

CALIFORNIA COASTAL COMMISSION

SOUTH COAST DISTRICT OFFICE
301 E. OCEAN BLVD., SUITE 300
LONG BEACH, CA 90802-4830
(562) 590-5071



Th15a

5-23-0115 (OC San)

July 11, 2024

EXHIBITS

Exhibit 1 – Vicinity Map and Project Site

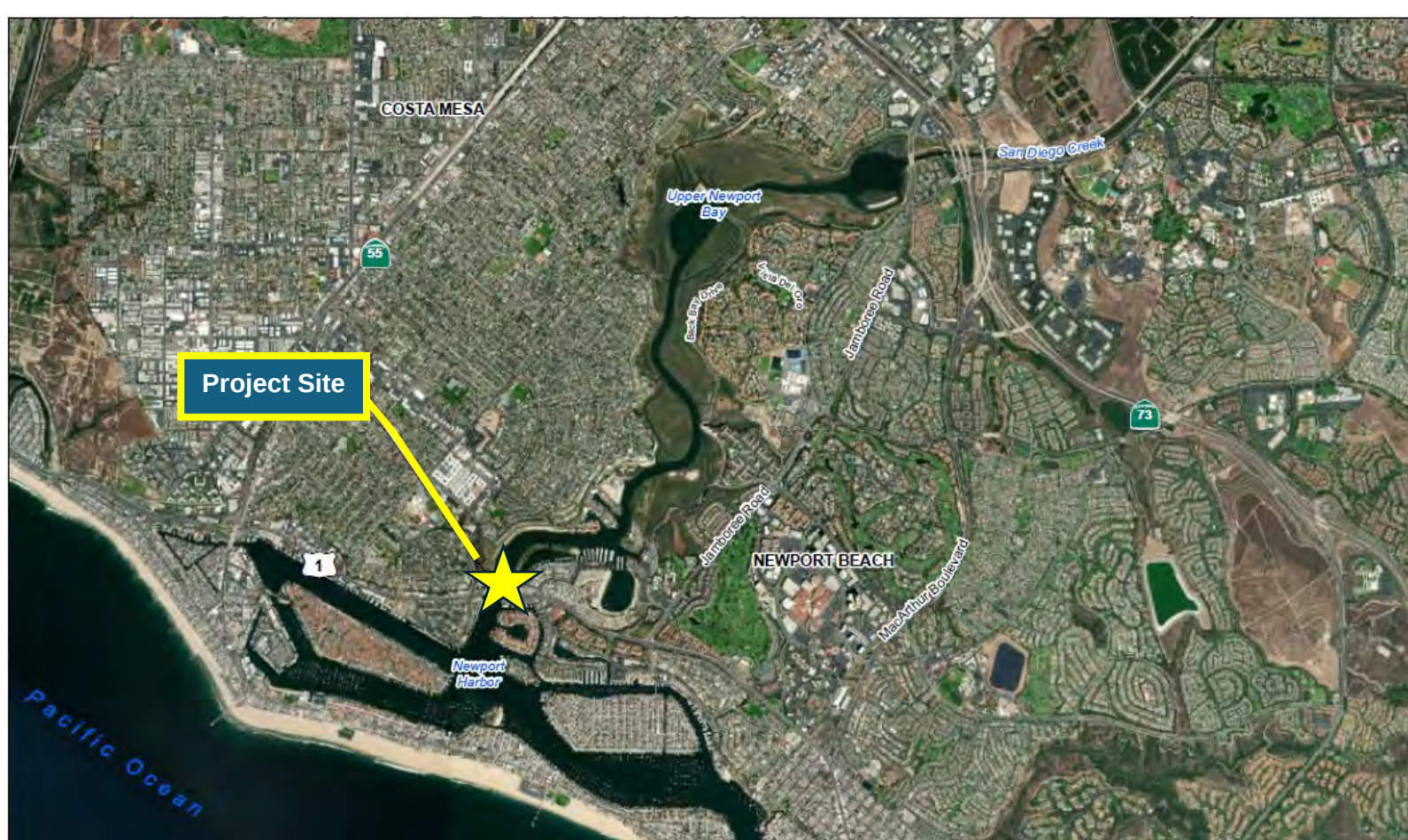
Exhibit 2 – Project Plans

Exhibit 3 – Other Agency Approvals

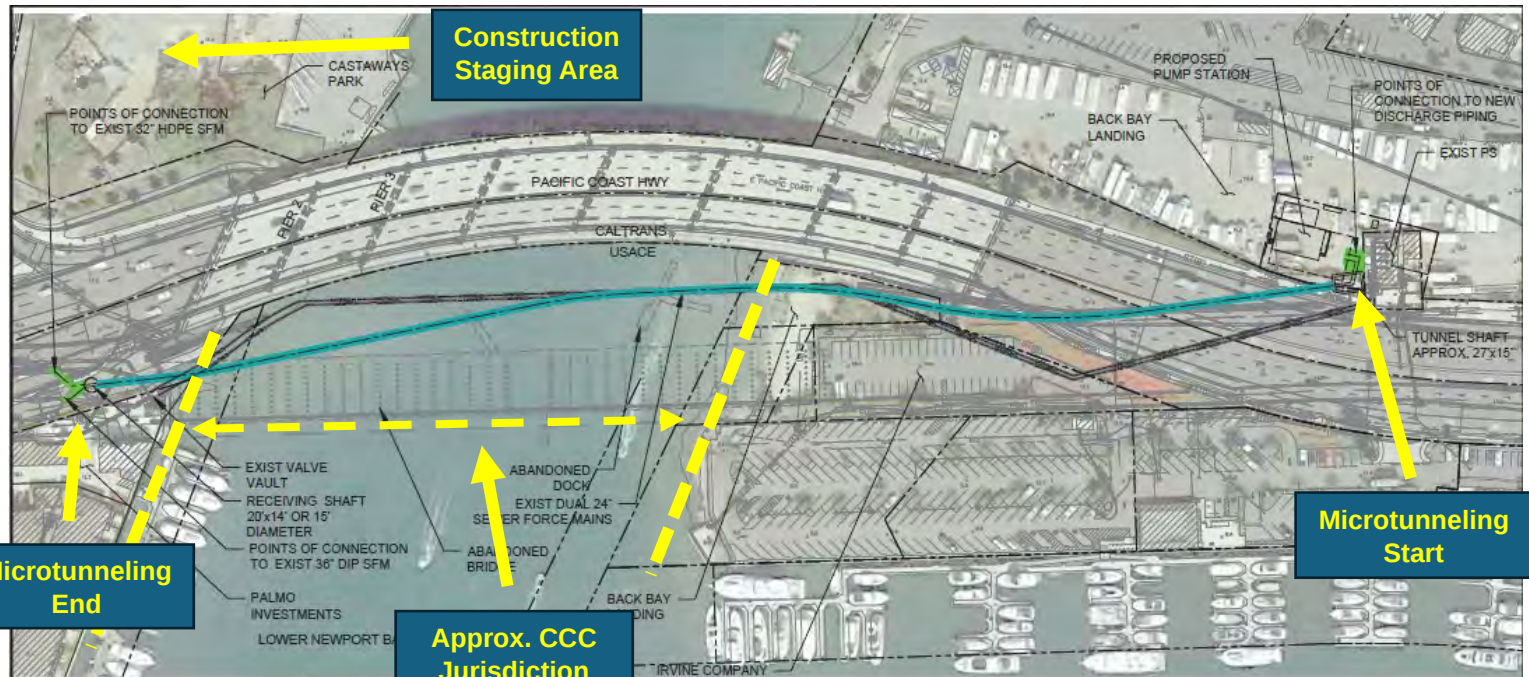
Exhibit 4 – Traffic Control Plan

Exhibit 5 – Pedestrian Routing Plan

Exhibit 6 – Erosion and Sediment Control Plan



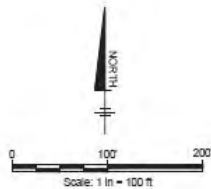
Construction Staging Area



Microtunneling
End

Microtunneling
Start

Approx. CCC
Jurisdiction



LEGEND

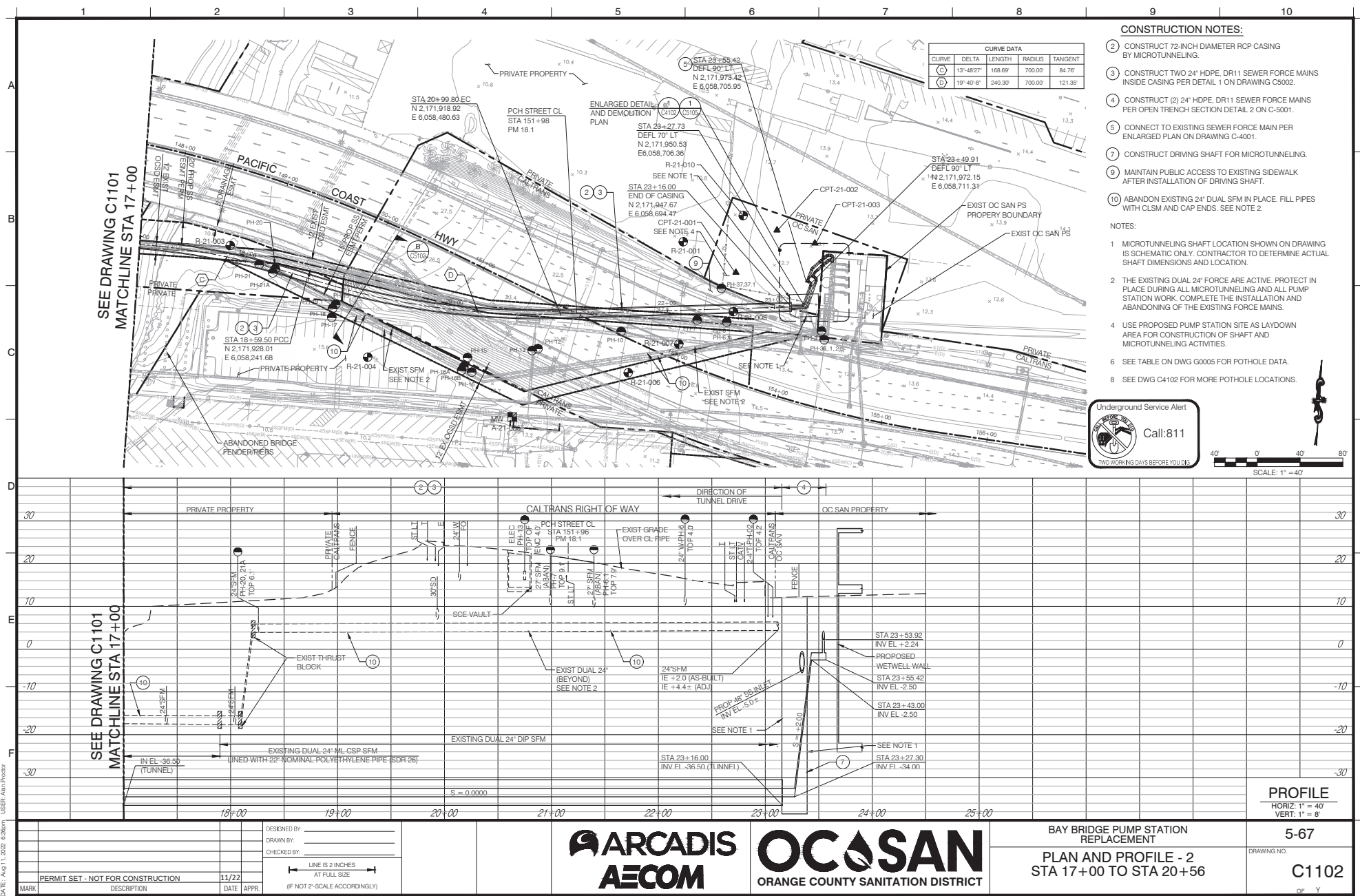
- STREET CENTERLINE
- RIGHT-OF-WAY BOUNDARIES
- 24" (6" DIA) EXISTING OCSD FORCE MAIN
- OPEN TRENCH (LAND SIDE)
- MICROTUNNELING

