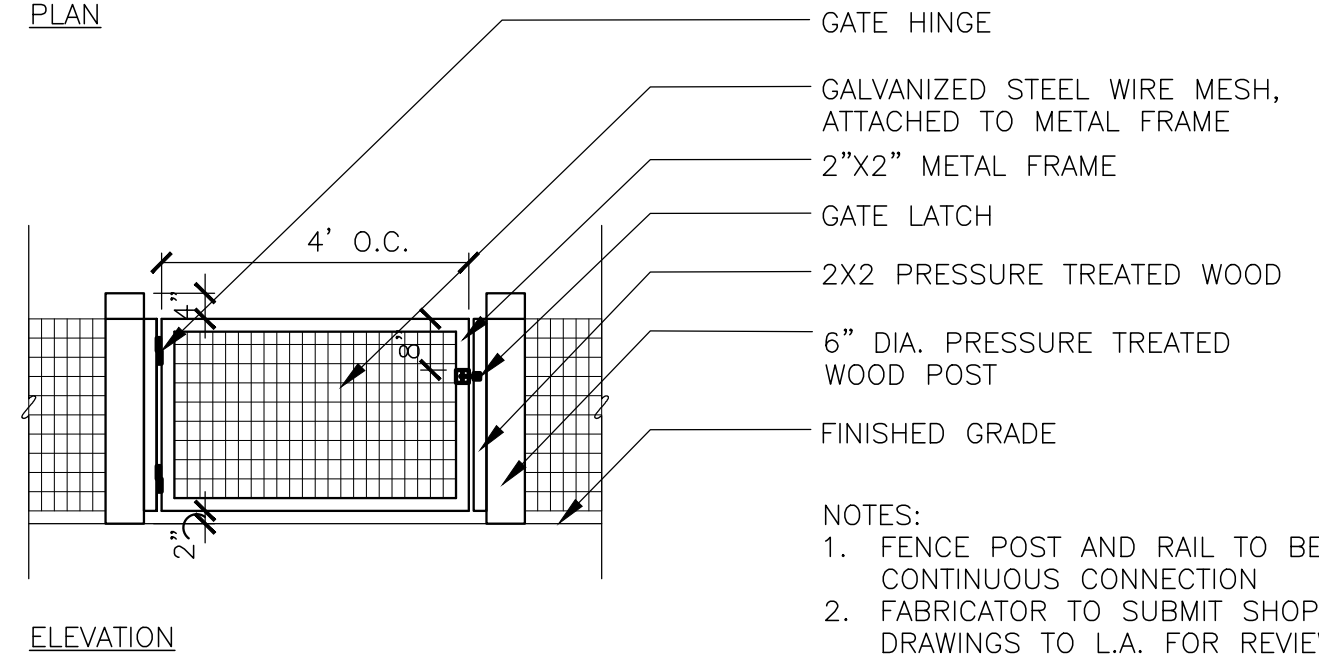
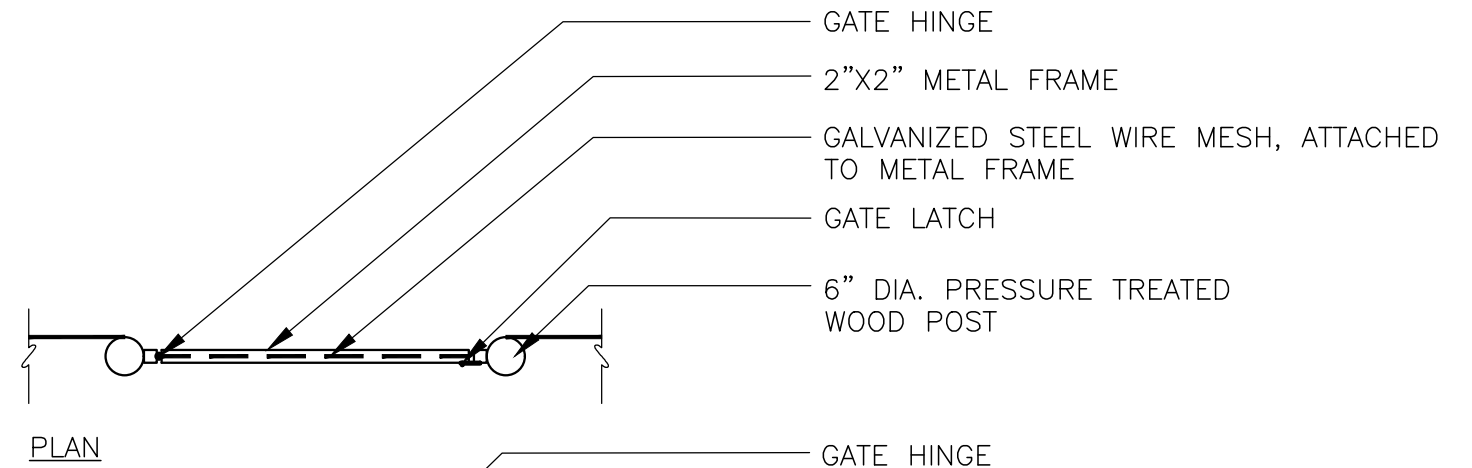
