

## **Civic Design Review - Phase 3**

## **BAY CORRIDOR TRANSMISSION & DISTRIBUTION (BCTD)**

# ELECTRICAL SUBSTATION 398 QUINT STREET (DAVIDSON AVENUE near QUINT STREET)

February 8, 2021





## **BCTD Electrical Substation Project**





# Project brief

#### **Site**

- Area approximately 13,000 sq ft,
- Industrial zoning PDR-2 (65'-J).
- Expected new address 1535
   Davidson Ave.

#### **Equipment**

- Outdoor electrical equipment only, no occupied spaces.
- 230kV transformers and gas insulated switchgear (GIS).

#### **Project requirements**

- Perimeter wall/ fire rated barrier.
- Vehicular and staff gates.
- Vehicular access ramp.
- 3 existing trees to be removed.
- Clear frontage along Davidson Ave.
   to allow for crane access into facility.

#### Sea level rise

Site raised approximately 3-ft, electrical equipment placed on concrete pads 6-in above raised site elevation.

#### **Stormwater management**

Accounting for allowed area exclusions, project will create and/or replace <5000 sq ft of impervious surface.

#### New concrete sidewalk

Allow for future equipment replacement with crane.



**Gas Insulated Switchgear** 

#### **Facility Access**

There will be no public access to the facility. Facility access is limited to PUC employees, generally visited once per week for routine maintenance.

## Project goals

- Meet electrical operational & security requirements.
- Consider proximity to nearby warehouses and light-industrial facilities.
- Create a relationship with other SFPUC projects (SEP Campus & Headworks).
- Create an elegant, understated facility that fits within the mostly single-story buildings along Davidson Avenue and the greater neighborhood.