ORANGE COUNTY SANITATION DISTRICT
BAY BRIDGE PUMP STATION REPLACEMENT
PROJECT NO. 5-67

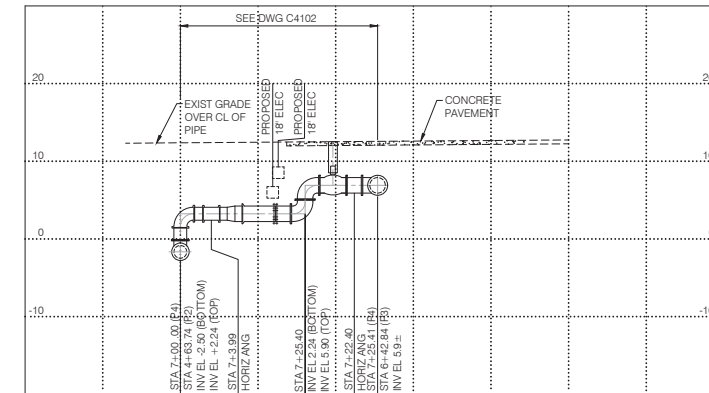
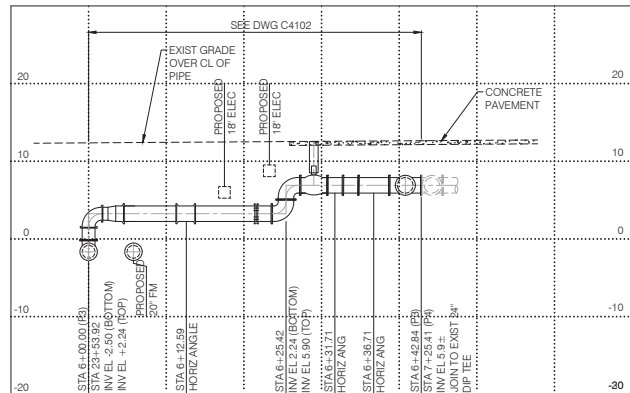
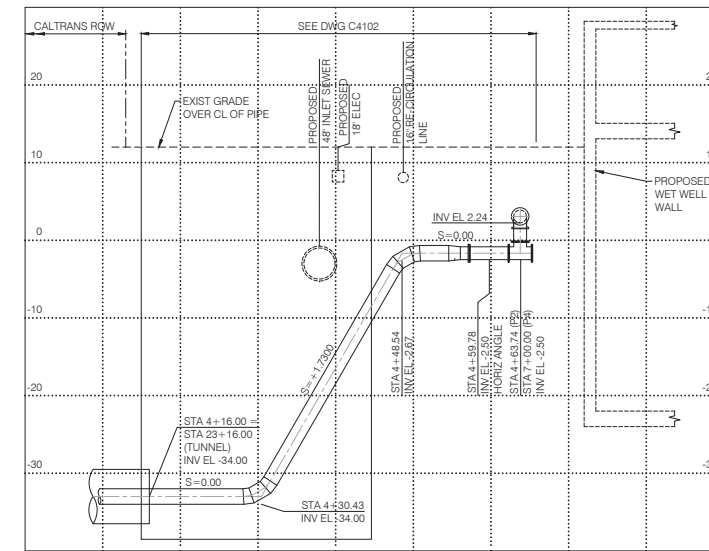
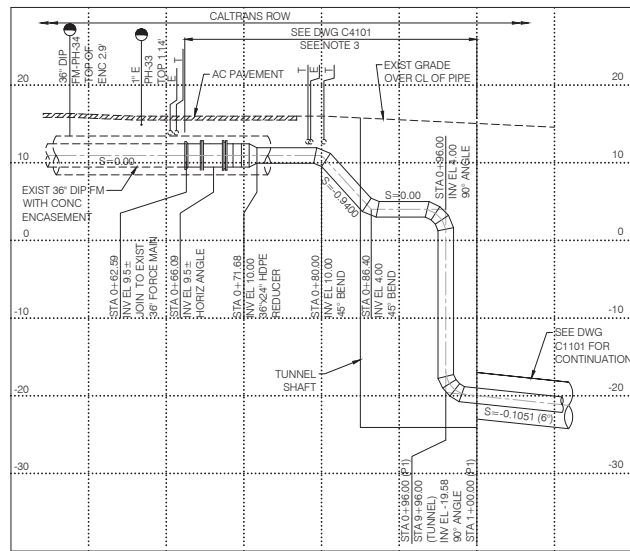
MICROTUNNELING PLAN
(SINGLE DRIVE)

ARCADIS **AECOM**

FIGURE
4



DWG: C:\Users\alan.pector\OneDrive\ArCADIS\0001887-OCSD-467 Bay Bridge Pump Station\220-AUC\AS\DWG\SHETS\C3101.dwg
DATE: Aug 11, 2022, 8:30pm USER: Alan Pector



MARK	DESCRIPTION	DATE	APPR.
	PERMIT SET - NOT FOR CONSTRUCTION	11/22	

DESIGNED BY: JESUS LOPEZ - 8/22
DRAWN BY: ALAN PROCTOR - 8/22
CHECKED BY: PAVEEN YERRA - 8/22

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

SIGNED:

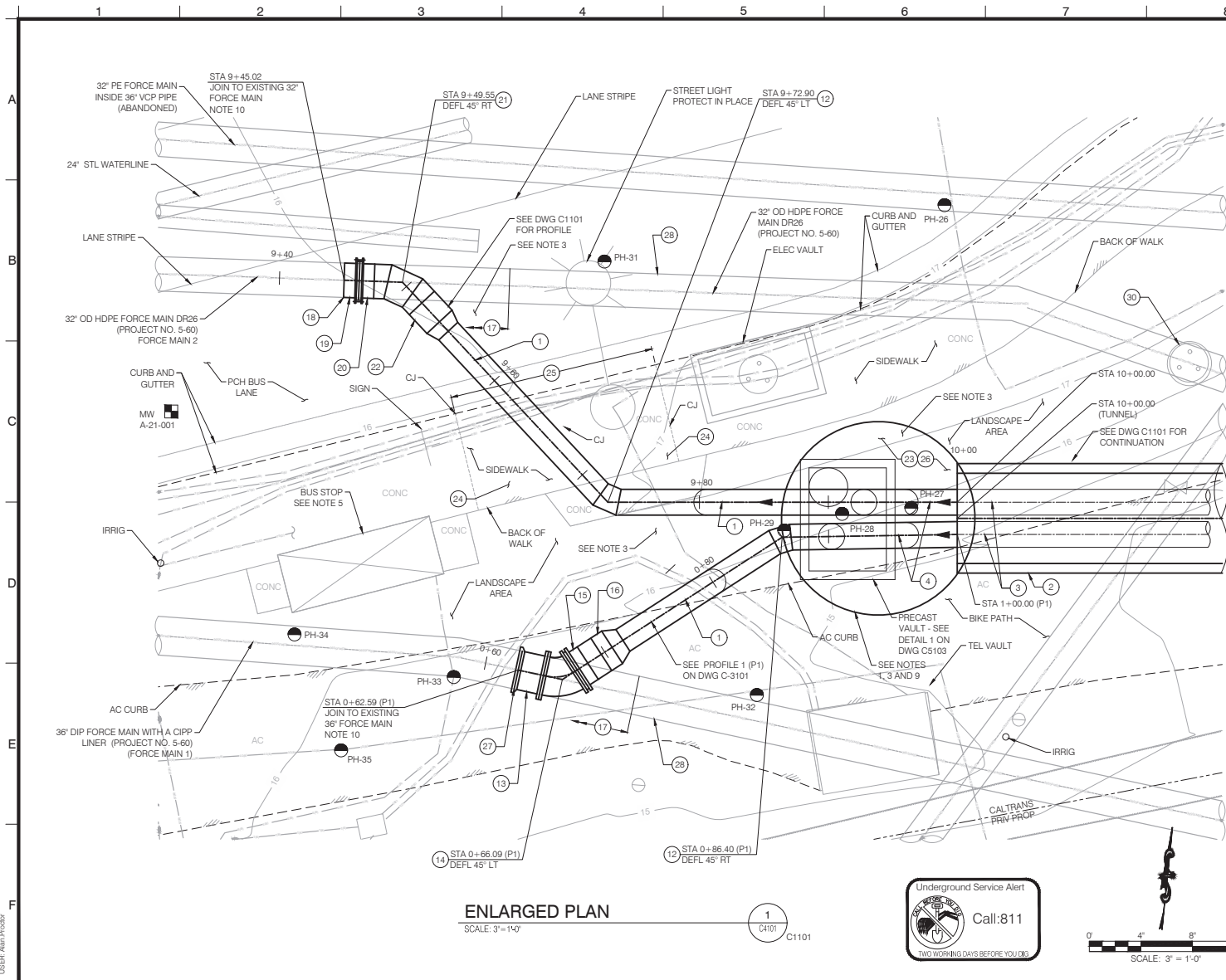
ARCADIS
AECOM

OC SAN
ORANGE COUNTY SANITATION DISTRICT

BAY BRIDGE PUMP STATION REPLACEMENT
FORCE MAIN PROFILES 3 AND 4

5-67
DRAWING NO.
C3101
X OF XX

DWG: C:\Users\alan\OneDrive\Arcadis\05010187-OCSD-447 Bay Bridge Pump Station\020AUCAS\DWG\SH-ETS\C4101.dwg
DATE: Aug 12, 2022, 10:23am USER: Alan Proctor



CONSTRUCTION NOTES:

1. CONSTRUCT 24" HDPE, DR11 SEWER FORCE MAIN PER OPEN TRENCH SECTION DETAIL 1 ON C-5001.
 2. CONSTRUCT 72-INCH MINIMUM DIAMETER RCP CASING BY MICROTUNNELING.
 3. CONSTRUCT TWO 24" HDPE, DR11 SEWER FORCE MAINS INSIDE CASING PER DETAIL 1 ON DRAWING C5002.
 4. CONSTRUCT (2) 24" HDPE, DR11 SEWER FORCE MAINS PER OPEN TRENCH SECTION DETAIL 2 ON C-5001.
 12. CONSTRUCT 24" HDPE ELBOW, DR11.
 13. CONSTRUCT 36" DIP SPOOL, M&FE, WITH RESTRAINTS, CLASS 150, EPOXY CERAMIC LINER (MINIMUM LENGTH 2'-0").
 14. CONSTRUCT 36" DIP ELBOW, F&FE, CLASS 150 WITH EPOXY CERAMIC LINER.
 15. CONSTRUCT 36" HDPE FLANGED COUPLING ADAPTER, DR11, JOINT TO DIP FLANGED PER DETAIL 4 ON DWG C5101.
 16. CONSTRUCT 36"x24" HDPE REDUCER, DR11, FUSE JOINT PER DETAIL 3 ON DWG C5101.
 17. REMOVE AND DISPOSE OF INTERFERING PORTIONS OF FORCE MAIN, PLUG END.
 18. CUT FLUSH EXIST 32" HDPE PIPE FOR CONNECTION.
 19. CONSTRUCT 32" HDPE FLANGED COUPLING ADAPTER, DR26, FUSE ADAPTER TO EXIST 32" HDPE PIPE PER DETAIL 3 ON DWG C5101.
 20. CONSTRUCT 32" HDPE FLANGED COUPLING ADAPTER, DR11, JOINT PER DETAIL 4 ON DWG C5101.
 21. CONSTRUCT 32" HDPE ELBOW, DR11.
 22. CONSTRUCT 32"x24" HDPE REDUCER, DR11, FUSE JOINT PER DETAIL 3 ON DWG C5101.
 23. REMOVE AND DISPOSE OF INTERFERING LANDSCAPING, REPLACE IN KIND AT COMPLETION OF FORCE MAIN WORK.
 24. REMOVE AND DISPOSE PORTIONS OF SIDEWALK, RECONSTRUCT PER CALTRANS STD A87A, REPLACE TO NEAREST CONSTRUCTION JOINT.
 25. REMOVE AND DISPOSE INTERFERING PORTION OF CURB AND GUTTER, RECONSTRUCT PER CALTRANS STD A87A TYPE (A2-8).
 26. REMOVE AND DISPOSE OF INTERFERING PORTIONS OF EXISTING IRRIGATION FACILITIES, REPLACE IN KIND AT AT COMPLETION OF FORCE MAIN WORK.
 27. CUT FLUSH EXIST 36" DIP PIPE FOR CONNECTION. SEE DETAIL 6 ON DWG C5101.
 28. ABANDON EXISTING FORCE MAIN IN PLACE. FILL PIPES WITH CLSM AND CAP ENDS.
 30. ABANDON MAN-HOLE PER DETAIL 3 ON DWG C-5103.
- NOTES:
1. MICROTUNNELING SHAFT LOCATION SHOWN ON DRAWING IS SCHEMATIC ONLY. DETERMINE ACTUAL SHAFT DIMENSIONS AND LOCATION.
 3. EXISTING CONCRETE ROAD SLAB, UNKNOWN THICKNESS AND LOCATION. REMOVE AND DISPOSE OF INTERFERING PORTIONS. MAY CONTAIN STEEL REINFORCEMENT.
 5. TEMPORARILY CLOSE THE BUSS STOP FOR CONSTRUCTION OF SHAFT AND FORCE MAIN CONNECTIONS. COORDINATE WITH OCTA FOR TEMPORARY RELOCATION.
 6. SEE TABLE ON DWG G0005 FOR POTHOLE DATA.
 9. POTHOLES PH-27, PH-28, AND PH-29 ALL ENCOUNTER THE CONCRETE SLAB WHERE THE PROPOSED TUNNEL SHAFT IS TO BE INSTALLED. POTHOLE AREA AS REQUIRED TO DETERMINE THICKNESS, AREA OF CONCRETE LIMITS, AND STEEL REINFORCEMENT EIGHT WEEKS AFTER NOTICE TO PROCEED. REPORT ALL DATA AND PROVIDE TO OWNER TWO WEEKS AFTER COMPLETION OF WORK.
 10. POTHOLE EXISTING UTILITY EIGHT WEEKS AFTER NOTICE TO PROCEED. REPORT LOCATION, DEPTH, DIAMETER, AND MATERIAL TO OWNER.