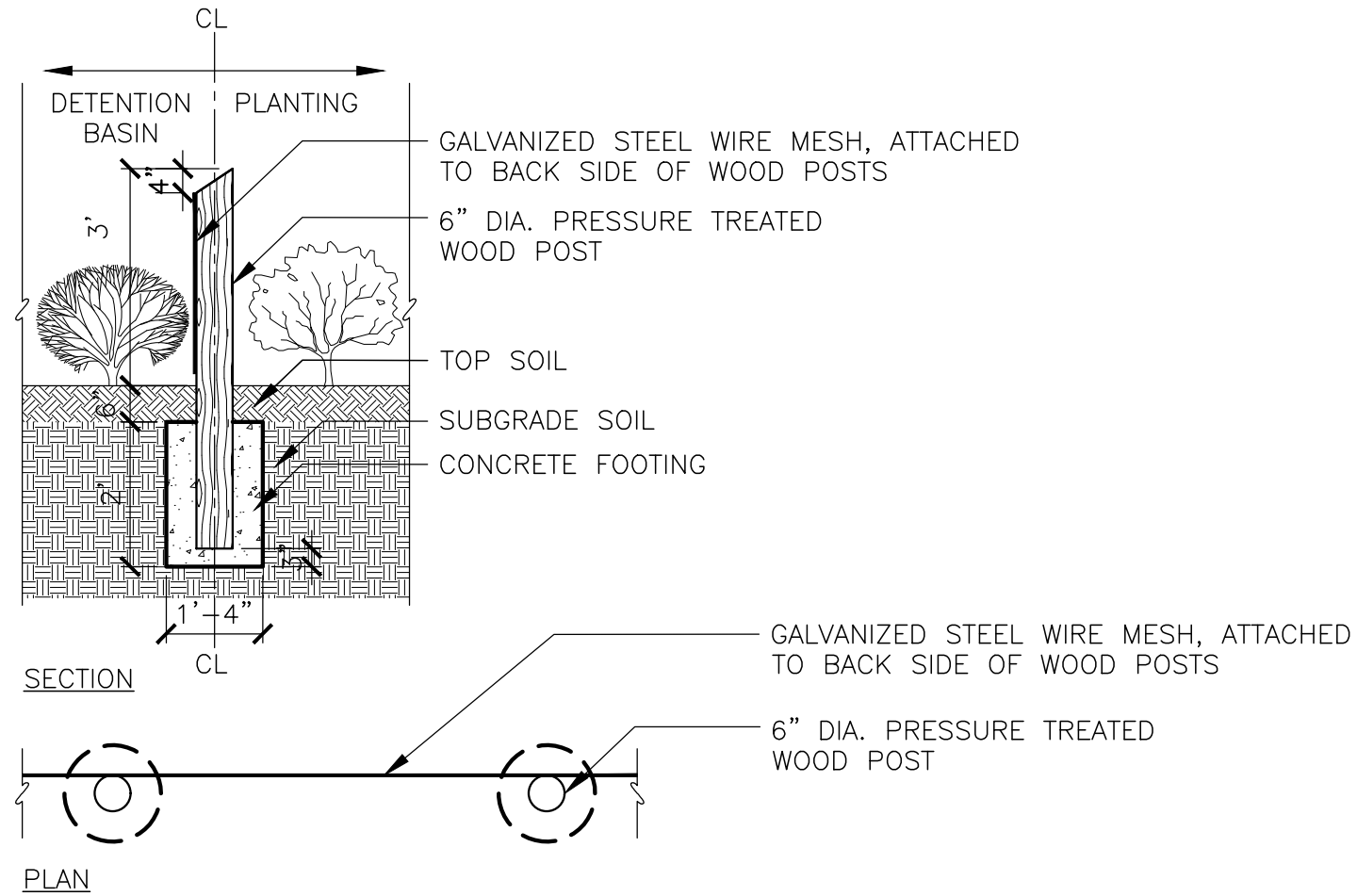
TI WRRF - VEHICULAR GATE