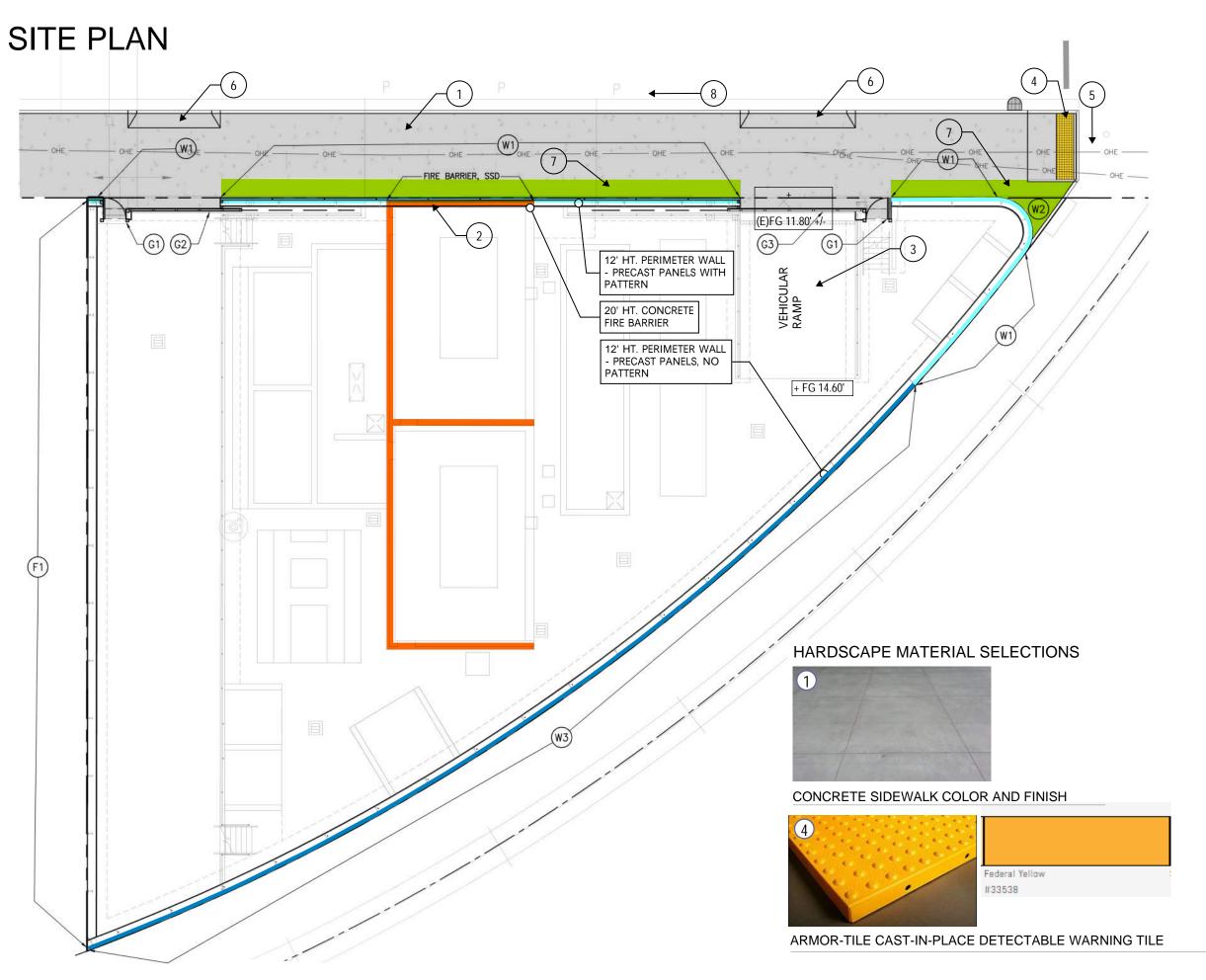


Facilities facing project site on Davidson Avenue











#### LEGEND:

- W1. PERIMETER WALL 12' HT x 10' WIDE ARCHITECTURAL PRECAST PANELS WITH CUSTOM PATTERN FROM GRAPHIC CONCRETE.
- W2. PERIMETER WALL 12' HT. x 7' WIDE ARCHITECTURAL PRECAST PANELS WITH CUSTOM PATTERN FROM GRAPHIC CONCRETE.
- W3. PERIMETER WALL 12' HT x 10' WIDE ARCHITECTURAL PRECAST PANELS WITH STANDARD FORM FINISH.
- F1. WEST FENCE 12' HT. PREFABRICATED ALUMINUM FENCE PANEL, POWDERCOAT COLOR TO MATCH "STEEL" FROM LANDSCAPE FORMS. PANELS SUPPLIED BY BOK MODERN
- G1. PEDESTRIAN/STAFF ENTRY GATE 8' HT ARCHTECTURAL ALUMINUM PANEL. COORDINATED PANEL SURROUNDS TO 12' HT. NON-DIRECTIONAL BRUSHED FINISH
- G2. WEST VEHICULAR GATE 12' HT x 16' WIDE (OPEN)
  ARCHITECTURAL ALUMINUM PANEL ATTACHED TO
  STEEL FRAME. NON-DIRECTIONAL BRUSHED FINISH
- G3. EAST VEHICULAR GATE 12' HT x 21' WIDE (OPEN)
  ARCHITECTURAL ALUMINUM PANEL ATTACHED TO
  STEEL FRAME. NON-DIRECTIONAL BRUSHED FINISH
- NEW CONCRETE SIDEWALK. FINISH TO CITY STANDARDS.
- 2. CONCRETE FIRE BARRIER. NATURAL GRAY, STANDARD FORM FINISH.
- REINFORCED CONCRETE VEHICULAR RAMP, CONCRETE TO MATCH SIDEWALK.
- CONCRETE ADA COMPLIANT TACTILE PAVERS PER CITY STANDARDS.
- PEDESTRIAN CROSSING. FUTURE UPGRADES BY OTHERS.
- REINFORCED CONCRETE DRIVEWAY PER SFDPW STANDARDS, CONCRETE TO MATCH SIDEWALK.
- 7. PLANTING AREA WITH AN AUTOMATIC IRRIGATION SYSTEM.
- 8. STREET PARKING.