ENLARGED PLAN

SCALE: 3"=1'-0"

1
C4101



0' 4' 8' 1'
SCALE: 3" = 1'-0"

MARK	DESCRIPTION	DATE	APPR.
	PERMIT SET - NOT FOR CONSTRUCTION	11/22	

DESIGNED BY: JESUS LOPEZ - 8/22
DRAWN BY: ALAN PROCTOR - 8/22
CHECKED BY: PRAVEEN YERRA - 8/22
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

SIGNED:

ARCADIS
AECOM

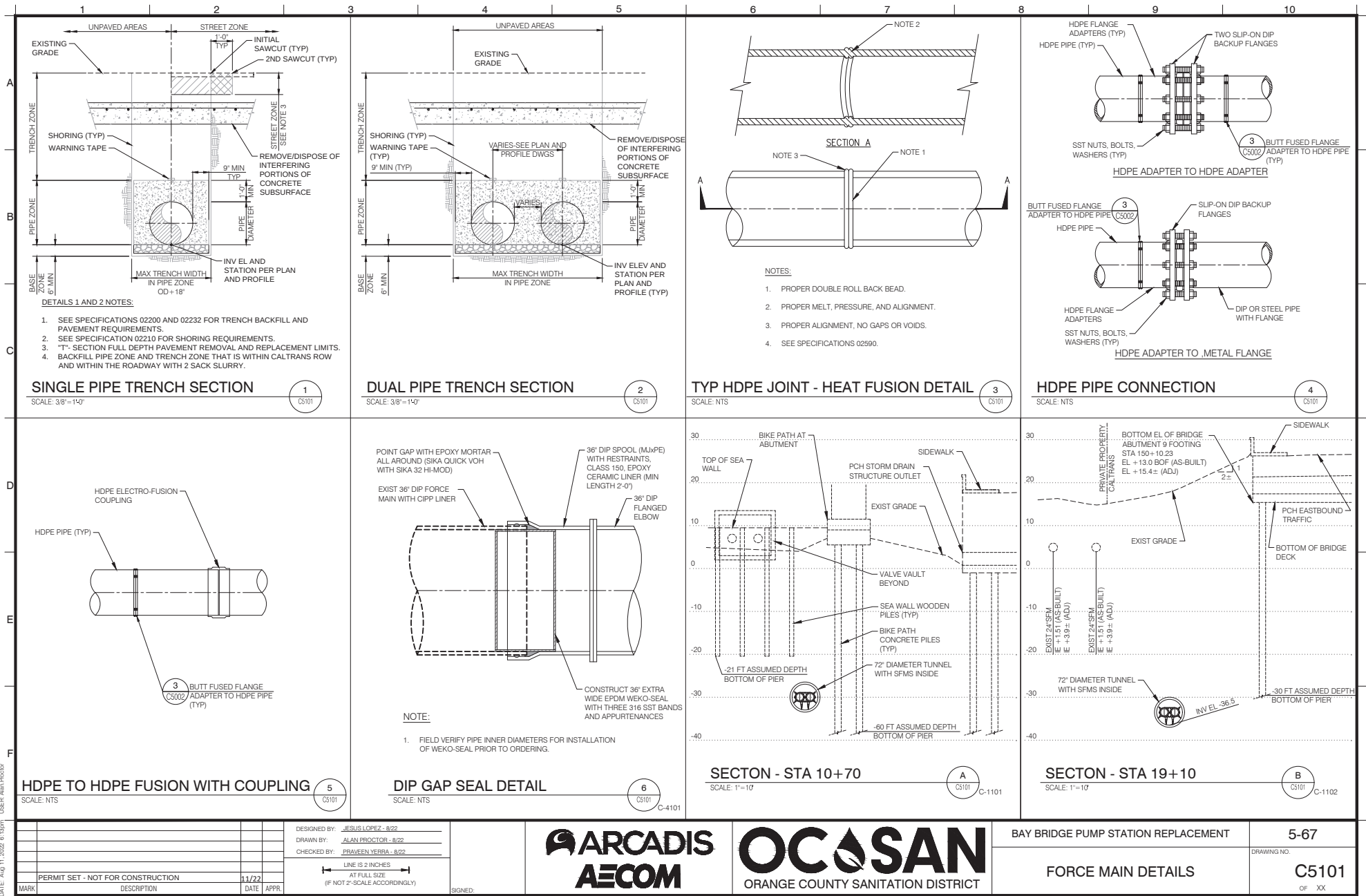
OC SAN
ORANGE COUNTY SANITATION DISTRICT

BAY BRIDGE PUMP STATION REPLACEMENT
PCH ENLARGED PLAN
WEST OF CHANNEL CONNECTIONS

5-67

DRAWING NO.
C4101
OF XX

DWG: C:\Users\alproctor\OneDrive\Arcadis\05001847 Bay Bridge Pump Station\0250 CAUCAS\04 SHEETS\CAL 5-67 C5101.dwg
DATE: Aug 11, 2022, 6:13am USER: Alan Proctor



ARCADIS
AECOM

OC SAN
ORANGE COUNTY SANITATION DISTRICT

BAY BRIDGE PUMP STATION REPLACEMENT

5-67

FORCE MAIN DETAILS

DRAWING NO.

C5101

OF XX

Exhibit 3a - OC Parks Letter of Authorization



DYLAN WRIGHT
DIRECTOR
OC COMMUNITY RESOURCES

CYMANTHA ATKINSON
ASSISTANT DIRECTOR
OC COMMUNITY RESOURCES

JOANNE VEEDOR
DIRECTOR
ADMINISTRATIVE SERVICES

ANDI BERNARD
DIRECTOR
OC ANIMAL CARE

JULIA BIDWELL
DIRECTOR
OC HOUSING & COMMUNITY
DEVELOPMENT

RENEE RAMIREZ
DIRECTOR
OC COMMUNITY SERVICES

PAM PASSOW
INTERIM DIRECTOR
OC PARKS

JULIE QUILLMAN
COUNTY LIBRARIAN
OC PUBLIC LIBRARIES

Community Resources

January 23, 2024

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

Letter of Authorization: Orange County Sanitation - Coastal Development
Permit Application No. 5-23-0115

Orange County Sanitation ("OCSAN") requested authorization from the County of Orange ("County"), through OC Parks ("Parks"), to perform a project ("Project") that requires a Coastal Development Permit ("CDP") with the California Coastal Commission ("CCC"). The Project involves the replacement of high-pressure force mains to be installed by OCSAN underneath a bridge within tidelands granted to the County within Newport Bay, more specifically, as per plot map shown on Exhibit A, attached hereto. The County tidelands within Newport Bay are managed by Parks.

This letter shall serve as the County's authorization for the Project, subject to the following conditions: (1) The County has no objection to the referenced OCSAN force main replacement project as it relates to County granted tidelands area. (2) This letter of authorization does not provide the County's consent to any conditions that may be placed upon the Project, including but not limited to those conditions required by the CCC, the CDP or those requirements imposed by any other regulatory agency, state, city, or federal entity with jurisdiction and any conditions placed upon the Project shall be the responsibility of OCSAN to complete. (3) OCSAN shall indemnify and hold the County, its elected and appointed officials, and employees harmless and shall defend the County for any and all claims related to the CDP and the Project and OCSAN's obligations and conditions related thereto. (4) All costs of the CDP and the Project shall be borne by OCSAN and the County shall not be responsible for any costs associated with the Project, including but not limited to any construction, repair, maintenance, removal, or relocation of the Project or any improvements related thereto.

Parks does not consent to be a co-applicant on the CDP application for the project and it is the responsibility of OCSAN to obtain any and all permits from government agencies with jurisdiction in the area of construction. Such application for CDP may require plans, drawings, and other documentation that CCC deems necessary to process said permit. Any cost associated with the CDP shall be that of OCSAN.


Pam Passow
Director, OC Parks

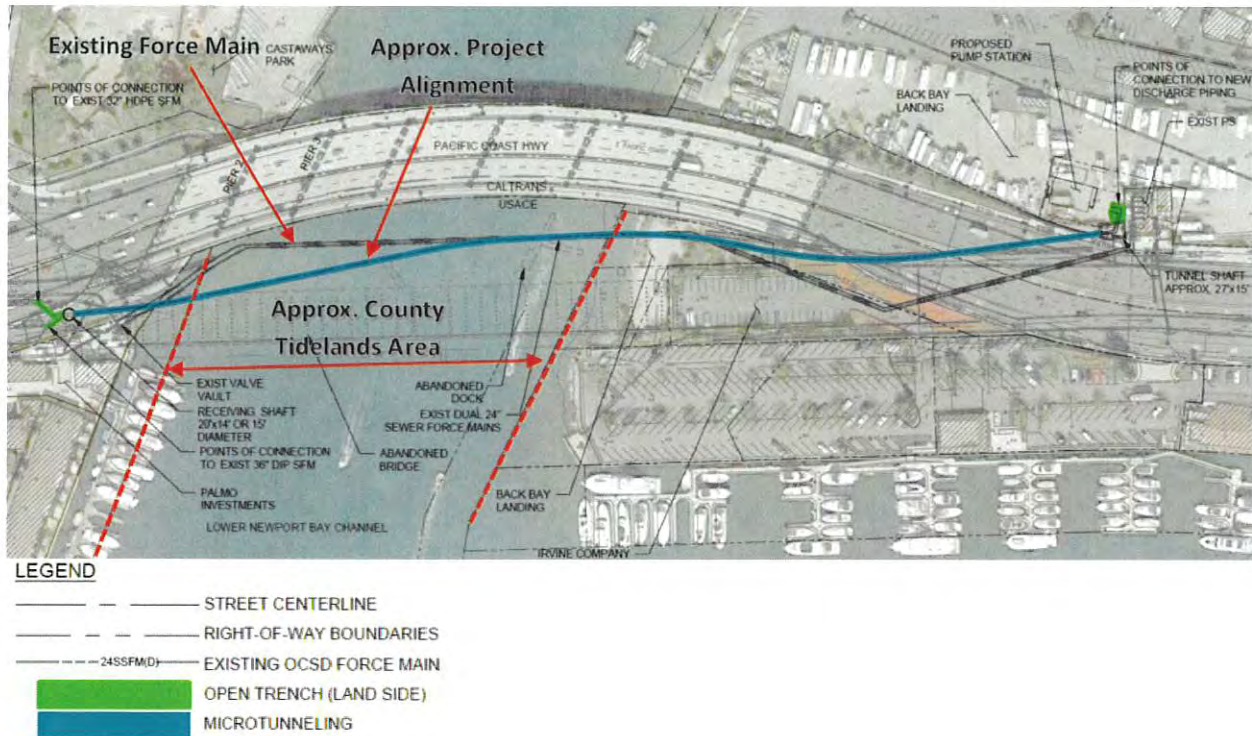
1/23/2024
Date


13042 OLD MYFORD ROAD
IRVINE, CA 92602
PHONE: 866.OC PARKS

Enclosures: Exhibit A: Plot Plan Map

California Coastal Commission
5-23-0115
Exhibit 3
Page 1 of 9

Exhibit A: Plot Plan Map





Santa Ana Regional Water Quality Control Board

September 14, 2023

Cindy Murra
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, CA 92708

Via email: CMurra@ocsan.gov

**BAY BRIDGE PUMP STATION REPLACEMENT (OC SAN PROJECT NO. 5-67),
CITY OF NEWPORT BEACH, ORANGE COUNTY (WDID NO. 302022-24)**

Dear Cindy Murra:

On December 13, 2022, Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) staff received from AECOM, on behalf of the Orange County Sanitation District (Applicant), an Application for Discharges of Dredged or Fill Material to Waters of the State (Application) for the Bay Bridge Pump Station Replacement (OC San Project No. 5-67) (Project) in the City of Newport Beach. The Applicant proposes to replace the existing Bay Bridge Pump Station along with the existing force mains crossing Newport Bay. The Project construction will involve filling existing force mains with slurry and abandoning them in place. The replacement force mains will be installed through underground microtunneling with a minimum of twenty (20) feet of soil cover.

The Project activities will have no impacts on Newport Bay as the Bay Bridge Pump Station and the entry and exit point of the microtunneling occur outside of waters of the state. The Applicant shall provide a Final Coordination and Implementation Plan, Fluid Control Plan, and Spill Response Plan prior to the commencement of Project activities.

Santa Ana Water Board staff reviewed the Project Application and supplemental material, including avoidance and minimization measures, and has determined the Project proposed in the Application, does not require a Clean Water Act section 401 Water Quality Certification for discharges of fill material to waters of the state. However, the Applicant shall submit the appropriate notifications to the Santa Ana Water Board of any emergency that requires work within or discharge to waters of the state. Please be advised that other Santa Ana Water Board and State Water Resources Control Board orders could apply to your Project.

KRISTINE MURRAY, CHAIR | JAYNE JOY, EXECUTIVE OFFICER

3737 Main Street, Suite 500, Riverside, CA 92501-3348 | www.waterboards.ca.gov/santaana

California Coastal Commission

5-23-0115

Exhibit 3

Page 3 of 9

Should there be any changes to the Project activities or proposed impacts, you will need to notify the Santa Ana Water Board of those changes by submitting an email to RB8-401Reporting@waterboards.ca.gov and include the Project's name and WDID No.

Please contact Kyle Fructuoso at Kyle.Fructuoso@waterboards.ca.gov or Claudia Tenorio with any questions at Claudia.Tenorio@waterboards.ca.gov.

Sincerely,

Jayne Joy  Digitally signed by Jayne Joy
Date: 2023.09.14 13:57:52 -07'00'
Jayne Joy, P.E.
Executive Officer
Santa Ana Regional Water Quality Control Board

cc:

Corice Farrar – United States Army Corps of Engineers, Los Angeles District –
Corice.J.Farrar@usace.army.mil

Eric Sweeney – United States Army Corps of Engineers, Los Angeles District –
Eric.R.Sweeney@usace.army.mil

U.S. Environmental Protection Agency, Region 9 – R9cwa401@epa.gov

California Department of Fish and Wildlife, Region 5 – R5LSA@wildlife.ca.gov

Liliana Roman – California Coastal Commission – Liliana.Roman@coastal.ca.gov

Erik Larsen – AECOM – Erik.Larsen@aecom.com

Exhibit 3c - USACE Provisional Nationwide Permit (NWP) Verification



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT
5900 LA PLACE CT., SUITE 100
CARLSBAD, CALIFORNIA 92008

August 2, 2023

SUBJECT: Provisional Nationwide Permit (NWP) Verification

Andrew Brown, PE
Project Manager
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92708

Dear Mr. Brown:

I am responding to your request (Corps File No. SPL-2022-00744) for a Department of the Army permit for the proposed Bay Bridge Pump Station Replacement Project. The proposed project is located below Newport Bay within the city of Newport Beach, Orange County, California at approximately 33.616577, -117.902139 (Figure 1). Project activities would be located near the Bay Bridge that separates Upper and Lower Newport Bay.

Because construction of this project would result in placement of structures or consist of work in or affecting a navigable water of the U.S., a Department of the Army permit is required pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403).

I have determined that construction of your proposed project, if constructed as described in your application, would comply with NWP No. 58 (Utility Line Activities for Water and Other Substances). Specifically, and as shown in Figures 2 and 3, you are authorized to route and install two 24-inch-diameter sewer pipelines below navigable waters of the U.S., specifically Newport Bay, for the purpose of replacing the existing sewer lines. The new pipeline will be installed using microtunneling to drill a 72-inch concrete-encased pipe, which will protect the two new 24-inch pipelines. Microtunneling will occur below an approximately 812-foot (0.11-acre) stretch of Newport Bay at a minimum depth of 20 feet. The old sewer lines will be abandoned in place.

For this NWP verification letter to be valid, you must comply with all of the terms and conditions stated in the enclosed copy of the NWP. Furthermore, you must comply with the following non-discretionary Special Conditions:

Special Conditions:

1. This permit is contingent upon the issuance of a CZMA consistency certification by the California Coastal Commission (CCC). The Permittee shall abide by the terms and conditions of the CZMA consistency certification. The Permittee shall

submit the CZMA consistency certification to the Corps Regulatory Division (preferably via email) within two weeks of receipt from the issuing state agency. If the CCC fails to act on a request for concurrence with your certification within six months after receipt, please notify the Corps so we may consider whether to presume a concurrence pursuant to 33 CFR 325.2(b)(2)(ii).