Single Leaf Sliding Gate - Technical Specification

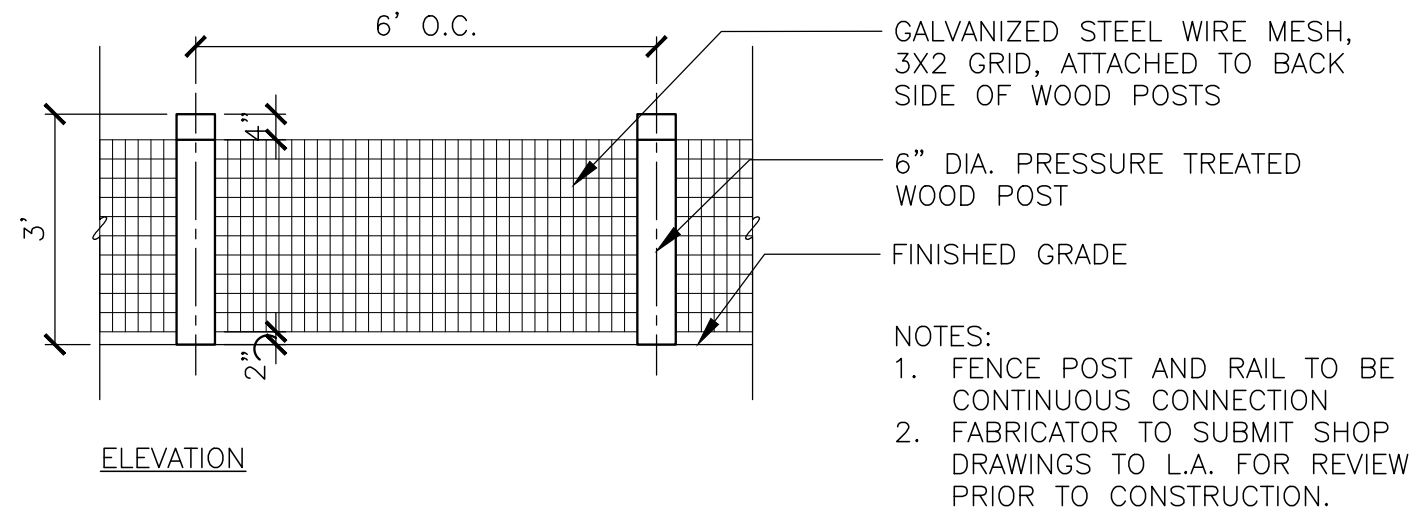
30' Wide x 10' High Gate



TI WRRF - WETLAND FENCE AND GATE



- NOTES:
1. FENCE POST AND RAIL TO BE CONTINUOUS CONNECTION
 2. FABRICATOR TO SUBMIT SHOP DRAWINGS TO L.A. FOR REVIEW PRIOR TO CONSTRUCTION.