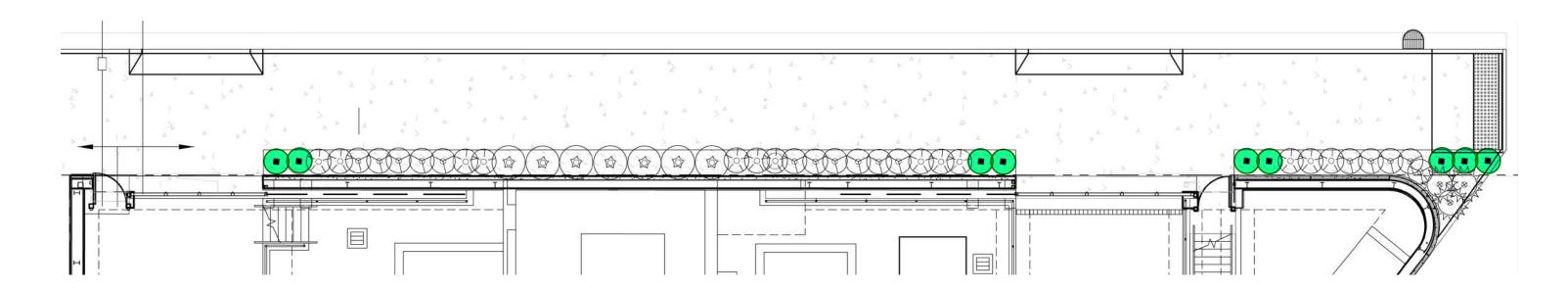
# CIVIC DESIGN REVIEW (CDR), PHASE 1 AND PHASE 2 REVIEW COMMENTS (8.17.2020)

### AGAVE ATTENUATA ALTERNATIVE

The Committee expressed concern given that it will be in a Northeast exposure.

### **RESPONSE:**

After discussion with some nursery plant specialists, we're confident the plant will tolerate the shade given from the wall. This agave typically does well around San Francisco, and in this case, benefits include providing well-drained soil and some reflected light from the perimeter wall.



# CIVIC DESIGN REVIEW (CDR), PHASE 1 AND 2 REVIEW COMMENTS (8.17.2020)

#### **BACKLIT LEXAN PANEL QUALITY**

The Committee suggested that the team ensure that the illumination/light box for the graphic be high quality.

### **RESPONSE:**

The backlit lexan panel address number proposed is from RESNO, industry leader in slim-line illuminated architectural letters.

# Introducing RESNO by BITRO.

**RESNO** = Cutting Edge Technology and Superb Craftsmanship Lettering System. Resno offers exquisit jewel like illuminated letters that maximize brands and enhance product advertising like no other.