2. Within 45 calendar days of completion of authorized work in waters of the U.S., the Permittee shall submit to the Corps Regulatory Division a post-project implementation memorandum including the following information:
 - A) Date(s) work within waters of the U.S. was initiated and completed;
 - B) Summary of compliance status with each special condition of this permit (including any noncompliance that previously occurred or is currently occurring and corrective actions taken or proposed to achieve compliance);
 - C) Color photographs (including map of photopoints) taken at the project site before and after construction for those aspects directly associated with permanent impacts to waters of the U.S. such that the extent of authorized fills can be verified;
 - D) One copy of "as built" drawings for the entire project. Electronic submittal (Adobe PDF format) is preferred. All sheets must be signed, dated, and to-scale. If submitting paper copies, sheets must be no larger than 11 x 17 inches; and
 - E) Signed Certification of Compliance (attached as part of this permit package).
3. Pursuant to 36 C.F.R. section 800.13, in the event of any discoveries during construction within waters within the Corps Permit Area of either human remains, archaeological deposits, or any other type of historic property, the Permittee shall notify the Corps Regulatory Project Manager (Eric Sweeney, 760-602-4837) and the Corps' Regulatory Archaeology Staff (Daniel Grijalva, 213-215-3228) within 24 hours. The Permittee shall immediately suspend all work in any area(s) where potential cultural resources are discovered. The Permittee shall not resume construction in the area surrounding the potential cultural resources until the Corps Regulatory Division re-authorizes project construction, per 36 C.F.R. Section 800.
4. INTERFERENCE WITH NAVIGATION: The permitted activity shall not interfere with the right of the public to free navigation on all navigable waters of the United States as defined by 33 C.F.R. Part 329.
5. DISCHARGES: No discharges of dredge or fill material is authorized by this permit.
6. LIMITATIONS: No other modifications or work shall occur to the structure permitted herein.
7. OBSTRUCTIONS: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration,

of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers Regulatory Division, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

8. U.S. COAST GUARD NOTIFICATION: To ensure navigational safety, the Permittee shall provide appropriate notifications to the U.S. Coast Guard as described below:

Local Notice to Mariners, 11th Coast Guard District

TEL: (510) 437-2980

Email: d11LNM@uscg.mil

Website: <https://www.pacificarea.uscg.mil/Our-Organization/District-11/Prevention-Division/LnmRequest/>

U.S. Coast Guard, District 11, LA-LB Sector

Captain of the Port (COTP)

Email: d11-SMB-SectorLALB-WWM@uscg.mil

- A) The Permittee shall notify the U.S. Coast Guard, Commander, 11th Coast Guard District (dpw) and the U.S. Coast Guard, Sector LA-LB (COTP) (contact information shown above), not less than 14 calendar days prior to commencing work and as project information changes. The notification shall be provided by email with at least the following information, transmitted as an attached Word or PDF file:
- 1) Project description including the type of operation (i.e. dredging, diving, construction, etc).
 - 2) Location of operation, including Latitude / Longitude (NAD 83).
 - 3) Work start and completion dates and the expected duration of operations. The U.S. Coast Guard needs to be notified if these dates change.
 - 4) Vessels involved in the operation (name, size and type).
 - 5) VHF-FM radio frequencies monitored by vessels on scene.
 - 6) Point of contact and 24 -hour phone number.
 - 7) Potential hazards to navigation.
 - 8) Chart number for the area of operation.
 - 9) Recommend the following language be used in the Local Notice to Mariners: "Mariners are urged to transit at their slowest safe speed to minimize wake, and proceed with caution after passing arrangements have been made."
- B) The Permittee and its contractor(s) shall not remove, relocate, obstruct, willfully damage, make fast to, or interfere with any aids to navigation defined at 33 C.F.R. chapter I, subchapter C, part 66. Not less than 30 calendar days in

advance of operating any equipment adjacent to any aids to navigation that require relocation or removal, the Permittee shall notify, in writing, the Eleventh U.S. Coast Guard District and the Corps Regulatory Division. The Permittee and its contractor(s) are prohibited from relocating or removing any aids to navigation until authorized to do so by the Corps Regulatory Division and the U.S. Coast Guard.

- C) The Permittee is prohibited from establishing private aids to navigation in navigable waters of the United States until authorized to do so by the Corps Regulatory Division and the U.S. Coast Guard. Should the Permittee determine the work requires the temporary placement and use of private aids to navigation in navigable waters of the United States, the Permittee shall submit a request in writing to the Corps Regulatory Division and the U.S. Coast Guard.
 - D) The COTP may modify the deployment of marine construction equipment or mooring systems to safeguard navigation during project construction. The Permittee shall direct questions concerning lighting, equipment placement, and mooring to the appropriate COTP.
9. COMMENCEMENT AND COMPLETION NOTIFICATION: The Permittee shall notify the Corps Regulatory Division of the date of commencement of work in navigable waters of the United States (within 10 calendar days prior to the start of construction) and completion of the activity (within 10 calendar days following the end of construction) using the enclosed forms.
10. POST-CONSTRUCTION AS-BUILT SURVEY(S): Within 30 calendar days of completion of the project authorized by this permit, the Permittee shall conduct a post-project as-built survey indicating the location of all new structures and their features, or the modification of structures and their features, or post-dredge hydrographic surveys, within navigable waters. Within 45 calendar days of completion of the project, the Permittee shall forward a copy of the survey, as well as a copy of this permit, to the Corps Regulatory Division (via email at: Eric.R.Sweeney@usace.army.mil), and to the National Oceanic and Atmospheric Administration, Marine Charting Division for updating nautical charts (via email at: ocs.ndb@noaa.gov) Post-project surveys/as-built plans should be provided electronically in two formats: .pts (xyz) and one of, .pdf or GIS. Include the following header metadata: project name, surveyor's name and company, area surveyed (acres), type of survey method, date of survey, geographic control points (for example: latitude/longitude, plane coordinates), geographic coordinate system (use NAD83), geographic projection, units (use US Survey Feet), and tide gage location. For all subsurface structures and dredge projects include elevation (z coordinate) datum indicated as a negative below MLLW, and also indicate the survey system and bin sizes as appropriate.

This verification is valid through **March 14, 2026**. If on March 14, 2026 you have commenced or are under contract to commence the permitted activity you will have an

additional twelve (12) months to complete the activity under the present NWP terms and conditions. However, if I discover noncompliance or unauthorized activities associated with the permitted activity I may request the use of discretionary authority in accordance with procedures in 33 CFR § 330.4(e) and 33 CFR § 330.5(c) or (d) to modify, suspend, or revoke this specific verification at an earlier date. Additionally, at the national level the Chief of Engineers, any time prior to March 14, 2026, may choose to modify, suspend, or revoke the nationwide use of a NWP after following procedures set forth in 33 CFR § 330.5. It is incumbent upon you to comply with all of the terms and conditions of this NWP verification and to remain informed of any change to the NWPs.

A general permit does not grant any property rights or exclusive privileges. Also, it does not authorize any injury to the property or rights of others or authorize interference with any existing or proposed Federal project. Furthermore, it does not obviate the need to obtain other Federal, State, or local authorizations required by law.

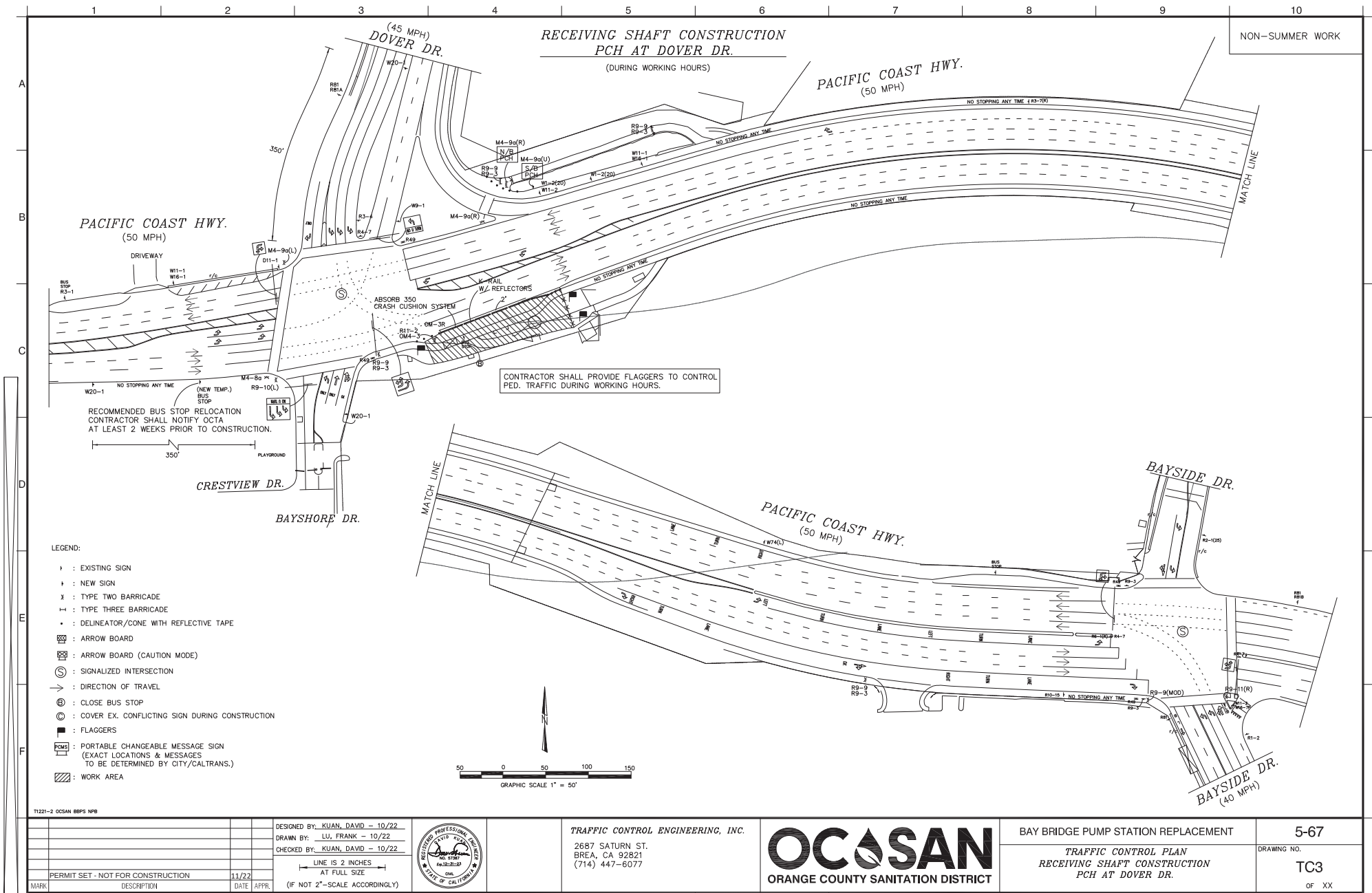
Thank you for participating in the regulatory program. If you have any questions, contact me at 760-602-4837 or via email at Eric.R.Sweeney@usace.army.mil. Please help me to evaluate and improve the regulatory experience for others by completing the customer survey form at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

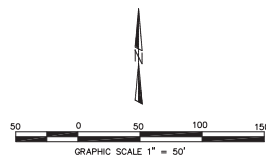
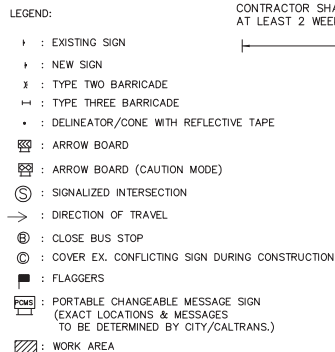
Eric R. Sweeney
Senior Project Manager
Orange and Riverside Counties Section
South Coast Branch
Regulatory Division

Enclosures

	1	2	3	4	5	6	7	8	9	10
A										
B	SIGN: (ALL NEW SIGNS SHALL BE RETROREFLECTORIZED AND OF STANDARD SIZE. WORK AREA WARNING SIGNS SHALL BE ORANGE SIGN FACE.)									
C	M4-8a END DETOUR M4-9a(L/R)(U) PED./BIKE DETOUR (LEFT/RIGHT)(U)									
D	NEW SIGNS:									
E	SC11(BIKE) C20(L/R) C20(BIKE) C27 C30 W1-2(L/R) W1-6 W3-3 W4-2 W9-1(L/R) W9-2 W11-1 W11-2 W12-1 W16-1 W16-7P W20-1 W74(L/R) R1-1 R1-2 R2-1 R3-1 R3-7 R4-4 R4-7 R9-3 R9-3bP(L/R) R9-9 R9-9(MOD) R9-10 R9-11 R11-2 R15-3(MOD) R49 R61 R81 OM-3L/R OM4-3 BIKE LANE CLOSED (CA Code) LEFT/RIGHT LANE CLOSED AHEAD (CA Code) BIKE LANE CLOSED AHEAD (CA Code) OPEN TRENCH (CA Code) LANE CLOSED (CA Code) CURVE SIGN (LEFT/RIGHT) SINGLE HEAD ARROW SIGN SIGNAL AHEAD LANE REDUCTION TRANSITION SIGN RIGHT/LEFT LANE ENDS LANE ENDS MERGE LEFT BICYCLE SYMBOL SIGN PEDESTRIAN SYMBOL SIGN DOUBLE ARROW SIGN SHARE THE ROAD SUPPLEMENTAL ARROW PLAQUE ROAD WORK AHEAD THRU TRAFFIC MERGE LEFT/RIGHT (CA Code) STOP YIELD SPEED LIMIT SIGN NO RIGHT TURN RIGHT LANE MUST TURN RIGHT BEGIN RIGHT TURN LANE/YIELD TO BIKE KEEP RIGHT NO PEDESTRIAN SYMBOL SIGN USE CROSSWALK (LEFT/RIGHT) SIDEWALK CLOSED SIDEWALK CLOSED AHEAD SIDEWALK CLOSED USE OTHER SIDE SIDEWALK CLOSED AHEAD CROSS HERE ROAD CLOSED BUSES EXEMPT NO PED CROSSING, USE CROSSWALK (CA Code) LANE-USE CONTROL SIGN (CA Code) BIKE LANE (CA Code) TYPE 3 OBJECT MARKER (LEFT/RIGHT, ORANGE) END OF ROADWAY MARKER W1-6(L): W4-2(R): W11-1: W12-1: W16-1: W20-1: SC11(BIKE): C20(BIKE): C20(R): C27: C30: OM4-3: R3-7(L): R3-7(R): R4-4: R9-3: R9-9: R9-9(MOD): R9-10: R9-11: R11-2: R15-3(MOD): OM-3R: M4-9a(R): M4-9a(U): M4-8a:									



(DURING NON-WORKING HOURS)



T1221-2 OCSAN BBPS NPB

		DESIGNED BY: <u>KUAN, DAVID</u> - 10/22			TRAFFIC CONTROL ENGINEERING, INC. 2687 SATURN ST. BREA, CA 92821 (714) 447-6077		BAY BRIDGE PUMP STATION REPLACEMENT	5-67
		DRAWN BY: <u>LU, FRANK</u> - 10/22					TRAFFIC CONTROL PLAN RECEIVING SHAFT CONSTRUCTION PCH AT DOVER DR.	DRAWING NO.
		CHECKED BY: <u>KUAN, DAVID</u> - 10/22					TC4	OF XX
PERMIT SET - NOT FOR CONSTRUCTION		11/22	LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"=SCALE ACCORDINGLY)					
MARK	DESCRIPTION	DATE	APPR.					

SEWER FM CONNECTIONS PCH AT DOVER DR.

WORKING HOURS :
WEEK NIGHT : 8PM - 6AM

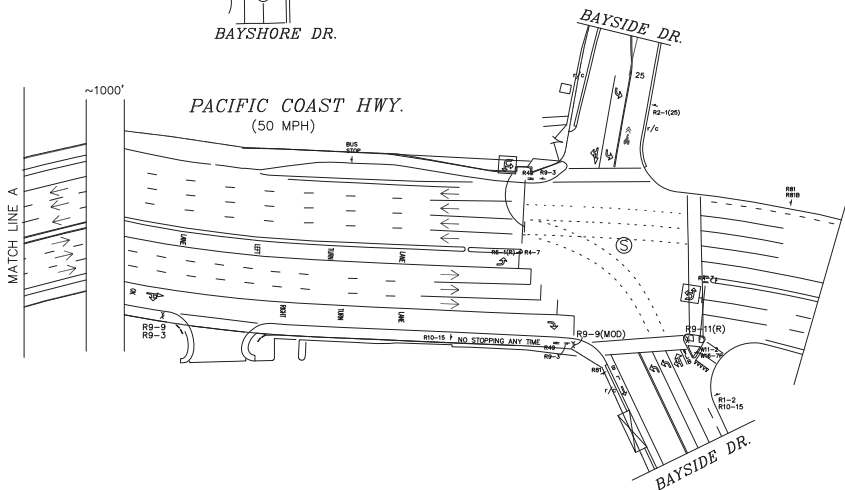
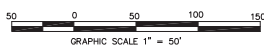
PACIFIC COAST HWY.
(50 MPH)

DOVER DR.
MATCH LINE B. SEE SHEET TC6

CONTRACTOR SHALL PROVIDE FLAGGERS TO CONTROL
PED. TRAFFIC DURING WORKING HOURS.

ALL OPEN EXCAVATIONS SHALL BE BACK-FILLED OR STEEL-PLATED
(WITH RECESSED AND ANTI-SKID PLATING) OUTSIDE THE WORKING HOURS,
TRAFFIC AND ROADWAYS SHALL BE RESTORED TO NORMAL CONDITIONS
DURING NON-WORKING HOURS.

- LEGEND:
- EXISTING SIGN
 - NEW SIGN
 - TYPE TWO BARRICADE
 - TYPE THREE BARRICADE
 - DELINEATOR/CONE WITH REFLECTIVE TAPE
 - ARROW BOARD
 - ARROW BOARD (CAUTION MODE)
 - SIGNALIZED INTERSECTION
 - DIRECTION OF TRAVEL
 - CLOSE BUS STOP
 - COVER EX. CONFLICTING SIGN DURING CONSTRUCTION
 - FLAGGERS
 - PORTABLE CHANGEABLE MESSAGE SIGN
(EXACT LOCATIONS & MESSAGES
TO BE DETERMINED BY CITY/CALTRANS.)
 - WORK AREA



T1221-2 OCSAN BPPS NPS

DESIGNED BY: KUAN, DAVID - 10/22	
DRAWN BY: LU, FRANK - 10/22	
CHECKED BY: KUAN, DAVID - 10/22	
LINE IS 2 INCHES AT FULL SIZE	
(IF NOT 2" SCALE, ACCORDINGLY)	
PERMIT SET - NOT FOR CONSTRUCTION	11/22
MARK	DESCRIPTION
DATE	APPR.

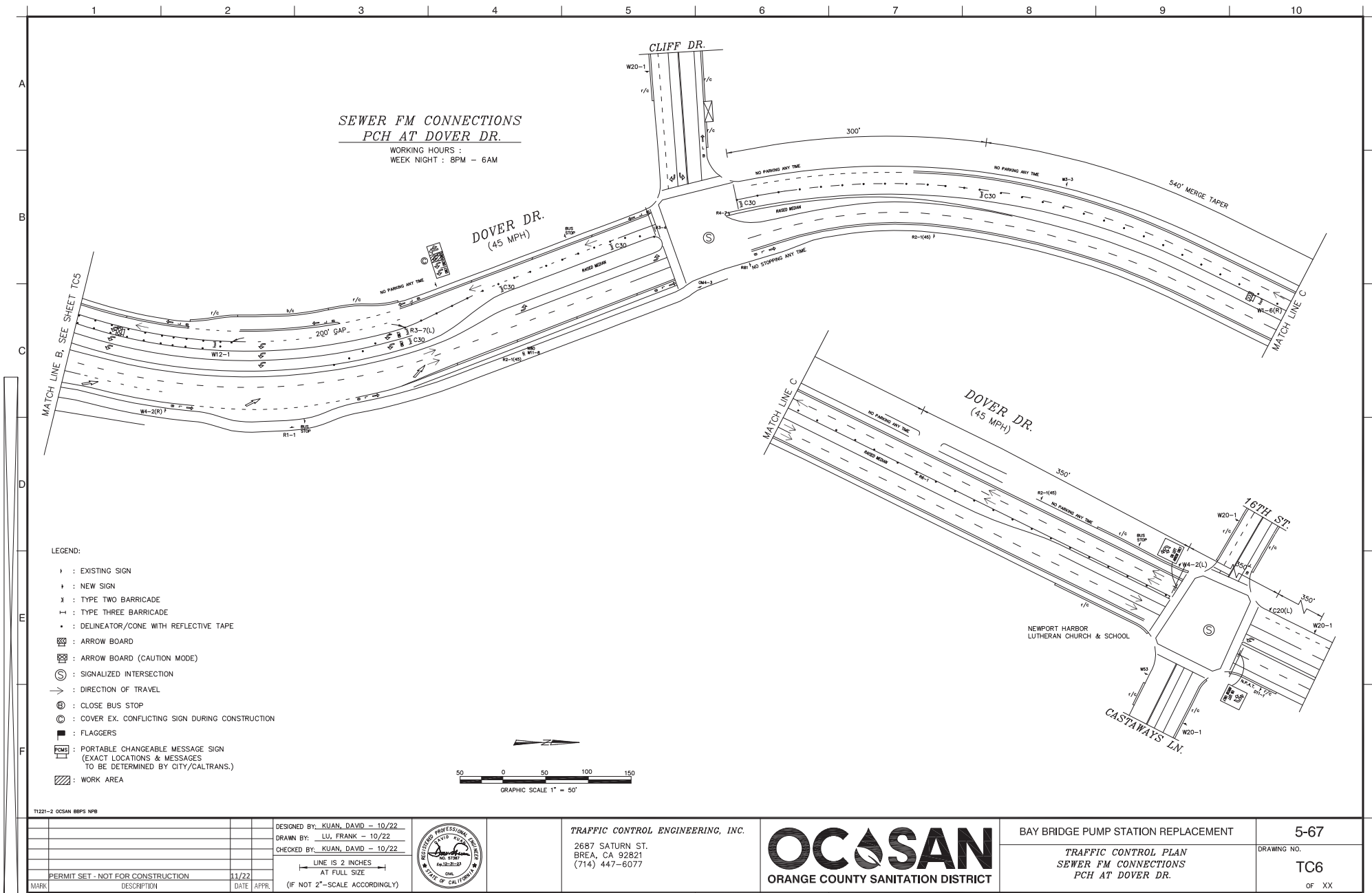


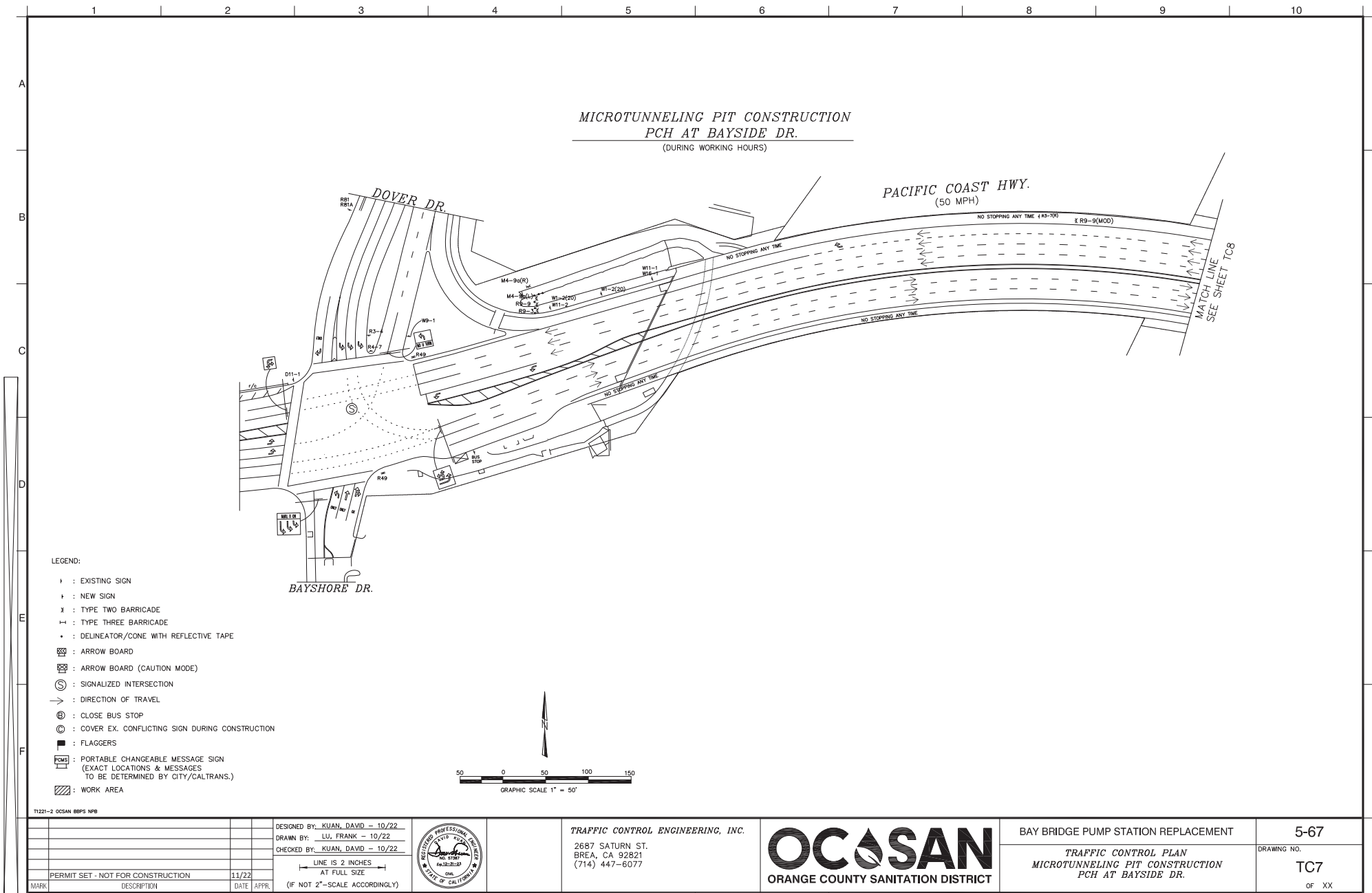
TRAFFIC CONTROL ENGINEERING, INC.
2687 SATURN ST.
BREA, CA 92821
(714) 447-6077

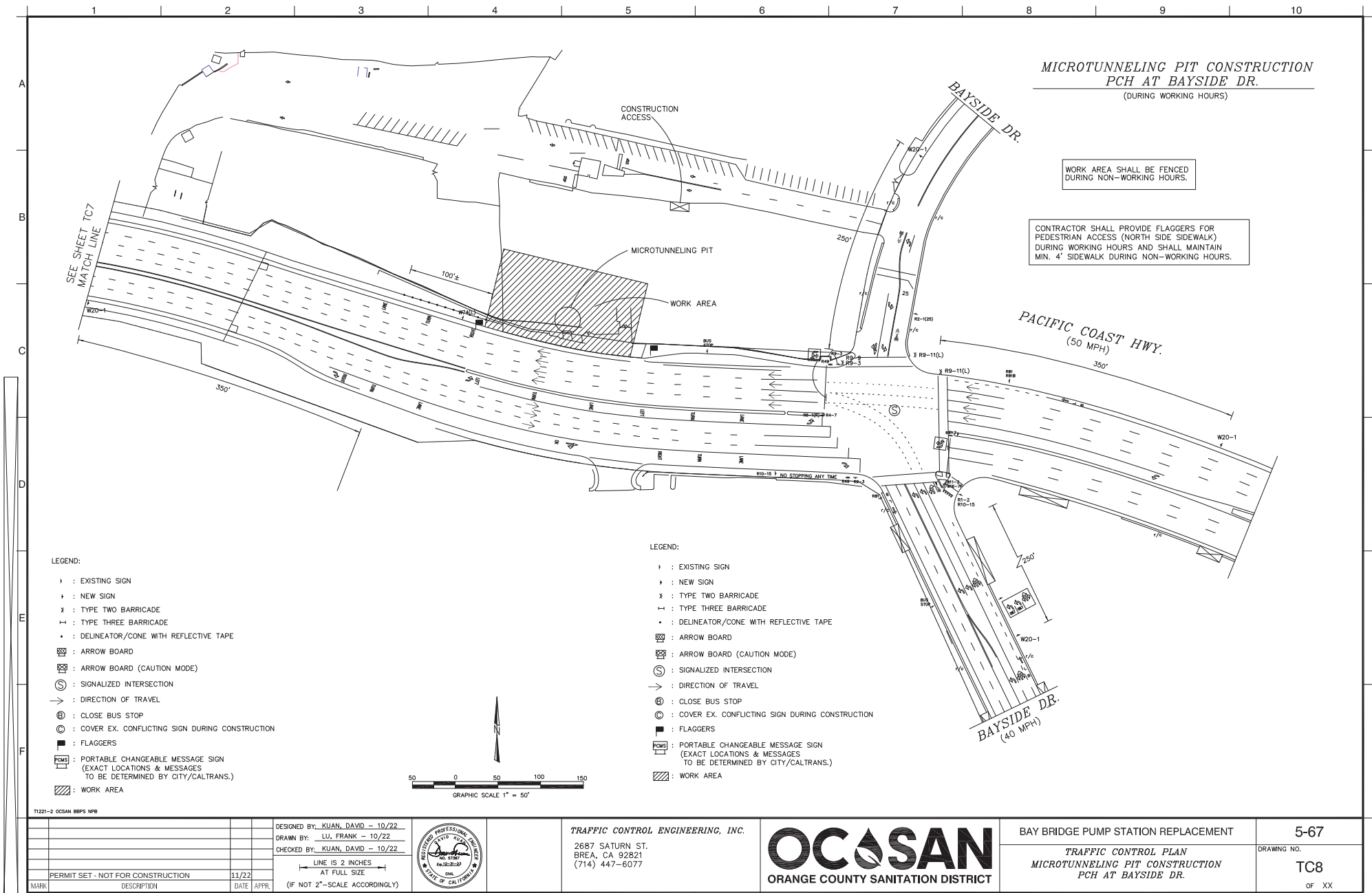


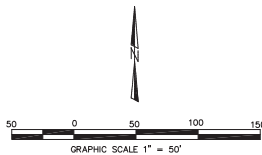
BAY BRIDGE PUMP STATION REPLACEMENT
TRAFFIC CONTROL PLAN
SEWER FM CONNECTIONS
PCH AT DOVER DR.

5-67
DRAWING NO.
TC5
OF XX

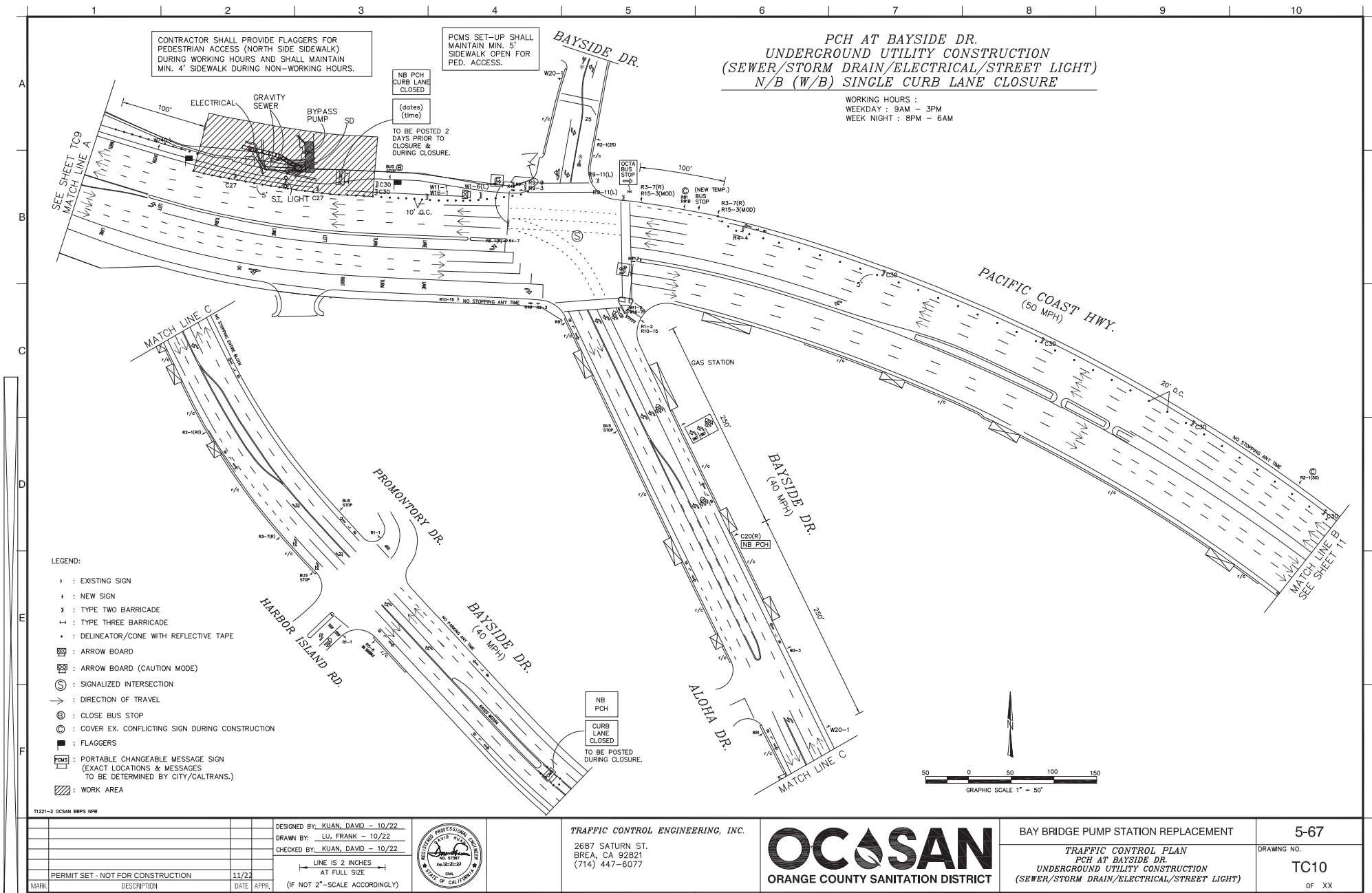








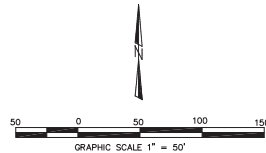
OC SAN
ORANGE COUNTY SANITATION DISTRICT



**PCH AT BAYSIDE DR.
UNDERGROUND UTILITY CONSTRUCTION
(SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)
N/B (W/B) SINGLE CURB LANE CLOSURE**

WORKING HOURS :
WEEKDAY : 9AM - 3PM
WEEK NIGHT : 8PM - 6AM

- LEGEND:**
- ⋈ : EXISTING SIGN
 - ⋈ : NEW SIGN
 - X : TYPE TWO BARRICADE
 - ⋈ : TYPE THREE BARRICADE
 - : DELINEATOR/CONE WITH REFLECTIVE TAPE
 - ⬆ : ARROW BOARD
 - ⬆ : ARROW BOARD (CAUTION MODE)
 - ⊙ : SIGNALIZED INTERSECTION
 - ➔ : DIRECTION OF TRAVEL
 - ⊙ : CLOSE BUS STOP
 - ⊙ : COVER EX. CONFLICTING SIGN DURING CONSTRUCTION
 - ⬆ : FLAGGERS
 - ⬆ : PORTABLE CHANGEABLE MESSAGE SIGN
(EXACT LOCATIONS & MESSAGES
TO BE DETERMINED BY CITY/CALTRANS.)
 - ▨ : WORK AREA



11221-2 OCSAN BBPS NPS

DESIGNED BY: KUAN, DAVID - 10/22
DRAWN BY: LU, FRANK - 10/22
CHECKED BY: KUAN, DAVID - 10/22



TRAFFIC CONTROL ENGINEERING, INC.
2687 SATURN ST.
BREA, CA 92821
(714) 447-6077



BAY BRIDGE PUMP STATION REPLACEMENT
TRAFFIC CONTROL PLAN
PCH AT BAYSIDE DR.
UNDERGROUND UTILITY CONSTRUCTION
(SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)

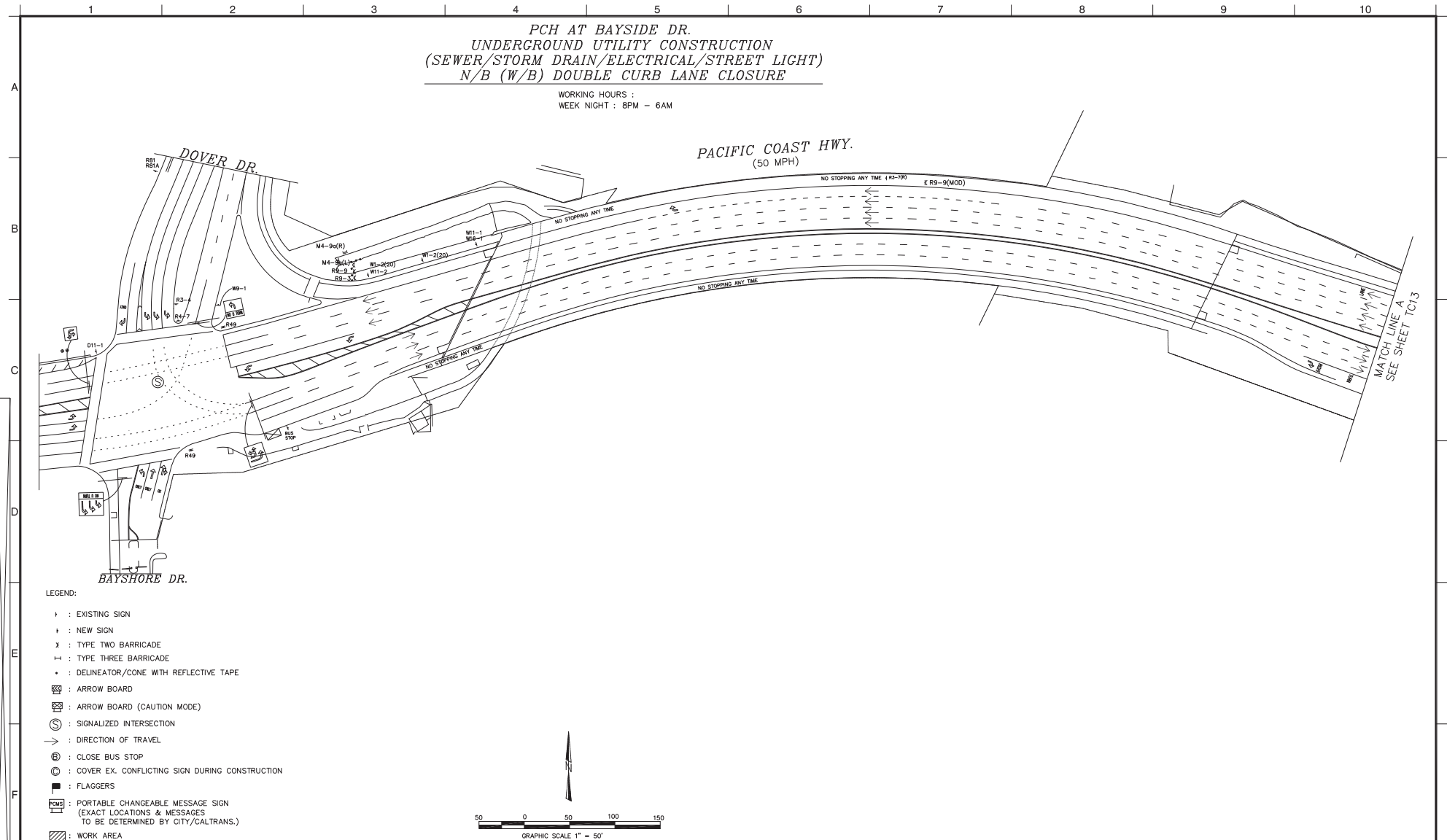
5-67
DRAWING NO.
TC11
OF XX

MARK	DESCRIPTION	DATE	APPR.
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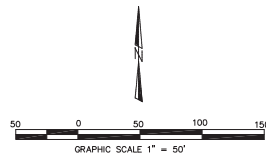
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE, ACCORDINGLY)

**PCH AT BAYSIDE DR.
UNDERGROUND UTILITY CONSTRUCTION
(SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)
N/B (W/B) DOUBLE CURB LANE CLOSURE**

WORKING HOURS :
WEEK NIGHT : 8PM - 6AM



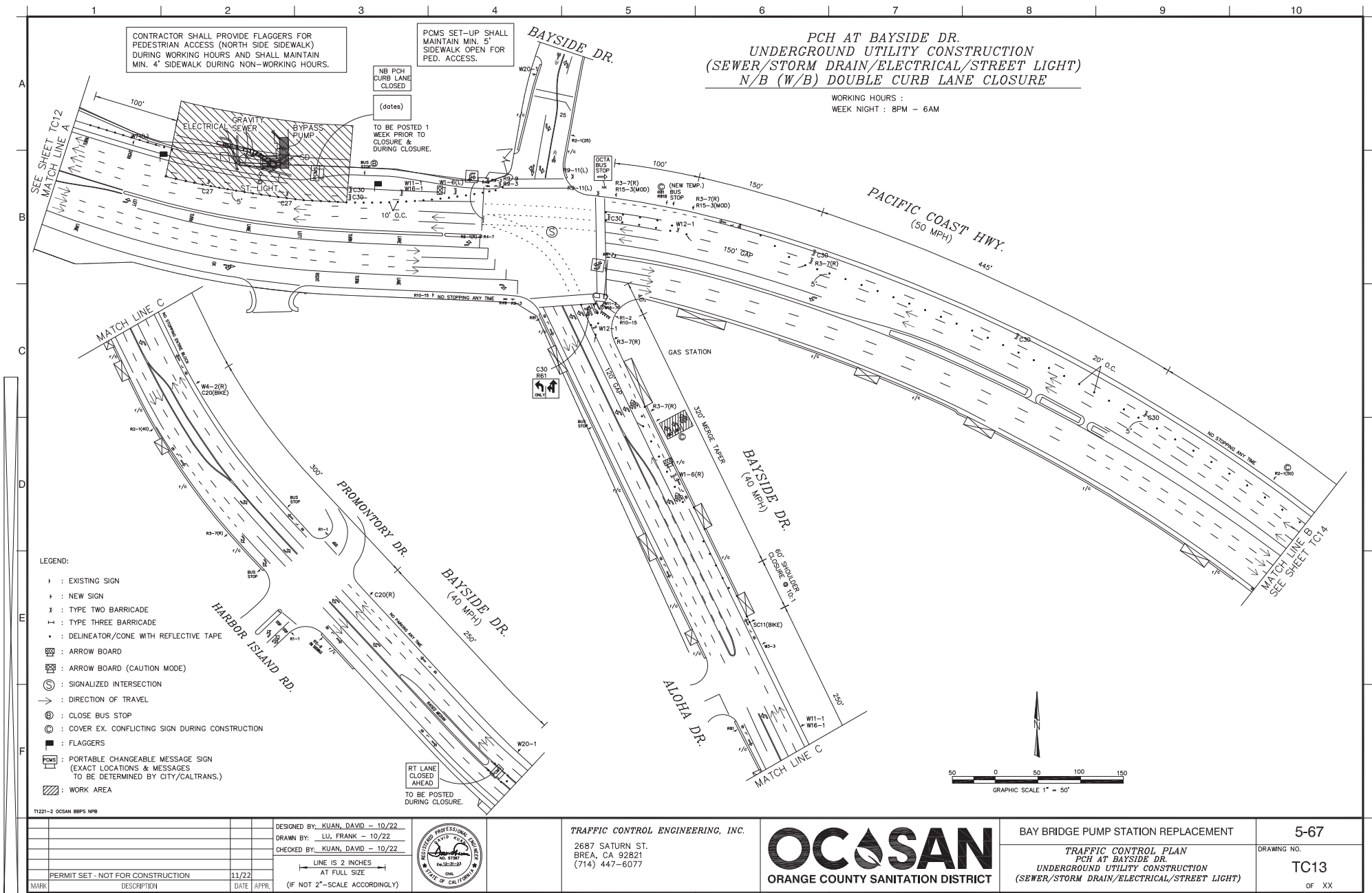
- LEGEND:
- ✚ : EXISTING SIGN
 - ✚ : NEW SIGN
 - X : TYPE TWO BARRICADE
 - ⌋ : TYPE THREE BARRICADE
 - : DELINEATOR/CONE WITH REFLECTIVE TAPE
 - ☒ : ARROW BOARD
 - ☒ : ARROW BOARD (CAUTION MODE)
 - ⊙ : SIGNALIZED INTERSECTION
 - : DIRECTION OF TRAVEL
 - ⊙ : CLOSE BUS STOP
 - ⊙ : COVER EX. CONFLICTING SIGN DURING CONSTRUCTION
 - : FLAGGERS
 - ☒ : PORTABLE CHANGEABLE MESSAGE SIGN (EXACT LOCATIONS & MESSAGES TO BE DETERMINED BY CITY/CALTRANS.)
 - ▨ : WORK AREA



T1221-2 OCSAN BBPS NPS

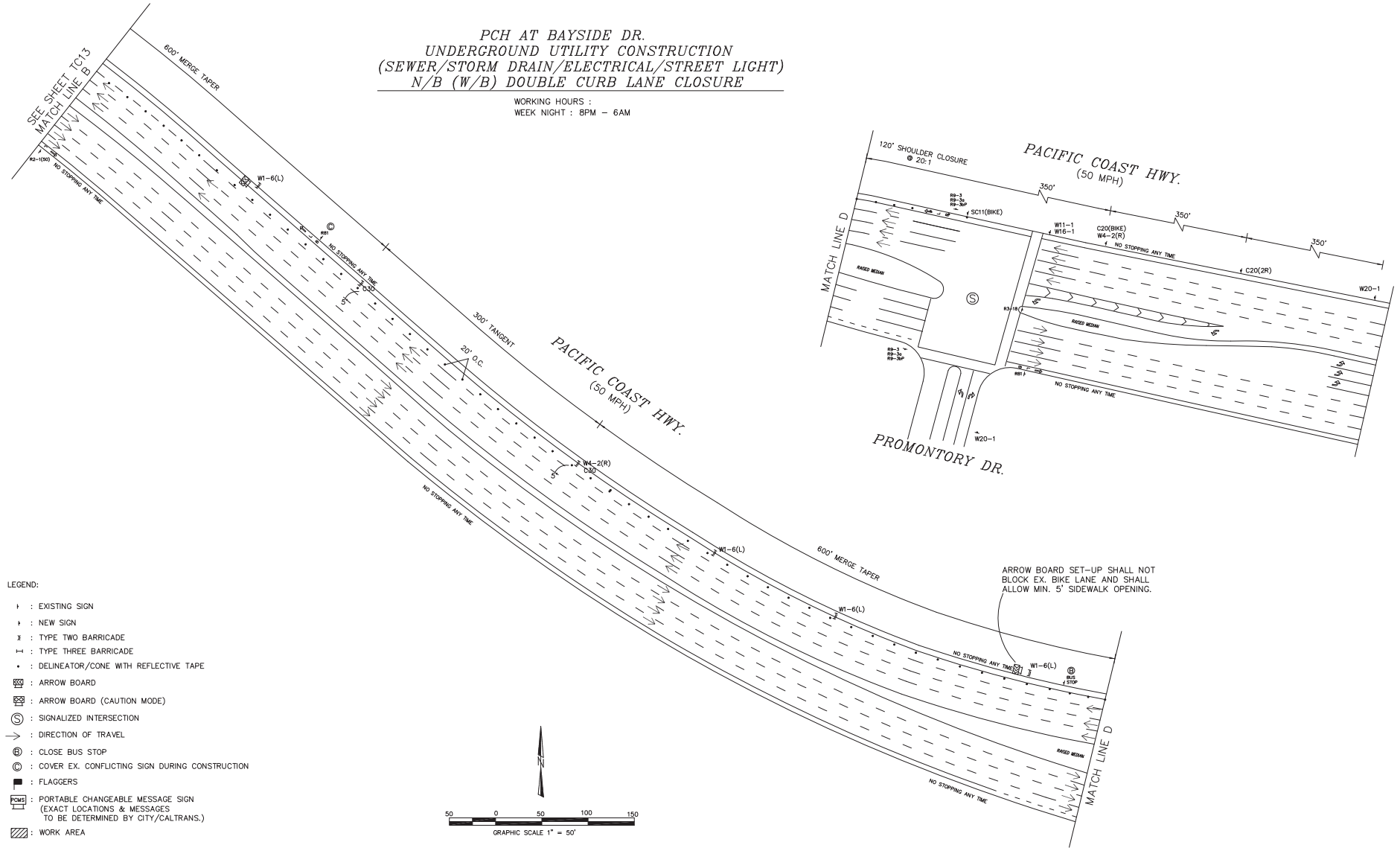
		DESIGNED BY: KUAN, DAVID - 10/22			TRAFFIC CONTROL ENGINEERING, INC. 2687 SATURN ST. BREA, CA 92821 (714) 447-6077		BAY BRIDGE PUMP STATION REPLACEMENT	5-67
		DRAWN BY: LU, FRANK - 10/22					TRAFFIC CONTROL PLAN PCH AT BAYSIDE DR.	DRAWING NO.
		CHECKED BY: KUAN, DAVID - 10/22					UNDERGROUND UTILITY CONSTRUCTION (SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)	TC12
		LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"=SCALE ACCORDINGLY)						OF XX
PERMIT SET - NOT FOR CONSTRUCTION		11/22						
MARK	DESCRIPTION	DATE	APPR.					

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

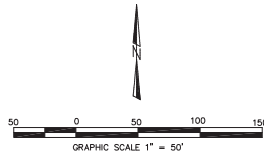


**PCH AT BAYSIDE DR.
UNDERGROUND UTILITY CONSTRUCTION
(SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)
N/B (W/B) DOUBLE CURB LANE CLOSURE**

WORKING HOURS :
WEEK NIGHT : 8PM - 6AM



- LEGEND:**
- ⋈ : EXISTING SIGN
 - ⋈ : NEW SIGN
 - X : TYPE TWO BARRICADE
 - ⋈ : TYPE THREE BARRICADE
 - : DELINEATOR/CONE WITH REFLECTIVE TAPE
 - AB : ARROW BOARD
 - AB : ARROW BOARD (CAUTION MODE)
 - ⊙ : SIGNALIZED INTERSECTION
 - : DIRECTION OF TRAVEL
 - ⊙ : CLOSE BUS STOP
 - ⊙ : COVER EX. CONFLICTING SIGN DURING CONSTRUCTION
 - FL : FLAGGERS
 - PCMS : PORTABLE CHANGEABLE MESSAGE SIGN
(EXACT LOCATIONS & MESSAGES
TO BE DETERMINED BY CITY/CALTRANS.)
 - ▨ : WORK AREA



11221-2 OCSAN BBPS NPB

DESIGNED BY: KUAN, DAVID - 10/22	
DRAWN BY: LU, FRANK - 10/22	
CHECKED BY: KUAN, DAVID - 10/22	
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE, ACCORDINGLY)	
PERMIT SET - NOT FOR CONSTRUCTION	11/22
MARK	DESCRIPTION
DATE	APPR.



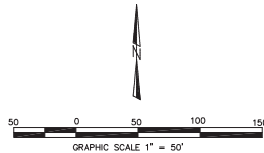
TRAFFIC CONTROL ENGINEERING, INC.
2687 SATURN ST.
BREA, CA 92821
(714) 447-6077



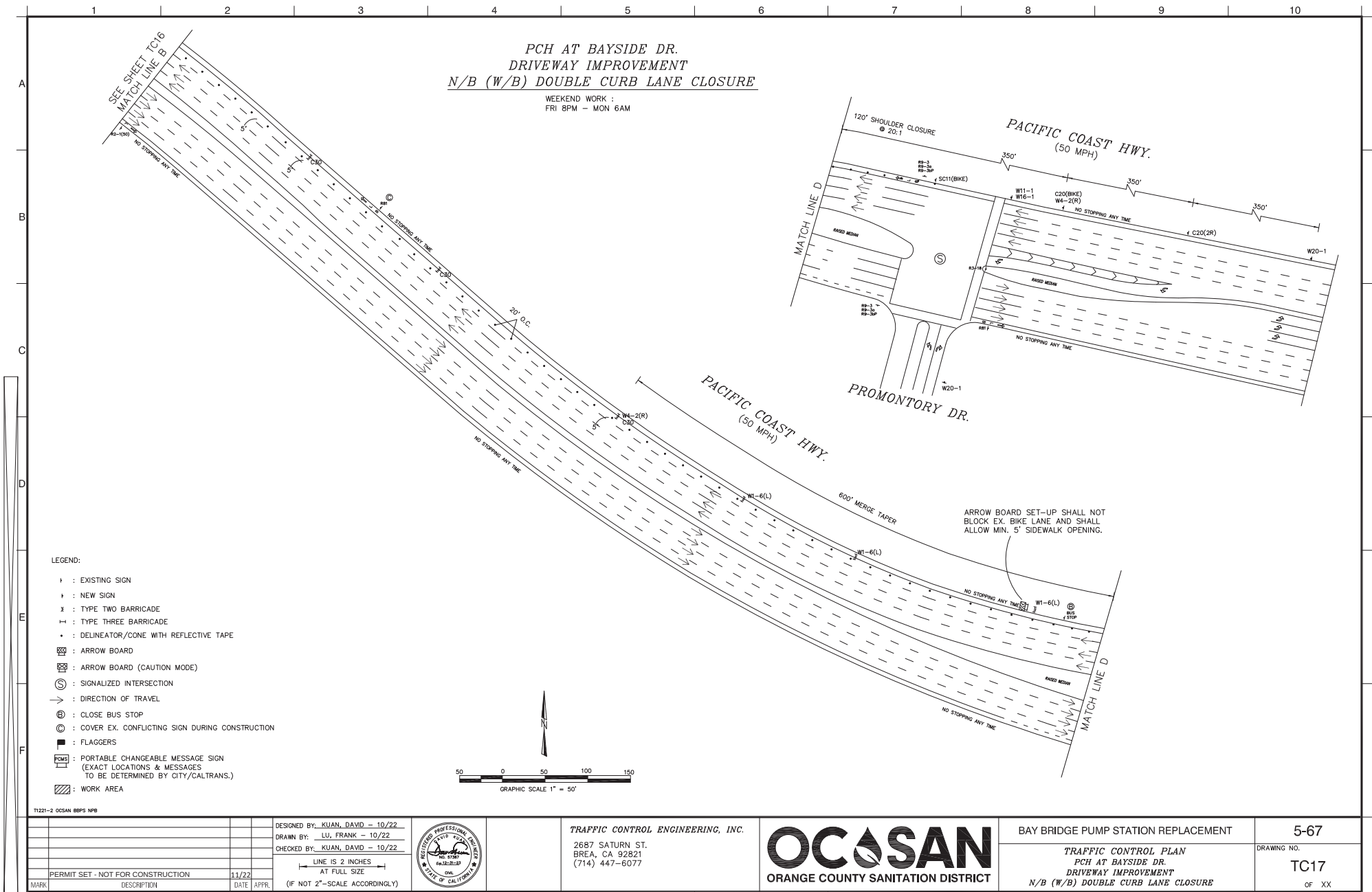
BAY BRIDGE PUMP STATION REPLACEMENT
TRAFFIC CONTROL PLAN
PCH AT BAYSIDE DR.
UNDERGROUND UTILITY CONSTRUCTION
(SEWER/STORM DRAIN/ELECTRICAL/STREET LIGHT)