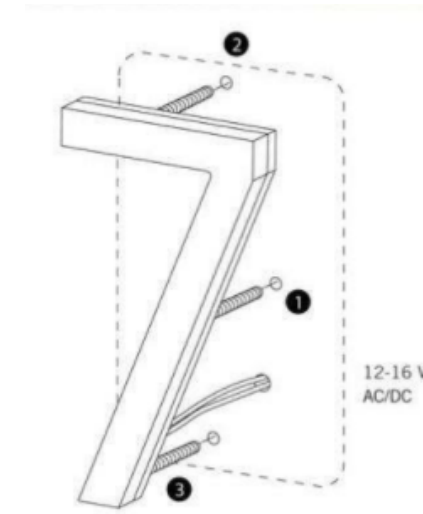
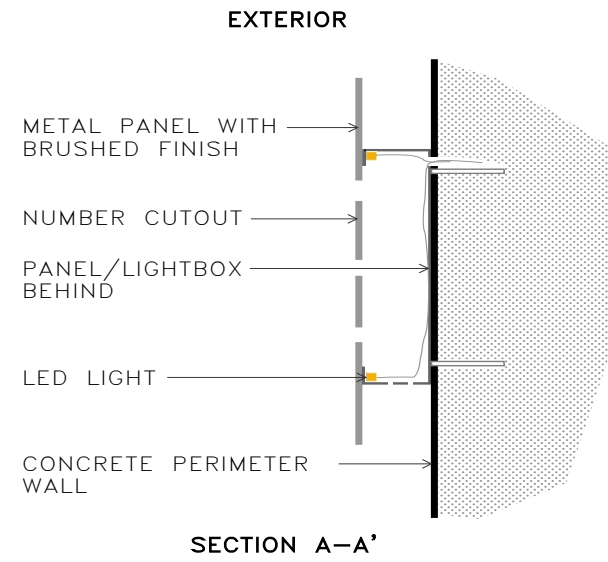
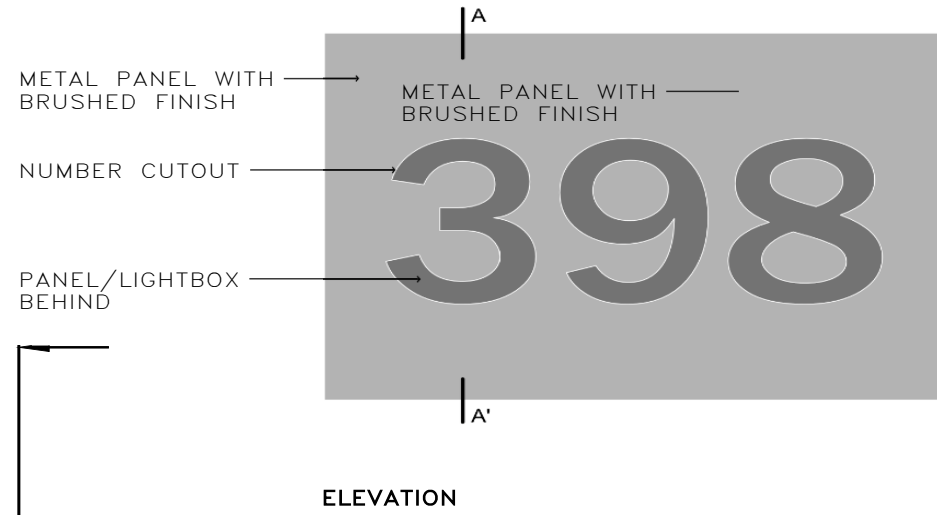
MESH FENCE