Resno Series No. RS-AC-S2

Halo Lit & Partial Side Lit

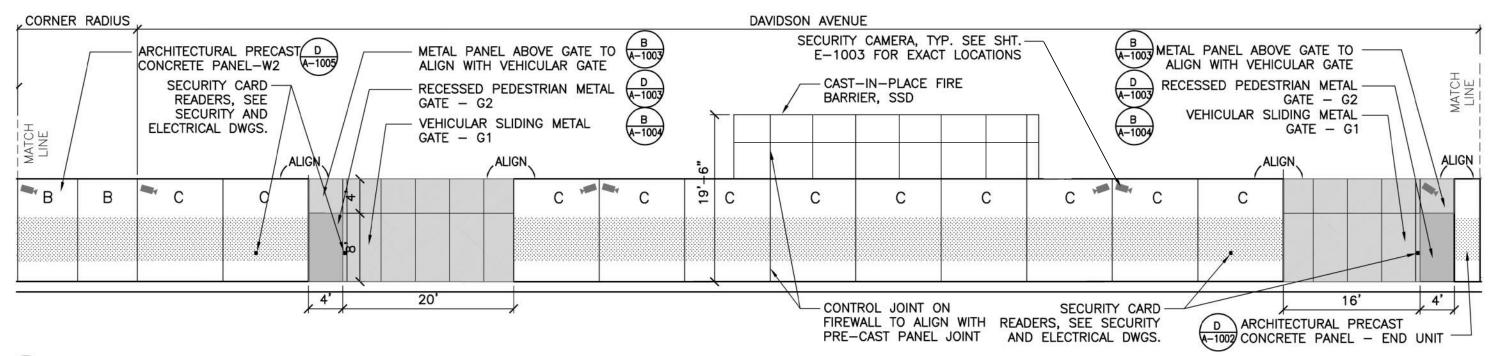




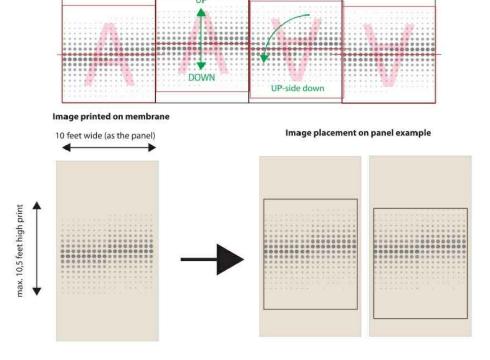




#### ARCHITECTURAL PRECAST CONCRETE WALL

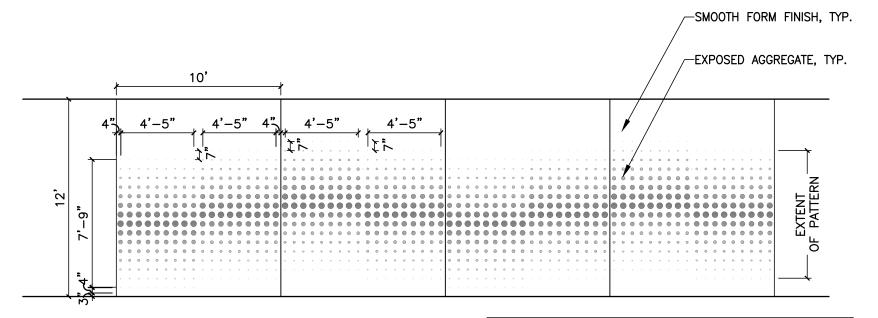


CONCRETE PANELS AND VEHICULAR AND PEDESTRIAN GATES— NORTH WALL ELEVATION



#### NOTES:

- 1. CONTINUOUS SOLID MEMBRANE PER PANEL, NO JOINTS.
- 2. PROVIDE MOCK UP FOR REVIEW PRIOR TO MEMBRANE FABRICATION.
- 3. CONTACT: LENA WECKSTROM, GRAPHIC CONCRETE,
- 4. 358 40 8697805; LENA.WECKSGTROM@GRAPHICCONCRETE.FI



PATTERN DEVELOPED BY GRAPHIC CONCRETE.
CONTACT: LENA WECKSTROM, +358 40 8697806
LENA.WECKSTROM@GRAPHICCONCRETE.FI

CONTRACTOR TO PROVIDE ONE FULL—SIZE CONCRETE PANEL MOCK—UP FOR REVIEW AFTER CONCRETE PANEL PATTERN MEMBRANE HAS BEEN APPROVED.



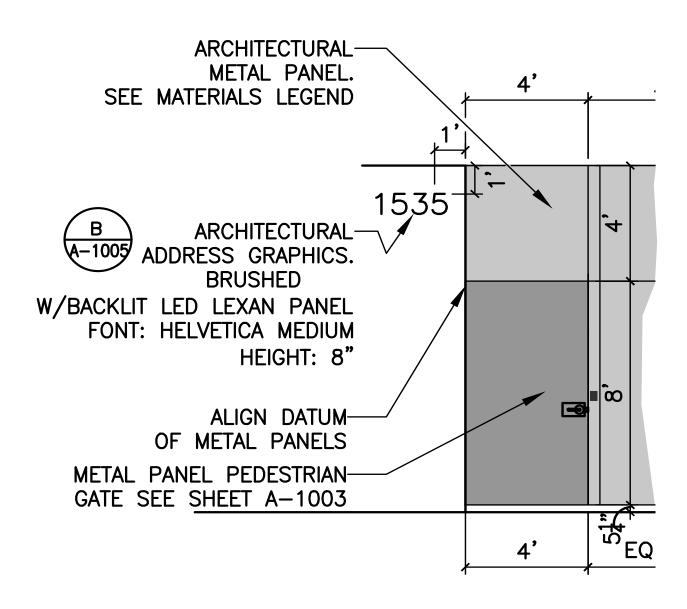


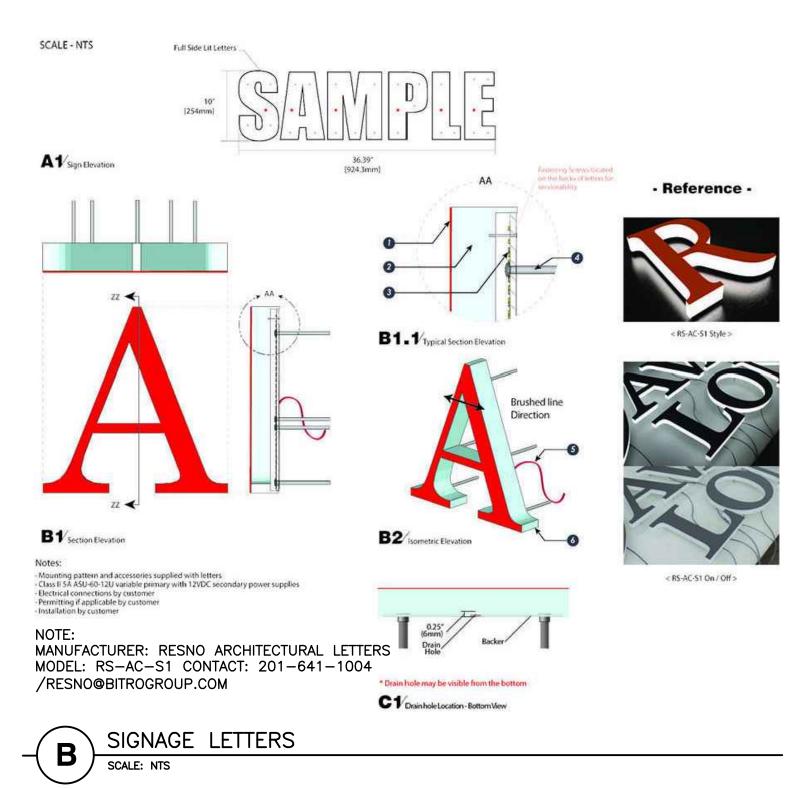
#### **EXTERIOR SIGNAGE AND GRAPHICS**



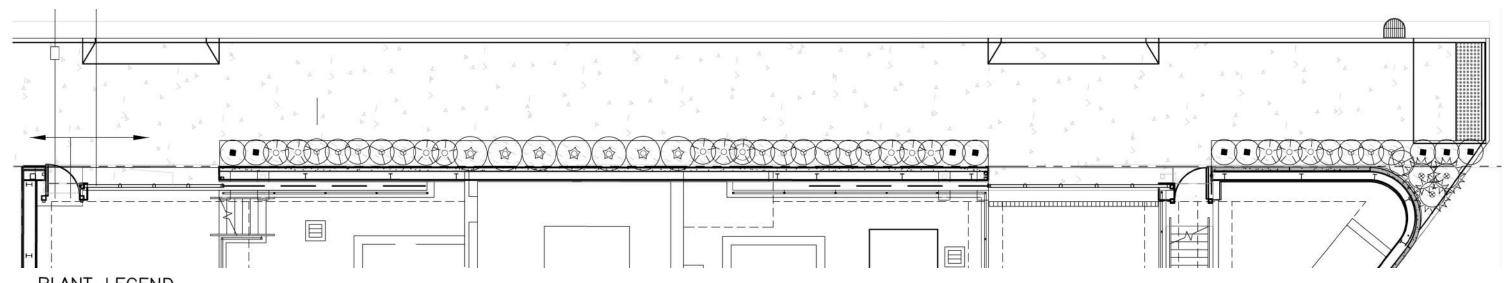
NON-DIRECTIONAL BRUSH FINISH

#### ARCHITECTURAL METAL LETTER FINISH.





#### PLANTING PLAN AND PLANT SELECTIONS



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I LANT LEGEND				PLANT	CONTAINER	WATER	
SYMBOL	LATIN NAME	COMMON NAME	QTY	SIZE (H X W)	SIZE	100000000000000000000000000000000000000	NOTES
	SHRUB AND PERENNIALS						
$\bigcirc$	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	16	3' X 3'	5 GAL	LOW	
$\Box$	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	7	4' X 6'	5 GAL	LOW	
0	JUNCUS PATENS 'ELK BLUE'	CALIFORNIA GRAY RUSH	13	3' X 3'	5 GAL	LOW	
	SALVIA LEUCOPHYLLA	PURPLE SAGE	5	3' X 3'	5' GAL	LOW	
•	AGAVE ATTENUATA	FOX TAIL AGAVE	9	4' X 5'	3 GAL	LOW	

#### TURF & MULCH



3" DEPTH MULCH

#### GENERAL PLANTING NOTES

- ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO REQUIREMENTS AND STANDARDS. ALL PLANT MATERIAL SHALL CONFORM TO ANSI Z601 "STANDARD FOR NURSERY STOCK". NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES
- 2. ALL PLANTING AREAS SHALL HAVE NEW IMPORT TOPSOIL TO A 24" DEPTH
- 3. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS.
- PLANT COUNT IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN. NOTIFY RESIDENT ENGINEER IMMEDIATELY FOR FURTHER DIRECTION WHEN DISCREPANCIES ARE NOTICED.
- 5. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR OBSERVATIONS OF LANDSCAPE AND IRRIGATION.
- 6. ALL PLANTING AREAS SHALL BE TOP-DRESSED WITH 3 INCH LAYER OF MULCH.TOP OF MULCH SHALL BE MAXIMUM 1" BELOW ADJACENT PAVING ELEVATION.
- 7. CONTRACTOR SHALL ARRANGE & PAY FOR SOIL TESTING OF PLANTING SOIL BY AN ACCREDITED SOILS LABORATORY APPROVED BY THE CITY. REQUEST THAT THE LABORATORY MAKE RECOMMENDATIONS FOR AMENDING PLANTING AREAS & FOR BACKFILL MIX USING BAY FRIENDLY APPROVED METHODS. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF SOILS LAB.

- 8. ORGANIC COMPOST AND MULCH SHALL CONTAIN NO VISIBLE GLASS, METAL OR PLASTIC. PAPER SHALL BE NO MORE THAN 0.5% BY WEIGHT OR VOLUME. MUNICIPAL COMPOST SHALL NOT BE USED. CONTRACTOR SHALL SUBMIT A CURRENT LAB ANALYSIS PERFORMED BY A STA CERTIFIED LABORATORY FOLLOWING THE SEAL OF TESTING ASSURANCE PROGRAM & CONFIRMING THAT COMPOST IS STABLE, MATURE & FREE OF NOXIOUS ELEMENTS & HAVE NO OBJECTIONABLE ODORS INDICATING ANAEROBIC CONDITIONS.
- 9. ALL ROCK AND DEBRIS 1-1/2" AND LARGER SHALL BE REMOVED FROM PLANTING SOIL AND PLANTING AREAS.
- 10. PLANTING SHALL BE PERFORMED BY A LICENSED CONTRACTOR AND IN ACCORDANCE WITH SPECIFICATIONS.
- 11. ALL PLANTING SHALL BE INSTALLED SEASONALLY TO COINCIDE WITH THE REGION'S RAINY SEASON.
- 12. NOTIFY PROJECT MANAGER 48 HOURS PRIOR TO PLANT DELIVERY. ALL PLANTS TO BE REVIEWED AND ACCEPTED PRIOR TO PLANTING.
- 13. FOR PLANT VIABILITY, NEW PLANTS ARE TO BE HAND-WATERED AS NEEDED BY THE CONTRACTOR TO MAINTAIN TREE GROWTH AND HEALTH.
- 14. SEE CIVIL DRAWINGS, ELECTRICAL DRAWINGS, AND LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATION OF UTILITIES.