5-67
DRAWING NO.
TC14
OF XX

WEEKEND WORK :
FRI 8PM – MON 6AM



OC SAN
ORANGE COUNTY SANITATION DISTRICT





-  WORK AREA
-  SIDEWALK CLOSED
-  PEDESTRIAN PATH

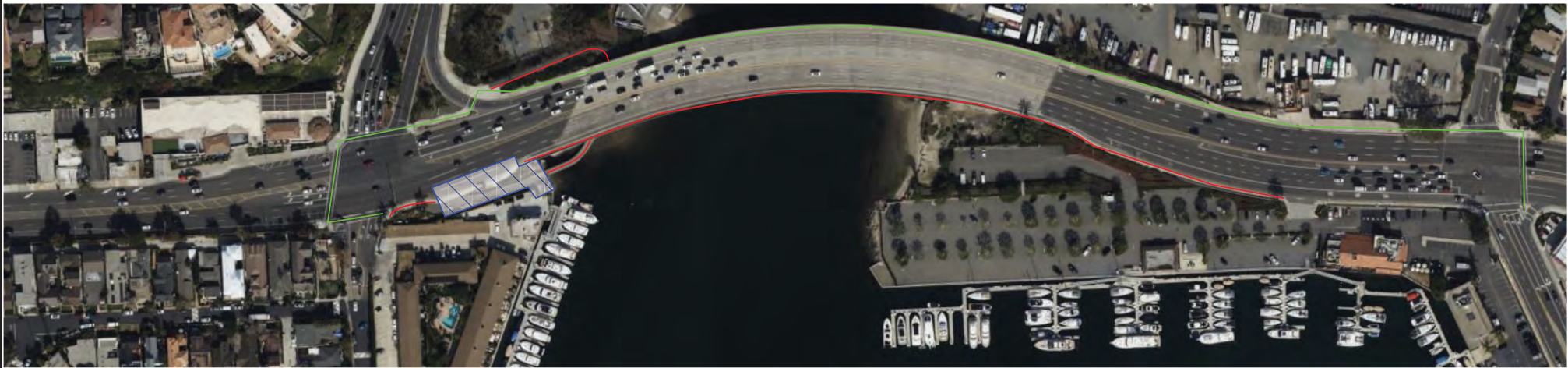


5-67 Bay Bridge Pump Station
Traffic Control Plan

Pedestrian Routing
Receiving Shaft Construction
PCH at Dover Dr.

2023-08-28

Figure 3



-  WORK AREA
-  SIDEWALK CLOSED
-  PEDESTRIAN PATH

	5-67 Bay Bridge Pump Station Traffic Control Plan	Pedestrian and Bike Routing Sewer FM Connections PCH at Dover Dr.	2023-08-08
			Figure 4



WORK AREA



SIDEWALK CLOSED



PEDESTRIAN PATH



WORK AREA



SIDEWALK CLOSED



PEDESTRIAN PATH

Working Hours:
Weekday: 6 AM - 2 PM
Week Night: 8 PM- 6 AM
No lane closure 2 PM - 8 PM on weekdays.



5-67 Bay Bridge Pump Station Traffic Control Plan

Pedestrian Routing
Underground Utility Construction
(Single Lane Closure)
PCH at Bayside Dr.

2023-08-28

Figure 6



WORK AREA



SIDEWALK CLOSED



PEDESTRIAN PATH

Working Hours:
Sunday through Thursday: 9 PM- 6 AM



5-67 Bay Bridge Pump Station Traffic Control Plan

Pedestrian Routing
Underground Utility Construction
(Double Lane Closure)
PCH at Bayside Dr.

2023-08-08

Figure 7



WORK AREA



SIDEWALK CLOSED



PEDESTRIAN PATH

Working Hours:
Weekend Work: Friday 8 PM to Monday 6 AM



5-67 Bay Bridge Pump Station Traffic Control Plan

Pedestrian Routing
Driveway Improvement
(Double Lane Closure)
PCH at Bayside Dr.

2023-08-08

Figure 8

DRAFT Erosion and Sediment Control Plan (ESCP)

06/13/2022

Project Description

<u>Project Name:</u> 5-67 Bay Bridge Pump Station Replacement	<u>Project Manager:</u> Harmik Aghanian, PE
<u>Project Location:</u> Newport Beach, CA	<u>Phone:</u> 213-797-5285
<u>Nature of Project:</u> Updating/expanding sanitary sewer pump station and micro-tunneling to run new pipe under the Newport Bay Channel	
<u>Annual rainfall for the project area:</u> 12 inches (https://www.bestplaces.net/climate/city/california/newport_beach)	
<u>Amount of soil disturbance for the Project:</u> 0.38 acres (limits of disturbance)	

Construction Activities Include: ☒ Concrete work ☒ Demolition ☒ Excavation/Trenching ☒ Grading
☒ Material/Stockpile Management ☒ Pavement work ☐ Other:

Unique Site Features:

- ☐ Biological Assessment has been prepared for the project
☐ Soil disturbance on slopes could result in high soil erosion potential (slope $\geq 2:1$)
☒ Adjacent to sensitive habitat, including wetlands or 303(d) listed surface water bodies (☒ 100 feet)
Receiving water: Newport Bay Channel

Project Schedule:

Start of soil disturbing activities:	05/06/2024
End of soil disturbing activities:	06/23/2028
End of construction:	10/13/2028

Minimum BMPs/ESCP Notes

1. In case of emergency, call owner at (714) 593-7327.
2. A stand-by crew for emergency work shall be available at all times during the rainy season (October 1 to April 15). Necessary materials shall be available on-site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain is imminent.
3. Erosion control devices may be removed when approved by the building official if the grading operation has progressed to the point where they are no longer required.
4. Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of slope at the conclusion of each working day. All loose soils and debris that may create a potential hazard to off-site property shall be stabilized or removed from the site on a daily basis.
5. All silt and debris shall be removed from all devices within 24 hours after each rainstorm and be disposed of properly.
6. A guard shall be posted on the site whenever the depth of water in any device exceeds 2 feet. The device shall be drained or pumped dry within 24 hours after each rainstorm. Pumping and draining of all basins and drainage devices must comply with the appropriate BMP for dewatering operations.
7. The placement of additional devices to reduce erosion damage and contain pollutants within the site is left to the discretion of the field engineer. Additional devices as needed shall be installed to retain sediments and other pollutants on site.
8. Install sediment filter in existing catch basins and protect with wattles/weighted socks during construction.
9. Desilting basins may not be removed or made inoperable between November 1 and April 15 of the following year without the approval of the building official.
10. Storm water pollution and erosion control devices are to be modified, as needed, as the project progresses. The design and placement of these devices is the responsibility of the field engineer. Plans representing changes must be submitted for approval if requested by the building official.

California Coastal Commission

5-23-0115

Arcadis U.S.

Exhibit 6

Page 1 of 5

11. Every effort shall be made to eliminate the discharge of non-storm water from the project site at all times.
12. Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
13. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
14. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not contaminate the soils and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
15. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on-site until they can be disposed of as solid waste.
16. Developers/contractors are responsible to inspect all erosion control devices and BMPs are installed and functioning properly if there is a 40% chance of quarter inch or more of predicted precipitation, and after actual precipitation. A construction site inspection checklist and inspection log shall be maintained at the project site at all times and available for review by the building official (copies of the self-inspection checklist and inspection logs are available upon request).
17. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
18. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
19. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
20. Homeowner to routinely clean all catch basins and drain lines of debris.
21. Additional BMPs will be implemented as deemed necessary by city inspectors.

Concrete Washout

Concrete work will be conducted during the 5-67 Pump Station project, any washout material will be properly captured and disposed of per CASQA Fact Sheet NS-12 Concrete Curing, NS-13 Concrete Finishing, and WM-8 Concrete Waste Management.

Stockpile/Material Storage Areas

Saturated soil from excavations will be temporarily stockpiled on-site until it is dry enough to truck offsite. All other material will be directly hauled offsite.

Portable Sanitation Facility

A portable sanitation facility will be staged with the work area perimeter. The facility will be provided with secondary containment and will be secured to prevent tipping. Any waste generated onsite will be hauled offsite.

Dewatering Operations

Dewatering may be performed within excavations. All water removed as part of dewatering will be piped directly into the sanitary sewer and per Specification 02220 Dewatering. Dewatering of excavated soil may be performed on a limited basis. Wastewater generated from soil dewatering will be contained and capture captured before also being piped directly into the sanitary sewer – it will not be allowed to sheet flow across the ground surface.

Vehicle and Equipment Maintenance/Fueling

Vehicle and equipment washing will not be allowed on-site. Vehicle and equipment maintenance/fueling will be conducted in a designated area that is equipped with appropriate spill containment supplies (drip pans, oil-absorbing pads, etc). Use of loose clay adsorbent (“kitty litter”) is discouraged.

BMP Inspections, Maintenance, and Repair

BMPs will be inspected once a week and prior to and after rain events, unless directed otherwise by the Project Team. A Construction Site Inspection Checklist will be provided by the Contractor. In the event that deficiencies in BMPs are found during the inspection, the cause of the failure will be determined, and the BMP will be repaired or replaced.

Discharge Reporting

If a discharge occurs or if the Project receives a written notice or order from any regulatory agency, contact the Project Manager first to ensure that all OC San and Arcadis spill response measures are followed as required.

CPM after hours contact number is XXX-XX-XXXX.

Training

The Erosion and Sediment Control Inspector (ESCI) assigned to this Project is:

<u>Name:</u> Tim J. Rumbolz, QSP	<u>Phone:</u> 408-797-2009
<u>Company:</u> Arcadis U.S., Inc.	<u>Address:</u> 6296 San Ignacio Ave., Suite C&D, San Jose, CA

The ESCI will have primary responsibility for the implementation, maintenance, and inspection of the ESCP.

Post-Construction Storm Water Management

Upon completion of construction within the project area, all temporary BMPs will be removed. All construction equipment will be demobilized and removed from the site. Each disturbed area will be returned to original conditions (whether vegetated or hardscaped) to achieve final stabilization. A final site inspection will be conducted to ensure that all disturbed soil areas have been stabilized with vegetation or paved per project specifications. A Final Site Inspection Checklist is provided in *Attachment F*.

Best Management Practices (BMP)

Checklist (Select BMPs that apply to this project)

Erosion Control

- ☒ EC-1, Scheduling
- ☐ EC-2, Preservation of Existing Vegetation
- ☐ EC-3, Hydraulic Mulch
- ☐ EC-4, Hydroseeding*
- ☐ EC-5, Soil Binders
- ☒ EC-6, Straw Mulch*
- ☒ EC-7, Geotextiles, Plastic Covers, and Erosion Control Blankets/Mats
- ☐ EC-8, Wood Mulch
- ☒ EC-9, Earth Dikes and Drainage Swales
- ☐ EC-10, Velocity Dissipation Devices
- ☐ EC-11, Slope Drains
- ☐ EC-12, Streambank Stabilization
- ☐ EC-14, Compost Blankets
- ☐ EC-15, Soil Preparation / Roughening
- ☐ EC-16, Non-Vegetative Stabilization

Sediment Control

- ☐ SE-1, Silt Fence
- ☐ SE-2, Sediment Basin
- ☐ SE-3, Sediment Trap
- ☐ SE-4, Check Dam
- ☒ SE-5, Fiber Rolls*
- ☒ SE-6, Gravel Bag Berm
- ☒ SE-7, Street Sweeping and Vacuuming
- ☐ SE-8, Sandbag Barrier
- ☐ SE-9, Straw Bale Barrier*

- ☒ SE-10, Storm Drain Inlet Protection
- ☐ SE-11, Active Treatment Systems
- ☐ SE-12, Temporary Silt Dike
- ☒ SE-13, Compost Socks and Berms
- ☐ SE-14, Biofilter Bags

Tracking Control

- ☒ TC-1, Stabilized Construction Entrance/Exit
- ☐ TC-2, Stabilized Construction Roadway
- ☐ TC-3, Entrance / Outlet Tire Wash

Wind Erosion Control

- ☒ WE-1, Wind Erosion Control

Non-Storm Water

- ☒ NS-1, Water Conservation Practices
- ☒ NS-2, Dewatering Operations
- ☒ NS-3, Paving and Grinding Operations
- ☐ NS-4, Temporary Stream Crossing
- ☒ NS-5, Clean Water Diversion
- ☐ NS-6, Illicit Connection / Discharge
- ☒ NS-7, Potable Water / Irrigation
- ☐ NS-8, Vehicle and Equipment Cleaning

- ☒ NS-9, Vehicle & Equipment Fueling
- ☒ NS-10, Vehicle and Equipment Maintenance
- ☐ NS-11, Pile Driving Operations
- ☒ NS-12, Concrete Curing
- ☒ NS-13, Concrete Finishing
- ☐ NS-14, Material Over Water
- ☒ NS-15, Demolition Adjacent to Water
- ☐ NS-16, Temporary Batch Plants

Waste Management and Materials Pollution Control

- ☒ WM-1, Material Delivery and Storage
- ☒ WM-2, Material Use
- ☒ WM-3, Stockpile Management
- ☒ WM-4, Spill Prevention and Control
- ☒ WM-5, Solid Waste Management
- ☒ WM-6, Hazardous Materials/Waste Management
- ☐ WM-7, Contaminated Soil Management
- ☒ WM-8, Concrete Waste Management
- ☒ WM-9, Sanitary/Septic Waste Management
- ☒ WM-10, Liquid Waste Management

*Seed mixtures/straw used for erosion control must be certified weed free. Check with an Arcadis biologist whether special seed mixes are required for your geography.