EXTERIOR SIGNAGE AND GRAPHICS

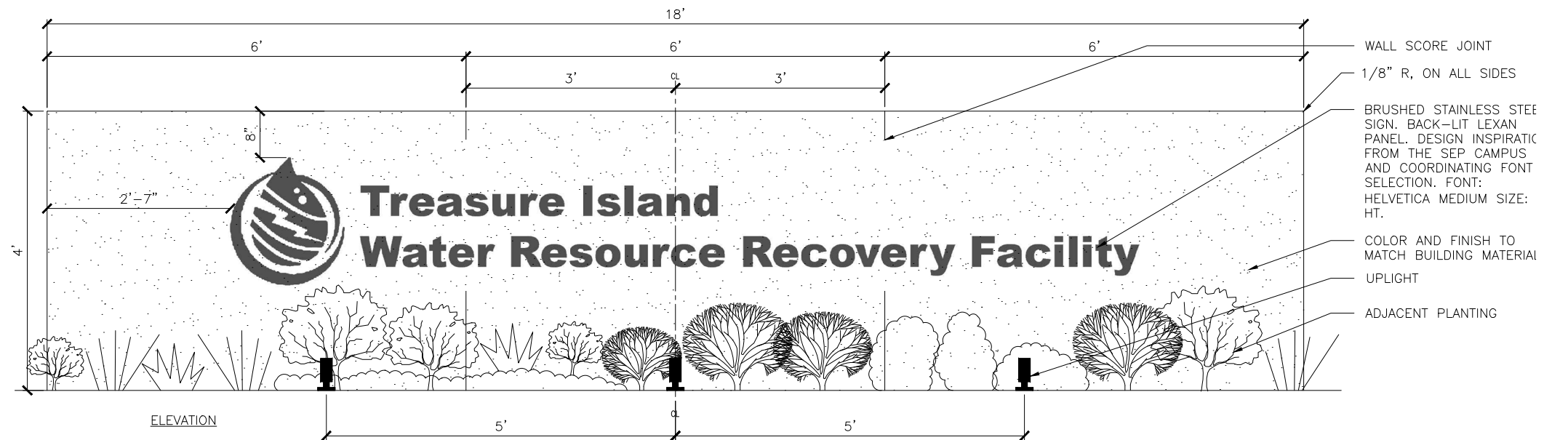
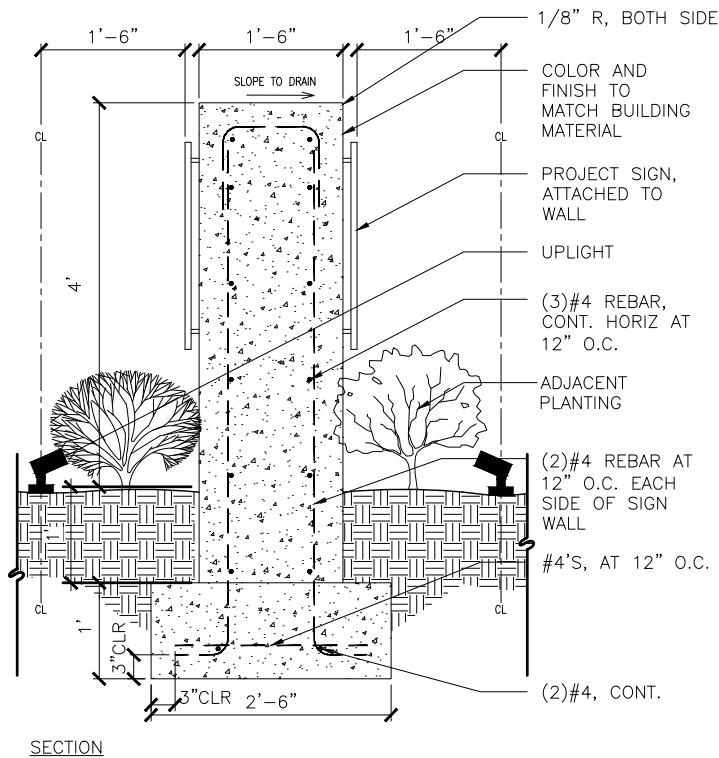


NON-DIRECTIONAL BRUSH FINISH



SOLID LETTER - BACK LIT LEXAN

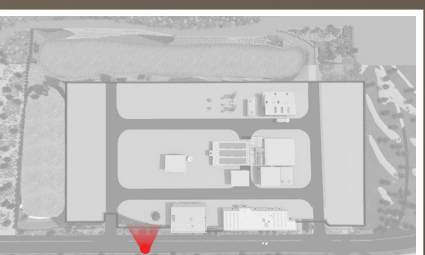
- SIMPLE EFFECTIVE DESIGN
- DAYTIME VISIBILITY BEST ON A CONTRASTING SURFACE
- SURFACE MOUNT INDIVIDUAL NUMBERS
- BACK LIT LEXAN



NITE STAR



1 TI WRRF PERIMETER ENCLOSURE - EASTSIDE AVE.







EXISTING SWITCH YARD



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

4 TOUR AROUND THE FACILITY - SOUTH ENTRY AND ADMINISTRATION BUILDING



5 TOUR AROUND THE FACILITY - ADMINISTRATION BUILDING - PUBLIC ART OPPORTUNITIES



POSSIBLE ART ENRICHMENT
OPPORTUNITY
LOCATION

6 TOUR AROUND THE FACILITY - MAINTENANCE BUILDING - PUBLIC ART OPPORTUNITIES



7 TOUR AROUND THE FACILITY - NORTH ENTRY















THANK YOU
QUESTIONS, ANSWERS AND
DISCUSSION



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission